

# ALMANAC LVIII TRANSITS VISIBLE FROM NEPTUNE IN CE

The almanac LVIII contains a list of transits visible from Neptune from the 1st millennium CE to the 125th millennium CE.

During the period of 250 000 years, the total number of transits visible from Neptune is 218 049 transits visible from Neptune (76 531 transits of Mercury, 63 576 transits of Venus, 33 187 transits of Earth, 33 172 transits of Moon, 10 702 transits of Mars, 754 transits of Jupiter, 125 transits of Saturn, 2 transits of Uranus).

## 1ST MILLENNIUM CE

**This is a list of transits visible from Neptune in the 1st millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	26-07-09 10:04 J		1730743.81	1730743.92	1730744.09	0.0089	0.0076	
Moon	26-07-09 13:55 J		1730743.95	1730744.08	1730744.26	0.0089	0.0072	*
Moon	27-07-11 20:38 J		1731111.18	1731111.36	1731111.59	0.0089	0.0053	
Earth	27-07-12 00:00 J		1731111.28	1731111.50	1731111.72	0.0089	0.0049	*
Earth	28-07-13 13:12 J		1731478.79	1731479.05	1731479.30	0.0089	0.0023	
Moon	28-07-13 15:07 J		1731478.87	1731479.13	1731479.40	0.0089	0.0020	*
Moon	29-07-16 00:57 J		1731846.29	1731846.54	1731846.80	0.0089	0.0002	
Earth	29-07-16 02:09 J		1731846.34	1731846.59	1731846.86	0.0089	0.0004	*
Moon	30-07-18 14:24 J		1732213.86	1732214.10	1732214.36	0.0089	0.0033	
Earth	30-07-18 14:52 J		1732213.89	1732214.12	1732214.38	0.0089	0.0030	*
Earth	31-07-21 03:35 J		1732581.47	1732581.65	1732581.88	0.0089	0.0056	
Moon	31-07-21 05:31 J		1732581.53	1732581.73	1732581.94	0.0089	0.0052	*
Moon	32-07-22 14:38 J		1732949.05	1732949.11	1732949.20	0.0089	0.0085	
Earth	32-07-22 17:16 J		1732949.12	1732949.22	1732949.32	0.0089	0.0081	*
Mars	51-06-06 12:00 J		1739841.76	1739842.00	1739842.28	0.0089	0.0042	
Mars	53-04-30 10:19 J		1740535.69	1740535.93	1740536.19	0.0089	0.0045	
Mercury	62-03-20 02:09 J		1743781.59	1743781.59	1743781.60	0.0089	0.0089	
Mercury	62-06-16 03:21 J		1743869.61	1743869.64	1743869.71	0.0089	0.0083	
Mercury	62-09-12 05:16 J		1743957.65	1743957.72	1743957.79	0.0089	0.0075	
Mercury	62-12-09 06:28 J		1744045.69	1744045.77	1744045.87	0.0089	0.0068	
Mercury	63-03-07 07:55 J		1744133.74	1744133.83	1744133.94	0.0089	0.0061	
Mercury	63-06-03 09:21 J		1744221.80	1744221.89	1744222.01	0.0089	0.0054	
Mercury	63-08-30 11:02 J		1744309.85	1744309.96	1744310.08	0.0089	0.0046	
Mercury	63-11-26 12:28 J		1744397.90	1744398.02	1744398.15	0.0089	0.0039	
Mercury	64-02-22 13:55 J		1744485.96	1744486.08	1744486.22	0.0089	0.0032	

Mercury	64-05-20 15:21 J	1744574.02	1744574.14	1744574.28	0.0089	0.0025
Mercury	64-08-16 16:47 J	1744662.07	1744662.20	1744662.34	0.0089	0.0018
Mercury	64-11-12 18:28 J	1744750.13	1744750.27	1744750.40	0.0089	0.0010
Mercury	65-02-08 19:55 J	1744838.19	1744838.33	1744838.46	0.0089	0.0003
Mercury	65-05-07 21:21 J	1744926.25	1744926.39	1744926.52	0.0089	0.0005
Mercury	65-08-03 22:47 J	1745014.31	1745014.45	1745014.58	0.0089	0.0012
Mercury	65-10-31 00:00 J	1745102.37	1745102.50	1745102.64	0.0089	0.0019
Mercury	66-01-27 01:26 J	1745190.44	1745190.56	1745190.69	0.0089	0.0026
Mercury	66-04-25 02:52 J	1745278.50	1745278.62	1745278.75	0.0089	0.0033
Mercury	66-07-22 04:19 J	1745366.56	1745366.68	1745366.80	0.0089	0.0040
Mercury	66-10-18 05:31 J	1745454.63	1745454.73	1745454.85	0.0089	0.0048
Mercury	67-01-14 06:57 J	1745542.69	1745542.79	1745542.91	0.0089	0.0055
Mercury	67-04-12 08:24 J	1745630.76	1745630.85	1745630.95	0.0089	0.0061
Mercury	67-07-09 09:50 J	1745718.83	1745718.91	1745719.00	0.0089	0.0068
Mercury	67-10-05 11:02 J	1745806.90	1745806.96	1745807.04	0.0089	0.0076
Mercury	68-01-01 12:28 J	1745894.98	1745895.02	1745895.08	0.0089	0.0083
Mercury	68-03-29 13:55 J	1745983.08	1745983.08	1745983.10	0.0089	0.0089
Venus	68-08-17 04:04 J	1746123.60	1746123.67	1746123.79	0.0089	0.0081
Venus	69-03-30 17:31 J	1746349.10	1746349.23	1746349.40	0.0089	0.0065
Venus	69-11-11 07:12 J	1746574.62	1746574.80	1746574.98	0.0089	0.0049
Venus	70-06-24 20:09 J	1746800.15	1746800.34	1746800.56	0.0089	0.0034
Venus	71-02-05 09:50 J	1747025.70	1747025.91	1747026.13	0.0089	0.0017
Venus	71-09-18 23:16 J	1747251.25	1747251.47	1747251.69	0.0089	0.0002
Venus	72-05-01 12:14 J	1747476.80	1747477.01	1747477.23	0.0089	0.0014
Venus	72-12-13 01:26 J	1747702.36	1747702.56	1747702.78	0.0089	0.0030
Venus	73-07-26 14:38 J	1747927.94	1747928.11	1747928.31	0.0089	0.0046
Venus	74-03-09 04:04 J	1748153.52	1748153.67	1748153.84	0.0089	0.0061
Venus	74-10-20 17:02 J	1748379.12	1748379.21	1748379.34	0.0089	0.0077
Saturn	88-04-25 23:16 J	1753314.91	1753315.47	1753316.09	0.0089	0.0038
Earth	108-01-06 15:21 J	1760509.99	1760510.14	1760510.31	0.0089	0.0069

Moon	108-01-06 18:28 J	1760510.12	1760510.27	1760510.45	0.0089	0.0068 *
Moon	109-01-07 23:16 J	1760877.27	1760877.47	1760877.70	0.0089	0.0045
Earth	109-01-08 01:26 J	1760877.36	1760877.56	1760877.80	0.0089	0.0044 *
Earth	110-01-10 11:45 J	1761244.76	1761244.99	1761245.25	0.0089	0.0019
Moon	110-01-10 13:26 J	1761244.82	1761245.06	1761245.33	0.0089	0.0019 *
Earth	111-01-12 22:19 J	1761612.18	1761612.43	1761612.69	0.0089	0.0007
Moon	111-01-12 22:19 J	1761612.19	1761612.43	1761612.68	0.0089	0.0007 *
Moon	112-01-15 07:12 J	1761979.55	1761979.80	1761980.04	0.0089	0.0033
Earth	112-01-15 08:09 J	1761979.62	1761979.84	1761980.09	0.0089	0.0033 *
Earth	113-01-16 18:14 J	1762347.09	1762347.26	1762347.48	0.0089	0.0058
Moon	113-01-16 20:24 J	1762347.18	1762347.35	1762347.55	0.0089	0.0058 *
Moon	114-01-19 01:12 J	1762714.49	1762714.55	1762714.66	0.0089	0.0084
Earth	114-01-19 04:47 J	1762714.63	1762714.70	1762714.80	0.0089	0.0083 *
Jupiter	130-07-20 17:45 J	1768740.77	1768741.24	1768741.76	0.0088	0.0043
Mars	133-04-25 22:47 J	1769751.14	1769751.45	1769751.77	0.0088	0.0032
Mars	135-03-22 20:24 J	1770447.14	1770447.35	1770447.60	0.0088	0.0063
Mercury	145-03-01 23:16 J	1774079.43	1774079.47	1774079.56	0.0088	0.0082
Mercury	145-05-29 02:52 J	1774167.52	1774167.62	1774167.73	0.0088	0.0072
Mercury	145-08-25 06:00 J	1774255.63	1774255.75	1774255.89	0.0088	0.0063
Mercury	145-11-21 09:07 J	1774343.75	1774343.88	1774344.04	0.0088	0.0054
Mercury	146-02-17 12:43 J	1774431.87	1774432.03	1774432.19	0.0088	0.0044
Mercury	146-05-16 15:50 J	1774519.99	1774520.16	1774520.34	0.0088	0.0035
Mercury	146-08-12 18:57 J	1774608.12	1774608.29	1774608.48	0.0088	0.0026
Mercury	146-11-08 22:19 J	1774696.25	1774696.43	1774696.62	0.0088	0.0017
Mercury	147-02-05 01:40 J	1774784.38	1774784.57	1774784.76	0.0088	0.0007
Mercury	147-05-04 05:02 J	1774872.52	1774872.71	1774872.90	0.0088	0.0002
Mercury	147-07-31 08:09 J	1774960.66	1774960.84	1774961.03	0.0088	0.0012
Mercury	147-10-27 11:16 J	1775048.80	1775048.97	1775049.17	0.0088	0.0022
Mercury	148-01-23 14:38 J	1775136.94	1775137.11	1775137.30	0.0088	0.0031
Mercury	148-04-20 18:00 J	1775225.09	1775225.25	1775225.43	0.0088	0.0041



Mercury	148-07-17 21:21 J	1775313.24	1775313.39	1775313.55	0.0088	0.0050
Mercury	148-10-14 00:28 J	1775401.40	1775401.52	1775401.68	0.0088	0.0060
Mercury	149-01-10 04:04 J	1775489.56	1775489.67	1775489.79	0.0088	0.0069
Mercury	149-04-08 07:12 J	1775577.73	1775577.80	1775577.90	0.0088	0.0079
Venus	150-10-02 10:19 J	1776119.87	1776119.93	1776120.05	0.0088	0.0080
Venus	151-05-15 23:16 J	1776345.34	1776345.47	1776345.64	0.0088	0.0065
Venus	151-12-27 12:00 J	1776570.83	1776571.00	1776571.20	0.0088	0.0050
Venus	152-08-09 00:43 J	1776796.34	1776796.53	1776796.75	0.0088	0.0035
Venus	153-03-22 13:40 J	1777021.86	1777022.07	1777022.29	0.0088	0.0020
Venus	153-11-03 02:24 J	1777247.38	1777247.60	1777247.82	0.0088	0.0005
Venus	154-06-16 15:07 J	1777472.91	1777473.13	1777473.35	0.0088	0.0010
Venus	155-01-28 03:50 J	1777698.46	1777698.66	1777698.88	0.0088	0.0025
Venus	155-09-10 16:33 J	1777924.00	1777924.19	1777924.40	0.0088	0.0040
Venus	156-04-23 05:16 J	1778149.56	1778149.72	1778149.90	0.0088	0.0055
Venus	156-12-04 18:00 J	1778375.13	1778375.25	1778375.39	0.0088	0.0070
Venus	157-07-18 06:28 J	1778600.74	1778600.77	1778600.85	0.0088	0.0085
Moon	190-07-08 16:33 J	1790644.14	1790644.19	1790644.29	0.0089	0.0085
Earth	190-07-08 19:12 J	1790644.29	1790644.30	1790644.37	0.0089	0.0088 *
Earth	191-07-11 08:38 J	1791011.69	1791011.86	1791012.06	0.0089	0.0062
Moon	191-07-11 09:50 J	1791011.76	1791011.91	1791012.12	0.0089	0.0066 *
Moon	192-07-12 21:50 J	1791379.18	1791379.41	1791379.65	0.0089	0.0033
Earth	192-07-12 22:04 J	1791379.19	1791379.42	1791379.66	0.0089	0.0036 *
Moon	193-07-15 10:33 J	1791746.68	1791746.94	1791747.21	0.0089	0.0013
Earth	193-07-15 11:16 J	1791746.71	1791746.97	1791747.23	0.0089	0.0010 *
Earth	194-07-18 00:14 J	1792114.26	1792114.51	1792114.77	0.0089	0.0016
Moon	194-07-18 02:09 J	1792114.36	1792114.59	1792114.85	0.0089	0.0020 *
Moon	195-07-20 10:19 J	1792481.71	1792481.93	1792482.18	0.0089	0.0039
Earth	195-07-20 13:26 J	1792481.84	1792482.06	1792482.30	0.0089	0.0042 *
Earth	196-07-22 02:24 J	1792849.45	1792849.60	1792849.78	0.0089	0.0068
Moon	196-07-22 05:31 J	1792849.60	1792849.73	1792849.91	0.0089	0.0071 *

Mars	215-01-19 23:45 J	1799605.39	1799605.49	1799605.65	0.0089	0.0081
Mars	216-12-13 20:09 J	1800299.05	1800299.34	1800299.64	0.0089	0.0005
Mercury	226-12-15 02:09 J	1803952.56	1803952.59	1803952.63	0.0089	0.0086
Mercury	227-03-13 03:35 J	1804040.59	1804040.65	1804040.72	0.0089	0.0078
Mercury	227-06-09 05:02 J	1804128.64	1804128.71	1804128.80	0.0089	0.0071
Mercury	227-09-05 06:43 J	1804216.69	1804216.78	1804216.88	0.0089	0.0064
Mercury	227-12-02 08:09 J	1804304.74	1804304.84	1804304.95	0.0089	0.0057
Mercury	228-02-28 09:35 J	1804392.79	1804392.90	1804393.02	0.0089	0.0049
Mercury	228-05-26 11:02 J	1804480.85	1804480.96	1804481.08	0.0089	0.0042
Mercury	228-08-22 12:28 J	1804568.90	1804569.02	1804569.15	0.0089	0.0035
Mercury	228-11-18 14:09 J	1804656.96	1804657.09	1804657.21	0.0089	0.0028
Mercury	229-02-14 15:21 J	1804745.01	1804745.14	1804745.28	0.0089	0.0021
Mercury	229-05-13 16:47 J	1804833.07	1804833.20	1804833.34	0.0089	0.0014
Mercury	229-08-09 18:28 J	1804921.13	1804921.27	1804921.40	0.0089	0.0007
Mercury	229-11-05 19:55 J	1805009.19	1805009.33	1805009.46	0.0089	0.0003
Mercury	230-02-01 21:07 J	1805097.25	1805097.38	1805097.52	0.0089	0.0009
Mercury	230-04-30 22:33 J	1805185.31	1805185.44	1805185.58	0.0089	0.0015
Mercury	230-07-28 00:00 J	1805273.37	1805273.50	1805273.63	0.0089	0.0022
Mercury	230-10-24 01:26 J	1805361.44	1805361.56	1805361.69	0.0089	0.0029
Mercury	231-01-20 02:52 J	1805449.50	1805449.62	1805449.74	0.0089	0.0037
Mercury	231-04-18 04:19 J	1805537.56	1805537.68	1805537.80	0.0089	0.0044
Mercury	231-07-15 05:45 J	1805625.63	1805625.74	1805625.85	0.0089	0.0051
Mercury	231-10-11 06:57 J	1805713.70	1805713.79	1805713.90	0.0089	0.0058
Mercury	232-01-07 08:24 J	1805801.77	1805801.85	1805801.95	0.0089	0.0065
Mercury	232-04-04 09:50 J	1805889.84	1805889.91	1805889.99	0.0089	0.0072
Mercury	232-07-01 11:16 J	1805977.91	1805977.97	1805978.03	0.0089	0.0079
Mercury	232-09-27 12:43 J	1806066.00	1806066.03	1806066.07	0.0089	0.0086
Venus	232-11-18 15:21 J	1806118.10	1806118.14	1806118.20	0.0089	0.0087
Venus	233-07-02 05:02 J	1806343.58	1806343.71	1806343.85	0.0089	0.0071
Venus	234-02-12 18:00 J	1806569.10	1806569.25	1806569.44	0.0089	0.0056

Venus	234-09-26 07:40 J	1806794.63	1806794.82	1806795.03	0.0089	0.0040
Venus	235-05-09 21:07 J	1807020.17	1807020.38	1807020.60	0.0089	0.0024
Venus	235-12-21 10:33 J	1807245.72	1807245.94	1807246.16	0.0089	0.0008
Venus	236-08-02 23:45 J	1807471.28	1807471.49	1807471.72	0.0089	0.0009
Venus	237-03-16 13:12 J	1807696.84	1807697.05	1807697.26	0.0089	0.0024
Venus	237-10-28 02:09 J	1807922.41	1807922.59	1807922.80	0.0089	0.0040
Venus	238-06-10 15:21 J	1808147.98	1808148.14	1808148.33	0.0089	0.0056
Venus	239-01-22 05:02 J	1808373.57	1808373.71	1808373.84	0.0089	0.0071
Venus	239-09-04 18:00 J	1808599.21	1808599.25	1808599.31	0.0089	0.0087
Moon	272-01-06 00:57 J	1820410.51	1820410.54	1820410.63	0.0089	0.0086
Earth	272-01-06 03:21 J	1820410.56	1820410.64	1820410.76	0.0089	0.0081 *
Earth	273-01-07 13:55 J	1820777.89	1820778.08	1820778.29	0.0089	0.0056
Moon	273-01-07 14:24 J	1820777.91	1820778.10	1820778.33	0.0089	0.0052 *
Earth	274-01-10 00:14 J	1821145.28	1821145.51	1821145.76	0.0089	0.0031
Moon	274-01-10 00:28 J	1821145.30	1821145.52	1821145.75	0.0089	0.0035 *
Moon	275-01-12 09:07 J	1821512.61	1821512.88	1821513.14	0.0089	0.0002
Earth	275-01-12 10:33 J	1821512.69	1821512.94	1821513.20	0.0089	0.0006 *
Earth	276-01-14 20:38 J	1821880.12	1821880.36	1821880.62	0.0089	0.0020
Moon	276-01-14 23:31 J	1821880.24	1821880.48	1821880.73	0.0089	0.0016 *
Moon	277-01-16 04:04 J	1822247.46	1822247.67	1822247.88	0.0089	0.0049
Earth	277-01-16 06:57 J	1822247.58	1822247.79	1822248.02	0.0089	0.0045 *
Earth	278-01-18 17:02 J	1822615.07	1822615.21	1822615.38	0.0089	0.0070
Moon	278-01-18 20:52 J	1822615.21	1822615.37	1822615.55	0.0089	0.0065 *
Mars	296-12-07 17:45 J	1829513.11	1829513.24	1829513.43	0.0088	0.0078
Mars	298-11-03 18:28 J	1830208.95	1830209.27	1830209.61	0.0088	0.0019
Mercury	309-08-30 19:26 J	1834162.29	1834162.31	1834162.36	0.0088	0.0086
Mercury	309-11-26 22:33 J	1834250.37	1834250.44	1834250.55	0.0088	0.0077
Mercury	310-02-23 01:40 J	1834338.47	1834338.57	1834338.71	0.0088	0.0068
Mercury	310-05-22 05:16 J	1834426.59	1834426.72	1834426.87	0.0088	0.0058
Mercury	310-08-18 08:24 J	1834514.71	1834514.85	1834515.02	0.0088	0.0049

Mercury	310-11-14 11:31 J	1834602.83	1834602.98	1834603.16	0.0088	0.0040
Mercury	311-02-10 15:07 J	1834690.95	1834691.13	1834691.31	0.0088	0.0030
Mercury	311-05-09 18:14 J	1834779.08	1834779.26	1834779.45	0.0088	0.0021
Mercury	311-08-05 21:35 J	1834867.21	1834867.40	1834867.59	0.0088	0.0012
Mercury	311-11-02 00:57 J	1834955.35	1834955.54	1834955.73	0.0088	0.0002
Mercury	312-01-29 04:04 J	1835043.49	1835043.67	1835043.86	0.0088	0.0008
Mercury	312-04-26 07:26 J	1835131.63	1835131.81	1835132.00	0.0088	0.0017
Mercury	312-07-23 10:47 J	1835219.77	1835219.95	1835220.13	0.0088	0.0026
Mercury	312-10-19 13:55 J	1835307.91	1835308.08	1835308.26	0.0088	0.0036
Mercury	313-01-15 17:31 J	1835396.06	1835396.23	1835396.39	0.0088	0.0045
Mercury	313-04-13 20:24 J	1835484.22	1835484.35	1835484.51	0.0088	0.0055
Mercury	313-07-10 23:31 J	1835572.38	1835572.48	1835572.63	0.0088	0.0065
Mercury	313-10-07 03:07 J	1835660.54	1835660.63	1835660.74	0.0088	0.0074
Mercury	314-01-03 06:14 J	1835748.73	1835748.76	1835748.84	0.0088	0.0084
Venus	315-01-03 23:02 J	1836114.42	1836114.46	1836114.52	0.0088	0.0085
Venus	315-08-17 12:00 J	1836339.87	1836340.00	1836340.13	0.0088	0.0070
Venus	316-03-30 00:00 J	1836565.35	1836565.50	1836565.69	0.0088	0.0056
Venus	316-11-10 12:43 J	1836790.85	1836791.03	1836791.24	0.0088	0.0041
Venus	317-06-24 01:26 J	1837016.37	1837016.56	1837016.79	0.0088	0.0026
Venus	318-02-04 14:24 J	1837241.89	1837242.10	1837242.33	0.0088	0.0011
Venus	318-09-18 03:21 J	1837467.42	1837467.64	1837467.86	0.0088	0.0005
Venus	319-05-01 15:50 J	1837692.95	1837693.16	1837693.38	0.0088	0.0020
Venus	319-12-13 04:19 J	1837918.49	1837918.68	1837918.90	0.0088	0.0035
Venus	320-07-25 17:02 J	1838144.04	1838144.21	1838144.41	0.0088	0.0050
Venus	321-03-08 05:45 J	1838369.61	1838369.74	1838369.91	0.0088	0.0065
Venus	321-10-19 18:28 J	1838595.20	1838595.27	1838595.38	0.0088	0.0080
Earth	355-07-10 18:43 J	1850912.15	1850912.28	1850912.43	0.0089	0.0074
Moon	355-07-10 18:28 J	1850912.15	1850912.27	1850912.44	0.0089	0.0072 *
Moon	356-07-12 06:00 J	1851279.53	1851279.75	1851279.98	0.0089	0.0050
Earth	356-07-12 07:26 J	1851279.61	1851279.81	1851280.05	0.0089	0.0049 *

Earth	357-07-14 20:38 J	1851647.12	1851647.36	1851647.62	0.0089	0.0023
Moon	357-07-14 23:02 J	1851647.22	1851647.46	1851647.71	0.0089	0.0020 *
Moon	358-07-17 06:43 J	1852014.51	1852014.78	1852015.04	0.0089	0.0001
Earth	358-07-17 10:04 J	1852014.66	1852014.92	1852015.18	0.0089	0.0003 *
Earth	359-07-19 23:02 J	1852382.22	1852382.46	1852382.71	0.0089	0.0029
Moon	359-07-20 02:24 J	1852382.37	1852382.60	1852382.86	0.0089	0.0032 *
Moon	360-07-21 08:09 J	1852749.66	1852749.84	1852750.08	0.0089	0.0052
Earth	360-07-21 12:00 J	1852749.81	1852750.00	1852750.22	0.0089	0.0055 *
Earth	361-07-24 01:12 J	1853117.44	1853117.55	1853117.66	0.0089	0.0080
Moon	361-07-24 04:04 J	1853117.61	1853117.67	1853117.78	0.0089	0.0084 *
Mars	380-07-29 09:07 J	1860062.63	1860062.88	1860063.17	0.0089	0.0034
Mars	382-06-23 05:16 J	1860756.51	1860756.72	1860756.99	0.0089	0.0052
Mercury	391-06-15 00:43 J	1864035.53	1864035.53	1864035.55	0.0089	0.0089
Mercury	391-09-11 02:09 J	1864123.55	1864123.59	1864123.65	0.0089	0.0082
Mercury	391-12-08 03:35 J	1864211.59	1864211.65	1864211.73	0.0089	0.0075
Mercury	392-03-05 05:02 J	1864299.63	1864299.71	1864299.81	0.0089	0.0068
Mercury	392-06-01 06:28 J	1864387.68	1864387.77	1864387.88	0.0089	0.0061
Mercury	392-08-28 08:09 J	1864475.74	1864475.84	1864475.95	0.0089	0.0053
Mercury	392-11-24 09:35 J	1864563.79	1864563.90	1864564.02	0.0089	0.0046
Mercury	393-02-20 11:02 J	1864651.84	1864651.96	1864652.09	0.0089	0.0038
Mercury	393-05-19 12:28 J	1864739.90	1864740.02	1864740.15	0.0089	0.0031
Mercury	393-08-15 14:09 J	1864827.96	1864828.09	1864828.22	0.0089	0.0024
Mercury	393-11-11 15:35 J	1864916.01	1864916.15	1864916.28	0.0089	0.0017
Mercury	394-02-07 17:02 J	1865004.07	1865004.21	1865004.34	0.0089	0.0010
Mercury	394-05-06 18:28 J	1865092.13	1865092.27	1865092.40	0.0089	0.0003
Mercury	394-08-02 19:55 J	1865180.19	1865180.33	1865180.46	0.0089	0.0005
Mercury	394-10-29 21:07 J	1865268.25	1865268.38	1865268.52	0.0089	0.0013
Mercury	395-01-25 22:33 J	1865356.31	1865356.44	1865356.58	0.0089	0.0019
Mercury	395-04-24 00:00 J	1865444.38	1865444.50	1865444.63	0.0089	0.0026
Mercury	395-07-21 01:26 J	1865532.44	1865532.56	1865532.69	0.0089	0.0033

Mercury	395-10-17 02:52 J	1865620.50	1865620.62	1865620.74	0.0089	0.0040
Mercury	396-01-13 04:04 J	1865708.57	1865708.67	1865708.80	0.0089	0.0048
Mercury	396-04-10 05:31 J	1865796.63	1865796.73	1865796.85	0.0089	0.0055
Mercury	396-07-07 06:57 J	1865884.70	1865884.79	1865884.90	0.0089	0.0062
Mercury	396-10-03 08:24 J	1865972.77	1865972.85	1865972.94	0.0089	0.0068
Mercury	396-12-30 09:50 J	1866060.85	1866060.91	1866060.99	0.0089	0.0075
Mercury	397-03-28 11:02 J	1866148.92	1866148.96	1866149.02	0.0089	0.0083
Mercury	397-06-24 12:43 J	1866237.03	1866237.03	1866237.04	0.0089	0.0089
Venus	397-10-03 15:50 J	1866338.07	1866338.16	1866338.29	0.0089	0.0078
Venus	398-05-17 05:16 J	1866563.58	1866563.72	1866563.90	0.0089	0.0062
Venus	398-12-28 18:57 J	1866789.11	1866789.29	1866789.48	0.0089	0.0046
Venus	399-08-11 08:24 J	1867014.65	1867014.85	1867015.06	0.0089	0.0030
Venus	400-03-23 21:35 J	1867240.19	1867240.40	1867240.63	0.0089	0.0015
Venus	400-11-04 11:16 J	1867465.75	1867465.97	1867466.19	0.0089	0.0003
Venus	401-06-18 00:28 J	1867691.31	1867691.52	1867691.74	0.0089	0.0018
Venus	402-01-29 13:40 J	1867916.87	1867917.07	1867917.28	0.0089	0.0034
Venus	402-09-12 02:52 J	1868142.45	1868142.62	1868142.81	0.0089	0.0050
Venus	403-04-25 16:04 J	1868368.03	1868368.17	1868368.33	0.0089	0.0066
Venus	403-12-07 05:02 J	1868593.64	1868593.71	1868593.82	0.0089	0.0082
Earth	437-01-07 01:55 J	1880678.43	1880678.58	1880678.75	0.0089	0.0068
Moon	437-01-07 03:07 J	1880678.47	1880678.63	1880678.80	0.0089	0.0066 *
Moon	438-01-09 10:04 J	1881045.72	1881045.92	1881046.17	0.0089	0.0045
Earth	438-01-09 12:14 J	1881045.80	1881046.01	1881046.24	0.0089	0.0043 *
Earth	439-01-11 22:47 J	1881413.20	1881413.45	1881413.70	0.0089	0.0018
Moon	439-01-12 01:26 J	1881413.32	1881413.56	1881413.81	0.0089	0.0017 *
Moon	440-01-14 05:31 J	1881780.48	1881780.73	1881780.99	0.0089	0.0005
Earth	440-01-14 09:07 J	1881780.63	1881780.88	1881781.14	0.0089	0.0007 *
Earth	441-01-15 19:26 J	1882148.07	1882148.31	1882148.55	0.0089	0.0032
Moon	441-01-15 22:47 J	1882148.22	1882148.45	1882148.69	0.0089	0.0033 *
Moon	442-01-18 02:24 J	1882515.41	1882515.60	1882515.79	0.0089	0.0056

Earth	442-01-18 05:31 J	1882515.55	1882515.73	1882515.94	0.0089	0.0057 *
Earth	443-01-20 15:21 J	1882883.07	1882883.14	1882883.26	0.0089	0.0082
Moon	443-01-20 17:45 J	1882883.17	1882883.24	1882883.35	0.0089	0.0083 *
Mars	462-06-17 15:21 J	1889970.84	1889971.14	1889971.49	0.0088	0.0026
Mars	464-05-13 14:38 J	1890666.93	1890667.11	1890667.33	0.0088	0.0071
Mercury	474-05-27 18:43 J	1894333.22	1894333.28	1894333.36	0.0088	0.0081
Mercury	474-08-23 21:50 J	1894421.32	1894421.41	1894421.53	0.0088	0.0072
Mercury	474-11-20 00:57 J	1894509.43	1894509.54	1894509.68	0.0088	0.0063
Mercury	475-02-16 04:04 J	1894597.54	1894597.67	1894597.84	0.0088	0.0054
Mercury	475-05-15 07:40 J	1894685.66	1894685.82	1894685.98	0.0088	0.0044
Mercury	475-08-11 10:47 J	1894773.79	1894773.95	1894774.13	0.0088	0.0035
Mercury	475-11-07 13:55 J	1894861.91	1894862.08	1894862.27	0.0088	0.0026
Mercury	476-02-03 17:31 J	1894950.04	1894950.23	1894950.41	0.0088	0.0016
Mercury	476-05-01 20:38 J	1895038.18	1895038.36	1895038.55	0.0088	0.0007
Mercury	476-07-29 00:00 J	1895126.31	1895126.50	1895126.69	0.0088	0.0003
Mercury	476-10-25 03:07 J	1895214.45	1895214.63	1895214.82	0.0088	0.0012
Mercury	477-01-21 06:14 J	1895302.59	1895302.76	1895302.96	0.0088	0.0022
Mercury	477-04-19 09:50 J	1895390.73	1895390.91	1895391.09	0.0088	0.0031
Mercury	477-07-16 12:57 J	1895478.88	1895479.04	1895479.22	0.0088	0.0041
Mercury	477-10-12 16:19 J	1895567.03	1895567.18	1895567.34	0.0088	0.0050
Mercury	478-01-08 19:26 J	1895655.19	1895655.31	1895655.46	0.0088	0.0060
Mercury	478-04-06 23:02 J	1895743.35	1895743.46	1895743.58	0.0088	0.0069
Mercury	478-07-04 02:09 J	1895831.52	1895831.59	1895831.69	0.0088	0.0079
Venus	479-11-18 23:45 J	1896334.39	1896334.49	1896334.61	0.0088	0.0076
Venus	480-07-01 12:28 J	1896559.87	1896560.02	1896560.18	0.0088	0.0061
Venus	481-02-12 01:26 J	1896785.37	1896785.56	1896785.75	0.0088	0.0046
Venus	481-09-25 13:55 J	1897010.88	1897011.08	1897011.29	0.0088	0.0031
Venus	482-05-09 02:38 J	1897236.40	1897236.61	1897236.83	0.0088	0.0016
Venus	482-12-20 15:21 J	1897461.92	1897462.14	1897462.36	0.0088	0.0001
Venus	483-08-03 04:04 J	1897687.45	1897687.67	1897687.89	0.0088	0.0014

Venus	484-03-15 16:47 J	1897912.99	1897913.20	1897913.41	0.0088	0.0029
Venus	484-10-27 05:31 J	1898138.54	1898138.73	1898138.92	0.0088	0.0044
Venus	485-06-09 17:45 J	1898364.10	1898364.24	1898364.42	0.0088	0.0060
Venus	486-01-21 06:28 J	1898589.68	1898589.77	1898589.91	0.0088	0.0075
Moon	519-07-10 02:24 J	1910812.52	1910812.60	1910812.73	0.0089	0.0082
Earth	519-07-10 04:19 J	1910812.64	1910812.68	1910812.77	0.0089	0.0086 *
Earth	520-07-11 17:02 J	1911180.05	1911180.21	1911180.43	0.0089	0.0061
Moon	520-07-11 20:24 J	1911180.20	1911180.35	1911180.54	0.0089	0.0065 *
Moon	521-07-14 03:21 J	1911547.40	1911547.64	1911547.89	0.0089	0.0031
Earth	521-07-14 06:43 J	1911547.54	1911547.78	1911548.03	0.0089	0.0035 *
Earth	522-07-16 19:40 J	1911915.07	1911915.32	1911915.59	0.0089	0.0010
Moon	522-07-16 23:31 J	1911915.23	1911915.48	1911915.74	0.0089	0.0013 *
Moon	523-07-19 05:31 J	1912282.49	1912282.73	1912282.99	0.0089	0.0021
Earth	523-07-19 08:52 J	1912282.62	1912282.87	1912283.14	0.0089	0.0016 *
Earth	524-07-20 21:50 J	1912650.19	1912650.41	1912650.64	0.0089	0.0042
Moon	524-07-21 00:28 J	1912650.29	1912650.52	1912650.77	0.0089	0.0039 *
Moon	525-07-23 08:38 J	1913017.73	1913017.86	1913018.03	0.0089	0.0071
Earth	525-07-23 10:33 J	1913017.80	1913017.94	1913018.13	0.0089	0.0068 *
Mars	544-03-13 20:52 J	1919826.22	1919826.37	1919826.55	0.0089	0.0073
Mars	546-02-05 17:31 J	1920519.95	1920520.23	1920520.53	0.0089	0.0013
Mercury	556-03-11 00:28 J	1924206.50	1924206.52	1924206.58	0.0089	0.0086
Mercury	556-06-07 02:24 J	1924294.54	1924294.60	1924294.67	0.0089	0.0078
Mercury	556-09-03 03:50 J	1924382.58	1924382.66	1924382.75	0.0089	0.0070
Mercury	556-11-30 05:16 J	1924470.63	1924470.72	1924470.82	0.0089	0.0063
Mercury	557-02-26 06:43 J	1924558.68	1924558.78	1924558.89	0.0089	0.0056
Mercury	557-05-25 08:24 J	1924646.73	1924646.85	1924646.96	0.0089	0.0049
Mercury	557-08-21 09:35 J	1924734.79	1924734.90	1924735.03	0.0089	0.0042
Mercury	557-11-17 11:02 J	1924822.84	1924822.96	1924823.10	0.0089	0.0035
Mercury	558-02-13 12:43 J	1924910.90	1924911.03	1924911.16	0.0089	0.0027
Mercury	558-05-12 14:09 J	1924998.96	1924999.09	1924999.22	0.0089	0.0020



Mercury	558-08-08 15:35 J	1925087.02	1925087.15	1925087.29	0.0089	0.0013
Mercury	558-11-04 17:02 J	1925175.08	1925175.21	1925175.35	0.0089	0.0006
Mercury	559-01-31 18:28 J	1925263.14	1925263.27	1925263.41	0.0089	0.0002
Mercury	559-04-29 19:55 J	1925351.20	1925351.33	1925351.47	0.0089	0.0009
Mercury	559-07-26 21:21 J	1925439.26	1925439.39	1925439.52	0.0089	0.0016
Mercury	559-10-22 22:47 J	1925527.32	1925527.45	1925527.58	0.0089	0.0023
Mercury	560-01-19 00:00 J	1925615.38	1925615.50	1925615.64	0.0089	0.0031
Mercury	560-04-16 01:26 J	1925703.45	1925703.56	1925703.69	0.0089	0.0037
Mercury	560-07-13 02:52 J	1925791.51	1925791.62	1925791.74	0.0089	0.0044
Mercury	560-10-09 04:19 J	1925879.58	1925879.68	1925879.80	0.0089	0.0051
Mercury	561-01-05 05:31 J	1925967.64	1925967.73	1925967.85	0.0089	0.0059
Mercury	561-04-03 06:57 J	1926055.71	1926055.79	1926055.89	0.0089	0.0066
Mercury	561-06-30 08:24 J	1926143.79	1926143.85	1926143.94	0.0089	0.0073
Mercury	561-09-26 09:50 J	1926231.86	1926231.91	1926231.98	0.0089	0.0079
Mercury	561-12-23 11:02 J	1926319.95	1926319.96	1926320.01	0.0089	0.0087
Venus	562-01-05 03:35 J	1926332.59	1926332.65	1926332.74	0.0089	0.0084
Venus	562-08-18 17:02 J	1926558.08	1926558.21	1926558.37	0.0089	0.0068
Venus	563-04-01 06:28 J	1926783.60	1926783.77	1926783.96	0.0089	0.0052
Venus	563-11-12 19:55 J	1927009.13	1927009.33	1927009.53	0.0089	0.0036
Venus	564-06-25 09:21 J	1927234.68	1927234.89	1927235.11	0.0089	0.0020
Venus	565-02-05 22:47 J	1927460.23	1927460.45	1927460.67	0.0089	0.0004
Venus	565-09-19 12:00 J	1927685.79	1927686.00	1927686.23	0.0089	0.0012
Venus	566-05-03 01:12 J	1927911.35	1927911.55	1927911.77	0.0089	0.0028
Venus	566-12-14 14:52 J	1928136.92	1928137.12	1928137.31	0.0089	0.0044
Venus	567-07-28 04:04 J	1928362.51	1928362.67	1928362.84	0.0089	0.0060
Venus	568-03-09 17:16 J	1928588.11	1928588.22	1928588.34	0.0089	0.0076
Moon	601-01-06 12:14 J	1940578.92	1940579.01	1940579.10	0.0089	0.0083
Earth	601-01-06 14:52 J	1940579.01	1940579.12	1940579.23	0.0089	0.0079 *
Earth	602-01-09 00:43 J	1940946.35	1940946.53	1940946.74	0.0089	0.0055
Moon	602-01-09 03:50 J	1940946.47	1940946.66	1940946.88	0.0089	0.0051 *

Moon	603-01-11 07:26 J	1941313.60	1941313.81	1941314.07	0.0089	0.0035
Earth	603-01-11 11:16 J	1941313.74	1941313.97	1941314.22	0.0089	0.0030 *
Earth	604-01-13 21:50 J	1941681.15	1941681.41	1941681.66	0.0089	0.0005
Moon	604-01-14 01:26 J	1941681.30	1941681.56	1941681.81	0.0089	0.0001 *
Moon	605-01-15 05:16 J	1942048.48	1942048.72	1942048.98	0.0089	0.0016
Earth	605-01-15 08:09 J	1942048.60	1942048.84	1942049.09	0.0089	0.0020 *
Earth	606-01-17 18:00 J	1942416.05	1942416.25	1942416.49	0.0089	0.0045
Moon	606-01-17 20:24 J	1942416.15	1942416.35	1942416.58	0.0089	0.0049 *
Moon	607-01-20 03:50 J	1942783.50	1942783.66	1942783.83	0.0089	0.0065
Earth	607-01-20 04:33 J	1942783.54	1942783.69	1942783.85	0.0089	0.0069 *
Mars	626-01-29 12:00 J	1949732.81	1949733.00	1949733.23	0.0088	0.0069
Mars	627-12-26 12:43 J	1950428.73	1950429.03	1950429.37	0.0088	0.0028
Mercury	638-11-25 14:52 J	1954416.09	1954416.12	1954416.17	0.0088	0.0085
Mercury	639-02-21 18:00 J	1954504.17	1954504.25	1954504.35	0.0088	0.0076
Mercury	639-05-20 21:07 J	1954592.27	1954592.38	1954592.51	0.0088	0.0067
Mercury	639-08-17 00:14 J	1954680.39	1954680.51	1954680.66	0.0088	0.0058
Mercury	639-11-13 03:21 J	1954768.50	1954768.64	1954768.81	0.0088	0.0049
Mercury	640-02-09 06:57 J	1954856.63	1954856.79	1954856.96	0.0088	0.0039
Mercury	640-05-07 10:04 J	1954944.75	1954944.92	1954945.10	0.0088	0.0030
Mercury	640-08-03 13:12 J	1955032.88	1955033.05	1955033.24	0.0088	0.0021
Mercury	640-10-30 16:47 J	1955121.01	1955121.20	1955121.38	0.0088	0.0011
Mercury	641-01-26 19:55 J	1955209.14	1955209.33	1955209.52	0.0088	0.0002
Mercury	641-04-24 23:02 J	1955297.28	1955297.46	1955297.66	0.0088	0.0008
Mercury	641-07-22 02:24 J	1955385.42	1955385.60	1955385.79	0.0088	0.0017
Mercury	641-10-18 05:31 J	1955473.56	1955473.73	1955473.92	0.0088	0.0027
Mercury	642-01-14 08:52 J	1955561.71	1955561.87	1955562.05	0.0088	0.0036
Mercury	642-04-12 12:00 J	1955649.85	1955650.00	1955650.18	0.0088	0.0046
Mercury	642-07-09 15:35 J	1955738.01	1955738.15	1955738.30	0.0088	0.0055
Mercury	642-10-05 18:28 J	1955826.17	1955826.27	1955826.42	0.0088	0.0065
Mercury	643-01-01 22:04 J	1955914.33	1955914.42	1955914.53	0.0088	0.0074

Mercury	643-03-31 01:12 J	1956002.52	1956002.55	1956002.63	0.0088	0.0084
Venus	644-02-20 12:14 J	1956328.94	1956329.01	1956329.09	0.0088	0.0082
Venus	644-10-03 00:43 J	1956554.40	1956554.53	1956554.68	0.0088	0.0067
Venus	645-05-16 13:26 J	1956779.89	1956780.06	1956780.24	0.0088	0.0052
Venus	645-12-28 01:55 J	1957005.40	1957005.58	1957005.79	0.0088	0.0037
Venus	646-08-10 14:38 J	1957230.91	1957231.11	1957231.34	0.0088	0.0022
Venus	647-03-24 03:35 J	1957456.43	1957456.65	1957456.87	0.0088	0.0006
Venus	647-11-04 16:04 J	1957681.96	1957682.17	1957682.40	0.0088	0.0009
Venus	648-06-17 04:47 J	1957907.49	1957907.70	1957907.92	0.0088	0.0024
Venus	649-01-28 17:31 J	1958133.04	1958133.23	1958133.44	0.0088	0.0039
Venus	649-09-11 06:14 J	1958358.59	1958358.76	1958358.94	0.0088	0.0054
Venus	650-04-24 18:57 J	1958584.16	1958584.29	1958584.43	0.0088	0.0069
Venus	650-12-06 06:57 J	1958809.76	1958809.79	1958809.88	0.0088	0.0085
Moon	684-07-10 23:16 J	1971080.34	1971080.47	1971080.65	0.0089	0.0071
Earth	684-07-11 03:35 J	1971080.50	1971080.65	1971080.80	0.0089	0.0072 *
Earth	685-07-13 16:19 J	1971447.97	1971448.18	1971448.42	0.0089	0.0047
Moon	685-07-13 19:40 J	1971448.12	1971448.32	1971448.56	0.0089	0.0049 *
Moon	686-07-16 02:09 J	1971815.35	1971815.59	1971815.86	0.0089	0.0020
Earth	686-07-16 05:31 J	1971815.49	1971815.73	1971816.00	0.0089	0.0022 *
Earth	687-07-18 18:43 J	1972183.01	1972183.28	1972183.54	0.0089	0.0004
Moon	687-07-18 21:07 J	1972183.11	1972183.38	1972183.65	0.0089	0.0002 *
Moon	688-07-20 06:28 J	1972550.54	1972550.77	1972551.01	0.0089	0.0031
Earth	688-07-20 07:26 J	1972550.57	1972550.81	1972551.07	0.0089	0.0029 *
Earth	689-07-22 20:09 J	1972918.16	1972918.34	1972918.57	0.0089	0.0055
Moon	689-07-22 20:38 J	1972918.17	1972918.36	1972918.60	0.0089	0.0052 *
Earth	690-07-25 09:07 J	1973285.80	1973285.88	1973286.02	0.0089	0.0080
Moon	690-07-25 10:19 J	1973285.87	1973285.93	1973286.05	0.0089	0.0083 *
Mars	709-09-21 06:00 J	1980283.49	1980283.75	1980284.05	0.0089	0.0027
Mars	711-08-16 03:07 J	1980977.42	1980977.63	1980977.86	0.0089	0.0060
Mercury	720-09-08 23:16 J	1984289.46	1984289.47	1984289.49	0.0089	0.0089

Mercury	720-12-06 00:43 J	1984377.49	1984377.53	1984377.60	0.0089	0.0081
Mercury	721-03-04 02:09 J	1984465.53	1984465.59	1984465.68	0.0089	0.0074
Mercury	721-05-31 03:50 J	1984553.58	1984553.66	1984553.76	0.0089	0.0067
Mercury	721-08-27 05:16 J	1984641.63	1984641.72	1984641.83	0.0089	0.0060
Mercury	721-11-23 06:43 J	1984729.68	1984729.78	1984729.90	0.0089	0.0052
Mercury	722-02-19 08:24 J	1984817.73	1984817.85	1984817.97	0.0089	0.0045
Mercury	722-05-18 09:50 J	1984905.79	1984905.91	1984906.04	0.0089	0.0038
Mercury	722-08-14 11:16 J	1984993.84	1984993.97	1984994.10	0.0089	0.0030
Mercury	722-11-10 12:43 J	1985081.90	1985082.03	1985082.16	0.0089	0.0023
Mercury	723-02-06 14:09 J	1985169.96	1985170.09	1985170.23	0.0089	0.0016
Mercury	723-05-05 15:35 J	1985258.02	1985258.15	1985258.29	0.0089	0.0009
Mercury	723-08-01 17:02 J	1985346.08	1985346.21	1985346.35	0.0089	0.0003
Mercury	723-10-28 18:28 J	1985434.14	1985434.27	1985434.41	0.0089	0.0006
Mercury	724-01-24 19:55 J	1985522.20	1985522.33	1985522.47	0.0089	0.0013
Mercury	724-04-21 21:21 J	1985610.26	1985610.39	1985610.52	0.0089	0.0020
Mercury	724-07-18 22:47 J	1985698.32	1985698.45	1985698.58	0.0089	0.0027
Mercury	724-10-15 00:14 J	1985786.39	1985786.51	1985786.64	0.0089	0.0034
Mercury	725-01-11 01:40 J	1985874.45	1985874.57	1985874.69	0.0089	0.0041
Mercury	725-04-09 03:07 J	1985962.52	1985962.63	1985962.74	0.0089	0.0048
Mercury	725-07-06 04:33 J	1986050.58	1986050.69	1986050.79	0.0089	0.0055
Mercury	725-10-02 06:00 J	1986138.65	1986138.75	1986138.84	0.0089	0.0062
Mercury	725-12-29 06:57 J	1986226.72	1986226.79	1986226.89	0.0089	0.0070
Mercury	726-03-27 08:38 J	1986314.79	1986314.86	1986314.93	0.0089	0.0076
Mercury	726-06-23 10:04 J	1986402.87	1986402.92	1986402.97	0.0089	0.0083
Venus	726-11-20 04:04 J	1986552.57	1986552.67	1986552.82	0.0089	0.0075
Venus	727-07-03 17:31 J	1986778.09	1986778.23	1986778.42	0.0089	0.0059
Venus	728-02-14 06:57 J	1987003.62	1987003.79	1987004.00	0.0089	0.0043
Venus	728-09-26 20:24 J	1987229.16	1987229.35	1987229.58	0.0089	0.0027
Venus	729-05-10 09:50 J	1987454.70	1987454.91	1987455.14	0.0089	0.0011
Venus	729-12-21 23:16 J	1987680.26	1987680.47	1987680.69	0.0089	0.0006

Venus	730-08-04 12:43 J	1987905.82	1987906.03	1987906.25	0.0089	0.0022
Venus	731-03-18 01:55 J	1988131.39	1988131.58	1988131.79	0.0089	0.0038
Venus	731-10-29 15:07 J	1988356.97	1988357.13	1988357.32	0.0089	0.0055
Venus	732-06-11 04:19 J	1988582.57	1988582.68	1988582.84	0.0089	0.0071
Venus	733-01-22 18:14 J	1988808.20	1988808.26	1988808.31	0.0089	0.0086
Moon	766-01-08 09:21 J	2000846.74	2000846.89	2000847.09	0.0089	0.0064
Earth	766-01-08 12:43 J	2000846.89	2000847.03	2000847.22	0.0089	0.0067 *
Earth	767-01-10 23:16 J	2001214.26	2001214.47	2001214.71	0.0089	0.0042
Moon	767-01-11 02:24 J	2001214.40	2001214.60	2001214.85	0.0089	0.0044 *
Moon	768-01-13 06:57 J	2001581.56	2001581.79	2001582.05	0.0089	0.0016
Earth	768-01-13 09:50 J	2001581.67	2001581.91	2001582.17	0.0089	0.0018 *
Earth	769-01-14 20:09 J	2001949.09	2001949.34	2001949.60	0.0089	0.0008
Moon	769-01-14 21:35 J	2001949.14	2001949.40	2001949.67	0.0089	0.0006 *
Moon	770-01-17 05:45 J	2002316.52	2002316.74	2002316.98	0.0089	0.0034
Earth	770-01-17 06:28 J	2002316.54	2002316.77	2002317.02	0.0089	0.0032 *
Moon	771-01-19 15:50 J	2002683.97	2002684.16	2002684.38	0.0089	0.0055
Earth	771-01-19 16:33 J	2002684.02	2002684.19	2002684.41	0.0089	0.0057 *
Earth	772-01-22 03:07 J	2003051.54	2003051.63	2003051.74	0.0089	0.0081
Moon	772-01-22 04:47 J	2003051.65	2003051.70	2003051.81	0.0089	0.0084 *
Mars	791-08-09 09:50 J	2010190.60	2010190.91	2010191.26	0.0088	0.0017
Mars	793-07-05 09:35 J	2010886.79	2010886.90	2010887.07	0.0088	0.0080
Mercury	803-08-22 14:09 J	2014587.02	2014587.09	2014587.17	0.0088	0.0080
Mercury	803-11-18 17:16 J	2014675.12	2014675.22	2014675.33	0.0088	0.0071
Mercury	804-02-14 20:24 J	2014763.23	2014763.35	2014763.49	0.0088	0.0062
Mercury	804-05-12 23:31 J	2014851.34	2014851.48	2014851.64	0.0088	0.0053
Mercury	804-08-09 02:38 J	2014939.46	2014939.61	2014939.79	0.0088	0.0044
Mercury	804-11-05 06:14 J	2015027.59	2015027.76	2015027.93	0.0088	0.0034
Mercury	805-02-01 09:21 J	2015115.71	2015115.89	2015116.07	0.0088	0.0025
Mercury	805-04-30 12:28 J	2015203.84	2015204.02	2015204.21	0.0088	0.0016
Mercury	805-07-27 15:50 J	2015291.97	2015292.16	2015292.35	0.0088	0.0006

Mercury	805-10-23 18:57 J	2015380.11	2015380.29	2015380.48	0.0088	0.0004
Mercury	806-01-19 22:19 J	2015468.25	2015468.43	2015468.62	0.0088	0.0012
Mercury	806-04-18 01:26 J	2015556.39	2015556.56	2015556.75	0.0088	0.0022
Mercury	806-07-15 04:33 J	2015644.53	2015644.69	2015644.88	0.0088	0.0032
Mercury	806-10-11 07:55 J	2015732.68	2015732.83	2015733.01	0.0088	0.0041
Mercury	807-01-07 11:31 J	2015820.82	2015820.98	2015821.13	0.0088	0.0050
Mercury	807-04-05 14:24 J	2015908.98	2015909.10	2015909.25	0.0088	0.0060
Mercury	807-07-02 17:45 J	2015997.14	2015997.24	2015997.37	0.0088	0.0070
Mercury	807-09-28 21:07 J	2016085.31	2016085.38	2016085.48	0.0088	0.0079
Venus	809-01-04 12:43 J	2016548.92	2016549.03	2016549.16	0.0088	0.0073
Venus	809-08-18 01:26 J	2016774.41	2016774.56	2016774.74	0.0088	0.0058
Venus	810-03-31 14:09 J	2016999.91	2017000.09	2017000.29	0.0088	0.0043
Venus	810-11-12 03:07 J	2017225.42	2017225.63	2017225.84	0.0088	0.0027
Venus	811-06-25 15:50 J	2017450.94	2017451.16	2017451.38	0.0088	0.0012
Venus	812-02-06 04:33 J	2017676.47	2017676.69	2017676.91	0.0088	0.0004
Venus	812-09-18 17:02 J	2017902.01	2017902.21	2017902.44	0.0088	0.0019
Venus	813-05-02 05:45 J	2018127.55	2018127.74	2018127.95	0.0088	0.0034
Venus	813-12-13 18:14 J	2018353.09	2018353.26	2018353.46	0.0088	0.0049
Venus	814-07-27 06:57 J	2018578.65	2018578.79	2018578.95	0.0088	0.0064
Venus	815-03-09 20:09 J	2018804.25	2018804.34	2018804.43	0.0088	0.0079
Earth	848-07-10 12:57 J	2030980.98	2030981.04	2030981.15	0.0089	0.0084
Moon	848-07-10 16:47 J	2030981.10	2030981.20	2030981.33	0.0089	0.0079 *
Moon	849-07-13 00:14 J	2031348.33	2031348.51	2031348.69	0.0089	0.0063
Earth	849-07-13 02:09 J	2031348.42	2031348.59	2031348.81	0.0089	0.0059 *
Earth	850-07-15 15:21 J	2031715.91	2031716.14	2031716.40	0.0089	0.0034
Moon	850-07-15 17:31 J	2031715.99	2031716.23	2031716.50	0.0089	0.0030 *
Moon	851-07-18 03:50 J	2032083.41	2032083.66	2032083.91	0.0089	0.0013
Earth	851-07-18 04:33 J	2032083.44	2032083.69	2032083.96	0.0089	0.0009 *
Moon	852-07-19 16:47 J	2032450.94	2032451.20	2032451.47	0.0089	0.0021
Earth	852-07-19 17:31 J	2032450.98	2032451.23	2032451.50	0.0089	0.0017 *

Earth	853-07-22 06:28 J	2032818.55	2032818.77	2032819.01	0.0089	0.0042
Moon	853-07-22 08:09 J	2032818.61	2032818.84	2032819.07	0.0089	0.0038 *
Moon	854-07-24 16:47 J	2033186.06	2033186.20	2033186.37	0.0089	0.0071
Earth	854-07-24 19:26 J	2033186.16	2033186.31	2033186.50	0.0089	0.0067 *
Moon	855-07-27 11:31 J	2033553.97	2033553.98	2033554.04	0.0089	0.0088
Jupiter	871-12-11 21:07 J	2039534.91	2039535.38	2039535.91	0.0089	0.0023
Mars	873-05-06 19:40 J	2040047.15	2040047.32	2040047.55	0.0089	0.0066
Mars	875-03-31 14:38 J	2040740.83	2040741.11	2040741.40	0.0089	0.0021
Mercury	885-06-05 23:16 J	2044460.44	2044460.47	2044460.52	0.0089	0.0085
Mercury	885-09-02 00:43 J	2044548.48	2044548.53	2044548.61	0.0089	0.0078
Mercury	885-11-29 02:09 J	2044636.52	2044636.59	2044636.69	0.0089	0.0071
Mercury	886-02-25 03:50 J	2044724.57	2044724.66	2044724.76	0.0089	0.0063
Mercury	886-05-24 05:16 J	2044812.62	2044812.72	2044812.84	0.0089	0.0056
Mercury	886-08-20 06:43 J	2044900.68	2044900.78	2044900.91	0.0089	0.0049
Mercury	886-11-16 08:09 J	2044988.73	2044988.84	2044988.97	0.0089	0.0042
Mercury	887-02-12 09:50 J	2045076.79	2045076.91	2045077.04	0.0089	0.0034
Mercury	887-05-11 11:16 J	2045164.84	2045164.97	2045165.11	0.0089	0.0027
Mercury	887-08-07 12:43 J	2045252.90	2045253.03	2045253.17	0.0089	0.0020
Mercury	887-11-03 14:09 J	2045340.96	2045341.09	2045341.23	0.0089	0.0013
Mercury	888-01-30 15:50 J	2045429.02	2045429.16	2045429.29	0.0089	0.0005
Mercury	888-04-27 17:16 J	2045517.08	2045517.22	2045517.35	0.0089	0.0003
Mercury	888-07-24 18:43 J	2045605.14	2045605.28	2045605.41	0.0089	0.0010
Mercury	888-10-20 20:09 J	2045693.20	2045693.34	2045693.47	0.0089	0.0017
Mercury	889-01-16 21:35 J	2045781.27	2045781.40	2045781.53	0.0089	0.0024
Mercury	889-04-14 22:47 J	2045869.33	2045869.45	2045869.58	0.0089	0.0031
Mercury	889-07-12 00:14 J	2045957.39	2045957.51	2045957.64	0.0089	0.0038
Mercury	889-10-08 01:40 J	2046045.46	2046045.57	2046045.69	0.0089	0.0045
Mercury	890-01-04 03:07 J	2046133.53	2046133.63	2046133.74	0.0089	0.0052
Mercury	890-04-02 04:33 J	2046221.59	2046221.69	2046221.79	0.0089	0.0059
Mercury	890-06-29 06:00 J	2046309.66	2046309.75	2046309.84	0.0089	0.0066

Mercury	890-09-25 07:26 J	2046397.73	2046397.81	2046397.89	0.0089	0.0073
Mercury	890-12-22 08:52 J	2046485.81	2046485.87	2046485.93	0.0089	0.0080
Venus	891-02-21 16:04 J	2046547.09	2046547.17	2046547.28	0.0089	0.0081
Mercury	891-03-20 10:04 J	2046573.90	2046573.92	2046573.96	0.0089	0.0087
Venus	891-10-05 05:16 J	2046772.59	2046772.72	2046772.89	0.0089	0.0065
Venus	892-05-17 18:43 J	2046998.11	2046998.28	2046998.47	0.0089	0.0048
Venus	892-12-29 07:55 J	2047223.64	2047223.83	2047224.05	0.0089	0.0033
Venus	893-08-11 21:35 J	2047449.19	2047449.40	2047449.62	0.0089	0.0016
Venus	894-03-25 11:02 J	2047674.74	2047674.96	2047675.18	0.0089	0.0001
Venus	894-11-06 00:00 J	2047900.29	2047900.50	2047900.73	0.0089	0.0016
Venus	895-06-19 13:12 J	2048125.86	2048126.05	2048126.27	0.0089	0.0033
Venus	896-01-31 02:24 J	2048351.43	2048351.60	2048351.80	0.0089	0.0049
Venus	896-09-12 15:50 J	2048577.03	2048577.16	2048577.33	0.0089	0.0065
Venus	897-04-26 05:02 J	2048802.64	2048802.71	2048802.82	0.0089	0.0081
Earth	930-01-08 01:26 J	2060747.46	2060747.56	2060747.70	0.0089	0.0078
Moon	930-01-08 04:19 J	2060747.61	2060747.68	2060747.81	0.0089	0.0082 *
Moon	931-01-10 09:35 J	2061114.71	2061114.90	2061115.11	0.0089	0.0050
Earth	931-01-10 11:45 J	2061114.81	2061114.99	2061115.21	0.0089	0.0054 *
Earth	932-01-12 21:50 J	2061482.19	2061482.41	2061482.66	0.0089	0.0030
Moon	932-01-12 23:16 J	2061482.25	2061482.47	2061482.73	0.0089	0.0034 *
Earth	933-01-14 08:24 J	2061849.60	2061849.85	2061850.11	0.0089	0.0005
Moon	933-01-14 08:38 J	2061849.62	2061849.86	2061850.11	0.0089	0.0001 *
Moon	934-01-16 17:31 J	2062216.97	2062217.23	2062217.49	0.0089	0.0016
Earth	934-01-16 18:28 J	2062217.03	2062217.27	2062217.53	0.0089	0.0020 *
Earth	935-01-19 04:47 J	2062584.49	2062584.70	2062584.93	0.0089	0.0044
Moon	935-01-19 06:43 J	2062584.59	2062584.78	2062585.01	0.0089	0.0049 *
Moon	936-01-21 11:31 J	2062951.83	2062951.98	2062952.18	0.0089	0.0065
Earth	936-01-21 14:52 J	2062951.98	2062952.12	2062952.31	0.0089	0.0069 *
Mars	955-03-23 04:47 J	2069952.49	2069952.70	2069952.98	0.0088	0.0062
Mars	957-02-16 06:57 J	2070648.50	2070648.79	2070649.12	0.0088	0.0037



Mercury	968-02-20 09:50 J	2074669.88	2074669.91	2074669.98	0.0088	0.0085
Mercury	968-05-18 13:26 J	2074757.97	2074758.06	2074758.16	0.0088	0.0075
Mercury	968-08-14 16:33 J	2074846.07	2074846.19	2074846.31	0.0088	0.0066
Mercury	968-11-10 19:40 J	2074934.19	2074934.32	2074934.47	0.0088	0.0057
Mercury	969-02-06 22:47 J	2075022.30	2075022.45	2075022.61	0.0088	0.0048
Mercury	969-05-06 01:55 J	2075110.42	2075110.58	2075110.76	0.0088	0.0039
Mercury	969-08-02 05:02 J	2075198.55	2075198.71	2075198.90	0.0088	0.0030
Mercury	969-10-29 08:24 J	2075286.67	2075286.85	2075287.04	0.0088	0.0020
Mercury	970-01-25 11:45 J	2075374.80	2075374.99	2075375.18	0.0088	0.0011
Mercury	970-04-23 14:52 J	2075462.94	2075463.12	2075463.31	0.0088	0.0002
Mercury	970-07-20 18:14 J	2075551.07	2075551.26	2075551.45	0.0088	0.0008
Mercury	970-10-16 21:21 J	2075639.21	2075639.39	2075639.58	0.0088	0.0017
Mercury	971-01-13 00:28 J	2075727.35	2075727.52	2075727.71	0.0088	0.0027
Mercury	971-04-11 03:50 J	2075815.49	2075815.66	2075815.84	0.0088	0.0036
Mercury	971-07-08 06:57 J	2075903.64	2075903.79	2075903.96	0.0088	0.0046
Mercury	971-10-04 10:19 J	2075991.79	2075991.93	2075992.09	0.0088	0.0055
Mercury	971-12-31 13:26 J	2076079.95	2076080.06	2076080.20	0.0088	0.0065
Mercury	972-03-28 16:47 J	2076168.11	2076168.20	2076168.32	0.0088	0.0074
Mercury	972-06-24 19:55 J	2076256.30	2076256.33	2076256.41	0.0088	0.0084
Venus	973-04-08 00:43 J	2076543.44	2076543.53	2076543.63	0.0088	0.0079
Venus	973-11-19 13:12 J	2076768.91	2076769.05	2076769.21	0.0088	0.0064
Venus	974-07-03 01:55 J	2076994.41	2076994.58	2076994.77	0.0088	0.0049
Venus	975-02-13 14:38 J	2077219.92	2077220.11	2077220.33	0.0088	0.0034
Venus	975-09-27 03:35 J	2077445.44	2077445.65	2077445.87	0.0088	0.0018
Venus	976-05-09 16:19 J	2077670.96	2077671.18	2077671.41	0.0088	0.0003
Venus	976-12-21 05:02 J	2077896.49	2077896.71	2077896.93	0.0088	0.0013
Venus	977-08-03 17:45 J	2078122.03	2078122.24	2078122.45	0.0088	0.0028
Venus	978-03-17 06:14 J	2078347.58	2078347.76	2078347.97	0.0088	0.0044
Venus	978-10-28 18:57 J	2078573.14	2078573.29	2078573.47	0.0088	0.0059
Venus	979-06-11 07:40 J	2078798.72	2078798.82	2078798.95	0.0088	0.0074

# 2ND MILLENNIUM CE

**This is a list of transits visible from Neptune in the 2nd millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	1013-07-12 11:02 J		2091248.83	2091248.96	2091249.14	0.0089	0.0071	
Moon	1013-07-12 12:14 J		2091248.86	2091249.01	2091249.20	0.0089	0.0070	*
Earth	1014-07-15 00:28 J		2091616.31	2091616.52	2091616.76	0.0089	0.0046	
Moon	1014-07-15 00:28 J		2091616.32	2091616.52	2091616.75	0.0089	0.0047	*
Moon	1015-07-17 12:43 J		2091983.78	2091984.03	2091984.31	0.0089	0.0020	
Earth	1015-07-17 13:55 J		2091983.83	2091984.08	2091984.34	0.0089	0.0021	*
Earth	1016-07-19 03:07 J		2092351.37	2092351.63	2092351.89	0.0089	0.0004	
Moon	1016-07-19 05:31 J		2092351.48	2092351.73	2092351.99	0.0089	0.0003	*
Moon	1017-07-21 12:57 J		2092718.80	2092719.04	2092719.31	0.0089	0.0031	
Earth	1017-07-21 16:19 J		2092718.93	2092719.18	2092719.43	0.0089	0.0029	*
Earth	1018-07-24 05:02 J		2093086.51	2093086.71	2093086.92	0.0089	0.0054	
Moon	1018-07-24 08:24 J		2093086.65	2093086.85	2093087.07	0.0089	0.0052	*
Moon	1019-07-26 13:55 J		2093454.00	2093454.08	2093454.22	0.0089	0.0081	
Earth	1019-07-26 17:45 J		2093454.15	2093454.24	2093454.38	0.0089	0.0079	*
Mars	1038-11-14 03:50 J		2100504.38	2100504.66	2100504.95	0.0089	0.0019	
Mars	1040-10-07 22:33 J		2101198.28	2101198.44	2101198.66	0.0089	0.0068	
Mercury	1049-12-04 21:35 J		2104543.40	2104543.40	2104543.43	0.0089	0.0089	
Mercury	1050-03-02 23:02 J		2104631.42	2104631.46	2104631.53	0.0089	0.0082	
Mercury	1050-05-30 00:57 J		2104719.46	2104719.54	2104719.61	0.0089	0.0074	

Mercury	1050-08-26 02:09 J	2104807.51	2104807.59	2104807.69	0.0089	0.0067
Mercury	1050-11-22 03:35 J	2104895.56	2104895.65	2104895.76	0.0089	0.0060
Mercury	1051-02-18 05:02 J	2104983.61	2104983.71	2104983.84	0.0089	0.0053
Mercury	1051-05-17 06:57 J	2105071.67	2105071.79	2105071.90	0.0089	0.0045
Mercury	1051-08-13 08:09 J	2105159.72	2105159.84	2105159.97	0.0089	0.0038
Mercury	1051-11-09 09:50 J	2105247.78	2105247.91	2105248.04	0.0089	0.0030
Mercury	1052-02-05 11:16 J	2105335.84	2105335.97	2105336.10	0.0089	0.0023
Mercury	1052-05-03 12:43 J	2105423.90	2105424.03	2105424.17	0.0089	0.0016
Mercury	1052-07-30 14:09 J	2105511.96	2105512.09	2105512.23	0.0089	0.0009
Mercury	1052-10-26 15:35 J	2105600.02	2105600.15	2105600.29	0.0089	0.0003
Mercury	1053-01-22 17:02 J	2105688.08	2105688.21	2105688.35	0.0089	0.0007
Mercury	1053-04-20 18:28 J	2105776.14	2105776.27	2105776.41	0.0089	0.0013
Mercury	1053-07-17 19:55 J	2105864.20	2105864.33	2105864.47	0.0089	0.0020
Mercury	1053-10-13 21:21 J	2105952.27	2105952.39	2105952.52	0.0089	0.0027
Mercury	1054-01-09 22:48 J	2106040.33	2106040.45	2106040.58	0.0089	0.0034
Mercury	1054-04-08 00:14 J	2106128.40	2106128.51	2106128.64	0.0089	0.0041
Mercury	1054-07-05 01:40 J	2106216.46	2106216.57	2106216.69	0.0089	0.0048
Mercury	1054-10-01 03:07 J	2106304.53	2106304.63	2106304.74	0.0089	0.0055
Mercury	1054-12-28 04:19 J	2106392.60	2106392.68	2106392.79	0.0089	0.0063
Mercury	1055-03-26 05:45 J	2106480.67	2106480.74	2106480.84	0.0089	0.0070
Venus	1055-05-26 03:35 J	2106541.60	2106541.65	2106541.70	0.0089	0.0087
Mercury	1055-06-22 07:11 J	2106568.74	2106568.80	2106568.88	0.0089	0.0077
Mercury	1055-09-18 08:38 J	2106656.82	2106656.86	2106656.91	0.0089	0.0084
Venus	1056-01-06 16:48 J	2106767.08	2106767.20	2106767.34	0.0089	0.0071
Venus	1056-08-19 06:14 J	2106992.59	2106992.76	2106992.94	0.0089	0.0055
Venus	1057-04-01 19:26 J	2107218.12	2107218.31	2107218.52	0.0089	0.0039
Venus	1057-11-13 08:52 J	2107443.66	2107443.87	2107444.09	0.0089	0.0022
Venus	1058-06-26 22:19 J	2107669.21	2107669.43	2107669.65	0.0089	0.0006
Venus	1059-02-07 11:31 J	2107894.76	2107894.98	2107895.20	0.0089	0.0010
Venus	1059-09-21 00:43 J	2108120.33	2108120.53	2108120.75	0.0089	0.0026

Venus	1060-05-03 13:55 J	2108345.90	2108346.08	2108346.28	0.0089	0.0042
Venus	1060-12-15 03:07 J	2108571.48	2108571.63	2108571.81	0.0089	0.0059
Venus	1061-07-28 16:33 J	2108797.08	2108797.19	2108797.32	0.0089	0.0075
Earth	1095-01-10 00:00 J	2121015.34	2121015.50	2121015.68	0.0089	0.0065
Moon	1095-01-10 00:14 J	2121015.36	2121015.51	2121015.73	0.0089	0.0063 *
Earth	1096-01-12 10:19 J	2121382.71	2121382.93	2121383.16	0.0089	0.0041
Moon	1096-01-12 10:04 J	2121382.73	2121382.92	2121383.15	0.0089	0.0044 *
Moon	1097-01-13 18:43 J	2121750.02	2121750.28	2121750.54	0.0089	0.0014
Earth	1097-01-13 20:38 J	2121750.11	2121750.36	2121750.61	0.0089	0.0017 *
Earth	1098-01-16 06:43 J	2122117.53	2122117.78	2122118.04	0.0089	0.0008
Moon	1098-01-16 09:21 J	2122117.65	2122117.89	2122118.14	0.0089	0.0005 *
Moon	1099-01-18 13:40 J	2122484.84	2122485.07	2122485.32	0.0089	0.0034
Earth	1099-01-18 16:48 J	2122484.98	2122485.20	2122485.45	0.0089	0.0032 *
Earth	1100-01-21 02:52 J	2122852.44	2122852.62	2122852.83	0.0089	0.0056
Moon	1100-01-21 06:43 J	2122852.59	2122852.78	2122852.99	0.0089	0.0053 *
Moon	1101-01-22 09:50 J	2123219.85	2123219.91	2123220.03	0.0089	0.0083
Earth	1101-01-22 13:11 J	2123219.96	2123220.05	2123220.18	0.0089	0.0080 *
Mars	1120-09-30 01:40 J	2130410.24	2130410.57	2130410.92	0.0088	0.0009
Mercury	1132-11-16 09:07 J	2134840.82	2134840.88	2134840.97	0.0088	0.0080
Mercury	1133-02-12 12:14 J	2134928.92	2134929.01	2134929.14	0.0088	0.0071
Mercury	1133-05-11 15:21 J	2135017.03	2135017.14	2135017.29	0.0088	0.0062
Mercury	1133-08-07 18:57 J	2135105.14	2135105.29	2135105.44	0.0088	0.0052
Mercury	1133-11-03 22:04 J	2135193.26	2135193.42	2135193.58	0.0088	0.0043
Mercury	1134-01-31 01:11 J	2135281.38	2135281.55	2135281.73	0.0088	0.0034
Mercury	1134-04-29 04:19 J	2135369.51	2135369.68	2135369.87	0.0088	0.0025
Mercury	1134-07-26 07:26 J	2135457.64	2135457.81	2135458.00	0.0088	0.0016
Mercury	1134-10-22 10:48 J	2135545.77	2135545.95	2135546.14	0.0088	0.0006
Mercury	1135-01-18 14:09 J	2135633.90	2135634.09	2135634.27	0.0088	0.0003
Mercury	1135-04-16 17:16 J	2135722.04	2135722.22	2135722.41	0.0088	0.0012
Mercury	1135-07-13 20:24 J	2135810.17	2135810.35	2135810.54	0.0088	0.0022

Mercury	1135-10-09 23:45 J	2135898.32	2135898.49	2135898.67	0.0088	0.0031
Mercury	1136-01-06 02:38 J	2135986.46	2135986.61	2135986.79	0.0088	0.0041
Mercury	1136-04-03 06:14 J	2136074.61	2136074.76	2136074.92	0.0088	0.0050
Mercury	1136-06-30 09:07 J	2136162.76	2136162.88	2136163.04	0.0088	0.0060
Mercury	1136-09-26 12:43 J	2136250.92	2136251.03	2136251.15	0.0088	0.0069
Mercury	1136-12-23 15:35 J	2136339.09	2136339.15	2136339.26	0.0088	0.0079
Venus	1137-07-10 12:00 J	2136537.98	2136538.00	2136538.07	0.0088	0.0086
Venus	1138-02-21 01:11 J	2136763.43	2136763.55	2136763.69	0.0088	0.0070
Venus	1138-10-04 13:40 J	2136988.92	2136989.07	2136989.26	0.0088	0.0055
Venus	1139-05-18 02:24 J	2137214.42	2137214.60	2137214.81	0.0088	0.0040
Venus	1139-12-29 15:21 J	2137439.93	2137440.14	2137440.36	0.0088	0.0024
Venus	1140-08-11 04:04 J	2137665.46	2137665.67	2137665.89	0.0088	0.0009
Venus	1141-03-24 16:48 J	2137890.99	2137891.20	2137891.43	0.0088	0.0007
Venus	1141-11-05 05:31 J	2138116.52	2138116.73	2138116.95	0.0088	0.0022
Venus	1142-06-18 18:00 J	2138342.07	2138342.25	2138342.46	0.0088	0.0038
Venus	1143-01-30 06:57 J	2138567.63	2138567.79	2138567.98	0.0088	0.0053
Venus	1143-09-12 19:26 J	2138793.19	2138793.31	2138793.47	0.0088	0.0069
Venus	1144-04-25 08:09 J	2139018.79	2139018.84	2139018.92	0.0088	0.0084
Earth	1177-07-11 20:38 J	2151149.26	2151149.36	2151149.46	0.0089	0.0082
Moon	1177-07-11 20:52 J	2151149.27	2151149.37	2151149.51	0.0089	0.0078 *
Moon	1178-07-14 07:11 J	2151516.63	2151516.80	2151517.02	0.0089	0.0062
Earth	1178-07-14 09:21 J	2151516.71	2151516.89	2151517.11	0.0089	0.0058 *
Earth	1179-07-16 22:48 J	2151884.22	2151884.45	2151884.70	0.0089	0.0033
Moon	1179-07-17 01:11 J	2151884.32	2151884.55	2151884.80	0.0089	0.0029 *
Moon	1180-07-18 08:38 J	2152251.60	2152251.86	2152252.13	0.0089	0.0013
Earth	1180-07-18 12:14 J	2152251.76	2152252.01	2152252.28	0.0089	0.0008 *
Earth	1181-07-21 01:11 J	2152619.30	2152619.55	2152619.81	0.0089	0.0017
Moon	1181-07-21 04:48 J	2152619.45	2152619.70	2152619.96	0.0089	0.0021 *
Moon	1182-07-23 10:48 J	2152986.72	2152986.95	2152987.19	0.0089	0.0037
Earth	1182-07-23 13:55 J	2152986.87	2152987.08	2152987.33	0.0089	0.0042 *

Earth	1183-07-26 03:07 J	2153354.47	2153354.63	2153354.82	0.0089	0.0066
Moon	1183-07-26 06:00 J	2153354.61	2153354.75	2153354.93	0.0089	0.0071 *
Moon	1184-07-27 13:55 J	2153722.06	2153722.08	2153722.16	0.0089	0.0087
Mars	1202-06-29 15:50 J	2160267.96	2160268.16	2160268.40	0.0089	0.0058
Mars	1204-05-23 11:16 J	2160961.70	2160961.97	2160962.25	0.0089	0.0028
Mercury	1214-08-31 21:21 J	2164714.37	2164714.39	2164714.45	0.0089	0.0086
Mercury	1214-11-27 23:16 J	2164802.41	2164802.47	2164802.54	0.0089	0.0078
Mercury	1215-02-24 00:43 J	2164890.45	2164890.53	2164890.62	0.0089	0.0070
Mercury	1215-05-23 02:09 J	2164978.50	2164978.59	2164978.69	0.0089	0.0063
Mercury	1215-08-19 03:50 J	2165066.55	2165066.66	2165066.77	0.0089	0.0056
Mercury	1215-11-15 05:16 J	2165154.61	2165154.72	2165154.84	0.0089	0.0049
Mercury	1216-02-11 06:43 J	2165242.66	2165242.78	2165242.90	0.0089	0.0041
Mercury	1216-05-09 08:09 J	2165330.72	2165330.84	2165330.97	0.0089	0.0034
Mercury	1216-08-05 09:35 J	2165418.78	2165418.90	2165419.04	0.0089	0.0027
Mercury	1216-11-01 11:16 J	2165506.83	2165506.97	2165507.10	0.0089	0.0020
Mercury	1217-01-28 12:43 J	2165594.89	2165595.03	2165595.16	0.0089	0.0012
Mercury	1217-04-26 14:09 J	2165682.95	2165683.09	2165683.23	0.0089	0.0005
Mercury	1217-07-23 15:35 J	2165771.01	2165771.15	2165771.29	0.0089	0.0002
Mercury	1217-10-19 17:02 J	2165859.08	2165859.21	2165859.35	0.0089	0.0009
Mercury	1218-01-15 18:28 J	2165947.14	2165947.27	2165947.41	0.0089	0.0016
Mercury	1218-04-13 19:55 J	2166035.20	2166035.33	2166035.46	0.0089	0.0023
Mercury	1218-07-10 21:21 J	2166123.27	2166123.39	2166123.52	0.0089	0.0031
Mercury	1218-10-06 22:48 J	2166211.33	2166211.45	2166211.58	0.0089	0.0038
Mercury	1219-01-03 00:14 J	2166299.40	2166299.51	2166299.63	0.0089	0.0045
Mercury	1219-04-01 01:40 J	2166387.46	2166387.57	2166387.68	0.0089	0.0052
Mercury	1219-06-28 03:07 J	2166475.53	2166475.63	2166475.73	0.0089	0.0059
Mercury	1219-09-24 04:33 J	2166563.60	2166563.69	2166563.78	0.0089	0.0066
Mercury	1219-12-21 06:00 J	2166651.67	2166651.75	2166651.83	0.0089	0.0073
Mercury	1220-03-18 07:11 J	2166739.75	2166739.80	2166739.87	0.0089	0.0080
Venus	1220-04-09 03:50 J	2166761.57	2166761.66	2166761.78	0.0089	0.0078

Mercury	1220-06-14 08:38 J	2166827.84	2166827.86	2166827.90	0.0089	0.0087
Venus	1220-11-20 17:02 J	2166987.07	2166987.21	2166987.39	0.0089	0.0062
Venus	1221-07-04 06:28 J	2167212.60	2167212.77	2167212.97	0.0089	0.0046
Venus	1222-02-14 20:09 J	2167438.13	2167438.34	2167438.55	0.0089	0.0029
Venus	1222-09-28 09:21 J	2167663.68	2167663.89	2167664.11	0.0089	0.0013
Venus	1223-05-11 22:33 J	2167889.22	2167889.44	2167889.66	0.0089	0.0004
Venus	1223-12-23 11:45 J	2168114.78	2168114.99	2168115.21	0.0089	0.0020
Venus	1224-08-05 00:57 J	2168340.35	2168340.54	2168340.76	0.0089	0.0036
Venus	1225-03-18 14:09 J	2168565.93	2168566.09	2168566.29	0.0089	0.0053
Venus	1225-10-30 03:21 J	2168791.52	2168791.64	2168791.80	0.0089	0.0069
Venus	1226-06-12 16:33 J	2169017.14	2169017.19	2169017.28	0.0089	0.0085
Earth	1259-01-09 11:16 J	2180915.87	2180915.97	2180916.12	0.0089	0.0077
Moon	1259-01-09 12:28 J	2180915.93	2180916.02	2180916.14	0.0089	0.0080 *
Moon	1260-01-11 19:40 J	2181283.12	2181283.32	2181283.56	0.0089	0.0050
Earth	1260-01-11 21:35 J	2181283.21	2181283.40	2181283.62	0.0089	0.0053 *
Earth	1261-01-13 07:55 J	2181650.60	2181650.83	2181651.08	0.0089	0.0029
Moon	1261-01-13 10:48 J	2181650.73	2181650.95	2181651.19	0.0089	0.0033 *
Moon	1262-01-15 14:52 J	2182017.87	2182018.12	2182018.38	0.0089	0.0002
Earth	1262-01-15 18:28 J	2182018.01	2182018.27	2182018.52	0.0089	0.0005 *
Earth	1263-01-18 04:19 J	2182385.44	2182385.68	2182385.93	0.0089	0.0019
Moon	1263-01-18 07:55 J	2182385.58	2182385.83	2182386.08	0.0089	0.0015 *
Moon	1264-01-20 11:02 J	2182752.76	2182752.96	2182753.19	0.0089	0.0047
Earth	1264-01-20 14:24 J	2182752.89	2182753.10	2182753.33	0.0089	0.0043 *
Earth	1265-01-22 00:28 J	2183120.37	2183120.52	2183120.70	0.0089	0.0067
Moon	1265-01-22 02:24 J	2183120.44	2183120.60	2183120.81	0.0089	0.0064 *
Mars	1284-05-13 18:14 J	2190172.02	2190172.26	2190172.56	0.0088	0.0055
Mars	1286-04-09 20:38 J	2190868.10	2190868.36	2190868.69	0.0088	0.0044
Mercury	1297-05-17 04:48 J	2194923.68	2194923.70	2194923.77	0.0088	0.0085
Mercury	1297-08-13 07:55 J	2195011.76	2195011.83	2195011.94	0.0088	0.0076
Mercury	1297-11-09 11:02 J	2195099.86	2195099.96	2195100.10	0.0088	0.0067

Mercury	1298-02-05 14:09 J	2195187.97	2195188.09	2195188.25	0.0088	0.0058
Mercury	1298-05-04 17:45 J	2195276.09	2195276.24	2195276.40	0.0088	0.0048
Mercury	1298-07-31 20:52 J	2195364.21	2195364.37	2195364.54	0.0088	0.0039
Mercury	1298-10-28 00:00 J	2195452.33	2195452.50	2195452.68	0.0088	0.0030
Mercury	1299-01-24 03:07 J	2195540.46	2195540.63	2195540.82	0.0088	0.0021
Mercury	1299-04-22 06:28 J	2195628.59	2195628.77	2195628.96	0.0088	0.0011
Mercury	1299-07-19 09:35 J	2195716.72	2195716.90	2195717.09	0.0088	0.0003
Mercury	1299-10-15 12:57 J	2195804.85	2195805.04	2195805.23	0.0088	0.0007
Mercury	1300-01-11 16:04 J	2195892.99	2195893.17	2195893.36	0.0088	0.0017
Mercury	1300-04-08 19:11 J	2195981.13	2195981.30	2195981.49	0.0088	0.0026
Mercury	1300-07-05 22:33 J	2196069.27	2196069.44	2196069.61	0.0088	0.0035
Mercury	1300-10-02 01:26 J	2196157.42	2196157.56	2196157.74	0.0088	0.0045
Mercury	1300-12-29 05:02 J	2196245.57	2196245.71	2196245.86	0.0088	0.0054
Mercury	1301-03-27 07:55 J	2196333.72	2196333.83	2196333.98	0.0088	0.0064
Mercury	1301-06-23 11:31 J	2196421.88	2196421.98	2196422.09	0.0088	0.0073
Mercury	1301-09-19 14:24 J	2196510.06	2196510.10	2196510.19	0.0088	0.0083
Venus	1302-05-25 12:14 J	2196757.92	2196758.01	2196758.13	0.0088	0.0077
Venus	1303-01-06 00:43 J	2196983.40	2196983.53	2196983.71	0.0088	0.0062
Venus	1303-08-19 13:55 J	2197208.90	2197209.08	2197209.27	0.0088	0.0046
Venus	1304-04-01 02:24 J	2197434.41	2197434.60	2197434.82	0.0088	0.0031
Venus	1304-11-12 15:21 J	2197659.92	2197660.14	2197660.36	0.0088	0.0015
Venus	1305-06-26 04:04 J	2197885.45	2197885.67	2197885.89	0.0088	0.0001
Venus	1306-02-06 16:48 J	2198110.99	2198111.20	2198111.42	0.0088	0.0016
Venus	1306-09-20 05:16 J	2198336.53	2198336.72	2198336.94	0.0088	0.0032
Venus	1307-05-03 18:14 J	2198562.08	2198562.26	2198562.45	0.0088	0.0047
Venus	1307-12-15 06:28 J	2198787.64	2198787.77	2198787.95	0.0088	0.0063
Venus	1308-07-27 19:26 J	2199013.23	2199013.31	2199013.43	0.0088	0.0078
Earth	1342-07-13 17:16 J	2211417.09	2211417.22	2211417.41	0.0089	0.0070
Moon	1342-07-13 20:24 J	2211417.23	2211417.35	2211417.54	0.0089	0.0071 *
Moon	1343-07-16 03:21 J	2211784.43	2211784.64	2211784.89	0.0089	0.0046



Earth	1343-07-16 07:11 J	2211784.58	2211784.80	2211785.03	0.0089	0.0045 *
Earth	1344-07-17 20:09 J	2212152.09	2212152.34	2212152.60	0.0089	0.0021
Moon	1344-07-18 00:00 J	2212152.25	2212152.50	2212152.76	0.0089	0.0020 *
Moon	1345-07-20 06:28 J	2212519.52	2212519.77	2212520.03	0.0089	0.0005
Earth	1345-07-20 09:35 J	2212519.64	2212519.90	2212520.17	0.0089	0.0004 *
Earth	1346-07-22 22:33 J	2212887.21	2212887.44	2212887.70	0.0089	0.0029
Moon	1346-07-23 01:26 J	2212887.32	2212887.56	2212887.82	0.0089	0.0030 *
Moon	1347-07-25 10:04 J	2213254.74	2213254.92	2213255.14	0.0089	0.0053
Earth	1347-07-25 12:14 J	2213254.80	2213255.01	2213255.22	0.0089	0.0053 *
Earth	1348-07-27 00:43 J	2213622.43	2213622.53	2213622.68	0.0089	0.0078
Moon	1348-07-27 01:11 J	2213622.43	2213622.55	2213622.69	0.0089	0.0078 *
Mars	1368-01-06 21:35 J	2220725.12	2220725.40	2220725.69	0.0089	0.0013
Mars	1369-11-30 16:04 J	2221419.03	2221419.17	2221419.36	0.0089	0.0073
Mercury	1379-03-01 19:55 J	2224797.33	2224797.33	2224797.34	0.0089	0.0089
Mercury	1379-05-28 21:35 J	2224885.35	2224885.40	2224885.45	0.0089	0.0082
Mercury	1379-08-24 23:02 J	2224973.39	2224973.46	2224973.54	0.0089	0.0074
Mercury	1379-11-21 00:14 J	2225061.44	2225061.51	2225061.62	0.0089	0.0068
Mercury	1380-02-17 02:09 J	2225149.49	2225149.59	2225149.69	0.0089	0.0060
Mercury	1380-05-15 03:35 J	2225237.54	2225237.65	2225237.76	0.0089	0.0053
Mercury	1380-08-11 05:02 J	2225325.60	2225325.71	2225325.83	0.0089	0.0045
Mercury	1380-11-07 06:28 J	2225413.65	2225413.77	2225413.90	0.0089	0.0038
Mercury	1381-02-03 07:55 J	2225501.71	2225501.83	2225501.96	0.0089	0.0031
Mercury	1381-05-02 09:35 J	2225589.77	2225589.90	2225590.03	0.0089	0.0024
Mercury	1381-07-29 11:02 J	2225677.83	2225677.96	2225678.09	0.0089	0.0016
Mercury	1381-10-25 12:28 J	2225765.89	2225766.02	2225766.16	0.0089	0.0009
Mercury	1382-01-21 13:55 J	2225853.95	2225854.08	2225854.22	0.0089	0.0002
Mercury	1382-04-19 15:21 J	2225942.01	2225942.14	2225942.28	0.0089	0.0006
Mercury	1382-07-16 16:48 J	2226030.07	2226030.20	2226030.34	0.0089	0.0013
Mercury	1382-10-12 18:14 J	2226118.13	2226118.26	2226118.40	0.0089	0.0020
Mercury	1383-01-08 19:40 J	2226206.20	2226206.32	2226206.46	0.0089	0.0027

Mercury	1383-04-06 21:07 J	2226294.26	2226294.38	2226294.51	0.0089	0.0034
Mercury	1383-07-03 22:48 J	2226382.33	2226382.45	2226382.57	0.0089	0.0041
Mercury	1383-09-30 00:14 J	2226470.39	2226470.51	2226470.62	0.0089	0.0048
Mercury	1383-12-27 01:40 J	2226558.46	2226558.57	2226558.67	0.0089	0.0055
Mercury	1384-03-24 02:38 J	2226646.53	2226646.61	2226646.72	0.0089	0.0063
Mercury	1384-06-20 04:04 J	2226734.60	2226734.67	2226734.77	0.0089	0.0070
Venus	1384-07-11 14:38 J	2226756.06	2226756.11	2226756.19	0.0089	0.0085
Mercury	1384-09-16 05:31 J	2226822.68	2226822.73	2226822.81	0.0089	0.0076
Mercury	1384-12-13 06:57 J	2226910.76	2226910.79	2226910.85	0.0089	0.0083
Venus	1385-02-22 03:50 J	2226981.54	2226981.66	2226981.82	0.0089	0.0069
Venus	1385-10-05 17:16 J	2227207.06	2227207.22	2227207.42	0.0089	0.0053
Venus	1386-05-19 06:57 J	2227432.59	2227432.79	2227432.99	0.0089	0.0036
Venus	1386-12-30 20:09 J	2227658.13	2227658.34	2227658.56	0.0089	0.0020
Venus	1387-08-13 09:50 J	2227883.69	2227883.91	2227884.13	0.0089	0.0003
Venus	1388-03-25 23:02 J	2228109.24	2228109.46	2228109.68	0.0089	0.0013
Venus	1388-11-06 12:14 J	2228334.80	2228335.01	2228335.22	0.0089	0.0030
Venus	1389-06-20 01:26 J	2228560.37	2228560.56	2228560.75	0.0089	0.0046
Venus	1390-01-31 14:24 J	2228785.96	2228786.10	2228786.27	0.0089	0.0062
Venus	1390-09-14 03:35 J	2229011.57	2229011.65	2229011.77	0.0089	0.0079
Earth	1423-01-08 22:48 J	2240816.44	2240816.45	2240816.49	0.0089	0.0088
Earth	1424-01-11 08:52 J	2241183.72	2241183.87	2241184.06	0.0089	0.0065
Moon	1424-01-11 11:45 J	2241183.84	2241183.99	2241184.19	0.0089	0.0062 *
Moon	1425-01-12 15:50 J	2241550.95	2241551.16	2241551.39	0.0089	0.0044
Earth	1425-01-12 19:26 J	2241551.10	2241551.31	2241551.55	0.0089	0.0041 *
Earth	1426-01-15 05:31 J	2241918.49	2241918.73	2241918.99	0.0089	0.0017
Moon	1426-01-15 08:52 J	2241918.63	2241918.87	2241919.13	0.0089	0.0014 *
Moon	1427-01-17 13:11 J	2242285.80	2242286.05	2242286.30	0.0089	0.0004
Earth	1427-01-17 15:50 J	2242285.91	2242286.16	2242286.42	0.0089	0.0007 *
Earth	1428-01-20 01:40 J	2242653.34	2242653.57	2242653.82	0.0089	0.0031
Moon	1428-01-20 04:19 J	2242653.44	2242653.68	2242653.92	0.0089	0.0033 *

Moon	1429-01-21 11:31 J	2243020.79	2243020.98	2243021.19	0.0089	0.0051
Earth	1429-01-21 12:00 J	2243020.81	2243021.00	2243021.21	0.0089	0.0054 *
Moon	1430-01-23 21:07 J	2243388.30	2243388.38	2243388.52	0.0089	0.0081
Earth	1430-01-23 21:50 J	2243388.31	2243388.41	2243388.55	0.0089	0.0078 *
Jupiter	1447-02-20 00:57 J	2249624.06	2249624.54	2249625.11	0.0088	0.0034
Mars	1449-11-21 12:28 J	2250629.68	2250630.02	2250630.36	0.0088	0.0002
Mercury	1462-02-11 03:50 J	2255094.60	2255094.66	2255094.74	0.0088	0.0081
Mercury	1462-05-10 06:57 J	2255182.70	2255182.79	2255182.91	0.0088	0.0072
Mercury	1462-08-06 10:04 J	2255270.80	2255270.92	2255271.06	0.0088	0.0063
Mercury	1462-11-02 13:11 J	2255358.92	2255359.05	2255359.21	0.0088	0.0054
Mercury	1463-01-29 16:19 J	2255447.03	2255447.18	2255447.35	0.0088	0.0045
Mercury	1463-04-27 19:40 J	2255535.15	2255535.32	2255535.49	0.0088	0.0035
Mercury	1463-07-24 22:48 J	2255623.28	2255623.45	2255623.63	0.0088	0.0026
Mercury	1463-10-21 01:55 J	2255711.41	2255711.58	2255711.77	0.0088	0.0017
Mercury	1464-01-17 05:16 J	2255799.53	2255799.72	2255799.91	0.0088	0.0008
Mercury	1464-04-14 08:24 J	2255887.67	2255887.85	2255888.04	0.0088	0.0002
Mercury	1464-07-11 11:45 J	2255975.80	2255975.99	2255976.17	0.0088	0.0011
Mercury	1464-10-07 14:38 J	2256063.94	2256064.11	2256064.30	0.0088	0.0021
Mercury	1465-01-03 18:00 J	2256152.08	2256152.25	2256152.43	0.0088	0.0030
Mercury	1465-04-01 21:21 J	2256240.22	2256240.39	2256240.56	0.0088	0.0039
Mercury	1465-06-29 00:14 J	2256328.37	2256328.51	2256328.68	0.0088	0.0049
Mercury	1465-09-25 03:35 J	2256416.52	2256416.65	2256416.80	0.0088	0.0058
Mercury	1465-12-22 06:43 J	2256504.68	2256504.78	2256504.92	0.0088	0.0068
Mercury	1466-03-20 10:04 J	2256592.84	2256592.92	2256593.02	0.0088	0.0077
Mercury	1466-06-16 13:40 J	2256681.04	2256681.07	2256681.10	0.0088	0.0086
Venus	1466-08-26 23:16 J	2256752.44	2256752.47	2256752.56	0.0088	0.0084
Venus	1467-04-09 12:14 J	2256977.89	2256978.01	2256978.16	0.0088	0.0068
Venus	1467-11-21 00:43 J	2257203.37	2257203.53	2257203.72	0.0088	0.0053
Venus	1468-07-03 13:40 J	2257428.87	2257429.07	2257429.27	0.0088	0.0037
Venus	1469-02-14 02:24 J	2257654.39	2257654.60	2257654.82	0.0088	0.0022

Venus	1469-09-27 15:07 J	2257879.92	2257880.13	2257880.36	0.0088	0.0007
Venus	1470-05-11 03:50 J	2258105.44	2258105.66	2258105.88	0.0088	0.0009
Venus	1470-12-22 16:19 J	2258330.98	2258331.18	2258331.40	0.0088	0.0025
Venus	1471-08-05 04:48 J	2258556.52	2258556.70	2258556.91	0.0088	0.0041
Venus	1472-03-17 17:45 J	2258782.08	2258782.24	2258782.42	0.0088	0.0056
Venus	1472-10-29 06:14 J	2259007.66	2259007.76	2259007.91	0.0088	0.0072
Venus	1473-06-11 19:11 J	2259233.29	2259233.30	2259233.34	0.0088	0.0087
Moon	1506-07-12 21:50 J	2271317.29	2271317.41	2271317.55	0.0089	0.0077
Earth	1506-07-13 01:11 J	2271317.48	2271317.55	2271317.68	0.0089	0.0082 *
Earth	1507-07-15 14:09 J	2271684.92	2271685.09	2271685.32	0.0089	0.0058
Moon	1507-07-15 17:45 J	2271685.07	2271685.24	2271685.45	0.0089	0.0062 *
Moon	1508-07-17 00:43 J	2272052.30	2272052.53	2272052.78	0.0089	0.0029
Earth	1508-07-17 03:35 J	2272052.43	2272052.65	2272052.91	0.0089	0.0034 *
Earth	1509-07-19 17:02 J	2272419.95	2272420.21	2272420.47	0.0089	0.0009
Moon	1509-07-19 18:43 J	2272420.03	2272420.28	2272420.56	0.0089	0.0014 *
Moon	1510-07-22 05:31 J	2272787.49	2272787.73	2272787.98	0.0089	0.0020
Earth	1510-07-22 06:14 J	2272787.51	2272787.76	2272788.03	0.0089	0.0016 *
Moon	1511-07-24 19:11 J	2273155.07	2273155.30	2273155.57	0.0089	0.0036
Earth	1511-07-24 19:26 J	2273155.09	2273155.31	2273155.55	0.0089	0.0040 *
Earth	1512-07-26 08:38 J	2273522.69	2273522.86	2273523.05	0.0089	0.0064
Moon	1512-07-26 10:04 J	2273522.78	2273522.92	2273523.10	0.0089	0.0069 *
Moon	1513-07-28 19:11 J	2273890.23	2273890.30	2273890.40	0.0089	0.0084
Earth	1513-07-28 21:35 J	2273890.40	2273890.40	2273890.44	0.0089	0.0089 *
Mars	1531-08-22 09:50 J	2280488.69	2280488.91	2280489.16	0.0089	0.0053
Mars	1533-07-16 03:07 J	2281182.37	2281182.63	2281182.91	0.0089	0.0033
Mercury	1543-11-26 19:26 J	2284968.29	2284968.31	2284968.36	0.0089	0.0087
Mercury	1544-02-22 21:21 J	2285056.33	2285056.39	2285056.45	0.0089	0.0079
Mercury	1544-05-20 22:33 J	2285144.37	2285144.44	2285144.53	0.0089	0.0072
Mercury	1544-08-17 00:00 J	2285232.42	2285232.50	2285232.61	0.0089	0.0065
Mercury	1544-11-13 01:40 J	2285320.47	2285320.57	2285320.68	0.0089	0.0057

Mercury	1545-02-09 03:21 J	2285408.52	2285408.64	2285408.75	0.0089	0.0050
Mercury	1545-05-08 04:48 J	2285496.58	2285496.70	2285496.82	0.0089	0.0043
Mercury	1545-08-04 06:14 J	2285584.64	2285584.76	2285584.89	0.0089	0.0035
Mercury	1545-10-31 07:40 J	2285672.69	2285672.82	2285672.95	0.0089	0.0028
Mercury	1546-01-27 09:07 J	2285760.75	2285760.88	2285761.02	0.0089	0.0021
Mercury	1546-04-25 10:48 J	2285848.81	2285848.95	2285849.08	0.0089	0.0014
Mercury	1546-07-22 12:14 J	2285936.87	2285937.01	2285937.15	0.0089	0.0007
Mercury	1546-10-18 13:40 J	2286024.93	2286025.07	2286025.21	0.0089	0.0001
Mercury	1547-01-14 15:07 J	2286113.00	2286113.13	2286113.27	0.0089	0.0008
Mercury	1547-04-12 16:33 J	2286201.06	2286201.19	2286201.33	0.0089	0.0015
Mercury	1547-07-09 18:00 J	2286289.12	2286289.25	2286289.38	0.0089	0.0022
Mercury	1547-10-05 19:26 J	2286377.18	2286377.31	2286377.44	0.0089	0.0029
Mercury	1548-01-01 20:52 J	2286465.25	2286465.37	2286465.50	0.0089	0.0036
Mercury	1548-03-29 22:19 J	2286553.32	2286553.43	2286553.55	0.0089	0.0043
Mercury	1548-06-25 23:45 J	2286641.38	2286641.49	2286641.60	0.0089	0.0051
Mercury	1548-09-22 01:11 J	2286729.45	2286729.55	2286729.66	0.0089	0.0058
Mercury	1548-12-19 02:38 J	2286817.52	2286817.61	2286817.71	0.0089	0.0065
Mercury	1549-03-17 04:04 J	2286905.59	2286905.67	2286905.75	0.0089	0.0072
Venus	1549-05-26 14:09 J	2286975.99	2286976.09	2286976.22	0.0089	0.0076
Mercury	1549-06-13 05:16 J	2286993.67	2286993.72	2286993.79	0.0089	0.0079
Mercury	1549-09-09 06:43 J	2287081.75	2287081.78	2287081.83	0.0089	0.0086
Venus	1550-01-07 03:21 J	2287201.50	2287201.64	2287201.82	0.0089	0.0060
Venus	1550-08-20 16:48 J	2287427.03	2287427.20	2287427.41	0.0089	0.0044
Venus	1551-04-03 06:28 J	2287652.57	2287652.77	2287652.99	0.0089	0.0027
Venus	1551-11-14 19:55 J	2287878.11	2287878.33	2287878.55	0.0089	0.0010
Venus	1552-06-27 09:21 J	2288103.67	2288103.89	2288104.11	0.0089	0.0006
Venus	1553-02-07 22:33 J	2288329.23	2288329.44	2288329.65	0.0089	0.0023
Venus	1553-09-21 11:31 J	2288554.80	2288554.98	2288555.19	0.0089	0.0040
Venus	1554-05-05 00:57 J	2288780.38	2288780.54	2288780.72	0.0089	0.0056
Venus	1554-12-16 14:24 J	2289005.97	2289006.10	2289006.23	0.0089	0.0072

Venus	1555-07-30 03:07 J	2289231.62	2289231.63	2289231.69	0.0089	0.0089
Moon	1588-01-20 15:50 G	2301084.06	2301084.16	2301084.29	0.0089	0.0079
Earth	1588-01-20 18:57 G	2301084.20	2301084.29	2301084.45	0.0089	0.0077 *
Earth	1589-01-22 05:31 G	2301451.54	2301451.73	2301451.95	0.0089	0.0053
Moon	1589-01-22 08:52 G	2301451.68	2301451.87	2301452.10	0.0089	0.0050 *
Moon	1590-01-24 13:40 G	2301818.84	2301819.07	2301819.30	0.0089	0.0032
Earth	1590-01-24 15:50 G	2301818.94	2301819.16	2301819.41	0.0089	0.0030 *
Earth	1591-01-27 02:24 G	2302186.34	2302186.60	2302186.85	0.0089	0.0006
Moon	1591-01-27 03:35 G	2302186.39	2302186.65	2302186.92	0.0089	0.0004 *
Moon	1592-01-29 11:45 G	2302553.76	2302553.99	2302554.24	0.0089	0.0015
Earth	1592-01-29 12:28 G	2302553.77	2302554.02	2302554.27	0.0089	0.0018 *
Moon	1593-01-30 21:21 G	2302921.17	2302921.39	2302921.63	0.0089	0.0044
Earth	1593-01-30 22:19 G	2302921.22	2302921.43	2302921.67	0.0089	0.0042 *
Earth	1594-02-02 08:24 G	2303288.69	2303288.85	2303289.04	0.0089	0.0065
Moon	1594-02-02 10:19 G	2303288.78	2303288.93	2303289.13	0.0089	0.0063 *
Earth	1595-02-04 18:43 G	2303656.27	2303656.28	2303656.32	0.0089	0.0088
Mars	1613-07-15 00:00 G	2310391.24	2310391.50	2310391.80	0.0088	0.0049
Mars	1615-06-11 03:35 G	2311087.40	2311087.65	2311087.96	0.0088	0.0049
Mercury	1626-08-21 23:02 G	2315177.45	2315177.46	2315177.50	0.0088	0.0087
Mercury	1626-11-18 02:09 G	2315265.52	2315265.59	2315265.69	0.0088	0.0078
Mercury	1627-02-14 05:16 G	2315353.62	2315353.72	2315353.85	0.0088	0.0069
Mercury	1627-05-13 08:24 G	2315441.73	2315441.85	2315442.00	0.0088	0.0060
Mercury	1627-08-09 11:31 G	2315529.85	2315529.98	2315530.15	0.0088	0.0051
Mercury	1627-11-05 14:38 G	2315617.96	2315618.11	2315618.29	0.0088	0.0042
Mercury	1628-02-01 18:14 G	2315706.09	2315706.26	2315706.43	0.0088	0.0032
Mercury	1628-04-29 21:07 G	2315794.21	2315794.38	2315794.57	0.0088	0.0023
Mercury	1628-07-27 00:28 G	2315882.34	2315882.52	2315882.71	0.0088	0.0014
Mercury	1628-10-23 03:35 G	2315970.47	2315970.65	2315970.84	0.0088	0.0005
Mercury	1629-01-19 06:57 G	2316058.60	2316058.79	2316058.97	0.0088	0.0005
Mercury	1629-04-17 10:04 G	2316146.74	2316146.92	2316147.11	0.0088	0.0014

Mercury	1629-07-14 12:57 G	2316234.87	2316235.04	2316235.23	0.0088	0.0024
Mercury	1629-10-10 16:19 G	2316323.01	2316323.18	2316323.36	0.0088	0.0033
Mercury	1630-01-06 19:40 G	2316411.16	2316411.32	2316411.49	0.0088	0.0042
Mercury	1630-04-04 22:33 G	2316499.31	2316499.44	2316499.61	0.0088	0.0052
Mercury	1630-07-02 02:09 G	2316587.46	2316587.59	2316587.73	0.0088	0.0061
Mercury	1630-09-28 05:02 G	2316675.62	2316675.71	2316675.84	0.0088	0.0071
Mercury	1630-12-25 08:24 G	2316763.79	2316763.85	2316763.94	0.0088	0.0080
Venus	1631-07-21 23:02 G	2316972.35	2316972.46	2316972.58	0.0088	0.0075
Venus	1632-03-03 11:31 G	2317197.84	2317197.98	2317198.16	0.0088	0.0060
Venus	1632-10-15 00:28 G	2317423.33	2317423.52	2317423.71	0.0088	0.0044
Venus	1633-05-28 12:57 G	2317648.84	2317649.04	2317649.26	0.0088	0.0029
Venus	1634-01-09 01:40 G	2317874.36	2317874.57	2317874.79	0.0088	0.0013
Venus	1634-08-22 14:24 G	2318099.88	2318100.10	2318100.32	0.0088	0.0003
Venus	1635-04-05 03:07 G	2318325.42	2318325.63	2318325.85	0.0088	0.0018
Venus	1635-11-16 15:35 G	2318550.96	2318551.15	2318551.36	0.0088	0.0034
Venus	1636-06-29 04:04 G	2318776.51	2318776.67	2318776.87	0.0088	0.0050
Venus	1637-02-09 17:16 G	2319002.08	2319002.22	2319002.37	0.0088	0.0065
Venus	1637-09-23 05:31 G	2319227.67	2319227.73	2319227.84	0.0088	0.0081
Moon	1671-07-24 19:55 G	2331585.18	2331585.33	2331585.48	0.0089	0.0071
Earth	1671-07-24 21:35 G	2331585.26	2331585.40	2331585.58	0.0089	0.0070 *
Earth	1672-07-26 10:33 G	2331952.74	2331952.94	2331953.18	0.0089	0.0046
Moon	1672-07-26 12:14 G	2331952.80	2331953.01	2331953.26	0.0089	0.0046 *
Earth	1673-07-29 00:00 G	2332320.26	2332320.50	2332320.76	0.0089	0.0022
Moon	1673-07-28 23:45 G	2332320.26	2332320.49	2332320.75	0.0089	0.0023 *
Moon	1674-07-31 12:14 G	2332687.74	2332688.01	2332688.28	0.0089	0.0004
Earth	1674-07-31 13:26 G	2332687.80	2332688.06	2332688.32	0.0089	0.0003 *
Earth	1675-08-03 02:24 G	2333055.35	2333055.60	2333055.85	0.0089	0.0027
Moon	1675-08-03 04:04 G	2333055.44	2333055.67	2333055.92	0.0089	0.0027 *
Moon	1676-08-04 12:00 G	2333422.81	2333423.00	2333423.24	0.0089	0.0052
Earth	1676-08-04 15:35 G	2333422.95	2333423.15	2333423.37	0.0089	0.0051 *

Earth	1677-08-07 04:48 G	2333790.57	2333790.70	2333790.85	0.0089	0.0075
Moon	1677-08-07 07:55 G	2333790.72	2333790.83	2333790.99	0.0089	0.0075 *
Mars	1697-03-10 12:43 G	2340945.75	2340946.03	2340946.33	0.0089	0.0008
Mars	1699-02-02 05:45 G	2341639.63	2341639.74	2341639.92	0.0089	0.0079
Mercury	1708-09-02 19:11 G	2345139.26	2345139.30	2345139.36	0.0089	0.0084
Mercury	1708-11-29 20:38 G	2345227.30	2345227.36	2345227.44	0.0089	0.0077
Mercury	1709-02-25 22:04 G	2345315.35	2345315.42	2345315.52	0.0089	0.0070
Mercury	1709-05-24 23:45 G	2345403.40	2345403.49	2345403.60	0.0089	0.0062
Mercury	1709-08-21 01:11 G	2345491.45	2345491.55	2345491.67	0.0089	0.0055
Mercury	1709-11-17 02:38 G	2345579.51	2345579.61	2345579.74	0.0089	0.0048
Mercury	1710-02-13 04:33 G	2345667.56	2345667.69	2345667.81	0.0089	0.0040
Mercury	1710-05-12 06:00 G	2345755.62	2345755.75	2345755.88	0.0089	0.0033
Mercury	1710-08-08 07:26 G	2345843.68	2345843.81	2345843.94	0.0089	0.0025
Mercury	1710-11-04 08:52 G	2345931.74	2345931.87	2345932.01	0.0089	0.0018
Mercury	1711-01-31 10:19 G	2346019.80	2346019.93	2346020.07	0.0089	0.0011
Mercury	1711-04-29 12:00 G	2346107.86	2346108.00	2346108.13	0.0089	0.0005
Mercury	1711-07-26 13:26 G	2346195.92	2346196.06	2346196.19	0.0089	0.0004
Mercury	1711-10-22 14:52 G	2346283.98	2346284.12	2346284.25	0.0089	0.0011
Mercury	1712-01-18 16:19 G	2346372.04	2346372.18	2346372.31	0.0089	0.0018
Mercury	1712-04-15 17:45 G	2346460.11	2346460.24	2346460.37	0.0089	0.0025
Mercury	1712-07-12 19:11 G	2346548.17	2346548.30	2346548.43	0.0089	0.0032
Mercury	1712-10-08 20:24 G	2346636.24	2346636.35	2346636.48	0.0089	0.0039
Mercury	1713-01-04 21:50 G	2346724.30	2346724.41	2346724.54	0.0089	0.0046
Mercury	1713-04-02 23:16 G	2346812.37	2346812.47	2346812.59	0.0089	0.0053
Mercury	1713-06-30 00:43 G	2346900.44	2346900.53	2346900.64	0.0089	0.0060
Venus	1713-09-08 00:00 G	2346970.45	2346970.50	2346970.60	0.0089	0.0084
Mercury	1713-09-26 02:09 G	2346988.51	2346988.59	2346988.69	0.0089	0.0067
Mercury	1713-12-23 03:35 G	2347076.58	2347076.65	2347076.73	0.0089	0.0074
Mercury	1714-03-21 04:48 G	2347164.66	2347164.70	2347164.77	0.0089	0.0082
Venus	1714-04-21 13:11 G	2347195.93	2347196.05	2347196.22	0.0089	0.0068



Mercury	1714-06-17 06:14 G	2347252.76	2347252.76	2347252.80	0.0089	0.0089
Venus	1714-12-03 02:52 G	2347421.45	2347421.62	2347421.82	0.0089	0.0051
Venus	1715-07-16 16:19 G	2347646.99	2347647.18	2347647.40	0.0089	0.0034
Venus	1716-02-27 06:00 G	2347872.54	2347872.75	2347872.97	0.0089	0.0017
Venus	1716-10-09 19:26 G	2348098.09	2348098.31	2348098.53	0.0089	0.0001
Venus	1717-05-23 08:38 G	2348323.65	2348323.86	2348324.08	0.0089	0.0016
Venus	1718-01-03 21:35 G	2348549.21	2348549.40	2348549.62	0.0089	0.0033
Venus	1718-08-17 11:16 G	2348774.79	2348774.97	2348775.16	0.0089	0.0049
Venus	1719-03-31 00:14 G	2349000.38	2349000.51	2349000.68	0.0089	0.0065
Venus	1719-11-11 13:26 G	2349225.99	2349226.06	2349226.17	0.0089	0.0082
Earth	1752-01-21 05:31 G	2360984.71	2360984.73	2360984.76	0.0089	0.0088
Moon	1753-01-22 13:11 G	2361351.89	2361352.05	2361352.24	0.0089	0.0062
Earth	1753-01-22 15:50 G	2361351.99	2361352.16	2361352.33	0.0089	0.0065 *
Earth	1754-01-25 01:40 G	2361719.36	2361719.57	2361719.81	0.0089	0.0042
Moon	1754-01-25 02:52 G	2361719.41	2361719.62	2361719.86	0.0089	0.0046 *
Earth	1755-01-27 12:14 G	2362086.77	2362087.01	2362087.27	0.0089	0.0019
Moon	1755-01-27 12:43 G	2362086.79	2362087.03	2362087.28	0.0089	0.0015 *
Moon	1756-01-29 21:21 G	2362454.13	2362454.39	2362454.66	0.0089	0.0002
Earth	1756-01-29 22:33 G	2362454.19	2362454.44	2362454.70	0.0089	0.0005 *
Earth	1757-01-31 08:09 G	2362821.62	2362821.84	2362822.10	0.0089	0.0029
Moon	1757-01-31 10:48 G	2362821.73	2362821.95	2362822.20	0.0089	0.0033 *
Moon	1758-02-02 14:52 G	2363188.93	2363189.12	2363189.36	0.0089	0.0048
Earth	1758-02-02 18:28 G	2363189.08	2363189.27	2363189.49	0.0089	0.0052 *
Earth	1759-02-05 04:33 G	2363556.57	2363556.69	2363556.84	0.0089	0.0075
Moon	1759-02-05 08:24 G	2363556.73	2363556.85	2363556.96	0.0089	0.0078 *
Mars	1779-01-23 15:07 G	2370848.79	2370849.13	2370849.48	0.0088	0.0002
Mercury	1791-05-19 21:35 G	2375348.36	2375348.40	2375348.45	0.0088	0.0084
Mercury	1791-08-16 00:43 G	2375436.44	2375436.53	2375436.63	0.0088	0.0075
Mercury	1791-11-12 03:50 G	2375524.54	2375524.66	2375524.78	0.0088	0.0066
Mercury	1792-02-08 06:43 G	2375612.65	2375612.78	2375612.93	0.0088	0.0057

Mercury	1792-05-06 09:50 G	2375700.77	2375700.91	2375701.08	0.0088	0.0048
Mercury	1792-08-02 12:57 G	2375788.89	2375789.04	2375789.22	0.0088	0.0039
Mercury	1792-10-29 16:04 G	2375877.01	2375877.17	2375877.36	0.0088	0.0030
Mercury	1793-01-25 19:26 G	2375965.13	2375965.31	2375965.49	0.0088	0.0021
Mercury	1793-04-23 22:48 G	2376053.26	2376053.45	2376053.63	0.0088	0.0011
Mercury	1793-07-21 01:55 G	2376141.39	2376141.58	2376141.76	0.0088	0.0002
Mercury	1793-10-17 05:02 G	2376229.52	2376229.71	2376229.90	0.0088	0.0007
Mercury	1794-01-13 08:09 G	2376317.66	2376317.84	2376318.03	0.0088	0.0017
Mercury	1794-04-11 11:16 G	2376405.80	2376405.97	2376406.16	0.0088	0.0026
Mercury	1794-07-08 14:38 G	2376493.94	2376494.11	2376494.28	0.0088	0.0035
Mercury	1794-10-04 17:31 G	2376582.09	2376582.23	2376582.41	0.0088	0.0045
Mercury	1794-12-31 20:52 G	2376670.23	2376670.37	2376670.53	0.0088	0.0054
Mercury	1795-03-30 00:00 G	2376758.39	2376758.50	2376758.65	0.0088	0.0064
Mercury	1795-06-26 03:21 G	2376846.55	2376846.64	2376846.76	0.0088	0.0073
Mercury	1795-09-22 06:28 G	2376934.73	2376934.77	2376934.85	0.0088	0.0083
Venus	1795-10-24 08:52 G	2376966.82	2376966.87	2376966.96	0.0088	0.0083
Venus	1796-06-05 21:21 G	2377192.28	2377192.39	2377192.55	0.0088	0.0068
Venus	1797-01-17 10:19 G	2377417.77	2377417.93	2377418.12	0.0088	0.0052
Venus	1797-08-30 23:02 G	2377643.27	2377643.46	2377643.67	0.0088	0.0036
Venus	1798-04-13 11:31 G	2377868.78	2377868.98	2377869.21	0.0088	0.0021
Venus	1798-11-25 00:28 G	2378094.30	2378094.52	2378094.74	0.0088	0.0005
Venus	1799-07-08 12:57 G	2378319.83	2378320.04	2378320.27	0.0088	0.0011
Venus	1800-02-19 01:40 G	2378545.37	2378545.57	2378545.79	0.0088	0.0027
Venus	1800-10-02 14:24 G	2378770.91	2378771.10	2378771.30	0.0088	0.0042
Venus	1801-05-16 02:52 G	2378996.47	2378996.62	2378996.80	0.0088	0.0058
Venus	1801-12-27 15:21 G	2379222.04	2379222.14	2379222.28	0.0088	0.0074
Moon	1835-07-26 04:04 G	2391485.55	2391485.67	2391485.81	0.0089	0.0078
Earth	1835-07-26 03:07 G	2391485.57	2391485.63	2391485.76	0.0089	0.0083 *
Earth	1836-07-27 16:33 G	2391853.02	2391853.19	2391853.41	0.0089	0.0059
Moon	1836-07-27 17:02 G	2391853.05	2391853.21	2391853.41	0.0089	0.0063 *

Moon	1837-07-30 04:04 G	2392220.44	2392220.67	2392220.95	0.0089	0.0031
Earth	1837-07-30 06:00 G	2392220.52	2392220.75	2392221.00	0.0089	0.0035 *
Earth	1838-08-01 19:11 G	2392588.04	2392588.30	2392588.56	0.0089	0.0011
Moon	1838-08-01 22:04 G	2392588.17	2392588.42	2392588.67	0.0089	0.0015 *
Moon	1839-08-04 05:02 G	2392955.46	2392955.71	2392955.98	0.0089	0.0018
Earth	1839-08-04 08:24 G	2392955.59	2392955.85	2392956.11	0.0089	0.0013 *
Earth	1840-08-05 21:07 G	2393323.16	2393323.38	2393323.64	0.0089	0.0038
Moon	1840-08-06 00:57 G	2393323.31	2393323.54	2393323.80	0.0089	0.0033 *
Moon	1841-08-08 06:57 G	2393690.64	2393690.79	2393690.99	0.0089	0.0066
Earth	1841-08-08 10:33 G	2393690.76	2393690.94	2393691.14	0.0089	0.0061 *
Earth	1842-08-10 23:31 G	2394058.43	2394058.48	2394058.58	0.0089	0.0085
Moon	1842-08-11 02:24 G	2394058.52	2394058.60	2394058.74	0.0089	0.0081 *
Mars	1860-10-25 20:24 G	2400709.14	2400709.35	2400709.62	0.0089	0.0050
Mars	1862-09-19 15:07 G	2401402.88	2401403.13	2401403.41	0.0089	0.0037
Mercury	1873-03-04 17:16 G	2405222.21	2405222.22	2405222.23	0.0089	0.0089
Mercury	1873-05-31 18:43 G	2405310.23	2405310.28	2405310.34	0.0089	0.0082
Mercury	1873-08-27 20:09 G	2405398.27	2405398.34	2405398.42	0.0089	0.0074
Mercury	1873-11-23 21:50 G	2405486.32	2405486.41	2405486.50	0.0089	0.0067
Mercury	1874-02-19 23:16 G	2405574.37	2405574.47	2405574.58	0.0089	0.0060
Mercury	1874-05-19 00:43 G	2405662.43	2405662.53	2405662.65	0.0089	0.0053
Mercury	1874-08-15 02:09 G	2405750.48	2405750.59	2405750.72	0.0089	0.0045
Mercury	1874-11-11 03:50 G	2405838.54	2405838.66	2405838.79	0.0089	0.0038
Mercury	1875-02-07 05:16 G	2405926.60	2405926.72	2405926.85	0.0089	0.0031
Mercury	1875-05-06 06:43 G	2406014.66	2406014.78	2406014.92	0.0089	0.0024
Mercury	1875-08-02 08:24 G	2406102.71	2406102.85	2406102.98	0.0089	0.0016
Mercury	1875-10-29 09:50 G	2406190.77	2406190.91	2406191.05	0.0089	0.0009
Mercury	1876-01-25 11:16 G	2406278.84	2406278.97	2406279.11	0.0089	0.0002
Mercury	1876-04-22 12:43 G	2406366.90	2406367.03	2406367.17	0.0089	0.0006
Mercury	1876-07-19 14:24 G	2406454.96	2406455.10	2406455.23	0.0089	0.0013
Mercury	1876-10-15 15:50 G	2406543.02	2406543.16	2406543.29	0.0089	0.0020

Mercury	1877-01-11 17:16 G	2406631.09	2406631.22	2406631.35	0.0089	0.0027
Mercury	1877-04-09 18:43 G	2406719.15	2406719.28	2406719.40	0.0089	0.0034
Mercury	1877-07-06 19:55 G	2406807.22	2406807.33	2406807.46	0.0089	0.0041
Mercury	1877-10-02 21:21 G	2406895.28	2406895.39	2406895.51	0.0089	0.0048
Mercury	1877-12-29 22:48 G	2406983.35	2406983.45	2406983.56	0.0089	0.0055
Mercury	1878-03-28 00:14 G	2407071.42	2407071.51	2407071.61	0.0089	0.0062
Mercury	1878-06-24 01:26 G	2407159.49	2407159.56	2407159.66	0.0089	0.0070
Venus	1878-07-24 22:33 G	2407190.35	2407190.44	2407190.59	0.0089	0.0076
Mercury	1878-09-20 02:52 G	2407247.57	2407247.62	2407247.70	0.0089	0.0077
Mercury	1878-12-17 04:19 G	2407335.65	2407335.68	2407335.74	0.0089	0.0084
Venus	1879-03-07 12:14 G	2407415.86	2407416.01	2407416.19	0.0089	0.0059
Venus	1879-10-19 01:26 G	2407641.39	2407641.56	2407641.78	0.0089	0.0043
Venus	1880-05-31 15:07 G	2407866.93	2407867.13	2407867.35	0.0089	0.0025
Venus	1881-01-12 04:33 G	2408092.47	2408092.69	2408092.91	0.0089	0.0009
Venus	1881-08-25 18:00 G	2408318.04	2408318.25	2408318.48	0.0089	0.0008
Venus	1882-04-08 07:26 G	2408543.60	2408543.81	2408544.02	0.0089	0.0024
Venus	1882-11-19 20:24 G	2408769.17	2408769.35	2408769.56	0.0089	0.0042
Venus	1883-07-03 09:50 G	2408994.76	2408994.91	2408995.09	0.0089	0.0058
Venus	1884-02-13 22:48 G	2409220.36	2409220.45	2409220.60	0.0089	0.0075
Earth	1917-01-24 00:14 G	2421252.42	2421252.51	2421252.66	0.0089	0.0078
Moon	1917-01-24 01:11 G	2421252.45	2421252.55	2421252.68	0.0089	0.0079 *
Earth	1918-01-26 10:33 G	2421619.77	2421619.94	2421620.17	0.0089	0.0055
Moon	1918-01-26 11:02 G	2421619.79	2421619.96	2421620.19	0.0089	0.0053 *
Moon	1919-01-28 18:57 G	2421987.06	2421987.29	2421987.55	0.0089	0.0033
Earth	1919-01-28 21:21 G	2421987.16	2421987.39	2421987.64	0.0089	0.0031 *
Earth	1920-01-31 07:40 G	2422354.57	2422354.82	2422355.07	0.0089	0.0008
Moon	1920-01-31 10:19 G	2422354.68	2422354.93	2422355.18	0.0089	0.0006 *
Moon	1921-02-01 14:38 G	2422721.85	2422722.11	2422722.36	0.0089	0.0013
Earth	1921-02-01 17:45 G	2422722.00	2422722.24	2422722.50	0.0089	0.0016 *
Earth	1922-02-04 03:50 G	2423089.45	2423089.66	2423089.90	0.0089	0.0039

Moon	1922-02-04 07:26 G	2423089.60	2423089.81	2423090.05	0.0089	0.0041	*
Moon	1923-02-06 10:48 G	2423456.79	2423456.95	2423457.16	0.0089	0.0060	
Earth	1923-02-06 13:55 G	2423456.92	2423457.08	2423457.28	0.0089	0.0062	*
Earth	1924-02-08 23:45 G	2423824.45	2423824.49	2423824.59	0.0089	0.0085	
Moon	1924-02-09 02:24 G	2423824.59	2423824.60	2423824.68	0.0089	0.0088	*
Mars	1942-09-07 23:02 G	2430610.19	2430610.46	2430610.77	0.0088	0.0047	
Mars	1944-08-04 03:21 G	2431306.39	2431306.64	2431306.95	0.0088	0.0052	
Mercury	1956-02-15 19:26 G	2435519.26	2435519.31	2435519.39	0.0088	0.0082	
Mercury	1956-05-13 22:33 G	2435607.35	2435607.44	2435607.55	0.0088	0.0073	
Mercury	1956-08-10 01:40 G	2435695.46	2435695.57	2435695.70	0.0088	0.0064	
Mercury	1956-11-06 04:48 G	2435783.57	2435783.70	2435783.85	0.0088	0.0055	
Mercury	1957-02-02 07:55 G	2435871.68	2435871.83	2435871.99	0.0088	0.0046	
Mercury	1957-05-01 11:02 G	2435959.80	2435959.96	2435960.14	0.0088	0.0037	
Mercury	1957-07-28 14:09 G	2436047.92	2436048.09	2436048.27	0.0088	0.0028	
Mercury	1957-10-24 17:16 G	2436136.05	2436136.22	2436136.41	0.0088	0.0019	
Mercury	1958-01-20 20:38 G	2436224.18	2436224.36	2436224.55	0.0088	0.0009	
Mercury	1958-04-18 23:45 G	2436312.31	2436312.49	2436312.68	0.0088	0.0001	
Mercury	1958-07-16 02:52 G	2436400.44	2436400.62	2436400.81	0.0088	0.0010	
Mercury	1958-10-12 06:00 G	2436488.58	2436488.75	2436488.94	0.0088	0.0019	
Mercury	1959-01-08 09:21 G	2436576.72	2436576.89	2436577.07	0.0088	0.0028	
Mercury	1959-04-06 12:28 G	2436664.86	2436665.02	2436665.20	0.0088	0.0037	
Mercury	1959-07-03 15:35 G	2436753.00	2436753.15	2436753.32	0.0088	0.0047	
Mercury	1959-09-29 18:57 G	2436841.15	2436841.29	2436841.44	0.0088	0.0056	
Mercury	1959-12-26 21:50 G	2436929.31	2436929.41	2436929.55	0.0088	0.0066	
Mercury	1960-03-24 01:11 G	2437017.47	2437017.55	2437017.66	0.0088	0.0075	
Mercury	1960-06-20 04:48 G	2437105.65	2437105.70	2437105.75	0.0088	0.0084	
Venus	1960-09-09 07:40 G	2437186.71	2437186.82	2437186.93	0.0088	0.0075	
Venus	1961-04-22 19:55 G	2437412.19	2437412.33	2437412.51	0.0088	0.0060	
Venus	1961-12-04 08:38 G	2437637.68	2437637.86	2437638.06	0.0088	0.0044	
Venus	1962-07-17 21:35 G	2437863.19	2437863.40	2437863.61	0.0088	0.0028	

Venus	1963-02-28 10:19 G	2438088.72	2438088.93	2438089.15	0.0088	0.0013
Venus	1963-10-11 23:02 G	2438314.24	2438314.46	2438314.68	0.0088	0.0003
Venus	1964-05-24 11:31 G	2438539.77	2438539.98	2438540.20	0.0088	0.0019
Venus	1965-01-05 00:00 G	2438765.31	2438765.50	2438765.71	0.0088	0.0035
Venus	1965-08-18 12:28 G	2438990.86	2438991.02	2438991.22	0.0088	0.0051
Venus	1966-04-01 01:40 G	2439216.43	2439216.57	2439216.71	0.0088	0.0066
Venus	1966-11-12 13:55 G	2439442.02	2439442.08	2439442.17	0.0088	0.0082
Moon	2000-07-27 19:40 G	2451753.19	2451753.32	2451753.49	0.0089	0.0074
Earth	2000-07-27 21:50 G	2451753.29	2451753.41	2451753.59	0.0089	0.0072 *

# 3RD MILLENNIUM CE

This is a list of transits visible from Neptune in the 3rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	2001-07-30 11:16 G		2452120.76	2452120.97	2452121.20	0.0089	0.0048	
Moon	2001-07-30 13:55 G		2452120.89	2452121.08	2452121.32	0.0089	0.0047	*
Moon	2002-08-01 20:38 G		2452488.12	2452488.36	2452488.62	0.0089	0.0027	
Earth	2002-08-02 00:43 G		2452488.28	2452488.53	2452488.78	0.0089	0.0024	*
Earth	2003-08-04 13:40 G		2452855.81	2452856.07	2452856.33	0.0089	0.0000	
Moon	2003-08-04 17:16 G		2452855.95	2452856.22	2452856.48	0.0089	0.0002	*
Moon	2004-08-05 23:02 G		2453223.23	2453223.46	2453223.73	0.0089	0.0023	
Earth	2004-08-06 02:38 G		2453223.37	2453223.61	2453223.87	0.0089	0.0024	*
Earth	2005-08-08 15:35 G		2453590.94	2453591.15	2453591.39	0.0089	0.0047	
Moon	2005-08-08 17:45 G		2453591.04	2453591.24	2453591.49	0.0089	0.0049	*

Moon	2006-08-11 03:07 G	2453958.50	2453958.63	2453958.81	0.0089	0.0070
Earth	2006-08-11 04:33 G	2453958.55	2453958.69	2453958.87	0.0089	0.0071 *
Mars	2026-05-05 21:35 G	2461166.12	2461166.40	2461166.70	0.0089	0.0006
Mars	2028-03-29 14:52 G	2461860.03	2461860.12	2461860.28	0.0089	0.0081
Mercury	2037-11-30 16:19 G	2465393.17	2465393.18	2465393.22	0.0089	0.0087
Mercury	2038-02-26 18:14 G	2465481.20	2465481.26	2465481.32	0.0089	0.0080
Mercury	2038-05-25 19:26 G	2465569.24	2465569.31	2465569.40	0.0089	0.0073
Mercury	2038-08-21 20:52 G	2465657.29	2465657.37	2465657.48	0.0089	0.0066
Mercury	2038-11-17 22:48 G	2465745.34	2465745.45	2465745.55	0.0089	0.0058
Mercury	2039-02-14 00:14 G	2465833.40	2465833.51	2465833.62	0.0089	0.0051
Mercury	2039-05-13 01:40 G	2465921.45	2465921.57	2465921.69	0.0089	0.0043
Mercury	2039-08-09 03:07 G	2466009.51	2466009.63	2466009.76	0.0089	0.0036
Mercury	2039-11-05 04:48 G	2466097.57	2466097.70	2466097.83	0.0089	0.0029
Mercury	2040-02-01 06:14 G	2466185.63	2466185.76	2466185.89	0.0089	0.0022
Mercury	2040-04-29 07:40 G	2466273.69	2466273.82	2466273.96	0.0089	0.0015
Mercury	2040-07-26 09:07 G	2466361.75	2466361.88	2466362.02	0.0089	0.0008
Mercury	2040-10-22 10:48 G	2466449.81	2466449.95	2466450.08	0.0089	0.0002
Mercury	2041-01-18 12:14 G	2466537.87	2466538.01	2466538.14	0.0089	0.0007
Mercury	2041-04-16 13:40 G	2466625.93	2466626.07	2466626.20	0.0089	0.0014
Mercury	2041-07-13 15:07 G	2466714.00	2466714.13	2466714.26	0.0089	0.0021
Mercury	2041-10-09 16:33 G	2466802.06	2466802.19	2466802.32	0.0089	0.0028
Mercury	2042-01-05 18:00 G	2466890.13	2466890.25	2466890.38	0.0089	0.0036
Mercury	2042-04-03 19:26 G	2466978.19	2466978.31	2466978.43	0.0089	0.0043
Mercury	2042-06-30 20:52 G	2467066.26	2467066.37	2467066.48	0.0089	0.0050
Mercury	2042-09-26 22:19 G	2467154.33	2467154.43	2467154.53	0.0089	0.0057
Venus	2042-10-27 07:55 G	2467184.77	2467184.83	2467184.92	0.0089	0.0084
Mercury	2042-12-23 23:45 G	2467242.40	2467242.49	2467242.58	0.0089	0.0064
Mercury	2043-03-22 01:11 G	2467330.47	2467330.55	2467330.63	0.0089	0.0071
Venus	2043-06-09 20:52 G	2467410.25	2467410.37	2467410.54	0.0089	0.0068
Mercury	2043-06-18 02:24 G	2467418.55	2467418.60	2467418.67	0.0089	0.0078

Mercury	2043-09-14 03:50 G	2467506.63	2467506.66	2467506.71	0.0089	0.0085
Venus	2044-01-21 10:33 G	2467635.77	2467635.94	2467636.13	0.0089	0.0051
Venus	2044-09-03 00:14 G	2467861.31	2467861.51	2467861.71	0.0089	0.0034
Venus	2045-04-16 13:26 G	2468086.85	2468087.06	2468087.28	0.0089	0.0017
Venus	2045-11-28 02:52 G	2468312.40	2468312.62	2468312.84	0.0089	0.0000
Venus	2046-07-11 16:04 G	2468537.96	2468538.17	2468538.39	0.0089	0.0016
Venus	2047-02-22 05:31 G	2468763.53	2468763.73	2468763.94	0.0089	0.0033
Venus	2047-10-05 18:43 G	2468989.11	2468989.28	2468989.47	0.0089	0.0050
Venus	2048-05-18 07:40 G	2469214.70	2469214.82	2469214.99	0.0089	0.0067
Venus	2048-12-29 21:21 G	2469440.32	2469440.39	2469440.48	0.0089	0.0083
Saturn	2061-05-29 11:16 G	2473973.50	2473973.97	2473974.55	0.0089	0.0054
Moon	2082-01-25 17:16 G	2481520.06	2481520.22	2481520.43	0.0089	0.0063
Earth	2082-01-25 19:40 G	2481520.17	2481520.32	2481520.50	0.0089	0.0067 *
Earth	2083-01-28 05:45 G	2481887.53	2481887.74	2481887.97	0.0089	0.0044
Moon	2083-01-28 08:52 G	2481887.68	2481887.87	2481888.09	0.0089	0.0049 *
Moon	2084-01-30 12:28 G	2482254.78	2482255.02	2482255.28	0.0089	0.0017
Earth	2084-01-30 16:04 G	2482254.93	2482255.17	2482255.42	0.0089	0.0021 *
Earth	2085-02-01 02:09 G	2482622.34	2482622.59	2482622.85	0.0089	0.0003
Moon	2085-02-01 05:45 G	2482622.49	2482622.74	2482623.00	0.0089	0.0002 *
Moon	2086-02-03 09:21 G	2482989.67	2482989.89	2482990.14	0.0089	0.0030
Earth	2086-02-03 12:28 G	2482989.78	2482990.02	2482990.27	0.0089	0.0025 *
Earth	2087-02-05 22:33 G	2483357.24	2483357.44	2483357.66	0.0089	0.0048
Moon	2087-02-06 00:28 G	2483357.30	2483357.52	2483357.75	0.0089	0.0044 *
Moon	2088-02-08 07:26 G	2483724.70	2483724.81	2483724.96	0.0089	0.0075
Earth	2088-02-08 08:24 G	2483724.72	2483724.85	2483725.02	0.0089	0.0071 *
Mars	2108-03-18 11:45 G	2491067.66	2491067.99	2491068.34	0.0088	0.0004
Mercury	2120-11-12 17:02 G	2495690.16	2495690.21	2495690.30	0.0088	0.0081
Mercury	2121-02-08 20:09 G	2495778.25	2495778.34	2495778.46	0.0088	0.0072
Mercury	2121-05-07 23:16 G	2495866.36	2495866.47	2495866.61	0.0088	0.0063
Mercury	2121-08-04 02:24 G	2495954.47	2495954.60	2495954.76	0.0088	0.0054



Mercury	2121-10-31 05:31 G	2496042.59	2496042.73	2496042.90	0.0088	0.0045
Mercury	2122-01-27 08:38 G	2496130.70	2496130.86	2496131.04	0.0088	0.0036
Mercury	2122-04-25 11:45 G	2496218.83	2496218.99	2496219.18	0.0088	0.0027
Mercury	2122-07-22 15:07 G	2496306.95	2496307.13	2496307.31	0.0088	0.0017
Mercury	2122-10-18 18:14 G	2496395.08	2496395.26	2496395.45	0.0088	0.0008
Mercury	2123-01-14 21:21 G	2496483.21	2496483.39	2496483.58	0.0088	0.0003
Mercury	2123-04-13 00:28 G	2496571.34	2496571.52	2496571.71	0.0088	0.0011
Mercury	2123-07-10 03:35 G	2496659.48	2496659.65	2496659.84	0.0088	0.0020
Mercury	2123-10-06 06:57 G	2496747.62	2496747.79	2496747.97	0.0088	0.0029
Mercury	2124-01-02 09:50 G	2496835.76	2496835.91	2496836.09	0.0088	0.0039
Mercury	2124-03-30 13:11 G	2496923.90	2496924.05	2496924.22	0.0088	0.0048
Mercury	2124-06-26 16:33 G	2497012.05	2497012.19	2497012.34	0.0088	0.0057
Mercury	2124-09-22 19:26 G	2497100.21	2497100.31	2497100.45	0.0088	0.0067
Venus	2124-12-12 16:04 G	2497181.13	2497181.17	2497181.25	0.0088	0.0084
Mercury	2124-12-19 22:48 G	2497188.37	2497188.45	2497188.56	0.0088	0.0076
Mercury	2125-03-18 01:55 G	2497276.56	2497276.58	2497276.64	0.0088	0.0086
Venus	2125-07-26 05:02 G	2497406.58	2497406.71	2497406.86	0.0088	0.0068
Venus	2126-03-08 18:00 G	2497632.08	2497632.25	2497632.43	0.0088	0.0052
Venus	2126-10-20 06:28 G	2497857.58	2497857.77	2497857.98	0.0088	0.0037
Venus	2127-06-02 19:11 G	2498083.09	2498083.30	2498083.52	0.0088	0.0021
Venus	2128-01-14 07:55 G	2498308.61	2498308.83	2498309.05	0.0088	0.0005
Venus	2128-08-26 20:38 G	2498534.14	2498534.36	2498534.58	0.0088	0.0011
Venus	2129-04-09 09:07 G	2498759.68	2498759.88	2498760.10	0.0088	0.0027
Venus	2129-11-20 21:35 G	2498985.22	2498985.40	2498985.61	0.0088	0.0043
Venus	2130-07-04 10:04 G	2499210.78	2499210.92	2499211.11	0.0088	0.0059
Venus	2131-02-14 23:16 G	2499436.36	2499436.47	2499436.59	0.0088	0.0074
Earth	2164-07-28 01:40 G	2511653.52	2511653.57	2511653.67	0.0088	0.0085
Moon	2164-07-28 05:02 G	2511653.64	2511653.71	2511653.84	0.0088	0.0082 *
Moon	2165-07-30 11:45 G	2512020.82	2512020.99	2512021.18	0.0089	0.0065
Earth	2165-07-30 15:35 G	2512020.96	2512021.15	2512021.34	0.0089	0.0061 *

Earth	2166-08-02 04:19 G	2512388.45	2512388.68	2512388.93	0.0089	0.0038
Moon	2166-08-02 07:55 G	2512388.60	2512388.83	2512389.09	0.0089	0.0034 *
Moon	2167-08-04 15:21 G	2512755.89	2512756.14	2512756.39	0.0089	0.0018
Earth	2167-08-04 17:45 G	2512755.99	2512756.24	2512756.50	0.0089	0.0014 *
Earth	2168-08-06 06:57 G	2513123.53	2513123.79	2513124.05	0.0089	0.0009
Moon	2168-08-06 08:52 G	2513123.62	2513123.87	2513124.15	0.0089	0.0014 *
Moon	2169-08-08 19:11 G	2513491.07	2513491.30	2513491.55	0.0089	0.0029
Earth	2169-08-08 19:55 G	2513491.09	2513491.33	2513491.58	0.0089	0.0033 *
Moon	2170-08-11 07:55 G	2513858.65	2513858.83	2513859.05	0.0089	0.0060
Earth	2170-08-11 09:07 G	2513858.68	2513858.88	2513859.09	0.0089	0.0056 *
Earth	2171-08-13 21:50 G	2514226.32	2514226.41	2514226.55	0.0089	0.0080
Moon	2171-08-13 23:16 G	2514226.36	2514226.47	2514226.62	0.0089	0.0076 *
Jupiter	2188-08-08 06:43 G	2520430.34	2520430.78	2520431.28	0.0089	0.0039
Mars	2189-12-20 04:19 G	2520929.46	2520929.68	2520929.94	0.0089	0.0049
Mars	2191-11-13 20:38 G	2521623.10	2521623.36	2521623.63	0.0089	0.0037
Mercury	2202-08-29 15:21 G	2525564.12	2525564.14	2525564.19	0.0089	0.0087
Mercury	2202-11-25 17:16 G	2525652.16	2525652.22	2525652.28	0.0089	0.0079
Mercury	2203-02-21 18:43 G	2525740.20	2525740.28	2525740.36	0.0089	0.0072
Mercury	2203-05-20 20:09 G	2525828.25	2525828.34	2525828.44	0.0089	0.0064
Mercury	2203-08-16 21:50 G	2525916.30	2525916.41	2525916.52	0.0089	0.0057
Mercury	2203-11-12 23:16 G	2526004.36	2526004.47	2526004.59	0.0089	0.0050
Mercury	2204-02-09 00:43 G	2526092.42	2526092.53	2526092.66	0.0089	0.0043
Mercury	2204-05-07 02:09 G	2526180.47	2526180.59	2526180.73	0.0089	0.0036
Mercury	2204-08-03 03:50 G	2526268.53	2526268.66	2526268.79	0.0089	0.0028
Mercury	2204-10-30 05:16 G	2526356.59	2526356.72	2526356.86	0.0089	0.0021
Mercury	2205-01-26 06:57 G	2526444.65	2526444.79	2526444.93	0.0089	0.0013
Mercury	2205-04-24 08:24 G	2526532.71	2526532.85	2526532.99	0.0089	0.0006
Mercury	2205-07-21 09:50 G	2526620.78	2526620.91	2526621.05	0.0089	0.0002
Mercury	2205-10-17 11:16 G	2526708.84	2526708.97	2526709.11	0.0089	0.0009
Mercury	2206-01-13 12:43 G	2526796.90	2526797.03	2526797.17	0.0089	0.0016

Mercury	2206-04-11 14:24 G	2526884.96	2526885.10	2526885.23	0.0089	0.0023
Mercury	2206-07-08 15:50 G	2526973.03	2526973.16	2526973.29	0.0089	0.0030
Mercury	2206-10-04 17:16 G	2527061.09	2527061.22	2527061.34	0.0089	0.0037
Mercury	2206-12-31 18:43 G	2527149.16	2527149.28	2527149.40	0.0089	0.0044
Mercury	2207-03-29 20:09 G	2527237.23	2527237.34	2527237.45	0.0089	0.0051
Mercury	2207-06-25 21:35 G	2527325.30	2527325.40	2527325.50	0.0089	0.0058
Venus	2207-09-13 06:00 G	2527404.64	2527404.75	2527404.87	0.0089	0.0076
Mercury	2207-09-21 23:02 G	2527413.37	2527413.46	2527413.55	0.0089	0.0065
Mercury	2207-12-19 00:28 G	2527501.44	2527501.52	2527501.60	0.0089	0.0072
Mercury	2208-03-16 01:55 G	2527589.52	2527589.58	2527589.64	0.0089	0.0079
Venus	2208-04-25 18:57 G	2527630.14	2527630.29	2527630.47	0.0089	0.0060
Mercury	2208-06-12 03:21 G	2527677.60	2527677.64	2527677.67	0.0089	0.0086
Venus	2208-12-07 08:24 G	2527855.67	2527855.85	2527856.06	0.0089	0.0043
Venus	2209-07-20 22:04 G	2528081.21	2528081.42	2528081.63	0.0089	0.0026
Venus	2210-03-03 11:16 G	2528306.76	2528306.97	2528307.20	0.0089	0.0009
Venus	2210-10-15 00:43 G	2528532.31	2528532.53	2528532.75	0.0089	0.0008
Venus	2211-05-28 13:55 G	2528757.87	2528758.08	2528758.30	0.0089	0.0024
Venus	2212-01-09 02:52 G	2528983.45	2528983.62	2528983.84	0.0089	0.0042
Venus	2212-08-21 16:48 G	2529209.04	2529209.20	2529209.37	0.0089	0.0058
Venus	2213-04-04 05:45 G	2529434.64	2529434.74	2529434.88	0.0089	0.0075
Earth	2246-01-27 04:04 G	2541420.56	2541420.67	2541420.79	0.0089	0.0079
Moon	2246-01-27 06:43 G	2541420.70	2541420.78	2541420.91	0.0089	0.0081 *
Moon	2247-01-29 10:19 G	2541787.75	2541787.93	2541788.14	0.0089	0.0056
Earth	2247-01-29 13:55 G	2541787.91	2541788.08	2541788.30	0.0089	0.0057 *
Earth	2248-02-01 00:14 G	2542155.28	2542155.51	2542155.75	0.0089	0.0034
Moon	2248-02-01 03:07 G	2542155.41	2542155.63	2542155.89	0.0089	0.0035 *
Moon	2249-02-02 07:55 G	2542522.59	2542522.83	2542523.08	0.0089	0.0010
Earth	2249-02-02 10:33 G	2542522.69	2542522.94	2542523.19	0.0089	0.0011 *
Earth	2250-02-04 20:38 G	2542890.11	2542890.36	2542890.61	0.0089	0.0012
Moon	2250-02-04 22:19 G	2542890.17	2542890.43	2542890.69	0.0089	0.0010 *

Earth	2251-02-07 06:28 G	2543257.55	2543257.77	2543258.02	0.0089	0.0035
Moon	2251-02-07 06:28 G	2543257.56	2543257.77	2543258.01	0.0089	0.0036 *
Moon	2252-02-09 15:50 G	2543624.97	2543625.16	2543625.38	0.0089	0.0056
Earth	2252-02-09 17:02 G	2543625.02	2543625.21	2543625.40	0.0089	0.0057 *
Earth	2253-02-11 02:38 G	2543992.53	2543992.61	2543992.74	0.0089	0.0080
Moon	2253-02-11 04:33 G	2543992.63	2543992.69	2543992.82	0.0089	0.0082 *
Mars	2271-10-31 16:33 G	2550828.93	2550829.19	2550829.51	0.0088	0.0047
Mars	2273-09-26 22:04 G	2551525.17	2551525.42	2551525.72	0.0088	0.0052
Mercury	2285-08-10 15:07 G	2555861.06	2555861.13	2555861.21	0.0088	0.0079
Mercury	2285-11-06 18:14 G	2555949.16	2555949.26	2555949.37	0.0088	0.0070
Mercury	2286-02-02 21:21 G	2556037.26	2556037.39	2556037.52	0.0088	0.0061
Mercury	2286-05-02 00:28 G	2556125.37	2556125.52	2556125.67	0.0088	0.0052
Mercury	2286-07-29 03:35 G	2556213.49	2556213.65	2556213.81	0.0088	0.0043
Mercury	2286-10-25 06:28 G	2556301.61	2556301.77	2556301.95	0.0088	0.0034
Mercury	2287-01-21 09:35 G	2556389.73	2556389.90	2556390.08	0.0088	0.0025
Mercury	2287-04-19 12:43 G	2556477.85	2556478.03	2556478.22	0.0088	0.0016
Mercury	2287-07-16 15:50 G	2556565.98	2556566.16	2556566.35	0.0088	0.0007
Mercury	2287-10-12 19:11 G	2556654.11	2556654.30	2556654.48	0.0088	0.0003
Mercury	2288-01-08 22:04 G	2556742.24	2556742.42	2556742.61	0.0088	0.0012
Mercury	2288-04-06 01:11 G	2556830.38	2556830.55	2556830.74	0.0088	0.0021
Mercury	2288-07-03 04:33 G	2556918.52	2556918.69	2556918.87	0.0088	0.0030
Mercury	2288-09-29 07:26 G	2557006.66	2557006.81	2557006.99	0.0088	0.0040
Mercury	2288-12-26 10:48 G	2557094.80	2557094.95	2557095.11	0.0088	0.0049
Mercury	2289-03-24 13:55 G	2557182.95	2557183.08	2557183.23	0.0088	0.0058
Mercury	2289-06-20 17:02 G	2557271.11	2557271.21	2557271.35	0.0088	0.0068
Mercury	2289-09-16 20:24 G	2557359.27	2557359.35	2557359.45	0.0088	0.0077
Venus	2289-10-28 13:40 G	2557400.99	2557401.07	2557401.19	0.0088	0.0077
Mercury	2289-12-13 23:45 G	2557447.47	2557447.49	2557447.53	0.0088	0.0086
Venus	2290-06-11 02:24 G	2557626.46	2557626.60	2557626.77	0.0088	0.0061
Venus	2291-01-22 15:21 G	2557851.96	2557852.14	2557852.33	0.0088	0.0045

Venus	2291-09-05 04:04 G	2558077.47	2558077.67	2558077.88	0.0088	0.0029
Venus	2292-04-17 16:48 G	2558302.98	2558303.20	2558303.42	0.0088	0.0013
Venus	2292-11-29 05:31 G	2558528.51	2558528.73	2558528.95	0.0088	0.0003
Venus	2293-07-12 17:45 G	2558754.04	2558754.24	2558754.47	0.0088	0.0019
Venus	2294-02-23 06:28 G	2558979.58	2558979.77	2558979.99	0.0088	0.0035
Venus	2294-10-06 19:26 G	2559205.13	2559205.31	2559205.49	0.0088	0.0050
Venus	2295-05-20 07:55 G	2559430.69	2559430.83	2559430.98	0.0088	0.0066
Venus	2295-12-31 20:24 G	2559656.29	2559656.35	2559656.44	0.0088	0.0082
Earth	2329-07-31 18:00 G	2571921.13	2571921.25	2571921.41	0.0088	0.0075
Moon	2329-07-31 20:52 G	2571921.27	2571921.37	2571921.53	0.0088	0.0078 *
Moon	2330-08-03 05:16 G	2572288.52	2572288.72	2572288.94	0.0089	0.0049
Earth	2330-08-03 07:26 G	2572288.62	2572288.81	2572289.04	0.0089	0.0052 *
Earth	2331-08-05 20:38 G	2572656.13	2572656.36	2572656.63	0.0089	0.0029
Moon	2331-08-05 21:35 G	2572656.16	2572656.40	2572656.67	0.0089	0.0032 *
Earth	2332-08-07 10:04 G	2573023.66	2573023.92	2573024.19	0.0089	0.0005
Moon	2332-08-07 10:19 G	2573023.67	2573023.93	2573024.18	0.0089	0.0003 *
Moon	2333-08-09 21:50 G	2573391.16	2573391.41	2573391.69	0.0089	0.0016
Earth	2333-08-09 23:02 G	2573391.22	2573391.46	2573391.73	0.0089	0.0019 *
Earth	2334-08-12 12:00 G	2573758.79	2573759.00	2573759.25	0.0089	0.0042
Moon	2334-08-12 14:38 G	2573758.91	2573759.11	2573759.35	0.0089	0.0045 *
Moon	2335-08-14 21:50 G	2574126.25	2574126.41	2574126.63	0.0089	0.0063
Earth	2335-08-15 01:11 G	2574126.39	2574126.55	2574126.74	0.0089	0.0065 *
Earth	2336-08-16 14:09 G	2574494.08	2574494.09	2574494.14	0.0089	0.0088
Jupiter	2354-10-05 23:45 G	2581118.21	2581118.49	2581118.88	0.0089	0.0069
Mars	2355-07-01 03:07 G	2581386.35	2581386.63	2581386.92	0.0089	0.0007
Mars	2357-05-24 19:26 G	2582080.18	2582080.31	2582080.45	0.0089	0.0079
Mercury	2367-05-27 14:38 G	2585735.07	2585735.11	2585735.14	0.0089	0.0086
Mercury	2367-08-23 15:50 G	2585823.11	2585823.16	2585823.24	0.0089	0.0079
Mercury	2367-11-19 17:31 G	2585911.16	2585911.23	2585911.32	0.0089	0.0071
Mercury	2368-02-15 19:11 G	2585999.21	2585999.30	2585999.40	0.0089	0.0064

Mercury	2368-05-13 20:38 G	2586087.26	2586087.36	2586087.47	0.0089	0.0057
Mercury	2368-08-09 22:04 G	2586175.32	2586175.42	2586175.55	0.0089	0.0050
Mercury	2368-11-05 23:31 G	2586263.37	2586263.48	2586263.62	0.0089	0.0043
Mercury	2369-02-02 01:11 G	2586351.43	2586351.55	2586351.68	0.0089	0.0035
Mercury	2369-05-01 02:52 G	2586439.49	2586439.62	2586439.75	0.0089	0.0027
Mercury	2369-07-28 04:19 G	2586527.55	2586527.68	2586527.82	0.0089	0.0020
Mercury	2369-10-24 05:45 G	2586615.61	2586615.74	2586615.88	0.0089	0.0013
Mercury	2370-01-20 07:26 G	2586703.67	2586703.81	2586703.95	0.0089	0.0006
Mercury	2370-04-18 08:52 G	2586791.73	2586791.87	2586792.01	0.0089	0.0002
Mercury	2370-07-15 10:19 G	2586879.80	2586879.93	2586880.07	0.0089	0.0009
Mercury	2370-10-11 11:45 G	2586967.86	2586967.99	2586968.13	0.0089	0.0016
Mercury	2371-01-07 13:11 G	2587055.92	2587056.05	2587056.19	0.0089	0.0023
Mercury	2371-04-05 14:38 G	2587143.99	2587144.11	2587144.24	0.0089	0.0030
Mercury	2371-07-02 16:04 G	2587232.05	2587232.17	2587232.30	0.0089	0.0038
Mercury	2371-09-28 17:31 G	2587320.12	2587320.23	2587320.36	0.0089	0.0045
Venus	2371-12-16 13:26 G	2587399.01	2587399.06	2587399.14	0.0089	0.0086
Mercury	2371-12-25 18:57 G	2587408.19	2587408.29	2587408.41	0.0089	0.0052
Mercury	2372-03-22 20:24 G	2587496.26	2587496.35	2587496.46	0.0089	0.0059
Mercury	2372-06-18 21:50 G	2587584.33	2587584.41	2587584.51	0.0089	0.0066
Venus	2372-07-29 02:52 G	2587624.50	2587624.62	2587624.77	0.0089	0.0069
Mercury	2372-09-14 23:16 G	2587672.40	2587672.47	2587672.56	0.0089	0.0073
Mercury	2372-12-12 00:43 G	2587760.48	2587760.53	2587760.60	0.0089	0.0080
Mercury	2373-03-10 02:09 G	2587848.57	2587848.59	2587848.63	0.0089	0.0087
Venus	2373-03-11 16:33 G	2587850.01	2587850.19	2587850.37	0.0089	0.0052
Venus	2373-10-23 05:31 G	2588075.54	2588075.73	2588075.95	0.0089	0.0036
Venus	2374-06-05 18:57 G	2588301.08	2588301.29	2588301.51	0.0089	0.0019
Venus	2375-01-17 08:24 G	2588526.63	2588526.85	2588527.07	0.0089	0.0002
Venus	2375-08-30 21:50 G	2588752.20	2588752.41	2588752.63	0.0089	0.0015
Venus	2376-04-12 10:48 G	2588977.76	2588977.95	2588978.17	0.0089	0.0033
Venus	2376-11-24 00:14 G	2589203.34	2589203.51	2589203.71	0.0089	0.0049

Venus	2377-07-07 13:26 G	2589428.93	2589429.06	2589429.22	0.0089	0.0066
Venus	2378-02-18 02:38 G	2589654.55	2589654.61	2589654.72	0.0089	0.0083
Earth	2411-01-29 21:07 G	2601688.25	2601688.38	2601688.56	0.0089	0.0070
Moon	2411-01-30 00:28 G	2601688.36	2601688.52	2601688.72	0.0089	0.0065 *
Moon	2412-02-01 05:31 G	2602055.55	2602055.73	2602055.95	0.0089	0.0052
Earth	2412-02-01 07:40 G	2602055.61	2602055.82	2602056.04	0.0089	0.0047 *
Earth	2413-02-02 17:45 G	2602423.00	2602423.24	2602423.49	0.0089	0.0025
Moon	2413-02-02 18:43 G	2602423.03	2602423.28	2602423.55	0.0089	0.0021 *
Earth	2414-02-05 03:50 G	2602790.41	2602790.66	2602790.92	0.0089	0.0003
Moon	2414-02-05 03:50 G	2602790.42	2602790.66	2602790.91	0.0089	0.0007 *
Moon	2415-02-07 11:45 G	2603157.76	2603157.99	2603158.26	0.0089	0.0026
Earth	2415-02-07 13:55 G	2603157.84	2603158.08	2603158.33	0.0089	0.0021 *
Earth	2416-02-09 23:45 G	2603525.28	2603525.49	2603525.73	0.0089	0.0044
Moon	2416-02-10 02:38 G	2603525.39	2603525.61	2603525.83	0.0089	0.0039 *
Moon	2417-02-11 06:28 G	2603892.64	2603892.77	2603892.95	0.0089	0.0071
Earth	2417-02-11 09:50 G	2603892.76	2603892.91	2603893.10	0.0089	0.0066 *
Earth	2418-02-13 19:55 G	2604260.33	2604260.33	2604260.38	0.0089	0.0088
Moon	2418-02-13 23:31 G	2604260.42	2604260.48	2604260.59	0.0089	0.0084
Mars	2437-05-11 03:35 G	2611286.31	2611286.65	2611287.00	0.0088	0.0003
Mercury	2450-02-09 09:50 G	2615943.89	2615943.91	2615943.93	0.0088	0.0087
Mercury	2450-05-08 12:14 G	2616031.96	2616032.01	2616032.12	0.0088	0.0079
Mercury	2450-08-04 15:21 G	2616120.05	2616120.14	2616120.27	0.0088	0.0070
Mercury	2450-10-31 18:28 G	2616208.16	2616208.27	2616208.42	0.0088	0.0061
Mercury	2451-01-27 21:35 G	2616296.27	2616296.40	2616296.56	0.0088	0.0052
Mercury	2451-04-26 00:43 G	2616384.38	2616384.53	2616384.70	0.0088	0.0043
Mercury	2451-07-23 03:50 G	2616472.50	2616472.66	2616472.84	0.0088	0.0034
Mercury	2451-10-19 06:57 G	2616560.62	2616560.79	2616560.98	0.0088	0.0025
Mercury	2452-01-15 10:04 G	2616648.75	2616648.92	2616649.11	0.0088	0.0016
Mercury	2452-04-12 13:26 G	2616736.87	2616737.06	2616737.24	0.0088	0.0006
Mercury	2452-07-09 16:33 G	2616825.00	2616825.19	2616825.37	0.0088	0.0003

Mercury	2452-10-05 19:40 G	2616913.14	2616913.32	2616913.50	0.0088	0.0012
Mercury	2453-01-01 22:33 G	2617001.27	2617001.44	2617001.63	0.0088	0.0022
Mercury	2453-03-31 01:40 G	2617089.41	2617089.57	2617089.76	0.0088	0.0031
Mercury	2453-06-27 05:02 G	2617177.55	2617177.71	2617177.88	0.0088	0.0040
Mercury	2453-09-23 08:09 G	2617265.69	2617265.84	2617266.00	0.0088	0.0049
Mercury	2453-12-20 11:02 G	2617353.84	2617353.96	2617354.12	0.0088	0.0059
Venus	2454-01-30 22:04 G	2617395.40	2617395.42	2617395.49	0.0088	0.0086
Mercury	2454-03-18 14:24 G	2617442.00	2617442.10	2617442.23	0.0088	0.0068
Mercury	2454-06-14 18:00 G	2617530.16	2617530.25	2617530.34	0.0088	0.0077
Mercury	2454-09-10 20:38 G	2617618.36	2617618.36	2617618.41	0.0088	0.0087
Venus	2454-09-13 10:48 G	2617620.84	2617620.95	2617621.10	0.0088	0.0070
Venus	2455-04-26 23:31 G	2617846.32	2617846.48	2617846.67	0.0088	0.0054
Venus	2455-12-08 12:14 G	2618071.82	2618072.01	2618072.22	0.0088	0.0038
Venus	2456-07-21 01:11 G	2618297.33	2618297.55	2618297.76	0.0088	0.0022
Venus	2457-03-03 13:55 G	2618522.86	2618523.08	2618523.30	0.0088	0.0006
Venus	2457-10-15 02:38 G	2618748.39	2618748.61	2618748.83	0.0088	0.0010
Venus	2458-05-28 15:07 G	2618973.92	2618974.13	2618974.35	0.0088	0.0026
Venus	2459-01-09 03:35 G	2619199.47	2619199.65	2619199.86	0.0088	0.0042
Venus	2459-08-22 16:04 G	2619425.02	2619425.17	2619425.36	0.0088	0.0058
Venus	2460-04-04 04:48 G	2619650.60	2619650.70	2619650.84	0.0088	0.0074
Moon	2493-07-30 18:57 G	2631821.27	2631821.29	2631821.38	0.0088	0.0087
Earth	2493-07-30 20:24 G	2631821.35	2631821.35	2631821.39	0.0088	0.0088 *
Earth	2494-08-02 09:35 G	2632188.75	2632188.90	2632189.10	0.0088	0.0066
Moon	2494-08-02 10:19 G	2632188.77	2632188.93	2632189.12	0.0088	0.0068 *
Earth	2495-08-04 22:48 G	2632556.24	2632556.45	2632556.70	0.0089	0.0043
Moon	2495-08-05 00:14 G	2632556.30	2632556.51	2632556.75	0.0089	0.0040 *
Moon	2496-08-06 10:04 G	2632923.67	2632923.92	2632924.20	0.0089	0.0022
Earth	2496-08-06 12:28 G	2632923.77	2632924.02	2632924.29	0.0089	0.0019 *
Earth	2497-08-09 01:55 G	2633291.32	2633291.58	2633291.84	0.0089	0.0004
Moon	2497-08-09 04:33 G	2633291.44	2633291.69	2633291.95	0.0089	0.0008 *



Moon	2498-08-11 11:31 G	2633658.73	2633658.98	2633659.24	0.0089	0.0024
Earth	2498-08-11 14:52 G	2633658.89	2633659.12	2633659.39	0.0089	0.0028 *
Earth	2499-08-14 04:19 G	2634026.47	2634026.68	2634026.90	0.0089	0.0050
Moon	2499-08-14 07:26 G	2634026.62	2634026.81	2634027.04	0.0089	0.0054 *
Moon	2500-08-16 13:11 G	2634393.92	2634394.05	2634394.24	0.0089	0.0070
Earth	2500-08-16 17:31 G	2634394.08	2634394.23	2634394.38	0.0089	0.0073 *
Mars	2519-02-14 05:45 G	2641149.53	2641149.74	2641150.00	0.0089	0.0052
Mars	2521-01-07 23:02 G	2641843.19	2641843.46	2641843.73	0.0089	0.0034
Mercury	2532-02-22 13:26 G	2645906.02	2645906.06	2645906.09	0.0089	0.0086
Mercury	2532-05-20 14:38 G	2645994.06	2645994.11	2645994.19	0.0089	0.0079
Mercury	2532-08-16 16:19 G	2646082.11	2646082.18	2646082.27	0.0089	0.0071
Mercury	2532-11-12 18:00 G	2646170.16	2646170.25	2646170.35	0.0089	0.0064
Mercury	2533-02-08 19:26 G	2646258.21	2646258.31	2646258.42	0.0089	0.0057
Mercury	2533-05-07 20:52 G	2646346.27	2646346.37	2646346.50	0.0089	0.0050
Mercury	2533-08-03 22:48 G	2646434.32	2646434.45	2646434.57	0.0089	0.0042
Mercury	2533-10-31 00:14 G	2646522.38	2646522.51	2646522.64	0.0089	0.0034
Mercury	2534-01-27 01:40 G	2646610.44	2646610.57	2646610.70	0.0089	0.0027
Mercury	2534-04-25 03:07 G	2646698.50	2646698.63	2646698.77	0.0089	0.0020
Mercury	2534-07-22 04:48 G	2646786.56	2646786.70	2646786.84	0.0089	0.0013
Mercury	2534-10-18 06:14 G	2646874.62	2646874.76	2646874.90	0.0089	0.0006
Mercury	2535-01-14 07:40 G	2646962.69	2646962.82	2646962.96	0.0089	0.0003
Mercury	2535-04-12 09:07 G	2647050.75	2647050.88	2647051.02	0.0089	0.0010
Mercury	2535-07-09 10:48 G	2647138.81	2647138.95	2647139.08	0.0089	0.0016
Mercury	2535-10-05 12:14 G	2647226.88	2647227.01	2647227.14	0.0089	0.0023
Mercury	2536-01-01 13:40 G	2647314.94	2647315.07	2647315.20	0.0089	0.0030
Mercury	2536-03-29 15:07 G	2647403.01	2647403.13	2647403.26	0.0089	0.0038
Mercury	2536-06-25 16:33 G	2647491.08	2647491.19	2647491.31	0.0089	0.0045
Mercury	2536-09-21 18:00 G	2647579.14	2647579.25	2647579.36	0.0089	0.0052
Venus	2536-10-31 10:19 G	2647618.84	2647618.93	2647619.05	0.0089	0.0079
Mercury	2536-12-18 19:26 G	2647667.21	2647667.31	2647667.42	0.0089	0.0059

Mercury	2537-03-16 20:52 G	2647755.29	2647755.37	2647755.47	0.0089	0.0066
Mercury	2537-06-12 22:19 G	2647843.36	2647843.43	2647843.51	0.0089	0.0073
Venus	2537-06-13 23:45 G	2647844.34	2647844.49	2647844.66	0.0089	0.0062
Mercury	2537-09-08 23:45 G	2647931.44	2647931.49	2647931.55	0.0089	0.0080
Mercury	2537-12-06 01:11 G	2648019.53	2648019.55	2648019.59	0.0089	0.0087
Venus	2538-01-25 13:26 G	2648069.87	2648070.06	2648070.25	0.0089	0.0045
Venus	2538-09-08 02:24 G	2648295.41	2648295.60	2648295.83	0.0089	0.0029
Venus	2539-04-21 16:04 G	2648520.95	2648521.17	2648521.39	0.0089	0.0011
Venus	2539-12-03 05:31 G	2648746.51	2648746.73	2648746.95	0.0089	0.0006
Venus	2540-07-15 18:28 G	2648972.07	2648972.27	2648972.49	0.0089	0.0023
Venus	2541-02-26 07:40 G	2649197.64	2649197.82	2649198.03	0.0089	0.0040
Venus	2541-10-09 20:52 G	2649423.22	2649423.37	2649423.56	0.0089	0.0057
Venus	2542-05-23 10:04 G	2649648.82	2649648.92	2649649.07	0.0089	0.0074
Moon	2575-01-30 03:07 G	2661588.54	2661588.63	2661588.72	0.0089	0.0082
Earth	2575-01-30 04:33 G	2661588.62	2661588.69	2661588.81	0.0089	0.0082 *
Earth	2576-02-01 14:38 G	2661955.95	2661956.11	2661956.32	0.0089	0.0060
Moon	2576-02-01 15:07 G	2661955.96	2661956.13	2661956.34	0.0089	0.0060 *
Earth	2577-02-03 00:43 G	2662323.32	2662323.53	2662323.78	0.0089	0.0038
Moon	2577-02-03 01:55 G	2662323.37	2662323.58	2662323.82	0.0089	0.0037 *
Moon	2578-02-05 09:21 G	2662690.64	2662690.89	2662691.15	0.0089	0.0015
Earth	2578-02-05 11:16 G	2662690.72	2662690.97	2662691.22	0.0089	0.0015 *
Earth	2579-02-07 21:07 G	2663058.13	2663058.38	2663058.64	0.0089	0.0008
Moon	2579-02-08 00:14 G	2663058.27	2663058.51	2663058.76	0.0089	0.0008 *
Moon	2580-02-10 03:50 G	2663425.42	2663425.66	2663425.91	0.0089	0.0029
Earth	2580-02-10 07:11 G	2663425.57	2663425.80	2663426.05	0.0089	0.0030 *
Earth	2581-02-11 17:02 G	2663793.02	2663793.21	2663793.43	0.0089	0.0052
Moon	2581-02-11 20:52 G	2663793.17	2663793.37	2663793.58	0.0089	0.0051 *
Moon	2582-02-14 00:00 G	2664160.38	2664160.50	2664160.65	0.0089	0.0074
Earth	2582-02-14 03:21 G	2664160.51	2664160.64	2664160.78	0.0089	0.0074 *
Mars	2600-12-24 07:11 G	2671047.53	2671047.80	2671048.11	0.0088	0.0048

Mars	2602-11-20 13:26 G	2671743.80	2671744.06	2671744.36	0.0088	0.0051
Mercury	2614-11-08 06:57 G	2676114.78	2676114.79	2676114.84	0.0088	0.0087
Mercury	2615-02-04 10:04 G	2676202.85	2676202.92	2676203.02	0.0088	0.0078
Mercury	2615-05-03 12:57 G	2676290.95	2676291.04	2676291.17	0.0088	0.0069
Mercury	2615-07-30 16:04 G	2676379.05	2676379.17	2676379.32	0.0088	0.0060
Mercury	2615-10-26 19:11 G	2676467.17	2676467.30	2676467.46	0.0088	0.0051
Mercury	2616-01-22 22:19 G	2676555.28	2676555.43	2676555.60	0.0088	0.0042
Mercury	2616-04-20 01:26 G	2676643.40	2676643.56	2676643.74	0.0088	0.0033
Mercury	2616-07-17 04:33 G	2676731.52	2676731.69	2676731.87	0.0088	0.0024
Mercury	2616-10-13 07:40 G	2676819.64	2676819.82	2676820.01	0.0088	0.0015
Mercury	2617-01-09 10:48 G	2676907.77	2676907.95	2676908.14	0.0088	0.0006
Mercury	2617-04-07 13:55 G	2676995.90	2676996.08	2676996.27	0.0088	0.0004
Mercury	2617-07-04 17:02 G	2677084.03	2677084.21	2677084.40	0.0088	0.0013
Mercury	2617-09-30 20:09 G	2677172.16	2677172.34	2677172.52	0.0088	0.0022
Mercury	2617-12-27 23:16 G	2677260.30	2677260.47	2677260.65	0.0088	0.0031
Mercury	2618-03-26 02:09 G	2677348.44	2677348.59	2677348.77	0.0088	0.0041
Mercury	2618-06-22 05:16 G	2677436.58	2677436.72	2677436.89	0.0088	0.0050
Mercury	2618-09-18 08:38 G	2677524.73	2677524.86	2677525.01	0.0088	0.0059
Mercury	2618-12-15 12:00 G	2677612.89	2677613.00	2677613.12	0.0088	0.0068
Venus	2618-12-17 19:26 G	2677615.22	2677615.31	2677615.41	0.0088	0.0079
Mercury	2619-03-13 14:52 G	2677701.05	2677701.12	2677701.22	0.0088	0.0078
Mercury	2619-06-09 18:14 G	2677789.25	2677789.26	2677789.29	0.0088	0.0087
Venus	2619-07-31 08:09 G	2677840.69	2677840.84	2677840.99	0.0088	0.0063
Venus	2620-03-12 20:52 G	2678066.19	2678066.37	2678066.56	0.0088	0.0047
Venus	2620-10-24 09:07 G	2678291.69	2678291.88	2678292.10	0.0088	0.0032
Venus	2621-06-06 21:50 G	2678517.20	2678517.41	2678517.64	0.0088	0.0016
Venus	2622-01-18 10:33 G	2678742.73	2678742.94	2678743.17	0.0088	0.0002
Venus	2622-08-31 23:16 G	2678968.26	2678968.47	2678968.69	0.0088	0.0017
Venus	2623-04-14 11:45 G	2679193.80	2679193.99	2679194.21	0.0088	0.0033
Venus	2623-11-26 00:28 G	2679419.35	2679419.52	2679419.71	0.0088	0.0049

Venus	2624-07-08 12:57 G	2679644.91	2679645.04	2679645.20	0.0088	0.0065
Venus	2625-02-19 01:40 G	2679870.51	2679870.57	2679870.67	0.0088	0.0081
Earth	2658-08-03 11:45 G	2692088.88	2692088.99	2692089.11	0.0088	0.0079
Moon	2658-08-03 13:11 G	2692088.98	2692089.05	2692089.15	0.0088	0.0083 *
Moon	2659-08-05 22:04 G	2692456.21	2692456.42	2692456.64	0.0088	0.0052
Earth	2659-08-06 00:28 G	2692456.35	2692456.52	2692456.75	0.0088	0.0057 *
Earth	2660-08-07 13:55 G	2692823.85	2692824.08	2692824.34	0.0089	0.0034
Moon	2660-08-07 17:16 G	2692824.00	2692824.22	2692824.47	0.0089	0.0038 *
Moon	2661-08-10 00:00 G	2693191.24	2693191.50	2693191.77	0.0089	0.0007
Earth	2661-08-10 03:35 G	2693191.39	2693191.65	2693191.91	0.0089	0.0011 *
Earth	2662-08-12 16:48 G	2693558.95	2693559.20	2693559.46	0.0089	0.0012
Moon	2662-08-12 20:38 G	2693559.10	2693559.36	2693559.62	0.0089	0.0009 *
Moon	2663-08-15 02:52 G	2693926.42	2693926.62	2693926.87	0.0089	0.0040
Earth	2663-08-15 05:45 G	2693926.51	2693926.74	2693926.99	0.0089	0.0036 *
Earth	2664-08-16 19:11 G	2694294.11	2694294.30	2694294.50	0.0089	0.0058
Moon	2664-08-16 21:35 G	2694294.19	2694294.40	2694294.61	0.0089	0.0055 *
Moon	2665-08-19 06:57 G	2694661.74	2694661.79	2694661.89	0.0089	0.0085
Earth	2665-08-19 08:09 G	2694661.75	2694661.84	2694661.96	0.0089	0.0081 *
Mars	2684-08-24 02:52 G	2701606.34	2701606.62	2701606.92	0.0089	0.0012
Mars	2686-07-18 19:11 G	2702300.16	2702300.30	2702300.47	0.0089	0.0075
Mercury	2696-11-19 11:45 G	2706076.97	2706076.99	2706077.04	0.0089	0.0087
Mercury	2697-02-15 13:40 G	2706165.00	2706165.07	2706165.13	0.0089	0.0079
Mercury	2697-05-14 14:52 G	2706253.05	2706253.12	2706253.21	0.0089	0.0072
Mercury	2697-08-10 16:33 G	2706341.10	2706341.19	2706341.29	0.0089	0.0064
Mercury	2697-11-06 18:14 G	2706429.16	2706429.26	2706429.37	0.0089	0.0057
Mercury	2698-02-02 19:40 G	2706517.21	2706517.32	2706517.44	0.0089	0.0050
Mercury	2698-05-01 21:07 G	2706605.27	2706605.38	2706605.51	0.0089	0.0043
Mercury	2698-07-28 22:33 G	2706693.33	2706693.44	2706693.58	0.0089	0.0036
Mercury	2698-10-25 00:28 G	2706781.39	2706781.52	2706781.65	0.0089	0.0028
Mercury	2699-01-21 01:55 G	2706869.45	2706869.58	2706869.72	0.0089	0.0020

Mercury	2699-04-19 03:21 G	2706957.51	2706957.64	2706957.78	0.0089	0.0013
Mercury	2699-07-16 05:02 G	2707045.57	2707045.71	2707045.84	0.0089	0.0006
Mercury	2699-10-12 06:28 G	2707133.63	2707133.77	2707133.91	0.0089	0.0002
Mercury	2700-01-08 07:55 G	2707221.69	2707221.83	2707221.97	0.0089	0.0009
Mercury	2700-04-06 09:21 G	2707309.76	2707309.89	2707310.03	0.0089	0.0016
Mercury	2700-07-03 10:48 G	2707397.82	2707397.95	2707398.09	0.0089	0.0023
Mercury	2700-09-29 12:14 G	2707485.89	2707486.01	2707486.15	0.0089	0.0030
Mercury	2700-12-26 13:40 G	2707573.96	2707574.07	2707574.20	0.0089	0.0038
Venus	2701-02-03 17:02 G	2707613.21	2707613.21	2707613.24	0.0089	0.0089
Mercury	2701-03-24 15:07 G	2707662.02	2707662.13	2707662.26	0.0089	0.0045
Mercury	2701-06-20 16:48 G	2707750.09	2707750.20	2707750.31	0.0089	0.0051
Mercury	2701-09-16 18:14 G	2707838.16	2707838.26	2707838.37	0.0089	0.0059
Venus	2701-09-17 06:28 G	2707838.66	2707838.77	2707838.92	0.0089	0.0073
Mercury	2701-12-13 19:40 G	2707926.23	2707926.32	2707926.42	0.0089	0.0066
Mercury	2702-03-11 21:07 G	2708014.31	2708014.38	2708014.46	0.0089	0.0073
Venus	2702-04-30 19:55 G	2708064.17	2708064.33	2708064.52	0.0089	0.0056
Mercury	2702-06-07 22:33 G	2708102.39	2708102.44	2708102.51	0.0089	0.0080
Mercury	2702-09-04 00:00 G	2708190.48	2708190.50	2708190.54	0.0089	0.0087
Venus	2702-12-12 09:21 G	2708289.70	2708289.89	2708290.10	0.0089	0.0039
Venus	2703-07-25 22:48 G	2708515.25	2708515.45	2708515.67	0.0089	0.0022
Venus	2704-03-07 12:28 G	2708740.80	2708741.02	2708741.24	0.0089	0.0004
Venus	2704-10-19 01:40 G	2708966.36	2708966.57	2708966.79	0.0089	0.0013
Venus	2705-06-01 14:52 G	2709191.92	2709192.12	2709192.34	0.0089	0.0030
Venus	2706-01-13 04:04 G	2709417.50	2709417.67	2709417.87	0.0089	0.0047
Venus	2706-08-26 17:31 G	2709643.09	2709643.23	2709643.40	0.0089	0.0064
Venus	2707-04-09 06:43 G	2709868.70	2709868.78	2709868.89	0.0089	0.0081
Earth	2740-02-02 20:52 G	2721856.25	2721856.37	2721856.54	0.0089	0.0073
Moon	2740-02-02 22:48 G	2721856.30	2721856.45	2721856.61	0.0089	0.0068 *
Moon	2741-02-04 04:33 G	2722223.50	2722223.69	2722223.91	0.0089	0.0055
Earth	2741-02-04 07:11 G	2722223.62	2722223.80	2722224.03	0.0089	0.0051 *

Earth	2742-02-06 17:31 G	2722591.00	2722591.23	2722591.49	0.0089	0.0029
Moon	2742-02-06 20:38 G	2722591.13	2722591.36	2722591.61	0.0089	0.0024 *
Moon	2743-02-09 00:28 G	2722958.27	2722958.52	2722958.77	0.0089	0.0011
Earth	2743-02-09 04:04 G	2722958.42	2722958.67	2722958.93	0.0089	0.0006 *
Earth	2744-02-11 14:09 G	2723325.84	2723326.09	2723326.34	0.0089	0.0016
Moon	2744-02-11 17:16 G	2723325.98	2723326.22	2723326.48	0.0089	0.0021 *
Moon	2745-02-12 21:21 G	2723693.17	2723693.39	2723693.63	0.0089	0.0034
Earth	2745-02-13 00:14 G	2723693.28	2723693.51	2723693.74	0.0089	0.0038 *
Earth	2746-02-15 10:04 G	2724060.74	2724060.92	2724061.12	0.0089	0.0060
Moon	2746-02-15 11:45 G	2724060.84	2724060.99	2724061.19	0.0089	0.0065 *
Moon	2747-02-17 20:09 G	2724428.23	2724428.34	2724428.46	0.0089	0.0078
Earth	2747-02-17 19:40 G	2724428.26	2724428.32	2724428.44	0.0089	0.0083 *
Mars	2766-07-04 16:48 G	2731504.86	2731505.20	2731505.55	0.0088	0.0001
Mercury	2779-08-06 04:33 G	2736285.67	2736285.69	2736285.74	0.0088	0.0086
Mercury	2779-11-02 07:40 G	2736373.75	2736373.82	2736373.92	0.0088	0.0077
Mercury	2780-01-29 10:48 G	2736461.84	2736461.95	2736462.07	0.0088	0.0068
Mercury	2780-04-26 13:40 G	2736549.95	2736550.07	2736550.22	0.0088	0.0059
Mercury	2780-07-23 16:48 G	2736638.06	2736638.20	2736638.36	0.0088	0.0050
Mercury	2780-10-19 19:55 G	2736726.17	2736726.33	2736726.50	0.0088	0.0041
Mercury	2781-01-15 23:02 G	2736814.29	2736814.46	2736814.63	0.0088	0.0032
Mercury	2781-04-14 02:09 G	2736902.41	2736902.59	2736902.77	0.0088	0.0023
Mercury	2781-07-11 05:16 G	2736990.54	2736990.72	2736990.90	0.0088	0.0014
Mercury	2781-10-07 08:24 G	2737078.66	2737078.85	2737079.03	0.0088	0.0005
Mercury	2782-01-03 11:31 G	2737166.79	2737166.98	2737167.16	0.0088	0.0004
Mercury	2782-04-01 14:24 G	2737254.92	2737255.10	2737255.29	0.0088	0.0014
Mercury	2782-06-28 17:31 G	2737343.06	2737343.23	2737343.42	0.0088	0.0023
Mercury	2782-09-24 20:38 G	2737431.19	2737431.36	2737431.54	0.0088	0.0032
Mercury	2782-12-21 23:45 G	2737519.33	2737519.49	2737519.66	0.0088	0.0041
Mercury	2783-03-20 03:07 G	2737607.48	2737607.63	2737607.78	0.0088	0.0050
Mercury	2783-06-16 05:45 G	2737695.63	2737695.74	2737695.90	0.0088	0.0060

Mercury	2783-09-12 09:07 G	2737783.78	2737783.88	2737784.01	0.0088	0.0069
Venus	2783-11-02 16:48 G	2737835.08	2737835.20	2737835.32	0.0088	0.0072
Mercury	2783-12-09 12:28 G	2737871.94	2737872.02	2737872.11	0.0088	0.0078
Mercury	2784-03-06 15:35 G	2737960.15	2737960.15	2737960.17	0.0088	0.0087
Venus	2784-06-15 04:48 G	2738060.55	2738060.70	2738060.89	0.0088	0.0057
Venus	2785-01-26 17:31 G	2738286.05	2738286.23	2738286.44	0.0088	0.0041
Venus	2785-09-09 06:14 G	2738511.56	2738511.76	2738511.98	0.0088	0.0025
Venus	2786-04-22 19:11 G	2738737.08	2738737.30	2738737.52	0.0088	0.0008
Venus	2786-12-04 07:40 G	2738962.60	2738962.82	2738963.04	0.0088	0.0008
Venus	2787-07-17 20:09 G	2739188.14	2739188.34	2739188.56	0.0088	0.0024
Venus	2788-02-28 08:52 G	2739413.68	2739413.87	2739414.08	0.0088	0.0040
Venus	2788-10-10 21:35 G	2739639.24	2739639.40	2739639.58	0.0088	0.0056
Venus	2789-05-24 10:04 G	2739864.81	2739864.92	2739865.06	0.0088	0.0072
Earth	2823-08-06 02:52 G	2752356.48	2752356.62	2752356.80	0.0088	0.0070
Moon	2823-08-06 06:28 G	2752356.64	2752356.77	2752356.94	0.0088	0.0072 *
Moon	2824-08-07 12:28 G	2752723.82	2752724.02	2752724.26	0.0088	0.0047
Earth	2824-08-07 15:50 G	2752723.97	2752724.16	2752724.41	0.0088	0.0048 *
Earth	2825-08-10 05:16 G	2753091.48	2753091.72	2753091.99	0.0089	0.0025
Moon	2825-08-10 08:24 G	2753091.61	2753091.85	2753092.12	0.0089	0.0027 *
Moon	2826-08-12 16:04 G	2753458.92	2753459.17	2753459.43	0.0089	0.0002
Earth	2826-08-12 18:43 G	2753459.02	2753459.28	2753459.54	0.0089	0.0002 *
Earth	2827-08-15 07:55 G	2753826.58	2753826.83	2753827.09	0.0089	0.0021
Moon	2827-08-15 08:38 G	2753826.61	2753826.86	2753827.14	0.0089	0.0020 *
Earth	2828-08-16 20:52 G	2754194.16	2754194.37	2754194.62	0.0089	0.0044
Moon	2828-08-16 20:52 G	2754194.17	2754194.37	2754194.60	0.0089	0.0046 *
Moon	2829-08-19 09:07 G	2754561.72	2754561.88	2754562.09	0.0089	0.0064
Earth	2829-08-19 10:33 G	2754561.77	2754561.94	2754562.11	0.0089	0.0066 *
Earth	2830-08-21 23:31 G	2754929.48	2754929.48	2754929.50	0.0089	0.0089
Mars	2848-04-09 06:57 G	2761369.59	2761369.79	2761370.03	0.0089	0.0057
Mars	2850-03-03 22:04 G	2762063.16	2762063.42	2762063.71	0.0089	0.0030

Mercury	2861-08-17 10:33 G	2766247.92	2766247.94	2766247.98	0.0089	0.0087
Mercury	2861-11-13 12:00 G	2766335.95	2766336.00	2766336.08	0.0089	0.0080
Mercury	2862-02-09 13:55 G	2766424.00	2766424.08	2766424.16	0.0089	0.0072
Mercury	2862-05-08 15:21 G	2766512.05	2766512.14	2766512.24	0.0089	0.0065
Mercury	2862-08-04 16:48 G	2766600.10	2766600.20	2766600.31	0.0089	0.0057
Mercury	2862-10-31 18:28 G	2766688.16	2766688.27	2766688.39	0.0089	0.0050
Mercury	2863-01-27 19:55 G	2766776.21	2766776.33	2766776.46	0.0089	0.0043
Mercury	2863-04-25 21:21 G	2766864.27	2766864.39	2766864.53	0.0089	0.0036
Mercury	2863-07-22 23:02 G	2766952.33	2766952.46	2766952.59	0.0089	0.0028
Mercury	2863-10-19 00:43 G	2767040.39	2767040.53	2767040.66	0.0089	0.0021
Mercury	2864-01-15 02:09 G	2767128.45	2767128.59	2767128.73	0.0089	0.0013
Mercury	2864-04-12 03:35 G	2767216.52	2767216.65	2767216.79	0.0089	0.0006
Mercury	2864-07-09 05:16 G	2767304.58	2767304.72	2767304.85	0.0089	0.0003
Mercury	2864-10-05 06:43 G	2767392.64	2767392.78	2767392.91	0.0089	0.0008
Mercury	2865-01-01 08:09 G	2767480.70	2767480.84	2767480.98	0.0089	0.0015
Mercury	2865-03-30 09:35 G	2767568.77	2767568.90	2767569.04	0.0089	0.0023
Mercury	2865-06-26 11:02 G	2767656.84	2767656.96	2767657.09	0.0089	0.0030
Mercury	2865-09-22 12:28 G	2767744.90	2767745.02	2767745.15	0.0089	0.0037
Mercury	2865-12-19 13:55 G	2767832.97	2767833.08	2767833.21	0.0089	0.0044
Venus	2865-12-19 13:26 G	2767832.98	2767833.06	2767833.14	0.0089	0.0083 *
Mercury	2866-03-17 15:21 G	2767921.04	2767921.14	2767921.26	0.0089	0.0052
Mercury	2866-06-13 16:48 G	2768009.11	2768009.20	2768009.31	0.0089	0.0059
Venus	2866-08-02 02:52 G	2768058.48	2768058.62	2768058.78	0.0089	0.0066
Mercury	2866-09-09 18:14 G	2768097.18	2768097.26	2768097.36	0.0089	0.0066
Mercury	2866-12-06 19:40 G	2768185.26	2768185.32	2768185.41	0.0089	0.0073
Mercury	2867-03-04 21:07 G	2768273.33	2768273.38	2768273.45	0.0089	0.0080
Venus	2867-03-15 16:19 G	2768284.00	2768284.18	2768284.37	0.0089	0.0049
Mercury	2867-05-31 22:33 G	2768361.42	2768361.44	2768361.49	0.0089	0.0087
Venus	2867-10-27 05:45 G	2768509.54	2768509.74	2768509.95	0.0089	0.0032
Venus	2868-06-08 19:11 G	2768735.08	2768735.30	2768735.52	0.0089	0.0015



Venus	2869-01-20 08:38 G	2768960.64	2768960.86	2768961.08	0.0089	0.0002
Venus	2869-09-02 21:50 G	2769186.21	2769186.41	2769186.64	0.0089	0.0020
Venus	2870-04-16 11:16 G	2769411.78	2769411.97	2769412.18	0.0090	0.0037
Venus	2870-11-28 00:28 G	2769637.35	2769637.52	2769637.71	0.0090	0.0054
Venus	2871-07-11 13:40 G	2769862.95	2769863.07	2769863.22	0.0090	0.0071
Venus	2872-02-22 02:52 G	2770088.59	2770088.62	2770088.68	0.0090	0.0088
Moon	2904-02-03 00:14 G	2781756.45	2781756.51	2781756.62	0.0089	0.0084
Earth	2904-02-03 03:35 G	2781756.59	2781756.65	2781756.73	0.0089	0.0085 *
Earth	2905-02-04 13:11 G	2782123.90	2782124.05	2782124.26	0.0089	0.0064
Moon	2905-02-04 16:48 G	2782124.06	2782124.20	2782124.40	0.0089	0.0066 *
Moon	2906-02-06 20:38 G	2782491.15	2782491.36	2782491.60	0.0089	0.0040
Earth	2906-02-06 23:45 G	2782491.29	2782491.49	2782491.74	0.0089	0.0042 *
Earth	2907-02-09 10:04 G	2782858.69	2782858.92	2782859.18	0.0089	0.0020
Moon	2907-02-09 13:55 G	2782858.83	2782859.08	2782859.33	0.0089	0.0020 *
Moon	2908-02-11 18:14 G	2783226.02	2783226.26	2783226.51	0.0089	0.0005
Earth	2908-02-11 20:38 G	2783226.10	2783226.36	2783226.61	0.0089	0.0003 *
Earth	2909-02-13 06:14 G	2783593.53	2783593.76	2783594.02	0.0089	0.0025
Moon	2909-02-13 07:26 G	2783593.57	2783593.81	2783594.08	0.0089	0.0024 *
Moon	2910-02-15 16:04 G	2783960.98	2783961.17	2783961.39	0.0089	0.0048
Earth	2910-02-15 16:19 G	2783960.98	2783961.18	2783961.41	0.0089	0.0047 *
Moon	2911-02-18 00:28 G	2784328.38	2784328.52	2784328.72	0.0089	0.0067
Earth	2911-02-18 02:38 G	2784328.46	2784328.61	2784328.78	0.0089	0.0068 *
Jupiter	2929-11-15 17:16 G	2791173.69	2791174.22	2791174.80	0.0088	0.0022
Mars	2930-02-15 18:57 G	2791266.02	2791266.29	2791266.59	0.0088	0.0051
Mars	2932-01-13 02:09 G	2791962.32	2791962.59	2791962.89	0.0088	0.0049
Mercury	2944-05-03 02:09 G	2796456.56	2796456.59	2796456.65	0.0088	0.0085
Mercury	2944-07-30 05:16 G	2796544.64	2796544.72	2796544.82	0.0088	0.0076
Mercury	2944-10-26 08:24 G	2796632.74	2796632.85	2796632.97	0.0088	0.0067
Mercury	2945-01-22 11:02 G	2796720.84	2796720.96	2796721.11	0.0088	0.0059
Mercury	2945-04-20 14:09 G	2796808.95	2796809.09	2796809.26	0.0088	0.0050

Mercury	2945-07-17 17:16 G	2796897.07	2796897.22	2796897.39	0.0088	0.0041
Mercury	2945-10-13 20:24 G	2796985.19	2796985.35	2796985.53	0.0088	0.0032
Mercury	2946-01-09 23:31 G	2797073.31	2797073.48	2797073.66	0.0088	0.0023
Mercury	2946-04-08 02:38 G	2797161.43	2797161.61	2797161.80	0.0088	0.0014
Mercury	2946-07-05 05:45 G	2797249.56	2797249.74	2797249.93	0.0088	0.0004
Mercury	2946-10-01 08:52 G	2797337.69	2797337.87	2797338.06	0.0088	0.0005
Mercury	2946-12-28 12:00 G	2797425.82	2797426.00	2797426.18	0.0088	0.0014
Mercury	2947-03-26 15:07 G	2797513.95	2797514.13	2797514.31	0.0088	0.0023
Mercury	2947-06-22 18:14 G	2797602.09	2797602.26	2797602.43	0.0088	0.0032
Mercury	2947-09-18 21:07 G	2797690.23	2797690.38	2797690.55	0.0088	0.0042
Mercury	2947-12-16 00:14 G	2797778.37	2797778.51	2797778.67	0.0088	0.0051
Venus	2948-02-05 00:43 G	2797829.48	2797829.53	2797829.64	0.0088	0.0082
Mercury	2948-03-13 03:21 G	2797866.52	2797866.64	2797866.79	0.0088	0.0060
Mercury	2948-06-09 06:43 G	2797954.67	2797954.78	2797954.90	0.0088	0.0069
Mercury	2948-09-05 09:35 G	2798042.84	2798042.90	2798043.00	0.0088	0.0079
Venus	2948-09-17 13:26 G	2798054.93	2798055.06	2798055.23	0.0088	0.0066
Venus	2949-05-01 01:55 G	2798280.42	2798280.58	2798280.78	0.0088	0.0050
Venus	2949-12-12 14:52 G	2798505.92	2798506.12	2798506.33	0.0088	0.0033
Venus	2950-07-26 03:35 G	2798731.43	2798731.65	2798731.86	0.0088	0.0017
Venus	2951-03-08 16:19 G	2798956.96	2798957.18	2798957.40	0.0088	0.0002
Venus	2951-10-20 04:48 G	2799182.48	2799182.70	2799182.92	0.0088	0.0015
Venus	2952-06-01 17:16 G	2799408.02	2799408.22	2799408.43	0.0088	0.0031
Venus	2953-01-13 06:00 G	2799633.56	2799633.75	2799633.93	0.0088	0.0047
Venus	2953-08-26 18:00 G	2799859.12	2799859.25	2799859.43	0.0088	0.0064
Venus	2954-04-09 06:43 G	2800084.72	2800084.78	2800084.90	0.0088	0.0080
Moon	2987-08-06 01:40 G	2812256.56	2812256.57	2812256.64	0.0088	0.0088
Earth	2987-08-06 05:16 G	2812256.65	2812256.72	2812256.83	0.0088	0.0083
Earth	2988-08-07 18:28 G	2812624.09	2812624.27	2812624.47	0.0088	0.0061
Moon	2988-08-07 21:07 G	2812624.19	2812624.38	2812624.60	0.0088	0.0056 *
Moon	2989-08-10 06:00 G	2812991.55	2812991.75	2812991.99	0.0088	0.0043

Earth	2989-08-10 07:11 G	2812991.59	2812991.80	2812992.06	0.0088	0.0039	*
Earth	2990-08-12 20:52 G	2813359.11	2813359.37	2813359.63	0.0088	0.0016	
Moon	2990-08-12 21:35 G	2813359.13	2813359.40	2813359.67	0.0088	0.0012	*
Earth	2991-08-15 10:04 G	2813726.66	2813726.92	2813727.18	0.0089	0.0007	
Moon	2991-08-15 10:48 G	2813726.70	2813726.95	2813727.21	0.0089	0.0003	*
Moon	2992-08-16 20:52 G	2814094.13	2814094.37	2814094.63	0.0089	0.0034	
Earth	2992-08-16 22:48 G	2814094.23	2814094.45	2814094.72	0.0089	0.0030	*
Earth	2993-08-19 12:14 G	2814461.81	2814462.01	2814462.24	0.0089	0.0052	
Moon	2993-08-19 14:38 G	2814461.91	2814462.11	2814462.34	0.0089	0.0048	*
Moon	2994-08-21 21:35 G	2814829.30	2814829.40	2814829.54	0.0089	0.0079	
Earth	2994-08-22 01:26 G	2814829.43	2814829.56	2814829.72	0.0089	0.0074	*

# 4TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 4th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	3013-10-19 03:07 G		2821826.34	2821826.63	2821826.91	0.0089	0.0016	
Mars	3015-09-12 18:00 G		2822520.10	2822520.25	2822520.46	0.0089	0.0070	
Mercury	3026-05-16 09:07 G		2826418.86	2826418.88	2826418.92	0.0089	0.0087	
Mercury	3026-08-12 10:48 G		2826506.90	2826506.95	2826507.02	0.0089	0.0080	
Mercury	3026-11-08 12:14 G		2826594.94	2826595.01	2826595.10	0.0089	0.0073	
Mercury	3027-02-04 14:09 G		2826682.99	2826683.09	2826683.18	0.0089	0.0065	
Mercury	3027-05-03 15:35 G		2826771.05	2826771.15	2826771.26	0.0089	0.0058	
Mercury	3027-07-30 17:02 G		2826859.10	2826859.21	2826859.33	0.0089	0.0050	

Mercury	3027-10-26 18:43 G	2826947.16	2826947.28	2826947.40	0.0089	0.0043
Mercury	3028-01-22 20:09 G	2827035.22	2827035.34	2827035.47	0.0089	0.0036
Mercury	3028-04-19 21:35 G	2827123.28	2827123.40	2827123.54	0.0089	0.0029
Mercury	3028-07-16 23:16 G	2827211.34	2827211.47	2827211.61	0.0089	0.0021
Mercury	3028-10-13 00:43 G	2827299.40	2827299.53	2827299.67	0.0089	0.0014
Mercury	3029-01-09 02:24 G	2827387.46	2827387.60	2827387.74	0.0089	0.0007
Mercury	3029-04-07 03:50 G	2827475.52	2827475.66	2827475.80	0.0089	0.0001
Mercury	3029-07-04 05:16 G	2827563.59	2827563.72	2827563.86	0.0089	0.0008
Mercury	3029-09-30 06:43 G	2827651.65	2827651.78	2827651.92	0.0089	0.0016
Mercury	3029-12-27 08:24 G	2827739.72	2827739.85	2827739.98	0.0089	0.0022
Mercury	3030-03-25 09:50 G	2827827.78	2827827.91	2827828.04	0.0089	0.0029
Mercury	3030-06-21 11:16 G	2827915.85	2827915.97	2827916.10	0.0089	0.0037
Mercury	3030-09-17 12:43 G	2828003.92	2828004.03	2828004.15	0.0089	0.0044
Venus	3030-11-05 09:21 G	2828052.79	2828052.89	2828053.02	0.0089	0.0077
Mercury	3030-12-14 14:24 G	2828091.99	2828092.10	2828092.21	0.0089	0.0051
Mercury	3031-03-12 15:50 G	2828180.06	2828180.16	2828180.26	0.0089	0.0058
Mercury	3031-06-08 17:02 G	2828268.13	2828268.21	2828268.31	0.0089	0.0065
Venus	3031-06-18 22:33 G	2828278.30	2828278.44	2828278.63	0.0089	0.0060
Mercury	3031-09-04 18:28 G	2828356.20	2828356.27	2828356.36	0.0089	0.0072
Mercury	3031-12-01 19:55 G	2828444.28	2828444.33	2828444.40	0.0089	0.0080
Venus	3032-01-30 12:14 G	2828503.83	2828504.01	2828504.22	0.0089	0.0042
Mercury	3032-02-27 21:21 G	2828532.37	2828532.39	2828532.44	0.0089	0.0087
Venus	3032-09-12 01:55 G	2828729.38	2828729.58	2828729.80	0.0089	0.0025
Venus	3033-04-25 15:35 G	2828954.93	2828955.15	2828955.37	0.0089	0.0008
Venus	3033-12-07 04:48 G	2829180.49	2829180.70	2829180.92	0.0089	0.0009
Venus	3034-07-20 18:00 G	2829406.05	2829406.25	2829406.47	0.0089	0.0027
Venus	3035-03-03 07:26 G	2829631.63	2829631.81	2829632.01	0.0089	0.0044
Venus	3035-10-14 20:52 G	2829857.22	2829857.37	2829857.54	0.0089	0.0061
Venus	3036-05-27 10:04 G	2830082.83	2830082.92	2830083.04	0.0090	0.0078
Moon	3069-02-04 16:19 G	2842024.05	2842024.18	2842024.34	0.0089	0.0072

Earth	3069-02-04 19:40 G	2842024.21	2842024.32	2842024.47	0.0089	0.0076 *
Earth	3070-02-07 06:14 G	2842391.57	2842391.76	2842391.97	0.0089	0.0054
Moon	3070-02-07 08:38 G	2842391.68	2842391.86	2842392.08	0.0089	0.0058 *
Moon	3071-02-09 14:24 G	2842758.88	2842759.10	2842759.35	0.0089	0.0029
Earth	3071-02-09 16:19 G	2842758.97	2842759.18	2842759.44	0.0089	0.0033 *
Earth	3072-02-12 02:52 G	2843126.38	2843126.62	2843126.88	0.0089	0.0011
Moon	3072-02-12 03:35 G	2843126.40	2843126.65	2843126.92	0.0089	0.0015 *
Earth	3073-02-13 13:11 G	2843493.80	2843494.05	2843494.31	0.0089	0.0011
Moon	3073-02-13 14:09 G	2843493.85	2843494.09	2843494.33	0.0089	0.0015 *
Moon	3074-02-15 21:50 G	2843861.17	2843861.41	2843861.66	0.0089	0.0029
Earth	3074-02-15 23:31 G	2843861.25	2843861.48	2843861.72	0.0089	0.0033 *
Earth	3075-02-18 09:07 G	2844228.70	2844228.88	2844229.10	0.0089	0.0055
Moon	3075-02-18 12:28 G	2844228.84	2844229.02	2844229.21	0.0089	0.0059 *
Moon	3076-02-20 15:35 G	2844596.03	2844596.15	2844596.33	0.0089	0.0073
Earth	3076-02-20 18:57 G	2844596.20	2844596.29	2844596.45	0.0089	0.0077 *
Mars	3095-08-27 04:48 G	2851723.36	2851723.70	2851724.05	0.0088	0.0001
Mercury	3109-01-29 23:45 G	2856627.46	2856627.49	2856627.56	0.0088	0.0084
Mercury	3109-04-28 02:52 G	2856715.54	2856715.62	2856715.72	0.0088	0.0075
Mercury	3109-07-25 06:00 G	2856803.64	2856803.75	2856803.88	0.0088	0.0066
Mercury	3109-10-21 09:07 G	2856891.75	2856891.88	2856892.02	0.0088	0.0057
Mercury	3110-01-17 11:45 G	2856979.86	2856979.99	2856980.16	0.0088	0.0049
Mercury	3110-04-15 14:52 G	2857067.97	2857068.12	2857068.30	0.0088	0.0040
Mercury	3110-07-12 18:00 G	2857156.09	2857156.25	2857156.43	0.0088	0.0031
Mercury	3110-10-08 21:07 G	2857244.21	2857244.38	2857244.57	0.0088	0.0022
Mercury	3111-01-05 00:14 G	2857332.33	2857332.51	2857332.70	0.0088	0.0013
Mercury	3111-04-03 03:21 G	2857420.46	2857420.64	2857420.83	0.0088	0.0004
Mercury	3111-06-30 06:28 G	2857508.59	2857508.77	2857508.96	0.0088	0.0006
Mercury	3111-09-26 09:35 G	2857596.72	2857596.90	2857597.08	0.0088	0.0015
Mercury	3111-12-23 12:43 G	2857684.85	2857685.03	2857685.21	0.0088	0.0024
Mercury	3112-03-20 15:35 G	2857772.99	2857773.15	2857773.33	0.0088	0.0034

Mercury	3112-06-16 18:43 G	2857861.13	2857861.28	2857861.45	0.0088	0.0043
Mercury	3112-09-12 21:50 G	2857949.27	2857949.41	2857949.57	0.0088	0.0052
Mercury	3112-12-10 01:11 G	2858037.42	2858037.55	2858037.69	0.0088	0.0061
Venus	3112-12-21 22:48 G	2858049.34	2858049.45	2858049.57	0.0088	0.0074
Mercury	3113-03-08 04:19 G	2858125.58	2858125.68	2858125.80	0.0088	0.0070
Mercury	3113-06-04 07:11 G	2858213.74	2858213.80	2858213.89	0.0088	0.0080
Venus	3113-08-04 11:16 G	2858274.81	2858274.97	2858275.14	0.0088	0.0058
Venus	3114-03-18 00:00 G	2858500.31	2858500.50	2858500.70	0.0088	0.0042
Venus	3114-10-29 12:28 G	2858725.82	2858726.02	2858726.24	0.0088	0.0026
Venus	3115-06-12 00:57 G	2858951.33	2858951.54	2858951.77	0.0088	0.0010
Venus	3116-01-23 13:40 G	2859176.85	2859177.07	2859177.29	0.0088	0.0006
Venus	3116-09-05 02:09 G	2859402.38	2859402.59	2859402.81	0.0088	0.0023
Venus	3117-04-18 14:38 G	2859627.92	2859628.11	2859628.32	0.0088	0.0039
Venus	3117-11-30 03:07 G	2859853.47	2859853.63	2859853.82	0.0088	0.0055
Venus	3118-07-13 15:50 G	2860079.04	2860079.16	2860079.30	0.0088	0.0071
Venus	3119-02-24 04:48 G	2860304.68	2860304.70	2860304.72	0.0088	0.0087
Moon	3152-08-08 20:38 G	2872524.24	2872524.36	2872524.52	0.0088	0.0074
Earth	3152-08-08 21:21 G	2872524.28	2872524.39	2872524.57	0.0088	0.0074 *
Moon	3153-08-11 09:50 G	2872891.71	2872891.91	2872892.15	0.0088	0.0052
Earth	3153-08-11 10:33 G	2872891.75	2872891.94	2872892.18	0.0088	0.0052 *
Earth	3154-08-13 23:31 G	2873259.25	2873259.48	2873259.75	0.0088	0.0030
Moon	3154-08-14 00:57 G	2873259.32	2873259.54	2873259.80	0.0088	0.0030 *
Moon	3155-08-16 10:19 G	2873626.67	2873626.93	2873627.20	0.0089	0.0007
Earth	3155-08-16 12:57 G	2873626.78	2873627.04	2873627.31	0.0089	0.0007 *
Earth	3156-08-18 01:55 G	2873994.33	2873994.58	2873994.85	0.0089	0.0016
Moon	3156-08-18 05:16 G	2873994.48	2873994.72	2873994.98	0.0089	0.0016 *
Moon	3157-08-20 11:16 G	2874361.75	2874361.97	2874362.22	0.0089	0.0039
Earth	3157-08-20 14:52 G	2874361.89	2874362.12	2874362.37	0.0089	0.0038 *
Earth	3158-08-23 03:50 G	2874729.48	2874729.66	2874729.87	0.0089	0.0060
Moon	3158-08-23 07:26 G	2874729.64	2874729.81	2874730.03	0.0089	0.0059 *

Moon	3159-08-25 14:09 G	2875097.03	2875097.09	2875097.21	0.0089	0.0083
Earth	3159-08-25 17:16 G	2875097.14	2875097.22	2875097.33	0.0089	0.0082 *
Mars	3177-06-04 07:26 G	2881589.61	2881589.81	2881590.04	0.0089	0.0060
Mars	3179-04-28 22:48 G	2882283.19	2882283.45	2882283.75	0.0089	0.0027
Mercury	3191-02-11 08:09 G	2886589.81	2886589.84	2886589.87	0.0089	0.0087
Mercury	3191-05-10 09:35 G	2886677.84	2886677.90	2886677.97	0.0089	0.0080
Mercury	3191-08-06 11:02 G	2886765.89	2886765.96	2886766.05	0.0089	0.0073
Mercury	3191-11-02 12:57 G	2886853.94	2886854.04	2886854.13	0.0089	0.0065
Mercury	3192-01-29 14:09 G	2886942.00	2886942.09	2886942.21	0.0089	0.0058
Mercury	3192-04-26 15:50 G	2887030.05	2887030.16	2887030.28	0.0089	0.0050
Mercury	3192-07-23 17:31 G	2887118.11	2887118.23	2887118.35	0.0089	0.0043
Mercury	3192-10-19 18:57 G	2887206.17	2887206.29	2887206.42	0.0089	0.0036
Mercury	3193-01-15 20:24 G	2887294.23	2887294.35	2887294.49	0.0089	0.0029
Mercury	3193-04-13 22:04 G	2887382.29	2887382.42	2887382.56	0.0089	0.0021
Mercury	3193-07-10 23:31 G	2887470.35	2887470.48	2887470.62	0.0089	0.0014
Mercury	3193-10-07 01:11 G	2887558.41	2887558.55	2887558.69	0.0089	0.0007
Mercury	3194-01-03 02:38 G	2887646.47	2887646.61	2887646.75	0.0089	0.0001
Mercury	3194-04-01 04:04 G	2887734.54	2887734.67	2887734.81	0.0089	0.0008
Mercury	3194-06-28 05:31 G	2887822.60	2887822.73	2887822.87	0.0089	0.0016
Mercury	3194-09-24 07:11 G	2887910.67	2887910.80	2887910.93	0.0089	0.0022
Mercury	3194-12-21 08:38 G	2887998.73	2887998.86	2887998.99	0.0089	0.0029
Venus	3195-02-07 16:19 G	2888047.14	2888047.18	2888047.24	0.0089	0.0087
Mercury	3195-03-19 10:04 G	2888086.80	2888086.92	2888087.05	0.0089	0.0037
Mercury	3195-06-15 11:31 G	2888174.87	2888174.98	2888175.11	0.0089	0.0044
Mercury	3195-09-11 13:11 G	2888262.94	2888263.05	2888263.16	0.0089	0.0051
Venus	3195-09-21 05:45 G	2888272.62	2888272.74	2888272.89	0.0089	0.0070
Mercury	3195-12-08 14:38 G	2888351.01	2888351.11	2888351.21	0.0089	0.0058
Mercury	3196-03-05 16:04 G	2888439.08	2888439.17	2888439.26	0.0089	0.0065
Venus	3196-05-03 19:11 G	2888498.14	2888498.30	2888498.49	0.0089	0.0053
Mercury	3196-06-01 17:31 G	2888527.15	2888527.23	2888527.31	0.0089	0.0072

Mercury	3196-08-28 18:57 G	2888615.23	2888615.29	2888615.35	0.0089	0.0079
Mercury	3196-11-24 20:09 G	2888703.32	2888703.34	2888703.39	0.0089	0.0086
Venus	3196-12-15 08:38 G	2888723.67	2888723.86	2888724.07	0.0089	0.0036
Venus	3197-07-28 22:04 G	2888949.22	2888949.42	2888949.65	0.0089	0.0019
Venus	3198-03-11 11:45 G	2889174.77	2889174.99	2889175.21	0.0089	0.0001
Venus	3198-10-23 01:11 G	2889400.34	2889400.55	2889400.77	0.0089	0.0016
Venus	3199-06-05 14:24 G	2889625.91	2889626.10	2889626.31	0.0089	0.0034
Venus	3200-01-17 03:50 G	2889851.49	2889851.66	2889851.85	0.0089	0.0051
Venus	3200-08-29 17:31 G	2890077.09	2890077.23	2890077.37	0.0089	0.0068
Venus	3201-04-12 06:14 G	2890302.72	2890302.76	2890302.85	0.0089	0.0086
Earth	3233-02-05 02:09 G	2901924.57	2901924.59	2901924.62	0.0089	0.0088
Moon	3233-02-05 04:19 G	2901924.64	2901924.68	2901924.77	0.0089	0.0086
Moon	3234-02-07 11:16 G	2902291.84	2902291.97	2902292.14	0.0089	0.0070
Earth	3234-02-07 12:00 G	2902291.86	2902292.00	2902292.19	0.0089	0.0067 *
Moon	3235-02-09 22:48 G	2902659.23	2902659.45	2902659.69	0.0089	0.0043
Earth	3235-02-09 22:48 G	2902659.24	2902659.45	2902659.67	0.0089	0.0045 *
Earth	3236-02-12 08:52 G	2903026.64	2903026.87	2903027.13	0.0089	0.0024
Moon	3236-02-12 10:19 G	2903026.70	2903026.93	2903027.17	0.0089	0.0026 *
Moon	3237-02-13 17:02 G	2903393.95	2903394.21	2903394.47	0.0089	0.0001
Earth	3237-02-13 19:40 G	2903394.07	2903394.32	2903394.58	0.0089	0.0002 *
Earth	3238-02-16 05:45 G	2903761.50	2903761.74	2903762.00	0.0089	0.0020
Moon	3238-02-16 08:38 G	2903761.63	2903761.86	2903762.12	0.0089	0.0018 *
Moon	3239-02-18 12:14 G	2904128.80	2904129.01	2904129.25	0.0089	0.0044
Earth	3239-02-18 15:35 G	2904128.95	2904129.15	2904129.40	0.0089	0.0042 *
Earth	3240-02-21 01:55 G	2904496.42	2904496.58	2904496.78	0.0089	0.0063
Moon	3240-02-21 05:31 G	2904496.55	2904496.73	2904496.93	0.0089	0.0060 *
Moon	3241-02-22 09:50 G	2904863.85	2904863.91	2904863.96	0.0089	0.0086
Earth	3241-02-22 12:28 G	2904863.95	2904864.02	2904864.10	0.0089	0.0084 *
Mars	3259-04-10 07:26 G	2911484.53	2911484.81	2911485.09	0.0088	0.0052
Mars	3261-03-06 15:07 G	2912180.85	2912181.13	2912181.42	0.0088	0.0048



Mercury	3273-10-26 21:35 G	2916798.36	2916798.40	2916798.47	0.0088	0.0083
Mercury	3274-01-23 00:43 G	2916886.44	2916886.53	2916886.63	0.0088	0.0074
Mercury	3274-04-21 03:35 G	2916974.54	2916974.65	2916974.78	0.0088	0.0065
Mercury	3274-07-18 06:43 G	2917062.65	2917062.78	2917062.93	0.0088	0.0056
Mercury	3274-10-14 09:50 G	2917150.76	2917150.91	2917151.07	0.0088	0.0047
Mercury	3275-01-10 12:57 G	2917238.87	2917239.04	2917239.20	0.0088	0.0038
Mercury	3275-04-08 15:35 G	2917326.99	2917327.15	2917327.34	0.0088	0.0030
Mercury	3275-07-05 18:43 G	2917415.11	2917415.28	2917415.47	0.0088	0.0021
Mercury	3275-10-01 22:04 G	2917503.24	2917503.42	2917503.60	0.0088	0.0011
Mercury	3275-12-29 01:11 G	2917591.36	2917591.55	2917591.73	0.0088	0.0002
Mercury	3276-03-26 04:19 G	2917679.49	2917679.68	2917679.86	0.0088	0.0007
Mercury	3276-06-22 07:11 G	2917767.62	2917767.80	2917767.99	0.0088	0.0016
Mercury	3276-09-18 10:19 G	2917855.76	2917855.93	2917856.11	0.0088	0.0025
Mercury	3276-12-15 13:11 G	2917943.89	2917944.05	2917944.23	0.0088	0.0035
Mercury	3277-03-13 16:19 G	2918032.03	2918032.18	2918032.35	0.0088	0.0044
Venus	3277-03-25 07:40 G	2918043.76	2918043.82	2918043.90	0.0088	0.0083
Mercury	3277-06-09 19:26 G	2918120.18	2918120.31	2918120.47	0.0088	0.0053
Mercury	3277-09-05 22:48 G	2918208.32	2918208.45	2918208.58	0.0088	0.0062
Venus	3277-11-05 20:09 G	2918269.21	2918269.34	2918269.50	0.0088	0.0067
Mercury	3277-12-03 01:40 G	2918296.48	2918296.57	2918296.69	0.0088	0.0072
Mercury	3278-03-01 04:48 G	2918384.65	2918384.70	2918384.79	0.0088	0.0081
Venus	3278-06-19 08:38 G	2918494.70	2918494.86	2918495.06	0.0088	0.0051
Venus	3279-01-30 21:21 G	2918720.20	2918720.39	2918720.61	0.0088	0.0035
Venus	3279-09-13 10:19 G	2918945.71	2918945.93	2918946.14	0.0088	0.0018
Venus	3280-04-25 22:48 G	2919171.23	2919171.45	2919171.67	0.0088	0.0002
Venus	3280-12-07 11:16 G	2919396.76	2919396.97	2919397.19	0.0088	0.0015
Venus	3281-07-20 23:45 G	2919622.29	2919622.49	2919622.71	0.0088	0.0031
Venus	3282-03-03 12:28 G	2919847.84	2919848.02	2919848.22	0.0088	0.0047
Venus	3282-10-15 00:57 G	2920073.40	2920073.54	2920073.71	0.0088	0.0063
Venus	3283-05-28 13:40 G	2920298.98	2920299.07	2920299.17	0.0088	0.0079

Earth	3316-08-09 02:09 G	2932424.52	2932424.59	2932424.66	0.0088	0.0085
Earth	3317-08-11 14:38 G	2932791.95	2932792.11	2932792.31	0.0088	0.0064
Moon	3317-08-11 17:31 G	2932792.04	2932792.23	2932792.42	0.0088	0.0059 *
Moon	3318-08-14 00:43 G	2933159.32	2933159.53	2933159.77	0.0088	0.0046
Earth	3318-08-14 03:50 G	2933159.44	2933159.66	2933159.91	0.0088	0.0042 *
Earth	3319-08-16 17:02 G	2933526.96	2933527.21	2933527.47	0.0088	0.0020
Moon	3319-08-16 20:38 G	2933527.11	2933527.36	2933527.62	0.0088	0.0015 *
Moon	3320-08-18 02:24 G	2933894.34	2933894.60	2933894.86	0.0088	0.0003
Earth	3320-08-18 06:14 G	2933894.50	2933894.76	2933895.02	0.0088	0.0003 *
Earth	3321-08-20 18:43 G	2934262.05	2934262.28	2934262.55	0.0089	0.0025
Moon	3321-08-20 22:04 G	2934262.18	2934262.42	2934262.68	0.0089	0.0029 *
Moon	3322-08-23 05:31 G	2934629.51	2934629.73	2934629.96	0.0089	0.0042
Earth	3322-08-23 07:55 G	2934629.63	2934629.83	2934630.07	0.0089	0.0047 *
Earth	3323-08-25 20:52 G	2934997.23	2934997.37	2934997.56	0.0089	0.0069
Moon	3323-08-25 22:19 G	2934997.30	2934997.43	2934997.60	0.0089	0.0073 *
Moon	3324-08-27 09:35 G	2935364.87	2935364.90	2935364.98	0.0089	0.0087
Mars	3342-12-13 03:50 G	2942046.39	2942046.66	2942046.95	0.0089	0.0018
Mars	3344-11-05 18:57 G	2942740.14	2942740.29	2942740.51	0.0089	0.0069
Mercury	3355-11-09 06:43 G	2946760.76	2946760.78	2946760.83	0.0089	0.0087
Mercury	3356-02-05 08:24 G	2946848.80	2946848.85	2946848.92	0.0089	0.0079
Mercury	3356-05-03 10:04 G	2946936.84	2946936.92	2946937.01	0.0089	0.0072
Mercury	3356-07-30 11:31 G	2947024.90	2947024.98	2947025.09	0.0089	0.0065
Mercury	3356-10-26 12:57 G	2947112.95	2947113.04	2947113.16	0.0089	0.0058
Mercury	3357-01-22 14:52 G	2947201.01	2947201.12	2947201.24	0.0089	0.0050
Mercury	3357-04-20 16:19 G	2947289.06	2947289.18	2947289.31	0.0089	0.0042
Mercury	3357-07-17 17:45 G	2947377.12	2947377.24	2947377.38	0.0089	0.0036
Mercury	3357-10-13 19:26 G	2947465.18	2947465.31	2947465.45	0.0089	0.0028
Mercury	3358-01-09 21:07 G	2947553.24	2947553.38	2947553.51	0.0089	0.0020
Mercury	3358-04-07 22:33 G	2947641.31	2947641.44	2947641.58	0.0089	0.0013
Mercury	3358-07-05 00:00 G	2947729.37	2947729.50	2947729.64	0.0089	0.0007

Mercury	3358-10-01 01:40 G	2947817.43	2947817.57	2947817.71	0.0089	0.0002
Mercury	3358-12-28 03:07 G	2947905.49	2947905.63	2947905.77	0.0089	0.0009
Mercury	3359-03-26 04:48 G	2947993.56	2947993.70	2947993.83	0.0089	0.0016
Mercury	3359-06-22 06:14 G	2948081.63	2948081.76	2948081.89	0.0089	0.0023
Mercury	3359-09-18 07:40 G	2948169.69	2948169.82	2948169.95	0.0089	0.0030
Mercury	3359-12-15 08:52 G	2948257.76	2948257.87	2948258.01	0.0089	0.0038
Venus	3359-12-24 13:26 G	2948266.97	2948267.06	2948267.17	0.0089	0.0080
Mercury	3360-03-12 10:33 G	2948345.83	2948345.94	2948346.06	0.0089	0.0044
Mercury	3360-06-08 12:00 G	2948433.90	2948434.00	2948434.12	0.0089	0.0051
Venus	3360-08-06 02:52 G	2948492.48	2948492.62	2948492.79	0.0089	0.0063
Mercury	3360-09-04 13:26 G	2948521.97	2948522.06	2948522.17	0.0089	0.0059
Mercury	3360-12-01 14:52 G	2948610.04	2948610.12	2948610.22	0.0089	0.0066
Mercury	3361-02-27 16:19 G	2948698.11	2948698.18	2948698.27	0.0089	0.0073
Venus	3361-03-19 16:19 G	2948718.00	2948718.18	2948718.38	0.0089	0.0045
Mercury	3361-05-26 17:45 G	2948786.19	2948786.24	2948786.31	0.0089	0.0080
Mercury	3361-08-22 19:11 G	2948874.28	2948874.30	2948874.34	0.0089	0.0087
Venus	3361-10-31 06:00 G	2948943.54	2948943.75	2948943.96	0.0089	0.0028
Venus	3362-06-13 19:11 G	2949169.09	2949169.30	2949169.53	0.0089	0.0011
Venus	3363-01-25 08:52 G	2949394.65	2949394.87	2949395.08	0.0089	0.0007
Venus	3363-09-07 22:04 G	2949620.22	2949620.42	2949620.64	0.0089	0.0024
Venus	3364-04-20 11:16 G	2949845.79	2949845.97	2949846.18	0.0089	0.0042
Venus	3364-12-02 00:43 G	2950071.38	2950071.53	2950071.71	0.0089	0.0059
Venus	3365-07-15 14:09 G	2950296.99	2950297.09	2950297.22	0.0089	0.0076
Moon	3398-02-07 18:14 G	2962192.16	2962192.26	2962192.43	0.0089	0.0076
Earth	3398-02-07 19:11 G	2962192.21	2962192.30	2962192.44	0.0089	0.0079 *
Earth	3399-02-10 06:00 G	2962559.56	2962559.75	2962559.95	0.0089	0.0057
Moon	3399-02-10 07:40 G	2962559.65	2962559.82	2962560.01	0.0089	0.0060 *
Moon	3400-02-12 13:26 G	2962926.83	2962927.06	2962927.32	0.0089	0.0033
Earth	3400-02-12 16:04 G	2962926.95	2962927.17	2962927.42	0.0089	0.0036 *
Earth	3401-02-15 02:24 G	2963294.36	2963294.60	2963294.86	0.0089	0.0015

Moon	3401-02-15 06:00 G	2963294.51	2963294.75	2963295.01	0.0089	0.0018	*
Moon	3402-02-17 09:35 G	2963661.65	2963661.90	2963662.15	0.0089	0.0010	
Earth	3402-02-17 12:57 G	2963661.79	2963662.04	2963662.30	0.0089	0.0007	*
Earth	3403-02-19 23:02 G	2964029.23	2964029.46	2964029.71	0.0089	0.0029	
Moon	3403-02-20 02:24 G	2964029.37	2964029.60	2964029.86	0.0089	0.0025	*
Moon	3404-02-22 07:26 G	2964396.61	2964396.81	2964397.00	0.0089	0.0053	
Earth	3404-02-22 09:21 G	2964396.70	2964396.89	2964397.12	0.0089	0.0050	*
Earth	3405-02-23 19:40 G	2964764.18	2964764.32	2964764.48	0.0089	0.0071	
Moon	3405-02-23 20:38 G	2964764.22	2964764.36	2964764.56	0.0089	0.0068	*
Mars	3424-10-19 18:57 G	2971941.94	2971942.29	2971942.63	0.0088	0.0001	
Mercury	3438-07-25 19:40 G	2976969.26	2976969.32	2976969.40	0.0088	0.0081	
Mercury	3438-10-21 22:48 G	2977057.35	2977057.45	2977057.56	0.0088	0.0072	
Mercury	3439-01-18 01:55 G	2977145.45	2977145.58	2977145.70	0.0088	0.0063	
Mercury	3439-04-16 04:33 G	2977233.56	2977233.69	2977233.85	0.0088	0.0055	
Mercury	3439-07-13 07:26 G	2977321.67	2977321.81	2977321.98	0.0088	0.0046	
Mercury	3439-10-09 10:33 G	2977409.79	2977409.94	2977410.12	0.0088	0.0037	
Mercury	3440-01-05 13:40 G	2977497.91	2977498.07	2977498.25	0.0088	0.0028	
Mercury	3440-04-02 16:48 G	2977586.03	2977586.20	2977586.39	0.0088	0.0019	
Mercury	3440-06-29 19:55 G	2977674.15	2977674.33	2977674.52	0.0088	0.0010	
Mercury	3440-09-25 23:02 G	2977762.28	2977762.46	2977762.64	0.0088	0.0001	
Mercury	3440-12-23 02:09 G	2977850.41	2977850.59	2977850.77	0.0088	0.0009	
Mercury	3441-03-21 05:02 G	2977938.54	2977938.71	2977938.90	0.0088	0.0018	
Mercury	3441-06-17 08:09 G	2978026.67	2978026.84	2978027.02	0.0088	0.0027	
Mercury	3441-09-13 11:16 G	2978114.81	2978114.97	2978115.14	0.0088	0.0036	
Mercury	3441-12-10 14:24 G	2978202.95	2978203.10	2978203.26	0.0088	0.0045	
Venus	3442-02-09 06:00 G	2978263.64	2978263.75	2978263.86	0.0088	0.0075	
Mercury	3442-03-08 17:16 G	2978291.09	2978291.22	2978291.38	0.0088	0.0055	
Mercury	3442-06-04 20:24 G	2978379.24	2978379.35	2978379.49	0.0088	0.0064	
Mercury	3442-08-31 23:45 G	2978467.40	2978467.49	2978467.60	0.0088	0.0073	
Venus	3442-09-22 18:14 G	2978489.11	2978489.26	2978489.44	0.0088	0.0059	

Mercury	3442-11-28 02:52 G	2978555.57	2978555.62	2978555.69	0.0088	0.0082
Venus	3443-05-06 06:43 G	2978714.61	2978714.78	2978714.99	0.0088	0.0043
Venus	3443-12-17 19:26 G	2978940.11	2978940.31	2978940.53	0.0088	0.0027
Venus	3444-07-30 08:24 G	2979165.63	2979165.85	2979166.07	0.0088	0.0010
Venus	3445-03-12 20:52 G	2979391.16	2979391.37	2979391.60	0.0088	0.0007
Venus	3445-10-24 09:21 G	2979616.69	2979616.89	2979617.11	0.0088	0.0023
Venus	3446-06-06 21:50 G	2979842.23	2979842.41	2979842.62	0.0088	0.0039
Venus	3447-01-18 10:33 G	2980067.77	2980067.94	2980068.12	0.0088	0.0055
Venus	3447-08-31 22:33 G	2980293.34	2980293.44	2980293.60	0.0088	0.0072
Venus	3448-04-13 11:45 G	2980518.99	2980518.99	2980519.01	0.0088	0.0088
Saturn	3459-10-06 12:28 G	2984711.34	2984712.02	2984712.75	0.0088	0.0017
Moon	3481-08-11 15:50 G	2992692.04	2992692.16	2992692.33	0.0088	0.0073
Earth	3481-08-11 19:26 G	2992692.20	2992692.31	2992692.48	0.0088	0.0075 *
Earth	3482-08-14 08:38 G	2993059.67	2993059.86	2993060.09	0.0088	0.0054
Moon	3482-08-14 12:14 G	2993059.83	2993060.01	2993060.23	0.0088	0.0055 *
Moon	3483-08-16 18:14 G	2993427.03	2993427.26	2993427.52	0.0088	0.0031
Earth	3483-08-16 22:04 G	2993427.18	2993427.42	2993427.67	0.0088	0.0032 *
Earth	3484-08-18 10:48 G	2993794.70	2993794.95	2993795.22	0.0088	0.0010
Moon	3484-08-18 13:55 G	2993794.82	2993795.08	2993795.35	0.0088	0.0011 *
Moon	3485-08-20 22:19 G	2994162.18	2994162.43	2994162.69	0.0088	0.0013
Earth	3485-08-21 00:00 G	2994162.24	2994162.50	2994162.76	0.0088	0.0012 *
Earth	3486-08-23 12:43 G	2994529.80	2994530.03	2994530.29	0.0089	0.0034
Moon	3486-08-23 13:40 G	2994529.84	2994530.07	2994530.34	0.0089	0.0034 *
Earth	3487-08-26 01:26 G	2994897.38	2994897.56	2994897.79	0.0089	0.0056
Moon	3487-08-26 02:24 G	2994897.41	2994897.60	2994897.80	0.0089	0.0056 *
Moon	3488-08-27 12:43 G	2995264.91	2995265.03	2995265.19	0.0089	0.0076
Earth	3488-08-27 14:38 G	2995265.00	2995265.11	2995265.25	0.0089	0.0077 *
Mars	3506-07-30 13:26 G	3001809.87	3001810.06	3001810.30	0.0089	0.0061
Mars	3508-06-23 03:21 G	3002503.37	3002503.64	3002503.93	0.0089	0.0025
Mercury	3520-08-07 06:00 G	3006931.72	3006931.75	3006931.79	0.0089	0.0086

Mercury	3520-11-03 07:26 G	3007019.75	3007019.81	3007019.88	0.0089	0.0078
Mercury	3521-01-30 09:07 G	3007107.80	3007107.88	3007107.97	0.0089	0.0071
Mercury	3521-04-28 10:33 G	3007195.85	3007195.94	3007196.05	0.0089	0.0064
Mercury	3521-07-25 12:14 G	3007283.91	3007284.01	3007284.12	0.0089	0.0056
Mercury	3521-10-21 13:55 G	3007371.96	3007372.08	3007372.20	0.0089	0.0049
Mercury	3522-01-17 15:21 G	3007460.02	3007460.14	3007460.27	0.0089	0.0042
Mercury	3522-04-15 16:48 G	3007548.08	3007548.20	3007548.34	0.0089	0.0035
Mercury	3522-07-12 18:28 G	3007636.14	3007636.27	3007636.41	0.0089	0.0027
Mercury	3522-10-08 20:09 G	3007724.20	3007724.34	3007724.47	0.0089	0.0020
Mercury	3523-01-04 21:35 G	3007812.27	3007812.40	3007812.54	0.0089	0.0012
Mercury	3523-04-02 23:16 G	3007900.33	3007900.47	3007900.60	0.0089	0.0006
Mercury	3523-06-30 00:43 G	3007988.39	3007988.53	3007988.67	0.0089	0.0002
Mercury	3523-09-26 02:09 G	3008076.46	3008076.59	3008076.73	0.0089	0.0010
Mercury	3523-12-23 03:50 G	3008164.52	3008164.66	3008164.79	0.0089	0.0017
Mercury	3524-03-20 05:16 G	3008252.59	3008252.72	3008252.85	0.0089	0.0024
Venus	3524-03-28 21:35 G	3008261.40	3008261.40	3008261.43	0.0089	0.0089
Mercury	3524-06-16 06:43 G	3008340.65	3008340.78	3008340.91	0.0089	0.0031
Mercury	3524-09-12 08:09 G	3008428.72	3008428.84	3008428.97	0.0089	0.0038
Venus	3524-11-09 11:02 G	3008486.84	3008486.96	3008487.10	0.0089	0.0072
Mercury	3524-12-09 09:35 G	3008516.79	3008516.90	3008517.02	0.0089	0.0045
Mercury	3525-03-07 11:02 G	3008604.86	3008604.96	3008605.08	0.0089	0.0052
Mercury	3525-06-03 12:28 G	3008692.93	3008693.02	3008693.13	0.0089	0.0060
Venus	3525-06-23 00:14 G	3008712.35	3008712.51	3008712.70	0.0089	0.0055
Mercury	3525-08-30 13:55 G	3008781.00	3008781.08	3008781.18	0.0089	0.0067
Mercury	3525-11-26 15:21 G	3008869.08	3008869.14	3008869.23	0.0089	0.0074
Venus	3526-02-03 13:40 G	3008937.88	3008938.07	3008938.28	0.0089	0.0038
Mercury	3526-02-22 16:48 G	3008957.16	3008957.20	3008957.27	0.0089	0.0081
Mercury	3526-05-21 18:14 G	3009045.25	3009045.26	3009045.30	0.0089	0.0088
Venus	3526-09-17 03:07 G	3009163.43	3009163.63	3009163.86	0.0089	0.0021
Venus	3527-04-30 16:48 G	3009388.98	3009389.20	3009389.42	0.0089	0.0003

Venus	3527-12-12 06:14 G	3009614.54	3009614.76	3009614.97	0.0089	0.0015
Venus	3528-07-24 19:11 G	3009840.11	3009840.30	3009840.52	0.0089	0.0033
Venus	3529-03-07 08:38 G	3010065.69	3010065.86	3010066.06	0.0089	0.0050
Venus	3529-10-18 22:04 G	3010291.29	3010291.42	3010291.58	0.0089	0.0067
Venus	3530-06-01 11:45 G	3010516.92	3010516.99	3010517.07	0.0089	0.0084
Moon	3562-02-09 04:48 G	3022092.68	3022092.70	3022092.78	0.0089	0.0087
Moon	3563-02-11 10:04 G	3022459.79	3022459.92	3022460.08	0.0089	0.0073
Earth	3563-02-11 13:26 G	3022459.91	3022460.06	3022460.23	0.0089	0.0069 *
Earth	3564-02-13 23:31 G	3022827.28	3022827.48	3022827.71	0.0089	0.0048
Moon	3564-02-14 02:52 G	3022827.42	3022827.62	3022827.85	0.0089	0.0045 *
Moon	3565-02-15 06:14 G	3023194.54	3023194.76	3023195.01	0.0089	0.0031
Earth	3565-02-15 09:50 G	3023194.69	3023194.91	3023195.17	0.0089	0.0027 *
Earth	3566-02-17 20:24 G	3023562.10	3023562.35	3023562.61	0.0089	0.0006
Moon	3566-02-17 23:16 G	3023562.21	3023562.47	3023562.73	0.0089	0.0002 *
Moon	3567-02-20 04:33 G	3023929.45	3023929.69	3023929.94	0.0089	0.0013
Earth	3567-02-20 06:43 G	3023929.54	3023929.78	3023930.04	0.0089	0.0016 *
Earth	3568-02-22 17:02 G	3024296.99	3024297.21	3024297.45	0.0089	0.0037
Moon	3568-02-22 17:45 G	3024297.03	3024297.24	3024297.49	0.0089	0.0041 *
Earth	3569-02-24 03:07 G	3024664.46	3024664.63	3024664.84	0.0089	0.0059
Moon	3569-02-24 04:04 G	3024664.48	3024664.67	3024664.87	0.0089	0.0055 *
Moon	3570-02-26 12:14 G	3025031.93	3025032.01	3025032.12	0.0089	0.0082
Earth	3570-02-26 13:55 G	3025031.97	3025032.08	3025032.19	0.0089	0.0079 *
Mars	3588-06-02 22:19 G	3031703.16	3031703.43	3031703.72	0.0088	0.0051
Mars	3590-04-30 06:28 G	3032399.52	3032399.77	3032400.09	0.0088	0.0050
Mercury	3603-01-24 14:52 G	3037052.12	3037052.12	3037052.15	0.0088	0.0088
Mercury	3603-04-22 17:45 G	3037140.18	3037140.24	3037140.33	0.0088	0.0079
Mercury	3603-07-19 20:52 G	3037228.27	3037228.37	3037228.49	0.0088	0.0070
Mercury	3603-10-15 23:45 G	3037316.37	3037316.49	3037316.63	0.0088	0.0061
Mercury	3604-01-12 02:52 G	3037404.48	3037404.62	3037404.77	0.0088	0.0052
Mercury	3604-04-09 06:00 G	3037492.59	3037492.75	3037492.91	0.0088	0.0043

Mercury	3604-07-06 08:38 G	3037580.71	3037580.86	3037581.04	0.0088	0.0035
Mercury	3604-10-02 11:45 G	3037668.83	3037668.99	3037669.18	0.0088	0.0026
Mercury	3604-12-29 14:52 G	3037756.95	3037757.12	3037757.31	0.0088	0.0017
Mercury	3605-03-27 18:00 G	3037845.07	3037845.25	3037845.44	0.0088	0.0008
Mercury	3605-06-23 21:07 G	3037933.20	3037933.38	3037933.56	0.0088	0.0002
Mercury	3605-09-20 00:14 G	3038021.33	3038021.51	3038021.69	0.0088	0.0011
Mercury	3605-12-17 03:07 G	3038109.46	3038109.63	3038109.82	0.0088	0.0020
Mercury	3606-03-15 06:14 G	3038197.59	3038197.76	3038197.94	0.0088	0.0029
Venus	3606-05-14 15:07 G	3038258.09	3038258.13	3038258.22	0.0088	0.0084
Mercury	3606-06-11 09:21 G	3038285.73	3038285.89	3038286.06	0.0088	0.0038
Mercury	3606-09-07 12:14 G	3038373.87	3038374.01	3038374.18	0.0088	0.0048
Mercury	3606-12-04 15:21 G	3038462.01	3038462.14	3038462.30	0.0088	0.0057
Venus	3606-12-26 04:04 G	3038483.54	3038483.67	3038483.82	0.0088	0.0067
Mercury	3607-03-02 18:28 G	3038550.16	3038550.27	3038550.41	0.0088	0.0066
Mercury	3607-05-29 21:50 G	3038638.32	3038638.41	3038638.51	0.0088	0.0075
Venus	3607-08-08 16:33 G	3038709.03	3038709.19	3038709.38	0.0088	0.0051
Mercury	3607-08-26 01:11 G	3038726.50	3038726.55	3038726.60	0.0088	0.0084
Venus	3608-03-21 05:16 G	3038934.54	3038934.72	3038934.94	0.0088	0.0035
Venus	3608-11-01 18:14 G	3039160.05	3039160.26	3039160.48	0.0088	0.0018
Venus	3609-06-15 06:57 G	3039385.57	3039385.79	3039386.01	0.0088	0.0002
Venus	3610-01-26 19:26 G	3039611.10	3039611.31	3039611.53	0.0088	0.0015
Venus	3610-09-09 08:09 G	3039836.64	3039836.84	3039837.05	0.0088	0.0031
Venus	3611-04-22 20:24 G	3040062.18	3040062.35	3040062.55	0.0088	0.0048
Venus	3611-12-04 09:07 G	3040287.74	3040287.88	3040288.04	0.0088	0.0064
Venus	3612-07-16 21:21 G	3040513.33	3040513.39	3040513.50	0.0088	0.0081
Earth	3645-08-12 01:40 G	3052592.52	3052592.57	3052592.64	0.0088	0.0086
Moon	3646-08-14 12:00 G	3052959.83	3052960.00	3052960.20	0.0088	0.0061
Earth	3646-08-14 14:52 G	3052959.95	3052960.12	3052960.31	0.0088	0.0065 *
Earth	3647-08-17 03:35 G	3053327.45	3053327.65	3053327.90	0.0088	0.0044
Moon	3647-08-17 06:00 G	3053327.55	3053327.75	3053328.00	0.0088	0.0048 *



Moon	3648-08-18 15:35 G	3053694.91	3053695.15	3053695.41	0.0088	0.0018
Earth	3648-08-18 17:02 G	3053694.97	3053695.21	3053695.47	0.0088	0.0022 *
Moon	3649-08-21 06:00 G	3054062.48	3054062.75	3054063.02	0.0088	0.0004
Earth	3649-08-21 06:14 G	3054062.50	3054062.76	3054063.03	0.0088	0.0002 *
Earth	3650-08-23 19:11 G	3054430.05	3054430.30	3054430.56	0.0088	0.0021
Moon	3650-08-23 20:09 G	3054430.11	3054430.34	3054430.59	0.0088	0.0026 *
Moon	3651-08-26 05:31 G	3054797.51	3054797.73	3054797.99	0.0089	0.0039
Earth	3651-08-26 08:09 G	3054797.62	3054797.84	3054798.07	0.0089	0.0043 *
Earth	3652-08-27 20:38 G	3055165.21	3055165.36	3055165.56	0.0089	0.0065
Moon	3652-08-28 00:00 G	3055165.36	3055165.50	3055165.68	0.0089	0.0069 *
Moon	3653-08-30 06:14 G	3055532.69	3055532.76	3055532.89	0.0089	0.0082
Earth	3653-08-30 09:50 G	3055532.87	3055532.91	3055533.00	0.0089	0.0086 *
Jupiter	3671-04-27 18:28 G	3061981.76	3061982.27	3061982.79	0.0089	0.0011
Mars	3672-02-06 13:26 G	3062266.78	3062267.06	3062267.34	0.0089	0.0016
Mars	3673-12-31 02:52 G	3062960.47	3062960.62	3062960.83	0.0089	0.0070
Mercury	3685-05-04 05:02 G	3067102.68	3067102.71	3067102.77	0.0089	0.0084
Mercury	3685-07-31 06:43 G	3067190.72	3067190.78	3067190.86	0.0089	0.0077
Mercury	3685-10-27 08:09 G	3067278.77	3067278.84	3067278.94	0.0089	0.0070
Mercury	3686-01-23 10:04 G	3067366.82	3067366.92	3067367.02	0.0089	0.0062
Mercury	3686-04-21 11:31 G	3067454.88	3067454.98	3067455.10	0.0089	0.0055
Mercury	3686-07-18 12:57 G	3067542.93	3067543.04	3067543.17	0.0089	0.0048
Mercury	3686-10-14 14:52 G	3067630.99	3067631.12	3067631.24	0.0089	0.0040
Mercury	3687-01-10 16:19 G	3067719.05	3067719.18	3067719.31	0.0089	0.0032
Mercury	3687-04-08 17:45 G	3067807.11	3067807.24	3067807.38	0.0089	0.0025
Mercury	3687-07-05 19:26 G	3067895.17	3067895.31	3067895.45	0.0089	0.0018
Mercury	3687-10-01 20:52 G	3067983.24	3067983.37	3067983.51	0.0089	0.0011
Mercury	3687-12-28 22:33 G	3068071.30	3068071.44	3068071.58	0.0089	0.0003
Mercury	3688-03-26 00:00 G	3068159.36	3068159.50	3068159.64	0.0089	0.0004
Mercury	3688-06-22 01:26 G	3068247.43	3068247.56	3068247.70	0.0089	0.0012
Mercury	3688-09-18 03:07 G	3068335.49	3068335.63	3068335.76	0.0089	0.0018

Mercury	3688-12-15 04:33 G	3068423.56	3068423.69	3068423.82	0.0089	0.0025
Venus	3689-02-10 19:55 G	3068481.25	3068481.33	3068481.44	0.0089	0.0081
Mercury	3689-03-13 06:00 G	3068511.63	3068511.75	3068511.88	0.0089	0.0033
Mercury	3689-06-09 07:26 G	3068599.69	3068599.81	3068599.94	0.0089	0.0040
Mercury	3689-09-05 09:07 G	3068687.76	3068687.88	3068687.99	0.0089	0.0047
Venus	3689-09-24 09:07 G	3068706.75	3068706.88	3068707.06	0.0089	0.0064
Mercury	3689-12-02 10:33 G	3068775.83	3068775.94	3068776.05	0.0089	0.0054
Mercury	3690-02-28 12:00 G	3068863.90	3068864.00	3068864.10	0.0089	0.0061
Venus	3690-05-07 23:02 G	3068932.27	3068932.46	3068932.65	0.0089	0.0046
Mercury	3690-05-27 13:11 G	3068951.98	3068952.05	3068952.15	0.0089	0.0069
Mercury	3690-08-23 14:38 G	3069040.05	3069040.11	3069040.20	0.0090	0.0076
Mercury	3690-11-19 16:04 G	3069128.13	3069128.17	3069128.24	0.0090	0.0083
Venus	3690-12-19 12:14 G	3069157.80	3069158.01	3069158.22	0.0090	0.0029
Mercury	3691-02-15 17:45 G	3069216.24	3069216.24	3069216.26	0.0090	0.0089
Venus	3691-08-02 01:40 G	3069383.35	3069383.57	3069383.79	0.0090	0.0011
Venus	3692-03-14 14:52 G	3069608.91	3069609.12	3069609.35	0.0090	0.0007
Venus	3692-10-26 04:19 G	3069834.47	3069834.68	3069834.90	0.0090	0.0024
Venus	3693-06-08 17:45 G	3070060.04	3070060.24	3070060.43	0.0090	0.0041
Venus	3694-01-20 06:43 G	3070285.63	3070285.78	3070285.96	0.0090	0.0059
Venus	3694-09-02 20:09 G	3070511.24	3070511.34	3070511.47	0.0089	0.0076
Earth	3727-02-11 22:04 G	3082360.32	3082360.42	3082360.54	0.0089	0.0080
Moon	3727-02-12 01:26 G	3082360.46	3082360.56	3082360.70	0.0089	0.0078 *
Moon	3728-02-14 04:48 G	3082727.55	3082727.70	3082727.91	0.0089	0.0062
Earth	3728-02-14 08:24 G	3082727.67	3082727.85	3082728.05	0.0089	0.0059 *
Earth	3729-02-15 18:43 G	3083095.06	3083095.28	3083095.52	0.0089	0.0038
Moon	3729-02-15 21:35 G	3083095.17	3083095.40	3083095.65	0.0089	0.0035 *
Moon	3730-02-18 03:35 G	3083462.42	3083462.65	3083462.90	0.0089	0.0020
Earth	3730-02-18 05:02 G	3083462.47	3083462.71	3083462.96	0.0089	0.0017 *
Earth	3731-02-20 15:21 G	3083829.89	3083830.14	3083830.40	0.0089	0.0004
Moon	3731-02-20 15:50 G	3083829.90	3083830.16	3083830.43	0.0089	0.0006 *

Earth	3732-02-23 01:26 G	3084197.33	3084197.56	3084197.81	0.0089	0.0025
Moon	3732-02-23 02:24 G	3084197.36	3084197.60	3084197.84	0.0089	0.0022 *
Moon	3733-02-24 09:07 G	3084564.68	3084564.88	3084565.11	0.0089	0.0048
Earth	3733-02-24 11:31 G	3084564.78	3084564.98	3084565.21	0.0089	0.0046 *
Earth	3734-02-26 21:50 G	3084932.26	3084932.41	3084932.59	0.0089	0.0067
Moon	3734-02-27 00:57 G	3084932.37	3084932.54	3084932.71	0.0089	0.0064 *
Earth	3735-03-01 07:55 G	3085299.82	3085299.83	3085299.90	0.0089	0.0088
Mars	3753-12-12 13:40 G	3092160.73	3092161.07	3092161.42	0.0088	0.0002
Mercury	3767-10-22 13:11 G	3097223.02	3097223.05	3097223.11	0.0088	0.0085
Mercury	3768-01-18 16:19 G	3097311.10	3097311.18	3097311.28	0.0088	0.0076
Mercury	3768-04-15 19:26 G	3097399.20	3097399.31	3097399.43	0.0088	0.0067
Mercury	3768-07-12 22:04 G	3097487.30	3097487.42	3097487.57	0.0088	0.0059
Mercury	3768-10-09 00:57 G	3097575.41	3097575.54	3097575.71	0.0088	0.0050
Mercury	3769-01-05 04:04 G	3097663.52	3097663.67	3097663.84	0.0088	0.0041
Mercury	3769-04-03 07:11 G	3097751.64	3097751.80	3097751.98	0.0088	0.0032
Mercury	3769-06-30 10:19 G	3097839.76	3097839.93	3097840.11	0.0088	0.0023
Mercury	3769-09-26 13:11 G	3097927.88	3097928.05	3097928.24	0.0088	0.0014
Mercury	3769-12-23 16:19 G	3098016.00	3098016.18	3098016.37	0.0088	0.0005
Mercury	3770-03-21 19:26 G	3098104.13	3098104.31	3098104.49	0.0088	0.0004
Mercury	3770-06-17 22:33 G	3098192.25	3098192.44	3098192.62	0.0088	0.0013
Mercury	3770-09-14 01:11 G	3098280.39	3098280.55	3098280.74	0.0088	0.0023
Mercury	3770-12-11 04:19 G	3098368.52	3098368.68	3098368.86	0.0088	0.0032
Mercury	3771-03-09 07:26 G	3098456.66	3098456.81	3098456.98	0.0088	0.0041
Venus	3771-03-30 14:09 G	3098477.99	3098478.09	3098478.22	0.0088	0.0075
Mercury	3771-06-05 10:33 G	3098544.80	3098544.94	3098545.10	0.0088	0.0050
Mercury	3771-09-01 13:40 G	3098632.94	3098633.07	3098633.22	0.0088	0.0059
Venus	3771-11-11 02:38 G	3098703.47	3098703.61	3098703.79	0.0088	0.0059
Mercury	3771-11-28 17:02 G	3098721.10	3098721.21	3098721.33	0.0088	0.0068
Mercury	3772-02-24 19:40 G	3098809.26	3098809.32	3098809.43	0.0088	0.0078
Mercury	3772-05-22 23:02 G	3098897.45	3098897.46	3098897.50	0.0088	0.0087

Venus	3772-06-23 15:35 G	3098928.96	3098929.15	3098929.35	0.0088	0.0042
Venus	3773-02-04 04:04 G	3099154.47	3099154.67	3099154.89	0.0088	0.0026
Venus	3773-09-17 17:02 G	3099379.99	3099380.21	3099380.43	0.0088	0.0009
Venus	3774-05-01 05:31 G	3099605.52	3099605.73	3099605.96	0.0088	0.0008
Venus	3774-12-12 18:00 G	3099831.05	3099831.25	3099831.47	0.0088	0.0024
Venus	3775-07-26 06:57 G	3100056.59	3100056.79	3100056.98	0.0088	0.0040
Venus	3776-03-07 19:26 G	3100282.15	3100282.31	3100282.49	0.0088	0.0057
Venus	3776-10-19 08:09 G	3100507.73	3100507.84	3100507.97	0.0088	0.0073
Earth	3810-08-15 21:07 G	3112860.27	3112860.38	3112860.54	0.0088	0.0076
Moon	3810-08-15 22:48 G	3112860.32	3112860.45	3112860.62	0.0088	0.0073 *
Moon	3811-08-18 09:50 G	3113227.73	3113227.91	3113228.12	0.0088	0.0057
Earth	3811-08-18 10:04 G	3113227.74	3113227.92	3113228.15	0.0088	0.0055 *
Moon	3812-08-19 23:02 G	3113595.22	3113595.46	3113595.73	0.0088	0.0031
Earth	3812-08-19 23:16 G	3113595.25	3113595.47	3113595.74	0.0088	0.0034 *
Earth	3813-08-22 12:57 G	3113962.78	3113963.04	3113963.30	0.0088	0.0012
Moon	3813-08-22 14:52 G	3113962.88	3113963.12	3113963.38	0.0088	0.0014 *
Moon	3814-08-24 23:02 G	3114330.20	3114330.46	3114330.73	0.0088	0.0012
Earth	3814-08-25 01:55 G	3114330.32	3114330.58	3114330.85	0.0088	0.0010 *
Earth	3815-08-27 14:38 G	3114697.88	3114698.11	3114698.37	0.0088	0.0032
Moon	3815-08-27 18:14 G	3114698.02	3114698.26	3114698.51	0.0088	0.0030 *
Moon	3816-08-29 00:00 G	3115065.31	3115065.50	3115065.72	0.0089	0.0055
Earth	3816-08-29 03:35 G	3115065.47	3115065.65	3115065.89	0.0089	0.0053 *
Earth	3817-08-31 16:33 G	3115433.07	3115433.19	3115433.36	0.0089	0.0074
Moon	3817-08-31 19:55 G	3115433.20	3115433.33	3115433.51	0.0089	0.0073 *
Mars	3835-09-24 00:28 G	3122030.32	3122030.52	3122030.76	0.0089	0.0057
Mars	3837-08-17 15:21 G	3122723.88	3122724.14	3122724.42	0.0089	0.0028
Mercury	3850-01-31 04:19 G	3127273.64	3127273.68	3127273.75	0.0089	0.0082
Mercury	3850-04-29 06:00 G	3127361.68	3127361.75	3127361.84	0.0089	0.0075
Mercury	3850-07-26 07:40 G	3127449.74	3127449.82	3127449.92	0.0089	0.0067
Mercury	3850-10-22 09:21 G	3127537.79	3127537.89	3127538.00	0.0089	0.0060

Mercury	3851-01-18 10:48 G	3127625.85	3127625.95	3127626.07	0.0089	0.0053
Mercury	3851-04-16 12:28 G	3127713.90	3127714.02	3127714.15	0.0089	0.0045
Mercury	3851-07-13 14:09 G	3127801.96	3127802.09	3127802.22	0.0089	0.0038
Mercury	3851-10-09 15:35 G	3127890.02	3127890.15	3127890.29	0.0089	0.0031
Mercury	3852-01-05 17:16 G	3127978.09	3127978.22	3127978.36	0.0089	0.0023
Mercury	3852-04-02 18:43 G	3128066.15	3128066.28	3128066.42	0.0089	0.0016
Mercury	3852-06-29 20:24 G	3128154.21	3128154.35	3128154.49	0.0089	0.0009
Mercury	3852-09-25 21:50 G	3128242.28	3128242.41	3128242.55	0.0089	0.0003
Mercury	3852-12-22 23:31 G	3128330.34	3128330.48	3128330.62	0.0089	0.0006
Mercury	3853-03-21 00:57 G	3128418.41	3128418.54	3128418.68	0.0089	0.0013
Venus	3853-05-17 05:16 G	3128475.72	3128475.72	3128475.75	0.0089	0.0089
Mercury	3853-06-17 02:24 G	3128506.47	3128506.60	3128506.74	0.0089	0.0021
Mercury	3853-09-13 04:04 G	3128594.54	3128594.67	3128594.80	0.0089	0.0028
Mercury	3853-12-10 05:31 G	3128682.60	3128682.73	3128682.86	0.0089	0.0035
Venus	3853-12-28 18:43 G	3128701.16	3128701.28	3128701.42	0.0089	0.0072
Mercury	3854-03-08 06:57 G	3128770.67	3128770.79	3128770.92	0.0089	0.0042
Mercury	3854-06-04 08:24 G	3128858.74	3128858.85	3128858.97	0.0089	0.0049
Venus	3854-08-11 08:09 G	3128926.68	3128926.84	3128927.03	0.0089	0.0055
Mercury	3854-08-31 09:50 G	3128946.81	3128946.91	3128947.02	0.0089	0.0056
Mercury	3854-11-27 11:16 G	3129034.88	3129034.97	3129035.08	0.0089	0.0063
Mercury	3855-02-23 12:43 G	3129122.96	3129123.03	3129123.13	0.0089	0.0071
Venus	3855-03-24 21:50 G	3129152.21	3129152.41	3129152.61	0.0089	0.0037
Mercury	3855-05-22 14:09 G	3129211.04	3129211.09	3129211.17	0.0089	0.0078
Mercury	3855-08-18 15:35 G	3129299.12	3129299.15	3129299.21	0.0089	0.0085
Venus	3855-11-05 11:02 G	3129377.75	3129377.96	3129378.18	0.0089	0.0020
Venus	3856-06-18 00:28 G	3129603.30	3129603.52	3129603.74	0.0089	0.0002
Venus	3857-01-29 13:40 G	3129828.86	3129829.07	3129829.30	0.0089	0.0016
Venus	3857-09-12 03:21 G	3130054.44	3130054.64	3130054.85	0.0089	0.0033
Venus	3858-04-25 16:19 G	3130280.02	3130280.18	3130280.38	0.0089	0.0051
Venus	3858-12-07 05:45 G	3130505.61	3130505.74	3130505.89	0.0089	0.0068

Venus	3859-07-20 18:43 G	3130731.24	3130731.28	3130731.37	0.0089	0.0086
Moon	3891-02-12 04:19 G	3142260.64	3142260.68	3142260.75	0.0089	0.0086
Earth	3892-02-14 17:31 G	3142628.10	3142628.23	3142628.41	0.0089	0.0070
Moon	3892-02-14 19:40 G	3142628.20	3142628.32	3142628.49	0.0089	0.0074 *
Moon	3893-02-16 02:24 G	3142995.41	3142995.60	3142995.84	0.0089	0.0046
Earth	3893-02-16 04:04 G	3142995.47	3142995.67	3142995.89	0.0089	0.0049 *
Moon	3894-02-18 13:55 G	3143362.86	3143363.08	3143363.35	0.0089	0.0033
Earth	3894-02-18 14:38 G	3143362.87	3143363.11	3143363.36	0.0089	0.0028 *
Earth	3895-02-21 00:57 G	3143730.29	3143730.54	3143730.80	0.0089	0.0008
Moon	3895-02-21 02:24 G	3143730.36	3143730.60	3143730.85	0.0089	0.0004 *
Moon	3896-02-23 08:52 G	3144097.62	3144097.87	3144098.14	0.0089	0.0010
Earth	3896-02-23 11:16 G	3144097.72	3144097.97	3144098.22	0.0089	0.0013 *
Earth	3897-02-24 21:21 G	3144465.16	3144465.39	3144465.63	0.0089	0.0034
Moon	3897-02-25 00:28 G	3144465.31	3144465.52	3144465.76	0.0089	0.0039 *
Moon	3898-02-27 04:04 G	3144832.48	3144832.67	3144832.89	0.0089	0.0051
Earth	3898-02-27 07:26 G	3144832.63	3144832.81	3144833.03	0.0089	0.0055 *
Earth	3899-03-01 17:31 G	3145200.12	3145200.23	3145200.38	0.0089	0.0076
Moon	3899-03-01 21:21 G	3145200.29	3145200.39	3145200.51	0.0089	0.0079 *
Mars	3917-07-27 19:55 G	3151922.06	3151922.33	3151922.65	0.0088	0.0047
Mars	3919-06-24 05:16 G	3152618.48	3152618.72	3152619.02	0.0088	0.0055
Mercury	3932-07-20 12:14 G	3157393.95	3157394.01	3157394.08	0.0088	0.0081
Mercury	3932-10-16 14:52 G	3157482.04	3157482.12	3157482.24	0.0088	0.0073
Mercury	3933-01-12 17:45 G	3157570.14	3157570.24	3157570.38	0.0088	0.0064
Mercury	3933-04-10 20:52 G	3157658.24	3157658.37	3157658.52	0.0088	0.0055
Mercury	3933-07-08 00:00 G	3157746.35	3157746.50	3157746.66	0.0088	0.0046
Mercury	3933-10-04 03:07 G	3157834.46	3157834.63	3157834.79	0.0088	0.0037
Mercury	3933-12-31 06:00 G	3157922.58	3157922.75	3157922.92	0.0088	0.0028
Mercury	3934-03-29 08:52 G	3158010.70	3158010.87	3158011.05	0.0088	0.0020
Mercury	3934-06-25 12:00 G	3158098.82	3158099.00	3158099.18	0.0088	0.0010
Mercury	3934-09-21 15:07 G	3158186.94	3158187.13	3158187.31	0.0088	0.0002

Mercury	3934-12-18 18:00 G	3158275.07	3158275.25	3158275.43	0.0088	0.0008
Mercury	3935-03-16 20:52 G	3158363.20	3158363.37	3158363.56	0.0088	0.0017
Mercury	3935-06-13 00:00 G	3158451.33	3158451.50	3158451.68	0.0088	0.0026
Venus	3935-07-04 00:28 G	3158472.48	3158472.52	3158472.62	0.0088	0.0083
Mercury	3935-09-09 03:07 G	3158539.47	3158539.63	3158539.80	0.0088	0.0035
Mercury	3935-12-06 06:00 G	3158627.60	3158627.75	3158627.92	0.0088	0.0044
Venus	3936-02-14 13:26 G	3158697.93	3158698.06	3158698.22	0.0088	0.0066
Mercury	3936-03-03 09:07 G	3158715.75	3158715.88	3158716.04	0.0088	0.0053
Mercury	3936-05-30 12:28 G	3158803.89	3158804.02	3158804.15	0.0088	0.0062
Mercury	3936-08-26 15:07 G	3158892.05	3158892.13	3158892.26	0.0088	0.0072
Venus	3936-09-27 01:55 G	3158923.42	3158923.58	3158923.78	0.0088	0.0050
Mercury	3936-11-22 18:14 G	3158980.21	3158980.26	3158980.35	0.0088	0.0081
Venus	3937-05-10 14:52 G	3159148.92	3159149.12	3159149.33	0.0088	0.0033
Venus	3937-12-22 03:21 G	3159374.44	3159374.64	3159374.87	0.0088	0.0017
Venus	3938-08-04 16:19 G	3159599.96	3159600.18	3159600.40	0.0088	0.0000
Venus	3939-03-18 05:02 G	3159825.50	3159825.71	3159825.93	0.0088	0.0017
Venus	3939-10-29 17:45 G	3160051.04	3160051.24	3160051.44	0.0088	0.0033
Venus	3940-06-11 06:00 G	3160276.58	3160276.75	3160276.95	0.0088	0.0050
Venus	3941-01-22 18:57 G	3160502.15	3160502.29	3160502.43	0.0088	0.0066
Venus	3941-09-05 07:11 G	3160727.75	3160727.80	3160727.89	0.0088	0.0083
Earth	3974-08-16 05:02 G	3172760.67	3172760.71	3172760.79	0.0088	0.0086
Moon	3975-08-18 16:33 G	3173128.01	3173128.19	3173128.39	0.0088	0.0062
Earth	3975-08-18 18:14 G	3173128.09	3173128.26	3173128.45	0.0088	0.0065 *
Earth	3976-08-20 07:11 G	3173495.59	3173495.80	3173496.04	0.0088	0.0044
Moon	3976-08-20 09:07 G	3173495.69	3173495.88	3173496.12	0.0088	0.0048 *
Moon	3977-08-22 17:02 G	3173862.96	3173863.21	3173863.48	0.0088	0.0019
Earth	3977-08-22 20:24 G	3173863.10	3173863.35	3173863.61	0.0088	0.0023 *
Earth	3978-08-25 09:35 G	3174230.64	3174230.90	3174231.16	0.0088	0.0001
Moon	3978-08-25 12:57 G	3174230.79	3174231.04	3174231.31	0.0088	0.0005 *
Moon	3979-08-27 19:11 G	3174598.05	3174598.30	3174598.55	0.0088	0.0024

Earth	3979-08-27 22:48 G	3174598.20	3174598.45	3174598.71	0.0088	0.0020	*
Earth	3980-08-29 11:45 G	3174965.76	3174965.99	3174966.23	0.0089	0.0041	
Moon	3980-08-29 14:52 G	3174965.89	3174966.12	3174966.38	0.0089	0.0037	*
Moon	3981-08-31 22:33 G	3175333.28	3175333.44	3175333.62	0.0089	0.0066	
Earth	3981-09-01 00:43 G	3175333.36	3175333.53	3175333.73	0.0089	0.0062	*
Earth	3982-09-03 13:26 G	3175700.99	3175701.06	3175701.17	0.0089	0.0083	
Moon	3982-09-03 15:07 G	3175701.03	3175701.13	3175701.28	0.0089	0.0079	*

# 5TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 5th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	4001-04-03 04:19 G		3182487.40	3182487.68	3182487.97	0.0089	0.0012	
Mars	4003-02-25 18:00 G		3183181.12	3183181.25	3183181.44	0.0089	0.0074	
Mercury	4014-08-02 02:38 G		3187356.58	3187356.61	3187356.64	0.0089	0.0087	
Mercury	4014-10-29 03:50 G		3187444.61	3187444.66	3187444.74	0.0089	0.0080	
Mercury	4015-01-25 05:31 G		3187532.66	3187532.73	3187532.82	0.0089	0.0072	
Mercury	4015-04-23 07:11 G		3187620.71	3187620.80	3187620.90	0.0089	0.0065	
Mercury	4015-07-20 08:38 G		3187708.77	3187708.86	3187708.98	0.0089	0.0058	
Mercury	4015-10-16 10:33 G		3187796.83	3187796.94	3187797.06	0.0089	0.0050	
Mercury	4016-01-12 12:00 G		3187884.88	3187885.00	3187885.13	0.0089	0.0043	
Mercury	4016-04-09 13:40 G		3187972.94	3187973.07	3187973.20	0.0089	0.0035	
Mercury	4016-07-06 15:21 G		3188061.01	3188061.14	3188061.27	0.0089	0.0028	
Mercury	4016-10-02 16:48 G		3188149.07	3188149.20	3188149.34	0.0089	0.0021	



Mercury	4016-12-29 18:28 G	3188237.13	3188237.27	3188237.41	0.0089	0.0013
Mercury	4017-03-27 19:55 G	3188325.19	3188325.33	3188325.47	0.0089	0.0006
Mercury	4017-06-23 21:35 G	3188413.26	3188413.40	3188413.54	0.0089	0.0002
Mercury	4017-09-19 23:02 G	3188501.32	3188501.46	3188501.60	0.0089	0.0009
Mercury	4017-12-17 00:28 G	3188589.39	3188589.52	3188589.66	0.0089	0.0016
Mercury	4018-03-15 01:55 G	3188677.46	3188677.58	3188677.72	0.0089	0.0024
Venus	4018-04-02 04:48 G	3188695.62	3188695.70	3188695.81	0.0089	0.0080
Mercury	4018-06-11 03:35 G	3188765.52	3188765.65	3188765.78	0.0089	0.0030
Mercury	4018-09-07 05:02 G	3188853.59	3188853.71	3188853.84	0.0089	0.0037
Venus	4018-11-13 18:00 G	3188921.11	3188921.25	3188921.43	0.0089	0.0063
Mercury	4018-12-04 06:28 G	3188941.66	3188941.77	3188941.90	0.0089	0.0045
Mercury	4019-03-02 08:09 G	3189029.73	3189029.84	3189029.95	0.0089	0.0052
Mercury	4019-05-29 09:35 G	3189117.80	3189117.90	3189118.01	0.0089	0.0059
Venus	4019-06-27 07:40 G	3189146.64	3189146.82	3189147.02	0.0089	0.0045
Mercury	4019-08-25 11:02 G	3189205.87	3189205.96	3189206.06	0.0089	0.0066
Mercury	4019-11-21 12:28 G	3189293.95	3189294.02	3189294.10	0.0089	0.0073
Venus	4020-02-07 20:52 G	3189372.17	3189372.37	3189372.59	0.0089	0.0028
Mercury	4020-02-17 13:55 G	3189382.03	3189382.08	3189382.15	0.0089	0.0080
Mercury	4020-05-15 15:35 G	3189470.12	3189470.15	3189470.18	0.0089	0.0087
Venus	4020-09-20 10:33 G	3189597.73	3189597.94	3189598.17	0.0089	0.0010
Venus	4021-05-04 00:00 G	3189823.28	3189823.50	3189823.72	0.0089	0.0008
Venus	4021-12-15 13:11 G	3190048.84	3190049.05	3190049.27	0.0089	0.0026
Venus	4022-07-29 02:38 G	3190274.42	3190274.61	3190274.80	0.0089	0.0043
Venus	4023-03-11 15:35 G	3190500.00	3190500.15	3190500.33	0.0090	0.0061
Venus	4023-10-23 05:02 G	3190725.62	3190725.71	3190725.83	0.0090	0.0078
Moon	4056-02-15 03:07 G	3202528.55	3202528.63	3202528.76	0.0089	0.0080
Earth	4056-02-15 03:50 G	3202528.56	3202528.66	3202528.78	0.0089	0.0080 *
Moon	4057-02-16 13:55 G	3202895.90	3202896.08	3202896.28	0.0089	0.0061
Earth	4057-02-16 13:55 G	3202895.92	3202896.08	3202896.29	0.0089	0.0060 *
Earth	4058-02-19 00:43 G	3203263.31	3203263.53	3203263.76	0.0089	0.0039

Moon	4058-02-19 02:24 G	3203263.39	3203263.60	3203263.84	0.0089	0.0038	*
Moon	4059-02-21 08:09 G	3203630.59	3203630.84	3203631.09	0.0089	0.0019	
Earth	4059-02-21 10:48 G	3203630.72	3203630.95	3203631.21	0.0089	0.0019	*
Earth	4060-02-23 21:21 G	3203998.14	3203998.39	3203998.64	0.0089	0.0002	
Moon	4060-02-24 00:28 G	3203998.27	3203998.52	3203998.77	0.0089	0.0004	*
Moon	4061-02-25 03:50 G	3204365.42	3204365.66	3204365.91	0.0089	0.0021	
Earth	4061-02-25 07:26 G	3204365.57	3204365.81	3204366.07	0.0089	0.0023	*
Earth	4062-02-27 17:45 G	3204733.02	3204733.24	3204733.47	0.0089	0.0043	
Moon	4062-02-27 20:38 G	3204733.15	3204733.36	3204733.60	0.0089	0.0045	*
Moon	4063-03-02 01:11 G	3205100.39	3205100.55	3205100.74	0.0089	0.0062	
Earth	4063-03-02 03:50 G	3205100.50	3205100.66	3205100.85	0.0089	0.0064	*
Earth	4064-03-03 14:09 G	3205468.02	3205468.09	3205468.17	0.0089	0.0084	
Moon	4064-03-03 15:35 G	3205468.10	3205468.15	3205468.22	0.0089	0.0086	*
Mars	4083-02-04 15:21 G	3212379.79	3212380.14	3212380.48	0.0088	0.0008	
Mercury	4097-01-18 07:40 G	3217476.81	3217476.82	3217476.87	0.0088	0.0087	
Mercury	4097-04-16 10:48 G	3217564.88	3217564.95	3217565.04	0.0088	0.0078	
Mercury	4097-07-13 13:40 G	3217652.97	3217653.07	3217653.19	0.0088	0.0069	
Mercury	4097-10-09 16:48 G	3217741.08	3217741.20	3217741.34	0.0088	0.0060	
Mercury	4098-01-05 19:55 G	3217829.18	3217829.33	3217829.47	0.0088	0.0051	
Mercury	4098-04-03 22:33 G	3217917.29	3217917.44	3217917.61	0.0088	0.0043	
Mercury	4098-07-01 01:40 G	3218005.41	3218005.57	3218005.74	0.0088	0.0034	
Mercury	4098-09-27 04:33 G	3218093.52	3218093.69	3218093.87	0.0088	0.0025	
Mercury	4098-12-24 07:40 G	3218181.64	3218181.82	3218182.00	0.0088	0.0016	
Mercury	4099-03-22 10:48 G	3218269.77	3218269.95	3218270.13	0.0088	0.0007	
Mercury	4099-06-18 13:40 G	3218357.89	3218358.07	3218358.26	0.0088	0.0003	
Mercury	4099-09-14 16:48 G	3218446.02	3218446.20	3218446.38	0.0088	0.0011	
Mercury	4099-12-11 19:40 G	3218534.15	3218534.32	3218534.50	0.0088	0.0020	
Mercury	4100-03-09 22:48 G	3218622.28	3218622.45	3218622.63	0.0088	0.0029	
Venus	4100-05-19 00:28 G	3218692.41	3218692.52	3218692.65	0.0088	0.0073	
Mercury	4100-06-06 01:55 G	3218710.42	3218710.58	3218710.75	0.0088	0.0038	

Mercury	4100-09-02 04:33 G	3218798.55	3218798.69	3218798.86	0.0088	0.0048
Mercury	4100-11-29 07:40 G	3218886.70	3218886.82	3218886.98	0.0088	0.0057
Venus	4100-12-30 12:57 G	3218917.89	3218918.04	3218918.22	0.0088	0.0057
Mercury	4101-02-25 10:48 G	3218974.85	3218974.95	3218975.09	0.0088	0.0066
Mercury	4101-05-24 13:55 G	3219063.00	3219063.08	3219063.19	0.0088	0.0075
Venus	4101-08-13 01:40 G	3219143.39	3219143.57	3219143.78	0.0088	0.0040
Mercury	4101-08-20 17:16 G	3219151.18	3219151.22	3219151.28	0.0088	0.0084
Venus	4102-03-26 14:24 G	3219368.90	3219369.10	3219369.33	0.0088	0.0024
Venus	4102-11-07 03:21 G	3219594.42	3219594.64	3219594.86	0.0088	0.0007
Venus	4103-06-20 15:50 G	3219819.95	3219820.16	3219820.38	0.0088	0.0010
Venus	4104-02-01 04:19 G	3220045.48	3220045.68	3220045.90	0.0088	0.0027
Venus	4104-09-13 17:02 G	3220271.03	3220271.21	3220271.41	0.0088	0.0043
Venus	4105-04-27 05:31 G	3220496.59	3220496.73	3220496.91	0.0088	0.0060
Venus	4105-12-08 18:28 G	3220722.17	3220722.27	3220722.39	0.0088	0.0076
Earth	4139-08-19 02:24 G	3233028.48	3233028.60	3233028.76	0.0088	0.0075
Moon	4139-08-19 05:16 G	3233028.59	3233028.72	3233028.90	0.0088	0.0071 *
Moon	4140-08-20 11:45 G	3233395.82	3233395.99	3233396.22	0.0088	0.0058
Earth	4140-08-20 15:35 G	3233395.95	3233396.15	3233396.37	0.0088	0.0054 *
Earth	4141-08-23 04:19 G	3233763.45	3233763.68	3233763.94	0.0088	0.0033
Moon	4141-08-23 08:09 G	3233763.61	3233763.84	3233764.10	0.0088	0.0030 *
Moon	4142-08-25 14:24 G	3234130.85	3234131.10	3234131.36	0.0088	0.0016
Earth	4142-08-25 17:31 G	3234130.98	3234131.23	3234131.50	0.0088	0.0013 *
Earth	4143-08-28 06:57 G	3234498.53	3234498.79	3234499.05	0.0088	0.0009
Moon	4143-08-28 09:35 G	3234498.65	3234498.90	3234499.18	0.0088	0.0012 *
Moon	4144-08-29 17:45 G	3234866.01	3234866.24	3234866.50	0.0088	0.0028
Earth	4144-08-29 20:09 G	3234866.10	3234866.34	3234866.59	0.0088	0.0030 *
Earth	4145-09-01 08:52 G	3235233.67	3235233.87	3235234.10	0.0088	0.0051
Moon	4145-09-01 09:07 G	3235233.69	3235233.88	3235234.12	0.0088	0.0054 *
Earth	4146-09-03 22:04 G	3235601.28	3235601.42	3235601.59	0.0089	0.0072
Moon	4146-09-03 22:19 G	3235601.29	3235601.43	3235601.60	0.0089	0.0070 *

Mars	4164-11-17 19:26 G	3242251.10	3242251.31	3242251.57	0.0089	0.0051
Mars	4166-10-12 09:21 G	3242944.63	3242944.89	3242945.16	0.0089	0.0034
Mercury	4179-04-30 02:09 G	3247527.55	3247527.59	3247527.64	0.0089	0.0084
Mercury	4179-07-27 03:35 G	3247615.59	3247615.65	3247615.74	0.0089	0.0077
Mercury	4179-10-23 05:31 G	3247703.64	3247703.73	3247703.82	0.0089	0.0069
Mercury	4180-01-19 06:57 G	3247791.70	3247791.79	3247791.90	0.0089	0.0062
Mercury	4180-04-16 08:24 G	3247879.75	3247879.85	3247879.97	0.0089	0.0055
Mercury	4180-07-13 10:19 G	3247967.81	3247967.93	3247968.05	0.0089	0.0047
Mercury	4180-10-09 11:45 G	3248055.87	3248055.99	3248056.12	0.0089	0.0039
Mercury	4181-01-05 13:11 G	3248143.93	3248144.05	3248144.19	0.0089	0.0033
Mercury	4181-04-03 15:07 G	3248231.99	3248232.13	3248232.26	0.0089	0.0025
Mercury	4181-06-30 16:33 G	3248320.06	3248320.19	3248320.33	0.0089	0.0017
Mercury	4181-09-26 18:14 G	3248408.12	3248408.26	3248408.40	0.0089	0.0010
Mercury	4181-12-23 19:40 G	3248496.18	3248496.32	3248496.46	0.0089	0.0003
Mercury	4182-03-21 21:21 G	3248584.25	3248584.39	3248584.53	0.0089	0.0005
Mercury	4182-06-17 22:48 G	3248672.31	3248672.45	3248672.59	0.0089	0.0012
Venus	4182-07-05 14:52 G	3248690.10	3248690.12	3248690.19	0.0089	0.0088
Mercury	4182-09-14 00:14 G	3248760.38	3248760.51	3248760.65	0.0089	0.0019
Mercury	4182-12-11 01:40 G	3248848.45	3248848.57	3248848.71	0.0089	0.0027
Venus	4183-02-16 04:48 G	3248915.57	3248915.70	3248915.84	0.0089	0.0070
Mercury	4183-03-09 03:21 G	3248936.51	3248936.64	3248936.77	0.0089	0.0033
Mercury	4183-06-05 04:48 G	3249024.58	3249024.70	3249024.83	0.0089	0.0041
Mercury	4183-09-01 06:14 G	3249112.65	3249112.76	3249112.88	0.0089	0.0048
Venus	4183-09-29 18:00 G	3249141.09	3249141.25	3249141.45	0.0089	0.0053
Mercury	4183-11-28 07:55 G	3249200.72	3249200.83	3249200.94	0.0089	0.0055
Mercury	4184-02-24 09:21 G	3249288.80	3249288.89	3249288.99	0.0089	0.0062
Venus	4184-05-12 07:40 G	3249366.63	3249366.82	3249367.03	0.0089	0.0035
Mercury	4184-05-22 11:02 G	3249376.87	3249376.96	3249377.04	0.0089	0.0069
Mercury	4184-08-18 12:28 G	3249464.95	3249465.02	3249465.09	0.0089	0.0076
Mercury	4184-11-14 13:55 G	3249553.03	3249553.08	3249553.13	0.0089	0.0083

Venus	4184-12-23 21:21 G	3249592.17	3249592.39	3249592.60	0.0089	0.0017
Venus	4185-08-06 10:48 G	3249817.73	3249817.95	3249818.17	0.0089	0.0002
Venus	4186-03-20 00:00 G	3250043.29	3250043.50	3250043.72	0.0089	0.0018
Venus	4186-10-31 13:26 G	3250268.86	3250269.06	3250269.26	0.0089	0.0036
Venus	4187-06-14 02:24 G	3250494.44	3250494.60	3250494.79	0.0089	0.0054
Venus	4188-01-25 16:04 G	3250720.04	3250720.17	3250720.30	0.0089	0.0071
Venus	4188-09-07 05:02 G	3250945.70	3250945.71	3250945.76	0.0090	0.0089
Moon	4220-02-16 13:26 G	3262428.99	3262429.06	3262429.13	0.0089	0.0085
Earth	4221-02-18 00:57 G	3262796.41	3262796.54	3262796.72	0.0089	0.0070
Moon	4221-02-18 03:07 G	3262796.51	3262796.63	3262796.78	0.0089	0.0074 *
Moon	4222-02-20 08:24 G	3263163.65	3263163.85	3263164.09	0.0089	0.0045
Earth	4222-02-20 11:45 G	3263163.79	3263163.99	3263164.21	0.0089	0.0049 *
Earth	4223-02-22 22:04 G	3263531.19	3263531.42	3263531.67	0.0089	0.0029
Moon	4223-02-23 01:26 G	3263531.35	3263531.56	3263531.82	0.0089	0.0034 *
Moon	4224-02-25 05:16 G	3263898.47	3263898.72	3263898.98	0.0089	0.0004
Earth	4224-02-25 08:38 G	3263898.61	3263898.86	3263899.12	0.0089	0.0009 *
Earth	4225-02-26 18:57 G	3264266.04	3264266.29	3264266.54	0.0089	0.0012
Moon	4225-02-26 22:04 G	3264266.17	3264266.42	3264266.69	0.0089	0.0008 *
Moon	4226-03-01 03:07 G	3264633.42	3264633.63	3264633.87	0.0089	0.0037
Earth	4226-03-01 05:16 G	3264633.49	3264633.72	3264633.96	0.0089	0.0032 *
Earth	4227-03-03 15:07 G	3265000.94	3265001.13	3265001.35	0.0089	0.0053
Moon	4227-03-03 16:04 G	3265000.97	3265001.17	3265001.41	0.0089	0.0049 *
Earth	4228-03-05 01:11 G	3265368.43	3265368.55	3265368.71	0.0089	0.0073
Moon	4228-03-05 00:57 G	3265368.46	3265368.54	3265368.69	0.0089	0.0078 *
Moon	4229-03-07 09:35 G	3265735.90	3265735.90	3265735.94	0.0089	0.0089
Jupiter	4246-06-12 01:26 G	3272041.06	3272041.56	3272042.14	0.0088	0.0029
Mars	4246-09-20 00:28 G	3272141.23	3272141.52	3272141.85	0.0088	0.0040
Mars	4248-08-16 10:48 G	3272837.74	3272837.95	3272838.23	0.0088	0.0063
Mercury	4261-10-17 07:11 G	3277647.74	3277647.80	3277647.86	0.0088	0.0082
Mercury	4262-01-13 09:35 G	3277735.83	3277735.90	3277736.02	0.0088	0.0074

Mercury	4262-04-11 12:43 G	3277823.92	3277824.03	3277824.16	0.0088	0.0065
Mercury	4262-07-08 15:50 G	3277912.03	3277912.16	3277912.30	0.0088	0.0056
Mercury	4262-10-04 18:43 G	3278000.14	3278000.28	3278000.44	0.0088	0.0047
Mercury	4262-12-31 21:50 G	3278088.25	3278088.41	3278088.57	0.0088	0.0038
Mercury	4263-03-30 00:28 G	3278176.36	3278176.52	3278176.71	0.0088	0.0030
Mercury	4263-06-26 03:35 G	3278264.48	3278264.65	3278264.83	0.0088	0.0021
Mercury	4263-09-22 06:43 G	3278352.60	3278352.78	3278352.96	0.0088	0.0012
Mercury	4263-12-19 09:50 G	3278440.73	3278440.91	3278441.09	0.0088	0.0003
Mercury	4264-03-16 12:43 G	3278528.85	3278529.03	3278529.22	0.0088	0.0007
Mercury	4264-06-12 15:50 G	3278616.98	3278617.16	3278617.34	0.0088	0.0015
Venus	4264-08-21 12:00 G	3278686.93	3278687.00	3278687.10	0.0088	0.0080
Mercury	4264-09-08 18:28 G	3278705.11	3278705.27	3278705.46	0.0088	0.0025
Mercury	4264-12-05 21:35 G	3278793.24	3278793.40	3278793.58	0.0088	0.0034
Mercury	4265-03-04 00:43 G	3278881.38	3278881.53	3278881.70	0.0088	0.0043
Venus	4265-04-04 00:28 G	3278912.39	3278912.52	3278912.70	0.0088	0.0064
Mercury	4265-05-31 03:35 G	3278969.52	3278969.65	3278969.81	0.0088	0.0052
Mercury	4265-08-27 06:43 G	3279057.66	3279057.78	3279057.93	0.0088	0.0061
Venus	4265-11-15 13:11 G	3279137.88	3279138.05	3279138.25	0.0088	0.0047
Mercury	4265-11-23 09:50 G	3279145.81	3279145.91	3279146.03	0.0088	0.0070
Mercury	4266-02-19 12:57 G	3279233.98	3279234.04	3279234.13	0.0088	0.0079
Venus	4266-06-29 02:09 G	3279363.38	3279363.59	3279363.80	0.0088	0.0030
Venus	4267-02-09 14:38 G	3279588.90	3279589.11	3279589.33	0.0088	0.0014
Venus	4267-09-23 03:21 G	3279814.42	3279814.64	3279814.86	0.0088	0.0003
Venus	4268-05-05 15:50 G	3280039.95	3280040.16	3280040.38	0.0088	0.0020
Venus	4268-12-17 04:19 G	3280265.49	3280265.68	3280265.89	0.0088	0.0037
Venus	4269-07-30 17:02 G	3280491.04	3280491.21	3280491.39	0.0088	0.0053
Venus	4270-03-13 05:31 G	3280716.62	3280716.73	3280716.88	0.0088	0.0070
Venus	4270-10-24 18:00 G	3280942.24	3280942.25	3280942.31	0.0088	0.0087
Moon	4303-08-20 07:40 G	3292928.79	3292928.82	3292928.90	0.0088	0.0087
Earth	4303-08-20 11:16 G	3292928.92	3292928.97	3292929.08	0.0088	0.0085

Earth	4304-08-22 00:28 G	3293296.35	3293296.52	3293296.71	0.0088	0.0064
Moon	4304-08-22 04:19 G	3293296.49	3293296.68	3293296.87	0.0088	0.0061 *
Moon	4305-08-24 10:04 G	3293663.71	3293663.92	3293664.15	0.0088	0.0047
Earth	4305-08-24 13:11 G	3293663.84	3293664.05	3293664.30	0.0088	0.0044 *
Earth	4306-08-27 02:24 G	3294031.36	3294031.60	3294031.86	0.0088	0.0023
Moon	4306-08-27 04:48 G	3294031.44	3294031.70	3294031.97	0.0088	0.0019 *
Moon	4307-08-29 14:38 G	3294398.85	3294399.11	3294399.36	0.0088	0.0005
Earth	4307-08-29 15:35 G	3294398.89	3294399.15	3294399.42	0.0088	0.0002 *
Earth	4308-08-31 04:33 G	3294766.44	3294766.69	3294766.95	0.0088	0.0019
Moon	4308-08-31 04:48 G	3294766.45	3294766.70	3294766.97	0.0088	0.0023 *
Earth	4309-09-02 17:31 G	3295134.00	3295134.23	3295134.47	0.0088	0.0040
Moon	4309-09-02 18:43 G	3295134.06	3295134.28	3295134.52	0.0088	0.0037 *
Moon	4310-09-05 04:04 G	3295501.51	3295501.67	3295501.88	0.0089	0.0064
Earth	4310-09-05 06:28 G	3295501.60	3295501.77	3295501.98	0.0089	0.0061 *
Earth	4311-09-07 19:55 G	3295869.23	3295869.33	3295869.44	0.0089	0.0081
Moon	4311-09-07 22:04 G	3295869.33	3295869.42	3295869.58	0.0089	0.0078 *
Mars	4328-07-05 12:28 G	3302015.02	3302015.02	3302015.05	0.0089	0.0089
Mars	4330-05-30 02:24 G	3302708.32	3302708.60	3302708.89	0.0089	0.0005
Mars	4332-04-22 15:21 G	3303402.05	3303402.14	3303402.28	0.0089	0.0082
Mercury	4343-10-31 00:14 G	3307610.50	3307610.51	3307610.55	0.0089	0.0088
Mercury	4344-01-27 01:55 G	3307698.53	3307698.58	3307698.65	0.0089	0.0080
Mercury	4344-04-24 03:35 G	3307786.58	3307786.65	3307786.74	0.0089	0.0073
Mercury	4344-07-21 05:02 G	3307874.63	3307874.71	3307874.82	0.0089	0.0066
Mercury	4344-10-17 06:43 G	3307962.68	3307962.78	3307962.90	0.0089	0.0058
Mercury	4345-01-13 08:24 G	3308050.74	3308050.85	3308050.97	0.0089	0.0051
Mercury	4345-04-11 10:04 G	3308138.80	3308138.92	3308139.04	0.0089	0.0043
Mercury	4345-07-08 11:31 G	3308226.86	3308226.98	3308227.12	0.0089	0.0036
Mercury	4345-10-04 13:11 G	3308314.92	3308315.05	3308315.19	0.0089	0.0029
Mercury	4345-12-31 14:52 G	3308402.98	3308403.12	3308403.26	0.0089	0.0021
Mercury	4346-03-29 16:19 G	3308491.05	3308491.18	3308491.32	0.0089	0.0014

Mercury	4346-06-25 18:00 G	3308579.11	3308579.25	3308579.39	0.0089	0.0007
Mercury	4346-09-21 19:26 G	3308667.17	3308667.31	3308667.45	0.0089	0.0002
Mercury	4346-12-18 21:07 G	3308755.24	3308755.38	3308755.52	0.0089	0.0008
Mercury	4347-03-16 22:33 G	3308843.31	3308843.44	3308843.58	0.0089	0.0015
Venus	4347-05-22 15:07 G	3308910.05	3308910.13	3308910.27	0.0089	0.0078
Mercury	4347-06-13 00:00 G	3308931.37	3308931.50	3308931.64	0.0089	0.0023
Mercury	4347-09-09 01:40 G	3309019.44	3309019.57	3309019.70	0.0089	0.0029
Mercury	4347-12-06 03:07 G	3309107.51	3309107.63	3309107.76	0.0089	0.0037
Venus	4348-01-03 04:48 G	3309135.55	3309135.70	3309135.88	0.0089	0.0060
Mercury	4348-03-03 04:33 G	3309195.58	3309195.69	3309195.82	0.0089	0.0044
Mercury	4348-05-30 06:14 G	3309283.65	3309283.76	3309283.87	0.0089	0.0051
Venus	4348-08-15 18:28 G	3309361.08	3309361.27	3309361.47	0.0089	0.0042
Mercury	4348-08-26 07:26 G	3309371.72	3309371.81	3309371.93	0.0089	0.0058
Mercury	4348-11-22 08:52 G	3309459.79	3309459.87	3309459.98	0.0089	0.0066
Mercury	4349-02-18 10:33 G	3309547.87	3309547.94	3309548.03	0.0089	0.0072
Venus	4349-03-29 07:55 G	3309586.62	3309586.83	3309587.05	0.0089	0.0024
Mercury	4349-05-17 12:00 G	3309635.95	3309636.00	3309636.07	0.0089	0.0079
Mercury	4349-08-13 13:26 G	3309724.04	3309724.06	3309724.11	0.0089	0.0087
Venus	4349-11-09 21:21 G	3309812.18	3309812.39	3309812.62	0.0089	0.0007
Venus	4350-06-23 10:48 G	3310037.73	3310037.95	3310038.17	0.0089	0.0011
Venus	4351-02-04 00:14 G	3310263.30	3310263.51	3310263.72	0.0089	0.0029
Venus	4351-09-17 13:26 G	3310488.89	3310489.06	3310489.26	0.0089	0.0047
Venus	4352-04-30 02:38 G	3310714.48	3310714.61	3310714.78	0.0089	0.0065
Venus	4352-12-11 16:04 G	3310940.10	3310940.17	3310940.27	0.0089	0.0082
Moon	4385-02-18 09:07 G	3322696.77	3322696.88	3322697.00	0.0089	0.0079
Earth	4385-02-18 12:28 G	3322696.91	3322697.02	3322697.14	0.0089	0.0079 *
Earth	4386-02-20 22:48 G	3323064.27	3323064.45	3323064.65	0.0089	0.0059
Moon	4386-02-21 01:55 G	3323064.42	3323064.58	3323064.79	0.0089	0.0061 *
Moon	4387-02-23 05:45 G	3323431.53	3323431.74	3323431.98	0.0089	0.0039
Earth	4387-02-23 09:21 G	3323431.67	3323431.89	3323432.13	0.0089	0.0039 *



Earth	4388-02-25 19:40 G	3323799.09	3323799.32	3323799.58	0.0089	0.0019
Moon	4388-02-25 22:19 G	3323799.19	3323799.43	3323799.70	0.0089	0.0020 *
Moon	4389-02-27 04:33 G	3324166.44	3324166.69	3324166.94	0.0089	0.0003
Earth	4389-02-27 06:28 G	3324166.52	3324166.77	3324167.03	0.0089	0.0002 *
Earth	4390-03-01 16:33 G	3324533.95	3324534.19	3324534.45	0.0089	0.0022
Moon	4390-03-01 17:02 G	3324533.96	3324534.21	3324534.47	0.0089	0.0021 *
Earth	4391-03-04 02:52 G	3324901.41	3324901.62	3324901.85	0.0089	0.0042
Moon	4391-03-04 03:35 G	3324901.45	3324901.65	3324901.88	0.0089	0.0043 *
Moon	4392-03-05 11:16 G	3325268.80	3325268.97	3325269.18	0.0089	0.0061
Earth	4392-03-05 13:11 G	3325268.88	3325269.05	3325269.24	0.0089	0.0062 *
Earth	4393-03-07 23:16 G	3325636.39	3325636.47	3325636.58	0.0089	0.0082
Moon	4393-03-08 02:09 G	3325636.52	3325636.59	3325636.69	0.0089	0.0083 *
Mars	4410-05-04 12:00 G	3331902.93	3331903.00	3331903.09	0.0088	0.0086
Mars	4412-03-30 22:33 G	3332599.11	3332599.44	3332599.80	0.0088	0.0016
Jupiter	4412-08-13 07:40 G	3332734.65	3332734.82	3332735.13	0.0088	0.0081
Mercury	4426-04-18 02:52 G	3337730.62	3337730.62	3337730.67	0.0088	0.0087
Mercury	4426-07-15 06:00 G	3337818.68	3337818.75	3337818.84	0.0088	0.0078
Mercury	4426-10-11 09:07 G	3337906.78	3337906.88	3337906.99	0.0088	0.0069
Mercury	4427-01-07 11:45 G	3337994.88	3337994.99	3337995.13	0.0088	0.0061
Mercury	4427-04-05 14:38 G	3338082.98	3338083.11	3338083.27	0.0088	0.0052
Mercury	4427-07-02 17:45 G	3338171.09	3338171.24	3338171.41	0.0088	0.0043
Mercury	4427-09-28 20:52 G	3338259.21	3338259.37	3338259.54	0.0088	0.0034
Mercury	4427-12-25 23:45 G	3338347.32	3338347.49	3338347.67	0.0088	0.0025
Mercury	4428-03-23 02:52 G	3338435.44	3338435.62	3338435.80	0.0088	0.0016
Mercury	4428-06-19 05:45 G	3338523.56	3338523.74	3338523.93	0.0088	0.0008
Mercury	4428-09-15 08:52 G	3338611.69	3338611.87	3338612.05	0.0088	0.0002
Venus	4428-11-23 23:31 G	3338681.47	3338681.48	3338681.54	0.0088	0.0087
Mercury	4428-12-12 11:45 G	3338699.81	3338699.99	3338700.18	0.0088	0.0011
Mercury	4429-03-10 14:38 G	3338787.94	3338788.11	3338788.30	0.0088	0.0020
Mercury	4429-06-06 17:45 G	3338876.08	3338876.24	3338876.42	0.0088	0.0029

Venus	4429-07-07 12:28 G	3338906.90	3338907.02	3338907.16	0.0088	0.0070
Mercury	4429-09-02 20:52 G	3338964.21	3338964.37	3338964.54	0.0088	0.0038
Mercury	4429-11-29 23:45 G	3339052.35	3339052.49	3339052.66	0.0088	0.0047
Venus	4430-02-18 01:26 G	3339132.38	3339132.56	3339132.73	0.0088	0.0053
Mercury	4430-02-26 02:52 G	3339140.49	3339140.62	3339140.77	0.0088	0.0056
Mercury	4430-05-25 06:00 G	3339228.64	3339228.75	3339228.88	0.0088	0.0065
Mercury	4430-08-21 08:52 G	3339316.79	3339316.87	3339316.98	0.0088	0.0075
Venus	4430-10-01 13:40 G	3339357.88	3339358.07	3339358.28	0.0088	0.0037
Mercury	4430-11-17 12:00 G	3339404.96	3339405.00	3339405.07	0.0088	0.0084
Venus	4431-05-15 02:24 G	3339583.39	3339583.60	3339583.82	0.0088	0.0020
Venus	4431-12-26 15:07 G	3339808.91	3339809.13	3339809.35	0.0088	0.0003
Venus	4432-08-08 03:35 G	3340034.44	3340034.65	3340034.88	0.0088	0.0014
Venus	4433-03-21 16:33 G	3340259.98	3340260.19	3340260.40	0.0088	0.0030
Venus	4433-11-02 04:48 G	3340485.53	3340485.70	3340485.90	0.0088	0.0047
Venus	4434-06-15 17:16 G	3340711.09	3340711.22	3340711.39	0.0088	0.0064
Venus	4435-01-27 05:45 G	3340936.68	3340936.74	3340936.85	0.0088	0.0081
Moon	4468-08-21 07:11 G	3353196.67	3353196.80	3353196.99	0.0088	0.0070
Earth	4468-08-21 10:19 G	3353196.79	3353196.93	3353197.08	0.0088	0.0073 *
Earth	4469-08-23 23:02 G	3353564.26	3353564.46	3353564.68	0.0088	0.0053
Moon	4469-08-24 01:11 G	3353564.35	3353564.55	3353564.77	0.0088	0.0056 *
Moon	4470-08-26 11:31 G	3353931.75	3353931.98	3353932.23	0.0088	0.0029
Earth	4470-08-26 12:00 G	3353931.77	3353932.00	3353932.26	0.0088	0.0033 *
Moon	4471-08-29 00:14 G	3354299.25	3354299.51	3354299.78	0.0088	0.0015
Earth	4471-08-29 01:11 G	3354299.29	3354299.55	3354299.81	0.0088	0.0012 *
Earth	4472-08-30 14:09 G	3354666.83	3354667.09	3354667.35	0.0088	0.0009
Moon	4472-08-30 15:35 G	3354666.90	3354667.15	3354667.40	0.0088	0.0012 *
Moon	4473-09-02 00:14 G	3355034.26	3355034.51	3355034.77	0.0088	0.0026
Earth	4473-09-02 02:52 G	3355034.39	3355034.62	3355034.88	0.0088	0.0030 *
Earth	4474-09-04 16:04 G	3355401.97	3355402.17	3355402.40	0.0089	0.0050
Moon	4474-09-04 19:11 G	3355402.12	3355402.30	3355402.53	0.0089	0.0054 *

Moon	4475-09-07 01:26 G	3355769.41	3355769.56	3355769.75	0.0089	0.0068
Earth	4475-09-07 04:48 G	3355769.58	3355769.70	3355769.89	0.0089	0.0071 *
Mars	4494-01-12 18:14 G	3362472.02	3362472.26	3362472.53	0.0089	0.0043
Mars	4495-12-07 07:55 G	3363165.60	3363165.83	3363166.11	0.0089	0.0044
Mercury	4508-07-28 00:14 G	3367781.47	3367781.51	3367781.57	0.0089	0.0084
Mercury	4508-10-24 01:55 G	3367869.52	3367869.58	3367869.66	0.0089	0.0076
Mercury	4509-01-20 03:35 G	3367957.57	3367957.65	3367957.74	0.0089	0.0069
Mercury	4509-04-18 05:02 G	3368045.62	3368045.71	3368045.82	0.0089	0.0062
Mercury	4509-07-15 06:43 G	3368133.68	3368133.78	3368133.90	0.0089	0.0054
Mercury	4509-10-11 08:24 G	3368221.74	3368221.85	3368221.97	0.0089	0.0047
Mercury	4510-01-07 10:04 G	3368309.80	3368309.92	3368310.05	0.0089	0.0039
Mercury	4510-04-05 11:31 G	3368397.86	3368397.98	3368398.12	0.0089	0.0032
Mercury	4510-07-02 13:11 G	3368485.92	3368486.05	3368486.19	0.0089	0.0025
Mercury	4510-09-28 14:52 G	3368573.98	3368574.12	3368574.26	0.0089	0.0017
Mercury	4510-12-25 16:19 G	3368662.04	3368662.18	3368662.32	0.0089	0.0010
Mercury	4511-03-23 18:00 G	3368750.11	3368750.25	3368750.39	0.0089	0.0003
Mercury	4511-06-19 19:26 G	3368838.17	3368838.31	3368838.45	0.0089	0.0005
Venus	4511-08-25 02:24 G	3368904.56	3368904.60	3368904.70	0.0089	0.0085
Mercury	4511-09-15 21:07 G	3368926.24	3368926.38	3368926.52	0.0089	0.0012
Mercury	4511-12-12 22:33 G	3369014.31	3369014.44	3369014.58	0.0089	0.0019
Mercury	4512-03-10 00:00 G	3369102.37	3369102.50	3369102.64	0.0089	0.0026
Venus	4512-04-06 16:04 G	3369130.04	3369130.17	3369130.34	0.0089	0.0067
Mercury	4512-06-06 01:26 G	3369190.44	3369190.56	3369190.70	0.0089	0.0034
Mercury	4512-09-02 03:07 G	3369278.51	3369278.63	3369278.76	0.0089	0.0040
Venus	4512-11-18 05:45 G	3369355.56	3369355.74	3369355.93	0.0089	0.0049
Mercury	4512-11-29 04:33 G	3369366.58	3369366.69	3369366.81	0.0089	0.0048
Mercury	4513-02-25 06:00 G	3369454.65	3369454.75	3369454.87	0.0089	0.0055
Mercury	4513-05-24 07:40 G	3369542.72	3369542.82	3369542.92	0.0089	0.0062
Venus	4513-07-01 18:57 G	3369581.10	3369581.29	3369581.51	0.0089	0.0031
Mercury	4513-08-20 09:07 G	3369630.80	3369630.88	3369630.97	0.0089	0.0069

Mercury	4513-11-16 10:33 G	3369718.88	3369718.94	3369719.02	0.0089	0.0076
Venus	4514-02-12 08:24 G	3369806.64	3369806.85	3369807.08	0.0089	0.0014
Mercury	4514-02-12 12:14 G	3369806.96	3369807.01	3369807.06	0.0089	0.0083 *
Venus	4514-09-25 22:04 G	3370032.20	3370032.42	3370032.64	0.0089	0.0005
Venus	4515-05-09 11:16 G	3370257.77	3370257.97	3370258.20	0.0089	0.0023
Venus	4515-12-21 00:57 G	3370483.34	3370483.54	3370483.74	0.0089	0.0040
Venus	4516-08-02 14:09 G	3370708.93	3370709.09	3370709.26	0.0089	0.0058
Venus	4517-03-16 03:07 G	3370934.54	3370934.63	3370934.77	0.0089	0.0076
Earth	4549-02-19 00:14 G	3382597.51	3382597.51	3382597.55	0.0089	0.0089
Moon	4549-02-19 03:35 G	3382597.59	3382597.65	3382597.75	0.0089	0.0084
Moon	4550-02-21 07:26 G	3382964.69	3382964.81	3382964.97	0.0089	0.0073
Earth	4550-02-21 10:19 G	3382964.80	3382964.93	3382965.12	0.0089	0.0069 *
Earth	4551-02-23 20:52 G	3383332.18	3383332.37	3383332.61	0.0089	0.0049
Moon	4551-02-23 23:31 G	3383332.28	3383332.48	3383332.73	0.0089	0.0044 *
Moon	4552-02-26 06:43 G	3383699.56	3383699.78	3383700.02	0.0089	0.0033
Earth	4552-02-26 07:40 G	3383699.59	3383699.82	3383700.08	0.0089	0.0029 *
Earth	4553-02-27 18:14 G	3384067.01	3384067.26	3384067.52	0.0089	0.0009
Moon	4553-02-27 18:43 G	3384067.02	3384067.28	3384067.54	0.0089	0.0004 *
Earth	4554-03-02 04:33 G	3384434.45	3384434.69	3384434.95	0.0089	0.0012
Moon	4554-03-02 06:00 G	3384434.50	3384434.75	3384435.00	0.0089	0.0007 *
Moon	4555-03-04 12:28 G	3384801.79	3384802.02	3384802.27	0.0089	0.0036
Earth	4555-03-04 14:52 G	3384801.90	3384802.12	3384802.37	0.0089	0.0032 *
Earth	4556-03-06 00:57 G	3385169.36	3385169.54	3385169.77	0.0089	0.0052
Moon	4556-03-06 04:19 G	3385169.47	3385169.68	3385169.89	0.0089	0.0047 *
Moon	4557-03-08 07:55 G	3385536.71	3385536.83	3385536.97	0.0089	0.0076
Earth	4557-03-08 11:02 G	3385536.84	3385536.96	3385537.14	0.0089	0.0072 *
Moon	4558-03-11 00:28 G	3385904.50	3385904.52	3385904.61	0.0089	0.0087
Mars	4575-11-13 11:02 G	3392360.66	3392360.96	3392361.31	0.0088	0.0030
Mars	4577-10-09 21:21 G	3393057.23	3393057.39	3393057.63	0.0088	0.0072
Mercury	4591-01-14 02:24 G	3397901.55	3397901.60	3397901.67	0.0088	0.0082

Mercury	4591-04-12 05:02 G	3397989.63	3397989.71	3397989.83	0.0088	0.0074
Mercury	4591-07-09 08:09 G	3398077.73	3398077.84	3398077.97	0.0088	0.0065
Mercury	4591-10-05 11:02 G	3398165.83	3398165.96	3398166.11	0.0088	0.0056
Mercury	4592-01-01 14:09 G	3398253.94	3398254.09	3398254.24	0.0088	0.0047
Mercury	4592-03-29 16:48 G	3398342.05	3398342.20	3398342.38	0.0088	0.0039
Mercury	4592-06-25 19:55 G	3398430.17	3398430.33	3398430.51	0.0088	0.0030
Mercury	4592-09-21 23:02 G	3398518.29	3398518.46	3398518.64	0.0088	0.0021
Mercury	4592-12-19 01:55 G	3398606.41	3398606.58	3398606.77	0.0088	0.0012
Mercury	4593-03-17 05:02 G	3398694.53	3398694.71	3398694.89	0.0088	0.0003
Mercury	4593-06-13 07:55 G	3398782.65	3398782.83	3398783.02	0.0088	0.0007
Mercury	4593-09-09 11:02 G	3398870.78	3398870.96	3398871.14	0.0088	0.0015
Venus	4593-10-10 00:14 G	3398901.42	3398901.51	3398901.63	0.0088	0.0077
Mercury	4593-12-06 13:55 G	3398958.91	3398959.08	3398959.26	0.0088	0.0024
Mercury	4594-03-04 17:02 G	3399047.04	3399047.21	3399047.38	0.0088	0.0033
Venus	4594-05-23 12:57 G	3399126.89	3399127.04	3399127.21	0.0088	0.0060
Mercury	4594-05-31 20:09 G	3399135.18	3399135.34	3399135.50	0.0088	0.0042
Mercury	4594-08-27 22:48 G	3399223.32	3399223.45	3399223.61	0.0088	0.0052
Mercury	4594-11-24 01:55 G	3399311.46	3399311.58	3399311.73	0.0088	0.0061
Venus	4595-01-04 01:40 G	3399352.39	3399352.57	3399352.77	0.0088	0.0043
Mercury	4595-02-20 05:02 G	3399399.61	3399399.71	3399399.83	0.0088	0.0070
Mercury	4595-05-19 08:09 G	3399487.77	3399487.84	3399487.93	0.0088	0.0079
Venus	4595-08-17 14:24 G	3399577.89	3399578.10	3399578.31	0.0088	0.0026
Venus	4596-03-30 03:07 G	3399803.42	3399803.63	3399803.85	0.0088	0.0010
Venus	4596-11-10 15:50 G	3400028.94	3400029.16	3400029.38	0.0088	0.0007
Venus	4597-06-24 04:19 G	3400254.47	3400254.68	3400254.89	0.0088	0.0024
Venus	4598-02-04 16:33 G	3400480.01	3400480.19	3400480.40	0.0088	0.0041
Venus	4598-09-18 05:02 G	3400705.57	3400705.71	3400705.90	0.0088	0.0058
Venus	4599-05-01 18:14 G	3400931.15	3400931.26	3400931.38	0.0088	0.0074
Earth	4632-08-22 19:11 G	3413097.24	3413097.30	3413097.43	0.0088	0.0082
Moon	4632-08-22 20:09 G	3413097.28	3413097.34	3413097.46	0.0088	0.0084 *

Earth	4633-08-25 08:24 G	3413464.69	3413464.85	3413465.06	0.0088	0.0062
Moon	4633-08-25 08:24 G	3413464.69	3413464.85	3413465.05	0.0088	0.0060 *
Moon	4634-08-27 20:09 G	3413832.13	3413832.34	3413832.60	0.0088	0.0045
Earth	4634-08-27 21:35 G	3413832.18	3413832.40	3413832.64	0.0088	0.0042 *
Earth	4635-08-30 10:33 G	3414199.69	3414199.94	3414200.20	0.0088	0.0022
Moon	4635-08-30 13:11 G	3414199.80	3414200.05	3414200.30	0.0088	0.0020 *
Moon	4636-08-31 20:52 G	3414567.10	3414567.37	3414567.63	0.0088	0.0004
Earth	4636-08-31 23:45 G	3414567.23	3414567.49	3414567.75	0.0088	0.0001 *
Earth	4637-09-03 12:43 G	3414934.77	3414935.03	3414935.29	0.0088	0.0019
Moon	4637-09-03 15:50 G	3414934.93	3414935.16	3414935.43	0.0088	0.0023 *
Moon	4638-09-05 22:04 G	3415302.19	3415302.42	3415302.66	0.0089	0.0037
Earth	4638-09-06 01:26 G	3415302.34	3415302.56	3415302.81	0.0089	0.0040 *
Earth	4639-09-08 14:09 G	3415669.92	3415670.09	3415670.30	0.0089	0.0060
Moon	4639-09-08 17:31 G	3415670.06	3415670.23	3415670.43	0.0089	0.0063 *
Moon	4640-09-10 00:28 G	3416037.42	3416037.52	3416037.67	0.0089	0.0077
Earth	4640-09-10 03:21 G	3416037.55	3416037.64	3416037.77	0.0089	0.0080 *
Mars	4657-08-30 13:40 G	3422235.97	3422236.07	3422236.21	0.0089	0.0081
Mars	4659-07-25 02:09 G	3422929.31	3422929.59	3422929.88	0.0089	0.0005
Mercury	4673-01-26 22:33 G	3427864.42	3427864.44	3427864.48	0.0089	0.0087
Mercury	4673-04-25 00:14 G	3427952.46	3427952.51	3427952.58	0.0089	0.0080
Mercury	4673-07-22 01:55 G	3428040.51	3428040.58	3428040.67	0.0089	0.0072
Mercury	4673-10-18 03:35 G	3428128.56	3428128.65	3428128.75	0.0089	0.0065
Mercury	4674-01-14 05:02 G	3428216.61	3428216.71	3428216.83	0.0089	0.0058
Mercury	4674-04-12 06:43 G	3428304.67	3428304.78	3428304.90	0.0089	0.0050
Mercury	4674-07-09 08:24 G	3428392.73	3428392.85	3428392.98	0.0089	0.0043
Mercury	4674-10-05 10:04 G	3428480.79	3428480.92	3428481.05	0.0089	0.0035
Mercury	4675-01-01 11:31 G	3428568.85	3428568.98	3428569.12	0.0089	0.0028
Mercury	4675-03-30 13:11 G	3428656.91	3428657.05	3428657.19	0.0089	0.0021
Mercury	4675-06-26 14:52 G	3428744.98	3428745.12	3428745.25	0.0089	0.0014
Mercury	4675-09-22 16:19 G	3428833.04	3428833.18	3428833.32	0.0089	0.0006

Mercury	4675-12-19 18:00 G	3428921.11	3428921.25	3428921.39	0.0089	0.0002
Mercury	4676-03-16 19:26 G	3429009.17	3429009.31	3429009.45	0.0089	0.0008
Mercury	4676-06-12 20:52 G	3429097.24	3429097.37	3429097.51	0.0089	0.0016
Venus	4676-07-10 03:21 G	3429124.53	3429124.64	3429124.78	0.0089	0.0074
Mercury	4676-09-08 22:33 G	3429185.31	3429185.44	3429185.57	0.0089	0.0023
Mercury	4676-12-06 00:00 G	3429273.37	3429273.50	3429273.63	0.0089	0.0030
Venus	4677-02-20 16:48 G	3429350.04	3429350.20	3429350.39	0.0089	0.0056
Mercury	4677-03-04 01:26 G	3429361.44	3429361.56	3429361.69	0.0089	0.0037
Mercury	4677-05-31 02:52 G	3429449.51	3429449.62	3429449.75	0.0089	0.0045
Mercury	4677-08-27 04:33 G	3429537.58	3429537.69	3429537.81	0.0089	0.0051
Venus	4677-10-04 06:28 G	3429575.58	3429575.77	3429575.98	0.0089	0.0038
Mercury	4677-11-23 06:00 G	3429625.65	3429625.75	3429625.86	0.0089	0.0059
Mercury	4678-02-19 07:26 G	3429713.73	3429713.81	3429713.91	0.0089	0.0066
Venus	4678-05-17 19:40 G	3429801.12	3429801.32	3429801.55	0.0089	0.0021
Mercury	4678-05-18 09:07 G	3429801.80	3429801.88	3429801.96	0.0089	0.0073
Mercury	4678-08-14 10:33 G	3429889.89	3429889.94	3429890.01	0.0089	0.0080
Mercury	4678-11-10 12:00 G	3429977.98	3429978.00	3429978.04	0.0089	0.0087
Venus	4678-12-29 09:21 G	3430026.67	3430026.89	3430027.11	0.0089	0.0002
Venus	4679-08-11 22:48 G	3430252.23	3430252.45	3430252.67	0.0089	0.0016
Venus	4680-03-24 12:00 G	3430477.80	3430478.00	3430478.21	0.0089	0.0033
Venus	4680-11-05 01:11 G	3430703.39	3430703.55	3430703.75	0.0089	0.0052
Venus	4681-06-18 14:52 G	3430928.99	3430929.12	3430929.26	0.0089	0.0069
Venus	4682-01-30 04:04 G	3431154.63	3431154.67	3431154.73	0.0089	0.0087
Earth	4714-02-22 22:33 G	3442865.35	3442865.44	3442865.59	0.0089	0.0078
Moon	4714-02-23 01:11 G	3442865.44	3442865.55	3442865.69	0.0089	0.0077 *
Moon	4715-02-25 08:24 G	3443232.68	3443232.85	3443233.05	0.0089	0.0058
Earth	4715-02-25 09:21 G	3443232.72	3443232.89	3443233.10	0.0089	0.0058 *
Moon	4716-02-27 18:57 G	3443600.07	3443600.29	3443600.55	0.0089	0.0039
Earth	4716-02-27 19:55 G	3443600.11	3443600.33	3443600.57	0.0089	0.0038 *
Earth	4717-03-01 06:28 G	3443967.52	3443967.77	3443968.02	0.0089	0.0018

Moon	4717-03-01 07:55 G	3443967.59	3443967.83	3443968.07	0.0089	0.0018	*
Moon	4718-03-03 14:24 G	3444334.84	3444335.10	3444335.36	0.0089	0.0002	
Earth	4718-03-03 17:02 G	3444334.96	3444335.21	3444335.46	0.0089	0.0002	*
Earth	4719-03-06 03:07 G	3444702.40	3444702.63	3444702.89	0.0089	0.0022	
Moon	4719-03-06 06:43 G	3444702.54	3444702.78	3444703.03	0.0089	0.0022	*
Moon	4720-03-07 10:04 G	3445069.72	3445069.92	3445070.16	0.0089	0.0042	
Earth	4720-03-07 13:26 G	3445069.86	3445070.06	3445070.31	0.0089	0.0042	*
Earth	4721-03-10 00:00 G	3445437.33	3445437.50	3445437.69	0.0089	0.0061	
Moon	4721-03-10 03:50 G	3445437.47	3445437.66	3445437.85	0.0089	0.0060	*
Moon	4722-03-12 07:40 G	3445804.74	3445804.82	3445804.94	0.0089	0.0081	
Earth	4722-03-12 10:04 G	3445804.84	3445804.92	3445805.05	0.0089	0.0081	*
Mars	4739-06-28 23:02 G	3452122.29	3452122.46	3452122.65	0.0088	0.0076	
Mars	4741-05-25 10:04 G	3452818.60	3452818.92	3452819.27	0.0088	0.0026	
Mercury	4755-07-16 22:48 G	3457984.43	3457984.45	3457984.49	0.0088	0.0086	
Mercury	4755-10-13 01:26 G	3458072.50	3458072.56	3458072.66	0.0088	0.0078	
Mercury	4756-01-09 04:33 G	3458160.59	3458160.69	3458160.81	0.0088	0.0069	
Mercury	4756-04-06 07:26 G	3458248.69	3458248.81	3458248.95	0.0088	0.0060	
Mercury	4756-07-03 10:33 G	3458336.80	3458336.94	3458337.09	0.0088	0.0051	
Mercury	4756-09-29 13:11 G	3458424.91	3458425.05	3458425.22	0.0088	0.0043	
Mercury	4756-12-26 16:19 G	3458513.02	3458513.18	3458513.35	0.0088	0.0034	
Mercury	4757-03-24 19:11 G	3458601.14	3458601.30	3458601.48	0.0088	0.0025	
Mercury	4757-06-20 22:19 G	3458689.26	3458689.43	3458689.61	0.0088	0.0016	
Mercury	4757-09-17 01:26 G	3458777.38	3458777.56	3458777.74	0.0088	0.0007	
Mercury	4757-12-14 04:19 G	3458865.50	3458865.68	3458865.86	0.0088	0.0002	
Venus	4758-01-13 12:28 G	3458895.96	3458896.02	3458896.10	0.0088	0.0083	
Mercury	4758-03-12 07:11 G	3458953.63	3458953.80	3458953.99	0.0088	0.0011	
Mercury	4758-06-08 10:19 G	3459041.75	3459041.93	3459042.11	0.0088	0.0020	
Venus	4758-08-27 01:11 G	3459121.41	3459121.55	3459121.70	0.0088	0.0066	
Mercury	4758-09-04 13:11 G	3459129.89	3459130.05	3459130.23	0.0088	0.0029	
Mercury	4758-12-01 16:19 G	3459218.02	3459218.18	3459218.35	0.0088	0.0038	



Mercury	4759-02-27 19:26 G	3459306.16	3459306.31	3459306.46	0.0088	0.0047
Venus	4759-04-09 13:40 G	3459346.91	3459347.07	3459347.27	0.0088	0.0050
Mercury	4759-05-26 22:33 G	3459394.30	3459394.44	3459394.58	0.0088	0.0056
Mercury	4759-08-23 01:11 G	3459482.44	3459482.55	3459482.69	0.0088	0.0066
Mercury	4759-11-19 04:19 G	3459570.60	3459570.68	3459570.79	0.0088	0.0075
Venus	4759-11-21 02:24 G	3459572.41	3459572.60	3459572.82	0.0088	0.0033
Mercury	4760-02-15 07:26 G	3459658.77	3459658.81	3459658.87	0.0088	0.0084
Venus	4760-07-03 15:07 G	3459797.92	3459798.13	3459798.36	0.0088	0.0016
Venus	4761-02-14 04:04 G	3460023.45	3460023.67	3460023.89	0.0088	0.0001
Venus	4761-09-27 16:33 G	3460248.98	3460249.19	3460249.41	0.0088	0.0018
Venus	4762-05-11 05:02 G	3460474.52	3460474.71	3460474.92	0.0088	0.0035
Venus	4762-12-22 17:31 G	3460700.07	3460700.23	3460700.42	0.0088	0.0052
Venus	4763-08-05 06:00 G	3460925.64	3460925.75	3460925.91	0.0088	0.0069
Venus	4764-03-17 18:28 G	3461151.25	3461151.27	3461151.35	0.0088	0.0086
Moon	4797-08-25 16:33 G	3473365.03	3473365.19	3473365.39	0.0088	0.0067
Earth	4797-08-25 18:43 G	3473365.13	3473365.28	3473365.44	0.0088	0.0071 *
Earth	4798-08-28 07:40 G	3473732.61	3473732.82	3473733.04	0.0088	0.0051
Moon	4798-08-28 09:35 G	3473732.73	3473732.90	3473733.13	0.0088	0.0056 *
Moon	4799-08-30 17:02 G	3474099.96	3474100.21	3474100.47	0.0088	0.0026
Earth	4799-08-30 20:24 G	3474100.12	3474100.35	3474100.61	0.0088	0.0032 *
Earth	4800-09-01 09:50 G	3474467.65	3474467.91	3474468.17	0.0088	0.0011
Moon	4800-09-01 12:57 G	3474467.80	3474468.04	3474468.31	0.0088	0.0016 *
Moon	4801-09-03 19:11 G	3474835.05	3474835.30	3474835.56	0.0088	0.0013
Earth	4801-09-03 22:48 G	3474835.19	3474835.45	3474835.71	0.0088	0.0009 *
Earth	4802-09-06 11:16 G	3475202.74	3475202.97	3475203.23	0.0089	0.0030
Moon	4802-09-06 14:38 G	3475202.85	3475203.11	3475203.36	0.0089	0.0025 *
Moon	4803-09-08 22:19 G	3475570.24	3475570.43	3475570.65	0.0089	0.0053
Earth	4803-09-09 00:43 G	3475570.31	3475570.53	3475570.75	0.0089	0.0049 *
Earth	4804-09-10 12:57 G	3475937.91	3475938.04	3475938.23	0.0089	0.0070
Moon	4804-09-10 14:38 G	3475937.95	3475938.11	3475938.31	0.0089	0.0066 *

Mars	4823-03-10 20:24 G	3482693.10	3482693.35	3482693.63	0.0089	0.0033
Mars	4825-02-01 08:38 G	3483386.65	3483386.86	3483387.11	0.0089	0.0053
Mercury	4837-10-24 22:33 G	3488035.40	3488035.44	3488035.50	0.0089	0.0083
Mercury	4838-01-21 00:14 G	3488123.45	3488123.51	3488123.59	0.0089	0.0076
Mercury	4838-04-19 01:55 G	3488211.50	3488211.58	3488211.68	0.0089	0.0068
Mercury	4838-07-16 03:35 G	3488299.55	3488299.65	3488299.76	0.0089	0.0061
Mercury	4838-10-12 05:16 G	3488387.61	3488387.72	3488387.84	0.0089	0.0053
Mercury	4839-01-08 06:43 G	3488475.67	3488475.78	3488475.91	0.0089	0.0046
Mercury	4839-04-06 08:24 G	3488563.73	3488563.85	3488563.98	0.0089	0.0039
Mercury	4839-07-03 10:04 G	3488651.79	3488651.92	3488652.05	0.0089	0.0031
Mercury	4839-09-29 11:31 G	3488739.85	3488739.98	3488740.12	0.0089	0.0024
Mercury	4839-12-26 13:11 G	3488827.92	3488828.05	3488828.19	0.0089	0.0017
Mercury	4840-03-23 14:52 G	3488915.98	3488916.12	3488916.26	0.0089	0.0009
Mercury	4840-06-19 16:19 G	3489004.04	3489004.18	3489004.32	0.0089	0.0003
Mercury	4840-09-15 18:00 G	3489092.11	3489092.25	3489092.39	0.0089	0.0005
Venus	4840-10-12 14:52 G	3489119.05	3489119.12	3489119.24	0.0089	0.0081
Mercury	4840-12-12 19:26 G	3489180.17	3489180.31	3489180.45	0.0089	0.0012
Mercury	4841-03-10 21:07 G	3489268.24	3489268.38	3489268.51	0.0089	0.0020
Venus	4841-05-26 04:19 G	3489344.55	3489344.68	3489344.86	0.0089	0.0063
Mercury	4841-06-06 22:33 G	3489356.31	3489356.44	3489356.57	0.0089	0.0027
Mercury	4841-09-03 00:00 G	3489444.38	3489444.50	3489444.63	0.0089	0.0034
Mercury	4841-11-30 01:26 G	3489532.45	3489532.56	3489532.69	0.0089	0.0041
Venus	4842-01-06 18:00 G	3489570.07	3489570.25	3489570.45	0.0089	0.0045
Mercury	4842-02-26 02:52 G	3489620.52	3489620.62	3489620.75	0.0089	0.0049
Mercury	4842-05-25 04:33 G	3489708.59	3489708.69	3489708.80	0.0089	0.0055
Venus	4842-08-20 07:26 G	3489795.60	3489795.81	3489796.02	0.0089	0.0027
Mercury	4842-08-21 06:00 G	3489796.66	3489796.75	3489796.86	0.0089	0.0063
Mercury	4842-11-17 07:26 G	3489884.74	3489884.81	3489884.91	0.0089	0.0070
Mercury	4843-02-13 09:07 G	3489972.82	3489972.88	3489972.95	0.0089	0.0077
Venus	4843-04-02 20:52 G	3490021.15	3490021.37	3490021.59	0.0089	0.0009

Mercury	4843-05-12 10:33 G	3490060.90	3490060.94	3490060.99	0.0089	0.0084
Venus	4843-11-14 10:04 G	3490246.71	3490246.92	3490247.15	0.0089	0.0009
Venus	4844-06-26 23:31 G	3490472.27	3490472.48	3490472.69	0.0089	0.0027
Venus	4845-02-07 12:43 G	3490697.85	3490698.03	3490698.23	0.0089	0.0045
Venus	4845-09-21 02:09 G	3490923.44	3490923.59	3490923.76	0.0089	0.0063
Venus	4846-05-04 15:21 G	3491149.06	3491149.14	3491149.25	0.0089	0.0081
Moon	4878-02-22 10:48 G	3502765.89	3502765.95	3502766.07	0.0089	0.0083
Earth	4878-02-22 11:31 G	3502765.93	3502765.98	3502766.05	0.0089	0.0087 *
Moon	4879-02-24 21:07 G	3503133.25	3503133.38	3503133.56	0.0089	0.0072
Earth	4879-02-24 21:35 G	3503133.26	3503133.40	3503133.59	0.0089	0.0067 *
Earth	4880-02-27 08:24 G	3503500.64	3503500.85	3503501.07	0.0089	0.0047
Moon	4880-02-27 10:19 G	3503500.73	3503500.93	3503501.16	0.0089	0.0043 *
Moon	4881-02-28 15:35 G	3503867.92	3503868.15	3503868.41	0.0089	0.0032
Earth	4881-02-28 18:28 G	3503868.05	3503868.27	3503868.53	0.0089	0.0028 *
Earth	4882-03-03 05:16 G	3504235.46	3504235.72	3504235.97	0.0089	0.0008
Moon	4882-03-03 08:24 G	3504235.60	3504235.85	3504236.11	0.0089	0.0004 *
Moon	4883-03-05 12:00 G	3504602.75	3504603.00	3504603.25	0.0089	0.0007
Earth	4883-03-05 15:21 G	3504602.90	3504603.14	3504603.40	0.0089	0.0012 *
Earth	4884-03-07 01:40 G	3504970.34	3504970.57	3504970.82	0.0089	0.0031
Moon	4884-03-07 04:33 G	3504970.47	3504970.69	3504970.94	0.0089	0.0036 *
Moon	4885-03-09 09:50 G	3505337.70	3505337.91	3505338.12	0.0089	0.0046
Earth	4885-03-09 12:00 G	3505337.81	3505338.00	3505338.22	0.0089	0.0051 *
Earth	4886-03-11 22:33 G	3505705.29	3505705.44	3505705.60	0.0089	0.0070
Moon	4886-03-11 23:16 G	3505705.36	3505705.47	3505705.64	0.0089	0.0075 *
Moon	4887-03-14 08:38 G	3506072.82	3506072.86	3506072.94	0.0089	0.0086
Mars	4905-01-06 23:02 G	3512580.14	3512580.46	3512580.82	0.0088	0.0020
Mars	4906-12-04 10:04 G	3513276.82	3513276.92	3513277.06	0.0088	0.0083
Mercury	4920-04-12 22:19 G	3518155.37	3518155.43	3518155.50	0.0088	0.0081
Mercury	4920-07-10 00:57 G	3518243.45	3518243.54	3518243.65	0.0088	0.0073
Mercury	4920-10-06 03:50 G	3518331.55	3518331.66	3518331.79	0.0088	0.0064

Mercury	4921-01-02 06:57 G	3518419.65	3518419.79	3518419.93	0.0088	0.0055
Mercury	4921-03-31 09:35 G	3518507.76	3518507.90	3518508.06	0.0088	0.0047
Mercury	4921-06-27 12:28 G	3518595.87	3518596.02	3518596.20	0.0088	0.0038
Mercury	4921-09-23 15:35 G	3518683.99	3518684.15	3518684.32	0.0088	0.0029
Mercury	4921-12-20 18:43 G	3518772.10	3518772.28	3518772.45	0.0088	0.0020
Mercury	4922-03-18 21:35 G	3518860.22	3518860.40	3518860.58	0.0088	0.0011
Mercury	4922-06-15 00:28 G	3518948.34	3518948.52	3518948.71	0.0088	0.0003
Mercury	4922-09-11 03:35 G	3519036.47	3519036.65	3519036.83	0.0088	0.0007
Venus	4922-11-29 12:57 G	3519115.93	3519116.04	3519116.17	0.0088	0.0073
Mercury	4922-12-08 06:28 G	3519124.59	3519124.77	3519124.95	0.0088	0.0016
Mercury	4923-03-06 09:21 G	3519212.72	3519212.89	3519213.07	0.0088	0.0025
Mercury	4923-06-02 12:14 G	3519300.86	3519301.01	3519301.19	0.0088	0.0034
Venus	4923-07-13 01:40 G	3519341.41	3519341.57	3519341.75	0.0088	0.0056
Mercury	4923-08-29 15:21 G	3519388.99	3519389.14	3519389.31	0.0088	0.0043
Mercury	4923-11-25 18:14 G	3519477.13	3519477.26	3519477.42	0.0088	0.0052
Mercury	4924-02-21 21:21 G	3519565.27	3519565.39	3519565.53	0.0088	0.0061
Venus	4924-02-23 14:24 G	3519566.91	3519567.10	3519567.31	0.0088	0.0039
Mercury	4924-05-20 00:28 G	3519653.42	3519653.52	3519653.64	0.0088	0.0070
Mercury	4924-08-16 03:35 G	3519741.58	3519741.65	3519741.73	0.0088	0.0079
Venus	4924-10-06 03:07 G	3519792.42	3519792.63	3519792.85	0.0088	0.0022
Venus	4925-05-19 15:50 G	3520017.95	3520018.16	3520018.38	0.0088	0.0006
Venus	4925-12-31 04:33 G	3520243.47	3520243.69	3520243.91	0.0088	0.0012
Venus	4926-08-13 17:02 G	3520469.01	3520469.21	3520469.43	0.0088	0.0029
Venus	4927-03-27 05:45 G	3520694.57	3520694.74	3520694.94	0.0088	0.0046
Venus	4927-11-07 18:14 G	3520920.13	3520920.26	3520920.43	0.0088	0.0063
Venus	4928-06-20 06:43 G	3521145.71	3521145.78	3521145.89	0.0088	0.0080
Earth	4961-08-26 03:50 G	3533265.57	3533265.66	3533265.79	0.0088	0.0080
Moon	4961-08-26 06:43 G	3533265.71	3533265.78	3533265.92	0.0088	0.0081 *
Moon	4962-08-28 13:40 G	3533632.88	3533633.07	3533633.28	0.0088	0.0059
Earth	4962-08-28 16:48 G	3533633.03	3533633.20	3533633.41	0.0088	0.0060 *

Earth	4963-08-31 06:00 G	3534000.53	3534000.75	3534001.00	0.0088	0.0041	
Moon	4963-08-31 10:04 G	3534000.70	3534000.92	3534001.16	0.0088	0.0042	*
Moon	4964-09-01 16:19 G	3534367.94	3534368.18	3534368.44	0.0088	0.0020	
Earth	4964-09-01 19:26 G	3534368.06	3534368.31	3534368.57	0.0088	0.0021	*
Earth	4965-09-04 08:24 G	3534735.59	3534735.85	3534736.12	0.0088	0.0002	
Moon	4965-09-04 11:16 G	3534735.71	3534735.97	3534736.24	0.0088	0.0003	*
Moon	4966-09-06 19:40 G	3535103.09	3535103.32	3535103.58	0.0088	0.0022	
Earth	4966-09-06 21:21 G	3535103.15	3535103.39	3535103.66	0.0088	0.0020	*
Moon	4967-09-09 10:19 G	3535470.70	3535470.93	3535471.20	0.0089	0.0038	
Earth	4967-09-09 10:04 G	3535470.71	3535470.92	3535471.18	0.0089	0.0040	*
Earth	4968-09-10 23:31 G	3535838.29	3535838.48	3535838.68	0.0089	0.0059	
Moon	4968-09-10 23:45 G	3535838.33	3535838.49	3535838.69	0.0089	0.0062	*
Moon	4969-09-13 09:50 G	3536205.81	3536205.91	3536206.08	0.0089	0.0077	
Earth	4969-09-13 12:14 G	3536205.91	3536206.01	3536206.15	0.0089	0.0079	*
Mars	4986-10-25 12:57 G	3542456.89	3542457.04	3542457.24	0.0089	0.0071	
Jupiter	4987-12-26 17:31 G	3542883.75	3542884.23	3542884.75	0.0089	0.0026	
Mars	4988-09-18 03:35 G	3543150.37	3543150.65	3543150.94	0.0089	0.0014	

# 6TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 6th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	5002-04-26 20:52 G		3548118.35	3548118.37	3548118.41	0.0089	0.0087	
Mercury	5002-07-23 22:33 G		3548206.39	3548206.44	3548206.51	0.0089	0.0079	

Mercury	5002-10-20 00:14 G	3548294.44	3548294.51	3548294.60	0.0089	0.0072
Mercury	5003-01-16 01:55 G	3548382.49	3548382.58	3548382.69	0.0089	0.0064
Mercury	5003-04-14 03:35 G	3548470.55	3548470.65	3548470.76	0.0089	0.0057
Mercury	5003-07-11 05:02 G	3548558.61	3548558.71	3548558.84	0.0089	0.0050
Mercury	5003-10-07 06:43 G	3548646.67	3548646.78	3548646.91	0.0089	0.0042
Mercury	5004-01-03 08:24 G	3548734.73	3548734.85	3548734.99	0.0089	0.0035
Mercury	5004-03-31 10:04 G	3548822.79	3548822.92	3548823.06	0.0089	0.0027
Mercury	5004-06-27 11:31 G	3548910.85	3548910.98	3548911.13	0.0089	0.0021
Mercury	5004-09-23 13:11 G	3548998.92	3548999.05	3548999.19	0.0089	0.0013
Mercury	5004-12-20 14:52 G	3549086.98	3549087.12	3549087.26	0.0089	0.0005
Venus	5005-01-16 02:52 G	3549113.58	3549113.62	3549113.68	0.0089	0.0087
Mercury	5005-03-18 16:19 G	3549175.05	3549175.18	3549175.32	0.0089	0.0004
Mercury	5005-06-14 18:00 G	3549263.11	3549263.25	3549263.39	0.0089	0.0009
Venus	5005-08-29 16:04 G	3549339.05	3549339.17	3549339.33	0.0089	0.0069
Mercury	5005-09-10 19:26 G	3549351.18	3549351.31	3549351.45	0.0089	0.0017
Mercury	5005-12-07 21:07 G	3549439.24	3549439.38	3549439.51	0.0089	0.0024
Mercury	5006-03-05 22:33 G	3549527.31	3549527.44	3549527.57	0.0089	0.0031
Venus	5006-04-12 05:31 G	3549564.57	3549564.73	3549564.93	0.0089	0.0052
Mercury	5006-06-02 00:00 G	3549615.38	3549615.50	3549615.63	0.0089	0.0038
Mercury	5006-08-29 01:26 G	3549703.45	3549703.56	3549703.69	0.0089	0.0046
Venus	5006-11-23 18:57 G	3549790.10	3549790.29	3549790.51	0.0089	0.0034
Mercury	5006-11-25 03:07 G	3549791.52	3549791.63	3549791.75	0.0089	0.0052
Mercury	5007-02-21 04:33 G	3549879.60	3549879.69	3549879.80	0.0089	0.0060
Mercury	5007-05-20 06:00 G	3549967.67	3549967.75	3549967.85	0.0089	0.0067
Venus	5007-07-07 08:24 G	3550015.64	3550015.85	3550016.07	0.0089	0.0016
Mercury	5007-08-16 07:40 G	3550055.75	3550055.82	3550055.90	0.0089	0.0074
Mercury	5007-11-12 09:07 G	3550143.83	3550143.88	3550143.95	0.0089	0.0081
Mercury	5008-02-08 10:33 G	3550231.93	3550231.94	3550231.98	0.0089	0.0088
Venus	5008-02-17 21:50 G	3550241.19	3550241.41	3550241.63	0.0089	0.0002
Venus	5008-09-30 11:02 G	3550466.76	3550466.96	3550467.19	0.0089	0.0021

Venus	5009-05-14 00:14 G	3550692.33	3550692.51	3550692.73	0.0089	0.0039
Venus	5009-12-25 13:26 G	3550917.91	3550918.06	3550918.25	0.0089	0.0057
Venus	5010-08-08 03:07 G	3551143.52	3551143.63	3551143.76	0.0089	0.0074
Earth	5043-02-26 10:33 G	3563033.82	3563033.94	3563034.08	0.0089	0.0076
Moon	5043-02-26 12:28 G	3563033.91	3563034.02	3563034.16	0.0089	0.0077 *
Moon	5044-02-28 17:16 G	3563401.04	3563401.22	3563401.45	0.0089	0.0055
Earth	5044-02-28 20:52 G	3563401.19	3563401.37	3563401.58	0.0089	0.0056 *
Earth	5045-03-02 07:11 G	3563768.58	3563768.80	3563769.04	0.0089	0.0037
Moon	5045-03-02 10:48 G	3563768.73	3563768.95	3563769.19	0.0089	0.0038 *
Moon	5046-03-04 14:24 G	3564135.86	3564136.10	3564136.35	0.0089	0.0017
Earth	5046-03-04 18:00 G	3564136.00	3564136.25	3564136.50	0.0089	0.0017 *
Earth	5047-03-07 04:04 G	3564503.42	3564503.67	3564503.93	0.0089	0.0003
Moon	5047-03-07 07:11 G	3564503.55	3564503.80	3564504.06	0.0089	0.0002 *
Moon	5048-03-08 12:28 G	3564870.80	3564871.02	3564871.27	0.0089	0.0023
Earth	5048-03-08 14:09 G	3564870.86	3564871.09	3564871.35	0.0089	0.0022 *
Earth	5049-03-11 00:28 G	3565238.31	3565238.52	3565238.76	0.0089	0.0041
Moon	5049-03-11 01:40 G	3565238.35	3565238.57	3565238.82	0.0089	0.0041 *
Earth	5050-03-13 11:02 G	3565605.78	3565605.96	3565606.15	0.0089	0.0060
Moon	5050-03-13 11:16 G	3565605.81	3565605.97	3565606.16	0.0089	0.0061 *
Moon	5051-03-15 19:26 G	3565973.20	3565973.31	3565973.44	0.0089	0.0078
Earth	5051-03-15 20:52 G	3565973.29	3565973.37	3565973.51	0.0089	0.0080 *
Mars	5068-08-21 10:48 G	3572341.74	3572341.95	3572342.21	0.0088	0.0065
Mars	5070-07-18 22:19 G	3573038.13	3573038.43	3573038.76	0.0088	0.0038
Mercury	5084-10-12 18:43 G	3578238.25	3578238.28	3578238.33	0.0088	0.0085
Mercury	5085-01-08 21:50 G	3578326.32	3578326.41	3578326.50	0.0088	0.0076
Mercury	5085-04-07 00:14 G	3578414.42	3578414.51	3578414.64	0.0088	0.0068
Mercury	5085-07-04 03:21 G	3578502.52	3578502.64	3578502.78	0.0088	0.0059
Mercury	5085-09-30 06:28 G	3578590.62	3578590.77	3578590.91	0.0088	0.0050
Mercury	5085-12-27 09:07 G	3578678.73	3578678.88	3578679.04	0.0088	0.0042
Mercury	5086-03-25 12:00 G	3578766.84	3578767.00	3578767.17	0.0088	0.0033

Mercury	5086-06-21 15:07 G	3578854.96	3578855.13	3578855.30	0.0088	0.0024
Mercury	5086-09-17 18:00 G	3578943.07	3578943.25	3578943.43	0.0088	0.0015
Mercury	5086-12-14 20:52 G	3579031.19	3579031.37	3579031.55	0.0088	0.0007
Venus	5087-03-04 01:26 G	3579110.47	3579110.56	3579110.65	0.0088	0.0079
Mercury	5087-03-13 00:00 G	3579119.32	3579119.50	3579119.68	0.0088	0.0003
Mercury	5087-06-09 02:52 G	3579207.44	3579207.62	3579207.80	0.0088	0.0012
Mercury	5087-09-05 05:45 G	3579295.57	3579295.74	3579295.92	0.0088	0.0021
Venus	5087-10-15 13:26 G	3579335.93	3579336.06	3579336.24	0.0088	0.0063
Mercury	5087-12-02 08:38 G	3579383.70	3579383.86	3579384.04	0.0088	0.0030
Mercury	5088-02-28 11:31 G	3579471.83	3579471.98	3579472.16	0.0088	0.0039
Mercury	5088-05-26 14:38 G	3579559.97	3579560.11	3579560.27	0.0088	0.0048
Venus	5088-05-28 02:09 G	3579561.42	3579561.59	3579561.80	0.0088	0.0046
Mercury	5088-08-22 17:31 G	3579648.11	3579648.23	3579648.39	0.0088	0.0057
Mercury	5088-11-18 20:38 G	3579736.25	3579736.36	3579736.49	0.0088	0.0066
Venus	5089-01-08 14:52 G	3579786.93	3579787.12	3579787.35	0.0088	0.0029
Mercury	5089-02-14 23:45 G	3579824.41	3579824.49	3579824.59	0.0088	0.0075
Mercury	5089-05-14 02:52 G	3579912.58	3579912.62	3579912.68	0.0088	0.0084
Venus	5089-08-22 03:50 G	3580012.45	3580012.66	3580012.88	0.0088	0.0012
Venus	5090-04-04 16:48 G	3580237.98	3580238.20	3580238.42	0.0088	0.0006
Venus	5090-11-16 05:16 G	3580463.52	3580463.72	3580463.94	0.0088	0.0023
Venus	5091-06-29 17:45 G	3580689.06	3580689.24	3580689.45	0.0088	0.0040
Venus	5092-02-10 06:14 G	3580914.61	3580914.76	3580914.95	0.0088	0.0057
Venus	5092-09-22 18:43 G	3581140.19	3581140.28	3581140.43	0.0088	0.0074
Earth	5125-08-27 13:40 G	3593166.07	3593166.07	3593166.11	0.0088	0.0088
Earth	5126-08-30 02:52 G	3593533.46	3593533.62	3593533.79	0.0088	0.0069
Moon	5126-08-30 06:00 G	3593533.59	3593533.75	3593533.95	0.0088	0.0065 *
Moon	5127-09-01 12:28 G	3593900.84	3593901.02	3593901.24	0.0088	0.0054
Earth	5127-09-01 15:35 G	3593900.96	3593901.15	3593901.39	0.0088	0.0050 *
Earth	5128-09-03 05:02 G	3594268.46	3594268.71	3594268.96	0.0088	0.0030
Moon	5128-09-03 06:28 G	3594268.53	3594268.77	3594269.05	0.0088	0.0026 *



Moon	5129-09-05 16:48 G	3594635.96	3594636.20	3594636.46	0.0088	0.0015
Earth	5129-09-05 18:00 G	3594636.00	3594636.25	3594636.52	0.0088	0.0010 *
Moon	5130-09-08 06:57 G	3595003.53	3595003.79	3595004.06	0.0088	0.0014
Earth	5130-09-08 07:11 G	3595003.54	3595003.80	3595004.06	0.0088	0.0009 *
Earth	5131-09-10 19:55 G	3595371.10	3595371.33	3595371.59	0.0088	0.0030
Moon	5131-09-10 22:04 G	3595371.17	3595371.42	3595371.66	0.0088	0.0025 *
Moon	5132-09-12 06:43 G	3595738.58	3595738.78	3595739.01	0.0089	0.0053
Earth	5132-09-12 09:07 G	3595738.67	3595738.88	3595739.11	0.0089	0.0049 *
Earth	5133-09-14 21:35 G	3596106.26	3596106.40	3596106.59	0.0089	0.0069
Moon	5133-09-15 01:26 G	3596106.38	3596106.56	3596106.74	0.0089	0.0064 *
Earth	5134-09-17 10:48 G	3596473.94	3596473.95	3596474.01	0.0089	0.0088
Mars	5152-05-05 19:40 G	3602914.06	3602914.32	3602914.61	0.0089	0.0024
Jupiter	5154-02-25 02:52 G	3603574.34	3603574.62	3603574.96	0.0089	0.0071
Mars	5154-03-30 08:38 G	3603607.69	3603607.86	3603608.10	0.0089	0.0063
Mercury	5167-01-22 20:52 G	3608289.33	3608289.37	3608289.43	0.0089	0.0083
Mercury	5167-04-20 22:33 G	3608377.37	3608377.44	3608377.52	0.0089	0.0075
Mercury	5167-07-18 00:14 G	3608465.43	3608465.51	3608465.61	0.0089	0.0068
Mercury	5167-10-14 01:55 G	3608553.48	3608553.58	3608553.69	0.0089	0.0060
Mercury	5168-01-10 03:35 G	3608641.54	3608641.65	3608641.76	0.0089	0.0053
Mercury	5168-04-07 05:02 G	3608729.60	3608729.71	3608729.84	0.0089	0.0046
Mercury	5168-07-04 06:43 G	3608817.66	3608817.78	3608817.91	0.0089	0.0038
Mercury	5168-09-30 08:24 G	3608905.72	3608905.85	3608905.99	0.0089	0.0031
Mercury	5168-12-27 10:04 G	3608993.78	3608993.92	3608994.06	0.0089	0.0023
Mercury	5169-03-25 11:31 G	3609081.85	3609081.98	3609082.12	0.0089	0.0016
Mercury	5169-06-21 13:11 G	3609169.91	3609170.05	3609170.19	0.0089	0.0009
Mercury	5169-09-17 14:52 G	3609257.98	3609258.12	3609258.26	0.0089	0.0002
Venus	5169-12-02 03:21 G	3609333.55	3609333.64	3609333.78	0.0089	0.0077
Mercury	5169-12-14 16:19 G	3609346.04	3609346.18	3609346.32	0.0089	0.0006
Mercury	5170-03-12 18:00 G	3609434.11	3609434.25	3609434.39	0.0089	0.0013
Mercury	5170-06-08 19:26 G	3609522.18	3609522.31	3609522.45	0.0089	0.0020

Venus	5170-07-15 16:48 G	3609559.05	3609559.20	3609559.38	0.0089	0.0059
Mercury	5170-09-04 21:07 G	3609610.25	3609610.38	3609610.51	0.0089	0.0027
Mercury	5170-12-01 22:33 G	3609698.32	3609698.44	3609698.57	0.0089	0.0035
Venus	5171-02-26 06:14 G	3609784.58	3609784.76	3609784.97	0.0089	0.0041
Mercury	5171-02-28 00:14 G	3609786.38	3609786.51	3609786.63	0.0089	0.0042
Mercury	5171-05-27 01:26 G	3609874.46	3609874.56	3609874.69	0.0089	0.0049
Mercury	5171-08-23 02:52 G	3609962.53	3609962.62	3609962.74	0.0089	0.0057
Venus	5171-10-09 19:55 G	3610010.12	3610010.33	3610010.55	0.0089	0.0022
Mercury	5171-11-19 04:33 G	3610050.60	3610050.69	3610050.80	0.0089	0.0063
Mercury	5172-02-15 06:00 G	3610138.68	3610138.75	3610138.85	0.0089	0.0071
Mercury	5172-05-13 07:26 G	3610226.76	3610226.81	3610226.89	0.0089	0.0078
Venus	5172-05-22 09:21 G	3610235.67	3610235.89	3610236.11	0.0089	0.0004
Mercury	5172-08-09 09:07 G	3610314.85	3610314.88	3610314.93	0.0089	0.0084
Venus	5173-01-02 22:33 G	3610461.23	3610461.44	3610461.66	0.0089	0.0014
Venus	5173-08-16 11:45 G	3610686.79	3610686.99	3610687.20	0.0089	0.0032
Venus	5174-03-30 00:57 G	3610912.37	3610912.54	3610912.74	0.0089	0.0050
Venus	5174-11-10 14:09 G	3611137.97	3611138.09	3611138.25	0.0089	0.0068
Venus	5175-06-24 03:21 G	3611363.60	3611363.64	3611363.73	0.0089	0.0086
Moon	5207-02-26 18:57 G	3622934.21	3622934.29	3622934.43	0.0089	0.0080
Earth	5207-02-26 22:19 G	3622934.37	3622934.43	3622934.53	0.0089	0.0084 *
Earth	5208-02-29 08:52 G	3623301.71	3623301.87	3623302.06	0.0089	0.0065
Moon	5208-02-29 12:14 G	3623301.88	3623302.01	3623302.19	0.0089	0.0070 *
Moon	5209-03-02 16:04 G	3623668.97	3623669.17	3623669.41	0.0089	0.0042
Earth	5209-03-02 19:26 G	3623669.10	3623669.31	3623669.54	0.0089	0.0046 *
Earth	5210-03-05 05:31 G	3624036.51	3624036.73	3624036.99	0.0089	0.0027
Moon	5210-03-05 08:24 G	3624036.62	3624036.85	3624037.11	0.0089	0.0031 *
Moon	5211-03-07 14:38 G	3624403.86	3624404.11	3624404.35	0.0089	0.0003
Earth	5211-03-07 16:19 G	3624403.93	3624404.18	3624404.44	0.0089	0.0008 *
Moon	5212-03-09 02:38 G	3624771.35	3624771.61	3624771.88	0.0089	0.0008
Earth	5212-03-09 02:24 G	3624771.36	3624771.60	3624771.86	0.0089	0.0012 *

Earth	5213-03-11 12:43 G	3625138.80	3625139.03	3625139.28	0.0089	0.0031
Moon	5213-03-11 13:26 G	3625138.84	3625139.06	3625139.30	0.0089	0.0035 *
Moon	5214-03-13 21:21 G	3625506.17	3625506.39	3625506.62	0.0089	0.0045
Earth	5214-03-13 23:02 G	3625506.26	3625506.46	3625506.68	0.0089	0.0050 *
Earth	5215-03-16 09:07 G	3625873.74	3625873.88	3625874.05	0.0089	0.0069
Moon	5215-03-16 12:00 G	3625873.89	3625874.00	3625874.16	0.0089	0.0074 *
Moon	5216-03-17 16:04 G	3626241.11	3626241.17	3626241.28	0.0089	0.0084
Earth	5216-03-17 19:40 G	3626241.30	3626241.32	3626241.36	0.0089	0.0088
Mars	5234-03-02 09:50 G	3632799.57	3632799.91	3632800.26	0.0088	0.0008
Mercury	5249-07-10 18:14 G	3638409.19	3638409.26	3638409.33	0.0088	0.0080
Mercury	5249-10-06 20:38 G	3638497.28	3638497.36	3638497.48	0.0088	0.0072
Mercury	5250-01-02 23:45 G	3638585.38	3638585.49	3638585.62	0.0088	0.0063
Mercury	5250-04-01 02:24 G	3638673.48	3638673.60	3638673.76	0.0088	0.0055
Mercury	5250-06-28 05:31 G	3638761.59	3638761.73	3638761.89	0.0088	0.0046
Mercury	5250-09-24 08:24 G	3638849.69	3638849.85	3638850.02	0.0088	0.0037
Mercury	5250-12-21 11:31 G	3638937.81	3638937.98	3638938.15	0.0088	0.0028
Mercury	5251-03-19 14:09 G	3639025.92	3639026.09	3639026.27	0.0088	0.0020
Venus	5251-06-06 12:57 G	3639105.01	3639105.04	3639105.10	0.0088	0.0086
Mercury	5251-06-15 17:16 G	3639114.04	3639114.22	3639114.40	0.0088	0.0011
Mercury	5251-09-11 20:09 G	3639202.16	3639202.34	3639202.52	0.0088	0.0002
Mercury	5251-12-08 23:02 G	3639290.28	3639290.46	3639290.65	0.0088	0.0008
Venus	5252-01-18 01:40 G	3639330.45	3639330.57	3639330.71	0.0088	0.0069
Mercury	5252-03-06 02:09 G	3639378.41	3639378.59	3639378.77	0.0088	0.0016
Mercury	5252-06-02 05:02 G	3639466.54	3639466.71	3639466.89	0.0088	0.0025
Mercury	5252-08-29 07:55 G	3639554.67	3639554.83	3639555.00	0.0088	0.0034
Venus	5252-08-30 14:24 G	3639555.93	3639556.10	3639556.28	0.0088	0.0052
Mercury	5252-11-25 10:48 G	3639642.80	3639642.95	3639643.12	0.0088	0.0043
Mercury	5253-02-21 13:55 G	3639730.94	3639731.08	3639731.23	0.0088	0.0052
Venus	5253-04-13 03:07 G	3639781.44	3639781.63	3639781.84	0.0088	0.0035
Mercury	5253-05-20 16:48 G	3639819.08	3639819.20	3639819.34	0.0088	0.0061

Mercury	5253-08-16 19:55 G	3639907.23	3639907.33	3639907.45	0.0088	0.0070
Mercury	5253-11-12 22:33 G	3639995.39	3639995.44	3639995.54	0.0088	0.0080
Venus	5253-11-24 15:50 G	3640006.95	3640007.16	3640007.38	0.0088	0.0018
Venus	5254-07-08 04:33 G	3640232.47	3640232.69	3640232.91	0.0088	0.0001
Venus	5255-02-18 17:16 G	3640458.00	3640458.22	3640458.43	0.0088	0.0016
Venus	5255-10-02 05:45 G	3640683.54	3640683.74	3640683.95	0.0088	0.0033
Venus	5256-05-14 18:43 G	3640909.10	3640909.28	3640909.46	0.0088	0.0050
Venus	5256-12-26 06:43 G	3641134.67	3641134.78	3641134.94	0.0088	0.0068
Venus	5257-08-08 19:26 G	3641360.28	3641360.31	3641360.39	0.0088	0.0085
Moon	5290-08-29 09:50 G	3653433.81	3653433.91	3653434.05	0.0088	0.0078
Earth	5290-08-29 12:00 G	3653433.90	3653434.00	3653434.15	0.0088	0.0078 *
Earth	5291-09-01 00:57 G	3653801.36	3653801.54	3653801.76	0.0088	0.0058
Moon	5291-09-01 02:52 G	3653801.44	3653801.62	3653801.85	0.0088	0.0057 *
Earth	5292-09-02 14:24 G	3654168.87	3654169.10	3654169.34	0.0088	0.0039
Moon	5292-09-02 13:55 G	3654168.87	3654169.08	3654169.33	0.0088	0.0039 *
Moon	5293-09-05 02:09 G	3654536.34	3654536.59	3654536.87	0.0088	0.0020
Earth	5293-09-05 03:21 G	3654536.39	3654536.64	3654536.90	0.0088	0.0019 *
Earth	5294-09-07 16:33 G	3654903.93	3654904.19	3654904.46	0.0088	0.0001
Moon	5294-09-07 18:28 G	3654904.01	3654904.27	3654904.52	0.0088	0.0002 *
Moon	5295-09-10 02:38 G	3655271.35	3655271.61	3655271.87	0.0088	0.0020
Earth	5295-09-10 05:45 G	3655271.49	3655271.74	3655272.00	0.0088	0.0020 *
Earth	5296-09-11 18:43 G	3655639.05	3655639.28	3655639.52	0.0088	0.0039
Moon	5296-09-11 22:04 G	3655639.19	3655639.42	3655639.66	0.0088	0.0038 *
Moon	5297-09-14 04:04 G	3656006.49	3656006.67	3656006.87	0.0089	0.0060
Earth	5297-09-14 07:26 G	3656006.64	3656006.81	3656007.03	0.0089	0.0059 *
Earth	5298-09-16 20:38 G	3656374.26	3656374.36	3656374.50	0.0089	0.0078
Moon	5298-09-17 00:28 G	3656374.39	3656374.52	3656374.66	0.0089	0.0076 *
Mars	5315-12-21 12:28 G	3662677.84	3662678.02	3662678.25	0.0089	0.0062
Mars	5317-11-14 01:26 G	3663371.28	3663371.56	3663371.84	0.0089	0.0023
Mercury	5331-07-24 18:57 G	3668372.27	3668372.29	3668372.34	0.0089	0.0087

Mercury	5331-10-20 20:52 G	3668460.31	3668460.37	3668460.44	0.0089	0.0079
Mercury	5332-01-16 22:19 G	3668548.36	3668548.43	3668548.53	0.0089	0.0072
Mercury	5332-04-14 00:00 G	3668636.41	3668636.50	3668636.61	0.0089	0.0064
Mercury	5332-07-11 01:40 G	3668724.47	3668724.57	3668724.69	0.0089	0.0057
Mercury	5332-10-07 03:21 G	3668812.53	3668812.64	3668812.77	0.0089	0.0049
Mercury	5333-01-03 05:02 G	3668900.59	3668900.71	3668900.84	0.0089	0.0042
Mercury	5333-04-01 06:43 G	3668988.65	3668988.78	3668988.91	0.0089	0.0034
Mercury	5333-06-28 08:24 G	3669076.72	3669076.85	3669076.98	0.0089	0.0027
Mercury	5333-09-24 10:04 G	3669164.78	3669164.92	3669165.05	0.0089	0.0020
Mercury	5333-12-21 11:31 G	3669252.84	3669252.98	3669253.12	0.0089	0.0012
Venus	5334-03-06 14:38 G	3669328.06	3669328.11	3669328.21	0.0089	0.0084
Mercury	5334-03-19 13:11 G	3669340.91	3669341.05	3669341.19	0.0089	0.0005
Mercury	5334-06-15 14:52 G	3669428.98	3669429.12	3669429.26	0.0089	0.0004
Mercury	5334-09-11 16:19 G	3669517.04	3669517.18	3669517.32	0.0089	0.0010
Venus	5334-10-18 04:19 G	3669553.55	3669553.68	3669553.85	0.0089	0.0065
Mercury	5334-12-08 17:45 G	3669605.11	3669605.24	3669605.38	0.0089	0.0018
Mercury	5335-03-06 19:26 G	3669693.18	3669693.31	3669693.45	0.0089	0.0024
Venus	5335-05-31 17:45 G	3669779.07	3669779.24	3669779.44	0.0089	0.0047
Mercury	5335-06-02 20:52 G	3669781.25	3669781.37	3669781.51	0.0089	0.0032
Mercury	5335-08-29 22:33 G	3669869.32	3669869.44	3669869.57	0.0089	0.0039
Mercury	5335-11-26 00:14 G	3669957.39	3669957.51	3669957.63	0.0089	0.0046
Venus	5336-01-12 07:11 G	3670004.60	3670004.80	3670005.02	0.0089	0.0029
Mercury	5336-02-22 01:40 G	3670045.46	3670045.57	3670045.68	0.0089	0.0053
Mercury	5336-05-20 02:52 G	3670133.53	3670133.62	3670133.74	0.0089	0.0061
Mercury	5336-08-16 04:33 G	3670221.61	3670221.69	3670221.79	0.0089	0.0067
Venus	5336-08-24 20:38 G	3670230.15	3670230.36	3670230.59	0.0089	0.0012
Mercury	5336-11-12 06:00 G	3670309.69	3670309.75	3670309.84	0.0089	0.0075
Mercury	5337-02-08 07:26 G	3670397.77	3670397.81	3670397.88	0.0089	0.0082
Venus	5337-04-07 10:04 G	3670455.71	3670455.92	3670456.14	0.0089	0.0007
Mercury	5337-05-07 09:07 G	3670485.87	3670485.88	3670485.91	0.0089	0.0088

Venus	5337-11-18 23:16 G	3670681.27	3670681.47	3670681.69	0.0089	0.0025
Venus	5338-07-02 12:28 G	3670906.84	3670907.02	3670907.23	0.0089	0.0043
Venus	5339-02-13 01:55 G	3671132.43	3671132.58	3671132.75	0.0089	0.0061
Venus	5339-09-26 15:21 G	3671358.05	3671358.14	3671358.25	0.0089	0.0079
Moon	5372-02-29 17:31 G	3683202.12	3683202.23	3683202.38	0.0089	0.0075
Earth	5372-02-29 20:38 G	3683202.25	3683202.36	3683202.53	0.0089	0.0074 *
Earth	5373-03-03 07:11 G	3683569.62	3683569.80	3683570.02	0.0089	0.0055
Moon	5373-03-03 09:21 G	3683569.71	3683569.89	3683570.13	0.0089	0.0053 *
Moon	5374-03-05 17:02 G	3683936.99	3683937.21	3683937.44	0.0089	0.0037
Earth	5374-03-05 17:45 G	3683937.03	3683937.24	3683937.49	0.0089	0.0036 *
Earth	5375-03-08 04:19 G	3684304.44	3684304.68	3684304.94	0.0089	0.0017
Moon	5375-03-08 04:33 G	3684304.44	3684304.69	3684304.96	0.0089	0.0016 *
Earth	5376-03-09 14:52 G	3684671.87	3684672.12	3684672.37	0.0089	0.0002
Moon	5376-03-09 16:19 G	3684671.93	3684672.18	3684672.43	0.0089	0.0001 *
Moon	5377-03-11 22:33 G	3685039.20	3685039.44	3685039.70	0.0089	0.0023
Earth	5377-03-12 01:11 G	3685039.31	3685039.55	3685039.80	0.0089	0.0021 *
Earth	5378-03-14 11:02 G	3685406.75	3685406.96	3685407.20	0.0089	0.0040
Moon	5378-03-14 14:09 G	3685406.87	3685407.09	3685407.32	0.0089	0.0039 *
Moon	5379-03-16 17:31 G	3685774.07	3685774.23	3685774.44	0.0089	0.0061
Earth	5379-03-16 21:21 G	3685774.22	3685774.39	3685774.59	0.0089	0.0059 *
Earth	5380-03-18 07:26 G	3686141.71	3686141.81	3686141.95	0.0089	0.0078
Moon	5380-03-18 10:33 G	3686141.84	3686141.94	3686142.10	0.0089	0.0077 *
Mars	5397-10-14 19:11 G	3692561.06	3692561.30	3692561.61	0.0088	0.0055
Mars	5399-09-11 07:11 G	3693257.54	3693257.80	3693258.12	0.0088	0.0048
Mercury	5414-01-10 14:38 G	3698492.07	3698492.11	3698492.16	0.0088	0.0084
Mercury	5414-04-08 17:16 G	3698580.14	3698580.22	3698580.32	0.0088	0.0076
Mercury	5414-07-05 20:09 G	3698668.24	3698668.34	3698668.46	0.0088	0.0067
Mercury	5414-10-01 22:48 G	3698756.34	3698756.45	3698756.60	0.0088	0.0059
Mercury	5414-12-29 01:55 G	3698844.44	3698844.58	3698844.73	0.0088	0.0050
Mercury	5415-03-27 04:48 G	3698932.55	3698932.70	3698932.86	0.0088	0.0041

Mercury	5415-06-23 07:26 G	3699020.66	3699020.81	3699020.99	0.0088	0.0033
Mercury	5415-09-19 10:33 G	3699108.77	3699108.94	3699109.12	0.0088	0.0024
Mercury	5415-12-16 13:26 G	3699196.89	3699197.06	3699197.24	0.0088	0.0015
Mercury	5416-03-13 16:33 G	3699285.01	3699285.19	3699285.37	0.0088	0.0006
Venus	5416-04-22 13:26 G	3699324.97	3699325.06	3699325.19	0.0088	0.0076
Mercury	5416-06-09 19:26 G	3699373.13	3699373.31	3699373.49	0.0088	0.0003
Mercury	5416-09-05 22:19 G	3699461.25	3699461.43	3699461.61	0.0088	0.0012
Mercury	5416-12-03 01:11 G	3699549.38	3699549.55	3699549.73	0.0088	0.0021
Venus	5416-12-04 01:55 G	3699550.44	3699550.58	3699550.76	0.0088	0.0059
Mercury	5417-03-01 04:04 G	3699637.51	3699637.67	3699637.85	0.0088	0.0030
Mercury	5417-05-28 06:57 G	3699725.64	3699725.79	3699725.96	0.0088	0.0039
Venus	5417-07-17 14:38 G	3699775.93	3699776.11	3699776.32	0.0088	0.0042
Mercury	5417-08-24 09:50 G	3699813.77	3699813.91	3699814.08	0.0088	0.0048
Mercury	5417-11-20 12:43 G	3699901.91	3699902.03	3699902.19	0.0088	0.0057
Mercury	5418-02-16 15:50 G	3699990.05	3699990.16	3699990.29	0.0088	0.0066
Venus	5418-02-28 03:21 G	3700001.44	3700001.64	3700001.86	0.0088	0.0025
Mercury	5418-05-15 18:43 G	3700078.21	3700078.28	3700078.39	0.0088	0.0075
Mercury	5418-08-11 21:50 G	3700166.37	3700166.41	3700166.48	0.0088	0.0084
Venus	5418-10-11 16:04 G	3700226.96	3700227.17	3700227.40	0.0088	0.0008
Venus	5419-05-25 04:48 G	3700452.48	3700452.70	3700452.92	0.0088	0.0010
Venus	5420-01-05 17:16 G	3700678.02	3700678.22	3700678.44	0.0088	0.0027
Venus	5420-08-18 05:45 G	3700903.56	3700903.74	3700903.94	0.0088	0.0044
Venus	5421-03-31 18:28 G	3701129.13	3701129.27	3701129.44	0.0088	0.0061
Venus	5421-11-12 07:11 G	3701354.72	3701354.80	3701354.91	0.0088	0.0078
Saturn	5432-09-15 10:19 G	3705314.35	3705314.93	3705315.62	0.0088	0.0039
Earth	5454-08-30 21:35 G	3713334.35	3713334.40	3713334.47	0.0088	0.0086
Earth	5455-09-02 10:04 G	3713701.77	3713701.92	3713702.11	0.0088	0.0067
Moon	5455-09-02 10:04 G	3713701.77	3713701.92	3713702.12	0.0088	0.0064 *
Moon	5456-09-03 21:21 G	3714069.19	3714069.39	3714069.62	0.0088	0.0053
Earth	5456-09-03 22:48 G	3714069.26	3714069.45	3714069.69	0.0088	0.0049 *

Earth	5457-09-06 12:00 G	3714436.77	3714437.00	3714437.26	0.0088	0.0029
Moon	5457-09-06 14:52 G	3714436.88	3714437.12	3714437.37	0.0088	0.0025 *
Moon	5458-09-08 22:04 G	3714804.17	3714804.42	3714804.69	0.0088	0.0015
Earth	5458-09-09 01:26 G	3714804.30	3714804.56	3714804.82	0.0088	0.0010 *
Earth	5459-09-11 14:09 G	3715171.83	3715172.09	3715172.36	0.0088	0.0010
Moon	5459-09-11 18:00 G	3715172.00	3715172.25	3715172.51	0.0088	0.0014 *
Moon	5460-09-12 23:45 G	3715539.26	3715539.49	3715539.75	0.0088	0.0025
Earth	5460-09-13 03:21 G	3715539.40	3715539.64	3715539.89	0.0088	0.0029 *
Earth	5461-09-15 16:33 G	3715906.97	3715907.19	3715907.41	0.0088	0.0048
Moon	5461-09-15 19:26 G	3715907.12	3715907.31	3715907.55	0.0088	0.0053 *
Moon	5462-09-18 03:07 G	3716274.47	3716274.63	3716274.83	0.0089	0.0063
Earth	5462-09-18 05:16 G	3716274.58	3716274.72	3716274.91	0.0089	0.0068 *
Earth	5463-09-20 18:14 G	3716642.24	3716642.26	3716642.35	0.0089	0.0087
Mars	5481-06-30 18:43 G	3723135.01	3723135.28	3723135.57	0.0089	0.0015
Mars	5483-05-25 06:43 G	3723828.63	3723828.78	3723828.97	0.0089	0.0071
Mercury	5496-04-20 19:11 G	3728543.25	3728543.30	3728543.35	0.0089	0.0083
Mercury	5496-07-17 20:38 G	3728631.29	3728631.36	3728631.44	0.0089	0.0075
Mercury	5496-10-13 22:04 G	3728719.34	3728719.42	3728719.53	0.0089	0.0068
Mercury	5497-01-10 00:00 G	3728807.40	3728807.50	3728807.61	0.0089	0.0060
Mercury	5497-04-08 01:26 G	3728895.46	3728895.56	3728895.68	0.0089	0.0053
Mercury	5497-07-05 03:21 G	3728983.52	3728983.64	3728983.76	0.0089	0.0046
Mercury	5497-10-01 04:48 G	3729071.58	3729071.70	3729071.83	0.0089	0.0038
Mercury	5497-12-28 06:28 G	3729159.64	3729159.77	3729159.91	0.0089	0.0031
Mercury	5498-03-26 08:09 G	3729247.71	3729247.84	3729247.98	0.0089	0.0023
Mercury	5498-06-22 09:35 G	3729335.77	3729335.90	3729336.05	0.0089	0.0017
Mercury	5498-09-18 11:16 G	3729423.83	3729423.97	3729424.11	0.0089	0.0009
Mercury	5498-12-15 12:57 G	3729511.90	3729512.04	3729512.18	0.0089	0.0002
Venus	5499-01-20 15:07 G	3729548.02	3729548.13	3729548.27	0.0089	0.0073
Mercury	5499-03-13 14:38 G	3729599.97	3729600.11	3729600.25	0.0089	0.0006
Mercury	5499-06-09 16:04 G	3729688.04	3729688.17	3729688.31	0.0089	0.0013



Venus	5499-09-03 04:33 G	3729773.53	3729773.69	3729773.88	0.0089	0.0055
Mercury	5499-09-05 17:45 G	3729776.10	3729776.24	3729776.38	0.0089	0.0020
Mercury	5499-12-02 19:11 G	3729864.17	3729864.30	3729864.44	0.0089	0.0028
Mercury	5500-02-28 20:52 G	3729952.24	3729952.37	3729952.50	0.0089	0.0035
Venus	5500-04-16 18:14 G	3729999.06	3729999.26	3729999.47	0.0089	0.0036
Mercury	5500-05-27 22:19 G	3730040.31	3730040.43	3730040.56	0.0089	0.0042
Mercury	5500-08-23 23:45 G	3730128.39	3730128.49	3730128.62	0.0089	0.0050
Mercury	5500-11-20 01:26 G	3730216.46	3730216.56	3730216.67	0.0089	0.0056
Venus	5500-11-28 07:40 G	3730224.61	3730224.82	3730225.04	0.0089	0.0018
Mercury	5501-02-16 02:52 G	3730304.53	3730304.62	3730304.73	0.0089	0.0064
Mercury	5501-05-15 04:33 G	3730392.61	3730392.69	3730392.78	0.0089	0.0070
Venus	5501-07-11 21:07 G	3730450.16	3730450.38	3730450.60	0.0089	0.0000
Mercury	5501-08-11 06:00 G	3730480.69	3730480.75	3730480.82	0.0089	0.0078
Mercury	5501-11-07 07:26 G	3730568.78	3730568.81	3730568.86	0.0089	0.0085
Venus	5502-02-22 10:19 G	3730675.72	3730675.93	3730676.15	0.0089	0.0018
Venus	5502-10-05 23:31 G	3730901.30	3730901.48	3730901.70	0.0089	0.0037
Venus	5503-05-19 12:43 G	3731126.88	3731127.03	3731127.23	0.0089	0.0055
Venus	5503-12-31 01:55 G	3731352.48	3731352.58	3731352.74	0.0089	0.0073
Earth	5536-03-02 07:55 G	3743102.75	3743102.83	3743102.93	0.0089	0.0082
Moon	5536-03-02 09:50 G	3743102.81	3743102.91	3743103.06	0.0089	0.0079 *
Moon	5537-03-04 17:31 G	3743470.10	3743470.23	3743470.41	0.0089	0.0068
Earth	5537-03-04 18:14 G	3743470.11	3743470.26	3743470.46	0.0089	0.0064 *
Moon	5538-03-07 04:19 G	3743837.46	3743837.68	3743837.93	0.0089	0.0041
Earth	5538-03-07 05:02 G	3743837.51	3743837.71	3743837.94	0.0089	0.0045 *
Earth	5539-03-09 15:35 G	3744204.92	3744205.15	3744205.41	0.0089	0.0026
Moon	5539-03-09 17:02 G	3744204.99	3744205.21	3744205.45	0.0089	0.0030 *
Moon	5540-03-10 23:31 G	3744572.22	3744572.48	3744572.74	0.0089	0.0003
Earth	5540-03-11 02:24 G	3744572.35	3744572.60	3744572.86	0.0089	0.0007 *
Earth	5541-03-13 12:28 G	3744939.78	3744940.02	3744940.28	0.0089	0.0012
Moon	5541-03-13 15:50 G	3744939.92	3744940.16	3744940.42	0.0089	0.0008 *

Moon	5542-03-15 19:11 G	3745307.08	3745307.30	3745307.55	0.0089	0.0035
Earth	5542-03-15 23:02 G	3745307.22	3745307.46	3745307.70	0.0089	0.0030 *
Earth	5543-03-18 09:07 G	3745674.68	3745674.88	3745675.10	0.0089	0.0049
Moon	5543-03-18 12:14 G	3745674.81	3745675.01	3745675.26	0.0089	0.0045 *
Moon	5544-03-19 16:48 G	3746042.08	3746042.20	3746042.37	0.0089	0.0072
Earth	5544-03-19 18:57 G	3746042.16	3746042.29	3746042.48	0.0089	0.0068 *
Earth	5545-03-22 05:45 G	3746409.69	3746409.74	3746409.80	0.0089	0.0086
Moon	5545-03-22 07:11 G	3746409.73	3746409.80	3746409.92	0.0089	0.0082 *
Jupiter	5563-01-11 11:16 G	3752913.56	3752913.97	3752914.44	0.0088	0.0057
Mars	5563-04-26 16:19 G	3753018.84	3753019.18	3753019.53	0.0088	0.0002
Mercury	5578-10-08 13:40 G	3758663.01	3758663.07	3758663.14	0.0088	0.0080
Mercury	5579-01-04 16:19 G	3758751.09	3758751.18	3758751.29	0.0088	0.0072
Mercury	5579-04-02 19:11 G	3758839.19	3758839.30	3758839.43	0.0088	0.0063
Mercury	5579-06-29 21:50 G	3758927.29	3758927.41	3758927.57	0.0088	0.0055
Mercury	5579-09-26 00:57 G	3759015.40	3759015.54	3759015.70	0.0088	0.0046
Mercury	5579-12-23 03:50 G	3759103.51	3759103.66	3759103.83	0.0088	0.0037
Mercury	5580-03-20 06:57 G	3759191.62	3759191.79	3759191.96	0.0088	0.0028
Mercury	5580-06-16 09:35 G	3759279.73	3759279.90	3759280.08	0.0088	0.0020
Venus	5580-07-26 00:43 G	3759319.48	3759319.53	3759319.63	0.0088	0.0083
Mercury	5580-09-12 12:28 G	3759367.85	3759368.02	3759368.21	0.0088	0.0011
Mercury	5580-12-09 15:35 G	3759455.97	3759456.15	3759456.33	0.0088	0.0002
Mercury	5581-03-07 18:28 G	3759544.09	3759544.27	3759544.45	0.0088	0.0007
Venus	5581-03-08 13:26 G	3759544.94	3759545.06	3759545.23	0.0088	0.0066
Mercury	5581-06-03 21:21 G	3759632.22	3759632.39	3759632.57	0.0088	0.0016
Mercury	5581-08-31 00:14 G	3759720.34	3759720.51	3759720.69	0.0088	0.0025
Venus	5581-10-20 02:09 G	3759770.43	3759770.59	3759770.79	0.0088	0.0049
Mercury	5581-11-27 03:07 G	3759808.47	3759808.63	3759808.80	0.0088	0.0034
Mercury	5582-02-23 06:00 G	3759896.60	3759896.75	3759896.92	0.0088	0.0043
Mercury	5582-05-22 08:52 G	3759984.74	3759984.87	3759985.03	0.0088	0.0052
Venus	5582-06-02 14:52 G	3759995.93	3759996.12	3759996.34	0.0088	0.0032

Mercury	5582-08-18 11:45 G	3760072.88	3760072.99	3760073.14	0.0088	0.0061
Mercury	5582-11-14 14:52 G	3760161.02	3760161.12	3760161.24	0.0088	0.0070
Venus	5583-01-14 03:50 G	3760221.44	3760221.66	3760221.87	0.0088	0.0014
Mercury	5583-02-10 17:45 G	3760249.18	3760249.24	3760249.34	0.0088	0.0079
Mercury	5583-05-09 21:07 G	3760337.38	3760337.38	3760337.39	0.0088	0.0088
Venus	5583-08-27 16:19 G	3760446.96	3760447.18	3760447.40	0.0088	0.0003
Venus	5584-04-09 05:02 G	3760672.50	3760672.71	3760672.93	0.0088	0.0020
Venus	5584-11-20 17:31 G	3760898.04	3760898.23	3760898.44	0.0088	0.0037
Venus	5585-07-04 06:14 G	3761123.59	3761123.76	3761123.94	0.0088	0.0054
Venus	5586-02-14 18:57 G	3761349.16	3761349.29	3761349.42	0.0088	0.0071
Moon	5619-09-02 16:48 G	3773602.08	3773602.20	3773602.37	0.0088	0.0075
Earth	5619-09-02 18:57 G	3773602.18	3773602.29	3773602.45	0.0088	0.0076 *
Earth	5620-09-04 08:09 G	3773969.65	3773969.84	3773970.05	0.0088	0.0057
Moon	5620-09-04 10:48 G	3773969.77	3773969.95	3773970.16	0.0088	0.0058 *
Moon	5621-09-06 17:16 G	3774336.99	3774337.22	3774337.47	0.0088	0.0037
Earth	5621-09-06 20:52 G	3774337.15	3774337.37	3774337.62	0.0088	0.0038 *
Earth	5622-09-09 09:50 G	3774704.66	3774704.91	3774705.17	0.0088	0.0019
Moon	5622-09-09 13:11 G	3774704.81	3774705.05	3774705.32	0.0088	0.0020 *
Moon	5623-09-11 19:26 G	3775072.06	3775072.31	3775072.57	0.0088	0.0001
Earth	5623-09-11 23:02 G	3775072.20	3775072.46	3775072.72	0.0088	0.0001 *
Earth	5624-09-13 11:45 G	3775439.75	3775439.99	3775440.26	0.0088	0.0019
Moon	5624-09-13 14:24 G	3775439.84	3775440.10	3775440.37	0.0088	0.0019 *
Moon	5625-09-15 23:02 G	3775807.25	3775807.46	3775807.70	0.0088	0.0038
Earth	5625-09-16 01:11 G	3775807.31	3775807.55	3775807.79	0.0088	0.0038 *
Earth	5626-09-18 14:09 G	3776174.90	3776175.09	3776175.30	0.0089	0.0057
Moon	5626-09-18 14:38 G	3776174.93	3776175.11	3776175.34	0.0089	0.0058 *
Earth	5627-09-21 03:07 G	3776542.51	3776542.63	3776542.78	0.0089	0.0076
Moon	5627-09-21 04:04 G	3776542.55	3776542.67	3776542.81	0.0089	0.0076 *
Mars	5645-02-14 09:21 G	3782898.67	3782898.89	3782899.13	0.0089	0.0053
Mars	5647-01-08 22:19 G	3783592.18	3783592.43	3783592.72	0.0089	0.0032

Mercury	5660-10-20 17:16 G	3788626.19	3788626.22	3788626.25	0.0089	0.0087
Mercury	5661-01-16 18:43 G	3788714.22	3788714.28	3788714.35	0.0089	0.0079
Mercury	5661-04-14 20:09 G	3788802.27	3788802.34	3788802.44	0.0089	0.0073
Mercury	5661-07-11 22:04 G	3788890.33	3788890.42	3788890.52	0.0089	0.0065
Mercury	5661-10-07 23:31 G	3788978.39	3788978.48	3788978.60	0.0089	0.0058
Mercury	5662-01-04 01:26 G	3789066.44	3789066.56	3789066.68	0.0089	0.0050
Mercury	5662-04-02 02:52 G	3789154.51	3789154.62	3789154.75	0.0089	0.0043
Mercury	5662-06-29 04:48 G	3789242.57	3789242.70	3789242.83	0.0089	0.0035
Mercury	5662-09-25 06:14 G	3789330.63	3789330.76	3789330.90	0.0089	0.0028
Mercury	5662-12-22 07:55 G	3789418.69	3789418.83	3789418.97	0.0089	0.0020
Mercury	5663-03-20 09:35 G	3789506.76	3789506.90	3789507.04	0.0089	0.0013
Venus	5663-04-25 01:40 G	3789542.50	3789542.57	3789542.69	0.0089	0.0081
Mercury	5663-06-16 11:02 G	3789594.83	3789594.96	3789595.11	0.0089	0.0006
Mercury	5663-09-12 12:43 G	3789682.89	3789683.03	3789683.17	0.0089	0.0002
Venus	5663-12-06 15:07 G	3789767.99	3789768.13	3789768.31	0.0089	0.0063
Mercury	5663-12-09 14:24 G	3789770.96	3789771.10	3789771.24	0.0089	0.0009
Mercury	5664-03-06 15:50 G	3789859.03	3789859.16	3789859.30	0.0089	0.0017
Mercury	5664-06-02 17:31 G	3789947.10	3789947.23	3789947.37	0.0089	0.0024
Venus	5664-07-19 04:33 G	3789993.52	3789993.69	3789993.90	0.0089	0.0044
Mercury	5664-08-29 18:57 G	3790035.17	3790035.29	3790035.43	0.0089	0.0031
Mercury	5664-11-25 20:24 G	3790123.24	3790123.35	3790123.49	0.0089	0.0039
Mercury	5665-02-21 22:04 G	3790211.31	3790211.42	3790211.55	0.0089	0.0045
Venus	5665-03-01 18:14 G	3790219.05	3790219.26	3790219.48	0.0089	0.0026
Mercury	5665-05-20 23:31 G	3790299.38	3790299.48	3790299.60	0.0089	0.0053
Mercury	5665-08-17 01:11 G	3790387.45	3790387.55	3790387.66	0.0089	0.0060
Venus	5665-10-13 07:55 G	3790444.61	3790444.83	3790445.05	0.0089	0.0008
Mercury	5665-11-13 02:52 G	3790475.53	3790475.62	3790475.71	0.0089	0.0067
Mercury	5666-02-09 04:19 G	3790563.61	3790563.68	3790563.76	0.0089	0.0074
Mercury	5666-05-08 05:45 G	3790651.69	3790651.74	3790651.80	0.0089	0.0081
Venus	5666-05-26 21:07 G	3790670.17	3790670.38	3790670.61	0.0089	0.0011

Mercury	5666-08-04 07:26 G	3790739.79	3790739.81	3790739.83	0.0089	0.0088
Venus	5667-01-07 10:33 G	3790895.73	3790895.94	3790896.15	0.0089	0.0029
Venus	5667-08-20 23:45 G	3791121.31	3791121.49	3791121.69	0.0089	0.0047
Venus	5668-04-02 13:11 G	3791346.91	3791347.05	3791347.21	0.0089	0.0065
Venus	5668-11-14 02:09 G	3791572.53	3791572.59	3791572.69	0.0089	0.0083
Moon	5700-03-02 18:28 G	3803003.27	3803003.27	3803003.30	0.0089	0.0089
Moon	5701-03-05 04:04 G	3803370.56	3803370.67	3803370.84	0.0089	0.0076
Earth	5701-03-05 05:31 G	3803370.59	3803370.73	3803370.88	0.0089	0.0072 *
Earth	5702-03-07 15:50 G	3803737.97	3803738.16	3803738.38	0.0089	0.0054
Moon	5702-03-07 18:14 G	3803738.07	3803738.26	3803738.47	0.0089	0.0051 *
Moon	5703-03-09 23:31 G	3804105.26	3804105.48	3804105.73	0.0089	0.0038
Earth	5703-03-10 02:38 G	3804105.38	3804105.61	3804105.85	0.0089	0.0035 *
Earth	5704-03-11 12:57 G	3804472.80	3804473.04	3804473.30	0.0089	0.0017
Moon	5704-03-11 16:33 G	3804472.95	3804473.19	3804473.44	0.0089	0.0015 *
Moon	5705-03-13 20:09 G	3804840.09	3804840.34	3804840.60	0.0089	0.0002
Earth	5705-03-13 23:45 G	3804840.24	3804840.49	3804840.74	0.0089	0.0002 *
Earth	5706-03-16 09:35 G	3805207.67	3805207.90	3805208.16	0.0089	0.0021
Moon	5706-03-16 12:57 G	3805207.80	3805208.04	3805208.30	0.0089	0.0022 *
Moon	5707-03-18 17:45 G	3805575.02	3805575.24	3805575.47	0.0089	0.0037
Earth	5707-03-18 20:09 G	3805575.12	3805575.34	3805575.58	0.0089	0.0039 *
Earth	5708-03-20 06:00 G	3805942.58	3805942.75	3805942.97	0.0089	0.0058
Moon	5708-03-20 06:57 G	3805942.62	3805942.79	3805943.01	0.0089	0.0060 *
Earth	5709-03-22 16:19 G	3806310.07	3806310.18	3806310.33	0.0089	0.0076
Moon	5709-03-22 16:33 G	3806310.07	3806310.19	3806310.33	0.0089	0.0074 *
Mars	5726-12-09 00:14 G	3812780.23	3812780.51	3812780.83	0.0088	0.0046
Mars	5728-11-04 11:31 G	3813476.76	3813476.98	3813477.29	0.0088	0.0058
Jupiter	5729-03-20 07:26 G	3813612.35	3813612.81	3813613.30	0.0088	0.0049
Mercury	5743-04-09 09:50 G	3818745.87	3818745.91	3818745.95	0.0088	0.0085
Mercury	5743-07-06 12:14 G	3818833.94	3818834.01	3818834.11	0.0088	0.0077
Mercury	5743-10-02 15:21 G	3818922.03	3818922.14	3818922.25	0.0088	0.0068

Mercury	5743-12-29 18:00 G	3819010.13	3819010.25	3819010.39	0.0088	0.0060
Mercury	5744-03-26 20:52 G	3819098.24	3819098.37	3819098.52	0.0088	0.0051
Mercury	5744-06-23 00:00 G	3819186.34	3819186.50	3819186.65	0.0088	0.0042
Mercury	5744-09-19 02:38 G	3819274.45	3819274.61	3819274.78	0.0088	0.0034
Mercury	5744-12-16 05:31 G	3819362.57	3819362.73	3819362.91	0.0088	0.0025
Mercury	5745-03-14 08:24 G	3819450.68	3819450.85	3819451.03	0.0088	0.0016
Mercury	5745-06-10 11:31 G	3819538.80	3819538.98	3819539.16	0.0088	0.0007
Venus	5745-06-11 00:43 G	3819539.42	3819539.53	3819539.66	0.0088	0.0073
Mercury	5745-09-06 14:24 G	3819626.92	3819627.10	3819627.28	0.0088	0.0002
Mercury	5745-12-03 17:02 G	3819715.04	3819715.21	3819715.40	0.0088	0.0011
Venus	5746-01-22 13:11 G	3819764.89	3819765.05	3819765.23	0.0088	0.0056
Mercury	5746-03-01 20:09 G	3819803.16	3819803.34	3819803.52	0.0088	0.0019
Mercury	5746-05-28 23:02 G	3819891.29	3819891.46	3819891.63	0.0088	0.0028
Mercury	5746-08-25 01:55 G	3819979.42	3819979.58	3819979.75	0.0088	0.0037
Venus	5746-09-05 01:40 G	3819990.39	3819990.57	3819990.78	0.0088	0.0039
Mercury	5746-11-21 04:48 G	3820067.56	3820067.70	3820067.86	0.0088	0.0046
Mercury	5747-02-17 07:55 G	3820155.69	3820155.83	3820155.97	0.0088	0.0055
Venus	5747-04-18 14:38 G	3820215.91	3820216.11	3820216.33	0.0088	0.0022
Mercury	5747-05-16 10:48 G	3820243.83	3820243.95	3820244.08	0.0088	0.0064
Mercury	5747-08-12 13:40 G	3820331.98	3820332.07	3820332.18	0.0088	0.0073
Mercury	5747-11-08 16:48 G	3820420.15	3820420.20	3820420.27	0.0088	0.0082
Venus	5747-11-30 03:21 G	3820441.42	3820441.64	3820441.86	0.0088	0.0005
Venus	5748-07-12 15:50 G	3820666.95	3820667.16	3820667.38	0.0088	0.0013
Venus	5749-02-23 04:19 G	3820892.48	3820892.68	3820892.90	0.0088	0.0030
Venus	5749-10-06 17:02 G	3821118.03	3821118.21	3821118.40	0.0088	0.0047
Venus	5750-05-20 05:16 G	3821343.60	3821343.72	3821343.89	0.0088	0.0065
Venus	5750-12-31 18:00 G	3821569.19	3821569.25	3821569.35	0.0088	0.0082
Earth	5783-09-03 02:38 G	3833502.56	3833502.61	3833502.71	0.0088	0.0085
Moon	5783-09-03 06:14 G	3833502.76	3833502.76	3833502.78	0.0088	0.0088
Moon	5784-09-04 12:00 G	3833869.84	3833870.00	3833870.22	0.0088	0.0062

Earth	5784-09-04 16:04 G	3833870.01	3833870.17	3833870.35	0.0088	0.0066 *
Earth	5785-09-07 04:33 G	3834237.49	3834237.69	3834237.93	0.0088	0.0047
Moon	5785-09-07 08:24 G	3834237.65	3834237.85	3834238.07	0.0088	0.0052 *
Moon	5786-09-09 14:52 G	3834604.89	3834605.12	3834605.38	0.0088	0.0025
Earth	5786-09-09 17:45 G	3834605.00	3834605.24	3834605.50	0.0088	0.0029 *
Earth	5787-09-12 06:43 G	3834972.52	3834972.78	3834973.04	0.0088	0.0010
Moon	5787-09-12 09:07 G	3834972.62	3834972.88	3834973.15	0.0088	0.0014 *
Moon	5788-09-13 18:43 G	3835340.04	3835340.28	3835340.54	0.0088	0.0014
Earth	5788-09-13 19:40 G	3835340.06	3835340.32	3835340.59	0.0088	0.0009 *
Moon	5789-09-16 08:24 G	3835707.60	3835707.85	3835708.12	0.0088	0.0024
Earth	5789-09-16 08:38 G	3835707.62	3835707.86	3835708.12	0.0088	0.0028 *
Earth	5790-09-18 21:21 G	3836075.18	3836075.39	3836075.63	0.0088	0.0047
Moon	5790-09-18 22:19 G	3836075.24	3836075.43	3836075.65	0.0088	0.0051 *
Moon	5791-09-21 07:40 G	3836442.65	3836442.82	3836443.04	0.0089	0.0061
Earth	5791-09-21 10:19 G	3836442.78	3836442.93	3836443.13	0.0089	0.0066 *
Earth	5792-09-22 23:45 G	3836810.42	3836810.49	3836810.59	0.0089	0.0084
Moon	5792-09-23 02:52 G	3836810.62	3836810.62	3836810.64	0.0089	0.0088
Mars	5810-08-26 13:40 G	3843355.79	3843356.07	3843356.36	0.0089	0.0007
Mars	5812-07-20 02:09 G	3844049.48	3844049.59	3844049.76	0.0089	0.0078
Mercury	5825-07-19 16:48 G	3848797.16	3848797.20	3848797.25	0.0089	0.0084
Mercury	5825-10-15 18:14 G	3848885.20	3848885.26	3848885.34	0.0089	0.0077
Mercury	5826-01-11 20:09 G	3848973.25	3848973.34	3848973.43	0.0089	0.0069
Mercury	5826-04-09 21:35 G	3849061.31	3849061.40	3849061.51	0.0089	0.0062
Mercury	5826-07-06 23:16 G	3849149.37	3849149.47	3849149.59	0.0089	0.0054
Mercury	5826-10-03 00:57 G	3849237.43	3849237.54	3849237.67	0.0089	0.0047
Mercury	5826-12-30 02:38 G	3849325.49	3849325.61	3849325.74	0.0089	0.0039
Mercury	5827-03-28 04:19 G	3849413.55	3849413.68	3849413.81	0.0089	0.0032
Mercury	5827-06-24 06:00 G	3849501.61	3849501.75	3849501.89	0.0089	0.0024
Venus	5827-07-29 12:00 G	3849536.99	3849537.00	3849537.06	0.0089	0.0088
Mercury	5827-09-20 07:26 G	3849589.68	3849589.81	3849589.96	0.0089	0.0018

Mercury	5827-12-17 09:07 G	3849677.74	3849677.88	3849678.02	0.0089	0.0010
Venus	5828-03-11 01:11 G	3849762.44	3849762.55	3849762.71	0.0089	0.0071
Mercury	5828-03-14 10:48 G	3849765.81	3849765.95	3849766.09	0.0089	0.0003
Mercury	5828-06-10 12:28 G	3849853.88	3849854.02	3849854.16	0.0089	0.0005
Mercury	5828-09-06 13:55 G	3849941.95	3849942.08	3849942.22	0.0089	0.0012
Venus	5828-10-22 15:21 G	3849987.96	3849988.14	3849988.32	0.0089	0.0052
Mercury	5828-12-03 15:35 G	3850030.01	3850030.15	3850030.29	0.0089	0.0019
Mercury	5829-03-01 17:16 G	3850118.08	3850118.22	3850118.35	0.0089	0.0027
Mercury	5829-05-28 18:43 G	3850206.15	3850206.28	3850206.41	0.0089	0.0034
Venus	5829-06-05 04:33 G	3850213.49	3850213.69	3850213.90	0.0089	0.0034
Mercury	5829-08-24 20:09 G	3850294.22	3850294.34	3850294.47	0.0089	0.0041
Mercury	5829-11-20 21:35 G	3850382.30	3850382.40	3850382.53	0.0089	0.0049
Venus	5830-01-16 18:00 G	3850439.04	3850439.25	3850439.47	0.0089	0.0016
Mercury	5830-02-16 23:16 G	3850470.37	3850470.47	3850470.59	0.0089	0.0056
Mercury	5830-05-16 00:43 G	3850558.44	3850558.53	3850558.64	0.0089	0.0063
Mercury	5830-08-12 02:24 G	3850646.52	3850646.60	3850646.69	0.0089	0.0070
Venus	5830-08-30 07:26 G	3850664.59	3850664.81	3850665.03	0.0089	0.0003
Mercury	5830-11-08 04:04 G	3850734.60	3850734.67	3850734.74	0.0089	0.0077
Mercury	5831-02-04 05:31 G	3850822.69	3850822.73	3850822.78	0.0089	0.0084
Venus	5831-04-12 20:38 G	3850890.16	3850890.36	3850890.59	0.0089	0.0022
Venus	5831-11-24 10:04 G	3851115.74	3851115.92	3851116.13	0.0089	0.0040
Venus	5832-07-06 23:31 G	3851341.32	3851341.48	3851341.66	0.0089	0.0058
Venus	5833-02-17 12:43 G	3851566.93	3851567.03	3851567.16	0.0089	0.0076
Earth	5865-03-05 15:35 G	3863271.07	3863271.15	3863271.27	0.0089	0.0081
Moon	5865-03-05 17:45 G	3863271.15	3863271.24	3863271.38	0.0089	0.0078 *
Moon	5866-03-07 22:48 G	3863638.29	3863638.45	3863638.64	0.0089	0.0066
Earth	5866-03-08 02:09 G	3863638.43	3863638.59	3863638.79	0.0089	0.0063 *
Earth	5867-03-10 12:57 G	3864005.82	3864006.04	3864006.26	0.0089	0.0044
Moon	5867-03-10 16:04 G	3864005.96	3864006.17	3864006.41	0.0089	0.0041 *
Moon	5868-03-11 19:55 G	3864373.10	3864373.33	3864373.58	0.0089	0.0030



Earth	5868-03-11 23:31 G	3864373.24	3864373.48	3864373.73	0.0089	0.0026 *
Earth	5869-03-14 09:50 G	3864740.66	3864740.91	3864741.17	0.0089	0.0008
Moon	5869-03-14 12:43 G	3864740.77	3864741.03	3864741.29	0.0089	0.0004 *
Moon	5870-03-16 18:43 G	3865108.04	3865108.28	3865108.53	0.0089	0.0008
Earth	5870-03-16 20:24 G	3865108.11	3865108.35	3865108.61	0.0089	0.0011 *
Earth	5871-03-19 06:57 G	3865475.55	3865475.79	3865476.03	0.0089	0.0029
Moon	5871-03-19 07:40 G	3865475.59	3865475.82	3865476.08	0.0089	0.0033 *
Earth	5872-03-20 16:48 G	3865843.01	3865843.20	3865843.44	0.0089	0.0048
Moon	5872-03-20 18:00 G	3865843.04	3865843.25	3865843.47	0.0089	0.0044 *
Moon	5873-03-23 01:11 G	3866210.41	3866210.55	3866210.74	0.0089	0.0069
Earth	5873-03-23 03:07 G	3866210.48	3866210.63	3866210.82	0.0089	0.0066 *
Earth	5874-03-25 13:11 G	3866578.00	3866578.05	3866578.16	0.0089	0.0084
Moon	5874-03-25 15:50 G	3866578.08	3866578.16	3866578.29	0.0089	0.0080 *
Mars	5892-06-18 18:14 G	3873237.92	3873238.26	3873238.61	0.0088	0.0009
Mercury	5908-01-06 08:24 G	3878916.80	3878916.85	3878916.92	0.0088	0.0082
Mercury	5908-04-03 11:02 G	3879004.88	3879004.96	3879005.07	0.0088	0.0074
Mercury	5908-06-30 13:55 G	3879092.97	3879093.08	3879093.21	0.0088	0.0065
Mercury	5908-09-26 17:02 G	3879181.07	3879181.21	3879181.34	0.0088	0.0056
Mercury	5908-12-23 19:26 G	3879269.18	3879269.31	3879269.47	0.0088	0.0048
Mercury	5909-03-21 22:33 G	3879357.28	3879357.44	3879357.60	0.0088	0.0039
Mercury	5909-06-18 01:26 G	3879445.40	3879445.56	3879445.73	0.0088	0.0030
Mercury	5909-09-14 04:04 G	3879533.51	3879533.67	3879533.86	0.0088	0.0022
Venus	5909-09-14 11:02 G	3879533.90	3879533.96	3879534.06	0.0088	0.0081
Mercury	5909-12-11 07:11 G	3879621.62	3879621.80	3879621.98	0.0088	0.0013
Mercury	5910-03-09 10:04 G	3879709.74	3879709.92	3879710.10	0.0088	0.0004
Venus	5910-04-27 23:45 G	3879759.36	3879759.49	3879759.66	0.0088	0.0064
Mercury	5910-06-05 12:57 G	3879797.86	3879798.04	3879798.22	0.0088	0.0005
Mercury	5910-09-01 15:50 G	3879885.99	3879886.16	3879886.34	0.0088	0.0014
Mercury	5910-11-28 18:43 G	3879974.11	3879974.28	3879974.46	0.0088	0.0023
Venus	5910-12-09 12:28 G	3879984.85	3879985.02	3879985.22	0.0088	0.0047

Mercury	5911-02-24 21:35 G	3880062.24	3880062.40	3880062.58	0.0088	0.0032
Mercury	5911-05-24 00:43 G	3880150.37	3880150.53	3880150.69	0.0088	0.0040
Venus	5911-07-23 01:26 G	3880210.35	3880210.56	3880210.77	0.0088	0.0029
Mercury	5911-08-20 03:35 G	3880238.50	3880238.65	3880238.80	0.0088	0.0049
Mercury	5911-11-16 06:43 G	3880326.64	3880326.78	3880326.91	0.0088	0.0058
Mercury	5912-02-12 09:35 G	3880414.79	3880414.90	3880415.02	0.0088	0.0067
Venus	5912-03-04 14:09 G	3880435.87	3880436.09	3880436.31	0.0088	0.0012
Mercury	5912-05-10 12:00 G	3880502.94	3880503.00	3880503.11	0.0088	0.0077
Mercury	5912-08-06 15:07 G	3880591.11	3880591.13	3880591.19	0.0088	0.0086
Venus	5912-10-16 02:38 G	3880661.40	3880661.61	3880661.84	0.0088	0.0006
Venus	5913-05-29 15:07 G	3880886.93	3880887.13	3880887.35	0.0088	0.0023
Venus	5914-01-10 03:35 G	3881112.47	3881112.65	3881112.86	0.0088	0.0040
Venus	5914-08-23 16:19 G	3881338.02	3881338.18	3881338.36	0.0088	0.0057
Venus	5915-04-06 05:16 G	3881563.60	3881563.72	3881563.83	0.0088	0.0074
Earth	5948-09-05 23:02 G	3893770.34	3893770.46	3893770.62	0.0088	0.0075
Moon	5948-09-06 02:24 G	3893770.48	3893770.60	3893770.77	0.0088	0.0074 *
Moon	5949-09-08 09:21 G	3894137.72	3894137.89	3894138.10	0.0088	0.0059
Earth	5949-09-08 12:00 G	3894137.82	3894138.00	3894138.22	0.0088	0.0057 *
Earth	5950-09-11 00:43 G	3894505.31	3894505.53	3894505.78	0.0088	0.0038
Moon	5950-09-11 01:55 G	3894505.36	3894505.58	3894505.85	0.0088	0.0037 *
Moon	5951-09-13 13:11 G	3894872.82	3894873.05	3894873.31	0.0088	0.0021
Earth	5951-09-13 13:55 G	3894872.83	3894873.08	3894873.34	0.0088	0.0020 *
Moon	5952-09-15 02:09 G	3895240.32	3895240.59	3895240.86	0.0088	0.0001
Earth	5952-09-15 03:07 G	3895240.37	3895240.63	3895240.89	0.0088	0.0001 *
Earth	5953-09-17 15:35 G	3895607.90	3895608.15	3895608.41	0.0088	0.0018
Moon	5953-09-17 17:31 G	3895608.00	3895608.23	3895608.50	0.0088	0.0017 *
Moon	5954-09-20 01:55 G	3895975.34	3895975.58	3895975.83	0.0088	0.0037
Earth	5954-09-20 04:19 G	3895975.46	3895975.68	3895975.94	0.0088	0.0037 *
Earth	5955-09-22 17:16 G	3896343.03	3896343.22	3896343.44	0.0089	0.0055
Moon	5955-09-22 21:07 G	3896343.19	3896343.38	3896343.59	0.0089	0.0054 *

Moon	5956-09-24 02:38 G	3896710.50	3896710.61	3896710.78	0.0089	0.0075
Earth	5956-09-24 06:57 G	3896710.64	3896710.79	3896710.93	0.0089	0.0073 *
Mars	5974-04-12 03:50 G	3903119.44	3903119.66	3903119.93	0.0089	0.0048
Mars	5976-03-05 16:04 G	3903812.92	3903813.17	3903813.44	0.0089	0.0039
Mercury	5990-01-18 14:38 G	3908880.10	3908880.11	3908880.13	0.0089	0.0089
Mercury	5990-04-16 16:04 G	3908968.12	3908968.17	3908968.24	0.0089	0.0081
Mercury	5990-07-13 18:00 G	3909056.17	3909056.25	3909056.33	0.0089	0.0074
Mercury	5990-10-09 19:26 G	3909144.23	3909144.31	3909144.41	0.0089	0.0066
Mercury	5991-01-05 21:21 G	3909232.28	3909232.39	3909232.50	0.0089	0.0059
Mercury	5991-04-03 22:48 G	3909320.34	3909320.45	3909320.57	0.0089	0.0052
Mercury	5991-07-01 00:28 G	3909408.40	3909408.52	3909408.65	0.0089	0.0044
Mercury	5991-09-27 02:09 G	3909496.47	3909496.59	3909496.72	0.0089	0.0037
Mercury	5991-12-24 03:50 G	3909584.53	3909584.66	3909584.80	0.0089	0.0029
Mercury	5992-03-21 05:31 G	3909672.59	3909672.73	3909672.87	0.0089	0.0022
Venus	5992-06-13 11:16 G	3909756.89	3909756.97	3909757.10	0.0089	0.0079
Mercury	5992-06-17 07:11 G	3909760.66	3909760.80	3909760.94	0.0089	0.0015
Mercury	5992-09-13 08:38 G	3909848.72	3909848.86	3909849.01	0.0089	0.0008
Mercury	5992-12-10 10:19 G	3909936.79	3909936.93	3909937.07	0.0089	0.0001
Venus	5993-01-25 00:43 G	3909982.39	3909982.53	3909982.71	0.0089	0.0061
Mercury	5993-03-08 12:00 G	3910024.86	3910025.00	3910025.14	0.0089	0.0007
Mercury	5993-06-04 13:26 G	3910112.93	3910113.06	3910113.20	0.0089	0.0015
Mercury	5993-08-31 15:07 G	3910200.99	3910201.13	3910201.27	0.0089	0.0022
Venus	5993-09-07 14:38 G	3910207.92	3910208.11	3910208.30	0.0089	0.0042
Mercury	5993-11-27 16:33 G	3910289.06	3910289.19	3910289.33	0.0089	0.0029
Mercury	5994-02-23 18:14 G	3910377.14	3910377.26	3910377.39	0.0089	0.0036
Venus	5994-04-21 03:50 G	3910433.45	3910433.66	3910433.88	0.0089	0.0024
Mercury	5994-05-22 19:40 G	3910465.21	3910465.32	3910465.45	0.0089	0.0044
Mercury	5994-08-18 21:21 G	3910553.28	3910553.39	3910553.51	0.0089	0.0051
Mercury	5994-11-14 23:02 G	3910641.35	3910641.46	3910641.56	0.0089	0.0058
Venus	5994-12-02 17:16 G	3910659.00	3910659.22	3910659.44	0.0089	0.0005

Mercury	5995-02-11 00:14 G	3910729.43	3910729.51	3910729.62	0.0089	0.0065
Mercury	5995-05-10 01:40 G	3910817.51	3910817.57	3910817.67	0.0089	0.0073
Venus	5995-07-16 06:28 G	3910884.56	3910884.77	3910884.99	0.0089	0.0013
Mercury	5995-08-06 03:21 G	3910905.59	3910905.64	3910905.71	0.0089	0.0079
Mercury	5995-11-02 04:48 G	3910993.68	3910993.70	3910993.75	0.0089	0.0087
Venus	5996-02-26 19:40 G	3911110.13	3911110.32	3911110.54	0.0089	0.0032
Venus	5996-10-09 09:07 G	3911335.71	3911335.88	3911336.08	0.0089	0.0050
Venus	5997-05-22 22:33 G	3911561.31	3911561.44	3911561.60	0.0089	0.0068
Venus	5998-01-03 12:00 G	3911786.95	3911787.00	3911787.07	0.0089	0.0086

# 7TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 7th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	6029-03-05 22:33 G		3923171.38	3923171.44	3923171.50	0.0089	0.0086	
Earth	6030-03-08 11:45 G		3923538.86	3923538.99	3923539.16	0.0089	0.0072	
Moon	6030-03-08 15:50 G		3923539.03	3923539.16	3923539.30	0.0089	0.0075	*
Moon	6031-03-10 19:40 G		3923906.12	3923906.32	3923906.53	0.0089	0.0050	
Earth	6031-03-10 22:19 G		3923906.25	3923906.43	3923906.65	0.0089	0.0054	*
Earth	6032-03-12 08:38 G		3924273.65	3924273.86	3924274.11	0.0089	0.0036	
Moon	6032-03-12 11:31 G		3924273.76	3924273.98	3924274.23	0.0089	0.0038	*
Moon	6033-03-14 18:00 G		3924641.01	3924641.25	3924641.50	0.0089	0.0014	
Earth	6033-03-14 19:11 G		3924641.07	3924641.30	3924641.56	0.0089	0.0018	*
Moon	6034-03-17 05:45 G		3925008.48	3925008.74	3925009.01	0.0089	0.0003	

Earth	6034-03-17 06:00 G	3925008.50	3925008.75	3925009.00	0.0089	0.0001	*
Earth	6035-03-19 16:04 G	3925375.93	3925376.17	3925376.43	0.0089	0.0019	
Moon	6035-03-19 17:02 G	3925375.98	3925376.21	3925376.45	0.0089	0.0022	*
Moon	6036-03-21 00:00 G	3925743.28	3925743.50	3925743.76	0.0089	0.0034	
Earth	6036-03-21 02:38 G	3925743.39	3925743.61	3925743.85	0.0089	0.0037	*
Earth	6037-03-23 12:57 G	3926110.85	3926111.04	3926111.25	0.0089	0.0055	
Moon	6037-03-23 15:50 G	3926110.99	3926111.16	3926111.37	0.0089	0.0059	*
Moon	6038-03-25 19:26 G	3926478.19	3926478.31	3926478.49	0.0089	0.0071	
Earth	6038-03-25 23:16 G	3926478.34	3926478.47	3926478.63	0.0089	0.0073	*
Mars	6056-01-31 23:31 G	3932999.19	3932999.48	3932999.81	0.0088	0.0039	
Mars	6057-12-28 10:48 G	3933695.75	3933695.95	3933696.23	0.0088	0.0064	
Mercury	6072-10-02 06:28 G	3939087.72	3939087.77	3939087.86	0.0088	0.0080	
Mercury	6072-12-29 09:35 G	3939175.80	3939175.90	3939176.01	0.0088	0.0071	
Mercury	6073-03-27 12:14 G	3939263.90	3939264.01	3939264.15	0.0088	0.0063	
Mercury	6073-06-23 15:07 G	3939352.00	3939352.13	3939352.28	0.0088	0.0054	
Mercury	6073-09-19 18:14 G	3939440.11	3939440.26	3939440.41	0.0088	0.0045	
Mercury	6073-12-16 20:52 G	3939528.21	3939528.37	3939528.54	0.0088	0.0037	
Mercury	6074-03-14 23:45 G	3939616.33	3939616.49	3939616.66	0.0088	0.0028	
Mercury	6074-06-11 02:38 G	3939704.44	3939704.61	3939704.79	0.0088	0.0019	
Venus	6074-07-30 09:50 G	3939753.80	3939753.91	3939754.04	0.0088	0.0072	
Mercury	6074-09-07 05:31 G	3939792.55	3939792.73	3939792.91	0.0088	0.0010	
Mercury	6074-12-04 08:24 G	3939880.67	3939880.85	3939881.03	0.0088	0.0002	
Mercury	6075-03-02 11:16 G	3939968.79	3939968.97	3939969.15	0.0088	0.0007	
Venus	6075-03-12 22:19 G	3939979.28	3939979.43	3939979.62	0.0088	0.0055	
Mercury	6075-05-29 14:09 G	3940056.92	3940057.09	3940057.27	0.0088	0.0016	
Mercury	6075-08-25 17:02 G	3940145.04	3940145.21	3940145.39	0.0088	0.0025	
Venus	6075-10-24 11:02 G	3940204.78	3940204.96	3940205.18	0.0088	0.0038	
Mercury	6075-11-21 19:55 G	3940233.17	3940233.33	3940233.50	0.0088	0.0034	
Mercury	6076-02-17 22:48 G	3940321.30	3940321.45	3940321.62	0.0088	0.0043	
Mercury	6076-05-16 01:40 G	3940409.44	3940409.57	3940409.73	0.0088	0.0052	

Venus	6076-06-06 00:00 G	3940430.29	3940430.50	3940430.72	0.0088	0.0020
Mercury	6076-08-12 04:33 G	3940497.58	3940497.69	3940497.84	0.0088	0.0061
Mercury	6076-11-08 07:26 G	3940585.72	3940585.81	3940585.94	0.0088	0.0070
Venus	6077-01-17 12:43 G	3940655.81	3940656.03	3940656.25	0.0088	0.0003
Mercury	6077-02-04 10:33 G	3940673.88	3940673.94	3940674.03	0.0088	0.0079
Mercury	6077-05-03 13:55 G	3940762.08	3940762.08	3940762.08	0.0088	0.0088
Venus	6077-08-31 01:11 G	3940881.34	3940881.55	3940881.77	0.0088	0.0015
Venus	6078-04-13 13:55 G	3941106.89	3941107.08	3941107.29	0.0088	0.0032
Venus	6078-11-25 02:38 G	3941332.43	3941332.61	3941332.80	0.0088	0.0049
Venus	6079-07-08 14:52 G	3941558.00	3941558.12	3941558.28	0.0088	0.0067
Venus	6080-02-19 03:21 G	3941783.60	3941783.64	3941783.73	0.0088	0.0084
Moon	6112-09-06 03:07 G	3953670.61	3953670.63	3953670.68	0.0088	0.0087
Earth	6112-09-06 05:16 G	3953670.65	3953670.72	3953670.81	0.0088	0.0084 *
Earth	6113-09-08 18:00 G	3954038.09	3954038.25	3954038.44	0.0088	0.0066
Moon	6113-09-08 18:57 G	3954038.12	3954038.29	3954038.50	0.0088	0.0062 *
Earth	6114-09-11 06:57 G	3954405.59	3954405.79	3954406.03	0.0088	0.0048
Moon	6114-09-11 07:26 G	3954405.63	3954405.81	3954406.04	0.0088	0.0052 *
Moon	6115-09-13 18:43 G	3954773.03	3954773.28	3954773.55	0.0088	0.0026
Earth	6115-09-13 20:09 G	3954773.10	3954773.34	3954773.60	0.0088	0.0029 *
Earth	6116-09-15 09:07 G	3955140.62	3955140.88	3955141.14	0.0088	0.0011
Moon	6116-09-15 11:31 G	3955140.73	3955140.98	3955141.24	0.0088	0.0015 *
Moon	6117-09-17 18:28 G	3955508.02	3955508.27	3955508.54	0.0088	0.0012
Earth	6117-09-17 22:04 G	3955508.17	3955508.42	3955508.69	0.0088	0.0008 *
Earth	6118-09-20 11:02 G	3955875.71	3955875.96	3955876.21	0.0088	0.0026
Moon	6118-09-20 14:24 G	3955875.86	3955876.10	3955876.36	0.0088	0.0022 *
Moon	6119-09-22 20:09 G	3956243.14	3956243.34	3956243.57	0.0088	0.0049
Earth	6119-09-23 00:14 G	3956243.28	3956243.51	3956243.74	0.0088	0.0044 *
Earth	6120-09-24 12:43 G	3956610.86	3956611.03	3956611.23	0.0089	0.0063
Moon	6120-09-24 15:50 G	3956610.97	3956611.16	3956611.37	0.0089	0.0058 *
Moon	6121-09-26 23:31 G	3956978.42	3956978.48	3956978.56	0.0089	0.0085

Earth	6121-09-27 01:26 G	3956978.48	3956978.56	3956978.69	0.0089	0.0081 *
Mars	6137-11-26 15:50 G	3962883.12	3962883.16	3962883.22	0.0089	0.0087
Mars	6139-10-21 06:00 G	3963576.47	3963576.75	3963577.04	0.0089	0.0003
Mars	6141-09-13 17:45 G	3964270.16	3964270.24	3964270.36	0.0089	0.0083
Mercury	6154-10-16 13:40 G	3969051.05	3969051.07	3969051.12	0.0089	0.0087
Mercury	6155-01-12 15:50 G	3969139.09	3969139.16	3969139.22	0.0089	0.0079
Mercury	6155-04-10 17:16 G	3969227.14	3969227.22	3969227.31	0.0089	0.0071
Mercury	6155-07-07 18:43 G	3969315.20	3969315.28	3969315.39	0.0089	0.0064
Mercury	6155-10-03 20:38 G	3969403.25	3969403.36	3969403.47	0.0089	0.0056
Mercury	6155-12-30 22:04 G	3969491.31	3969491.42	3969491.55	0.0089	0.0050
Mercury	6156-03-28 00:00 G	3969579.38	3969579.50	3969579.63	0.0089	0.0042
Mercury	6156-06-24 01:26 G	3969667.44	3969667.56	3969667.70	0.0089	0.0035
Venus	6156-09-15 21:21 G	3969751.35	3969751.39	3969751.45	0.0089	0.0087
Mercury	6156-09-20 03:21 G	3969755.50	3969755.64	3969755.77	0.0089	0.0027
Mercury	6156-12-17 04:48 G	3969843.57	3969843.70	3969843.84	0.0089	0.0020
Mercury	6157-03-15 06:28 G	3969931.63	3969931.77	3969931.91	0.0089	0.0012
Venus	6157-04-29 10:48 G	3969976.82	3969976.95	3969977.10	0.0089	0.0069
Mercury	6157-06-11 08:09 G	3970019.70	3970019.84	3970019.98	0.0089	0.0005
Mercury	6157-09-07 09:50 G	3970107.77	3970107.91	3970108.05	0.0089	0.0003
Mercury	6157-12-04 11:16 G	3970195.84	3970195.97	3970196.12	0.0089	0.0010
Venus	6157-12-11 00:00 G	3970202.33	3970202.50	3970202.69	0.0089	0.0051
Mercury	6158-03-02 12:57 G	3970283.90	3970284.04	3970284.18	0.0089	0.0017
Mercury	6158-05-29 14:24 G	3970371.97	3970372.10	3970372.24	0.0089	0.0025
Venus	6158-07-24 13:11 G	3970427.86	3970428.05	3970428.27	0.0089	0.0033
Mercury	6158-08-25 16:04 G	3970460.04	3970460.17	3970460.31	0.0089	0.0032
Mercury	6158-11-21 17:45 G	3970548.11	3970548.24	3970548.37	0.0089	0.0039
Mercury	6159-02-17 18:57 G	3970636.19	3970636.29	3970636.42	0.0089	0.0047
Venus	6159-03-07 02:52 G	3970653.40	3970653.62	3970653.84	0.0089	0.0014
Mercury	6159-05-16 20:38 G	3970724.26	3970724.36	3970724.48	0.0089	0.0053
Mercury	6159-08-12 22:04 G	3970812.33	3970812.42	3970812.54	0.0089	0.0061

Venus	6159-10-18 16:19 G	3970878.96	3970879.18	3970879.40	0.0089	0.0004
Mercury	6159-11-08 23:45 G	3970900.41	3970900.49	3970900.59	0.0089	0.0068
Mercury	6160-02-05 01:11 G	3970988.49	3970988.55	3970988.64	0.0089	0.0075
Mercury	6160-05-03 02:52 G	3971076.57	3971076.62	3971076.68	0.0089	0.0082
Venus	6160-05-31 05:31 G	3971104.52	3971104.73	3971104.95	0.0089	0.0023
Mercury	6160-07-30 04:19 G	3971164.68	3971164.68	3971164.71	0.0089	0.0089
Venus	6161-01-11 18:28 G	3971330.10	3971330.27	3971330.49	0.0089	0.0042
Venus	6161-08-25 07:55 G	3971555.68	3971555.83	3971556.01	0.0089	0.0060
Venus	6162-04-07 21:21 G	3971781.30	3971781.39	3971781.51	0.0089	0.0078
Moon	6194-03-08 18:00 G	3983439.16	3983439.25	3983439.40	0.0089	0.0078
Earth	6194-03-08 21:07 G	3983439.30	3983439.38	3983439.52	0.0089	0.0081 *
Earth	6195-03-11 07:40 G	3983806.66	3983806.82	3983807.02	0.0089	0.0063
Moon	6195-03-11 09:35 G	3983806.74	3983806.90	3983807.09	0.0089	0.0065 *
Moon	6196-03-12 17:31 G	3984174.02	3984174.23	3984174.45	0.0089	0.0042
Earth	6196-03-12 18:14 G	3984174.06	3984174.26	3984174.49	0.0089	0.0045 *
Moon	6197-03-15 04:33 G	3984541.45	3984541.69	3984541.95	0.0089	0.0030
Earth	6197-03-15 04:48 G	3984541.47	3984541.70	3984541.95	0.0089	0.0027 *
Earth	6198-03-17 15:07 G	3984908.88	3984909.13	3984909.39	0.0089	0.0009
Moon	6198-03-17 17:02 G	3984908.97	3984909.21	3984909.46	0.0089	0.0007 *
Moon	6199-03-19 23:02 G	3985276.20	3985276.46	3985276.72	0.0089	0.0007
Earth	6199-03-20 01:40 G	3985276.32	3985276.57	3985276.82	0.0089	0.0009 *
Earth	6200-03-22 11:45 G	3985643.76	3985643.99	3985644.24	0.0089	0.0027
Moon	6200-03-22 14:52 G	3985643.90	3985644.12	3985644.37	0.0089	0.0031 *
Moon	6201-03-24 18:43 G	3986011.06	3986011.28	3986011.51	0.0089	0.0042
Earth	6201-03-24 22:04 G	3986011.22	3986011.42	3986011.65	0.0089	0.0045 *
Earth	6202-03-27 08:09 G	3986378.69	3986378.84	3986379.04	0.0089	0.0063
Moon	6202-03-27 11:45 G	3986378.83	3986378.99	3986379.17	0.0089	0.0066 *
Moon	6203-03-29 15:50 G	3986746.06	3986746.16	3986746.30	0.0089	0.0077
Earth	6203-03-29 18:57 G	3986746.19	3986746.29	3986746.40	0.0089	0.0080 *
Mars	6219-09-16 03:35 G	3992760.64	3992760.65	3992760.74	0.0088	0.0088



Mars	6221-08-12 15:35 G	3993456.82	3993457.15	3993457.50	0.0088	0.0015
Mercury	6237-04-04 02:09 G	3999170.57	3999170.59	3999170.64	0.0088	0.0086
Mercury	6237-07-01 05:16 G	3999258.64	3999258.72	3999258.80	0.0088	0.0077
Mercury	6237-09-27 07:40 G	3999346.73	3999346.82	3999346.94	0.0088	0.0069
Mercury	6237-12-24 10:48 G	3999434.82	3999434.95	3999435.08	0.0088	0.0060
Mercury	6238-03-22 13:26 G	3999522.93	3999523.06	3999523.21	0.0088	0.0052
Mercury	6238-06-18 16:19 G	3999611.03	3999611.18	3999611.34	0.0088	0.0043
Mercury	6238-09-14 18:57 G	3999699.14	3999699.29	3999699.46	0.0088	0.0035
Venus	6238-11-02 19:11 G	3999748.24	3999748.30	3999748.41	0.0088	0.0081
Mercury	6238-12-11 21:50 G	3999787.25	3999787.41	3999787.59	0.0088	0.0026
Mercury	6239-03-10 00:57 G	3999875.36	3999875.54	3999875.71	0.0088	0.0017
Mercury	6239-06-06 03:35 G	3999963.48	3999963.65	3999963.84	0.0088	0.0009
Venus	6239-06-16 08:24 G	3999973.70	3999973.85	3999974.00	0.0088	0.0063
Mercury	6239-09-02 06:43 G	4000051.60	4000051.78	4000051.96	0.0088	0.0002
Mercury	6239-11-29 09:35 G	4000139.72	4000139.90	4000140.07	0.0088	0.0009
Venus	6240-01-27 20:38 G	4000199.19	4000199.36	4000199.56	0.0088	0.0046
Mercury	6240-02-25 12:14 G	4000227.84	4000228.01	4000228.19	0.0088	0.0018
Mercury	6240-05-23 15:07 G	4000315.97	4000316.13	4000316.31	0.0088	0.0027
Mercury	6240-08-19 18:00 G	4000404.10	4000404.25	4000404.42	0.0088	0.0036
Venus	6240-09-09 09:21 G	4000424.69	4000424.89	4000425.11	0.0088	0.0029
Mercury	6240-11-15 20:52 G	4000492.23	4000492.37	4000492.54	0.0088	0.0045
Mercury	6241-02-11 23:45 G	4000580.36	4000580.49	4000580.65	0.0088	0.0054
Venus	6241-04-22 22:19 G	4000650.22	4000650.43	4000650.65	0.0088	0.0011
Mercury	6241-05-11 02:38 G	4000668.50	4000668.61	4000668.75	0.0088	0.0063
Mercury	6241-08-07 05:31 G	4000756.65	4000756.73	4000756.85	0.0088	0.0072
Mercury	6241-11-03 08:38 G	4000844.81	4000844.86	4000844.94	0.0088	0.0081
Venus	6241-12-04 11:02 G	4000875.74	4000875.96	4000876.18	0.0088	0.0006
Venus	6242-07-17 23:16 G	4001101.27	4001101.47	4001101.70	0.0088	0.0024
Venus	6243-02-28 12:00 G	4001326.82	4001327.00	4001327.21	0.0088	0.0041
Venus	6243-10-12 00:43 G	4001552.37	4001552.53	4001552.70	0.0088	0.0058

Venus	6244-05-24 13:11 G	4001777.96	4001778.05	4001778.18	0.0088	0.0076
Earth	6277-09-08 22:48 G	4013938.34	4013938.45	4013938.61	0.0088	0.0076
Moon	6277-09-09 00:00 G	4013938.37	4013938.50	4013938.65	0.0088	0.0073 *
Moon	6278-09-11 09:21 G	4014305.72	4014305.89	4014306.11	0.0088	0.0061
Earth	6278-09-11 12:00 G	4014305.82	4014306.00	4014306.22	0.0088	0.0057 *
Earth	6279-09-14 00:57 G	4014673.32	4014673.54	4014673.79	0.0088	0.0039
Moon	6279-09-14 03:50 G	4014673.44	4014673.66	4014673.91	0.0088	0.0037 *
Moon	6280-09-15 10:33 G	4015040.70	4015040.94	4015041.21	0.0088	0.0024
Earth	6280-09-15 13:55 G	4015040.84	4015041.08	4015041.35	0.0088	0.0022 *
Earth	6281-09-18 03:07 G	4015408.37	4015408.63	4015408.89	0.0088	0.0003
Moon	6281-09-18 06:57 G	4015408.53	4015408.79	4015409.05	0.0088	0.0001 *
Moon	6282-09-20 13:11 G	4015775.79	4015776.05	4015776.30	0.0088	0.0013
Earth	6282-09-20 16:04 G	4015775.92	4015776.17	4015776.44	0.0088	0.0015 *
Earth	6283-09-23 04:48 G	4016143.47	4016143.70	4016143.96	0.0088	0.0034
Moon	6283-09-23 07:55 G	4016143.59	4016143.83	4016144.09	0.0088	0.0035 *
Moon	6284-09-24 16:04 G	4016510.98	4016511.17	4016511.40	0.0089	0.0050
Earth	6284-09-24 17:31 G	4016511.04	4016511.23	4016511.46	0.0089	0.0052 *
Earth	6285-09-27 06:28 G	4016878.63	4016878.77	4016878.96	0.0089	0.0070
Moon	6285-09-27 06:57 G	4016878.65	4016878.79	4016878.97	0.0089	0.0071 *
Earth	6286-09-29 19:26 G	4017246.30	4017246.31	4017246.38	0.0089	0.0088
Moon	6286-09-29 19:55 G	4017246.30	4017246.33	4017246.41	0.0089	0.0087 *
Mars	6303-06-07 16:19 G	4023339.94	4023340.18	4023340.44	0.0089	0.0044
Jupiter	6304-08-08 21:21 G	4023768.09	4023768.39	4023768.80	0.0089	0.0065
Mars	6305-05-01 05:45 G	4024033.50	4024033.74	4024034.01	0.0089	0.0042
Mercury	6319-07-15 13:11 G	4029222.01	4029222.05	4029222.09	0.0089	0.0085
Mercury	6319-10-11 14:38 G	4029310.05	4029310.11	4029310.19	0.0089	0.0077
Mercury	6320-01-07 16:33 G	4029398.10	4029398.19	4029398.28	0.0089	0.0070
Mercury	6320-04-04 18:00 G	4029486.16	4029486.25	4029486.36	0.0089	0.0063
Mercury	6320-07-01 19:55 G	4029574.22	4029574.33	4029574.44	0.0089	0.0055
Mercury	6320-09-27 21:21 G	4029662.28	4029662.39	4029662.52	0.0089	0.0048

Mercury	6320-12-24 23:02 G	4029750.34	4029750.46	4029750.59	0.0089	0.0040
Mercury	6321-03-23 00:43 G	4029838.40	4029838.53	4029838.67	0.0089	0.0033
Mercury	6321-06-19 02:24 G	4029926.47	4029926.60	4029926.74	0.0089	0.0025
Venus	6321-08-02 19:40 G	4029971.22	4029971.32	4029971.43	0.0089	0.0078
Mercury	6321-09-15 04:04 G	4030014.53	4030014.67	4030014.81	0.0089	0.0018
Mercury	6321-12-12 05:45 G	4030102.60	4030102.74	4030102.88	0.0089	0.0010
Mercury	6322-03-10 07:26 G	4030190.67	4030190.81	4030190.95	0.0089	0.0003
Venus	6322-03-16 08:52 G	4030196.71	4030196.87	4030197.04	0.0089	0.0060
Mercury	6322-06-06 08:52 G	4030278.73	4030278.87	4030279.02	0.0089	0.0005
Mercury	6322-09-02 10:33 G	4030366.80	4030366.94	4030367.08	0.0089	0.0012
Venus	6322-10-27 22:04 G	4030422.24	4030422.42	4030422.63	0.0089	0.0042
Mercury	6322-11-29 12:14 G	4030454.87	4030455.01	4030455.15	0.0089	0.0019
Mercury	6323-02-25 13:40 G	4030542.94	4030543.07	4030543.21	0.0089	0.0026
Mercury	6323-05-24 15:07 G	4030631.01	4030631.13	4030631.27	0.0089	0.0034
Venus	6323-06-10 11:31 G	4030647.78	4030647.98	4030648.21	0.0089	0.0023
Mercury	6323-08-20 16:48 G	4030719.08	4030719.20	4030719.33	0.0089	0.0041
Mercury	6323-11-16 18:28 G	4030807.16	4030807.27	4030807.39	0.0089	0.0048
Venus	6324-01-22 01:11 G	4030873.33	4030873.55	4030873.77	0.0089	0.0005
Mercury	6324-02-12 19:55 G	4030895.23	4030895.33	4030895.45	0.0089	0.0055
Mercury	6324-05-10 21:35 G	4030983.30	4030983.40	4030983.50	0.0089	0.0062
Mercury	6324-08-06 23:16 G	4031071.38	4031071.47	4031071.55	0.0089	0.0069
Venus	6324-09-03 14:24 G	4031098.89	4031099.10	4031099.32	0.0089	0.0014
Mercury	6324-11-03 00:28 G	4031159.46	4031159.52	4031159.60	0.0089	0.0076
Mercury	6325-01-30 01:55 G	4031247.55	4031247.58	4031247.65	0.0089	0.0084
Venus	6325-04-17 03:35 G	4031324.45	4031324.65	4031324.87	0.0089	0.0032
Venus	6325-11-28 16:48 G	4031550.04	4031550.20	4031550.40	0.0089	0.0051
Venus	6326-07-12 06:14 G	4031775.63	4031775.76	4031775.91	0.0089	0.0069
Venus	6327-02-22 19:11 G	4032001.28	4032001.30	4032001.37	0.0089	0.0088
Moon	6358-03-10 07:11 G	4043339.76	4043339.80	4043339.89	0.0089	0.0086
Earth	6359-03-12 16:04 G	4043707.04	4043707.17	4043707.34	0.0089	0.0072

Moon	6359-03-12 16:04 G	4043707.06	4043707.17	4043707.31	0.0089	0.0076	*
Moon	6360-03-14 01:55 G	4044074.36	4044074.58	4044074.80	0.0089	0.0050	
Earth	6360-03-14 02:52 G	4044074.43	4044074.62	4044074.83	0.0089	0.0054	*
Earth	6361-03-16 12:57 G	4044441.83	4044442.04	4044442.29	0.0089	0.0037	
Moon	6361-03-16 15:07 G	4044441.91	4044442.13	4044442.35	0.0089	0.0040	*
Moon	6362-03-18 20:24 G	4044809.10	4044809.35	4044809.61	0.0089	0.0015	
Earth	6362-03-18 23:31 G	4044809.24	4044809.48	4044809.74	0.0089	0.0019	*
Earth	6363-03-21 10:04 G	4045176.66	4045176.92	4045177.17	0.0089	0.0001	
Moon	6363-03-21 13:26 G	4045176.81	4045177.06	4045177.31	0.0089	0.0005	*
Moon	6364-03-22 16:33 G	4045543.96	4045544.19	4045544.45	0.0089	0.0021	
Earth	6364-03-22 20:09 G	4045544.11	4045544.34	4045544.60	0.0089	0.0017	*
Earth	6365-03-25 06:14 G	4045911.55	4045911.76	4045912.02	0.0089	0.0035	
Moon	6365-03-25 09:50 G	4045911.67	4045911.91	4045912.16	0.0089	0.0030	*
Moon	6366-03-27 14:24 G	4046278.93	4046279.10	4046279.32	0.0089	0.0056	
Earth	6366-03-27 16:48 G	4046279.01	4046279.20	4046279.42	0.0089	0.0052	*
Earth	6367-03-30 02:52 G	4046646.49	4046646.62	4046646.80	0.0089	0.0070	
Moon	6367-03-30 04:33 G	4046646.53	4046646.69	4046646.88	0.0089	0.0066	*
Earth	6368-03-31 13:26 G	4047014.03	4047014.06	4047014.13	0.0089	0.0087	
Mars	6385-03-26 18:28 G	4053217.95	4053218.27	4053218.59	0.0088	0.0035	
Mars	6387-02-21 05:02 G	4053914.51	4053914.71	4053914.96	0.0088	0.0067	
Mercury	6401-12-31 00:28 G	4059341.48	4059341.52	4059341.58	0.0088	0.0084	
Mercury	6402-03-29 03:07 G	4059429.56	4059429.63	4059429.73	0.0088	0.0076	
Mercury	6402-06-25 06:00 G	4059517.65	4059517.75	4059517.87	0.0088	0.0067	
Mercury	6402-09-21 08:38 G	4059605.74	4059605.86	4059606.00	0.0088	0.0059	
Mercury	6402-12-18 11:31 G	4059693.84	4059693.98	4059694.13	0.0088	0.0050	
Mercury	6403-03-16 14:09 G	4059781.95	4059782.09	4059782.26	0.0088	0.0042	
Mercury	6403-06-12 17:02 G	4059870.06	4059870.21	4059870.38	0.0088	0.0033	
Mercury	6403-09-08 20:09 G	4059958.17	4059958.34	4059958.51	0.0088	0.0024	
Venus	6403-09-18 16:48 G	4059968.11	4059968.20	4059968.35	0.0088	0.0073	
Mercury	6403-12-05 22:48 G	4060046.28	4060046.45	4060046.63	0.0088	0.0016	

Mercury	6404-03-03 01:40 G	4060134.40	4060134.57	4060134.75	0.0088	0.0007
Venus	6404-05-01 06:00 G	4060193.59	4060193.75	4060193.93	0.0088	0.0055
Mercury	6404-05-30 04:33 G	4060222.51	4060222.69	4060222.87	0.0088	0.0002
Mercury	6404-08-26 07:26 G	4060310.64	4060310.81	4060310.99	0.0088	0.0011
Mercury	6404-11-22 10:19 G	4060398.76	4060398.93	4060399.11	0.0088	0.0020
Venus	6404-12-12 18:28 G	4060419.09	4060419.27	4060419.49	0.0088	0.0038
Mercury	6405-02-18 12:57 G	4060486.88	4060487.04	4060487.22	0.0088	0.0029
Mercury	6405-05-17 16:04 G	4060575.01	4060575.17	4060575.34	0.0088	0.0037
Venus	6405-07-26 07:26 G	4060644.60	4060644.81	4060645.03	0.0088	0.0020
Mercury	6405-08-13 18:57 G	4060663.14	4060663.29	4060663.45	0.0088	0.0046
Mercury	6405-11-09 21:50 G	4060751.28	4060751.41	4060751.56	0.0088	0.0055
Mercury	6406-02-06 00:43 G	4060839.42	4060839.53	4060839.66	0.0088	0.0064
Venus	6406-03-08 20:09 G	4060870.12	4060870.34	4060870.56	0.0088	0.0003
Mercury	6406-05-05 03:50 G	4060927.57	4060927.66	4060927.76	0.0088	0.0073
Mercury	6406-08-01 06:43 G	4061015.73	4061015.78	4061015.85	0.0088	0.0082
Venus	6406-10-20 08:38 G	4061095.65	4061095.86	4061096.09	0.0088	0.0015
Venus	6407-06-02 21:21 G	4061321.19	4061321.39	4061321.60	0.0088	0.0032
Venus	6408-01-14 09:50 G	4061546.74	4061546.91	4061547.10	0.0088	0.0050
Venus	6408-08-26 22:33 G	4061772.31	4061772.44	4061772.59	0.0088	0.0067
Venus	6409-04-09 10:48 G	4061997.92	4061997.95	4061998.04	0.0088	0.0085
Moon	6441-09-09 00:28 G	4073838.51	4073838.52	4073838.60	0.0088	0.0088
Earth	6441-09-09 03:21 G	4073838.59	4073838.64	4073838.74	0.0088	0.0085 *
Earth	6442-09-11 16:33 G	4074206.03	4074206.19	4074206.37	0.0088	0.0067
Moon	6442-09-11 19:55 G	4074206.17	4074206.33	4074206.52	0.0088	0.0064 *
Moon	6443-09-14 01:55 G	4074573.38	4074573.58	4074573.80	0.0088	0.0052
Earth	6443-09-14 05:02 G	4074573.52	4074573.71	4074573.96	0.0088	0.0050 *
Earth	6444-09-15 18:14 G	4074941.03	4074941.26	4074941.52	0.0088	0.0031
Moon	6444-09-15 21:50 G	4074941.17	4074941.41	4074941.67	0.0088	0.0028 *
Moon	6445-09-18 04:48 G	4075308.44	4075308.70	4075308.95	0.0088	0.0017
Earth	6445-09-18 07:26 G	4075308.56	4075308.81	4075309.08	0.0088	0.0014 *

Earth	6446-09-20 20:38 G	4075676.10	4075676.36	4075676.62	0.0088	0.0005
Moon	6446-09-20 22:33 G	4075676.17	4075676.44	4075676.70	0.0088	0.0008 *
Moon	6447-09-23 08:09 G	4076043.61	4076043.84	4076044.10	0.0088	0.0020
Earth	6447-09-23 09:21 G	4076043.65	4076043.89	4076044.15	0.0088	0.0023 *
Moon	6448-09-24 22:04 G	4076411.19	4076411.42	4076411.66	0.0088	0.0044
Earth	6448-09-24 22:19 G	4076411.21	4076411.43	4076411.68	0.0088	0.0041 *
Earth	6449-09-27 11:02 G	4076778.79	4076778.96	4076779.18	0.0089	0.0059
Moon	6449-09-27 12:43 G	4076778.86	4076779.03	4076779.26	0.0089	0.0056 *
Moon	6450-09-29 21:50 G	4077146.32	4077146.41	4077146.54	0.0089	0.0080
Earth	6450-09-30 00:28 G	4077146.40	4077146.52	4077146.66	0.0089	0.0076 *
Mars	6467-01-21 01:40 G	4083103.53	4083103.57	4083103.68	0.0089	0.0086
Mars	6468-12-14 14:52 G	4083796.83	4083797.12	4083797.40	0.0089	0.0001
Jupiter	6470-10-04 23:45 G	4084456.01	4084456.49	4084457.02	0.0089	0.0020
Mars	6470-11-08 03:50 G	4084490.60	4084490.66	4084490.77	0.0089	0.0085
Mercury	6484-04-10 12:00 G	4089392.96	4089393.00	4089393.05	0.0089	0.0084
Mercury	6484-07-07 13:40 G	4089481.00	4089481.07	4089481.15	0.0089	0.0076
Mercury	6484-10-03 15:21 G	4089569.06	4089569.14	4089569.24	0.0089	0.0069
Mercury	6484-12-30 17:02 G	4089657.12	4089657.21	4089657.32	0.0089	0.0061
Mercury	6485-03-28 18:57 G	4089745.18	4089745.29	4089745.40	0.0089	0.0054
Mercury	6485-06-24 20:24 G	4089833.24	4089833.35	4089833.48	0.0089	0.0046
Mercury	6485-09-20 22:19 G	4089921.30	4089921.43	4089921.56	0.0089	0.0039
Venus	6485-11-04 04:04 G	4089965.64	4089965.67	4089965.71	0.0089	0.0088
Mercury	6485-12-17 23:45 G	4090009.36	4090009.49	4090009.63	0.0089	0.0032
Mercury	6486-03-16 01:26 G	4090097.43	4090097.56	4090097.70	0.0089	0.0024
Mercury	6486-06-12 03:07 G	4090185.49	4090185.63	4090185.77	0.0089	0.0017
Venus	6486-06-17 17:02 G	4090191.09	4090191.21	4090191.37	0.0089	0.0070
Mercury	6486-09-08 04:48 G	4090273.56	4090273.70	4090273.84	0.0089	0.0009
Mercury	6486-12-05 06:28 G	4090361.63	4090361.77	4090361.91	0.0089	0.0002
Venus	6487-01-29 06:28 G	4090416.61	4090416.77	4090416.97	0.0089	0.0051
Mercury	6487-03-03 08:09 G	4090449.70	4090449.84	4090449.98	0.0089	0.0006

Mercury	6487-05-30 09:35 G	4090537.77	4090537.90	4090538.04	0.0089	0.0013
Mercury	6487-08-26 11:16 G	4090625.83	4090625.97	4090626.11	0.0089	0.0020
Venus	6487-09-11 20:09 G	4090642.14	4090642.34	4090642.55	0.0089	0.0033
Mercury	6487-11-22 12:43 G	4090713.90	4090714.03	4090714.17	0.0089	0.0028
Mercury	6488-02-18 14:24 G	4090801.98	4090802.10	4090802.23	0.0089	0.0035
Venus	6488-04-24 09:35 G	4090867.69	4090867.90	4090868.12	0.0089	0.0014
Mercury	6488-05-16 16:04 G	4090890.05	4090890.17	4090890.29	0.0089	0.0042
Mercury	6488-08-12 17:45 G	4090978.12	4090978.24	4090978.35	0.0089	0.0049
Mercury	6488-11-08 18:57 G	4091066.19	4091066.29	4091066.41	0.0089	0.0056
Venus	6488-12-05 23:02 G	4091093.24	4091093.46	4091093.68	0.0089	0.0004
Mercury	6489-02-04 20:38 G	4091154.27	4091154.36	4091154.46	0.0089	0.0063
Mercury	6489-05-03 22:04 G	4091242.35	4091242.42	4091242.52	0.0089	0.0071
Venus	6489-07-19 12:14 G	4091318.80	4091319.01	4091319.23	0.0089	0.0023
Mercury	6489-07-30 23:45 G	4091330.43	4091330.49	4091330.56	0.0089	0.0077
Mercury	6489-10-27 01:11 G	4091418.52	4091418.55	4091418.60	0.0089	0.0085
Venus	6490-03-02 01:11 G	4091544.37	4091544.55	4091544.76	0.0089	0.0042
Venus	6490-10-13 14:38 G	4091769.96	4091770.11	4091770.29	0.0089	0.0060
Venus	6491-05-27 04:04 G	4091995.58	4091995.67	4091995.79	0.0089	0.0078
Moon	6523-03-12 22:33 G	4103607.33	4103607.44	4103607.57	0.0089	0.0079
Earth	6523-03-12 23:45 G	4103607.41	4103607.49	4103607.62	0.0089	0.0082 *
Earth	6524-03-14 10:19 G	4103974.78	4103974.93	4103975.13	0.0089	0.0064
Moon	6524-03-14 12:57 G	4103974.90	4103975.04	4103975.24	0.0089	0.0065 *
Moon	6525-03-16 18:14 G	4104342.04	4104342.26	4104342.49	0.0089	0.0044
Earth	6525-03-16 21:07 G	4104342.18	4104342.38	4104342.61	0.0089	0.0046 *
Earth	6526-03-19 07:26 G	4104709.58	4104709.81	4104710.06	0.0089	0.0029
Moon	6526-03-19 11:02 G	4104709.74	4104709.96	4104710.21	0.0089	0.0031 *
Moon	6527-03-21 14:52 G	4105076.88	4105077.12	4105077.38	0.0089	0.0010
Earth	6527-03-21 18:14 G	4105077.01	4105077.26	4105077.51	0.0089	0.0011 *
Earth	6528-03-23 04:19 G	4105444.43	4105444.68	4105444.94	0.0089	0.0007
Moon	6528-03-23 07:26 G	4105444.55	4105444.81	4105445.07	0.0089	0.0004 *

Moon	6529-03-25 12:43 G	4105811.80	4105812.03	4105812.28	0.0089	0.0026
Earth	6529-03-25 14:24 G	4105811.87	4105812.10	4105812.36	0.0089	0.0024 *
Earth	6530-03-28 00:57 G	4106179.32	4106179.54	4106179.77	0.0089	0.0041
Moon	6530-03-28 00:57 G	4106179.32	4106179.54	4106179.79	0.0089	0.0040 *
Earth	6531-03-30 10:48 G	4106546.78	4106546.95	4106547.16	0.0089	0.0059
Moon	6531-03-30 11:31 G	4106546.81	4106546.98	4106547.16	0.0089	0.0061 *
Moon	6532-03-31 18:57 G	4106914.17	4106914.29	4106914.45	0.0089	0.0074
Earth	6532-03-31 21:07 G	4106914.27	4106914.38	4106914.53	0.0089	0.0076 *
Mars	6548-11-07 19:40 G	4112979.25	4112979.32	4112979.45	0.0088	0.0085
Mars	6550-10-05 07:26 G	4113675.47	4113675.81	4113676.15	0.0088	0.0018
Mercury	6566-09-27 22:19 G	4119512.39	4119512.43	4119512.50	0.0088	0.0083
Mercury	6566-12-25 01:26 G	4119600.47	4119600.56	4119600.65	0.0088	0.0074
Mercury	6567-03-23 03:50 G	4119688.56	4119688.66	4119688.79	0.0088	0.0066
Mercury	6567-06-19 06:28 G	4119776.65	4119776.77	4119776.92	0.0088	0.0058
Mercury	6567-09-15 09:21 G	4119864.76	4119864.89	4119865.05	0.0088	0.0049
Mercury	6567-12-12 12:28 G	4119952.86	4119953.02	4119953.17	0.0088	0.0040
Venus	6567-12-22 01:55 G	4119962.52	4119962.58	4119962.68	0.0088	0.0082
Mercury	6568-03-09 14:52 G	4120040.97	4120041.12	4120041.30	0.0088	0.0032
Mercury	6568-06-05 18:00 G	4120129.08	4120129.25	4120129.42	0.0088	0.0023
Venus	6568-08-03 14:24 G	4120187.98	4120188.10	4120188.27	0.0088	0.0065
Mercury	6568-09-01 20:38 G	4120217.19	4120217.36	4120217.54	0.0088	0.0015
Mercury	6568-11-28 23:31 G	4120305.31	4120305.48	4120305.66	0.0088	0.0006
Mercury	6569-02-25 02:24 G	4120393.42	4120393.60	4120393.78	0.0088	0.0003
Venus	6569-03-17 03:21 G	4120413.47	4120413.64	4120413.84	0.0088	0.0047
Mercury	6569-05-24 05:16 G	4120481.54	4120481.72	4120481.90	0.0088	0.0012
Mercury	6569-08-20 07:55 G	4120569.67	4120569.83	4120570.01	0.0088	0.0021
Venus	6569-10-28 15:50 G	4120638.97	4120639.16	4120639.38	0.0088	0.0030
Mercury	6569-11-16 11:02 G	4120657.79	4120657.96	4120658.13	0.0088	0.0029
Mercury	6570-02-12 13:55 G	4120745.92	4120746.08	4120746.24	0.0088	0.0038
Mercury	6570-05-11 16:48 G	4120834.05	4120834.20	4120834.35	0.0088	0.0047



Venus	6570-06-11 04:48 G	4120864.48	4120864.70	4120864.92	0.0088	0.0012
Mercury	6570-08-07 19:26 G	4120922.19	4120922.31	4120922.46	0.0088	0.0056
Mercury	6570-11-03 22:19 G	4121010.33	4121010.43	4121010.57	0.0088	0.0065
Venus	6571-01-22 17:16 G	4121090.00	4121090.22	4121090.44	0.0088	0.0006
Mercury	6571-01-31 01:26 G	4121098.47	4121098.56	4121098.66	0.0088	0.0074
Mercury	6571-04-29 04:19 G	4121186.63	4121186.68	4121186.75	0.0088	0.0083
Venus	6571-09-05 06:00 G	4121315.54	4121315.75	4121315.96	0.0088	0.0023
Venus	6572-04-17 18:28 G	4121541.09	4121541.27	4121541.48	0.0088	0.0041
Venus	6572-11-29 07:11 G	4121766.65	4121766.80	4121766.98	0.0088	0.0058
Venus	6573-07-12 19:55 G	4121992.22	4121992.33	4121992.45	0.0088	0.0075
Moon	6606-09-12 16:19 G	4134106.05	4134106.18	4134106.34	0.0088	0.0073
Earth	6606-09-12 19:55 G	4134106.22	4134106.33	4134106.48	0.0088	0.0077 *
Earth	6607-09-15 08:24 G	4134473.68	4134473.85	4134474.06	0.0088	0.0059
Moon	6607-09-15 11:16 G	4134473.81	4134473.97	4134474.18	0.0088	0.0064 *
Moon	6608-09-16 19:11 G	4134841.09	4134841.30	4134841.54	0.0088	0.0039
Earth	6608-09-16 21:35 G	4134841.18	4134841.40	4134841.64	0.0088	0.0042 *
Earth	6609-09-19 10:48 G	4135208.70	4135208.95	4135209.20	0.0088	0.0024
Moon	6609-09-19 12:00 G	4135208.75	4135209.00	4135209.27	0.0088	0.0027 *
Earth	6610-09-21 23:31 G	4135576.22	4135576.48	4135576.75	0.0088	0.0006
Moon	6610-09-22 00:00 G	4135576.24	4135576.50	4135576.75	0.0088	0.0003 *
Moon	6611-09-24 11:31 G	4135943.71	4135943.98	4135944.25	0.0088	0.0008
Earth	6611-09-24 12:43 G	4135943.77	4135944.03	4135944.29	0.0088	0.0012 *
Earth	6612-09-26 01:26 G	4136311.33	4136311.56	4136311.82	0.0088	0.0029
Moon	6612-09-26 03:35 G	4136311.42	4136311.65	4136311.90	0.0088	0.0033 *
Moon	6613-09-28 11:02 G	4136678.75	4136678.96	4136679.21	0.0088	0.0044
Earth	6613-09-28 14:52 G	4136678.90	4136679.12	4136679.34	0.0088	0.0047 *
Earth	6614-10-01 03:21 G	4137046.49	4137046.64	4137046.84	0.0088	0.0065
Moon	6614-10-01 06:43 G	4137046.64	4137046.78	4137046.97	0.0088	0.0068 *
Moon	6615-10-03 12:28 G	4137413.93	4137414.02	4137414.16	0.0089	0.0080
Earth	6615-10-03 16:04 G	4137414.11	4137414.17	4137414.30	0.0089	0.0083 *

Mars	6632-08-01 00:14 G	4143560.27	4143560.51	4143560.77	0.0089	0.0043
Mars	6634-06-25 12:14 G	4144253.77	4144254.01	4144254.27	0.0089	0.0042
Mercury	6649-01-07 10:33 G	4149563.90	4149563.94	4149564.00	0.0089	0.0084
Mercury	6649-04-05 12:28 G	4149651.95	4149652.02	4149652.10	0.0089	0.0076
Mercury	6649-07-02 14:09 G	4149740.00	4149740.09	4149740.19	0.0089	0.0068
Mercury	6649-09-28 15:50 G	4149828.06	4149828.16	4149828.27	0.0089	0.0061
Mercury	6649-12-25 17:31 G	4149916.12	4149916.23	4149916.35	0.0089	0.0053
Mercury	6650-03-23 19:26 G	4150004.19	4150004.31	4150004.43	0.0089	0.0046
Mercury	6650-06-19 20:52 G	4150092.25	4150092.37	4150092.51	0.0089	0.0039
Mercury	6650-09-15 22:33 G	4150180.31	4150180.44	4150180.58	0.0089	0.0031
Venus	6650-09-21 00:57 G	4150185.45	4150185.54	4150185.65	0.0089	0.0080
Mercury	6650-12-13 00:14 G	4150268.38	4150268.51	4150268.65	0.0089	0.0024
Mercury	6651-03-11 01:55 G	4150356.45	4150356.58	4150356.73	0.0089	0.0016
Venus	6651-05-04 14:09 G	4150410.95	4150411.09	4150411.27	0.0089	0.0062
Mercury	6651-06-07 03:35 G	4150444.51	4150444.65	4150444.80	0.0089	0.0009
Mercury	6651-09-03 05:16 G	4150532.58	4150532.72	4150532.86	0.0089	0.0002
Mercury	6651-11-30 06:57 G	4150620.65	4150620.79	4150620.93	0.0089	0.0006
Venus	6651-12-16 04:04 G	4150636.48	4150636.67	4150636.86	0.0089	0.0043
Mercury	6652-02-26 08:38 G	4150708.72	4150708.86	4150709.00	0.0089	0.0013
Mercury	6652-05-24 10:04 G	4150796.79	4150796.92	4150797.06	0.0089	0.0021
Venus	6652-07-28 17:16 G	4150862.01	4150862.22	4150862.44	0.0089	0.0024
Mercury	6652-08-20 11:31 G	4150884.86	4150884.98	4150885.13	0.0089	0.0029
Mercury	6652-11-16 13:11 G	4150972.93	4150973.05	4150973.19	0.0089	0.0036
Mercury	6653-02-12 14:52 G	4151061.00	4151061.12	4151061.25	0.0089	0.0042
Venus	6653-03-11 06:43 G	4151087.56	4151087.78	4151088.00	0.0089	0.0006
Mercury	6653-05-11 16:33 G	4151149.08	4151149.19	4151149.31	0.0089	0.0050
Mercury	6653-08-07 18:00 G	4151237.15	4151237.25	4151237.36	0.0089	0.0057
Venus	6653-10-22 20:09 G	4151313.13	4151313.34	4151313.56	0.0089	0.0013
Mercury	6653-11-03 19:40 G	4151325.23	4151325.32	4151325.42	0.0089	0.0064
Mercury	6654-01-30 20:52 G	4151413.30	4151413.37	4151413.47	0.0089	0.0072

Mercury	6654-04-28 22:33 G	4151501.39	4151501.44	4151501.52	0.0089	0.0079
Venus	6654-06-05 09:21 G	4151538.69	4151538.89	4151539.11	0.0089	0.0031
Mercury	6654-07-26 00:00 G	4151589.48	4151589.50	4151589.56	0.0089	0.0086
Venus	6655-01-16 22:33 G	4151764.27	4151764.44	4151764.64	0.0089	0.0050
Venus	6655-08-30 11:45 G	4151989.87	4151989.99	4151990.15	0.0089	0.0068
Venus	6656-04-12 00:57 G	4152215.51	4152215.54	4152215.62	0.0089	0.0087
Moon	6687-03-13 09:07 G	4163507.85	4163507.88	4163507.98	0.0089	0.0086
Moon	6688-03-14 13:40 G	4163874.97	4163875.07	4163875.22	0.0089	0.0078
Earth	6688-03-14 17:16 G	4163875.10	4163875.22	4163875.39	0.0089	0.0073 *
Earth	6689-03-17 03:50 G	4164242.49	4164242.66	4164242.88	0.0089	0.0056
Moon	6689-03-17 07:40 G	4164242.62	4164242.82	4164243.03	0.0089	0.0051 *
Moon	6690-03-19 11:31 G	4164609.77	4164609.98	4164610.21	0.0089	0.0043
Earth	6690-03-19 14:52 G	4164609.90	4164610.12	4164610.36	0.0089	0.0038 *
Earth	6691-03-22 01:26 G	4164977.32	4164977.56	4164977.81	0.0089	0.0021
Moon	6691-03-22 03:21 G	4164977.40	4164977.64	4164977.91	0.0089	0.0017 *
Moon	6692-03-23 10:33 G	4165344.70	4165344.94	4165345.19	0.0089	0.0008
Earth	6692-03-23 12:00 G	4165344.74	4165345.00	4165345.25	0.0089	0.0004 *
Earth	6693-03-25 22:04 G	4165712.18	4165712.42	4165712.68	0.0089	0.0014
Moon	6693-03-25 22:19 G	4165712.18	4165712.43	4165712.69	0.0089	0.0018 *
Earth	6694-03-28 08:24 G	4166079.62	4166079.85	4166080.09	0.0089	0.0031
Moon	6694-03-28 09:50 G	4166079.69	4166079.91	4166080.16	0.0089	0.0027 *
Moon	6695-03-30 16:19 G	4166446.98	4166447.18	4166447.40	0.0089	0.0052
Earth	6695-03-30 18:43 G	4166447.07	4166447.28	4166447.50	0.0089	0.0048 *
Earth	6696-04-01 05:02 G	4166814.54	4166814.71	4166814.88	0.0089	0.0065
Moon	6696-04-01 07:55 G	4166814.66	4166814.83	4166815.02	0.0089	0.0061 *
Moon	6697-04-03 11:16 G	4167181.94	4167181.97	4167182.04	0.0089	0.0087
Earth	6697-04-03 15:07 G	4167182.05	4167182.13	4167182.23	0.0089	0.0082
Mars	6714-05-20 06:43 G	4173436.48	4173436.78	4173437.12	0.0088	0.0033
Mars	6716-04-15 17:31 G	4174133.05	4174133.23	4174133.48	0.0088	0.0069
Mercury	6731-06-26 20:09 G	4179683.30	4179683.34	4179683.42	0.0088	0.0082

Mercury	6731-09-22 23:02 G	4179771.38	4179771.46	4179771.57	0.0088	0.0073
Mercury	6731-12-20 01:40 G	4179859.47	4179859.57	4179859.70	0.0088	0.0065
Mercury	6732-03-17 04:48 G	4179947.57	4179947.70	4179947.84	0.0088	0.0056
Mercury	6732-06-13 07:11 G	4180035.67	4180035.80	4180035.96	0.0088	0.0048
Mercury	6732-09-09 10:19 G	4180123.77	4180123.93	4180124.09	0.0088	0.0039
Venus	6732-11-06 23:31 G	4180182.38	4180182.48	4180182.62	0.0088	0.0074
Mercury	6732-12-06 12:57 G	4180211.88	4180212.04	4180212.21	0.0088	0.0031
Mercury	6733-03-04 15:50 G	4180299.99	4180300.16	4180300.33	0.0088	0.0022
Mercury	6733-05-31 18:43 G	4180388.10	4180388.28	4180388.45	0.0088	0.0013
Venus	6733-06-20 12:28 G	4180407.85	4180408.02	4180408.19	0.0088	0.0056
Mercury	6733-08-27 21:21 G	4180476.22	4180476.39	4180476.57	0.0088	0.0005
Mercury	6733-11-24 00:14 G	4180564.33	4180564.51	4180564.69	0.0088	0.0004
Venus	6734-02-01 00:43 G	4180633.34	4180633.53	4180633.74	0.0088	0.0039
Mercury	6734-02-20 03:07 G	4180652.45	4180652.63	4180652.81	0.0088	0.0013
Mercury	6734-05-19 05:45 G	4180740.58	4180740.74	4180740.92	0.0088	0.0022
Mercury	6734-08-15 08:52 G	4180828.70	4180828.87	4180829.04	0.0088	0.0030
Venus	6734-09-14 13:11 G	4180858.85	4180859.05	4180859.28	0.0088	0.0022
Mercury	6734-11-11 11:45 G	4180916.83	4180916.99	4180917.15	0.0088	0.0039
Mercury	6735-02-07 14:24 G	4181004.96	4181005.10	4181005.26	0.0088	0.0048
Venus	6735-04-28 02:09 G	4181084.38	4181084.59	4181084.82	0.0088	0.0004
Mercury	6735-05-06 17:16 G	4181093.09	4181093.22	4181093.37	0.0088	0.0057
Mercury	6735-08-02 20:09 G	4181181.23	4181181.34	4181181.47	0.0088	0.0066
Mercury	6735-10-29 23:02 G	4181269.38	4181269.46	4181269.57	0.0088	0.0075
Venus	6735-12-09 14:38 G	4181309.90	4181310.11	4181310.34	0.0088	0.0014
Mercury	6736-01-26 01:55 G	4181357.54	4181357.58	4181357.65	0.0088	0.0084
Venus	6736-07-22 03:21 G	4181535.44	4181535.64	4181535.85	0.0088	0.0031
Venus	6737-03-04 15:35 G	4181760.98	4181761.15	4181761.35	0.0088	0.0049
Venus	6737-10-16 04:19 G	4181986.55	4181986.68	4181986.84	0.0088	0.0066
Venus	6738-05-29 16:48 G	4182212.16	4182212.20	4182212.29	0.0088	0.0084
Earth	6770-09-12 23:31 G	4194006.43	4194006.48	4194006.54	0.0088	0.0086

Moon	6770-09-13 02:24 G	4194006.58	4194006.60	4194006.63	0.0088	0.0088
Moon	6771-09-15 10:33 G	4194373.79	4194373.94	4194374.12	0.0088	0.0068
Earth	6771-09-15 12:14 G	4194373.85	4194374.01	4194374.18	0.0088	0.0069 *
Earth	6772-09-17 00:43 G	4194741.33	4194741.53	4194741.76	0.0088	0.0052
Moon	6772-09-17 01:11 G	4194741.33	4194741.55	4194741.77	0.0088	0.0053 *
Earth	6773-09-19 13:26 G	4195108.83	4195109.06	4195109.31	0.0088	0.0034
Moon	6773-09-19 13:55 G	4195108.86	4195109.08	4195109.33	0.0088	0.0032 *
Moon	6774-09-22 00:14 G	4195476.25	4195476.51	4195476.78	0.0088	0.0018
Earth	6774-09-22 02:38 G	4195476.35	4195476.61	4195476.87	0.0088	0.0017 *
Earth	6775-09-24 15:21 G	4195843.88	4195844.14	4195844.40	0.0088	0.0001
Moon	6775-09-24 18:14 G	4195844.01	4195844.26	4195844.52	0.0088	0.0003 *
Moon	6776-09-26 00:57 G	4196211.29	4196211.54	4196211.81	0.0088	0.0016
Earth	6776-09-26 04:19 G	4196211.43	4196211.68	4196211.95	0.0088	0.0018 *
Earth	6777-09-28 17:16 G	4196578.99	4196579.22	4196579.47	0.0088	0.0036
Moon	6777-09-28 20:52 G	4196579.15	4196579.37	4196579.62	0.0088	0.0039 *
Moon	6778-10-01 02:52 G	4196946.43	4196946.62	4196946.85	0.0088	0.0051
Earth	6778-10-01 06:00 G	4196946.56	4196946.75	4196946.98	0.0088	0.0054 *
Earth	6779-10-03 18:57 G	4197314.16	4197314.29	4197314.47	0.0089	0.0071
Moon	6779-10-03 22:19 G	4197314.30	4197314.43	4197314.59	0.0089	0.0074 *
Moon	6780-10-05 06:57 G	4197681.73	4197681.79	4197681.86	0.0089	0.0085
Earth	6780-10-05 08:23 G	4197681.83	4197681.85	4197681.90	0.0089	0.0088 *
Mars	6796-03-17 06:00 G	4203323.71	4203323.75	4203323.84	0.0089	0.0086
Mars	6798-02-08 19:55 G	4204017.05	4204017.33	4204017.62	0.0089	0.0002
Mars	6800-01-03 07:55 G	4204710.76	4204710.83	4204710.94	0.0089	0.0084
Mercury	6813-10-05 09:21 G	4209734.85	4209734.89	4209734.95	0.0089	0.0083
Mercury	6814-01-01 11:16 G	4209822.89	4209822.97	4209823.04	0.0089	0.0076
Mercury	6814-03-30 12:43 G	4209910.95	4209911.03	4209911.13	0.0089	0.0069
Mercury	6814-06-26 14:38 G	4209999.01	4209999.11	4209999.21	0.0089	0.0061
Mercury	6814-09-22 16:04 G	4210087.07	4210087.17	4210087.30	0.0089	0.0054
Mercury	6814-12-19 18:00 G	4210175.13	4210175.25	4210175.37	0.0089	0.0046

Mercury	6815-03-17 19:26 G	4210263.19	4210263.31	4210263.45	0.0089	0.0039
Mercury	6815-06-13 21:21 G	4210351.26	4210351.39	4210351.53	0.0089	0.0031
Venus	6815-08-06 21:07 G	4210405.28	4210405.38	4210405.53	0.0089	0.0073
Mercury	6815-09-09 23:02 G	4210439.32	4210439.46	4210439.60	0.0089	0.0023
Mercury	6815-12-07 00:43 G	4210527.39	4210527.53	4210527.67	0.0089	0.0016
Mercury	6816-03-04 02:23 G	4210615.46	4210615.60	4210615.74	0.0089	0.0009
Venus	6816-03-19 11:02 G	4210630.79	4210630.96	4210631.14	0.0089	0.0054
Mercury	6816-05-31 04:04 G	4210703.53	4210703.67	4210703.81	0.0089	0.0002
Mercury	6816-08-27 05:45 G	4210791.59	4210791.74	4210791.88	0.0089	0.0007
Venus	6816-10-31 00:14 G	4210856.32	4210856.51	4210856.73	0.0089	0.0036
Mercury	6816-11-23 07:11 G	4210879.66	4210879.80	4210879.94	0.0089	0.0014
Mercury	6817-02-19 08:52 G	4210967.73	4210967.87	4210968.01	0.0089	0.0021
Mercury	6817-05-18 10:19 G	4211055.80	4211055.93	4211056.07	0.0089	0.0029
Venus	6817-06-13 13:55 G	4211081.87	4211082.08	4211082.30	0.0089	0.0017
Mercury	6817-08-14 12:00 G	4211143.88	4211144.00	4211144.13	0.0089	0.0035
Mercury	6817-11-10 13:40 G	4211231.95	4211232.07	4211232.20	0.0089	0.0043
Venus	6818-01-25 03:21 G	4211307.42	4211307.64	4211307.86	0.0089	0.0002
Mercury	6818-02-06 15:21 G	4211320.02	4211320.14	4211320.25	0.0089	0.0050
Mercury	6818-05-05 16:33 G	4211408.10	4211408.19	4211408.31	0.0089	0.0058
Mercury	6818-08-01 18:14 G	4211496.18	4211496.26	4211496.37	0.0089	0.0064
Venus	6818-09-07 16:33 G	4211532.99	4211533.19	4211533.41	0.0089	0.0021
Mercury	6818-10-28 19:55 G	4211584.25	4211584.33	4211584.42	0.0089	0.0071
Mercury	6819-01-24 21:21 G	4211672.34	4211672.39	4211672.47	0.0089	0.0079
Venus	6819-04-21 05:45 G	4211758.56	4211758.74	4211758.96	0.0089	0.0040
Mercury	6819-04-22 23:02 G	4211760.43	4211760.46	4211760.51	0.0089	0.0086
Venus	6819-12-02 19:11 G	4211984.15	4211984.30	4211984.48	0.0089	0.0058
Venus	6820-07-15 08:23 G	4212209.76	4212209.85	4212209.98	0.0089	0.0076
Earth	6852-03-14 23:31 G	4223775.40	4223775.48	4223775.59	0.0089	0.0082
Moon	6852-03-15 02:52 G	4223775.54	4223775.62	4223775.74	0.0089	0.0082 *
Moon	6853-03-17 07:26 G	4224142.67	4224142.81	4224143.00	0.0089	0.0066

Earth	6853-03-17 10:19 G	4224142.77	4224142.93	4224143.12	0.0089	0.0065 *
Earth	6854-03-19 21:07 G	4224510.17	4224510.38	4224510.60	0.0089	0.0048
Moon	6854-03-19 23:02 G	4224510.26	4224510.46	4224510.70	0.0089	0.0047 *
Moon	6855-03-22 07:26 G	4224877.58	4224877.81	4224878.04	0.0089	0.0031
Earth	6855-03-22 07:40 G	4224877.59	4224877.82	4224878.07	0.0089	0.0031 *
Moon	6856-03-23 17:31 G	4225244.98	4225245.23	4225245.50	0.0089	0.0014
Earth	6856-03-23 18:14 G	4225245.02	4225245.26	4225245.52	0.0089	0.0014 *
Earth	6857-03-26 04:48 G	4225612.45	4225612.70	4225612.96	0.0089	0.0003
Moon	6857-03-26 06:14 G	4225612.52	4225612.76	4225613.01	0.0089	0.0003 *
Moon	6858-03-28 12:00 G	4225979.76	4225980.00	4225980.26	0.0089	0.0021
Earth	6858-03-28 14:52 G	4225979.89	4225980.12	4225980.39	0.0089	0.0021 *
Earth	6859-03-31 01:11 G	4226347.34	4226347.55	4226347.80	0.0089	0.0038
Moon	6859-03-31 04:33 G	4226347.47	4226347.69	4226347.93	0.0089	0.0037 *
Moon	6860-04-01 07:40 G	4226714.65	4226714.82	4226715.04	0.0089	0.0056
Earth	6860-04-01 11:16 G	4226714.79	4226714.97	4226715.19	0.0089	0.0055 *
Earth	6861-04-03 21:50 G	4227082.27	4227082.41	4227082.57	0.0089	0.0071
Moon	6861-04-04 01:11 G	4227082.40	4227082.55	4227082.71	0.0089	0.0070 *
Earth	6862-04-06 07:55 G	4227449.82	4227449.83	4227449.88	0.0089	0.0088
Mars	6877-12-31 06:14 G	4233197.68	4233197.76	4233197.91	0.0088	0.0084
Mars	6879-11-27 18:00 G	4233893.91	4233894.25	4233894.59	0.0088	0.0019
Mercury	6896-03-22 18:00 G	4239854.20	4239854.25	4239854.34	0.0088	0.0081
Mercury	6896-06-18 21:07 G	4239942.28	4239942.38	4239942.48	0.0088	0.0072
Mercury	6896-09-14 23:31 G	4240030.38	4240030.48	4240030.61	0.0088	0.0064
Mercury	6896-12-12 02:38 G	4240118.47	4240118.61	4240118.74	0.0088	0.0055
Venus	6897-02-08 07:40 G	4240176.78	4240176.82	4240176.91	0.0088	0.0084
Mercury	6897-03-10 05:02 G	4240206.57	4240206.71	4240206.87	0.0088	0.0047
Mercury	6897-06-06 08:09 G	4240294.68	4240294.84	4240295.00	0.0088	0.0038
Mercury	6897-09-02 10:33 G	4240382.79	4240382.94	4240383.12	0.0088	0.0030
Venus	6897-09-21 20:38 G	4240402.23	4240402.36	4240402.52	0.0088	0.0066
Mercury	6897-11-29 13:40 G	4240470.90	4240471.07	4240471.24	0.0088	0.0021

Mercury	6898-02-25 16:19 G	4240559.01	4240559.18	4240559.36	0.0088	0.0013
Venus	6898-05-05 09:07 G	4240627.72	4240627.88	4240628.08	0.0088	0.0049
Mercury	6898-05-24 19:11 G	4240647.12	4240647.30	4240647.48	0.0088	0.0004
Mercury	6898-08-20 22:04 G	4240735.24	4240735.42	4240735.60	0.0088	0.0005
Mercury	6898-11-17 00:43 G	4240823.36	4240823.53	4240823.71	0.0088	0.0014
Venus	6898-12-16 22:04 G	4240853.22	4240853.42	4240853.63	0.0088	0.0031
Mercury	6899-02-13 03:36 G	4240911.48	4240911.65	4240911.83	0.0088	0.0022
Mercury	6899-05-12 06:28 G	4240999.60	4240999.77	4240999.94	0.0088	0.0031
Venus	6899-07-30 10:33 G	4241078.73	4241078.94	4241079.16	0.0088	0.0014
Mercury	6899-08-08 09:07 G	4241087.73	4241087.88	4241088.05	0.0088	0.0040
Mercury	6899-11-04 12:00 G	4241175.86	4241176.00	4241176.16	0.0088	0.0049
Mercury	6900-01-31 14:38 G	4241264.00	4241264.11	4241264.27	0.0088	0.0058
Venus	6900-03-12 23:16 G	4241304.25	4241304.47	4241304.69	0.0088	0.0004
Mercury	6900-04-29 18:00 G	4241352.13	4241352.25	4241352.37	0.0088	0.0066
Mercury	6900-07-26 20:52 G	4241440.28	4241440.37	4241440.46	0.0088	0.0075
Mercury	6900-10-22 23:45 G	4241528.45	4241528.49	4241528.54	0.0088	0.0084
Venus	6900-10-24 11:31 G	4241529.78	4241529.98	4241530.21	0.0088	0.0022
Venus	6901-06-07 00:14 G	4241755.32	4241755.51	4241755.71	0.0088	0.0039
Venus	6902-01-18 12:28 G	4241980.87	4241981.02	4241981.21	0.0088	0.0057
Venus	6902-09-01 01:26 G	4242206.45	4242206.56	4242206.68	0.0088	0.0074
Moon	6935-09-15 14:23 G	4254273.97	4254274.10	4254274.27	0.0088	0.0074
Earth	6935-09-15 14:38 G	4254274.02	4254274.11	4254274.25	0.0088	0.0079 *
Earth	6936-09-17 03:21 G	4254641.47	4254641.64	4254641.85	0.0088	0.0061
Moon	6936-09-17 05:31 G	4254641.57	4254641.73	4254641.91	0.0088	0.0066 *
Moon	6937-09-19 13:40 G	4255008.85	4255009.07	4255009.33	0.0088	0.0040
Earth	6937-09-19 16:04 G	4255008.97	4255009.17	4255009.42	0.0088	0.0045 *
Earth	6938-09-22 04:48 G	4255376.47	4255376.70	4255376.96	0.0088	0.0027
Moon	6938-09-22 08:23 G	4255376.62	4255376.85	4255377.10	0.0088	0.0032 *
Moon	6939-09-24 14:23 G	4255743.84	4255744.10	4255744.36	0.0088	0.0005
Earth	6939-09-24 18:00 G	4255743.99	4255744.25	4255744.51	0.0088	0.0010 *



Earth	6940-09-26 06:57 G	4256111.53	4256111.79	4256112.05	0.0088	0.0007
Moon	6940-09-26 10:33 G	4256111.67	4256111.94	4256112.20	0.0088	0.0004 *
Moon	6941-09-28 16:19 G	4256478.95	4256479.18	4256479.44	0.0088	0.0029
Earth	6941-09-28 19:40 G	4256479.07	4256479.32	4256479.58	0.0088	0.0025 *
Earth	6942-10-01 08:52 G	4256846.64	4256846.87	4256847.10	0.0088	0.0042
Moon	6942-10-01 10:33 G	4256846.70	4256846.94	4256847.19	0.0088	0.0038 *
Moon	6943-10-03 20:23 G	4257214.18	4257214.35	4257214.54	0.0088	0.0063
Earth	6943-10-03 21:21 G	4257214.22	4257214.39	4257214.61	0.0088	0.0060 *
Moon	6944-10-05 10:04 G	4257581.80	4257581.92	4257582.11	0.0088	0.0073
Earth	6944-10-05 10:19 G	4257581.83	4257581.93	4257582.09	0.0088	0.0077 *
Mars	6961-09-25 01:11 G	4263780.32	4263780.55	4263780.82	0.0089	0.0045
Mars	6963-08-19 14:52 G	4264473.87	4264474.12	4264474.38	0.0089	0.0041
Mercury	6978-07-03 07:55 G	4269905.79	4269905.83	4269905.89	0.0089	0.0084
Mercury	6978-09-29 09:21 G	4269993.84	4269993.89	4269993.98	0.0089	0.0077
Mercury	6978-12-26 11:16 G	4270081.89	4270081.97	4270082.07	0.0089	0.0069
Mercury	6979-03-24 12:57 G	4270169.95	4270170.04	4270170.15	0.0089	0.0061
Mercury	6979-06-20 14:38 G	4270258.01	4270258.11	4270258.24	0.0089	0.0054
Mercury	6979-09-16 16:19 G	4270346.07	4270346.18	4270346.32	0.0089	0.0047
Venus	6979-11-09 04:19 G	4270399.62	4270399.68	4270399.77	0.0089	0.0084
Mercury	6979-12-13 18:14 G	4270434.13	4270434.26	4270434.39	0.0089	0.0038
Mercury	6980-03-10 19:40 G	4270522.20	4270522.32	4270522.47	0.0089	0.0032
Mercury	6980-06-06 21:36 G	4270610.26	4270610.40	4270610.54	0.0089	0.0024
Venus	6980-06-21 17:31 G	4270625.10	4270625.23	4270625.40	0.0089	0.0066
Mercury	6980-09-02 23:16 G	4270698.33	4270698.47	4270698.61	0.0089	0.0016
Mercury	6980-11-30 00:57 G	4270786.40	4270786.54	4270786.68	0.0089	0.0009
Venus	6981-02-02 07:11 G	4270850.62	4270850.80	4270851.00	0.0089	0.0047
Mercury	6981-02-26 02:38 G	4270874.47	4270874.61	4270874.75	0.0089	0.0001
Mercury	6981-05-25 04:19 G	4270962.54	4270962.68	4270962.82	0.0089	0.0006
Mercury	6981-08-21 05:45 G	4271050.61	4271050.74	4271050.89	0.0089	0.0014
Venus	6981-09-15 20:52 G	4271076.16	4271076.37	4271076.58	0.0089	0.0028

Mercury	6981-11-17 07:26 G	4271138.68	4271138.81	4271138.95	0.0089	0.0021
Mercury	6982-02-13 09:07 G	4271226.75	4271226.88	4271227.02	0.0089	0.0028
Venus	6982-04-29 10:19 G	4271301.71	4271301.93	4271302.15	0.0089	0.0009
Mercury	6982-05-12 10:33 G	4271314.82	4271314.94	4271315.08	0.0089	0.0036
Mercury	6982-08-08 12:14 G	4271402.89	4271403.01	4271403.14	0.0089	0.0043
Mercury	6982-11-04 13:55 G	4271490.97	4271491.08	4271491.20	0.0089	0.0050
Venus	6982-12-10 23:45 G	4271527.27	4271527.49	4271527.71	0.0089	0.0010
Mercury	6983-01-31 15:36 G	4271579.04	4271579.15	4271579.26	0.0089	0.0057
Mercury	6983-04-29 17:02 G	4271667.12	4271667.21	4271667.31	0.0089	0.0064
Venus	6983-07-24 12:57 G	4271752.84	4271753.04	4271753.26	0.0089	0.0028
Mercury	6983-07-26 18:28 G	4271755.20	4271755.27	4271755.37	0.0089	0.0072
Mercury	6983-10-22 20:09 G	4271843.28	4271843.34	4271843.41	0.0089	0.0079
Mercury	6984-01-18 21:50 G	4271931.38	4271931.41	4271931.45	0.0089	0.0086
Venus	6984-03-06 02:23 G	4271978.42	4271978.60	4271978.80	0.0089	0.0047
Venus	6984-10-17 15:50 G	4272204.02	4272204.16	4272204.32	0.0089	0.0066
Venus	6985-05-31 05:31 G	4272429.66	4272429.73	4272429.80	0.0089	0.0084

# 8TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 8th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	7016-03-16 02:52 G		4283675.60	4283675.62	4283675.70	0.0089	0.0087	
Earth	7017-03-18 16:19 G		4284043.06	4284043.18	4284043.33	0.0089	0.0075	
Moon	7017-03-18 17:31 G		4284043.11	4284043.23	4284043.35	0.0089	0.0079	*

Moon	7018-03-21 03:07 G	4284410.43	4284410.63	4284410.82	0.0089	0.0054
Earth	7018-03-21 02:38 G	4284410.45	4284410.61	4284410.83	0.0089	0.0058 *
Moon	7019-03-23 12:28 G	4284777.80	4284778.02	4284778.25	0.0089	0.0045
Earth	7019-03-23 13:40 G	4284777.86	4284778.07	4284778.31	0.0089	0.0041 *
Earth	7020-03-25 00:14 G	4285145.28	4285145.51	4285145.77	0.0089	0.0024
Moon	7020-03-25 03:07 G	4285145.39	4285145.63	4285145.87	0.0089	0.0019 *
Moon	7021-03-27 08:23 G	4285512.59	4285512.85	4285513.10	0.0089	0.0011
Earth	7021-03-27 11:16 G	4285512.72	4285512.97	4285513.23	0.0089	0.0007 *
Earth	7022-03-29 21:50 G	4285880.16	4285880.41	4285880.66	0.0089	0.0010
Moon	7022-03-30 01:26 G	4285880.31	4285880.56	4285880.81	0.0089	0.0015 *
Moon	7023-04-01 04:48 G	4286247.47	4286247.70	4286247.95	0.0089	0.0023
Earth	7023-04-01 08:09 G	4286247.60	4286247.84	4286248.09	0.0089	0.0027 *
Earth	7024-04-02 18:14 G	4286615.05	4286615.26	4286615.49	0.0089	0.0044
Moon	7024-04-02 21:21 G	4286615.19	4286615.39	4286615.62	0.0089	0.0048 *
Moon	7025-04-05 02:38 G	4286982.43	4286982.61	4286982.81	0.0089	0.0056
Earth	7025-04-05 04:19 G	4286982.52	4286982.68	4286982.89	0.0089	0.0061 *
Earth	7026-04-07 14:52 G	4287350.01	4287350.12	4287350.25	0.0089	0.0077
Moon	7026-04-07 15:21 G	4287350.05	4287350.14	4287350.26	0.0089	0.0081 *
Mars	7043-07-12 15:50 G	4293654.86	4293655.16	4293655.50	0.0088	0.0032
Mars	7045-06-08 02:23 G	4294351.43	4294351.60	4294351.85	0.0088	0.0070
Jupiter	7045-10-12 07:40 G	4294477.33	4294477.82	4294478.39	0.0088	0.0032
Mercury	7060-12-19 15:50 G	4300025.11	4300025.16	4300025.25	0.0088	0.0080
Mercury	7061-03-17 18:57 G	4300113.19	4300113.29	4300113.39	0.0088	0.0071
Mercury	7061-06-13 21:21 G	4300201.28	4300201.39	4300201.53	0.0088	0.0063
Mercury	7061-09-10 00:00 G	4300289.38	4300289.50	4300289.66	0.0088	0.0055
Mercury	7061-12-07 02:52 G	4300377.48	4300377.62	4300377.78	0.0088	0.0046
Venus	7061-12-26 05:16 G	4300396.63	4300396.72	4300396.85	0.0088	0.0076
Mercury	7062-03-05 05:31 G	4300465.59	4300465.73	4300465.91	0.0088	0.0038
Mercury	7062-06-01 08:38 G	4300553.70	4300553.86	4300554.03	0.0088	0.0029
Venus	7062-08-08 18:00 G	4300622.10	4300622.25	4300622.42	0.0088	0.0058

Mercury	7062-08-28 11:31 G	4300641.81	4300641.98	4300642.15	0.0088	0.0020
Mercury	7062-11-24 14:09 G	4300729.92	4300730.09	4300730.27	0.0088	0.0012
Mercury	7063-02-20 17:02 G	4300818.03	4300818.21	4300818.39	0.0088	0.0003
Venus	7063-03-22 06:28 G	4300847.59	4300847.77	4300847.98	0.0088	0.0041
Mercury	7063-05-19 19:40 G	4300906.15	4300906.32	4300906.50	0.0088	0.0006
Mercury	7063-08-15 22:33 G	4300994.27	4300994.44	4300994.62	0.0088	0.0014
Venus	7063-11-02 19:11 G	4301073.09	4301073.30	4301073.52	0.0088	0.0023
Mercury	7063-11-12 01:26 G	4301082.39	4301082.56	4301082.73	0.0088	0.0023
Mercury	7064-02-08 04:04 G	4301170.51	4301170.67	4301170.84	0.0088	0.0032
Mercury	7064-05-06 06:57 G	4301258.64	4301258.79	4301258.96	0.0088	0.0041
Venus	7064-06-15 07:55 G	4301298.61	4301298.83	4301299.05	0.0088	0.0006
Mercury	7064-08-02 09:36 G	4301346.77	4301346.90	4301347.06	0.0088	0.0050
Mercury	7064-10-29 12:43 G	4301434.90	4301435.03	4301435.17	0.0088	0.0058
Mercury	7065-01-25 15:36 G	4301523.04	4301523.15	4301523.27	0.0088	0.0067
Venus	7065-01-26 20:23 G	4301524.13	4301524.35	4301524.57	0.0088	0.0012
Mercury	7065-04-23 18:14 G	4301611.19	4301611.26	4301611.36	0.0088	0.0076
Mercury	7065-07-20 21:07 G	4301699.35	4301699.38	4301699.44	0.0088	0.0085
Venus	7065-09-09 08:38 G	4301749.66	4301749.86	4301750.08	0.0088	0.0030
Venus	7066-04-22 21:36 G	4301975.22	4301975.40	4301975.59	0.0088	0.0047
Venus	7066-12-04 09:36 G	4302200.78	4302200.90	4302201.07	0.0088	0.0065
Venus	7067-07-17 22:33 G	4302426.37	4302426.44	4302426.52	0.0088	0.0082
Earth	7099-09-15 17:45 G	4314174.23	4314174.24	4314174.30	0.0088	0.0087
Moon	7099-09-15 20:09 G	4314174.33	4314174.34	4314174.38	0.0088	0.0088
Moon	7100-09-18 02:52 G	4314541.49	4314541.62	4314541.80	0.0088	0.0072
Earth	7100-09-18 06:43 G	4314541.64	4314541.78	4314541.95	0.0088	0.0071 *
Earth	7101-09-20 18:43 G	4314909.10	4314909.28	4314909.51	0.0088	0.0055
Moon	7101-09-20 22:19 G	4314909.25	4314909.43	4314909.65	0.0088	0.0055 *
Moon	7102-09-23 04:04 G	4315276.45	4315276.67	4315276.92	0.0088	0.0037
Earth	7102-09-23 07:40 G	4315276.60	4315276.82	4315277.08	0.0088	0.0038 *
Earth	7103-09-25 20:38 G	4315644.11	4315644.36	4315644.62	0.0088	0.0020

Moon	7103-09-25 23:45 G	4315644.24	4315644.49	4315644.76	0.0088	0.0021	*
Moon	7104-09-27 06:57 G	4316011.54	4316011.79	4316012.05	0.0088	0.0003	
Earth	7104-09-27 09:21 G	4316011.63	4316011.89	4316012.15	0.0088	0.0003	*
Earth	7105-09-29 22:04 G	4316379.16	4316379.42	4316379.68	0.0088	0.0014	
Moon	7105-09-29 23:45 G	4316379.23	4316379.49	4316379.76	0.0088	0.0012	*
Earth	7106-10-02 11:02 G	4316746.71	4316746.96	4316747.21	0.0088	0.0031	
Moon	7106-10-02 11:02 G	4316746.73	4316746.96	4316747.20	0.0088	0.0032	*
Moon	7107-10-04 22:48 G	4317114.23	4317114.45	4317114.69	0.0088	0.0047	
Earth	7107-10-05 00:00 G	4317114.28	4317114.50	4317114.72	0.0088	0.0048	*
Earth	7108-10-06 12:43 G	4317481.87	4317482.03	4317482.22	0.0088	0.0065	
Moon	7108-10-06 14:38 G	4317481.96	4317482.11	4317482.29	0.0088	0.0067	*
Moon	7109-10-08 22:19 G	4317849.34	4317849.43	4317849.56	0.0088	0.0081	
Earth	7109-10-09 01:40 G	4317849.49	4317849.57	4317849.68	0.0088	0.0082	*
Mars	7125-05-12 06:57 G	4323543.78	4323543.79	4323543.85	0.0089	0.0088	
Mars	7127-04-05 19:55 G	4324237.05	4324237.33	4324237.62	0.0089	0.0003	
Mars	7129-02-27 08:38 G	4324930.78	4324930.86	4324930.99	0.0089	0.0083	
Mercury	7143-04-01 06:14 G	4330076.73	4330076.76	4330076.82	0.0089	0.0084	
Mercury	7143-06-28 07:55 G	4330164.77	4330164.83	4330164.92	0.0089	0.0077	
Mercury	7143-09-24 10:04 G	4330252.83	4330252.92	4330253.01	0.0089	0.0069	
Mercury	7143-12-21 11:31 G	4330340.89	4330340.98	4330341.09	0.0089	0.0062	
Mercury	7144-03-18 13:26 G	4330428.95	4330429.06	4330429.17	0.0089	0.0054	
Mercury	7144-06-14 14:52 G	4330517.01	4330517.12	4330517.25	0.0089	0.0047	
Mercury	7144-09-10 16:48 G	4330605.07	4330605.20	4330605.33	0.0089	0.0039	
Venus	7144-09-25 00:14 G	4330619.42	4330619.51	4330619.64	0.0089	0.0077	
Mercury	7144-12-07 18:28 G	4330693.14	4330693.27	4330693.40	0.0089	0.0031	
Mercury	7145-03-05 20:09 G	4330781.20	4330781.34	4330781.48	0.0089	0.0024	
Venus	7145-05-08 14:09 G	4330844.92	4330845.09	4330845.26	0.0089	0.0058	
Mercury	7145-06-01 21:50 G	4330869.27	4330869.41	4330869.55	0.0089	0.0017	
Mercury	7145-08-28 23:31 G	4330957.34	4330957.48	4330957.62	0.0089	0.0009	
Mercury	7145-11-25 01:11 G	4331045.41	4331045.55	4331045.69	0.0089	0.0002	

Venus	7145-12-20 03:07 G	4331070.45	4331070.63	4331070.84	0.0089	0.0040
Mercury	7146-02-21 02:38 G	4331133.47	4331133.61	4331133.76	0.0089	0.0007
Mercury	7146-05-20 04:19 G	4331221.54	4331221.68	4331221.83	0.0089	0.0013
Venus	7146-08-02 16:48 G	4331295.99	4331296.20	4331296.42	0.0089	0.0021
Mercury	7146-08-16 06:00 G	4331309.62	4331309.75	4331309.89	0.0089	0.0020
Mercury	7146-11-12 07:40 G	4331397.69	4331397.82	4331397.95	0.0089	0.0028
Mercury	7147-02-08 09:21 G	4331485.76	4331485.89	4331486.02	0.0089	0.0035
Venus	7147-03-16 06:14 G	4331521.54	4331521.76	4331521.98	0.0089	0.0002
Mercury	7147-05-07 10:48 G	4331573.83	4331573.95	4331574.08	0.0089	0.0042
Mercury	7147-08-03 12:28 G	4331661.91	4331662.02	4331662.14	0.0089	0.0049
Venus	7147-10-27 19:55 G	4331747.11	4331747.33	4331747.54	0.0089	0.0017
Mercury	7147-10-30 14:09 G	4331749.98	4331750.09	4331750.20	0.0089	0.0057
Mercury	7148-01-26 15:36 G	4331838.06	4331838.15	4331838.25	0.0089	0.0064
Mercury	7148-04-23 17:02 G	4331926.14	4331926.21	4331926.31	0.0089	0.0072
Venus	7148-06-09 09:07 G	4331972.69	4331972.88	4331973.09	0.0089	0.0036
Mercury	7148-07-20 18:43 G	4332014.23	4332014.28	4332014.36	0.0089	0.0078
Mercury	7148-10-16 20:09 G	4332102.32	4332102.34	4332102.40	0.0089	0.0086
Venus	7149-01-20 22:19 G	4332198.27	4332198.43	4332198.62	0.0089	0.0055
Venus	7149-09-03 12:00 G	4332423.88	4332424.00	4332424.13	0.0089	0.0073
Earth	7181-03-18 21:21 G	4343943.34	4343943.39	4343943.50	0.0089	0.0084
Moon	7181-03-18 22:48 G	4343943.39	4343943.45	4343943.53	0.0089	0.0086 *
Moon	7182-03-21 06:14 G	4344310.61	4344310.76	4344310.97	0.0089	0.0067
Earth	7182-03-21 08:23 G	4344310.70	4344310.85	4344311.03	0.0089	0.0067 *
Earth	7183-03-23 19:11 G	4344678.10	4344678.30	4344678.51	0.0089	0.0050
Moon	7183-03-23 21:50 G	4344678.22	4344678.41	4344678.62	0.0089	0.0051 *
Moon	7184-03-25 02:09 G	4345045.37	4345045.59	4345045.84	0.0089	0.0032
Earth	7184-03-25 05:45 G	4345045.52	4345045.74	4345045.99	0.0089	0.0034 *
Earth	7185-03-27 16:33 G	4345412.95	4345413.19	4345413.45	0.0089	0.0017
Moon	7185-03-27 20:09 G	4345413.09	4345413.34	4345413.59	0.0089	0.0017 *
Moon	7186-03-30 00:00 G	4345780.25	4345780.50	4345780.75	0.0089	0.0000

Earth	7186-03-30 03:21 G	4345780.39	4345780.64	4345780.90	0.0089	0.0001	*
Earth	7187-04-01 13:40 G	4346147.83	4346148.07	4346148.33	0.0089	0.0017	
Moon	7187-04-01 16:04 G	4346147.92	4346148.17	4346148.44	0.0089	0.0016	*
Moon	7188-04-02 22:48 G	4346515.24	4346515.45	4346515.69	0.0089	0.0034	
Earth	7188-04-03 00:00 G	4346515.29	4346515.50	4346515.76	0.0089	0.0034	*
Earth	7189-04-05 10:48 G	4346882.75	4346882.95	4346883.17	0.0089	0.0050	
Moon	7189-04-05 11:02 G	4346882.76	4346882.96	4346883.19	0.0089	0.0050	*
Earth	7190-04-07 20:52 G	4347250.23	4347250.37	4347250.56	0.0089	0.0067	
Moon	7190-04-07 22:04 G	4347250.29	4347250.42	4347250.61	0.0089	0.0068	*
Moon	7191-04-10 05:16 G	4347617.63	4347617.72	4347617.83	0.0089	0.0082	
Earth	7191-04-10 07:11 G	4347617.73	4347617.80	4347617.91	0.0089	0.0083	*
Mars	7207-02-23 14:38 G	4353416.01	4353416.11	4353416.24	0.0088	0.0083	
Mars	7209-01-20 01:11 G	4354112.22	4354112.55	4354112.90	0.0088	0.0019	
Jupiter	7211-12-11 22:33 G	4355168.02	4355168.44	4355168.94	0.0088	0.0052	
Mercury	7225-06-20 11:16 G	4360107.96	4360107.97	4360108.00	0.0088	0.0087	
Mercury	7225-09-16 13:40 G	4360196.01	4360196.07	4360196.16	0.0088	0.0079	
Mercury	7225-12-13 16:19 G	4360284.10	4360284.18	4360284.30	0.0088	0.0071	
Mercury	7226-03-11 19:26 G	4360372.19	4360372.31	4360372.44	0.0088	0.0062	
Venus	7226-03-30 13:40 G	4360391.05	4360391.07	4360391.14	0.0088	0.0086	
Mercury	7226-06-07 21:50 G	4360460.29	4360460.41	4360460.57	0.0088	0.0054	
Mercury	7226-09-04 00:57 G	4360548.39	4360548.54	4360548.69	0.0088	0.0045	
Venus	7226-11-11 02:38 G	4360616.48	4360616.61	4360616.76	0.0088	0.0068	
Mercury	7226-12-01 03:21 G	4360636.50	4360636.64	4360636.81	0.0088	0.0037	
Mercury	7227-02-27 06:28 G	4360724.60	4360724.77	4360724.94	0.0088	0.0028	
Mercury	7227-05-26 09:07 G	4360812.71	4360812.88	4360813.06	0.0088	0.0020	
Venus	7227-06-24 15:21 G	4360841.96	4360842.14	4360842.32	0.0088	0.0050	
Mercury	7227-08-22 12:00 G	4360900.83	4360901.00	4360901.18	0.0088	0.0011	
Mercury	7227-11-18 14:52 G	4360988.94	4360989.12	4360989.29	0.0088	0.0003	
Venus	7228-02-05 03:36 G	4361067.46	4361067.65	4361067.87	0.0088	0.0033	
Mercury	7228-02-14 17:31 G	4361077.06	4361077.23	4361077.41	0.0088	0.0007	

Mercury	7228-05-12 20:23 G	4361165.18	4361165.35	4361165.53	0.0088	0.0015
Mercury	7228-08-08 23:02 G	4361253.30	4361253.46	4361253.64	0.0088	0.0024
Venus	7228-09-17 16:33 G	4361292.97	4361293.19	4361293.41	0.0088	0.0015
Mercury	7228-11-05 01:55 G	4361341.42	4361341.58	4361341.75	0.0088	0.0033
Mercury	7229-02-01 04:33 G	4361429.55	4361429.69	4361429.86	0.0088	0.0042
Mercury	7229-04-30 07:40 G	4361517.68	4361517.82	4361517.97	0.0088	0.0050
Venus	7229-05-01 05:16 G	4361518.50	4361518.72	4361518.94	0.0088	0.0003
Mercury	7229-07-27 10:19 G	4361605.81	4361605.93	4361606.07	0.0088	0.0059
Mercury	7229-10-23 13:11 G	4361693.95	4361694.05	4361694.17	0.0088	0.0068
Venus	7229-12-12 17:45 G	4361744.03	4361744.24	4361744.46	0.0088	0.0020
Mercury	7230-01-19 16:04 G	4361782.10	4361782.17	4361782.27	0.0088	0.0077
Mercury	7230-04-17 18:43 G	4361870.27	4361870.28	4361870.34	0.0088	0.0086
Venus	7230-07-26 06:00 G	4361969.56	4361969.75	4361969.96	0.0088	0.0038
Venus	7231-03-08 18:14 G	4362195.12	4362195.26	4362195.45	0.0088	0.0056
Venus	7231-10-20 07:11 G	4362420.69	4362420.80	4362420.93	0.0088	0.0073
Earth	7264-09-17 09:50 G	4374441.81	4374441.91	4374442.03	0.0088	0.0079
Moon	7264-09-17 13:40 G	4374441.94	4374442.07	4374442.22	0.0088	0.0075 *
Moon	7265-09-19 19:26 G	4374809.16	4374809.31	4374809.49	0.0088	0.0067
Earth	7265-09-19 22:19 G	4374809.27	4374809.43	4374809.64	0.0088	0.0063 *
Earth	7266-09-22 11:16 G	4375176.76	4375176.97	4375177.20	0.0088	0.0047
Moon	7266-09-22 13:55 G	4375176.87	4375177.08	4375177.34	0.0088	0.0043 *
Moon	7267-09-24 22:19 G	4375544.21	4375544.43	4375544.67	0.0088	0.0035
Earth	7267-09-25 00:14 G	4375544.26	4375544.51	4375544.76	0.0088	0.0030 *
Earth	7268-09-26 12:43 G	4375911.78	4375912.03	4375912.30	0.0088	0.0013
Moon	7268-09-26 13:11 G	4375911.78	4375912.05	4375912.32	0.0088	0.0009 *
Earth	7269-09-29 01:26 G	4376279.30	4376279.56	4376279.83	0.0088	0.0004
Moon	7269-09-29 01:55 G	4376279.33	4376279.58	4376279.83	0.0088	0.0001 *
Moon	7270-10-01 12:00 G	4376646.76	4376647.00	4376647.27	0.0088	0.0025
Earth	7270-10-01 14:09 G	4376646.84	4376647.09	4376647.35	0.0088	0.0021 *
Earth	7271-10-04 02:38 G	4377014.39	4377014.61	4377014.87	0.0088	0.0038



Moon	7271-10-04 05:31 G	4377014.51	4377014.73	4377014.98	0.0088	0.0033 *
Moon	7272-10-05 12:00 G	4377381.83	4377382.00	4377382.22	0.0088	0.0059
Earth	7272-10-05 15:50 G	4377381.96	4377382.16	4377382.37	0.0088	0.0054 *
Earth	7273-10-08 04:19 G	4377749.54	4377749.68	4377749.86	0.0088	0.0071
Moon	7273-10-08 08:23 G	4377749.69	4377749.85	4377750.03	0.0088	0.0066 *
Earth	7274-10-10 17:02 G	4378117.21	4378117.21	4378117.29	0.0088	0.0088
Mars	7290-11-19 02:09 G	4384000.35	4384000.59	4384000.84	0.0089	0.0046
Mars	7292-10-12 14:38 G	4384693.87	4384694.11	4384694.38	0.0089	0.0039
Mercury	7307-12-28 04:48 G	4390247.67	4390247.70	4390247.76	0.0089	0.0084
Mercury	7308-03-25 06:43 G	4390335.71	4390335.78	4390335.86	0.0089	0.0077
Mercury	7308-06-21 08:38 G	4390423.77	4390423.86	4390423.95	0.0089	0.0069
Mercury	7308-09-17 10:04 G	4390511.83	4390511.92	4390512.03	0.0089	0.0062
Mercury	7308-12-14 12:00 G	4390599.89	4390600.00	4390600.11	0.0089	0.0054
Venus	7308-12-28 07:26 G	4390613.78	4390613.81	4390613.86	0.0089	0.0088
Mercury	7309-03-12 13:26 G	4390687.95	4390688.06	4390688.19	0.0089	0.0047
Mercury	7309-06-08 15:21 G	4390776.01	4390776.14	4390776.27	0.0089	0.0039
Venus	7309-08-10 20:38 G	4390839.24	4390839.36	4390839.52	0.0089	0.0069
Mercury	7309-09-04 17:02 G	4390864.08	4390864.21	4390864.35	0.0089	0.0031
Mercury	7309-12-01 18:43 G	4390952.14	4390952.28	4390952.42	0.0089	0.0024
Mercury	7310-02-27 20:23 G	4391040.21	4391040.35	4391040.49	0.0089	0.0017
Venus	7310-03-24 10:04 G	4391064.75	4391064.92	4391065.12	0.0089	0.0051
Mercury	7310-05-26 22:04 G	4391128.28	4391128.42	4391128.56	0.0089	0.0009
Mercury	7310-08-22 23:45 G	4391216.35	4391216.49	4391216.63	0.0089	0.0002
Venus	7310-11-04 23:45 G	4391290.29	4391290.49	4391290.70	0.0089	0.0032
Mercury	7310-11-19 01:26 G	4391304.42	4391304.56	4391304.70	0.0089	0.0006
Mercury	7311-02-15 02:52 G	4391392.49	4391392.62	4391392.77	0.0089	0.0014
Mercury	7311-05-14 04:33 G	4391480.56	4391480.69	4391480.83	0.0089	0.0021
Venus	7311-06-18 13:11 G	4391515.84	4391516.05	4391516.27	0.0089	0.0013
Mercury	7311-08-10 06:14 G	4391568.63	4391568.76	4391568.90	0.0089	0.0028
Mercury	7311-11-06 07:55 G	4391656.70	4391656.83	4391656.96	0.0089	0.0035

Venus	7312-01-30 02:38 G	4391741.39	4391741.61	4391741.83	0.0089	0.0006
Mercury	7312-02-02 09:21 G	4391744.78	4391744.89	4391745.02	0.0089	0.0043
Mercury	7312-04-30 11:02 G	4391832.85	4391832.96	4391833.08	0.0089	0.0050
Mercury	7312-07-27 12:43 G	4391920.93	4391921.03	4391921.14	0.0089	0.0057
Venus	7312-09-11 15:50 G	4391966.96	4391967.16	4391967.38	0.0089	0.0025
Mercury	7312-10-23 14:23 G	4392009.01	4392009.10	4392009.20	0.0089	0.0064
Mercury	7313-01-19 16:04 G	4392097.09	4392097.17	4392097.25	0.0089	0.0071
Mercury	7313-04-17 17:16 G	4392185.17	4392185.22	4392185.30	0.0089	0.0079
Venus	7313-04-25 05:16 G	4392192.54	4392192.72	4392192.92	0.0089	0.0043
Mercury	7313-07-14 18:57 G	4392273.26	4392273.29	4392273.34	0.0089	0.0085
Venus	7313-12-06 18:57 G	4392418.13	4392418.29	4392418.45	0.0089	0.0062
Venus	7314-07-20 07:55 G	4392643.76	4392643.83	4392643.94	0.0089	0.0081
Moon	7345-03-19 00:43 G	4403843.52	4403843.53	4403843.59	0.0089	0.0088
Earth	7346-03-21 13:55 G	4404210.98	4404211.08	4404211.24	0.0089	0.0077
Moon	7346-03-21 17:02 G	4404211.13	4404211.21	4404211.34	0.0089	0.0081 *
Moon	7347-03-23 21:21 G	4404578.21	4404578.39	4404578.61	0.0089	0.0056
Earth	7347-03-24 00:43 G	4404578.37	4404578.53	4404578.74	0.0089	0.0060 *
Earth	7348-03-25 11:31 G	4404945.78	4404945.98	4404946.22	0.0089	0.0043
Moon	7348-03-25 15:21 G	4404945.93	4404946.14	4404946.36	0.0089	0.0048 *
Moon	7349-03-27 19:55 G	4405313.09	4405313.33	4405313.57	0.0089	0.0022
Earth	7349-03-27 22:19 G	4405313.20	4405313.43	4405313.69	0.0089	0.0027 *
Earth	7350-03-30 09:07 G	4405680.63	4405680.88	4405681.14	0.0089	0.0010
Moon	7350-03-30 11:31 G	4405680.72	4405680.98	4405681.24	0.0089	0.0014 *
Moon	7351-04-01 18:57 G	4406048.05	4406048.29	4406048.54	0.0089	0.0011
Earth	7351-04-01 19:40 G	4406048.07	4406048.32	4406048.58	0.0089	0.0007 *
Moon	7352-04-03 05:45 G	4406415.49	4406415.74	4406416.00	0.0089	0.0019
Earth	7352-04-03 06:14 G	4406415.52	4406415.76	4406416.01	0.0089	0.0023 *
Earth	7353-04-05 16:33 G	4406782.98	4406783.19	4406783.44	0.0089	0.0040
Moon	7353-04-05 18:14 G	4406783.05	4406783.26	4406783.48	0.0089	0.0044 *
Moon	7354-04-08 00:00 G	4407150.31	4407150.50	4407150.74	0.0089	0.0052

Earth	7354-04-08 03:07 G	4407150.45	4407150.63	4407150.84	0.0089	0.0056 *
Earth	7355-04-10 13:40 G	4407517.93	4407518.07	4407518.23	0.0089	0.0072
Moon	7355-04-10 16:33 G	4407518.09	4407518.19	4407518.34	0.0089	0.0077 *
Moon	7356-04-11 20:09 G	4407885.28	4407885.34	4407885.45	0.0089	0.0084
Earth	7356-04-11 23:45 G	4407885.49	4407885.49	4407885.54	0.0089	0.0089
Mars	7372-09-03 00:14 G	4413873.21	4413873.51	4413873.86	0.0088	0.0032
Mars	7374-07-31 11:31 G	4414569.77	4414569.98	4414570.19	0.0088	0.0071
Mercury	7390-03-18 09:07 G	4420278.86	4420278.88	4420278.92	0.0088	0.0086
Mercury	7390-06-14 11:45 G	4420366.92	4420366.99	4420367.08	0.0088	0.0078
Mercury	7390-09-10 14:23 G	4420455.01	4420455.10	4420455.22	0.0088	0.0070
Mercury	7390-12-07 17:16 G	4420543.10	4420543.22	4420543.35	0.0088	0.0061
Venus	7391-02-13 10:48 G	4420610.87	4420610.95	4420611.08	0.0088	0.0078
Mercury	7391-03-05 19:55 G	4420631.20	4420631.33	4420631.48	0.0088	0.0053
Mercury	7391-06-01 22:48 G	4420719.30	4420719.45	4420719.60	0.0088	0.0044
Mercury	7391-08-29 01:26 G	4420807.41	4420807.56	4420807.73	0.0088	0.0036
Venus	7391-09-26 23:45 G	4420836.34	4420836.49	4420836.66	0.0088	0.0060
Mercury	7391-11-25 04:19 G	4420895.51	4420895.68	4420895.85	0.0088	0.0027
Mercury	7392-02-21 06:57 G	4420983.62	4420983.79	4420983.97	0.0088	0.0019
Venus	7392-05-09 12:43 G	4421061.84	4421062.03	4421062.22	0.0088	0.0042
Mercury	7392-05-19 09:50 G	4421071.74	4421071.91	4421072.09	0.0088	0.0010
Mercury	7392-08-15 12:43 G	4421159.85	4421160.03	4421160.20	0.0088	0.0002
Mercury	7392-11-11 15:21 G	4421247.97	4421248.14	4421248.32	0.0088	0.0007
Venus	7392-12-21 01:11 G	4421287.34	4421287.55	4421287.77	0.0088	0.0025
Mercury	7393-02-07 18:14 G	4421336.08	4421336.26	4421336.43	0.0088	0.0016
Mercury	7393-05-06 20:52 G	4421424.21	4421424.37	4421424.55	0.0088	0.0025
Mercury	7393-08-02 23:31 G	4421512.33	4421512.48	4421512.66	0.0088	0.0034
Venus	7393-08-03 13:55 G	4421512.86	4421513.08	4421513.30	0.0088	0.0007
Mercury	7393-10-30 02:38 G	4421600.46	4421600.61	4421600.77	0.0088	0.0042
Mercury	7394-01-26 05:16 G	4421688.59	4421688.72	4421688.87	0.0088	0.0051
Venus	7394-03-17 02:23 G	4421738.38	4421738.60	4421738.82	0.0088	0.0011

Mercury	7394-04-24 08:09 G	4421776.72	4421776.84	4421776.98	0.0088	0.0060
Mercury	7394-07-21 10:48 G	4421864.86	4421864.95	4421865.08	0.0088	0.0069
Mercury	7394-10-17 13:40 G	4421953.01	4421953.07	4421953.17	0.0088	0.0078
Venus	7394-10-28 14:52 G	4421963.92	4421964.12	4421964.34	0.0088	0.0029
Mercury	7395-01-13 16:33 G	4422041.18	4422041.19	4422041.24	0.0088	0.0087
Venus	7395-06-11 03:36 G	4422189.47	4422189.65	4422189.84	0.0088	0.0046
Venus	7396-01-22 15:50 G	4422415.02	4422415.16	4422415.32	0.0088	0.0064
Venus	7396-09-04 04:04 G	4422640.62	4422640.67	4422640.78	0.0088	0.0082
Moon	7428-09-18 10:33 G	4434341.91	4434341.94	4434342.00	0.0088	0.0087
Earth	7428-09-18 13:26 G	4434342.06	4434342.06	4434342.10	0.0088	0.0088
Earth	7429-09-21 02:23 G	4434709.46	4434709.60	4434709.76	0.0088	0.0072
Moon	7429-09-21 03:50 G	4434709.54	4434709.66	4434709.83	0.0088	0.0073 *
Moon	7430-09-23 13:26 G	4435076.89	4435077.06	4435077.28	0.0088	0.0056
Earth	7430-09-23 14:52 G	4435076.93	4435077.12	4435077.34	0.0088	0.0056 *
Moon	7431-09-26 03:07 G	4435444.42	4435444.63	4435444.90	0.0088	0.0041
Earth	7431-09-26 03:21 G	4435444.43	4435444.64	4435444.90	0.0088	0.0040 *
Earth	7432-09-27 16:19 G	4435811.93	4435812.18	4435812.44	0.0088	0.0023
Moon	7432-09-27 18:00 G	4435812.01	4435812.25	4435812.50	0.0088	0.0021 *
Moon	7433-09-30 02:38 G	4436179.35	4436179.61	4436179.89	0.0088	0.0007
Earth	7433-09-30 05:02 G	4436179.46	4436179.71	4436179.98	0.0088	0.0007 *
Earth	7434-10-02 17:45 G	4436546.98	4436547.24	4436547.50	0.0088	0.0010
Moon	7434-10-02 21:07 G	4436547.13	4436547.38	4436547.64	0.0088	0.0011 *
Moon	7435-10-05 02:52 G	4436914.37	4436914.62	4436914.87	0.0088	0.0026
Earth	7435-10-05 06:00 G	4436914.52	4436914.75	4436915.02	0.0088	0.0028 *
Earth	7436-10-06 18:57 G	4437282.07	4437282.29	4437282.53	0.0088	0.0044
Moon	7436-10-06 22:19 G	4437282.22	4437282.43	4437282.68	0.0088	0.0043 *
Moon	7437-10-09 04:19 G	4437649.52	4437649.68	4437649.89	0.0088	0.0061
Earth	7437-10-09 08:09 G	4437649.65	4437649.84	4437650.03	0.0088	0.0060 *
Earth	7438-10-11 20:23 G	4438017.24	4438017.35	4438017.50	0.0088	0.0077
Moon	7438-10-11 22:33 G	4438017.33	4438017.44	4438017.60	0.0088	0.0077 *

Mars	7454-07-06 08:23 G	4443763.85	4443763.85	4443763.86	0.0089	0.0089
Mars	7456-05-29 22:33 G	4444457.15	4444457.44	4444457.73	0.0089	0.0004
Mars	7458-04-23 10:19 G	4445150.83	4445150.93	4445151.06	0.0089	0.0081
Mercury	7472-09-24 03:21 G	4450418.61	4450418.64	4450418.70	0.0089	0.0084
Mercury	7472-12-21 05:16 G	4450506.66	4450506.72	4450506.80	0.0089	0.0076
Mercury	7473-03-19 07:11 G	4450594.71	4450594.80	4450594.89	0.0089	0.0069
Mercury	7473-06-15 08:38 G	4450682.77	4450682.86	4450682.98	0.0089	0.0062
Mercury	7473-09-11 10:33 G	4450770.83	4450770.94	4450771.06	0.0089	0.0054
Venus	7473-11-13 03:36 G	4450833.59	4450833.65	4450833.78	0.0089	0.0081
Mercury	7473-12-08 12:14 G	4450858.89	4450859.01	4450859.14	0.0089	0.0046
Mercury	7474-03-06 13:55 G	4450946.96	4450947.08	4450947.21	0.0089	0.0039
Mercury	7474-06-02 15:36 G	4451035.02	4451035.15	4451035.29	0.0089	0.0031
Venus	7474-06-26 17:16 G	4451059.08	4451059.22	4451059.40	0.0089	0.0062
Mercury	7474-08-29 17:31 G	4451123.09	4451123.23	4451123.36	0.0089	0.0024
Mercury	7474-11-25 18:57 G	4451211.16	4451211.29	4451211.44	0.0089	0.0017
Venus	7475-02-07 06:57 G	4451284.60	4451284.79	4451284.99	0.0089	0.0043
Mercury	7475-02-21 20:38 G	4451299.22	4451299.36	4451299.51	0.0089	0.0010
Mercury	7475-05-20 22:19 G	4451387.29	4451387.43	4451387.58	0.0089	0.0003
Mercury	7475-08-17 00:00 G	4451475.36	4451475.50	4451475.65	0.0089	0.0006
Venus	7475-09-20 20:23 G	4451510.14	4451510.35	4451510.57	0.0089	0.0024
Mercury	7475-11-13 01:40 G	4451563.43	4451563.57	4451563.71	0.0089	0.0013
Mercury	7476-02-09 03:21 G	4451651.50	4451651.64	4451651.78	0.0089	0.0020
Venus	7476-05-03 09:50 G	4451735.69	4451735.91	4451736.13	0.0089	0.0005
Mercury	7476-05-07 05:02 G	4451739.58	4451739.71	4451739.84	0.0089	0.0028
Mercury	7476-08-03 06:28 G	4451827.65	4451827.77	4451827.91	0.0089	0.0035
Mercury	7476-10-30 08:09 G	4451915.72	4451915.84	4451915.97	0.0089	0.0042
Venus	7476-12-14 23:16 G	4451961.25	4451961.47	4451961.69	0.0089	0.0014
Mercury	7477-01-26 09:50 G	4452003.80	4452003.91	4452004.03	0.0089	0.0050
Mercury	7477-04-24 11:31 G	4452091.87	4452091.98	4452092.09	0.0089	0.0057
Mercury	7477-07-21 13:11 G	4452179.95	4452180.05	4452180.15	0.0089	0.0064

Venus	7477-07-28 12:14 G	4452186.82	4452187.01	4452187.23	0.0089	0.0033
Mercury	7477-10-17 14:23 G	4452268.03	4452268.10	4452268.20	0.0089	0.0072
Mercury	7478-01-13 16:04 G	4452356.12	4452356.17	4452356.25	0.0089	0.0079
Venus	7478-03-11 01:26 G	4452412.40	4452412.56	4452412.76	0.0089	0.0052
Mercury	7478-04-11 17:45 G	4452444.21	4452444.24	4452444.29	0.0089	0.0086
Venus	7478-10-22 15:36 G	4452638.01	4452638.15	4452638.28	0.0089	0.0070
Venus	7479-06-05 04:33 G	4452863.68	4452863.69	4452863.73	0.0089	0.0089
Moon	7510-03-22 16:04 G	4464111.16	4464111.17	4464111.25	0.0089	0.0089
Earth	7510-03-22 20:09 G	4464111.27	4464111.34	4464111.43	0.0089	0.0085
Earth	7511-03-25 06:57 G	4464478.63	4464478.79	4464478.96	0.0089	0.0068
Moon	7511-03-25 09:50 G	4464478.76	4464478.91	4464479.10	0.0089	0.0067 *
Moon	7512-03-26 15:21 G	4464845.94	4464846.14	4464846.33	0.0089	0.0055
Earth	7512-03-26 17:31 G	4464846.04	4464846.23	4464846.45	0.0089	0.0052 *
Earth	7513-03-29 04:19 G	4465213.46	4465213.68	4465213.92	0.0089	0.0036
Moon	7513-03-29 05:45 G	4465213.50	4465213.74	4465213.98	0.0089	0.0034 *
Moon	7514-03-31 14:38 G	4465580.88	4465581.11	4465581.36	0.0089	0.0021
Earth	7514-03-31 15:07 G	4465580.88	4465581.13	4465581.38	0.0089	0.0020 *
Moon	7515-04-03 00:43 G	4465948.27	4465948.53	4465948.79	0.0089	0.0001
Earth	7515-04-03 01:55 G	4465948.32	4465948.58	4465948.83	0.0089	0.0003 *
Earth	7516-04-04 12:28 G	4466315.77	4466316.02	4466316.27	0.0089	0.0013
Moon	7516-04-04 14:52 G	4466315.87	4466316.12	4466316.37	0.0089	0.0011 *
Moon	7517-04-06 20:09 G	4466683.10	4466683.34	4466683.58	0.0089	0.0031
Earth	7517-04-06 22:48 G	4466683.22	4466683.45	4466683.70	0.0089	0.0030 *
Earth	7518-04-09 09:21 G	4467050.69	4467050.89	4467051.12	0.0089	0.0046
Moon	7518-04-09 12:57 G	4467050.84	4467051.04	4467051.28	0.0089	0.0044 *
Moon	7519-04-11 17:02 G	4467418.04	4467418.21	4467418.39	0.0089	0.0064
Earth	7519-04-11 19:55 G	4467418.17	4467418.33	4467418.53	0.0089	0.0062 *
Earth	7520-04-13 06:28 G	4467785.67	4467785.77	4467785.91	0.0089	0.0078
Moon	7520-04-13 09:36 G	4467785.79	4467785.90	4467786.05	0.0089	0.0077 *
Mars	7536-04-18 00:28 G	4473634.39	4473634.52	4473634.67	0.0088	0.0081

Mars	7538-03-15 10:48 G	4474330.62	4474330.95	4474331.29	0.0088	0.0021
Mercury	7554-12-15 06:57 G	4480449.77	4480449.79	4480449.86	0.0088	0.0085
Mercury	7555-03-13 10:04 G	4480537.84	4480537.92	4480538.01	0.0088	0.0076
Venus	7555-05-19 20:09 G	4480605.33	4480605.34	4480605.38	0.0088	0.0087
Mercury	7555-06-09 12:28 G	4480625.93	4480626.02	4480626.14	0.0088	0.0068
Mercury	7555-09-05 15:07 G	4480714.02	4480714.13	4480714.27	0.0088	0.0060
Mercury	7555-12-02 18:00 G	4480802.12	4480802.25	4480802.40	0.0088	0.0051
Venus	7555-12-31 09:07 G	4480830.75	4480830.88	4480831.01	0.0088	0.0069
Mercury	7556-02-28 20:38 G	4480890.22	4480890.36	4480890.52	0.0088	0.0043
Mercury	7556-05-26 23:31 G	4480978.33	4480978.48	4480978.65	0.0088	0.0034
Venus	7556-08-12 21:21 G	4481056.23	4481056.39	4481056.58	0.0088	0.0052
Mercury	7556-08-23 02:09 G	4481066.43	4481066.59	4481066.77	0.0088	0.0026
Mercury	7556-11-19 05:02 G	4481154.54	4481154.71	4481154.89	0.0088	0.0017
Mercury	7557-02-15 07:55 G	4481242.65	4481242.83	4481243.00	0.0088	0.0008
Venus	7557-03-26 10:04 G	4481281.73	4481281.92	4481282.14	0.0088	0.0034
Mercury	7557-05-14 10:33 G	4481330.77	4481330.94	4481331.12	0.0088	0.0002
Mercury	7557-08-10 13:26 G	4481418.88	4481419.06	4481419.24	0.0088	0.0009
Mercury	7557-11-06 16:04 G	4481507.00	4481507.17	4481507.35	0.0088	0.0018
Venus	7557-11-06 23:02 G	4481507.24	4481507.46	4481507.68	0.0088	0.0016 *
Mercury	7558-02-02 18:57 G	4481595.12	4481595.29	4481595.46	0.0088	0.0026
Mercury	7558-05-01 21:36 G	4481683.25	4481683.40	4481683.57	0.0088	0.0035
Venus	7558-06-20 11:31 G	4481732.76	4481732.98	4481733.21	0.0088	0.0003
Mercury	7558-07-29 00:28 G	4481771.37	4481771.52	4481771.68	0.0088	0.0044
Mercury	7558-10-25 03:07 G	4481859.50	4481859.63	4481859.79	0.0088	0.0053
Mercury	7559-01-21 06:00 G	4481947.64	4481947.75	4481947.89	0.0088	0.0062
Venus	7559-02-01 00:00 G	4481958.29	4481958.50	4481958.72	0.0088	0.0020
Mercury	7559-04-19 09:07 G	4482035.78	4482035.88	4482035.99	0.0088	0.0070
Mercury	7559-07-16 11:45 G	4482123.93	4482123.99	4482124.08	0.0088	0.0079
Venus	7559-09-14 12:43 G	4482183.84	4482184.03	4482184.23	0.0088	0.0037
Venus	7560-04-27 01:11 G	4482409.39	4482409.55	4482409.74	0.0088	0.0055

Venus	7560-12-08 13:40 G	4482634.97	4482635.07	4482635.21	0.0088	0.0073
Moon	7593-09-21 06:57 G	4494609.69	4494609.79	4494609.94	0.0088	0.0076
Earth	7593-09-21 06:43 G	4494609.70	4494609.78	4494609.92	0.0088	0.0080 *
Moon	7594-09-23 18:28 G	4494977.12	4494977.27	4494977.47	0.0088	0.0067
Earth	7594-09-23 20:09 G	4494977.16	4494977.34	4494977.52	0.0088	0.0064 *
Earth	7595-09-26 08:38 G	4495344.64	4495344.86	4495345.08	0.0088	0.0048
Moon	7595-09-26 10:19 G	4495344.71	4495344.93	4495345.16	0.0088	0.0043 *
Moon	7596-09-27 17:45 G	4495712.01	4495712.24	4495712.50	0.0088	0.0036
Earth	7596-09-27 21:07 G	4495712.15	4495712.38	4495712.63	0.0088	0.0032 *
Earth	7597-09-30 09:50 G	4496079.66	4496079.91	4496080.18	0.0088	0.0016
Moon	7597-09-30 13:11 G	4496079.80	4496080.05	4496080.32	0.0088	0.0011 *
Moon	7598-10-02 18:57 G	4496447.03	4496447.29	4496447.55	0.0088	0.0004
Earth	7598-10-02 22:48 G	4496447.18	4496447.45	4496447.71	0.0088	0.0002 *
Earth	7599-10-05 11:02 G	4496814.71	4496814.96	4496815.23	0.0088	0.0018
Moon	7599-10-05 14:38 G	4496814.85	4496815.11	4496815.37	0.0088	0.0022 *
Moon	7600-10-06 21:21 G	4497182.16	4497182.39	4497182.64	0.0088	0.0030
Earth	7600-10-07 00:00 G	4497182.26	4497182.50	4497182.75	0.0088	0.0034 *
Earth	7601-10-09 12:43 G	4497549.82	4497550.03	4497550.25	0.0088	0.0050
Moon	7601-10-09 14:23 G	4497549.90	4497550.10	4497550.33	0.0088	0.0054 *
Moon	7602-10-12 01:11 G	4497917.38	4497917.55	4497917.74	0.0088	0.0062
Earth	7602-10-12 00:57 G	4497917.39	4497917.54	4497917.74	0.0088	0.0067 *
Moon	7603-10-14 12:43 G	4498285.00	4498285.03	4498285.12	0.0088	0.0087
Earth	7603-10-14 13:26 G	4498285.00	4498285.06	4498285.19	0.0088	0.0083 *
Mars	7620-01-14 04:48 G	4504220.48	4504220.70	4504220.97	0.0089	0.0046
Mars	7621-12-07 19:26 G	4504914.05	4504914.31	4504914.57	0.0089	0.0039
Mercury	7637-06-22 02:09 G	4510589.56	4510589.59	4510589.66	0.0089	0.0084
Mercury	7637-09-18 04:04 G	4510677.60	4510677.67	4510677.75	0.0089	0.0076
Mercury	7637-12-15 05:45 G	4510765.66	4510765.74	4510765.84	0.0089	0.0068
Mercury	7638-03-13 07:40 G	4510853.72	4510853.82	4510853.93	0.0089	0.0061
Mercury	7638-06-09 09:07 G	4510941.78	4510941.88	4510942.01	0.0089	0.0054



Mercury	7638-09-05 11:02 G	4511029.84	4511029.96	4511030.09	0.0089	0.0046
Venus	7638-09-29 01:26 G	4511053.44	4511053.56	4511053.70	0.0089	0.0072
Mercury	7638-12-02 12:43 G	4511117.91	4511118.03	4511118.17	0.0089	0.0038
Mercury	7639-02-28 14:23 G	4511205.97	4511206.10	4511206.24	0.0089	0.0031
Venus	7639-05-12 14:23 G	4511278.95	4511279.10	4511279.30	0.0089	0.0054
Mercury	7639-05-27 16:04 G	4511294.04	4511294.17	4511294.32	0.0089	0.0024
Mercury	7639-08-23 18:00 G	4511382.11	4511382.25	4511382.39	0.0089	0.0016
Mercury	7639-11-19 19:40 G	4511470.17	4511470.32	4511470.46	0.0089	0.0008
Venus	7639-12-24 03:50 G	4511504.47	4511504.66	4511504.88	0.0089	0.0035
Mercury	7640-02-15 21:21 G	4511558.24	4511558.39	4511558.53	0.0089	0.0002
Mercury	7640-05-13 23:02 G	4511646.31	4511646.46	4511646.60	0.0089	0.0007
Venus	7640-08-05 17:31 G	4511730.01	4511730.23	4511730.45	0.0089	0.0015
Mercury	7640-08-10 00:28 G	4511734.38	4511734.52	4511734.67	0.0089	0.0014
Mercury	7640-11-06 02:09 G	4511822.46	4511822.59	4511822.73	0.0089	0.0021
Mercury	7641-02-02 03:50 G	4511910.53	4511910.66	4511910.80	0.0089	0.0028
Venus	7641-03-19 06:57 G	4511955.57	4511955.79	4511956.01	0.0089	0.0004
Mercury	7641-05-01 05:31 G	4511998.60	4511998.73	4511998.86	0.0089	0.0036
Mercury	7641-07-28 07:11 G	4512086.68	4512086.80	4512086.92	0.0089	0.0043
Mercury	7641-10-24 08:38 G	4512174.75	4512174.86	4512174.98	0.0089	0.0050
Venus	7641-10-30 20:09 G	4512181.14	4512181.34	4512181.56	0.0089	0.0022
Mercury	7642-01-20 10:19 G	4512262.83	4512262.93	4512263.04	0.0089	0.0057
Mercury	7642-04-18 11:45 G	4512350.91	4512350.99	4512351.10	0.0089	0.0065
Venus	7642-06-13 09:36 G	4512406.71	4512406.90	4512407.10	0.0089	0.0041
Mercury	7642-07-15 13:26 G	4512438.99	4512439.06	4512439.15	0.0089	0.0072
Mercury	7642-10-11 15:07 G	4512527.07	4512527.13	4512527.20	0.0089	0.0079
Mercury	7643-01-07 16:48 G	4512615.17	4512615.20	4512615.24	0.0089	0.0086
Venus	7643-01-24 22:48 G	4512632.30	4512632.45	4512632.62	0.0089	0.0060
Venus	7643-09-07 12:00 G	4512857.91	4512858.00	4512858.12	0.0089	0.0079
Moon	7675-03-24 11:16 G	4524378.88	4524378.97	4524379.09	0.0089	0.0081
Earth	7675-03-24 12:57 G	4524378.94	4524379.04	4524379.19	0.0089	0.0077 *

Earth	7676-03-25 23:45 G	4524746.33	4524746.49	4524746.70	0.0089	0.0062
Moon	7676-03-26 00:57 G	4524746.36	4524746.54	4524746.76	0.0089	0.0057 *
Earth	7677-03-28 10:33 G	4525113.74	4525113.94	4525114.18	0.0089	0.0045
Moon	7677-03-28 11:31 G	4525113.78	4525113.98	4525114.19	0.0089	0.0048 *
Moon	7678-03-30 19:55 G	4525481.08	4525481.33	4525481.59	0.0089	0.0026
Earth	7678-03-30 21:21 G	4525481.16	4525481.39	4525481.65	0.0089	0.0029 *
Earth	7679-04-02 08:23 G	4525848.60	4525848.85	4525849.10	0.0089	0.0013
Moon	7679-04-02 10:33 G	4525848.71	4525848.94	4525849.20	0.0089	0.0017 *
Moon	7680-04-03 15:21 G	4526215.89	4526216.14	4526216.40	0.0089	0.0007
Earth	7680-04-03 18:57 G	4526216.04	4526216.29	4526216.54	0.0089	0.0004 *
Earth	7681-04-06 05:16 G	4526583.48	4526583.72	4526583.98	0.0089	0.0020
Moon	7681-04-06 08:38 G	4526583.62	4526583.86	4526584.12	0.0089	0.0016 *
Moon	7682-04-08 12:14 G	4526950.80	4526951.01	4526951.25	0.0089	0.0040
Earth	7682-04-08 15:50 G	4526950.94	4526951.16	4526951.40	0.0089	0.0036 *
Earth	7683-04-11 02:09 G	4527318.40	4527318.59	4527318.82	0.0089	0.0052
Moon	7683-04-11 04:48 G	4527318.50	4527318.70	4527318.93	0.0089	0.0048 *
Moon	7684-04-12 11:02 G	4527685.84	4527685.96	4527686.13	0.0089	0.0072
Earth	7684-04-12 12:43 G	4527685.89	4527686.03	4527686.22	0.0089	0.0068 *
Moon	7685-04-15 00:14 G	4528053.40	4528053.51	4528053.64	0.0089	0.0079
Earth	7685-04-14 23:02 G	4528053.41	4528053.46	4528053.58	0.0089	0.0084 *
Mars	7701-10-27 12:14 G	4534091.71	4534092.01	4534092.36	0.0088	0.0029
Mars	7703-09-23 23:02 G	4534788.29	4534788.46	4534788.67	0.0088	0.0074
Mercury	7719-09-12 05:16 G	4540620.68	4540620.72	4540620.79	0.0088	0.0083
Mercury	7719-12-09 07:55 G	4540708.76	4540708.83	4540708.94	0.0088	0.0075
Mercury	7720-03-06 10:48 G	4540796.85	4540796.95	4540797.07	0.0088	0.0066
Venus	7720-04-03 17:45 G	4540825.17	4540825.24	4540825.36	0.0088	0.0079
Mercury	7720-06-02 13:26 G	4540884.94	4540885.06	4540885.20	0.0088	0.0058
Mercury	7720-08-29 16:04 G	4540973.04	4540973.17	4540973.32	0.0088	0.0050
Venus	7720-11-15 06:28 G	4541050.63	4541050.77	4541050.95	0.0088	0.0061
Mercury	7720-11-25 18:57 G	4541061.14	4541061.29	4541061.45	0.0088	0.0041

Mercury	7721-02-21 21:36 G	4541149.24	4541149.40	4541149.57	0.0088	0.0033
Mercury	7721-05-21 00:28 G	4541237.35	4541237.52	4541237.69	0.0088	0.0024
Venus	7721-06-28 19:11 G	4541276.12	4541276.30	4541276.50	0.0088	0.0043
Mercury	7721-08-17 03:07 G	4541325.46	4541325.63	4541325.81	0.0088	0.0016
Mercury	7721-11-13 06:00 G	4541413.57	4541413.75	4541413.92	0.0088	0.0007
Venus	7722-02-09 07:55 G	4541501.63	4541501.83	4541502.05	0.0088	0.0025
Mercury	7722-02-09 08:38 G	4541501.69	4541501.86	4541502.04	0.0088	0.0003 *
Mercury	7722-05-08 11:16 G	4541589.80	4541589.97	4541590.15	0.0088	0.0011
Mercury	7722-08-04 14:09 G	4541677.92	4541678.09	4541678.27	0.0088	0.0019
Venus	7722-09-22 20:38 G	4541727.14	4541727.36	4541727.58	0.0088	0.0007
Mercury	7722-10-31 16:48 G	4541766.04	4541766.20	4541766.38	0.0088	0.0028
Mercury	7723-01-27 19:40 G	4541854.17	4541854.32	4541854.49	0.0088	0.0037
Mercury	7723-04-25 22:33 G	4541942.29	4541942.44	4541942.60	0.0088	0.0045
Venus	7723-05-06 09:21 G	4541952.68	4541952.89	4541953.12	0.0088	0.0011
Mercury	7723-07-23 01:26 G	4542030.42	4542030.56	4542030.70	0.0088	0.0054
Mercury	7723-10-19 04:04 G	4542118.56	4542118.67	4542118.81	0.0088	0.0063
Venus	7723-12-17 21:50 G	4542178.21	4542178.41	4542178.63	0.0088	0.0029
Mercury	7724-01-15 06:43 G	4542206.70	4542206.78	4542206.90	0.0088	0.0072
Mercury	7724-04-12 09:36 G	4542294.85	4542294.90	4542294.99	0.0088	0.0081
Venus	7724-07-30 10:33 G	4542403.76	4542403.94	4542404.13	0.0088	0.0046
Venus	7725-03-12 23:02 G	4542629.32	4542629.46	4542629.62	0.0088	0.0064
Venus	7725-10-24 11:31 G	4542854.92	4542854.98	4542855.08	0.0088	0.0082
Moon	7757-09-21 10:48 G	4554509.89	4554509.95	4554510.05	0.0088	0.0084
Earth	7757-09-21 12:57 G	4554510.02	4554510.04	4554510.08	0.0088	0.0087 *
Earth	7758-09-24 01:26 G	4554877.41	4554877.56	4554877.71	0.0088	0.0072
Moon	7758-09-24 03:21 G	4554877.54	4554877.64	4554877.81	0.0088	0.0076 *
Moon	7759-09-26 10:33 G	4555244.74	4555244.94	4555245.16	0.0088	0.0054
Earth	7759-09-26 13:26 G	4555244.88	4555245.06	4555245.29	0.0088	0.0056 *
Earth	7760-09-28 02:09 G	4555612.38	4555612.59	4555612.84	0.0088	0.0040
Moon	7760-09-28 06:14 G	4555612.54	4555612.76	4555613.00	0.0088	0.0042 *

Moon	7761-09-30 12:00 G	4555979.75	4555980.00	4555980.25	0.0088	0.0021
Earth	7761-09-30 14:52 G	4555979.89	4555980.12	4555980.39	0.0088	0.0025 *
Earth	7762-10-03 03:50 G	4556347.40	4556347.66	4556347.93	0.0088	0.0008
Moon	7762-10-03 06:57 G	4556347.53	4556347.79	4556348.06	0.0088	0.0010 *
Moon	7763-10-05 14:38 G	4556714.86	4556715.11	4556715.37	0.0088	0.0010
Earth	7763-10-05 16:33 G	4556714.94	4556715.19	4556715.46	0.0088	0.0009 *
Earth	7764-10-07 05:16 G	4557082.48	4557082.72	4557082.98	0.0088	0.0025
Moon	7764-10-07 06:14 G	4557082.50	4557082.76	4557083.02	0.0088	0.0023 *
Earth	7765-10-09 18:00 G	4557450.03	4557450.25	4557450.49	0.0088	0.0041
Moon	7765-10-09 18:00 G	4557450.04	4557450.25	4557450.48	0.0088	0.0042 *
Moon	7766-10-12 04:48 G	4557817.50	4557817.70	4557817.93	0.0088	0.0055
Earth	7766-10-12 06:28 G	4557817.59	4557817.77	4557817.99	0.0088	0.0057 *
Earth	7767-10-14 19:11 G	4558185.17	4558185.30	4558185.47	0.0088	0.0073
Moon	7767-10-14 21:36 G	4558185.29	4558185.40	4558185.57	0.0088	0.0075 *
Moon	7768-10-16 04:48 G	4558552.69	4558552.70	4558552.77	0.0088	0.0088
Earth	7768-10-16 08:23 G	4558552.85	4558552.85	4558552.88	0.0088	0.0088
Mars	7783-08-30 15:50 G	4563984.13	4563984.16	4563984.25	0.0089	0.0087
Mars	7785-07-24 05:02 G	4564677.42	4564677.71	4564678.00	0.0089	0.0002
Jupiter	7787-05-13 10:48 G	4565335.62	4565335.95	4565336.30	0.0089	0.0068
Mars	7787-06-17 18:00 G	4565371.16	4565371.25	4565371.36	0.0089	0.0083
Mercury	7802-03-21 01:11 G	4570760.51	4570760.55	4570760.62	0.0089	0.0082
Mercury	7802-06-17 03:07 G	4570848.56	4570848.63	4570848.71	0.0089	0.0075
Mercury	7802-09-13 04:33 G	4570936.61	4570936.69	4570936.80	0.0089	0.0068
Mercury	7802-12-10 06:28 G	4571024.67	4571024.77	4571024.89	0.0089	0.0060
Venus	7803-01-02 09:36 G	4571047.83	4571047.90	4571048.00	0.0089	0.0082
Mercury	7803-03-08 08:23 G	4571112.73	4571112.85	4571112.97	0.0089	0.0052
Mercury	7803-06-04 10:04 G	4571200.80	4571200.92	4571201.05	0.0089	0.0044
Venus	7803-08-15 23:16 G	4571273.31	4571273.47	4571273.62	0.0089	0.0063
Mercury	7803-08-31 11:45 G	4571288.86	4571288.99	4571289.13	0.0089	0.0037
Mercury	7803-11-27 13:26 G	4571376.93	4571377.06	4571377.20	0.0089	0.0029

Mercury	7804-02-23 15:07 G	4571465.00	4571465.13	4571465.28	0.0089	0.0022
Venus	7804-03-28 12:14 G	4571498.83	4571499.01	4571499.22	0.0089	0.0045
Mercury	7804-05-21 17:02 G	4571553.07	4571553.21	4571553.35	0.0089	0.0015
Mercury	7804-08-17 18:43 G	4571641.13	4571641.28	4571641.42	0.0089	0.0007
Venus	7804-11-09 01:55 G	4571724.38	4571724.58	4571724.80	0.0089	0.0025
Mercury	7804-11-13 20:23 G	4571729.20	4571729.35	4571729.49	0.0089	0.0002
Mercury	7805-02-09 21:50 G	4571817.27	4571817.41	4571817.56	0.0089	0.0009
Mercury	7805-05-08 23:31 G	4571905.35	4571905.48	4571905.63	0.0089	0.0016
Venus	7805-06-22 15:21 G	4571949.92	4571950.14	4571950.36	0.0089	0.0007
Mercury	7805-08-05 01:11 G	4571993.42	4571993.55	4571993.69	0.0089	0.0023
Mercury	7805-11-01 02:52 G	4572081.49	4572081.62	4572081.76	0.0089	0.0030
Mercury	7806-01-28 04:19 G	4572169.56	4572169.68	4572169.82	0.0089	0.0038
Venus	7806-02-03 04:33 G	4572175.48	4572175.69	4572175.92	0.0089	0.0013
Mercury	7806-04-26 06:00 G	4572257.64	4572257.75	4572257.88	0.0089	0.0045
Mercury	7806-07-23 07:40 G	4572345.71	4572345.82	4572345.94	0.0089	0.0052
Venus	7806-09-16 17:45 G	4572401.05	4572401.24	4572401.46	0.0089	0.0032
Mercury	7806-10-19 09:21 G	4572433.79	4572433.89	4572434.00	0.0089	0.0059
Mercury	7807-01-15 11:02 G	4572521.87	4572521.96	4572522.06	0.0089	0.0066
Mercury	7807-04-13 12:28 G	4572609.95	4572610.02	4572610.11	0.0089	0.0073
Venus	7807-04-30 06:57 G	4572626.63	4572626.79	4572626.99	0.0089	0.0051
Mercury	7807-07-10 13:55 G	4572698.04	4572698.08	4572698.16	0.0089	0.0081
Mercury	7807-10-06 15:36 G	4572786.14	4572786.15	4572786.19	0.0089	0.0088
Venus	7807-12-11 20:52 G	4572852.23	4572852.37	4572852.51	0.0089	0.0069
Venus	7808-07-24 09:50 G	4573077.88	4573077.91	4573077.96	0.0089	0.0088
Earth	7839-03-25 19:40 G	4584279.28	4584279.32	4584279.43	0.0089	0.0086
Moon	7839-03-25 19:40 G	4584279.31	4584279.32	4584279.39	0.0089	0.0089 *
Earth	7840-03-27 06:57 G	4584646.65	4584646.79	4584646.97	0.0089	0.0069
Moon	7840-03-27 07:40 G	4584646.68	4584646.82	4584647.00	0.0089	0.0067 *
Moon	7841-03-29 15:21 G	4585013.96	4585014.14	4585014.36	0.0089	0.0057
Earth	7841-03-29 18:00 G	4585014.06	4585014.25	4585014.47	0.0089	0.0053 *

Earth	7842-04-01 04:48 G	4585381.48	4585381.70	4585381.94	0.0089	0.0038
Moon	7842-04-01 07:40 G	4585381.61	4585381.82	4585382.07	0.0089	0.0035 *
Moon	7843-04-03 12:14 G	4585748.77	4585749.01	4585749.26	0.0089	0.0024
Earth	7843-04-03 15:50 G	4585748.92	4585749.16	4585749.41	0.0089	0.0021 *
Earth	7844-04-05 02:23 G	4586116.35	4586116.60	4586116.86	0.0089	0.0006
Moon	7844-04-05 06:14 G	4586116.50	4586116.76	4586117.01	0.0089	0.0002 *
Moon	7845-04-07 10:19 G	4586483.68	4586483.93	4586484.18	0.0089	0.0007
Earth	7845-04-07 12:57 G	4586483.80	4586484.04	4586484.30	0.0089	0.0011 *
Earth	7846-04-09 23:31 G	4586851.25	4586851.48	4586851.73	0.0089	0.0027
Moon	7846-04-10 01:55 G	4586851.35	4586851.58	4586851.84	0.0089	0.0029 *
Moon	7847-04-12 09:07 G	4587218.67	4587218.88	4587219.11	0.0089	0.0039
Earth	7847-04-12 10:04 G	4587218.71	4587218.92	4587219.16	0.0089	0.0042 *
Moon	7848-04-13 19:55 G	4587586.16	4587586.33	4587586.55	0.0089	0.0061
Earth	7848-04-13 20:23 G	4587586.17	4587586.35	4587586.56	0.0089	0.0058 *
Earth	7849-04-16 06:43 G	4587953.67	4587953.78	4587953.95	0.0089	0.0074
Moon	7849-04-16 08:23 G	4587953.71	4587953.85	4587954.00	0.0089	0.0071 *
Mars	7865-06-10 15:36 G	4593852.98	4593853.15	4593853.32	0.0088	0.0077
Mars	7867-05-08 01:11 G	4594549.24	4594549.55	4594549.91	0.0088	0.0026
Mercury	7884-06-09 03:36 G	4600791.61	4600791.65	4600791.74	0.0088	0.0081
Venus	7884-07-07 03:50 G	4600819.65	4600819.66	4600819.70	0.0088	0.0087
Mercury	7884-09-05 06:43 G	4600879.69	4600879.78	4600879.88	0.0088	0.0072
Mercury	7884-12-02 09:07 G	4600967.78	4600967.88	4600968.01	0.0088	0.0064
Venus	7885-02-17 16:33 G	4601045.06	4601045.19	4601045.33	0.0088	0.0069
Mercury	7885-02-28 11:45 G	4601055.87	4601055.99	4601056.14	0.0088	0.0056
Mercury	7885-05-27 14:38 G	4601143.97	4601144.11	4601144.26	0.0088	0.0047
Mercury	7885-08-23 17:16 G	4601232.07	4601232.22	4601232.38	0.0088	0.0039
Venus	7885-10-01 04:48 G	4601270.54	4601270.70	4601270.90	0.0088	0.0052
Mercury	7885-11-19 20:09 G	4601320.18	4601320.34	4601320.50	0.0088	0.0030
Mercury	7886-02-15 22:48 G	4601408.28	4601408.45	4601408.62	0.0088	0.0022
Venus	7886-05-14 17:45 G	4601496.05	4601496.24	4601496.45	0.0088	0.0034

Mercury	7886-05-15 01:40 G	4601496.39	4601496.57	4601496.74	0.0088	0.0013 *
Mercury	7886-08-11 04:19 G	4601584.51	4601584.68	4601584.86	0.0088	0.0005
Mercury	7886-11-07 06:57 G	4601672.62	4601672.79	4601672.97	0.0088	0.0005
Venus	7886-12-26 06:28 G	4601721.56	4601721.77	4601721.99	0.0088	0.0016
Mercury	7887-02-03 09:50 G	4601760.74	4601760.91	4601761.08	0.0088	0.0013
Mercury	7887-05-02 12:43 G	4601848.85	4601849.03	4601849.20	0.0088	0.0021
Mercury	7887-07-29 15:21 G	4601936.98	4601937.14	4601937.31	0.0088	0.0030
Venus	7887-08-08 19:11 G	4601947.08	4601947.30	4601947.52	0.0088	0.0002
Mercury	7887-10-25 18:00 G	4602025.10	4602025.25	4602025.42	0.0088	0.0039
Mercury	7888-01-21 20:38 G	4602113.23	4602113.36	4602113.52	0.0088	0.0048
Venus	7888-03-21 07:40 G	4602172.61	4602172.82	4602173.04	0.0088	0.0020
Mercury	7888-04-18 23:45 G	4602201.36	4602201.49	4602201.63	0.0088	0.0056
Mercury	7888-07-16 02:23 G	4602289.49	4602289.60	4602289.73	0.0088	0.0065
Mercury	7888-10-12 05:16 G	4602377.64	4602377.72	4602377.82	0.0088	0.0074
Venus	7888-11-01 20:09 G	4602398.15	4602398.34	4602398.55	0.0088	0.0038
Mercury	7889-01-08 07:55 G	4602465.79	4602465.83	4602465.91	0.0088	0.0083
Venus	7889-06-15 08:38 G	4602623.71	4602623.86	4602624.05	0.0088	0.0056
Venus	7890-01-26 21:07 G	4602849.29	4602849.38	4602849.52	0.0088	0.0074
Moon	7922-09-25 04:19 G	4614777.57	4614777.68	4614777.83	0.0088	0.0076
Earth	7922-09-25 07:55 G	4614777.74	4614777.83	4614777.96	0.0088	0.0079 *
Earth	7923-09-27 20:23 G	4615145.18	4615145.35	4615145.54	0.0088	0.0064
Moon	7923-09-27 23:45 G	4615145.34	4615145.49	4615145.68	0.0088	0.0067 *
Moon	7924-09-29 05:31 G	4615512.52	4615512.73	4615512.97	0.0088	0.0044
Earth	7924-09-29 08:38 G	4615512.67	4615512.86	4615513.10	0.0088	0.0049 *
Earth	7925-10-01 21:21 G	4615880.16	4615880.39	4615880.65	0.0088	0.0032
Moon	7925-10-01 23:45 G	4615880.25	4615880.49	4615880.74	0.0088	0.0035 *
Moon	7926-10-04 08:23 G	4616247.61	4616247.85	4616248.11	0.0088	0.0014
Earth	7926-10-04 10:04 G	4616247.67	4616247.92	4616248.18	0.0088	0.0017 *
Earth	7927-10-06 23:02 G	4616615.20	4616615.46	4616615.72	0.0088	0.0001
Moon	7927-10-06 23:16 G	4616615.20	4616615.47	4616615.74	0.0088	0.0004 *

Earth	7928-10-08 11:31 G	4616982.73	4616982.98	4616983.25	0.0088	0.0016
Moon	7928-10-08 12:43 G	4616982.80	4616983.03	4616983.29	0.0088	0.0019 *
Moon	7929-10-10 22:19 G	4617350.18	4617350.43	4617350.69	0.0088	0.0027
Earth	7929-10-11 00:14 G	4617350.27	4617350.51	4617350.76	0.0088	0.0031 *
Earth	7930-10-13 12:43 G	4617717.83	4617718.03	4617718.27	0.0088	0.0047
Moon	7930-10-13 15:50 G	4617717.97	4617718.16	4617718.38	0.0088	0.0052 *
Moon	7931-10-15 21:50 G	4618085.24	4618085.41	4618085.63	0.0088	0.0060
Earth	7931-10-16 01:26 G	4618085.40	4618085.56	4618085.77	0.0088	0.0063 *
Earth	7932-10-17 14:09 G	4618453.00	4618453.09	4618453.23	0.0088	0.0079
Moon	7932-10-17 17:31 G	4618453.17	4618453.23	4618453.35	0.0088	0.0084 *
Mars	7949-03-10 17:02 G	4624440.98	4624441.21	4624441.49	0.0089	0.0042
Mars	7951-02-02 05:31 G	4625134.51	4625134.73	4625135.01	0.0089	0.0044
Jupiter	7953-07-11 00:00 G	4626023.99	4626024.50	4626025.03	0.0089	0.0008
Mercury	7966-09-19 22:19 G	4630843.43	4630843.43	4630843.47	0.0089	0.0089
Mercury	7966-12-17 00:14 G	4630931.46	4630931.51	4630931.58	0.0089	0.0081
Mercury	7967-03-15 01:55 G	4631019.51	4631019.58	4631019.68	0.0089	0.0073
Mercury	7967-06-11 03:50 G	4631107.57	4631107.66	4631107.77	0.0089	0.0066
Mercury	7967-09-07 05:45 G	4631195.63	4631195.74	4631195.85	0.0089	0.0058
Venus	7967-11-18 07:40 G	4631267.71	4631267.82	4631267.97	0.0089	0.0073
Mercury	7967-12-04 07:11 G	4631283.69	4631283.80	4631283.93	0.0089	0.0051
Mercury	7968-03-01 09:07 G	4631371.76	4631371.88	4631372.01	0.0089	0.0043
Mercury	7968-05-28 10:48 G	4631459.83	4631459.95	4631460.09	0.0089	0.0035
Venus	7968-06-30 21:21 G	4631493.22	4631493.39	4631493.57	0.0089	0.0054
Mercury	7968-08-24 12:43 G	4631547.89	4631548.03	4631548.17	0.0089	0.0028
Mercury	7968-11-20 14:23 G	4631635.96	4631636.10	4631636.24	0.0089	0.0020
Venus	7969-02-11 10:48 G	4631718.75	4631718.95	4631719.16	0.0089	0.0035
Mercury	7969-02-16 16:04 G	4631724.03	4631724.17	4631724.31	0.0089	0.0013
Mercury	7969-05-15 17:45 G	4631812.10	4631812.24	4631812.39	0.0089	0.0005
Mercury	7969-08-11 19:26 G	4631900.17	4631900.31	4631900.46	0.0089	0.0003
Venus	7969-09-25 00:14 G	4631944.30	4631944.51	4631944.73	0.0089	0.0016



Mercury	7969-11-07 21:07 G	4631988.24	4631988.38	4631988.52	0.0089	0.0010
Mercury	7970-02-03 22:48 G	4632076.31	4632076.45	4632076.59	0.0089	0.0017
Mercury	7970-05-03 00:28 G	4632164.38	4632164.52	4632164.66	0.0089	0.0024
Venus	7970-05-08 13:40 G	4632169.85	4632170.07	4632170.29	0.0089	0.0003
Mercury	7970-07-30 02:09 G	4632252.46	4632252.59	4632252.72	0.0089	0.0031
Mercury	7970-10-26 03:50 G	4632340.53	4632340.66	4632340.79	0.0089	0.0039
Venus	7970-12-20 02:38 G	4632395.41	4632395.61	4632395.84	0.0089	0.0023
Mercury	7971-01-22 05:16 G	4632428.61	4632428.72	4632428.85	0.0089	0.0046
Mercury	7971-04-20 06:57 G	4632516.68	4632516.79	4632516.91	0.0089	0.0053
Mercury	7971-07-17 08:23 G	4632604.76	4632604.85	4632604.97	0.0089	0.0061
Venus	7971-08-02 16:19 G	4632620.98	4632621.18	4632621.38	0.0089	0.0041
Mercury	7971-10-13 10:04 G	4632692.84	4632692.92	4632693.02	0.0089	0.0068
Mercury	7972-01-09 11:45 G	4632780.92	4632780.99	4632781.07	0.0089	0.0075
Venus	7972-03-15 05:31 G	4632846.57	4632846.73	4632846.90	0.0089	0.0060
Mercury	7972-04-06 13:26 G	4632869.01	4632869.06	4632869.12	0.0089	0.0082
Mercury	7972-07-03 14:52 G	4632957.12	4632957.12	4632957.14	0.0089	0.0089
Venus	7972-10-26 18:43 G	4633072.19	4633072.28	4633072.40	0.0089	0.0079

# 9TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 9th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	8004-03-27 12:00 G		4644546.90	4644547.00	4644547.13	0.0089	0.0079	
Earth	8004-03-27 14:09 G		4644546.99	4644547.09	4644547.24	0.0089	0.0078	*

Earth	8005-03-30 01:26 G	4644914.39	4644914.56	4644914.76	0.0089	0.0062
Moon	8005-03-30 05:02 G	4644914.53	4644914.71	4644914.91	0.0089	0.0059 *
Moon	8006-04-01 08:52 G	4645281.68	4645281.87	4645282.10	0.0089	0.0048
Earth	8006-04-01 12:43 G	4645281.82	4645282.03	4645282.25	0.0089	0.0046 *
Earth	8007-04-03 23:16 G	4645649.25	4645649.47	4645649.72	0.0089	0.0030
Moon	8007-04-04 03:07 G	4645649.38	4645649.63	4645649.87	0.0089	0.0027 *
Moon	8008-04-05 07:26 G	4646016.57	4646016.81	4646017.06	0.0089	0.0017
Earth	8008-04-05 10:19 G	4646016.68	4646016.93	4646017.19	0.0089	0.0014 *
Earth	8009-04-07 21:07 G	4646384.12	4646384.38	4646384.63	0.0089	0.0002
Moon	8009-04-07 22:33 G	4646384.18	4646384.44	4646384.70	0.0089	0.0004 *
Moon	8010-04-10 06:57 G	4646751.55	4646751.79	4646752.04	0.0089	0.0015
Earth	8010-04-10 07:40 G	4646751.58	4646751.82	4646752.08	0.0089	0.0017 *
Moon	8011-04-12 17:16 G	4647118.99	4647119.22	4647119.47	0.0089	0.0036
Earth	8011-04-12 18:00 G	4647119.03	4647119.25	4647119.50	0.0089	0.0033 *
Earth	8012-04-14 04:19 G	4647486.49	4647486.68	4647486.92	0.0089	0.0049
Moon	8012-04-14 06:43 G	4647486.58	4647486.78	4647487.01	0.0089	0.0046 *
Moon	8013-04-16 12:28 G	4647853.87	4647854.02	4647854.20	0.0089	0.0067
Earth	8013-04-16 15:07 G	4647853.97	4647854.13	4647854.32	0.0089	0.0064 *
Earth	8014-04-19 01:11 G	4648221.47	4648221.55	4648221.69	0.0089	0.0080
Moon	8014-04-19 05:16 G	4648221.60	4648221.72	4648221.86	0.0089	0.0076 *
Mars	8030-12-20 06:43 G	4654310.47	4654310.78	4654311.13	0.0088	0.0024
Mars	8032-11-15 17:16 G	4655007.07	4655007.22	4655007.38	0.0088	0.0079
Mercury	8048-12-09 00:00 G	4660874.48	4660874.50	4660874.54	0.0088	0.0086
Mercury	8049-03-07 02:23 G	4660962.54	4660962.60	4660962.70	0.0088	0.0078
Venus	8049-05-23 02:23 G	4661039.52	4661039.60	4661039.72	0.0088	0.0078
Mercury	8049-06-03 05:02 G	4661050.62	4661050.71	4661050.83	0.0088	0.0070
Mercury	8049-08-30 07:55 G	4661138.71	4661138.83	4661138.96	0.0088	0.0061
Mercury	8049-11-26 10:33 G	4661226.81	4661226.94	4661227.08	0.0088	0.0053
Venus	8050-01-03 15:07 G	4661264.99	4661265.13	4661265.31	0.0088	0.0060
Mercury	8050-02-22 12:57 G	4661314.91	4661315.04	4661315.21	0.0088	0.0045

Mercury	8050-05-21 15:50 G	4661403.01	4661403.16	4661403.33	0.0088	0.0036
Venus	8050-08-17 03:50 G	4661490.48	4661490.66	4661490.86	0.0088	0.0042
Mercury	8050-08-17 18:28 G	4661491.12	4661491.27	4661491.45	0.0088	0.0028
Mercury	8050-11-13 21:21 G	4661579.22	4661579.39	4661579.56	0.0088	0.0019
Mercury	8051-02-10 00:00 G	4661667.33	4661667.50	4661667.68	0.0088	0.0011
Venus	8051-03-30 16:33 G	4661715.99	4661716.19	4661716.41	0.0088	0.0024
Mercury	8051-05-09 02:52 G	4661755.44	4661755.62	4661755.79	0.0088	0.0002
Mercury	8051-08-05 05:31 G	4661843.56	4661843.73	4661843.91	0.0088	0.0007
Mercury	8051-11-01 08:23 G	4661931.67	4661931.85	4661932.02	0.0088	0.0015
Venus	8051-11-11 05:16 G	4661941.50	4661941.72	4661941.94	0.0088	0.0006
Mercury	8052-01-28 11:02 G	4662019.79	4662019.96	4662020.13	0.0088	0.0024
Mercury	8052-04-25 13:40 G	4662107.91	4662108.07	4662108.24	0.0088	0.0033
Venus	8052-06-23 17:45 G	4662167.03	4662167.24	4662167.47	0.0088	0.0012
Mercury	8052-07-22 16:33 G	4662196.04	4662196.19	4662196.35	0.0088	0.0041
Mercury	8052-10-18 19:11 G	4662284.17	4662284.30	4662284.46	0.0088	0.0050
Mercury	8053-01-14 22:04 G	4662372.30	4662372.42	4662372.56	0.0088	0.0059
Venus	8053-02-04 06:14 G	4662392.57	4662392.76	4662392.98	0.0088	0.0030
Mercury	8053-04-13 00:43 G	4662460.43	4662460.53	4662460.66	0.0088	0.0068
Mercury	8053-07-10 04:04 G	4662548.58	4662548.67	4662548.75	0.0088	0.0076
Venus	8053-09-17 18:43 G	4662618.11	4662618.28	4662618.48	0.0088	0.0048
Mercury	8053-10-06 06:43 G	4662636.74	4662636.78	4662636.82	0.0088	0.0085
Venus	8054-05-01 07:26 G	4662843.69	4662843.81	4662843.98	0.0088	0.0066
Venus	8054-12-12 19:55 G	4663069.29	4663069.33	4663069.42	0.0088	0.0084
Earth	8086-09-24 15:21 G	4674678.11	4674678.14	4674678.22	0.0088	0.0086
Moon	8086-09-24 18:57 G	4674678.22	4674678.29	4674678.41	0.0088	0.0082 *
Moon	8087-09-27 01:11 G	4675045.44	4675045.55	4675045.72	0.0088	0.0075
Earth	8087-09-27 04:19 G	4675045.53	4675045.68	4675045.84	0.0088	0.0071 *
Earth	8088-09-28 16:33 G	4675413.00	4675413.19	4675413.40	0.0088	0.0055
Moon	8088-09-28 18:43 G	4675413.08	4675413.28	4675413.51	0.0088	0.0052 *
Moon	8089-10-01 04:33 G	4675780.48	4675780.69	4675780.92	0.0088	0.0043

Earth	8089-10-01 04:33 G	4675780.48	4675780.69	4675780.95	0.0088	0.0041	*
Moon	8090-10-03 17:02 G	4676147.95	4676148.21	4676148.48	0.0088	0.0021	
Earth	8090-10-03 17:31 G	4676147.99	4676148.23	4676148.49	0.0088	0.0024	*
Earth	8091-10-06 06:14 G	4676515.50	4676515.76	4676516.03	0.0088	0.0009	
Moon	8091-10-06 07:40 G	4676515.57	4676515.82	4676516.08	0.0088	0.0011	*
Moon	8092-10-07 15:50 G	4676882.90	4676883.16	4676883.43	0.0088	0.0011	
Earth	8092-10-07 18:57 G	4676883.03	4676883.29	4676883.55	0.0088	0.0007	*
Earth	8093-10-10 07:40 G	4677250.57	4677250.82	4677251.07	0.0088	0.0023	
Moon	8093-10-10 10:33 G	4677250.70	4677250.94	4677251.20	0.0088	0.0020	*
Moon	8094-10-12 16:19 G	4677617.97	4677618.18	4677618.43	0.0088	0.0041	
Earth	8094-10-12 20:09 G	4677618.12	4677618.34	4677618.59	0.0088	0.0039	*
Earth	8095-10-15 08:52 G	4677985.68	4677985.87	4677986.10	0.0088	0.0054	
Moon	8095-10-15 12:14 G	4677985.82	4677986.01	4677986.25	0.0088	0.0052	*
Moon	8096-10-16 18:57 G	4678353.16	4678353.29	4678353.46	0.0088	0.0072	
Earth	8096-10-16 21:50 G	4678353.27	4678353.41	4678353.59	0.0088	0.0070	*
Earth	8097-10-19 10:04 G	4678720.88	4678720.92	4678721.02	0.0088	0.0086	
Moon	8097-10-19 12:28 G	4678720.97	4678721.02	4678721.14	0.0088	0.0084	*
Mars	8112-10-25 05:31 G	4684204.65	4684204.73	4684204.88	0.0089	0.0081	
Mars	8114-09-18 20:38 G	4684898.07	4684898.36	4684898.65	0.0089	0.0004	
Jupiter	8119-09-06 15:21 G	4686711.98	4686712.14	4686712.37	0.0089	0.0082	
Mercury	8131-06-17 22:04 G	4691014.38	4691014.42	4691014.46	0.0089	0.0086	
Mercury	8131-09-13 23:31 G	4691102.43	4691102.48	4691102.56	0.0089	0.0079	
Mercury	8131-12-11 01:26 G	4691190.48	4691190.56	4691190.66	0.0089	0.0071	
Venus	8132-02-20 17:02 G	4691262.15	4691262.21	4691262.32	0.0089	0.0082	
Mercury	8132-03-08 03:07 G	4691278.54	4691278.63	4691278.74	0.0089	0.0063	
Mercury	8132-06-04 05:02 G	4691366.60	4691366.71	4691366.83	0.0089	0.0055	
Mercury	8132-08-31 06:57 G	4691454.67	4691454.79	4691454.91	0.0089	0.0048	
Venus	8132-10-03 06:43 G	4691487.64	4691487.78	4691487.96	0.0089	0.0063	
Mercury	8132-11-27 08:23 G	4691542.73	4691542.85	4691542.99	0.0089	0.0041	
Mercury	8133-02-23 10:19 G	4691630.80	4691630.93	4691631.07	0.0089	0.0033	

Venus	8133-05-16 20:23 G	4691713.17	4691713.35	4691713.55	0.0089	0.0044
Mercury	8133-05-22 12:00 G	4691718.86	4691719.00	4691719.14	0.0089	0.0025
Mercury	8133-08-18 13:40 G	4691806.93	4691807.07	4691807.22	0.0089	0.0018
Mercury	8133-11-14 15:36 G	4691895.00	4691895.15	4691895.29	0.0089	0.0010
Venus	8133-12-28 09:50 G	4691938.70	4691938.91	4691939.13	0.0089	0.0025
Mercury	8134-02-10 17:16 G	4691983.07	4691983.22	4691983.36	0.0089	0.0003
Mercury	8134-05-09 18:57 G	4692071.14	4692071.29	4692071.43	0.0089	0.0005
Mercury	8134-08-05 20:23 G	4692159.22	4692159.35	4692159.50	0.0089	0.0013
Venus	8134-08-10 23:16 G	4692164.25	4692164.47	4692164.69	0.0089	0.0006
Mercury	8134-11-01 22:04 G	4692247.29	4692247.42	4692247.57	0.0089	0.0020
Mercury	8135-01-29 00:00 G	4692335.36	4692335.50	4692335.63	0.0089	0.0027
Venus	8135-03-24 12:28 G	4692389.81	4692390.02	4692390.25	0.0089	0.0014
Mercury	8135-04-27 01:26 G	4692423.44	4692423.56	4692423.70	0.0089	0.0034
Mercury	8135-07-24 03:07 G	4692511.51	4692511.63	4692511.76	0.0089	0.0041
Mercury	8135-10-20 04:48 G	4692599.58	4692599.70	4692599.82	0.0089	0.0049
Venus	8135-11-05 01:55 G	4692615.39	4692615.58	4692615.80	0.0089	0.0033
Mercury	8136-01-16 06:28 G	4692687.66	4692687.77	4692687.88	0.0089	0.0056
Mercury	8136-04-13 08:09 G	4692775.74	4692775.84	4692775.94	0.0089	0.0063
Venus	8136-06-17 15:07 G	4692840.97	4692841.13	4692841.33	0.0089	0.0052
Mercury	8136-07-10 09:21 G	4692863.82	4692863.89	4692863.99	0.0089	0.0071
Mercury	8136-10-06 11:02 G	4692951.91	4692951.96	4692952.04	0.0089	0.0078
Mercury	8137-01-02 12:43 G	4693040.00	4693040.03	4693040.08	0.0089	0.0085
Venus	8137-01-29 04:19 G	4693066.57	4693066.68	4693066.84	0.0089	0.0071
Venus	8137-09-11 17:45 G	4693292.24	4693292.24	4693292.27	0.0089	0.0089
Earth	8168-03-27 22:48 G	4704447.40	4704447.45	4704447.56	0.0089	0.0085
Moon	8168-03-28 02:09 G	4704447.58	4704447.59	4704447.65	0.0089	0.0089
Moon	8169-03-30 06:14 G	4704814.62	4704814.76	4704814.96	0.0089	0.0066
Earth	8169-03-30 10:04 G	4704814.78	4704814.92	4704815.10	0.0089	0.0069 *
Earth	8170-04-01 21:21 G	4705182.20	4705182.39	4705182.60	0.0089	0.0053
Moon	8170-04-02 00:28 G	4705182.33	4705182.52	4705182.72	0.0089	0.0058 *

Moon	8171-04-04 06:14 G	4705549.54	4705549.76	4705549.99	0.0089	0.0034
Earth	8171-04-04 08:09 G	4705549.63	4705549.84	4705550.09	0.0089	0.0038 *
Earth	8172-04-05 19:26 G	4705917.07	4705917.31	4705917.56	0.0089	0.0022
Moon	8172-04-05 20:38 G	4705917.12	4705917.36	4705917.63	0.0089	0.0026 *
Earth	8173-04-08 06:14 G	4706284.51	4706284.76	4706285.02	0.0089	0.0007
Moon	8173-04-08 06:43 G	4706284.53	4706284.78	4706285.03	0.0089	0.0003 *
Moon	8174-04-10 15:50 G	4706651.89	4706652.16	4706652.42	0.0089	0.0005
Earth	8174-04-10 16:48 G	4706651.96	4706652.20	4706652.46	0.0089	0.0009 *
Earth	8175-04-13 03:36 G	4707019.41	4707019.65	4707019.90	0.0089	0.0024
Moon	8175-04-13 05:31 G	4707019.51	4707019.73	4707019.98	0.0089	0.0028 *
Moon	8176-04-14 10:48 G	4707386.72	4707386.95	4707387.19	0.0089	0.0035
Earth	8176-04-14 13:55 G	4707386.87	4707387.08	4707387.32	0.0089	0.0040 *
Earth	8177-04-17 00:14 G	4707754.33	4707754.51	4707754.73	0.0089	0.0055
Moon	8177-04-17 04:04 G	4707754.48	4707754.67	4707754.86	0.0089	0.0058 *
Moon	8178-04-19 07:11 G	4708121.66	4708121.80	4708121.99	0.0089	0.0067
Earth	8178-04-19 11:02 G	4708121.82	4708121.96	4708122.13	0.0089	0.0070 *
Earth	8179-04-21 21:21 G	4708489.33	4708489.39	4708489.47	0.0089	0.0085
Mars	8194-08-03 14:09 G	4714071.89	4714072.09	4714072.31	0.0088	0.0070
Mars	8196-06-30 00:00 G	4714768.19	4714768.50	4714768.83	0.0088	0.0032
Venus	8213-08-26 12:57 G	4721034.02	4721034.04	4721034.11	0.0088	0.0086
Mercury	8213-09-06 22:33 G	4721045.41	4721045.44	4721045.51	0.0088	0.0083
Mercury	8213-12-04 01:11 G	4721133.48	4721133.55	4721133.66	0.0088	0.0075
Mercury	8214-03-02 04:04 G	4721221.57	4721221.67	4721221.79	0.0088	0.0066
Venus	8214-04-09 01:40 G	4721259.45	4721259.57	4721259.73	0.0088	0.0068
Mercury	8214-05-29 06:43 G	4721309.66	4721309.78	4721309.92	0.0088	0.0058
Mercury	8214-08-25 09:07 G	4721397.76	4721397.88	4721398.04	0.0088	0.0050
Venus	8214-11-20 14:23 G	4721484.93	4721485.10	4721485.30	0.0088	0.0050
Mercury	8214-11-21 12:00 G	4721485.86	4721486.00	4721486.16	0.0088	0.0041
Mercury	8215-02-17 14:38 G	4721573.96	4721574.11	4721574.28	0.0088	0.0033
Mercury	8215-05-16 17:31 G	4721662.06	4721662.23	4721662.40	0.0088	0.0024

Venus	8215-07-04 03:07 G	4721710.43	4721710.63	4721710.84	0.0088	0.0032
Mercury	8215-08-12 20:09 G	4721750.17	4721750.34	4721750.51	0.0088	0.0016
Mercury	8215-11-08 22:48 G	4721838.28	4721838.45	4721838.63	0.0088	0.0008
Mercury	8216-02-05 01:40 G	4721926.39	4721926.57	4721926.74	0.0088	0.0002
Venus	8216-02-14 15:50 G	4721935.94	4721936.16	4721936.38	0.0088	0.0014
Mercury	8216-05-03 04:19 G	4722014.51	4722014.68	4722014.85	0.0088	0.0010
Mercury	8216-07-30 06:57 G	4722102.62	4722102.79	4722102.97	0.0088	0.0018
Venus	8216-09-27 04:33 G	4722161.47	4722161.69	4722161.91	0.0088	0.0004
Mercury	8216-10-26 09:36 G	4722190.74	4722190.90	4722191.08	0.0088	0.0027
Mercury	8217-01-22 12:14 G	4722278.86	4722279.01	4722279.19	0.0088	0.0036
Mercury	8217-04-20 15:21 G	4722366.99	4722367.14	4722367.29	0.0088	0.0044
Venus	8217-05-10 17:02 G	4722387.00	4722387.21	4722387.43	0.0088	0.0022
Mercury	8217-07-17 18:00 G	4722455.12	4722455.25	4722455.40	0.0088	0.0053
Mercury	8217-10-13 20:38 G	4722543.25	4722543.36	4722543.50	0.0088	0.0062
Venus	8217-12-22 05:31 G	4722612.54	4722612.73	4722612.94	0.0088	0.0040
Mercury	8218-01-09 23:16 G	4722631.39	4722631.47	4722631.59	0.0088	0.0071
Mercury	8218-04-08 02:38 G	4722719.53	4722719.61	4722719.68	0.0088	0.0079
Venus	8218-08-04 18:00 G	4722838.10	4722838.25	4722838.43	0.0088	0.0058
Venus	8219-03-18 06:28 G	4723063.68	4723063.77	4723063.90	0.0088	0.0076
Earth	8251-09-28 12:28 G	4734945.91	4734946.02	4734946.16	0.0088	0.0078
Moon	8251-09-28 13:26 G	4734945.94	4734946.06	4734946.22	0.0088	0.0075 *
Moon	8252-09-30 00:14 G	4735313.36	4735313.51	4735313.70	0.0088	0.0066
Earth	8252-09-30 00:43 G	4735313.36	4735313.53	4735313.73	0.0088	0.0062 *
Moon	8253-10-02 12:00 G	4735680.77	4735681.00	4735681.24	0.0088	0.0045
Earth	8253-10-02 13:11 G	4735680.84	4735681.05	4735681.28	0.0088	0.0047 *
Earth	8254-10-05 01:26 G	4736048.33	4736048.56	4736048.82	0.0088	0.0032
Moon	8254-10-05 03:50 G	4736048.44	4736048.66	4736048.91	0.0088	0.0035 *
Moon	8255-10-07 11:16 G	4736415.71	4736415.97	4736416.23	0.0088	0.0013
Earth	8255-10-07 14:09 G	4736415.84	4736416.09	4736416.35	0.0088	0.0017 *
Earth	8256-10-09 02:38 G	4736783.35	4736783.61	4736783.87	0.0088	0.0002

Moon	8256-10-09 06:28 G	4736783.51	4736783.77	4736784.03	0.0088	0.0004 *
Moon	8257-10-11 11:45 G	4737150.74	4737150.99	4737151.25	0.0088	0.0017
Earth	8257-10-11 15:21 G	4737150.88	4737151.14	4737151.40	0.0088	0.0014 *
Earth	8258-10-14 03:36 G	4737518.43	4737518.65	4737518.92	0.0088	0.0031
Moon	8258-10-14 07:11 G	4737518.56	4737518.80	4737519.07	0.0088	0.0027 *
Moon	8259-10-16 14:23 G	4737885.89	4737886.10	4737886.32	0.0088	0.0049
Earth	8259-10-16 16:33 G	4737885.98	4737886.19	4737886.43	0.0088	0.0046 *
Earth	8260-10-18 05:31 G	4738253.55	4738253.73	4738253.93	0.0088	0.0061
Moon	8260-10-18 06:28 G	4738253.59	4738253.77	4738254.00	0.0088	0.0058 *
Moon	8261-10-20 17:45 G	4738621.15	4738621.24	4738621.36	0.0088	0.0080
Earth	8261-10-20 18:43 G	4738621.15	4738621.28	4738621.41	0.0088	0.0076 *
Moon	8262-10-23 05:45 G	4738988.73	4738988.74	4738988.81	0.0088	0.0088
Mars	8278-05-05 10:04 G	4744661.67	4744661.92	4744662.20	0.0089	0.0034
Mars	8280-03-28 23:45 G	4745355.28	4745355.49	4745355.75	0.0089	0.0051
Mercury	8296-03-14 21:07 G	4751185.35	4751185.38	4751185.45	0.0089	0.0084
Mercury	8296-06-10 23:02 G	4751273.39	4751273.46	4751273.55	0.0089	0.0076
Mercury	8296-09-07 00:57 G	4751361.45	4751361.54	4751361.64	0.0089	0.0068
Mercury	8296-12-04 02:38 G	4751449.51	4751449.61	4751449.72	0.0089	0.0060
Venus	8297-01-05 17:02 G	4751482.08	4751482.21	4751482.34	0.0089	0.0071
Mercury	8297-03-02 04:33 G	4751537.57	4751537.69	4751537.81	0.0089	0.0053
Mercury	8297-05-29 06:00 G	4751625.64	4751625.75	4751625.89	0.0089	0.0046
Venus	8297-08-19 06:28 G	4751707.59	4751707.77	4751707.94	0.0089	0.0052
Mercury	8297-08-25 07:55 G	4751713.71	4751713.83	4751713.97	0.0089	0.0038
Mercury	8297-11-21 09:36 G	4751801.77	4751801.90	4751802.04	0.0089	0.0030
Mercury	8298-02-17 11:31 G	4751889.84	4751889.98	4751890.12	0.0089	0.0022
Venus	8298-04-01 19:26 G	4751933.12	4751933.31	4751933.53	0.0089	0.0033
Mercury	8298-05-16 13:11 G	4751977.91	4751978.05	4751978.19	0.0089	0.0015
Mercury	8298-08-12 14:52 G	4752065.98	4752066.12	4752066.27	0.0089	0.0008
Mercury	8298-11-08 16:33 G	4752154.05	4752154.19	4752154.34	0.0089	0.0003
Venus	8298-11-13 09:21 G	4752158.67	4752158.89	4752159.11	0.0089	0.0014



Mercury	8299-02-04 18:28 G	4752242.12	4752242.27	4752242.41	0.0089	0.0008
Mercury	8299-05-03 20:09 G	4752330.20	4752330.34	4752330.48	0.0089	0.0015
Venus	8299-06-26 22:48 G	4752384.23	4752384.45	4752384.67	0.0089	0.0005
Mercury	8299-07-30 21:36 G	4752418.27	4752418.40	4752418.55	0.0089	0.0022
Mercury	8299-10-26 23:16 G	4752506.34	4752506.47	4752506.61	0.0089	0.0030
Mercury	8300-01-23 00:57 G	4752594.42	4752594.54	4752594.68	0.0089	0.0037
Venus	8300-02-07 11:45 G	4752609.79	4752609.99	4752610.22	0.0089	0.0025
Mercury	8300-04-21 02:38 G	4752682.49	4752682.61	4752682.74	0.0089	0.0044
Mercury	8300-07-18 04:19 G	4752770.57	4752770.68	4752770.80	0.0089	0.0051
Venus	8300-09-21 01:11 G	4752835.37	4752835.55	4752835.76	0.0089	0.0043
Mercury	8300-10-14 06:00 G	4752858.65	4752858.75	4752858.86	0.0089	0.0059
Mercury	8301-01-10 07:40 G	4752946.73	4752946.82	4752946.91	0.0089	0.0066
Mercury	8301-04-08 09:21 G	4753034.81	4753034.89	4753034.97	0.0089	0.0073
Venus	8301-05-04 14:23 G	4753060.96	4753061.10	4753061.28	0.0089	0.0063
Mercury	8301-07-05 10:33 G	4753122.90	4753122.94	4753123.02	0.0089	0.0081
Mercury	8301-10-01 12:14 G	4753211.00	4753211.01	4753211.05	0.0089	0.0088
Venus	8301-12-16 03:50 G	4753286.59	4753286.66	4753286.77	0.0089	0.0082
Earth	8333-03-31 19:11 G	4764715.20	4764715.30	4764715.46	0.0089	0.0077
Moon	8333-03-31 22:33 G	4764715.34	4764715.44	4764715.58	0.0089	0.0078 *
Moon	8334-04-03 04:48 G	4765082.53	4765082.70	4765082.90	0.0089	0.0060
Earth	8334-04-03 06:14 G	4765082.60	4765082.76	4765082.97	0.0089	0.0061 *
Earth	8335-04-05 17:31 G	4765450.03	4765450.23	4765450.46	0.0089	0.0046
Moon	8335-04-05 17:45 G	4765450.04	4765450.24	4765450.49	0.0089	0.0047 *
Earth	8336-04-07 04:33 G	4765817.46	4765817.69	4765817.94	0.0089	0.0030
Moon	8336-04-07 05:02 G	4765817.48	4765817.71	4765817.95	0.0089	0.0028 *
Moon	8337-04-09 13:40 G	4766184.82	4766185.07	4766185.33	0.0089	0.0016
Earth	8337-04-09 15:36 G	4766184.91	4766185.15	4766185.41	0.0089	0.0015 *
Earth	8338-04-12 02:38 G	4766552.36	4766552.61	4766552.87	0.0089	0.0001
Moon	8338-04-12 05:31 G	4766552.48	4766552.73	4766552.98	0.0089	0.0002 *
Moon	8339-04-14 10:04 G	4766919.67	4766919.92	4766920.18	0.0089	0.0014

Earth	8339-04-14 13:26 G	4766919.81	4766920.06	4766920.32	0.0089	0.0016 *
Earth	8340-04-16 00:00 G	4767287.27	4767287.50	4767287.75	0.0089	0.0031
Moon	8340-04-16 03:50 G	4767287.43	4767287.66	4767287.90	0.0089	0.0033 *
Moon	8341-04-18 07:26 G	4767654.61	4767654.81	4767655.05	0.0089	0.0045
Earth	8341-04-18 11:02 G	4767654.74	4767654.96	4767655.17	0.0089	0.0047 *
Earth	8342-04-20 20:38 G	4768022.21	4768022.36	4768022.57	0.0089	0.0062
Moon	8342-04-21 00:14 G	4768022.33	4768022.51	4768022.69	0.0089	0.0064 *
Moon	8343-04-23 06:00 G	4768389.64	4768389.75	4768389.91	0.0089	0.0075
Earth	8343-04-23 07:11 G	4768389.71	4768389.80	4768389.96	0.0089	0.0077 *
Mars	8360-02-13 08:23 G	4774529.51	4774529.85	4774530.19	0.0088	0.0015
Mars	8362-01-09 18:28 G	4775226.22	4775226.27	4775226.34	0.0088	0.0087
Mercury	8378-03-08 19:26 G	4781128.30	4781128.31	4781128.32	0.0088	0.0087
Mercury	8378-06-04 21:50 G	4781216.35	4781216.41	4781216.49	0.0088	0.0079
Venus	8378-07-12 13:11 G	4781253.94	4781254.05	4781254.16	0.0088	0.0075
Mercury	8378-09-01 00:14 G	4781304.43	4781304.51	4781304.63	0.0088	0.0071
Mercury	8378-11-28 02:52 G	4781392.52	4781392.62	4781392.76	0.0088	0.0063
Venus	8379-02-23 01:40 G	4781479.41	4781479.57	4781479.74	0.0088	0.0057
Mercury	8379-02-24 05:45 G	4781480.61	4781480.74	4781480.88	0.0088	0.0054
Mercury	8379-05-23 08:23 G	4781568.71	4781568.85	4781569.00	0.0088	0.0046
Mercury	8379-08-19 10:48 G	4781656.81	4781656.95	4781657.12	0.0088	0.0038
Venus	8379-10-06 14:23 G	4781704.90	4781705.10	4781705.30	0.0088	0.0039
Mercury	8379-11-15 13:40 G	4781744.91	4781745.07	4781745.24	0.0088	0.0029
Mercury	8380-02-11 16:19 G	4781833.02	4781833.18	4781833.36	0.0088	0.0021
Mercury	8380-05-09 19:11 G	4781921.13	4781921.30	4781921.47	0.0088	0.0012
Venus	8380-05-19 03:07 G	4781930.42	4781930.63	4781930.84	0.0088	0.0021
Mercury	8380-08-05 21:50 G	4782009.24	4782009.41	4782009.59	0.0088	0.0004
Mercury	8380-11-02 00:43 G	4782097.35	4782097.53	4782097.70	0.0088	0.0005
Venus	8380-12-30 15:36 G	4782155.93	4782156.15	4782156.37	0.0088	0.0004
Mercury	8381-01-29 03:07 G	4782185.47	4782185.63	4782185.81	0.0088	0.0014
Mercury	8381-04-27 06:00 G	4782273.58	4782273.75	4782273.92	0.0088	0.0022

Mercury	8381-07-24 08:38 G	4782361.70	4782361.86	4782362.03	0.0088	0.0031
Venus	8381-08-13 04:04 G	4782381.46	4782381.67	4782381.89	0.0088	0.0015
Mercury	8381-10-20 11:31 G	4782449.83	4782449.98	4782450.14	0.0088	0.0039
Mercury	8382-01-16 14:09 G	4782537.95	4782538.09	4782538.24	0.0088	0.0048
Venus	8382-03-26 16:33 G	4782607.00	4782607.19	4782607.41	0.0088	0.0033
Mercury	8382-04-14 16:48 G	4782626.08	4782626.20	4782626.35	0.0088	0.0057
Mercury	8382-07-11 19:26 G	4782714.21	4782714.31	4782714.45	0.0088	0.0066
Mercury	8382-10-07 22:33 G	4782802.35	4782802.44	4782802.54	0.0088	0.0074
Venus	8382-11-07 05:02 G	4782832.55	4782832.71	4782832.91	0.0088	0.0051
Mercury	8383-01-04 01:11 G	4782890.51	4782890.55	4782890.62	0.0088	0.0083
Venus	8383-06-20 17:31 G	4783058.12	4783058.23	4783058.39	0.0088	0.0069
Venus	8384-02-01 06:00 G	4783283.75	4783283.75	4783283.81	0.0088	0.0087
Earth	8415-09-28 21:50 G	4794846.33	4794846.41	4794846.49	0.0088	0.0084
Moon	8415-09-28 22:04 G	4794846.34	4794846.42	4794846.55	0.0088	0.0080 *
Moon	8416-09-30 08:23 G	4795213.71	4795213.85	4795214.01	0.0088	0.0072
Earth	8416-09-30 09:36 G	4795213.77	4795213.90	4795214.09	0.0088	0.0069 *
Earth	8417-10-02 22:04 G	4795581.24	4795581.42	4795581.65	0.0088	0.0055
Moon	8417-10-03 00:57 G	4795581.35	4795581.54	4795581.77	0.0088	0.0050 *
Moon	8418-10-05 07:11 G	4795948.59	4795948.80	4795949.05	0.0088	0.0043
Earth	8418-10-05 10:48 G	4795948.73	4795948.95	4795949.20	0.0088	0.0039 *
Earth	8419-10-07 23:02 G	4796316.23	4796316.46	4796316.73	0.0088	0.0025
Moon	8419-10-08 02:52 G	4796316.37	4796316.62	4796316.88	0.0088	0.0020 *
Moon	8420-10-09 08:23 G	4796683.59	4796683.85	4796684.10	0.0088	0.0012
Earth	8420-10-09 12:00 G	4796683.74	4796684.00	4796684.26	0.0088	0.0009 *
Earth	8421-10-12 00:28 G	4797051.26	4797051.52	4797051.78	0.0088	0.0007
Moon	8421-10-12 03:07 G	4797051.37	4797051.63	4797051.90	0.0088	0.0010 *
Moon	8422-10-14 10:48 G	4797418.71	4797418.95	4797419.21	0.0088	0.0019
Earth	8422-10-14 12:43 G	4797418.80	4797419.03	4797419.30	0.0088	0.0023 *
Earth	8423-10-17 01:11 G	4797786.33	4797786.55	4797786.81	0.0088	0.0037
Moon	8423-10-17 02:23 G	4797786.37	4797786.60	4797786.85	0.0088	0.0040 *

Earth	8424-10-18 13:55 G	4798153.89	4798154.08	4798154.31	0.0088	0.0053
Moon	8424-10-18 14:23 G	4798153.92	4798154.10	4798154.34	0.0088	0.0050 *
Moon	8425-10-21 01:11 G	4798521.42	4798521.55	4798521.75	0.0088	0.0071
Earth	8425-10-21 02:52 G	4798521.47	4798521.62	4798521.81	0.0088	0.0068 *
Earth	8426-10-23 15:36 G	4798889.08	4798889.15	4798889.26	0.0088	0.0083
Moon	8426-10-23 18:00 G	4798889.17	4798889.25	4798889.39	0.0088	0.0080 *
Mars	8441-12-20 00:57 G	4804425.40	4804425.54	4804425.74	0.0089	0.0072
Mars	8443-11-13 15:07 G	4805118.86	4805119.13	4805119.43	0.0089	0.0014
Mercury	8460-09-13 19:11 G	4811268.28	4811268.30	4811268.34	0.0089	0.0087
Mercury	8460-12-10 21:07 G	4811356.32	4811356.38	4811356.45	0.0089	0.0080
Mercury	8461-03-08 22:33 G	4811444.37	4811444.44	4811444.54	0.0089	0.0073
Venus	8461-04-10 03:36 G	4811476.55	4811476.65	4811476.76	0.0089	0.0079
Mercury	8461-06-05 00:28 G	4811532.43	4811532.52	4811532.63	0.0089	0.0065
Mercury	8461-09-01 02:23 G	4811620.49	4811620.60	4811620.72	0.0089	0.0057
Venus	8461-11-21 17:02 G	4811702.05	4811702.21	4811702.38	0.0089	0.0060
Mercury	8461-11-28 04:04 G	4811708.56	4811708.67	4811708.80	0.0089	0.0049
Mercury	8462-02-24 06:00 G	4811796.62	4811796.75	4811796.88	0.0089	0.0042
Mercury	8462-05-23 07:40 G	4811884.69	4811884.82	4811884.96	0.0089	0.0034
Venus	8462-07-05 06:28 G	4811927.57	4811927.77	4811927.97	0.0089	0.0041
Mercury	8462-08-19 09:21 G	4811972.76	4811972.89	4811973.03	0.0089	0.0027
Mercury	8462-11-15 11:02 G	4812060.83	4812060.96	4812061.11	0.0089	0.0020
Mercury	8463-02-11 12:57 G	4812148.90	4812149.04	4812149.18	0.0089	0.0012
Venus	8463-02-15 19:55 G	4812153.11	4812153.33	4812153.54	0.0089	0.0022
Mercury	8463-05-10 14:38 G	4812236.97	4812237.11	4812237.25	0.0089	0.0004
Mercury	8463-08-06 16:19 G	4812325.04	4812325.18	4812325.33	0.0089	0.0003
Venus	8463-09-29 09:07 G	4812378.67	4812378.88	4812379.11	0.0089	0.0004
Mercury	8463-11-02 18:00 G	4812413.11	4812413.25	4812413.39	0.0089	0.0011
Mercury	8464-01-29 19:40 G	4812501.18	4812501.32	4812501.46	0.0089	0.0018
Mercury	8464-04-26 21:21 G	4812589.25	4812589.39	4812589.53	0.0089	0.0025
Venus	8464-05-11 22:33 G	4812604.23	4812604.44	4812604.66	0.0089	0.0016

Mercury	8464-07-23 23:02 G	4812677.33	4812677.46	4812677.59	0.0089	0.0033
Mercury	8464-10-20 00:28 G	4812765.40	4812765.52	4812765.66	0.0089	0.0041
Venus	8464-12-23 11:45 G	4812829.80	4812829.99	4812830.21	0.0089	0.0036
Mercury	8465-01-16 02:09 G	4812853.48	4812853.59	4812853.72	0.0089	0.0048
Mercury	8465-04-14 03:50 G	4812941.56	4812941.66	4812941.78	0.0089	0.0055
Mercury	8465-07-11 05:45 G	4813029.64	4813029.74	4813029.84	0.0089	0.0062
Venus	8465-08-06 01:11 G	4813055.39	4813055.55	4813055.73	0.0089	0.0055
Mercury	8465-10-07 06:57 G	4813117.72	4813117.79	4813117.90	0.0089	0.0070
Mercury	8466-01-03 08:38 G	4813205.80	4813205.86	4813205.95	0.0089	0.0077
Venus	8466-03-19 14:23 G	4813280.99	4813281.10	4813281.24	0.0089	0.0074
Mercury	8466-04-01 10:19 G	4813293.89	4813293.93	4813293.99	0.0089	0.0084
Moon	8497-03-31 05:02 G	4824615.65	4824615.71	4824615.76	0.0089	0.0087
Earth	8497-03-31 06:00 G	4824615.67	4824615.75	4824615.86	0.0089	0.0083 *
Moon	8498-04-02 17:02 G	4824983.05	4824983.21	4824983.42	0.0089	0.0063
Earth	8498-04-02 17:16 G	4824983.06	4824983.22	4824983.39	0.0089	0.0068 *
Earth	8499-04-05 04:04 G	4825350.47	4825350.67	4825350.88	0.0089	0.0053
Moon	8499-04-05 05:16 G	4825350.55	4825350.72	4825350.93	0.0089	0.0057 *
Moon	8500-04-07 12:57 G	4825717.81	4825718.04	4825718.29	0.0089	0.0033
Earth	8500-04-07 15:07 G	4825717.90	4825718.13	4825718.37	0.0089	0.0038 *
Earth	8501-04-10 01:55 G	4826085.34	4826085.58	4826085.83	0.0089	0.0022
Moon	8501-04-10 04:48 G	4826085.48	4826085.70	4826085.96	0.0089	0.0028 *
Moon	8502-04-12 09:21 G	4826452.64	4826452.89	4826453.15	0.0089	0.0003
Earth	8502-04-12 12:57 G	4826452.79	4826453.04	4826453.30	0.0089	0.0007 *
Earth	8503-04-14 23:45 G	4826820.24	4826820.49	4826820.75	0.0089	0.0008
Moon	8503-04-15 03:21 G	4826820.38	4826820.64	4826820.90	0.0089	0.0004 *
Moon	8504-04-16 07:40 G	4827187.58	4827187.82	4827188.06	0.0089	0.0028
Earth	8504-04-16 10:33 G	4827187.71	4827187.94	4827188.20	0.0089	0.0023 *
Earth	8505-04-18 21:07 G	4827555.16	4827555.38	4827555.62	0.0089	0.0038
Moon	8505-04-18 23:02 G	4827555.23	4827555.46	4827555.72	0.0089	0.0034 *
Moon	8506-04-21 06:28 G	4827922.60	4827922.77	4827922.98	0.0089	0.0057

Earth	8506-04-21 07:40 G	4827922.64	4827922.82	4827923.04	0.0089	0.0053 *
Moon	8507-04-23 17:45 G	4828290.09	4828290.24	4828290.45	0.0089	0.0064
Earth	8507-04-23 18:14 G	4828290.12	4828290.26	4828290.44	0.0089	0.0068 *
Earth	8508-04-25 04:19 G	4828657.62	4828657.68	4828657.81	0.0089	0.0083
Moon	8508-04-25 06:14 G	4828657.73	4828657.76	4828657.83	0.0089	0.0087 *
Mars	8523-09-27 18:43 G	4834291.06	4834291.28	4834291.56	0.0088	0.0061
Mars	8525-08-24 04:33 G	4834987.40	4834987.69	4834988.01	0.0088	0.0042
Jupiter	8528-07-03 04:33 G	4836031.18	4836031.69	4836032.27	0.0088	0.0026
Venus	8542-10-14 23:45 G	4841248.44	4841248.49	4841248.58	0.0088	0.0083
Mercury	8542-12-04 18:00 G	4841299.22	4841299.25	4841299.32	0.0088	0.0084
Mercury	8543-03-02 21:07 G	4841387.29	4841387.38	4841387.47	0.0088	0.0075
Venus	8543-05-28 12:43 G	4841473.89	4841474.03	4841474.19	0.0088	0.0065
Mercury	8543-05-29 23:31 G	4841475.38	4841475.48	4841475.60	0.0088	0.0067
Mercury	8543-08-26 01:55 G	4841563.47	4841563.58	4841563.72	0.0088	0.0059
Mercury	8543-11-22 04:33 G	4841651.57	4841651.69	4841651.85	0.0088	0.0051
Venus	8544-01-09 01:11 G	4841699.38	4841699.55	4841699.75	0.0088	0.0047
Mercury	8544-02-18 07:26 G	4841739.66	4841739.81	4841739.97	0.0088	0.0042
Mercury	8544-05-16 10:04 G	4841827.77	4841827.92	4841828.09	0.0088	0.0034
Mercury	8544-08-12 12:57 G	4841915.87	4841916.04	4841916.20	0.0088	0.0025
Venus	8544-08-21 13:55 G	4841924.89	4841925.08	4841925.30	0.0088	0.0029
Mercury	8544-11-08 15:21 G	4842003.98	4842004.14	4842004.32	0.0088	0.0017
Mercury	8545-02-04 18:14 G	4842092.09	4842092.26	4842092.43	0.0088	0.0008
Venus	8545-04-04 02:52 G	4842150.40	4842150.62	4842150.84	0.0088	0.0011
Mercury	8545-05-03 20:52 G	4842180.20	4842180.37	4842180.55	0.0088	0.0001
Mercury	8545-07-30 23:31 G	4842268.31	4842268.48	4842268.66	0.0088	0.0009
Mercury	8545-10-27 02:23 G	4842356.43	4842356.60	4842356.77	0.0088	0.0017
Venus	8545-11-15 15:21 G	4842375.93	4842376.14	4842376.37	0.0088	0.0008
Mercury	8546-01-23 05:02 G	4842444.55	4842444.71	4842444.88	0.0088	0.0026
Mercury	8546-04-21 07:40 G	4842532.67	4842532.82	4842532.99	0.0088	0.0035
Venus	8546-06-29 03:50 G	4842601.46	4842601.66	4842601.88	0.0088	0.0026

Mercury	8546-07-18 10:33 G	4842620.79	4842620.94	4842621.10	0.0088	0.0043
Mercury	8546-10-14 13:11 G	4842708.92	4842709.05	4842709.20	0.0088	0.0052
Mercury	8547-01-10 15:50 G	4842797.05	4842797.16	4842797.30	0.0088	0.0061
Venus	8547-02-09 16:19 G	4842827.01	4842827.18	4842827.39	0.0088	0.0044
Mercury	8547-04-08 18:57 G	4842885.18	4842885.29	4842885.40	0.0088	0.0069
Mercury	8547-07-05 21:36 G	4842973.33	4842973.40	4842973.49	0.0088	0.0078
Venus	8547-09-23 04:48 G	4843052.57	4843052.70	4843052.88	0.0088	0.0062
Mercury	8547-10-02 00:14 G	4843061.50	4843061.51	4843061.55	0.0088	0.0087
Venus	8548-05-05 17:31 G	4843278.16	4843278.23	4843278.34	0.0088	0.0080
Earth	8580-09-30 18:57 G	4855114.18	4855114.29	4855114.45	0.0088	0.0075
Moon	8580-09-30 21:50 G	4855114.30	4855114.41	4855114.58	0.0088	0.0075 *
Moon	8581-10-03 04:04 G	4855481.50	4855481.67	4855481.87	0.0088	0.0062
Earth	8581-10-03 07:40 G	4855481.65	4855481.82	4855482.03	0.0088	0.0061 *
Earth	8582-10-05 20:23 G	4855849.13	4855849.35	4855849.57	0.0088	0.0046
Moon	8582-10-05 23:45 G	4855849.28	4855849.49	4855849.73	0.0088	0.0044 *
Moon	8583-10-08 05:45 G	4856216.50	4856216.74	4856216.98	0.0088	0.0033
Earth	8583-10-08 08:23 G	4856216.62	4856216.85	4856217.11	0.0088	0.0031 *
Earth	8584-10-09 21:07 G	4856584.13	4856584.38	4856584.64	0.0088	0.0016
Moon	8584-10-10 00:00 G	4856584.24	4856584.50	4856584.77	0.0088	0.0013 *
Moon	8585-10-12 08:38 G	4856951.61	4856951.86	4856952.12	0.0088	0.0003
Earth	8585-10-12 09:50 G	4856951.65	4856951.91	4856952.17	0.0088	0.0001 *
Earth	8586-10-14 22:04 G	4857319.17	4857319.42	4857319.69	0.0088	0.0014
Moon	8586-10-14 22:19 G	4857319.17	4857319.43	4857319.70	0.0088	0.0016 *
Earth	8587-10-17 10:33 G	4857686.71	4857686.94	4857687.20	0.0088	0.0029
Moon	8587-10-17 11:31 G	4857686.74	4857686.98	4857687.23	0.0088	0.0027 *
Moon	8588-10-18 20:38 G	4858054.15	4858054.36	4858054.61	0.0088	0.0046
Earth	8588-10-18 23:02 G	4858054.26	4858054.46	4858054.71	0.0088	0.0045 *
Earth	8589-10-21 11:45 G	4858421.82	4858421.99	4858422.21	0.0088	0.0060
Moon	8589-10-21 14:52 G	4858421.93	4858422.12	4858422.33	0.0088	0.0057 *
Moon	8590-10-23 20:52 G	4858789.27	4858789.37	4858789.53	0.0088	0.0078

Earth	8590-10-24 00:28 G	4858789.41	4858789.52	4858789.69	0.0088	0.0075 *
Moon	8591-10-26 17:31 G	4859157.17	4859157.23	4859157.29	0.0088	0.0086
Mars	8607-07-01 07:55 G	4864882.56	4864882.83	4864883.12	0.0089	0.0024
Mars	8609-05-24 20:23 G	4865576.17	4865576.35	4865576.58	0.0089	0.0061
Mercury	8625-06-12 18:57 G	4871439.25	4871439.29	4871439.35	0.0089	0.0084
Venus	8625-07-14 14:23 G	4871471.06	4871471.10	4871471.17	0.0089	0.0087
Mercury	8625-09-08 20:52 G	4871527.30	4871527.37	4871527.45	0.0089	0.0076
Mercury	8625-12-05 22:33 G	4871615.35	4871615.44	4871615.54	0.0089	0.0068
Venus	8626-02-25 03:36 G	4871696.53	4871696.65	4871696.81	0.0089	0.0068
Mercury	8626-03-04 00:28 G	4871703.41	4871703.52	4871703.63	0.0089	0.0061
Mercury	8626-05-31 01:55 G	4871791.48	4871791.58	4871791.71	0.0089	0.0054
Mercury	8626-08-27 03:50 G	4871879.54	4871879.66	4871879.79	0.0089	0.0046
Venus	8626-10-08 17:16 G	4871922.05	4871922.22	4871922.42	0.0089	0.0049
Mercury	8626-11-23 05:31 G	4871967.61	4871967.73	4871967.87	0.0089	0.0039
Mercury	8627-02-19 07:26 G	4872055.68	4872055.81	4872055.95	0.0089	0.0031
Mercury	8627-05-18 09:07 G	4872143.75	4872143.88	4872144.03	0.0089	0.0023
Venus	8627-05-22 06:43 G	4872147.58	4872147.78	4872148.00	0.0089	0.0029
Mercury	8627-08-14 11:02 G	4872231.82	4872231.96	4872232.10	0.0089	0.0015
Mercury	8627-11-10 12:43 G	4872319.89	4872320.03	4872320.17	0.0089	0.0008
Venus	8628-01-02 20:09 G	4872373.13	4872373.34	4872373.56	0.0089	0.0010
Mercury	8628-02-06 14:23 G	4872407.96	4872408.10	4872408.25	0.0089	0.0001
Mercury	8628-05-04 16:04 G	4872496.03	4872496.17	4872496.32	0.0089	0.0007
Mercury	8628-07-31 17:45 G	4872584.10	4872584.24	4872584.38	0.0089	0.0014
Venus	8628-08-15 09:21 G	4872598.68	4872598.89	4872599.12	0.0089	0.0010
Mercury	8628-10-27 19:26 G	4872672.17	4872672.31	4872672.45	0.0089	0.0022
Mercury	8629-01-23 21:07 G	4872760.25	4872760.38	4872760.52	0.0089	0.0029
Venus	8629-03-28 22:33 G	4872824.25	4872824.44	4872824.67	0.0089	0.0029
Mercury	8629-04-21 22:48 G	4872848.32	4872848.45	4872848.58	0.0089	0.0036
Mercury	8629-07-19 00:28 G	4872936.40	4872936.52	4872936.65	0.0089	0.0044
Mercury	8629-10-15 01:55 G	4873024.48	4873024.58	4873024.71	0.0089	0.0051



Venus	8629-11-09 12:00 G	4873049.83	4873050.00	4873050.21	0.0089	0.0048
Mercury	8630-01-11 03:36 G	4873112.55	4873112.65	4873112.77	0.0089	0.0059
Mercury	8630-04-09 05:16 G	4873200.64	4873200.72	4873200.83	0.0089	0.0066
Venus	8630-06-23 01:26 G	4873275.43	4873275.56	4873275.73	0.0089	0.0067
Mercury	8630-07-06 06:57 G	4873288.72	4873288.79	4873288.88	0.0089	0.0073
Mercury	8630-10-02 08:38 G	4873376.81	4873376.86	4873376.93	0.0089	0.0080
Mercury	8630-12-29 10:04 G	4873464.91	4873464.92	4873464.97	0.0089	0.0087
Venus	8631-02-03 14:38 G	4873501.07	4873501.11	4873501.20	0.0089	0.0086
Moon	8661-04-01 16:19 G	4884516.17	4884516.18	4884516.25	0.0089	0.0089
Earth	8661-04-01 17:16 G	4884516.20	4884516.22	4884516.25	0.0089	0.0089 *
Earth	8662-04-04 03:50 G	4884883.54	4884883.66	4884883.83	0.0089	0.0074
Moon	8662-04-04 05:16 G	4884883.61	4884883.72	4884883.87	0.0089	0.0075 *
Moon	8663-04-06 12:00 G	4885250.83	4885251.00	4885251.22	0.0089	0.0060
Earth	8663-04-06 15:07 G	4885250.96	4885251.13	4885251.33	0.0089	0.0059 *
Earth	8664-04-08 02:09 G	4885618.38	4885618.59	4885618.82	0.0089	0.0044
Moon	8664-04-08 05:16 G	4885618.51	4885618.72	4885618.95	0.0089	0.0045 *
Moon	8665-04-10 09:21 G	4885985.66	4885985.89	4885986.14	0.0089	0.0028
Earth	8665-04-10 13:11 G	4885985.81	4885986.05	4885986.29	0.0089	0.0029 *
Earth	8666-04-13 00:00 G	4886353.25	4886353.50	4886353.76	0.0089	0.0015
Moon	8666-04-13 03:21 G	4886353.39	4886353.64	4886353.90	0.0089	0.0015 *
Moon	8667-04-15 08:23 G	4886720.60	4886720.85	4886721.10	0.0089	0.0002
Earth	8667-04-15 11:02 G	4886720.71	4886720.96	4886721.22	0.0089	0.0001 *
Earth	8668-04-16 21:50 G	4887088.16	4887088.41	4887088.66	0.0089	0.0015
Moon	8668-04-16 23:45 G	4887088.24	4887088.49	4887088.76	0.0089	0.0014 *
Moon	8669-04-19 08:23 G	4887455.62	4887455.85	4887456.08	0.0089	0.0031
Earth	8669-04-19 08:38 G	4887455.63	4887455.86	4887456.10	0.0089	0.0030 *
Moon	8670-04-21 18:28 G	4887823.06	4887823.27	4887823.52	0.0089	0.0044
Earth	8670-04-21 19:11 G	4887823.10	4887823.30	4887823.53	0.0089	0.0045 *
Earth	8671-04-24 05:45 G	4888190.57	4888190.74	4888190.95	0.0089	0.0060
Moon	8671-04-24 07:26 G	4888190.65	4888190.81	4888191.01	0.0089	0.0062 *

Moon	8672-04-25 13:11 G	4888557.93	4888558.05	4888558.22	0.0089	0.0074
Earth	8672-04-25 16:48 G	4888558.07	4888558.20	4888558.34	0.0089	0.0074 *
Earth	8673-04-28 03:07 G	4888925.63	4888925.63	4888925.65	0.0089	0.0089
Mars	8689-04-07 15:50 G	4894748.82	4894749.16	4894749.51	0.0088	0.0004
Jupiter	8694-09-12 07:40 G	4896732.41	4896732.82	4896733.30	0.0088	0.0055
Mercury	8707-06-06 14:52 G	4901382.12	4901382.12	4901382.15	0.0088	0.0088
Venus	8707-09-01 00:14 G	4901468.40	4901468.51	4901468.65	0.0088	0.0072
Mercury	8707-09-02 17:45 G	4901470.17	4901470.24	4901470.31	0.0088	0.0079
Mercury	8707-11-29 20:09 G	4901558.25	4901558.34	4901558.45	0.0088	0.0071
Mercury	8708-02-25 22:48 G	4901646.34	4901646.45	4901646.58	0.0088	0.0063
Venus	8708-04-13 12:57 G	4901693.88	4901694.04	4901694.23	0.0088	0.0054
Mercury	8708-05-24 01:11 G	4901734.43	4901734.55	4901734.70	0.0088	0.0055
Mercury	8708-08-20 04:04 G	4901822.53	4901822.67	4901822.82	0.0088	0.0046
Mercury	8708-11-16 06:43 G	4901910.63	4901910.78	4901910.94	0.0088	0.0038
Venus	8708-11-25 01:40 G	4901919.38	4901919.57	4901919.78	0.0088	0.0036
Mercury	8709-02-12 09:21 G	4901998.73	4901998.89	4901999.06	0.0088	0.0030
Mercury	8709-05-11 12:00 G	4902086.84	4902087.00	4902087.18	0.0088	0.0021
Venus	8709-07-08 14:23 G	4902144.89	4902145.10	4902145.32	0.0088	0.0018
Mercury	8709-08-07 14:38 G	4902174.95	4902175.11	4902175.29	0.0088	0.0013
Mercury	8709-11-03 17:31 G	4902263.06	4902263.23	4902263.40	0.0088	0.0004
Mercury	8710-01-30 20:09 G	4902351.17	4902351.34	4902351.52	0.0088	0.0005
Venus	8710-02-19 03:07 G	4902370.41	4902370.63	4902370.85	0.0088	0.0002
Mercury	8710-04-28 22:48 G	4902439.28	4902439.45	4902439.63	0.0088	0.0013
Mercury	8710-07-26 01:26 G	4902527.40	4902527.56	4902527.74	0.0088	0.0022
Venus	8710-10-02 15:36 G	4902595.95	4902596.15	4902596.38	0.0088	0.0019
Mercury	8710-10-22 04:19 G	4902615.52	4902615.68	4902615.85	0.0088	0.0030
Mercury	8711-01-18 06:57 G	4902703.64	4902703.79	4902703.95	0.0088	0.0039
Mercury	8711-04-16 09:36 G	4902791.77	4902791.90	4902792.06	0.0088	0.0048
Venus	8711-05-16 04:19 G	4902821.49	4902821.68	4902821.89	0.0088	0.0037
Mercury	8711-07-13 12:28 G	4902879.89	4902880.02	4902880.16	0.0088	0.0056

Mercury	8711-10-09 15:07 G	4902968.03	4902968.13	4902968.26	0.0088	0.0065
Venus	8711-12-27 16:48 G	4903047.05	4903047.20	4903047.39	0.0088	0.0055
Mercury	8712-01-05 17:45 G	4903056.17	4903056.24	4903056.35	0.0088	0.0074
Mercury	8712-04-02 20:38 G	4903144.32	4903144.36	4903144.43	0.0088	0.0083
Venus	8712-08-09 05:31 G	4903272.62	4903272.73	4903272.86	0.0088	0.0073
Moon	8744-10-02 01:40 G	4915014.46	4915014.57	4915014.71	0.0088	0.0077
Earth	8744-10-02 05:02 G	4915014.63	4915014.71	4915014.83	0.0088	0.0081 *
Earth	8745-10-04 17:45 G	4915382.08	4915382.24	4915382.42	0.0088	0.0066
Moon	8745-10-04 20:52 G	4915382.24	4915382.37	4915382.55	0.0088	0.0071 *
Moon	8746-10-07 03:21 G	4915749.43	4915749.64	4915749.86	0.0088	0.0048
Earth	8746-10-07 05:45 G	4915749.55	4915749.74	4915749.97	0.0088	0.0053 *
Earth	8747-10-09 18:28 G	4916117.05	4916117.27	4916117.52	0.0088	0.0038
Moon	8747-10-09 20:23 G	4916117.12	4916117.35	4916117.60	0.0088	0.0041 *
Moon	8748-10-11 06:00 G	4916484.52	4916484.75	4916485.01	0.0088	0.0019
Earth	8748-10-11 06:57 G	4916484.56	4916484.79	4916485.06	0.0088	0.0024 *
Moon	8749-10-13 19:11 G	4916852.03	4916852.30	4916852.57	0.0088	0.0012
Earth	8749-10-13 19:40 G	4916852.06	4916852.32	4916852.59	0.0088	0.0008 *
Earth	8750-10-16 08:09 G	4917219.58	4917219.84	4917220.11	0.0088	0.0007
Moon	8750-10-16 09:50 G	4917219.67	4917219.91	4917220.17	0.0088	0.0011 *
Moon	8751-10-18 18:14 G	4917587.01	4917587.26	4917587.53	0.0088	0.0018
Earth	8751-10-18 20:38 G	4917587.12	4917587.36	4917587.62	0.0088	0.0022 *
Earth	8752-10-20 09:07 G	4917954.65	4917954.88	4917955.13	0.0088	0.0036
Moon	8752-10-20 12:43 G	4917954.81	4917955.03	4917955.26	0.0088	0.0041 *
Moon	8753-10-22 18:00 G	4918322.05	4918322.25	4918322.49	0.0088	0.0047
Earth	8753-10-22 21:36 G	4918322.21	4918322.40	4918322.63	0.0088	0.0051 *
Earth	8754-10-25 10:04 G	4918689.77	4918689.92	4918690.11	0.0088	0.0066
Moon	8754-10-25 13:26 G	4918689.93	4918690.06	4918690.25	0.0088	0.0070 *
Moon	8755-10-27 19:55 G	4919057.22	4919057.33	4919057.48	0.0088	0.0077
Earth	8755-10-27 22:48 G	4919057.37	4919057.45	4919057.58	0.0088	0.0081 *
Mars	8771-02-14 22:19 G	4924646.25	4924646.43	4924646.67	0.0089	0.0061

Mars	8773-01-08 13:55 G	4925339.81	4925340.08	4925340.37	0.0089	0.0024
Mercury	8789-12-12 16:48 G	4931522.19	4931522.20	4931522.25	0.0089	0.0088
Mercury	8790-03-10 18:43 G	4931610.23	4931610.28	4931610.36	0.0089	0.0080
Venus	8790-05-30 15:21 G	4931691.03	4931691.14	4931691.27	0.0089	0.0075
Mercury	8790-06-06 20:52 G	4931698.28	4931698.37	4931698.45	0.0089	0.0072
Mercury	8790-09-02 22:19 G	4931786.34	4931786.43	4931786.54	0.0089	0.0065
Mercury	8790-11-30 00:14 G	4931874.40	4931874.51	4931874.63	0.0089	0.0057
Venus	8791-01-11 04:33 G	4931916.53	4931916.69	4931916.87	0.0089	0.0056
Mercury	8791-02-26 01:55 G	4931962.47	4931962.58	4931962.71	0.0089	0.0049
Mercury	8791-05-25 03:50 G	4932050.53	4932050.66	4932050.79	0.0089	0.0042
Mercury	8791-08-21 05:31 G	4932138.60	4932138.73	4932138.87	0.0089	0.0034
Venus	8791-08-24 18:00 G	4932142.05	4932142.25	4932142.46	0.0089	0.0037
Mercury	8791-11-17 07:11 G	4932226.67	4932226.80	4932226.95	0.0089	0.0027
Mercury	8792-02-13 09:07 G	4932314.74	4932314.88	4932315.02	0.0089	0.0019
Venus	8792-04-06 07:26 G	4932367.59	4932367.81	4932368.03	0.0089	0.0018
Mercury	8792-05-11 10:48 G	4932402.81	4932402.95	4932403.10	0.0089	0.0012
Mercury	8792-08-07 12:28 G	4932490.88	4932491.02	4932491.17	0.0089	0.0005
Mercury	8792-11-03 14:09 G	4932578.95	4932579.09	4932579.24	0.0089	0.0004
Venus	8792-11-17 20:52 G	4932593.15	4932593.37	4932593.59	0.0089	0.0002
Mercury	8793-01-30 15:50 G	4932667.02	4932667.16	4932667.31	0.0089	0.0011
Mercury	8793-04-28 17:31 G	4932755.10	4932755.23	4932755.38	0.0089	0.0019
Venus	8793-07-01 10:04 G	4932818.71	4932818.92	4932819.14	0.0089	0.0021
Mercury	8793-07-25 19:11 G	4932843.17	4932843.30	4932843.44	0.0089	0.0026
Mercury	8793-10-21 21:07 G	4932931.24	4932931.38	4932931.51	0.0089	0.0033
Mercury	8794-01-17 22:33 G	4933019.32	4933019.44	4933019.57	0.0089	0.0040
Venus	8794-02-11 23:31 G	4933044.28	4933044.48	4933044.68	0.0089	0.0040
Mercury	8794-04-16 00:14 G	4933107.40	4933107.51	4933107.64	0.0089	0.0048
Mercury	8794-07-13 01:55 G	4933195.47	4933195.58	4933195.70	0.0089	0.0055
Venus	8794-09-25 12:57 G	4933269.87	4933270.04	4933270.20	0.0089	0.0059
Mercury	8794-10-09 03:21 G	4933283.55	4933283.64	4933283.76	0.0089	0.0063

Mercury	8795-01-05 05:02 G	4933371.64	4933371.71	4933371.81	0.0089	0.0070
Mercury	8795-04-03 06:43 G	4933459.72	4933459.78	4933459.86	0.0089	0.0077
Venus	8795-05-09 01:40 G	4933495.49	4933495.57	4933495.70	0.0089	0.0079
Mercury	8795-06-30 08:23 G	4933547.81	4933547.85	4933547.91	0.0089	0.0084
Moon	8826-04-04 12:43 G	4944783.97	4944784.03	4944784.13	0.0089	0.0085
Earth	8826-04-04 15:07 G	4944784.05	4944784.13	4944784.27	0.0089	0.0081 *
Earth	8827-04-07 02:38 G	4945151.45	4945151.61	4945151.79	0.0089	0.0066
Moon	8827-04-07 06:28 G	4945151.59	4945151.77	4945151.95	0.0089	0.0061 *
Moon	8828-04-08 10:04 G	4945518.74	4945518.92	4945519.13	0.0089	0.0056
Earth	8828-04-08 13:11 G	4945518.87	4945519.05	4945519.28	0.0089	0.0052 *
Earth	8829-04-11 00:28 G	4945886.29	4945886.52	4945886.76	0.0089	0.0036
Moon	8829-04-11 03:36 G	4945886.43	4945886.65	4945886.91	0.0089	0.0032 *
Moon	8830-04-13 09:07 G	4946253.65	4946253.88	4946254.13	0.0089	0.0027
Earth	8830-04-13 11:31 G	4946253.74	4946253.98	4946254.23	0.0089	0.0022 *
Earth	8831-04-15 22:19 G	4946621.18	4946621.43	4946621.69	0.0089	0.0007
Moon	8831-04-15 23:31 G	4946621.22	4946621.48	4946621.75	0.0089	0.0003 *
Moon	8832-04-17 08:52 G	4946988.62	4946988.87	4946989.11	0.0089	0.0004
Earth	8832-04-17 09:07 G	4946988.63	4946988.88	4946989.14	0.0089	0.0008 *
Moon	8833-04-19 18:14 G	4947356.02	4947356.26	4947356.52	0.0089	0.0027
Earth	8833-04-19 19:40 G	4947356.09	4947356.32	4947356.58	0.0089	0.0023 *
Earth	8834-04-22 06:43 G	4947723.55	4947723.78	4947724.01	0.0089	0.0037
Moon	8834-04-22 08:52 G	4947723.65	4947723.87	4947724.11	0.0089	0.0033 *
Moon	8835-04-24 14:23 G	4948090.91	4948091.10	4948091.31	0.0089	0.0056
Earth	8835-04-24 17:16 G	4948091.03	4948091.22	4948091.45	0.0089	0.0052 *
Earth	8836-04-26 04:04 G	4948458.51	4948458.67	4948458.85	0.0089	0.0066
Moon	8836-04-26 07:26 G	4948458.65	4948458.81	4948459.01	0.0089	0.0062 *
Moon	8837-04-28 11:16 G	4948825.92	4948825.97	4948826.07	0.0089	0.0085
Earth	8837-04-28 14:23 G	4948826.03	4948826.10	4948826.24	0.0089	0.0081 *
Mars	8852-11-20 05:16 G	4954510.46	4954510.72	4954511.04	0.0088	0.0048
Mars	8854-10-17 13:55 G	4955206.82	4955207.08	4955207.37	0.0088	0.0054

Venus	8871-12-03 12:00 G	4961462.92	4961463.00	4961463.10	0.0088	0.0079
Mercury	8872-03-02 14:23 G	4961553.05	4961553.10	4961553.16	0.0088	0.0083
Mercury	8872-05-29 16:48 G	4961641.13	4961641.20	4961641.30	0.0088	0.0075
Venus	8872-07-16 00:28 G	4961688.38	4961688.52	4961688.69	0.0088	0.0061
Mercury	8872-08-25 19:26 G	4961729.21	4961729.31	4961729.43	0.0088	0.0067
Mercury	8872-11-21 21:50 G	4961817.30	4961817.41	4961817.56	0.0088	0.0059
Mercury	8873-02-18 00:43 G	4961905.40	4961905.53	4961905.68	0.0088	0.0050
Venus	8873-02-26 13:11 G	4961913.87	4961914.05	4961914.25	0.0088	0.0043
Mercury	8873-05-17 03:21 G	4961993.50	4961993.64	4961993.80	0.0088	0.0042
Mercury	8873-08-13 06:00 G	4962081.60	4962081.75	4962081.92	0.0088	0.0034
Venus	8873-10-10 01:55 G	4962139.38	4962139.58	4962139.80	0.0088	0.0025
Mercury	8873-11-09 08:38 G	4962169.70	4962169.86	4962170.03	0.0088	0.0025
Mercury	8874-02-05 11:16 G	4962257.81	4962257.97	4962258.15	0.0088	0.0017
Mercury	8874-05-04 14:09 G	4962345.92	4962346.09	4962346.26	0.0088	0.0008
Venus	8874-05-23 14:52 G	4962364.91	4962365.12	4962365.35	0.0088	0.0007
Mercury	8874-07-31 16:48 G	4962434.03	4962434.20	4962434.37	0.0088	0.0001
Mercury	8874-10-27 19:26 G	4962522.14	4962522.31	4962522.49	0.0088	0.0009
Venus	8875-01-04 03:36 G	4962590.44	4962590.65	4962590.87	0.0088	0.0012
Mercury	8875-01-23 22:04 G	4962610.25	4962610.42	4962610.60	0.0088	0.0018
Mercury	8875-04-22 00:57 G	4962698.37	4962698.54	4962698.71	0.0088	0.0026
Mercury	8875-07-19 03:21 G	4962786.49	4962786.64	4962786.81	0.0088	0.0035
Venus	8875-08-17 16:04 G	4962815.97	4962816.17	4962816.39	0.0088	0.0030
Mercury	8875-10-15 06:28 G	4962874.62	4962874.77	4962874.92	0.0088	0.0043
Mercury	8876-01-11 08:52 G	4962962.74	4962962.87	4962963.02	0.0088	0.0052
Venus	8876-03-30 04:48 G	4963041.52	4963041.70	4963041.89	0.0088	0.0048
Mercury	8876-04-08 11:31 G	4963050.87	4963050.98	4963051.12	0.0088	0.0061
Mercury	8876-07-05 14:09 G	4963139.01	4963139.09	4963139.22	0.0088	0.0070
Mercury	8876-10-01 17:16 G	4963227.15	4963227.22	4963227.31	0.0088	0.0078
Venus	8876-11-10 17:31 G	4963267.09	4963267.23	4963267.38	0.0088	0.0066
Mercury	8876-12-28 19:55 G	4963315.32	4963315.33	4963315.37	0.0088	0.0087

Venus	8877-06-24 05:45 G	4963492.71	4963492.74	4963492.82	0.0088	0.0085
Earth	8908-10-02 15:36 G	4974915.11	4974915.15	4974915.20	0.0088	0.0087
Moon	8908-10-02 18:28 G	4974915.23	4974915.27	4974915.33	0.0088	0.0087
Moon	8909-10-05 01:26 G	4975282.41	4975282.56	4975282.70	0.0088	0.0072
Earth	8909-10-05 03:36 G	4975282.51	4975282.65	4975282.81	0.0088	0.0072 *
Earth	8910-10-07 15:50 G	4975649.98	4975650.16	4975650.37	0.0088	0.0058
Moon	8910-10-07 17:16 G	4975650.04	4975650.22	4975650.44	0.0088	0.0059 *
Earth	8911-10-10 04:19 G	4976017.47	4976017.68	4976017.93	0.0088	0.0044
Moon	8911-10-10 04:48 G	4976017.49	4976017.70	4976017.92	0.0088	0.0043 *
Moon	8912-10-11 16:04 G	4976384.93	4976385.17	4976385.44	0.0088	0.0031
Earth	8912-10-11 17:02 G	4976384.98	4976385.21	4976385.47	0.0088	0.0029 *
Earth	8913-10-14 05:31 G	4976752.49	4976752.73	4976753.00	0.0088	0.0016
Moon	8913-10-14 07:55 G	4976752.58	4976752.83	4976753.08	0.0088	0.0013 *
Moon	8914-10-16 15:07 G	4977119.87	4977120.13	4977120.40	0.0088	0.0001
Earth	8914-10-16 18:28 G	4977120.01	4977120.27	4977120.53	0.0088	0.0000 *
Earth	8915-10-19 06:57 G	4977487.54	4977487.79	4977488.05	0.0088	0.0014
Moon	8915-10-19 10:19 G	4977487.68	4977487.93	4977488.19	0.0088	0.0016 *
Moon	8916-10-20 15:36 G	4977854.92	4977855.15	4977855.41	0.0088	0.0028
Earth	8916-10-20 19:26 G	4977855.08	4977855.31	4977855.57	0.0088	0.0029 *
Earth	8917-10-23 07:40 G	4978222.61	4978222.82	4978223.07	0.0088	0.0044
Moon	8917-10-23 10:48 G	4978222.74	4978222.95	4978223.20	0.0088	0.0045 *
Moon	8918-10-25 18:00 G	4978590.06	4978590.25	4978590.45	0.0088	0.0056
Earth	8918-10-25 20:09 G	4978590.17	4978590.34	4978590.57	0.0088	0.0059 *
Earth	8919-10-28 08:52 G	4978957.75	4978957.87	4978958.05	0.0088	0.0073
Moon	8919-10-28 10:48 G	4978957.83	4978957.95	4978958.12	0.0088	0.0075 *
Moon	8920-10-29 21:21 G	4979325.36	4979325.39	4979325.49	0.0088	0.0086
Earth	8920-10-29 21:50 G	4979325.38	4979325.41	4979325.48	0.0088	0.0087 *
Mars	8936-08-25 05:31 G	4985103.45	4985103.73	4985104.02	0.0089	0.0013
Mars	8938-07-19 19:55 G	4985797.18	4985797.33	4985797.51	0.0089	0.0072
Venus	8954-09-02 03:07 G	4991685.55	4991685.63	4991685.72	0.0089	0.0082

Mercury	8954-09-09 17:02 G	4991693.16	4991693.21	4991693.27	0.0089	0.0083
Mercury	8954-12-06 18:43 G	4991781.21	4991781.28	4991781.37	0.0089	0.0075
Mercury	8955-03-04 20:38 G	4991869.27	4991869.36	4991869.46	0.0089	0.0068
Venus	8955-04-15 16:19 G	4991911.03	4991911.18	4991911.35	0.0089	0.0063
Mercury	8955-05-31 22:19 G	4991957.33	4991957.43	4991957.55	0.0089	0.0060
Mercury	8955-08-28 00:14 G	4992045.40	4992045.51	4992045.63	0.0089	0.0052
Mercury	8955-11-24 02:09 G	4992133.46	4992133.59	4992133.71	0.0089	0.0045
Venus	8955-11-27 05:45 G	4992136.56	4992136.74	4992136.94	0.0089	0.0044
Mercury	8956-02-20 03:36 G	4992221.53	4992221.65	4992221.79	0.0089	0.0038
Mercury	8956-05-18 05:31 G	4992309.60	4992309.73	4992309.87	0.0089	0.0030
Venus	8956-07-09 19:11 G	4992362.09	4992362.30	4992362.51	0.0089	0.0025
Mercury	8956-08-14 07:11 G	4992397.67	4992397.80	4992397.95	0.0089	0.0023
Mercury	8956-11-10 09:07 G	4992485.74	4992485.88	4992486.02	0.0089	0.0015
Mercury	8957-02-06 10:48 G	4992573.81	4992573.95	4992574.09	0.0089	0.0007
Venus	8957-02-20 08:38 G	4992587.64	4992587.86	4992588.08	0.0089	0.0006
Mercury	8957-05-05 12:28 G	4992661.88	4992662.02	4992662.17	0.0089	0.0002
Mercury	8957-08-01 14:09 G	4992749.95	4992750.09	4992750.24	0.0089	0.0008
Venus	8957-10-03 21:50 G	4992813.20	4992813.41	4992813.63	0.0089	0.0014
Mercury	8957-10-28 15:50 G	4992838.02	4992838.16	4992838.31	0.0089	0.0015
Mercury	8958-01-24 17:31 G	4992926.10	4992926.23	4992926.37	0.0089	0.0023
Mercury	8958-04-22 19:26 G	4993014.17	4993014.31	4993014.44	0.0089	0.0030
Venus	8958-05-17 11:16 G	4993038.76	4993038.97	4993039.17	0.0089	0.0033
Mercury	8958-07-19 20:52 G	4993102.25	4993102.37	4993102.51	0.0089	0.0037
Mercury	8958-10-15 22:33 G	4993190.32	4993190.44	4993190.57	0.0089	0.0045
Venus	8958-12-29 00:00 G	4993264.35	4993264.50	4993264.70	0.0089	0.0053
Mercury	8959-01-12 00:14 G	4993278.40	4993278.51	4993278.63	0.0089	0.0052
Mercury	8959-04-10 02:09 G	4993366.48	4993366.59	4993366.69	0.0089	0.0059
Mercury	8959-07-07 03:21 G	4993454.56	4993454.64	4993454.75	0.0089	0.0067
Venus	8959-08-11 13:11 G	4993489.95	4993490.05	4993490.21	0.0089	0.0072
Mercury	8959-10-03 05:02 G	4993542.64	4993542.71	4993542.80	0.0089	0.0074



Mercury	8959-12-30 06:43 G	4993630.73	4993630.78	4993630.85	0.0089	0.0081
Mercury	8960-03-27 08:23 G	4993718.84	4993718.85	4993718.89	0.0089	0.0088
Earth	8990-04-05 03:21 G	5004684.58	5004684.64	5004684.72	0.0089	0.0086
Moon	8990-04-05 06:43 G	5004684.73	5004684.78	5004684.86	0.0089	0.0086
Moon	8991-04-07 10:33 G	5005051.82	5005051.94	5005052.12	0.0089	0.0072
Earth	8991-04-07 14:23 G	5005051.97	5005052.10	5005052.27	0.0089	0.0072 *
Earth	8992-04-09 01:11 G	5005419.38	5005419.55	5005419.77	0.0089	0.0058
Moon	8992-04-09 04:04 G	5005419.49	5005419.67	5005419.89	0.0089	0.0058 *
Moon	8993-04-11 10:19 G	5005786.73	5005786.93	5005787.16	0.0089	0.0043
Earth	8993-04-11 12:43 G	5005786.81	5005787.03	5005787.26	0.0089	0.0043 *
Earth	8994-04-13 23:31 G	5006154.25	5006154.48	5006154.73	0.0089	0.0028
Moon	8994-04-14 00:14 G	5006154.28	5006154.51	5006154.78	0.0089	0.0029 *
Earth	8995-04-16 10:33 G	5006521.69	5006521.94	5006522.19	0.0089	0.0014
Moon	8995-04-16 11:16 G	5006521.73	5006521.97	5006522.21	0.0089	0.0013 *
Moon	8996-04-17 19:55 G	5006889.07	5006889.33	5006889.59	0.0089	0.0001
Earth	8996-04-17 21:21 G	5006889.14	5006889.39	5006889.64	0.0089	0.0001 *
Earth	8997-04-20 07:55 G	5007256.59	5007256.83	5007257.09	0.0089	0.0016
Moon	8997-04-20 10:33 G	5007256.70	5007256.94	5007257.20	0.0089	0.0015 *
Moon	8998-04-22 15:21 G	5007623.91	5007624.14	5007624.39	0.0089	0.0029
Earth	8998-04-22 18:43 G	5007624.05	5007624.28	5007624.53	0.0089	0.0030 *
Earth	8999-04-25 05:16 G	5007991.51	5007991.72	5007991.95	0.0089	0.0044
Moon	8999-04-25 08:38 G	5007991.65	5007991.86	5007992.10	0.0089	0.0043 *
Moon	9000-04-27 12:28 G	5008358.85	5008359.02	5008359.22	0.0089	0.0059
Earth	9000-04-27 16:19 G	5008358.99	5008359.18	5008359.37	0.0089	0.0058 *

# 10TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 10th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	9001-04-30 02:23	G	5008726.48	5008726.60	5008726.77	0.0089	0.0073	
Moon	9001-04-30 05:02	G	5008726.58	5008726.71	5008726.89	0.0089	0.0072	*
Moon	9002-05-02 11:16	G	5009093.96	5009093.97	5009094.03	0.0089	0.0088	
Earth	9002-05-02 12:57	G	5009094.02	5009094.04	5009094.13	0.0089	0.0087	*
Mars	9018-06-02 03:21	G	5014968.31	5014968.64	5014968.99	0.0088	0.0010	
Venus	9036-03-07 23:45	G	5021457.46	5021457.49	5021457.55	0.0088	0.0086	
Mercury	9036-09-02 11:02	G	5021635.95	5021635.96	5021636.00	0.0088	0.0087	
Venus	9036-10-19 12:28	G	5021682.90	5021683.02	5021683.17	0.0088	0.0068	
Mercury	9036-11-29 13:40	G	5021724.01	5021724.07	5021724.16	0.0088	0.0079	
Mercury	9037-02-25 16:04	G	5021812.09	5021812.17	5021812.29	0.0088	0.0071	
Mercury	9037-05-24 18:57	G	5021900.18	5021900.29	5021900.42	0.0088	0.0062	
Venus	9037-06-02 01:11	G	5021908.38	5021908.55	5021908.75	0.0088	0.0050	
Mercury	9037-08-20 21:36	G	5021988.27	5021988.40	5021988.54	0.0088	0.0054	
Mercury	9037-11-17 00:00	G	5022076.37	5022076.50	5022076.66	0.0088	0.0046	
Venus	9038-01-13 13:55	G	5022133.89	5022134.08	5022134.30	0.0088	0.0032	
Mercury	9038-02-13 02:52	G	5022164.47	5022164.62	5022164.78	0.0088	0.0037	
Mercury	9038-05-12 05:31	G	5022252.57	5022252.73	5022252.89	0.0088	0.0029	
Mercury	9038-08-08 07:55	G	5022340.67	5022340.83	5022341.01	0.0088	0.0021	
Venus	9038-08-27 02:52	G	5022359.40	5022359.62	5022359.84	0.0088	0.0013	
Mercury	9038-11-04 10:48	G	5022428.78	5022428.95	5022429.12	0.0088	0.0012	
Mercury	9039-01-31 13:26	G	5022516.89	5022517.06	5022517.24	0.0088	0.0004	
Venus	9039-04-09 15:36	G	5022584.93	5022585.15	5022585.37	0.0088	0.0005	
Mercury	9039-04-29 16:04	G	5022605.00	5022605.17	5022605.35	0.0088	0.0005	
Mercury	9039-07-26 18:43	G	5022693.12	5022693.28	5022693.46	0.0088	0.0014	

Mercury	9039-10-22 21:36 G	5022781.23	5022781.40	5022781.57	0.0088	0.0022
Venus	9039-11-21 04:04 G	5022810.46	5022810.67	5022810.89	0.0088	0.0023
Mercury	9040-01-19 00:00 G	5022869.35	5022869.50	5022869.68	0.0088	0.0031
Mercury	9040-04-16 02:52 G	5022957.47	5022957.62	5022957.78	0.0088	0.0039
Venus	9040-07-03 16:33 G	5023036.01	5023036.19	5023036.40	0.0088	0.0042
Mercury	9040-07-13 05:31 G	5023045.59	5023045.73	5023045.89	0.0088	0.0048
Mercury	9040-10-09 08:09 G	5023133.72	5023133.84	5023133.99	0.0088	0.0057
Mercury	9041-01-05 11:02 G	5023221.85	5023221.96	5023222.09	0.0088	0.0065
Venus	9041-02-14 05:02 G	5023261.57	5023261.71	5023261.89	0.0088	0.0060
Mercury	9041-04-03 13:40 G	5023309.99	5023310.07	5023310.18	0.0088	0.0074
Mercury	9041-06-30 16:19 G	5023398.14	5023398.18	5023398.26	0.0088	0.0083
Venus	9041-09-27 17:45 G	5023487.16	5023487.24	5023487.36	0.0088	0.0078
Earth	9073-10-05 13:40 G	5035182.98	5035183.07	5035183.22	0.0088	0.0079
Moon	9073-10-05 14:23 G	5035182.99	5035183.10	5035183.28	0.0088	0.0075 *
Earth	9074-10-08 01:55 G	5035550.43	5035550.58	5035550.79	0.0088	0.0065
Moon	9074-10-08 02:38 G	5035550.46	5035550.61	5035550.77	0.0088	0.0069 *
Moon	9075-10-10 12:43 G	5035917.81	5035918.03	5035918.27	0.0088	0.0045
Earth	9075-10-10 14:23 G	5035917.91	5035918.10	5035918.34	0.0088	0.0050 *
Earth	9076-10-12 03:21 G	5036285.40	5036285.64	5036285.88	0.0088	0.0036
Moon	9076-10-12 05:16 G	5036285.52	5036285.72	5036285.97	0.0088	0.0041 *
Moon	9077-10-14 12:14 G	5036652.76	5036653.01	5036653.28	0.0088	0.0017
Earth	9077-10-14 15:36 G	5036652.91	5036653.15	5036653.41	0.0088	0.0022 *
Earth	9078-10-17 04:19 G	5037020.42	5037020.68	5037020.94	0.0088	0.0007
Moon	9078-10-17 07:55 G	5037020.58	5037020.83	5037021.10	0.0088	0.0012 *
Moon	9079-10-19 13:40 G	5037387.82	5037388.07	5037388.33	0.0088	0.0012
Earth	9079-10-19 17:02 G	5037387.95	5037388.21	5037388.47	0.0088	0.0007 *
Earth	9080-10-21 05:31 G	5037755.48	5037755.73	5037755.98	0.0088	0.0022
Moon	9080-10-21 08:38 G	5037755.61	5037755.86	5037756.13	0.0088	0.0018 *
Moon	9081-10-23 16:04 G	5038122.96	5038123.17	5038123.41	0.0088	0.0041
Earth	9081-10-23 17:45 G	5038123.02	5038123.24	5038123.50	0.0088	0.0037 *

Earth	9082-10-26 06:28 G	5038490.57	5038490.77	5038491.00	0.0088	0.0051
Moon	9082-10-26 07:40 G	5038490.61	5038490.82	5038491.07	0.0088	0.0047 *
Earth	9083-10-28 19:11 G	5038858.14	5038858.30	5038858.49	0.0088	0.0065
Moon	9083-10-28 19:26 G	5038858.16	5038858.31	5038858.47	0.0088	0.0069 *
Moon	9084-10-30 06:00 G	5039225.63	5039225.75	5039225.92	0.0088	0.0075
Earth	9084-10-30 07:55 G	5039225.73	5039225.83	5039225.96	0.0088	0.0079 *
Mars	9100-04-11 22:04 G	5044867.19	5044867.42	5044867.67	0.0089	0.0049
Mars	9102-03-06 11:45 G	5045560.74	5045560.99	5045561.27	0.0089	0.0036
Venus	9118-12-06 14:23 G	5051680.10	5051680.10	5051680.13	0.0089	0.0089
Mercury	9119-03-12 14:52 G	5051776.10	5051776.12	5051776.17	0.0089	0.0087
Mercury	9119-06-08 17:02 G	5051864.14	5051864.21	5051864.28	0.0089	0.0079
Venus	9119-07-20 03:21 G	5051905.53	5051905.64	5051905.80	0.0089	0.0071
Mercury	9119-09-04 18:28 G	5051952.20	5051952.27	5051952.37	0.0089	0.0072
Mercury	9119-12-01 20:23 G	5052040.26	5052040.35	5052040.46	0.0089	0.0064
Mercury	9120-02-27 22:19 G	5052128.32	5052128.43	5052128.55	0.0089	0.0056
Venus	9120-03-01 17:16 G	5052131.04	5052131.22	5052131.40	0.0089	0.0051
Mercury	9120-05-26 00:00 G	5052216.39	5052216.50	5052216.63	0.0089	0.0049
Mercury	9120-08-22 01:55 G	5052304.45	5052304.58	5052304.71	0.0089	0.0041
Venus	9120-10-13 06:43 G	5052356.58	5052356.78	5052356.99	0.0089	0.0032
Mercury	9120-11-18 03:36 G	5052392.52	5052392.65	5052392.79	0.0089	0.0033
Mercury	9121-02-14 05:31 G	5052480.59	5052480.73	5052480.87	0.0089	0.0026
Mercury	9121-05-13 07:11 G	5052568.66	5052568.80	5052568.95	0.0089	0.0018
Venus	9121-05-26 20:09 G	5052582.12	5052582.34	5052582.56	0.0089	0.0012
Mercury	9121-08-09 09:07 G	5052656.73	5052656.88	5052657.02	0.0089	0.0011
Mercury	9121-11-05 10:48 G	5052744.80	5052744.95	5052745.09	0.0089	0.0003
Venus	9122-01-07 09:21 G	5052807.67	5052807.89	5052808.11	0.0089	0.0007
Mercury	9122-02-01 12:28 G	5052832.87	5052833.02	5052833.16	0.0089	0.0004
Mercury	9122-04-30 14:09 G	5052920.95	5052921.09	5052921.23	0.0089	0.0012
Mercury	9122-07-27 15:50 G	5053009.02	5053009.16	5053009.30	0.0089	0.0019
Venus	9122-08-20 22:19 G	5053033.24	5053033.43	5053033.66	0.0089	0.0027

Mercury	9122-10-23 17:31 G	5053097.10	5053097.23	5053097.37	0.0089	0.0027
Mercury	9123-01-19 18:57 G	5053185.17	5053185.29	5053185.44	0.0089	0.0035
Venus	9123-04-03 11:31 G	5053258.81	5053258.98	5053259.19	0.0089	0.0046
Mercury	9123-04-17 20:52 G	5053273.25	5053273.37	5053273.50	0.0089	0.0041
Mercury	9123-07-14 22:33 G	5053361.32	5053361.44	5053361.56	0.0089	0.0049
Mercury	9123-10-11 00:14 G	5053449.40	5053449.51	5053449.62	0.0089	0.0056
Venus	9123-11-15 00:57 G	5053484.41	5053484.54	5053484.71	0.0089	0.0065
Mercury	9124-01-07 01:40 G	5053537.48	5053537.57	5053537.68	0.0089	0.0063
Mercury	9124-04-04 03:21 G	5053625.57	5053625.64	5053625.74	0.0089	0.0071
Venus	9124-06-27 14:23 G	5053710.04	5053710.10	5053710.19	0.0089	0.0084
Mercury	9124-07-01 05:02 G	5053713.65	5053713.71	5053713.79	0.0089	0.0078
Mercury	9124-09-27 06:43 G	5053801.75	5053801.78	5053801.83	0.0089	0.0085
Moon	9154-04-06 11:02 G	5064584.93	5064584.96	5064585.04	0.0089	0.0087
Earth	9155-04-09 01:26 G	5064952.46	5064952.56	5064952.71	0.0089	0.0078
Moon	9155-04-09 04:48 G	5064952.61	5064952.70	5064952.81	0.0089	0.0082 *
Moon	9156-04-10 12:00 G	5065319.82	5065320.00	5065320.19	0.0089	0.0059
Earth	9156-04-10 12:43 G	5065319.88	5065320.03	5065320.24	0.0089	0.0064 *
Earth	9157-04-13 00:28 G	5065687.31	5065687.52	5065687.73	0.0089	0.0049
Moon	9157-04-13 00:57 G	5065687.33	5065687.54	5065687.75	0.0089	0.0053 *
Earth	9158-04-15 11:31 G	5066054.75	5066054.98	5066055.21	0.0089	0.0035
Moon	9158-04-15 11:45 G	5066054.78	5066054.99	5066055.24	0.0089	0.0031 *
Moon	9159-04-17 19:55 G	5066422.08	5066422.33	5066422.59	0.0089	0.0025
Earth	9159-04-17 22:04 G	5066422.19	5066422.42	5066422.68	0.0089	0.0021 *
Earth	9160-04-19 09:07 G	5066789.63	5066789.88	5066790.14	0.0089	0.0006
Moon	9160-04-19 12:00 G	5066789.75	5066790.00	5066790.25	0.0089	0.0002 *
Moon	9161-04-21 16:33 G	5067156.94	5067157.19	5067157.45	0.0089	0.0004
Earth	9161-04-21 20:09 G	5067157.09	5067157.34	5067157.59	0.0089	0.0008 *
Earth	9162-04-24 06:43 G	5067524.54	5067524.78	5067525.03	0.0089	0.0023
Moon	9162-04-24 10:04 G	5067524.69	5067524.92	5067525.17	0.0089	0.0027 *
Moon	9163-04-26 14:23 G	5067891.87	5067892.10	5067892.34	0.0089	0.0032

Earth	9163-04-26 17:16 G	5067892.00	5067892.22	5067892.47	0.0089	0.0037 *
Earth	9164-04-28 03:50 G	5068259.47	5068259.66	5068259.89	0.0089	0.0051
Moon	9164-04-28 06:57 G	5068259.59	5068259.79	5068260.00	0.0089	0.0055 *
Moon	9165-04-30 13:26 G	5068626.91	5068627.06	5068627.27	0.0089	0.0061
Earth	9165-04-30 14:38 G	5068626.96	5068627.11	5068627.30	0.0089	0.0065 *
Earth	9166-05-03 01:11 G	5068994.46	5068994.55	5068994.69	0.0089	0.0079
Moon	9166-05-03 01:26 G	5068994.49	5068994.56	5068994.68	0.0089	0.0083 *
Moon	9167-05-05 13:11 G	5069362.04	5069362.05	5069362.09	0.0089	0.0088
Mars	9182-01-14 17:31 G	5074729.93	5074730.23	5074730.56	0.0088	0.0034
Mars	9183-12-12 00:57 G	5075426.35	5075426.54	5075426.79	0.0088	0.0068
Venus	9201-01-22 00:28 G	5081677.42	5081677.52	5081677.65	0.0088	0.0075
Mercury	9201-05-31 10:48 G	5081806.90	5081806.95	5081807.02	0.0088	0.0082
Mercury	9201-08-27 13:11 G	5081894.97	5081895.05	5081895.15	0.0088	0.0074
Venus	9201-09-04 12:57 G	5081902.90	5081903.04	5081903.23	0.0088	0.0057
Mercury	9201-11-23 15:36 G	5081983.06	5081983.15	5081983.28	0.0088	0.0066
Mercury	9202-02-19 18:14 G	5082071.15	5082071.26	5082071.40	0.0088	0.0058
Venus	9202-04-18 02:09 G	5082128.40	5082128.59	5082128.79	0.0088	0.0038
Mercury	9202-05-18 21:07 G	5082159.24	5082159.38	5082159.52	0.0088	0.0049
Mercury	9202-08-14 23:31 G	5082247.34	5082247.48	5082247.64	0.0088	0.0041
Mercury	9202-11-11 02:09 G	5082335.44	5082335.59	5082335.76	0.0088	0.0033
Venus	9202-11-29 14:38 G	5082353.91	5082354.11	5082354.34	0.0088	0.0020
Mercury	9203-02-07 05:02 G	5082423.54	5082423.71	5082423.87	0.0088	0.0024
Mercury	9203-05-06 07:40 G	5082511.65	5082511.82	5082511.99	0.0088	0.0016
Venus	9203-07-13 03:36 G	5082579.43	5082579.65	5082579.87	0.0088	0.0002
Mercury	9203-08-02 10:19 G	5082599.76	5082599.93	5082600.10	0.0088	0.0007
Mercury	9203-10-29 12:57 G	5082687.87	5082688.04	5082688.21	0.0088	0.0001
Mercury	9204-01-25 15:36 G	5082775.98	5082776.15	5082776.32	0.0088	0.0010
Venus	9204-02-23 16:04 G	5082804.96	5082805.17	5082805.39	0.0088	0.0017
Mercury	9204-04-22 18:14 G	5082864.09	5082864.26	5082864.43	0.0088	0.0018
Mercury	9204-07-19 20:52 G	5082952.21	5082952.37	5082952.54	0.0088	0.0027

Venus	9204-10-06 04:33 G	5083030.50	5083030.69	5083030.90	0.0088	0.0035
Mercury	9204-10-15 23:45 G	5083040.33	5083040.49	5083040.65	0.0088	0.0035
Mercury	9205-01-12 02:09 G	5083128.45	5083128.59	5083128.75	0.0088	0.0044
Mercury	9205-04-10 04:48 G	5083216.58	5083216.70	5083216.86	0.0088	0.0053
Venus	9205-05-19 17:31 G	5083256.06	5083256.23	5083256.41	0.0088	0.0053
Mercury	9205-07-07 07:55 G	5083304.71	5083304.83	5083304.95	0.0088	0.0061
Mercury	9205-10-03 10:19 G	5083392.84	5083392.93	5083393.05	0.0088	0.0070
Mercury	9205-12-30 12:57 G	5083480.98	5083481.04	5083481.14	0.0088	0.0079
Venus	9205-12-31 05:45 G	5083481.64	5083481.74	5083481.89	0.0088	0.0072
Mercury	9206-03-28 15:50 G	5083569.16	5083569.16	5083569.19	0.0088	0.0088
Earth	9237-10-06 00:28 G	5095083.46	5095083.52	5095083.63	0.0088	0.0083
Moon	9237-10-06 01:55 G	5095083.51	5095083.58	5095083.68	0.0088	0.0082 *
Moon	9238-10-08 11:16 G	5095450.82	5095450.97	5095451.14	0.0088	0.0069
Earth	9238-10-08 12:57 G	5095450.90	5095451.04	5095451.22	0.0088	0.0070 *
Earth	9239-10-11 01:26 G	5095818.37	5095818.56	5095818.77	0.0088	0.0056
Moon	9239-10-11 04:19 G	5095818.50	5095818.68	5095818.90	0.0088	0.0055 *
Moon	9240-10-12 10:04 G	5096185.70	5096185.92	5096186.16	0.0088	0.0042
Earth	9240-10-12 13:40 G	5096185.85	5096186.07	5096186.31	0.0088	0.0042 *
Earth	9241-10-15 02:09 G	5096553.34	5096553.59	5096553.84	0.0088	0.0028
Moon	9241-10-15 05:45 G	5096553.50	5096553.74	5096553.99	0.0088	0.0028 *
Moon	9242-10-17 11:31 G	5096920.72	5096920.98	5096921.23	0.0088	0.0014
Earth	9242-10-17 14:52 G	5096920.86	5096921.12	5096921.38	0.0088	0.0013 *
Earth	9243-10-20 03:21 G	5097288.37	5097288.64	5097288.90	0.0088	0.0002
Moon	9243-10-20 05:45 G	5097288.47	5097288.74	5097289.01	0.0088	0.0000 *
Moon	9244-10-21 13:40 G	5097655.84	5097656.07	5097656.34	0.0088	0.0017
Earth	9244-10-21 15:36 G	5097655.91	5097656.15	5097656.42	0.0088	0.0016 *
Earth	9245-10-24 04:19 G	5098023.45	5098023.68	5098023.94	0.0088	0.0029
Moon	9245-10-24 04:33 G	5098023.45	5098023.69	5098023.96	0.0088	0.0029 *
Earth	9246-10-26 16:48 G	5098390.99	5098391.20	5098391.45	0.0088	0.0044
Moon	9246-10-26 18:00 G	5098391.04	5098391.25	5098391.48	0.0088	0.0044 *

Moon	9247-10-29 04:04 G	5098758.47	5098758.67	5098758.89	0.0088	0.0056
Earth	9247-10-29 05:31 G	5098758.55	5098758.73	5098758.95	0.0088	0.0057 *
Earth	9248-10-30 17:45 G	5099126.12	5099126.24	5099126.43	0.0088	0.0072
Moon	9248-10-30 20:52 G	5099126.25	5099126.37	5099126.54	0.0088	0.0073 *
Moon	9249-11-02 03:50 G	5099493.59	5099493.66	5099493.75	0.0088	0.0084
Earth	9249-11-02 07:11 G	5099493.74	5099493.80	5099493.88	0.0088	0.0085 *
Mars	9263-11-26 12:28 G	5104630.98	5104631.02	5104631.13	0.0089	0.0086
Mars	9265-10-20 05:16 G	5105324.44	5105324.72	5105325.01	0.0089	0.0002
Mars	9267-09-13 18:43 G	5106018.21	5106018.28	5106018.39	0.0089	0.0084
Jupiter	9270-02-25 07:26 G	5106913.38	5106913.81	5106914.28	0.0089	0.0045
Venus	9283-10-21 15:07 G	5111900.05	5111900.13	5111900.27	0.0089	0.0078
Mercury	9283-12-07 14:52 G	5111947.08	5111947.12	5111947.19	0.0089	0.0082
Mercury	9284-03-04 16:48 G	5112035.13	5112035.20	5112035.29	0.0089	0.0075
Mercury	9284-05-31 18:43 G	5112123.19	5112123.28	5112123.38	0.0089	0.0067
Venus	9284-06-03 04:33 G	5112125.55	5112125.69	5112125.88	0.0089	0.0059
Mercury	9284-08-27 20:23 G	5112211.25	5112211.35	5112211.47	0.0089	0.0059
Mercury	9284-11-23 22:19 G	5112299.32	5112299.43	5112299.55	0.0089	0.0052
Venus	9285-01-14 18:28 G	5112351.07	5112351.27	5112351.47	0.0089	0.0039
Mercury	9285-02-20 00:00 G	5112387.38	5112387.50	5112387.64	0.0089	0.0044
Mercury	9285-05-19 01:55 G	5112475.45	5112475.58	5112475.72	0.0089	0.0036
Mercury	9285-08-15 03:50 G	5112563.52	5112563.66	5112563.79	0.0089	0.0029
Venus	9285-08-28 07:40 G	5112576.61	5112576.82	5112577.04	0.0089	0.0020
Mercury	9285-11-11 05:31 G	5112651.59	5112651.73	5112651.87	0.0089	0.0021
Mercury	9286-02-07 07:11 G	5112739.66	5112739.80	5112739.95	0.0089	0.0014
Venus	9286-04-10 21:07 G	5112802.16	5112802.38	5112802.60	0.0089	0.0000
Mercury	9286-05-06 08:52 G	5112827.73	5112827.87	5112828.02	0.0089	0.0007
Mercury	9286-08-02 10:48 G	5112915.80	5112915.95	5112916.09	0.0089	0.0002
Mercury	9286-10-29 12:28 G	5113003.87	5113004.02	5113004.16	0.0089	0.0009
Venus	9286-11-22 10:19 G	5113027.72	5113027.93	5113028.16	0.0089	0.0019
Mercury	9287-01-25 14:09 G	5113091.95	5113092.09	5113092.23	0.0089	0.0016



Mercury	9287-04-23 15:50 G	5113180.02	5113180.16	5113180.30	0.0089	0.0023
Venus	9287-07-05 23:31 G	5113253.30	5113253.48	5113253.69	0.0089	0.0039
Mercury	9287-07-20 17:31 G	5113268.10	5113268.23	5113268.37	0.0089	0.0031
Mercury	9287-10-16 19:11 G	5113356.17	5113356.30	5113356.43	0.0089	0.0038
Mercury	9288-01-12 20:52 G	5113444.25	5113444.37	5113444.50	0.0089	0.0046
Venus	9288-02-16 12:43 G	5113478.88	5113479.03	5113479.22	0.0089	0.0058
Mercury	9288-04-09 22:33 G	5113532.33	5113532.44	5113532.56	0.0089	0.0053
Mercury	9288-07-07 00:00 G	5113620.41	5113620.50	5113620.62	0.0089	0.0061
Venus	9288-09-29 02:09 G	5113704.49	5113704.59	5113704.71	0.0089	0.0077
Mercury	9288-10-03 01:40 G	5113708.49	5113708.57	5113708.68	0.0089	0.0068
Mercury	9288-12-30 03:21 G	5113796.58	5113796.64	5113796.73	0.0089	0.0075
Mercury	9289-03-28 05:02 G	5113884.67	5113884.71	5113884.78	0.0089	0.0082
Mercury	9289-06-24 06:57 G	5113972.78	5113972.79	5113972.80	0.0089	0.0089
Moon	9319-04-09 12:00 G	5124852.93	5124853.00	5124853.10	0.0089	0.0084
Earth	9319-04-09 13:26 G	5124852.98	5124853.06	5124853.17	0.0089	0.0083 *
Moon	9320-04-11 00:00 G	5125220.35	5125220.50	5125220.70	0.0089	0.0068
Earth	9320-04-11 00:43 G	5125220.38	5125220.53	5125220.70	0.0089	0.0069 *
Earth	9321-04-13 12:14 G	5125587.81	5125588.01	5125588.21	0.0089	0.0055
Moon	9321-04-13 13:11 G	5125587.88	5125588.05	5125588.26	0.0089	0.0056 *
Moon	9322-04-15 20:38 G	5125955.15	5125955.36	5125955.61	0.0089	0.0040
Earth	9322-04-15 23:16 G	5125955.25	5125955.47	5125955.70	0.0089	0.0041 *
Earth	9323-04-18 10:19 G	5126322.69	5126322.93	5126323.17	0.0089	0.0027
Moon	9323-04-18 13:26 G	5126322.83	5126323.06	5126323.31	0.0089	0.0028 *
Moon	9324-04-19 18:00 G	5126690.00	5126690.25	5126690.50	0.0089	0.0011
Earth	9324-04-19 21:21 G	5126690.14	5126690.39	5126690.65	0.0089	0.0013 *
Earth	9325-04-22 08:09 G	5127057.58	5127057.84	5127058.09	0.0089	0.0002
Moon	9325-04-22 11:45 G	5127057.73	5127057.99	5127058.25	0.0089	0.0002 *
Moon	9326-04-24 16:19 G	5127424.93	5127425.18	5127425.42	0.0089	0.0017
Earth	9326-04-24 18:57 G	5127425.04	5127425.29	5127425.54	0.0089	0.0016 *
Earth	9327-04-27 05:31 G	5127792.50	5127792.73	5127792.98	0.0089	0.0030

Moon	9327-04-27 07:26 G	5127792.57	5127792.81	5127793.07	0.0089	0.0029 *
Moon	9328-04-28 15:21 G	5128159.92	5128160.14	5128160.35	0.0089	0.0043
Earth	9328-04-28 16:19 G	5128159.96	5128160.18	5128160.41	0.0089	0.0043 *
Moon	9329-05-01 02:09 G	5128527.40	5128527.59	5128527.80	0.0089	0.0056
Earth	9329-05-01 02:52 G	5128527.44	5128527.62	5128527.82	0.0089	0.0057 *
Earth	9330-05-03 13:11 G	5128894.92	5128895.05	5128895.22	0.0089	0.0071
Moon	9330-05-03 14:38 G	5128894.99	5128895.11	5128895.28	0.0089	0.0072 *
Moon	9331-05-05 21:50 G	5129262.33	5129262.41	5129262.49	0.0089	0.0084
Earth	9331-05-05 23:31 G	5129262.44	5129262.48	5129262.59	0.0089	0.0085 *
Mars	9345-08-29 08:38 G	5134491.72	5134491.86	5134492.06	0.0088	0.0077
Mars	9347-07-26 16:19 G	5135187.85	5135188.18	5135188.51	0.0088	0.0024
Venus	9365-04-26 12:57 G	5141671.96	5141672.04	5141672.12	0.0088	0.0082
Mercury	9365-11-30 07:26 G	5141889.80	5141889.81	5141889.87	0.0088	0.0086
Venus	9365-12-08 01:26 G	5141897.42	5141897.56	5141897.72	0.0088	0.0063
Mercury	9366-02-26 10:33 G	5141977.86	5141977.94	5141978.01	0.0088	0.0078
Mercury	9366-05-25 12:57 G	5142065.94	5142066.04	5142066.14	0.0088	0.0069
Venus	9366-07-21 13:55 G	5142122.90	5142123.08	5142123.28	0.0088	0.0045
Mercury	9366-08-21 15:21 G	5142154.03	5142154.14	5142154.27	0.0088	0.0061
Mercury	9366-11-17 17:45 G	5142242.12	5142242.24	5142242.39	0.0088	0.0053
Mercury	9367-02-13 20:23 G	5142330.21	5142330.35	5142330.51	0.0088	0.0045
Venus	9367-03-04 02:23 G	5142348.41	5142348.60	5142348.82	0.0088	0.0027
Mercury	9367-05-12 23:16 G	5142418.31	5142418.47	5142418.62	0.0088	0.0036
Mercury	9367-08-09 01:40 G	5142506.41	5142506.57	5142506.74	0.0088	0.0028
Venus	9367-10-15 15:21 G	5142573.92	5142574.14	5142574.36	0.0088	0.0008
Mercury	9367-11-05 04:19 G	5142594.52	5142594.68	5142594.85	0.0088	0.0020
Mercury	9368-02-01 06:57 G	5142682.62	5142682.79	5142682.97	0.0088	0.0011
Mercury	9368-04-29 09:36 G	5142770.73	5142770.90	5142771.08	0.0088	0.0003
Venus	9368-05-28 04:04 G	5142799.45	5142799.67	5142799.89	0.0088	0.0010
Mercury	9368-07-26 12:14 G	5142858.84	5142859.01	5142859.19	0.0088	0.0006
Mercury	9368-10-22 14:52 G	5142946.95	5142947.12	5142947.30	0.0088	0.0014

Venus	9369-01-08 16:33 G	5143024.99	5143025.19	5143025.41	0.0088	0.0028
Mercury	9369-01-18 17:31 G	5143035.07	5143035.23	5143035.40	0.0088	0.0023
Mercury	9369-04-16 20:09 G	5143123.19	5143123.34	5143123.51	0.0088	0.0031
Mercury	9369-07-13 22:48 G	5143211.31	5143211.45	5143211.62	0.0088	0.0040
Venus	9369-08-22 04:48 G	5143250.54	5143250.70	5143250.91	0.0088	0.0047
Mercury	9369-10-10 01:40 G	5143299.43	5143299.57	5143299.72	0.0088	0.0048
Mercury	9370-01-06 04:19 G	5143387.55	5143387.68	5143387.82	0.0088	0.0057
Mercury	9370-04-04 06:57 G	5143475.69	5143475.79	5143475.92	0.0088	0.0066
Venus	9370-04-04 17:31 G	5143476.10	5143476.23	5143476.40	0.0088	0.0065
Mercury	9370-07-01 09:50 G	5143563.82	5143563.91	5143564.01	0.0088	0.0074
Mercury	9370-09-27 12:28 G	5143651.98	5143652.02	5143652.08	0.0088	0.0083
Venus	9370-11-16 06:14 G	5143701.71	5143701.76	5143701.85	0.0088	0.0083
Earth	9401-10-07 11:31 G	5154983.98	5154983.98	5154983.99	0.0088	0.0088
Earth	9402-10-09 23:02 G	5155351.35	5155351.46	5155351.63	0.0088	0.0075
Moon	9402-10-10 02:38 G	5155351.46	5155351.61	5155351.77	0.0088	0.0070 *
Moon	9403-10-12 07:26 G	5155718.66	5155718.81	5155719.01	0.0088	0.0066
Earth	9403-10-12 11:16 G	5155718.81	5155718.97	5155719.18	0.0088	0.0062 *
Earth	9404-10-14 00:00 G	5156086.28	5156086.50	5156086.72	0.0088	0.0048
Moon	9404-10-14 03:07 G	5156086.41	5156086.63	5156086.87	0.0088	0.0043 *
Moon	9405-10-16 09:07 G	5156453.66	5156453.88	5156454.12	0.0088	0.0038
Earth	9405-10-16 12:00 G	5156453.78	5156454.00	5156454.26	0.0088	0.0034 *
Earth	9406-10-19 00:14 G	5156821.27	5156821.51	5156821.78	0.0088	0.0021
Moon	9406-10-19 02:52 G	5156821.36	5156821.62	5156821.89	0.0088	0.0015 *
Moon	9407-10-21 12:14 G	5157188.77	5157189.01	5157189.27	0.0088	0.0010
Earth	9407-10-21 12:57 G	5157188.79	5157189.04	5157189.31	0.0088	0.0006 *
Moon	9408-10-23 01:26 G	5157556.30	5157556.56	5157556.84	0.0088	0.0012
Earth	9408-10-23 01:26 G	5157556.31	5157556.56	5157556.83	0.0088	0.0008 *
Earth	9409-10-25 13:55 G	5157923.84	5157924.08	5157924.35	0.0088	0.0022
Moon	9409-10-25 15:21 G	5157923.90	5157924.14	5157924.40	0.0088	0.0018 *
Moon	9410-10-27 23:45 G	5158291.28	5158291.49	5158291.75	0.0088	0.0041

Earth	9410-10-28 02:52 G	5158291.39	5158291.62	5158291.87	0.0088	0.0036 *
Earth	9411-10-30 15:21 G	5158658.94	5158659.14	5158659.37	0.0088	0.0050
Moon	9411-10-30 18:14 G	5158659.05	5158659.26	5158659.49	0.0088	0.0046 *
Moon	9412-11-01 00:14 G	5159026.37	5159026.51	5159026.70	0.0088	0.0069
Earth	9412-11-01 04:04 G	5159026.51	5159026.67	5159026.87	0.0088	0.0064 *
Earth	9413-11-03 16:33 G	5159394.10	5159394.19	5159394.34	0.0088	0.0078
Moon	9413-11-03 20:23 G	5159394.22	5159394.35	5159394.51	0.0088	0.0073 *
Mars	9429-06-06 19:55 G	5165088.08	5165088.33	5165088.61	0.0089	0.0037
Mars	9431-05-01 11:31 G	5165781.75	5165781.98	5165782.24	0.0089	0.0048
Jupiter	9436-05-01 13:26 G	5167608.59	5167609.06	5167609.59	0.0089	0.0026
Venus	9448-01-25 02:38 G	5171894.56	5171894.61	5171894.69	0.0089	0.0085
Mercury	9448-06-08 13:11 G	5172030.01	5172030.05	5172030.09	0.0089	0.0086
Mercury	9448-09-04 14:38 G	5172118.05	5172118.11	5172118.19	0.0089	0.0078
Venus	9448-09-06 15:50 G	5172120.03	5172120.16	5172120.33	0.0089	0.0066
Mercury	9448-12-01 16:33 G	5172206.11	5172206.19	5172206.29	0.0089	0.0071
Mercury	9449-02-27 18:43 G	5172294.17	5172294.28	5172294.38	0.0089	0.0063
Venus	9449-04-20 05:16 G	5172345.55	5172345.72	5172345.93	0.0089	0.0047
Mercury	9449-05-26 20:09 G	5172382.24	5172382.34	5172382.47	0.0089	0.0056
Mercury	9449-08-22 22:04 G	5172470.30	5172470.42	5172470.55	0.0089	0.0048
Mercury	9449-11-18 23:45 G	5172558.37	5172558.49	5172558.63	0.0089	0.0040
Venus	9449-12-01 19:11 G	5172571.09	5172571.30	5172571.51	0.0089	0.0027
Mercury	9450-02-15 01:40 G	5172646.44	5172646.57	5172646.71	0.0089	0.0032
Mercury	9450-05-14 03:36 G	5172734.51	5172734.65	5172734.79	0.0089	0.0025
Venus	9450-07-15 08:38 G	5172796.64	5172796.86	5172797.08	0.0089	0.0008
Mercury	9450-08-10 05:16 G	5172822.58	5172822.72	5172822.87	0.0089	0.0017
Mercury	9450-11-06 07:11 G	5172910.65	5172910.80	5172910.94	0.0089	0.0010
Mercury	9451-02-02 08:52 G	5172998.72	5172998.87	5172999.02	0.0089	0.0002
Venus	9451-02-25 21:50 G	5173022.20	5173022.41	5173022.63	0.0089	0.0012
Mercury	9451-05-01 10:33 G	5173086.80	5173086.94	5173087.09	0.0089	0.0006
Mercury	9451-07-28 12:14 G	5173174.87	5173175.01	5173175.16	0.0089	0.0013

Venus	9451-10-09 11:02 G	5173247.77	5173247.96	5173248.18	0.0089	0.0032
Mercury	9451-10-24 13:55 G	5173262.95	5173263.08	5173263.23	0.0089	0.0021
Mercury	9452-01-20 15:50 G	5173351.02	5173351.16	5173351.30	0.0089	0.0028
Mercury	9452-04-17 17:16 G	5173439.10	5173439.22	5173439.36	0.0089	0.0035
Venus	9452-05-22 00:28 G	5173473.35	5173473.52	5173473.71	0.0089	0.0051
Mercury	9452-07-14 18:57 G	5173527.18	5173527.29	5173527.43	0.0089	0.0043
Mercury	9452-10-10 20:52 G	5173615.25	5173615.37	5173615.49	0.0089	0.0050
Venus	9453-01-02 13:55 G	5173698.95	5173699.08	5173699.22	0.0089	0.0070
Mercury	9453-01-06 22:33 G	5173703.33	5173703.44	5173703.55	0.0089	0.0057
Mercury	9453-04-05 00:00 G	5173791.41	5173791.50	5173791.61	0.0089	0.0065
Mercury	9453-07-02 01:40 G	5173879.50	5173879.57	5173879.67	0.0089	0.0072
Venus	9453-08-16 03:21 G	5173924.62	5173924.64	5173924.66	0.0089	0.0089
Mercury	9453-09-28 03:36 G	5173967.59	5173967.65	5173967.72	0.0089	0.0079
Mercury	9453-12-25 05:16 G	5174055.68	5174055.72	5174055.76	0.0089	0.0086
Moon	9483-04-10 00:14 G	5184753.44	5184753.51	5184753.62	0.0089	0.0084
Earth	9483-04-10 00:14 G	5184753.50	5184753.51	5184753.58	0.0089	0.0089 *
Earth	9484-04-11 11:45 G	5185120.87	5185120.99	5185121.15	0.0089	0.0074
Moon	9484-04-11 13:55 G	5185120.97	5185121.08	5185121.20	0.0089	0.0079 *
Moon	9485-04-13 20:09 G	5185488.15	5185488.34	5185488.55	0.0089	0.0057
Earth	9485-04-13 23:02 G	5185488.29	5185488.46	5185488.66	0.0089	0.0061 *
Earth	9486-04-16 10:19 G	5185855.72	5185855.93	5185856.16	0.0089	0.0047
Moon	9486-04-16 13:11 G	5185855.87	5185856.05	5185856.28	0.0089	0.0052 *
Moon	9487-04-18 17:45 G	5186223.01	5186223.24	5186223.50	0.0089	0.0029
Earth	9487-04-18 21:21 G	5186223.17	5186223.39	5186223.65	0.0089	0.0033 *
Earth	9488-04-20 08:38 G	5186590.62	5186590.86	5186591.12	0.0089	0.0019
Moon	9488-04-20 11:45 G	5186590.75	5186590.99	5186591.25	0.0089	0.0023 *
Moon	9489-04-22 17:16 G	5186957.97	5186958.22	5186958.47	0.0089	0.0001
Earth	9489-04-22 19:55 G	5186958.08	5186958.33	5186958.59	0.0089	0.0005 *
Earth	9490-04-25 06:43 G	5187325.53	5187325.78	5187326.04	0.0089	0.0009
Moon	9490-04-25 08:23 G	5187325.59	5187325.85	5187326.12	0.0089	0.0004 *

Earth	9491-04-27 17:16 G	5187692.99	5187693.22	5187693.48	0.0089	0.0023
Moon	9491-04-27 17:16 G	5187693.00	5187693.22	5187693.47	0.0089	0.0027 *
Moon	9492-04-29 03:36 G	5188060.42	5188060.65	5188060.91	0.0089	0.0032
Earth	9492-04-29 04:19 G	5188060.46	5188060.68	5188060.92	0.0089	0.0037 *
Earth	9493-05-01 14:38 G	5188427.92	5188428.11	5188428.34	0.0089	0.0050
Moon	9493-05-01 16:33 G	5188428.02	5188428.19	5188428.41	0.0089	0.0055 *
Moon	9494-05-03 22:33 G	5188795.26	5188795.44	5188795.64	0.0089	0.0059
Earth	9494-05-04 01:11 G	5188795.40	5188795.55	5188795.75	0.0089	0.0064 *
Earth	9495-05-06 12:00 G	5189162.89	5189163.00	5189163.14	0.0089	0.0077
Moon	9495-05-06 15:07 G	5189163.06	5189163.13	5189163.25	0.0089	0.0082 *
Moon	9496-05-07 18:43 G	5189530.24	5189530.28	5189530.37	0.0089	0.0086
Mars	9511-03-11 06:00 G	5194949.42	5194949.75	5194950.09	0.0088	0.0020
Mars	9513-02-04 13:11 G	5195645.92	5195646.05	5195646.20	0.0088	0.0081
Venus	9530-03-13 13:11 G	5201891.93	5201892.05	5201892.20	0.0088	0.0070
Mercury	9530-08-29 07:11 G	5202060.75	5202060.80	5202060.87	0.0088	0.0081
Venus	9530-10-25 01:55 G	5202117.42	5202117.58	5202117.77	0.0088	0.0052
Mercury	9530-11-25 09:36 G	5202148.82	5202148.90	5202149.01	0.0088	0.0073
Mercury	9531-02-21 12:00 G	5202236.91	5202237.00	5202237.14	0.0088	0.0065
Mercury	9531-05-20 15:07 G	5202325.00	5202325.13	5202325.26	0.0088	0.0056
Venus	9531-06-07 14:38 G	5202342.92	5202343.11	5202343.33	0.0088	0.0034
Mercury	9531-08-16 17:31 G	5202413.09	5202413.23	5202413.38	0.0088	0.0048
Mercury	9531-11-12 19:55 G	5202501.19	5202501.33	5202501.49	0.0088	0.0040
Venus	9532-01-19 03:36 G	5202568.43	5202568.65	5202568.87	0.0088	0.0015
Mercury	9532-02-08 22:33 G	5202589.29	5202589.44	5202589.61	0.0088	0.0032
Mercury	9532-05-07 01:11 G	5202677.39	5202677.55	5202677.72	0.0088	0.0023
Mercury	9532-08-03 03:50 G	5202765.49	5202765.66	5202765.83	0.0088	0.0015
Venus	9532-08-31 16:04 G	5202793.95	5202794.17	5202794.39	0.0088	0.0003
Mercury	9532-10-30 06:28 G	5202853.60	5202853.77	5202853.94	0.0088	0.0007
Mercury	9533-01-26 09:07 G	5202941.71	5202941.88	5202942.05	0.0088	0.0002
Venus	9533-04-14 04:33 G	5203019.49	5203019.69	5203019.91	0.0088	0.0022

Mercury	9533-04-24 11:45 G	5203029.82	5203029.99	5203030.16	0.0088	0.0010
Mercury	9533-07-21 14:23 G	5203117.93	5203118.10	5203118.27	0.0088	0.0019
Mercury	9533-10-17 17:02 G	5203206.05	5203206.21	5203206.38	0.0088	0.0027
Venus	9533-11-25 17:02 G	5203245.03	5203245.21	5203245.42	0.0088	0.0040
Mercury	9534-01-13 19:40 G	5203294.17	5203294.32	5203294.48	0.0088	0.0036
Mercury	9534-04-11 22:33 G	5203382.29	5203382.44	5203382.59	0.0088	0.0044
Mercury	9534-07-09 00:57 G	5203470.41	5203470.54	5203470.69	0.0088	0.0053
Venus	9534-07-09 05:45 G	5203470.59	5203470.74	5203470.92	0.0088	0.0058 *
Mercury	9534-10-05 03:36 G	5203558.54	5203558.65	5203558.78	0.0088	0.0062
Mercury	9535-01-01 06:28 G	5203646.67	5203646.77	5203646.88	0.0088	0.0070
Venus	9535-02-19 18:00 G	5203696.17	5203696.25	5203696.38	0.0088	0.0077
Mercury	9535-03-30 09:07 G	5203734.81	5203734.88	5203734.96	0.0088	0.0079
Mercury	9535-06-26 11:45 G	5203822.99	5203822.99	5203823.01	0.0088	0.0088
Moon	9566-10-10 06:00 G	5215251.66	5215251.75	5215251.89	0.0088	0.0078
Earth	9566-10-10 10:04 G	5215251.81	5215251.92	5215252.03	0.0088	0.0080 *
Earth	9567-10-12 21:50 G	5215619.26	5215619.41	5215619.60	0.0088	0.0067
Moon	9567-10-13 01:11 G	5215619.41	5215619.55	5215619.75	0.0088	0.0068 *
Moon	9568-10-14 07:55 G	5215986.63	5215986.83	5215987.05	0.0088	0.0051
Earth	9568-10-14 10:04 G	5215986.73	5215986.92	5215987.15	0.0088	0.0053 *
Earth	9569-10-16 22:33 G	5216354.22	5216354.44	5216354.68	0.0088	0.0040
Moon	9569-10-17 00:00 G	5216354.28	5216354.50	5216354.76	0.0088	0.0041 *
Moon	9570-10-19 10:19 G	5216721.69	5216721.93	5216722.17	0.0088	0.0025
Earth	9570-10-19 10:48 G	5216721.71	5216721.95	5216722.21	0.0088	0.0026 *
Moon	9571-10-21 22:04 G	5217089.16	5217089.42	5217089.69	0.0088	0.0014
Earth	9571-10-21 23:16 G	5217089.21	5217089.47	5217089.73	0.0088	0.0012 *
Earth	9572-10-23 11:45 G	5217456.73	5217456.99	5217457.25	0.0088	0.0001
Moon	9572-10-23 13:26 G	5217456.81	5217457.06	5217457.32	0.0088	0.0002 *
Moon	9573-10-25 21:21 G	5217824.13	5217824.39	5217824.66	0.0088	0.0015
Earth	9573-10-26 00:00 G	5217824.25	5217824.50	5217824.77	0.0088	0.0015 *
Earth	9574-10-28 12:28 G	5218191.78	5218192.02	5218192.27	0.0088	0.0029

Moon	9574-10-28 16:04 G	5218191.93	5218192.17	5218192.42	0.0088	0.0030 *
Moon	9575-10-30 21:21 G	5218559.18	5218559.39	5218559.64	0.0088	0.0043
Earth	9575-10-31 00:57 G	5218559.33	5218559.54	5218559.79	0.0088	0.0043 *
Earth	9576-11-01 13:26 G	5218926.88	5218927.06	5218927.29	0.0088	0.0057
Moon	9576-11-01 17:16 G	5218927.03	5218927.22	5218927.44	0.0088	0.0056 *
Moon	9577-11-03 23:45 G	5219294.36	5219294.49	5219294.67	0.0088	0.0070
Earth	9577-11-04 02:23 G	5219294.46	5219294.60	5219294.78	0.0088	0.0070 *
Earth	9578-11-06 14:52 G	5219662.06	5219662.12	5219662.24	0.0088	0.0084
Moon	9578-11-06 16:48 G	5219662.14	5219662.20	5219662.33	0.0088	0.0083 *
Mars	9593-01-21 11:16 G	5224851.81	5224851.97	5224852.13	0.0089	0.0073
Mars	9594-12-16 02:38 G	5225545.33	5225545.61	5225545.91	0.0089	0.0012
Venus	9612-12-10 03:36 G	5232114.53	5232114.65	5232114.78	0.0089	0.0073
Mercury	9613-03-06 12:28 G	5232200.98	5232201.02	5232201.10	0.0089	0.0083
Mercury	9613-06-02 14:23 G	5232289.04	5232289.10	5232289.20	0.0089	0.0075
Venus	9613-07-23 16:48 G	5232340.03	5232340.20	5232340.38	0.0089	0.0054
Mercury	9613-08-29 16:33 G	5232377.10	5232377.19	5232377.29	0.0089	0.0067
Mercury	9613-11-25 18:00 G	5232465.16	5232465.25	5232465.38	0.0089	0.0060
Mercury	9614-02-21 19:55 G	5232553.22	5232553.33	5232553.46	0.0089	0.0052
Venus	9614-03-06 06:00 G	5232565.56	5232565.75	5232565.97	0.0089	0.0035
Mercury	9614-05-20 21:50 G	5232641.29	5232641.41	5232641.55	0.0089	0.0044
Mercury	9614-08-16 23:31 G	5232729.36	5232729.48	5232729.63	0.0089	0.0037
Venus	9614-10-17 19:26 G	5232791.11	5232791.31	5232791.54	0.0089	0.0016
Mercury	9614-11-13 01:26 G	5232817.43	5232817.56	5232817.71	0.0089	0.0029
Mercury	9615-02-09 03:21 G	5232905.50	5232905.64	5232905.78	0.0089	0.0021
Mercury	9615-05-08 05:02 G	5232993.57	5232993.71	5232993.86	0.0089	0.0014
Venus	9615-05-31 09:07 G	5233016.66	5233016.88	5233017.10	0.0089	0.0004
Mercury	9615-08-04 06:57 G	5233081.64	5233081.79	5233081.93	0.0089	0.0006
Mercury	9615-10-31 08:38 G	5233169.72	5233169.86	5233170.01	0.0089	0.0002
Venus	9616-01-11 22:33 G	5233242.23	5233242.44	5233242.65	0.0089	0.0024
Mercury	9616-01-27 10:19 G	5233257.79	5233257.93	5233258.08	0.0089	0.0010



Mercury	9616-04-24 12:14 G	5233345.86	5233346.01	5233346.15	0.0089	0.0017
Mercury	9616-07-21 13:40 G	5233433.94	5233434.07	5233434.22	0.0089	0.0025
Venus	9616-08-24 11:31 G	5233467.80	5233467.98	5233468.19	0.0089	0.0043
Mercury	9616-10-17 15:36 G	5233522.02	5233522.15	5233522.29	0.0089	0.0031
Mercury	9617-01-13 17:16 G	5233610.09	5233610.22	5233610.35	0.0089	0.0039
Venus	9617-04-07 00:43 G	5233693.39	5233693.53	5233693.71	0.0089	0.0063
Mercury	9617-04-11 18:57 G	5233698.17	5233698.29	5233698.42	0.0089	0.0046
Mercury	9617-07-08 20:38 G	5233786.25	5233786.36	5233786.48	0.0089	0.0054
Mercury	9617-10-04 22:19 G	5233874.33	5233874.43	5233874.54	0.0089	0.0061
Venus	9617-11-18 14:23 G	5233919.02	5233919.10	5233919.20	0.0089	0.0082
Mercury	9617-12-31 23:45 G	5233962.42	5233962.49	5233962.60	0.0089	0.0069
Mercury	9618-03-30 01:40 G	5234050.50	5234050.57	5234050.65	0.0089	0.0075
Mercury	9618-06-26 03:21 G	5234138.59	5234138.64	5234138.70	0.0089	0.0083
Moon	9648-04-11 19:55 G	5245021.24	5245021.33	5245021.45	0.0089	0.0082
Earth	9648-04-11 23:02 G	5245021.36	5245021.46	5245021.59	0.0089	0.0080 *
Earth	9649-04-14 10:04 G	5245388.77	5245388.92	5245389.11	0.0089	0.0066
Moon	9649-04-14 13:55 G	5245388.91	5245389.08	5245389.26	0.0089	0.0064 *
Moon	9650-04-16 18:00 G	5245756.06	5245756.25	5245756.46	0.0089	0.0054
Earth	9650-04-16 21:21 G	5245756.20	5245756.39	5245756.61	0.0089	0.0053 *
Earth	9651-04-19 08:09 G	5246123.63	5246123.84	5246124.09	0.0089	0.0040
Moon	9651-04-19 11:45 G	5246123.77	5246123.99	5246124.24	0.0089	0.0038 *
Moon	9652-04-20 17:45 G	5246491.01	5246491.24	5246491.48	0.0089	0.0028
Earth	9652-04-20 19:40 G	5246491.08	5246491.32	5246491.57	0.0089	0.0025 *
Earth	9653-04-23 06:43 G	5246858.53	5246858.78	5246859.04	0.0089	0.0012
Moon	9653-04-23 08:09 G	5246858.58	5246858.84	5246859.10	0.0089	0.0010 *
Earth	9654-04-25 18:00 G	5247225.99	5247226.25	5247226.50	0.0089	0.0002
Moon	9654-04-25 18:00 G	5247226.00	5247226.25	5247226.49	0.0089	0.0002 *
Moon	9655-04-28 02:52 G	5247593.38	5247593.62	5247593.89	0.0089	0.0018
Earth	9655-04-28 04:48 G	5247593.46	5247593.70	5247593.96	0.0089	0.0016 *
Earth	9656-04-29 15:36 G	5247960.91	5247961.15	5247961.40	0.0089	0.0029

Moon	9656-04-29 17:45 G	5247961.01	5247961.24	5247961.48	0.0089	0.0028	*
Moon	9657-05-01 23:02 G	5248328.25	5248328.46	5248328.70	0.0089	0.0044	
Earth	9657-05-02 02:09 G	5248328.39	5248328.59	5248328.83	0.0089	0.0043	*
Earth	9658-05-04 12:57 G	5248695.85	5248696.04	5248696.25	0.0089	0.0056	
Moon	9658-05-04 16:48 G	5248696.00	5248696.20	5248696.40	0.0089	0.0054	*
Moon	9659-05-06 20:23 G	5249063.21	5249063.35	5249063.51	0.0089	0.0070	
Earth	9659-05-06 23:45 G	5249063.34	5249063.49	5249063.65	0.0089	0.0069	*
Earth	9660-05-08 09:50 G	5249430.85	5249430.91	5249431.03	0.0089	0.0083	
Moon	9660-05-08 12:57 G	5249430.97	5249431.04	5249431.17	0.0089	0.0082	*
Mars	9674-10-22 20:23 G	5254711.15	5254711.35	5254711.63	0.0089	0.0064	
Mars	9676-09-18 03:07 G	5255407.34	5255407.63	5255407.96	0.0088	0.0038	
Venus	9694-06-15 00:57 G	5261886.45	5261886.54	5261886.65	0.0088	0.0077	
Venus	9695-01-26 13:26 G	5262111.91	5262112.06	5262112.24	0.0088	0.0059	
Mercury	9695-02-27 03:50 G	5262143.63	5262143.66	5262143.72	0.0088	0.0085	
Mercury	9695-05-26 06:14 G	5262231.70	5262231.76	5262231.86	0.0088	0.0077	
Mercury	9695-08-22 08:52 G	5262319.78	5262319.87	5262319.99	0.0088	0.0069	
Venus	9695-09-09 01:55 G	5262337.41	5262337.58	5262337.80	0.0088	0.0041	
Mercury	9695-11-18 11:45 G	5262407.87	5262407.99	5262408.11	0.0088	0.0060	
Mercury	9696-02-14 14:09 G	5262495.96	5262496.09	5262496.23	0.0088	0.0052	
Venus	9696-04-21 15:07 G	5262562.92	5262563.13	5262563.34	0.0088	0.0022	
Mercury	9696-05-12 16:33 G	5262584.06	5262584.19	5262584.35	0.0088	0.0044	
Mercury	9696-08-08 19:11 G	5262672.16	5262672.30	5262672.47	0.0088	0.0036	
Mercury	9696-11-04 22:04 G	5262760.26	5262760.42	5262760.58	0.0088	0.0027	
Venus	9696-12-03 03:50 G	5262788.44	5262788.66	5262788.88	0.0088	0.0004	
Mercury	9697-02-01 00:28 G	5262848.36	5262848.52	5262848.69	0.0088	0.0019	
Mercury	9697-04-30 03:07 G	5262936.46	5262936.63	5262936.80	0.0088	0.0011	
Venus	9697-07-16 16:04 G	5263013.97	5263014.17	5263014.40	0.0088	0.0015	
Mercury	9697-07-27 05:45 G	5263024.57	5263024.74	5263024.92	0.0088	0.0003	
Mercury	9697-10-23 08:23 G	5263112.68	5263112.85	5263113.02	0.0088	0.0006	
Mercury	9698-01-19 11:02 G	5263200.79	5263200.96	5263201.13	0.0088	0.0015	

Venus	9698-02-27 04:48 G	5263239.50	5263239.70	5263239.91	0.0088	0.0033
Mercury	9698-04-17 13:40 G	5263288.90	5263289.07	5263289.24	0.0088	0.0023
Mercury	9698-07-14 16:04 G	5263377.02	5263377.17	5263377.34	0.0088	0.0032
Venus	9698-10-10 17:31 G	5263465.06	5263465.23	5263465.41	0.0088	0.0051
Mercury	9698-10-10 18:57 G	5263465.14	5263465.29	5263465.45	0.0088	0.0040 *
Mercury	9699-01-06 21:21 G	5263553.26	5263553.39	5263553.55	0.0088	0.0049
Mercury	9699-04-05 00:14 G	5263641.38	5263641.51	5263641.65	0.0088	0.0057
Venus	9699-05-24 05:45 G	5263690.63	5263690.74	5263690.90	0.0088	0.0070
Mercury	9699-07-02 02:38 G	5263729.51	5263729.61	5263729.74	0.0088	0.0066
Mercury	9699-09-28 05:16 G	5263817.65	5263817.72	5263817.83	0.0088	0.0075
Mercury	9699-12-25 08:23 G	5263905.80	5263905.85	5263905.91	0.0088	0.0083
Venus	9700-01-04 18:57 G	5263916.29	5263916.29	5263916.29	0.0088	0.0088
Earth	9730-10-10 19:26 G	5275152.25	5275152.31	5275152.38	0.0088	0.0085
Moon	9731-10-13 05:16 G	5275519.57	5275519.72	5275519.89	0.0088	0.0068
Earth	9731-10-13 07:11 G	5275519.68	5275519.80	5275519.98	0.0088	0.0072 *
Earth	9732-10-14 19:55 G	5275887.14	5275887.33	5275887.53	0.0088	0.0058
Moon	9732-10-14 20:52 G	5275887.19	5275887.37	5275887.57	0.0088	0.0062 *
Earth	9733-10-17 08:09 G	5276254.63	5276254.84	5276255.07	0.0088	0.0045
Moon	9733-10-17 08:38 G	5276254.64	5276254.86	5276255.09	0.0088	0.0042 *
Moon	9734-10-19 18:57 G	5276622.06	5276622.29	5276622.56	0.0088	0.0037
Earth	9734-10-19 20:09 G	5276622.11	5276622.34	5276622.60	0.0088	0.0032 *
Earth	9735-10-22 08:52 G	5276989.62	5276989.87	5276990.13	0.0088	0.0019
Moon	9735-10-22 11:16 G	5276989.73	5276989.97	5276990.23	0.0088	0.0015 *
Moon	9736-10-23 18:00 G	5277356.99	5277357.25	5277357.52	0.0088	0.0009
Earth	9736-10-23 21:21 G	5277357.13	5277357.39	5277357.65	0.0088	0.0005 *
Earth	9737-10-26 09:36 G	5277724.64	5277724.90	5277725.16	0.0088	0.0008
Moon	9737-10-26 12:57 G	5277724.79	5277725.04	5277725.30	0.0088	0.0013 *
Moon	9738-10-28 18:14 G	5278092.02	5278092.26	5278092.52	0.0088	0.0018
Earth	9738-10-28 21:50 G	5278092.17	5278092.41	5278092.68	0.0088	0.0022 *
Earth	9739-10-31 10:19 G	5278459.70	5278459.93	5278460.18	0.0088	0.0035

Moon	9739-10-31 13:26 G	5278459.83	5278460.06	5278460.30	0.0088	0.0040 *
Moon	9740-11-01 20:23 G	5278827.15	5278827.35	5278827.59	0.0088	0.0045
Earth	9740-11-01 23:16 G	5278827.26	5278827.47	5278827.69	0.0088	0.0049 *
Earth	9741-11-04 11:31 G	5279194.82	5279194.98	5279195.19	0.0088	0.0062
Moon	9741-11-04 12:43 G	5279194.87	5279195.03	5279195.22	0.0088	0.0067 *
Moon	9742-11-07 00:28 G	5279562.39	5279562.52	5279562.68	0.0088	0.0072
Earth	9742-11-07 00:14 G	5279562.40	5279562.51	5279562.67	0.0088	0.0076 *
Mars	9758-08-01 18:28 G	5285309.00	5285309.27	5285309.56	0.0089	0.0025
Mars	9760-06-25 08:38 G	5286002.67	5286002.86	5286003.10	0.0089	0.0060
Venus	9777-03-14 14:23 G	5292109.02	5292109.10	5292109.21	0.0089	0.0081
Mercury	9777-09-05 10:48 G	5292283.91	5292283.95	5292283.99	0.0089	0.0086
Venus	9777-10-26 03:50 G	5292334.51	5292334.66	5292334.83	0.0089	0.0061
Mercury	9777-12-02 12:28 G	5292371.96	5292372.02	5292372.10	0.0089	0.0078
Mercury	9778-02-28 14:23 G	5292460.02	5292460.10	5292460.19	0.0089	0.0070
Mercury	9778-05-27 16:19 G	5292548.08	5292548.18	5292548.29	0.0089	0.0063
Venus	9778-06-08 17:31 G	5292560.04	5292560.23	5292560.42	0.0089	0.0042
Mercury	9778-08-23 18:00 G	5292636.14	5292636.25	5292636.37	0.0089	0.0055
Mercury	9778-11-19 19:55 G	5292724.21	5292724.33	5292724.46	0.0089	0.0047
Venus	9779-01-20 06:43 G	5292785.57	5292785.78	5292786.00	0.0089	0.0023
Mercury	9779-02-15 21:50 G	5292812.28	5292812.41	5292812.54	0.0089	0.0040
Mercury	9779-05-14 23:31 G	5292900.35	5292900.48	5292900.62	0.0089	0.0032
Mercury	9779-08-11 01:26 G	5292988.42	5292988.56	5292988.70	0.0089	0.0025
Venus	9779-09-02 20:09 G	5293011.12	5293011.34	5293011.56	0.0089	0.0003
Mercury	9779-11-07 03:07 G	5293076.49	5293076.63	5293076.78	0.0089	0.0017
Mercury	9780-02-03 05:02 G	5293164.56	5293164.71	5293164.85	0.0089	0.0010
Venus	9780-04-15 09:21 G	5293236.68	5293236.89	5293237.11	0.0089	0.0016
Mercury	9780-05-01 06:43 G	5293252.63	5293252.78	5293252.93	0.0089	0.0002
Mercury	9780-07-28 08:23 G	5293340.71	5293340.85	5293341.00	0.0089	0.0006
Mercury	9780-10-24 10:04 G	5293428.78	5293428.92	5293429.07	0.0089	0.0013
Venus	9780-11-26 22:48 G	5293462.26	5293462.45	5293462.66	0.0089	0.0036

Mercury	9781-01-20 12:00 G	5293516.86	5293517.00	5293517.14	0.0089	0.0020
Mercury	9781-04-18 13:40 G	5293604.93	5293605.07	5293605.21	0.0089	0.0028
Venus	9781-07-10 12:00 G	5293687.84	5293688.00	5293688.19	0.0089	0.0055
Mercury	9781-07-15 15:21 G	5293693.01	5293693.14	5293693.28	0.0089	0.0035
Mercury	9781-10-11 17:02 G	5293781.09	5293781.21	5293781.34	0.0089	0.0043
Mercury	9782-01-07 18:43 G	5293869.17	5293869.28	5293869.41	0.0089	0.0050
Venus	9782-02-21 01:11 G	5293913.45	5293913.55	5293913.69	0.0089	0.0075
Mercury	9782-04-05 20:23 G	5293957.25	5293957.35	5293957.47	0.0089	0.0057
Mercury	9782-07-02 22:04 G	5294045.33	5294045.42	5294045.53	0.0089	0.0065
Mercury	9782-09-29 00:00 G	5294133.42	5294133.50	5294133.58	0.0089	0.0072
Mercury	9782-12-26 01:26 G	5294221.51	5294221.56	5294221.63	0.0089	0.0079
Mercury	9783-03-24 03:07 G	5294309.61	5294309.63	5294309.68	0.0089	0.0086
Earth	9812-04-13 10:04 G	5304921.85	5304921.92	5304922.01	0.0089	0.0085
Moon	9812-04-13 13:26 G	5304921.97	5304922.06	5304922.19	0.0089	0.0081 *
Moon	9813-04-15 17:31 G	5305289.12	5305289.23	5305289.39	0.0089	0.0076
Earth	9813-04-15 21:07 G	5305289.24	5305289.38	5305289.55	0.0089	0.0071 *
Earth	9814-04-18 08:09 G	5305656.67	5305656.84	5305657.05	0.0089	0.0058
Moon	9814-04-18 10:48 G	5305656.76	5305656.95	5305657.18	0.0089	0.0055 *
Moon	9815-04-20 17:16 G	5306024.03	5306024.22	5306024.45	0.0089	0.0049
Earth	9815-04-20 19:11 G	5306024.11	5306024.30	5306024.55	0.0089	0.0046 *
Earth	9816-04-22 06:28 G	5306391.54	5306391.77	5306392.02	0.0089	0.0032
Moon	9816-04-22 06:57 G	5306391.55	5306391.79	5306392.05	0.0089	0.0028 *
Earth	9817-04-24 17:31 G	5306758.99	5306759.23	5306759.49	0.0089	0.0018
Moon	9817-04-24 18:28 G	5306759.03	5306759.27	5306759.51	0.0089	0.0021 *
Moon	9818-04-27 03:21 G	5307126.37	5307126.64	5307126.90	0.0089	0.0001
Earth	9818-04-27 04:48 G	5307126.45	5307126.70	5307126.96	0.0089	0.0005 *
Earth	9819-04-29 15:50 G	5307493.91	5307494.16	5307494.41	0.0089	0.0009
Moon	9819-04-29 18:43 G	5307494.03	5307494.28	5307494.53	0.0089	0.0005 *
Moon	9820-04-30 23:31 G	5307861.24	5307861.48	5307861.73	0.0089	0.0026
Earth	9820-05-01 02:52 G	5307861.38	5307861.62	5307861.87	0.0089	0.0022 *

Earth	9821-05-03 13:11 G	5308228.84	5308229.05	5308229.30	0.0089	0.0036
Moon	9821-05-03 17:02 G	5308228.98	5308229.21	5308229.46	0.0089	0.0031 *
Moon	9822-05-05 21:07 G	5308596.19	5308596.38	5308596.59	0.0089	0.0053
Earth	9822-05-06 00:14 G	5308596.31	5308596.51	5308596.74	0.0089	0.0049 *
Earth	9823-05-08 10:48 G	5308963.79	5308963.95	5308964.15	0.0089	0.0062
Moon	9823-05-08 13:26 G	5308963.88	5308964.06	5308964.27	0.0089	0.0058 *
Moon	9824-05-09 19:26 G	5309331.23	5309331.31	5309331.45	0.0089	0.0080
Earth	9824-05-09 21:21 G	5309331.28	5309331.39	5309331.55	0.0089	0.0075 *
Moon	9825-05-12 07:40 G	5309698.77	5309698.82	5309698.94	0.0089	0.0084
Earth	9825-05-12 07:55 G	5309698.82	5309698.83	5309698.89	0.0089	0.0088 *
Mars	9840-05-03 16:48 G	5315168.87	5315169.20	5315169.55	0.0088	0.0008
Venus	9858-09-18 12:00 G	5321880.96	5321881.00	5321881.07	0.0088	0.0085
Venus	9859-05-02 01:11 G	5322106.41	5322106.55	5322106.69	0.0088	0.0066
Mercury	9859-11-26 03:07 G	5322314.58	5322314.63	5322314.71	0.0088	0.0081
Venus	9859-12-13 13:40 G	5322331.89	5322332.07	5322332.26	0.0088	0.0048
Mercury	9860-02-22 05:31 G	5322402.66	5322402.73	5322402.84	0.0088	0.0073
Mercury	9860-05-20 08:09 G	5322490.74	5322490.84	5322490.97	0.0088	0.0065
Venus	9860-07-26 02:09 G	5322557.40	5322557.59	5322557.81	0.0088	0.0030
Mercury	9860-08-16 11:02 G	5322578.83	5322578.96	5322579.09	0.0088	0.0056
Mercury	9860-11-12 13:26 G	5322666.92	5322667.06	5322667.21	0.0088	0.0048
Mercury	9861-02-08 15:50 G	5322755.02	5322755.16	5322755.32	0.0088	0.0040
Venus	9861-03-08 15:07 G	5322782.91	5322783.13	5322783.35	0.0088	0.0011
Mercury	9861-05-07 18:28 G	5322843.12	5322843.27	5322843.44	0.0088	0.0032
Mercury	9861-08-03 21:07 G	5322931.22	5322931.38	5322931.55	0.0088	0.0024
Venus	9861-10-20 03:50 G	5323008.44	5323008.66	5323008.88	0.0088	0.0007
Mercury	9861-10-30 23:45 G	5323019.32	5323019.49	5323019.66	0.0088	0.0015
Mercury	9862-01-27 02:23 G	5323107.43	5323107.60	5323107.77	0.0088	0.0007
Mercury	9862-04-25 05:02 G	5323195.54	5323195.71	5323195.88	0.0088	0.0002
Venus	9862-06-02 16:19 G	5323233.98	5323234.18	5323234.40	0.0088	0.0026
Mercury	9862-07-22 07:40 G	5323283.65	5323283.82	5323283.99	0.0088	0.0010

Mercury	9862-10-18 10:04 G	5323371.76	5323371.92	5323372.10	0.0088	0.0019
Venus	9863-01-14 04:48 G	5323459.52	5323459.70	5323459.90	0.0088	0.0044
Mercury	9863-01-14 12:43 G	5323459.87	5323460.03	5323460.20	0.0088	0.0027 *
Mercury	9863-04-12 15:21 G	5323547.99	5323548.14	5323548.31	0.0088	0.0036
Mercury	9863-07-09 18:00 G	5323636.11	5323636.25	5323636.41	0.0088	0.0044
Venus	9863-08-27 17:02 G	5323685.08	5323685.21	5323685.39	0.0088	0.0063
Mercury	9863-10-05 20:38 G	5323724.23	5323724.36	5323724.51	0.0088	0.0053
Mercury	9864-01-01 23:31 G	5323812.36	5323812.48	5323812.60	0.0088	0.0061
Mercury	9864-03-30 01:55 G	5323900.49	5323900.58	5323900.70	0.0088	0.0070
Venus	9864-04-09 05:45 G	5323910.68	5323910.74	5323910.85	0.0088	0.0081
Mercury	9864-06-26 04:33 G	5323988.63	5323988.69	5323988.78	0.0088	0.0079
Mercury	9864-09-22 07:26 G	5324076.80	5324076.81	5324076.84	0.0088	0.0087
Earth	9895-10-13 16:19 G	5335420.08	5335420.18	5335420.34	0.0088	0.0077
Moon	9895-10-13 17:45 G	5335420.10	5335420.24	5335420.38	0.0088	0.0075 *
Earth	9896-10-15 04:48 G	5335787.54	5335787.70	5335787.90	0.0088	0.0064
Moon	9896-10-15 05:45 G	5335787.59	5335787.74	5335787.92	0.0088	0.0066 *
Moon	9897-10-17 14:38 G	5336154.91	5336155.11	5336155.36	0.0088	0.0048
Earth	9897-10-17 17:02 G	5336155.02	5336155.21	5336155.44	0.0088	0.0051 *
Earth	9898-10-20 05:16 G	5336522.50	5336522.72	5336522.97	0.0088	0.0038
Moon	9898-10-20 08:23 G	5336522.62	5336522.85	5336523.08	0.0088	0.0040 *
Moon	9899-10-22 14:23 G	5336889.85	5336890.10	5336890.36	0.0088	0.0023
Earth	9899-10-22 17:45 G	5336890.01	5336890.24	5336890.51	0.0088	0.0025 *
Earth	9900-10-25 06:14 G	5337257.51	5337257.76	5337258.02	0.0088	0.0012
Moon	9900-10-25 09:50 G	5337257.66	5337257.91	5337258.17	0.0088	0.0014 *
Moon	9901-10-27 15:21 G	5337624.88	5337625.14	5337625.40	0.0088	0.0003
Earth	9901-10-27 18:43 G	5337625.02	5337625.28	5337625.54	0.0088	0.0002 *
Earth	9902-10-30 06:43 G	5337992.54	5337992.78	5337993.05	0.0088	0.0016
Moon	9902-10-30 09:50 G	5337992.65	5337992.91	5337993.18	0.0088	0.0014 *
Moon	9903-11-01 18:00 G	5338360.02	5338360.25	5338360.49	0.0088	0.0030
Earth	9903-11-01 19:11 G	5338360.07	5338360.30	5338360.56	0.0088	0.0029 *

Earth	9904-11-03 07:40 G	5338727.61	5338727.82	5338728.07	0.0088	0.0042
Moon	9904-11-03 08:38 G	5338727.63	5338727.86	5338728.11	0.0088	0.0041 *
Earth	9905-11-05 20:09 G	5339095.15	5339095.34	5339095.56	0.0088	0.0055
Moon	9905-11-05 21:07 G	5339095.19	5339095.38	5339095.58	0.0088	0.0056 *
Moon	9906-11-08 06:28 G	5339462.62	5339462.77	5339462.97	0.0088	0.0067
Earth	9906-11-08 08:52 G	5339462.72	5339462.87	5339463.05	0.0088	0.0068 *
Earth	9907-11-10 21:36 G	5339830.31	5339830.40	5339830.52	0.0088	0.0081
Moon	9907-11-10 23:45 G	5339830.42	5339830.49	5339830.62	0.0088	0.0082 *
Mars	9922-03-19 07:26 G	5345072.61	5345072.81	5345073.02	0.0089	0.0062
Mars	9924-02-11 00:14 G	5345766.25	5345766.51	5345766.81	0.0089	0.0023
Venus	9941-06-18 01:11 G	5352103.54	5352103.55	5352103.60	0.0089	0.0089
Venus	9942-01-29 14:23 G	5352328.98	5352329.10	5352329.26	0.0089	0.0070
Mercury	9942-06-04 10:04 G	5352454.88	5352454.92	5352454.99	0.0089	0.0083
Mercury	9942-08-31 12:14 G	5352542.93	5352543.01	5352543.09	0.0089	0.0075
Venus	9942-09-12 04:04 G	5352554.49	5352554.67	5352554.85	0.0089	0.0050
Mercury	9942-11-27 13:40 G	5352630.99	5352631.07	5352631.19	0.0089	0.0068
Mercury	9943-02-23 15:50 G	5352719.06	5352719.16	5352719.28	0.0089	0.0059
Venus	9943-04-25 17:16 G	5352780.02	5352780.22	5352780.43	0.0089	0.0031
Mercury	9943-05-22 17:45 G	5352807.12	5352807.24	5352807.36	0.0089	0.0052
Mercury	9943-08-18 19:26 G	5352895.19	5352895.31	5352895.44	0.0089	0.0044
Mercury	9943-11-14 21:21 G	5352983.26	5352983.39	5352983.53	0.0089	0.0036
Venus	9943-12-07 06:43 G	5353005.57	5353005.78	5353006.00	0.0089	0.0011
Mercury	9944-02-10 23:16 G	5353071.33	5353071.47	5353071.61	0.0089	0.0029
Mercury	9944-05-09 00:57 G	5353159.40	5353159.54	5353159.68	0.0089	0.0021
Venus	9944-07-19 20:09 G	5353231.12	5353231.34	5353231.56	0.0089	0.0008
Mercury	9944-08-05 02:38 G	5353247.47	5353247.61	5353247.76	0.0089	0.0014
Mercury	9944-11-01 04:33 G	5353335.54	5353335.69	5353335.84	0.0089	0.0006
Mercury	9945-01-28 06:14 G	5353423.62	5353423.76	5353423.91	0.0089	0.0003
Venus	9945-03-02 09:21 G	5353456.69	5353456.89	5353457.10	0.0089	0.0028
Mercury	9945-04-26 08:09 G	5353511.69	5353511.84	5353511.98	0.0089	0.0009



Mercury	9945-07-23 09:50 G	5353599.77	5353599.91	5353600.05	0.0089	0.0016
Venus	9945-10-13 22:33 G	5353682.27	5353682.44	5353682.64	0.0089	0.0047
Mercury	9945-10-19 11:31 G	5353687.84	5353687.98	5353688.12	0.0089	0.0024
Mercury	9946-01-15 13:11 G	5353775.92	5353776.05	5353776.19	0.0089	0.0031
Mercury	9946-04-13 15:07 G	5353864.00	5353864.13	5353864.26	0.0089	0.0039
Venus	9946-05-27 12:00 G	5353907.86	5353908.00	5353908.16	0.0089	0.0067
Mercury	9946-07-10 16:33 G	5353952.08	5353952.19	5353952.32	0.0089	0.0046
Mercury	9946-10-06 18:14 G	5354040.16	5354040.26	5354040.39	0.0089	0.0054
Mercury	9947-01-02 20:09 G	5354128.24	5354128.34	5354128.45	0.0089	0.0061
Venus	9947-01-08 01:40 G	5354133.51	5354133.57	5354133.63	0.0089	0.0086
Mercury	9947-03-31 21:50 G	5354216.32	5354216.41	5354216.51	0.0089	0.0068
Mercury	9947-06-27 23:16 G	5354304.41	5354304.47	5354304.56	0.0089	0.0076
Mercury	9947-09-24 00:57 G	5354392.50	5354392.54	5354392.61	0.0089	0.0083
Moon	9976-04-13 16:33 G	5364822.16	5364822.19	5364822.26	0.0089	0.0088
Earth	9977-04-16 07:26 G	5365189.69	5365189.81	5365189.94	0.0089	0.0077
Moon	9977-04-16 09:50 G	5365189.81	5365189.91	5365190.04	0.0089	0.0080 *
Moon	9978-04-18 17:16 G	5365557.06	5365557.22	5365557.42	0.0089	0.0061
Earth	9978-04-18 18:14 G	5365557.11	5365557.26	5365557.46	0.0089	0.0064 *
Earth	9979-04-21 05:45 G	5365924.53	5365924.74	5365924.95	0.0089	0.0051
Moon	9979-04-21 05:31 G	5365924.55	5365924.73	5365924.97	0.0089	0.0054 *
Earth	9980-04-22 16:48 G	5366291.97	5366292.20	5366292.44	0.0089	0.0038
Moon	9980-04-22 17:45 G	5366292.03	5366292.24	5366292.48	0.0089	0.0035 *
Moon	9981-04-25 01:11 G	5366659.31	5366659.55	5366659.81	0.0089	0.0028
Earth	9981-04-25 03:50 G	5366659.42	5366659.66	5366659.91	0.0089	0.0024 *
Earth	9982-04-27 14:52 G	5367026.87	5367027.12	5367027.37	0.0089	0.0011
Moon	9982-04-27 17:31 G	5367026.99	5367027.23	5367027.49	0.0089	0.0009 *
Moon	9983-04-29 22:19 G	5367394.17	5367394.43	5367394.68	0.0089	0.0001
Earth	9983-04-30 01:55 G	5367394.33	5367394.58	5367394.84	0.0089	0.0002 *
Earth	9984-05-01 12:43 G	5367761.78	5367762.03	5367762.28	0.0089	0.0015
Moon	9984-05-01 16:04 G	5367761.92	5367762.17	5367762.43	0.0089	0.0018 *

Moon	9985-05-03 20:23 G	5368129.13	5368129.35	5368129.60	0.0089	0.0027	
Earth	9985-05-03 23:31 G	5368129.26	5368129.48	5368129.74	0.0089	0.0029	*
Earth	9986-05-06 10:19 G	5368496.73	5368496.93	5368497.18	0.0089	0.0042	
Moon	9986-05-06 12:43 G	5368496.82	5368497.03	5368497.27	0.0089	0.0044	*
Moon	9987-05-08 20:23 G	5368864.17	5368864.35	5368864.57	0.0089	0.0053	
Earth	9987-05-08 21:07 G	5368864.20	5368864.38	5368864.60	0.0089	0.0055	*
Earth	9988-05-10 07:55 G	5369231.69	5369231.83	5369232.02	0.0089	0.0068	
Moon	9988-05-10 08:09 G	5369231.70	5369231.84	5369232.02	0.0089	0.0069	*
Earth	9989-05-12 19:11 G	5369599.19	5369599.30	5369599.41	0.0089	0.0080	
Moon	9989-05-12 20:38 G	5369599.25	5369599.36	5369599.48	0.0089	0.0078	*

# 11TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 11th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	10003-12-17 07:11 G		5374930.54	5374930.80	5374931.10	0.0089	0.0051	
Mars	10005-11-12 12:00 G		5375626.73	5375627.00	5375627.30	0.0088	0.0049	
Jupiter	10011-04-17 21:50 G		5377608.88	5377609.41	5377609.98	0.0088	0.0020	
Venus	10023-08-04 11:45 G		5382100.88	5382100.99	5382101.11	0.0088	0.0074	
Venus	10024-03-17 00:14 G		5382326.35	5382326.51	5382326.69	0.0088	0.0056	
Mercury	10024-05-27 00:00 G		5382397.46	5382397.50	5382397.54	0.0088	0.0085	
Mercury	10024-08-23 02:23 G		5382485.53	5382485.60	5382485.68	0.0088	0.0077	
Venus	10024-10-28 13:11 G		5382551.85	5382552.05	5382552.25	0.0088	0.0037	

Mercury	10024-11-19 04:48 G	5382573.61	5382573.70	5382573.81	0.0088	0.0069
Mercury	10025-02-15 07:26 G	5382661.69	5382661.81	5382661.93	0.0088	0.0061
Mercury	10025-05-14 09:50 G	5382749.78	5382749.91	5382750.05	0.0088	0.0053
Venus	10025-06-11 01:55 G	5382777.37	5382777.58	5382777.80	0.0088	0.0019
Mercury	10025-08-10 12:14 G	5382837.88	5382838.01	5382838.17	0.0088	0.0045
Mercury	10025-11-06 14:52 G	5382925.98	5382926.12	5382926.28	0.0088	0.0037
Venus	10026-01-22 14:38 G	5383002.89	5383003.11	5383003.33	0.0088	0.0002
Mercury	10026-02-02 17:31 G	5383014.08	5383014.23	5383014.40	0.0088	0.0028
Mercury	10026-05-01 20:09 G	5383102.18	5383102.34	5383102.51	0.0088	0.0020
Mercury	10026-07-28 22:48 G	5383190.28	5383190.45	5383190.62	0.0088	0.0012
Venus	10026-09-05 03:21 G	5383228.42	5383228.64	5383228.86	0.0088	0.0018
Mercury	10026-10-25 01:26 G	5383278.39	5383278.56	5383278.73	0.0088	0.0003
Mercury	10027-01-21 04:04 G	5383366.50	5383366.67	5383366.84	0.0088	0.0005
Venus	10027-04-18 15:36 G	5383453.97	5383454.15	5383454.37	0.0088	0.0037
Mercury	10027-04-19 06:28 G	5383454.61	5383454.77	5383454.95	0.0088	0.0014
Mercury	10027-07-16 09:07 G	5383542.72	5383542.88	5383543.05	0.0088	0.0022
Mercury	10027-10-12 11:45 G	5383630.83	5383630.99	5383631.16	0.0088	0.0031
Venus	10027-11-30 04:33 G	5383679.53	5383679.69	5383679.87	0.0088	0.0055
Mercury	10028-01-08 14:23 G	5383718.95	5383719.10	5383719.26	0.0088	0.0039
Mercury	10028-04-05 16:48 G	5383807.07	5383807.20	5383807.36	0.0088	0.0048
Mercury	10028-07-02 19:40 G	5383895.19	5383895.32	5383895.46	0.0088	0.0056
Venus	10028-07-12 16:48 G	5383905.11	5383905.20	5383905.34	0.0088	0.0074
Mercury	10028-09-28 22:19 G	5383983.32	5383983.43	5383983.55	0.0088	0.0065
Mercury	10028-12-26 00:43 G	5384071.46	5384071.53	5384071.64	0.0088	0.0074
Mercury	10029-03-24 03:36 G	5384159.60	5384159.65	5384159.72	0.0088	0.0082
Earth	10059-10-14 00:43 G	5395320.47	5395320.53	5395320.66	0.0088	0.0083
Moon	10059-10-14 02:23 G	5395320.56	5395320.60	5395320.69	0.0088	0.0085 *
Moon	10060-10-15 10:48 G	5395687.79	5395687.95	5395688.15	0.0088	0.0065
Earth	10060-10-15 13:11 G	5395687.91	5395688.05	5395688.23	0.0088	0.0069 *
Earth	10061-10-18 01:26 G	5396055.38	5396055.56	5396055.78	0.0088	0.0057

Moon	10061-10-18 04:33 G	5396055.53	5396055.69	5396055.91	0.0088	0.0061 *
Moon	10062-10-20 10:19 G	5396422.72	5396422.93	5396423.18	0.0088	0.0040
Earth	10062-10-20 14:09 G	5396422.87	5396423.09	5396423.32	0.0088	0.0044 *
Earth	10063-10-23 02:23 G	5396790.36	5396790.60	5396790.85	0.0088	0.0031
Moon	10063-10-23 05:45 G	5396790.52	5396790.74	5396791.00	0.0088	0.0036 *
Moon	10064-10-24 12:00 G	5397157.75	5397158.00	5397158.26	0.0088	0.0014
Earth	10064-10-24 14:38 G	5397157.87	5397158.11	5397158.38	0.0088	0.0018 *
Earth	10065-10-27 03:07 G	5397525.37	5397525.63	5397525.90	0.0088	0.0005
Moon	10065-10-27 05:31 G	5397525.46	5397525.73	5397526.00	0.0088	0.0009 *
Moon	10066-10-29 14:23 G	5397892.85	5397893.10	5397893.35	0.0088	0.0012
Earth	10066-10-29 15:36 G	5397892.90	5397893.15	5397893.42	0.0088	0.0009 *
Moon	10067-11-01 03:36 G	5398260.39	5398260.65	5398260.92	0.0088	0.0018
Earth	10067-11-01 04:04 G	5398260.42	5398260.67	5398260.93	0.0088	0.0021 *
Earth	10068-11-02 16:04 G	5398627.95	5398628.17	5398628.43	0.0088	0.0035
Moon	10068-11-02 17:16 G	5398628.01	5398628.22	5398628.46	0.0088	0.0038 *
Moon	10069-11-05 02:38 G	5398995.38	5398995.61	5398995.85	0.0088	0.0043
Earth	10069-11-05 04:33 G	5398995.49	5398995.69	5398995.93	0.0088	0.0048 *
Earth	10070-11-07 17:02 G	5399363.04	5399363.21	5399363.42	0.0088	0.0061
Moon	10070-11-07 20:23 G	5399363.19	5399363.35	5399363.54	0.0088	0.0065 *
Moon	10071-11-10 02:38 G	5399730.45	5399730.61	5399730.78	0.0088	0.0069
Earth	10071-11-10 05:31 G	5399730.61	5399730.73	5399730.90	0.0088	0.0074 *
Earth	10072-11-11 18:28 G	5400098.22	5400098.27	5400098.34	0.0088	0.0086
Mars	10087-09-26 12:28 G	5405529.74	5405530.02	5405530.31	0.0089	0.0015
Mars	10089-08-20 04:48 G	5406223.55	5406223.70	5406223.90	0.0089	0.0070
Venus	10106-05-04 00:57 G	5412323.45	5412323.54	5412323.67	0.0089	0.0078
Mercury	10106-12-04 08:09 G	5412537.81	5412537.84	5412537.87	0.0089	0.0087
Venus	10106-12-15 14:23 G	5412548.95	5412549.10	5412549.29	0.0089	0.0058
Mercury	10107-03-02 09:36 G	5412625.85	5412625.90	5412625.99	0.0089	0.0080
Mercury	10107-05-29 11:31 G	5412713.91	5412713.98	5412714.08	0.0089	0.0072
Venus	10107-07-29 03:50 G	5412774.47	5412774.66	5412774.87	0.0089	0.0039

Mercury	10107-08-25 13:40 G	5412801.97	5412802.07	5412802.17	0.0089	0.0064
Mercury	10107-11-21 15:21 G	5412890.03	5412890.14	5412890.26	0.0089	0.0056
Mercury	10108-02-17 17:16 G	5412978.10	5412978.22	5412978.35	0.0089	0.0048
Venus	10108-03-10 17:16 G	5413000.01	5413000.22	5413000.44	0.0089	0.0019
Mercury	10108-05-15 19:11 G	5413066.17	5413066.30	5413066.43	0.0089	0.0041
Mercury	10108-08-11 20:52 G	5413154.24	5413154.37	5413154.51	0.0089	0.0033
Venus	10108-10-22 06:43 G	5413225.56	5413225.78	5413226.00	0.0089	0.0001
Mercury	10108-11-07 22:48 G	5413242.31	5413242.45	5413242.59	0.0089	0.0025
Mercury	10109-02-04 00:28 G	5413330.38	5413330.52	5413330.67	0.0089	0.0018
Mercury	10109-05-03 02:23 G	5413418.45	5413418.60	5413418.74	0.0089	0.0010
Venus	10109-06-04 19:55 G	5413451.12	5413451.33	5413451.55	0.0089	0.0020
Mercury	10109-07-30 04:04 G	5413506.53	5413506.67	5413506.82	0.0089	0.0004
Mercury	10109-10-26 06:00 G	5413594.60	5413594.75	5413594.89	0.0089	0.0005
Venus	10110-01-16 09:07 G	5413676.69	5413676.88	5413677.09	0.0089	0.0039
Mercury	10110-01-22 07:40 G	5413682.68	5413682.82	5413682.97	0.0089	0.0012
Mercury	10110-04-20 09:21 G	5413770.75	5413770.89	5413771.04	0.0089	0.0020
Mercury	10110-07-17 11:02 G	5413858.83	5413858.96	5413859.11	0.0089	0.0027
Venus	10110-08-29 22:19 G	5413902.28	5413902.43	5413902.61	0.0089	0.0059
Mercury	10110-10-13 12:57 G	5413946.91	5413947.04	5413947.17	0.0089	0.0034
Mercury	10111-01-09 14:38 G	5414034.98	5414035.11	5414035.24	0.0089	0.0042
Mercury	10111-04-07 16:04 G	5414123.06	5414123.17	5414123.30	0.0089	0.0050
Venus	10111-04-12 12:00 G	5414127.89	5414128.00	5414128.10	0.0089	0.0078
Mercury	10111-07-04 18:00 G	5414211.14	5414211.25	5414211.37	0.0089	0.0057
Mercury	10111-09-30 19:40 G	5414299.23	5414299.32	5414299.43	0.0089	0.0064
Mercury	10111-12-27 21:07 G	5414387.31	5414387.38	5414387.48	0.0089	0.0072
Mercury	10112-03-24 23:02 G	5414475.40	5414475.46	5414475.54	0.0089	0.0078
Mercury	10112-06-21 00:43 G	5414563.50	5414563.53	5414563.58	0.0089	0.0086
Moon	10141-04-16 15:50 G	5425090.08	5425090.16	5425090.31	0.0089	0.0080
Earth	10141-04-16 16:48 G	5425090.13	5425090.20	5425090.33	0.0089	0.0082 *
Moon	10142-04-19 03:36 G	5425457.51	5425457.65	5425457.82	0.0089	0.0072

Earth	10142-04-19 04:04 G	5425457.54	5425457.67	5425457.86	0.0089	0.0070	*
Earth	10143-04-21 15:36 G	5425824.97	5425825.15	5425825.36	0.0089	0.0056	
Moon	10143-04-21 17:02 G	5425825.03	5425825.21	5425825.42	0.0089	0.0054	*
Moon	10144-04-23 00:14 G	5426192.29	5426192.51	5426192.74	0.0089	0.0047	
Earth	10144-04-23 02:38 G	5426192.41	5426192.61	5426192.85	0.0089	0.0044	*
Earth	10145-04-25 13:55 G	5426559.85	5426560.08	5426560.32	0.0089	0.0030	
Moon	10145-04-25 17:16 G	5426559.99	5426560.22	5426560.47	0.0089	0.0027	*
Moon	10146-04-27 21:21 G	5426927.16	5426927.39	5426927.65	0.0089	0.0021	
Earth	10146-04-28 00:57 G	5426927.30	5426927.54	5426927.80	0.0089	0.0018	*
Earth	10147-04-30 11:45 G	5427294.74	5427294.99	5427295.25	0.0089	0.0005	
Moon	10147-04-30 15:21 G	5427294.89	5427295.14	5427295.40	0.0089	0.0002	*
Moon	10148-05-01 20:23 G	5427662.11	5427662.35	5427662.60	0.0089	0.0006	
Earth	10148-05-01 22:48 G	5427662.20	5427662.45	5427662.71	0.0089	0.0009	*
Earth	10149-05-04 09:50 G	5428029.66	5428029.91	5428030.15	0.0089	0.0021	
Moon	10149-05-04 11:31 G	5428029.73	5428029.98	5428030.24	0.0089	0.0025	*
Moon	10150-05-06 19:40 G	5428397.10	5428397.32	5428397.56	0.0089	0.0031	
Earth	10150-05-06 20:38 G	5428397.12	5428397.36	5428397.59	0.0089	0.0034	*
Moon	10151-05-09 06:14 G	5428764.55	5428764.76	5428764.98	0.0089	0.0050	
Earth	10151-05-09 07:11 G	5428764.60	5428764.80	5428765.03	0.0089	0.0047	*
Earth	10152-05-10 18:00 G	5429132.08	5429132.25	5429132.45	0.0089	0.0060	
Moon	10152-05-10 19:26 G	5429132.15	5429132.31	5429132.52	0.0089	0.0057	*
Moon	10153-05-13 02:09 G	5429499.46	5429499.59	5429499.72	0.0089	0.0076	
Earth	10153-05-13 04:33 G	5429499.57	5429499.69	5429499.86	0.0089	0.0073	*
Earth	10154-05-15 15:21 G	5429867.09	5429867.14	5429867.23	0.0089	0.0085	
Moon	10154-05-15 18:28 G	5429867.21	5429867.27	5429867.40	0.0089	0.0082	*
Mars	10169-06-27 00:43 G	5435388.19	5435388.53	5435388.88	0.0088	0.0005	
Jupiter	10177-06-18 13:40 G	5438301.66	5438302.07	5438302.58	0.0088	0.0052	
Venus	10187-11-06 21:36 G	5442095.36	5442095.40	5442095.50	0.0088	0.0083	
Venus	10188-06-19 10:48 G	5442320.81	5442320.95	5442321.11	0.0088	0.0064	
Venus	10189-01-30 23:16 G	5442546.30	5442546.47	5442546.67	0.0088	0.0046	

Mercury	10189-02-21 22:48 G	5442568.40	5442568.45	5442568.51	0.0088	0.0082
Mercury	10189-05-21 01:11 G	5442656.47	5442656.55	5442656.64	0.0088	0.0074
Mercury	10189-08-17 03:36 G	5442744.55	5442744.65	5442744.77	0.0088	0.0066
Venus	10189-09-13 12:14 G	5442771.80	5442772.01	5442772.22	0.0088	0.0027
Mercury	10189-11-13 06:14 G	5442832.64	5442832.76	5442832.89	0.0088	0.0058
Mercury	10190-02-09 08:38 G	5442920.73	5442920.86	5442921.01	0.0088	0.0050
Venus	10190-04-27 00:57 G	5442997.32	5442997.54	5442997.76	0.0088	0.0009
Mercury	10190-05-08 11:02 G	5443008.83	5443008.96	5443009.12	0.0088	0.0042
Mercury	10190-08-04 13:40 G	5443096.92	5443097.07	5443097.24	0.0088	0.0034
Mercury	10190-10-31 16:19 G	5443185.02	5443185.18	5443185.35	0.0088	0.0025
Venus	10190-12-08 13:40 G	5443222.85	5443223.07	5443223.29	0.0088	0.0010
Mercury	10191-01-27 18:57 G	5443273.12	5443273.29	5443273.46	0.0088	0.0017
Mercury	10191-04-25 21:36 G	5443361.23	5443361.40	5443361.57	0.0088	0.0009
Venus	10191-07-22 02:09 G	5443448.39	5443448.59	5443448.81	0.0088	0.0029
Mercury	10191-07-23 00:14 G	5443449.34	5443449.51	5443449.68	0.0088	0.0002
Mercury	10191-10-19 02:38 G	5443537.44	5443537.61	5443537.79	0.0088	0.0008
Mercury	10192-01-15 05:16 G	5443625.55	5443625.72	5443625.89	0.0088	0.0017
Venus	10192-03-03 14:38 G	5443673.94	5443674.11	5443674.31	0.0088	0.0047
Mercury	10192-04-12 07:55 G	5443713.67	5443713.83	5443714.00	0.0088	0.0025
Mercury	10192-07-09 10:19 G	5443801.78	5443801.93	5443802.10	0.0088	0.0034
Mercury	10192-10-05 12:57 G	5443889.90	5443890.04	5443890.20	0.0088	0.0042
Venus	10192-10-15 03:07 G	5443899.51	5443899.63	5443899.80	0.0088	0.0066
Mercury	10193-01-01 15:36 G	5443978.02	5443978.15	5443978.30	0.0088	0.0051
Mercury	10193-03-30 18:28 G	5444066.15	5444066.27	5444066.40	0.0088	0.0059
Venus	10193-05-28 16:04 G	5444125.12	5444125.17	5444125.25	0.0088	0.0084
Mercury	10193-06-26 20:52 G	5444154.27	5444154.37	5444154.49	0.0088	0.0068
Mercury	10193-09-22 23:45 G	5444242.41	5444242.49	5444242.58	0.0088	0.0076
Mercury	10193-12-20 02:23 G	5444330.57	5444330.60	5444330.65	0.0088	0.0085
Earth	10223-10-15 08:52 G	5455220.86	5455220.87	5455220.94	0.0088	0.0087
Earth	10224-10-16 21:21 G	5455588.25	5455588.39	5455588.53	0.0088	0.0075

Moon	10224-10-17 00:43 G	5455588.38	5455588.53	5455588.68	0.0088	0.0072	*
Moon	10225-10-19 05:02 G	5455955.57	5455955.71	5455955.91	0.0088	0.0066	
Earth	10225-10-19 08:52 G	5455955.71	5455955.87	5455956.08	0.0088	0.0063	*
Earth	10226-10-21 21:21 G	5456323.19	5456323.39	5456323.62	0.0088	0.0050	
Moon	10226-10-22 00:28 G	5456323.31	5456323.52	5456323.76	0.0088	0.0047	*
Moon	10227-10-24 06:57 G	5456690.57	5456690.79	5456691.02	0.0088	0.0040	
Earth	10227-10-24 09:36 G	5456690.68	5456690.90	5456691.15	0.0088	0.0037	*
Earth	10228-10-25 21:50 G	5457058.17	5457058.41	5457058.67	0.0088	0.0024	
Moon	10228-10-25 23:16 G	5457058.22	5457058.47	5457058.75	0.0088	0.0022	*
Moon	10229-10-28 10:04 G	5457425.68	5457425.92	5457426.18	0.0088	0.0014	
Earth	10229-10-28 10:33 G	5457425.68	5457425.94	5457426.20	0.0088	0.0011	*
Moon	10230-10-30 22:33 G	5457793.17	5457793.44	5457793.71	0.0088	0.0004	
Earth	10230-10-30 23:02 G	5457793.20	5457793.46	5457793.72	0.0088	0.0002	*
Earth	10231-11-02 11:16 G	5458160.72	5458160.97	5458161.23	0.0088	0.0014	
Moon	10231-11-02 13:26 G	5458160.81	5458161.06	5458161.31	0.0088	0.0012	*
Moon	10232-11-03 20:38 G	5458528.12	5458528.36	5458528.63	0.0088	0.0030	
Earth	10232-11-03 23:31 G	5458528.25	5458528.48	5458528.74	0.0088	0.0028	*
Earth	10233-11-06 11:45 G	5458895.78	5458895.99	5458896.25	0.0088	0.0041	
Moon	10233-11-06 15:21 G	5458895.92	5458896.14	5458896.38	0.0088	0.0038	*
Moon	10234-11-08 20:52 G	5459263.18	5459263.37	5459263.59	0.0088	0.0056	
Earth	10234-11-09 00:43 G	5459263.33	5459263.53	5459263.75	0.0088	0.0053	*
Earth	10235-11-11 12:57 G	5459630.89	5459631.04	5459631.23	0.0088	0.0066	
Moon	10235-11-11 16:19 G	5459631.02	5459631.18	5459631.38	0.0088	0.0064	*
Moon	10236-11-12 22:33 G	5459998.35	5459998.44	5459998.57	0.0088	0.0080	
Earth	10236-11-13 01:55 G	5459998.46	5459998.58	5459998.71	0.0088	0.0078	*
Moon	10237-11-15 16:19 G	5460366.18	5460366.18	5460366.19	0.0088	0.0088	
Mars	10251-05-13 23:31 G	5465293.25	5465293.48	5465293.72	0.0089	0.0053	
Mars	10253-04-06 15:36 G	5465986.89	5465987.15	5465987.43	0.0089	0.0032	
Venus	10270-08-06 10:48 G	5472317.92	5472317.95	5472318.03	0.0089	0.0086	
Venus	10271-03-20 00:28 G	5472543.38	5472543.52	5472543.68	0.0089	0.0067	



Mercury	10271-09-01 07:11 G	5472708.77	5472708.80	5472708.86	0.0089	0.0084
Venus	10271-10-31 13:40 G	5472768.90	5472769.07	5472769.28	0.0089	0.0048
Mercury	10271-11-28 09:07 G	5472796.82	5472796.88	5472796.97	0.0089	0.0076
Mercury	10272-02-24 11:02 G	5472884.87	5472884.96	5472885.06	0.0089	0.0069
Mercury	10272-05-22 12:43 G	5472972.94	5472973.03	5472973.15	0.0089	0.0061
Venus	10272-06-13 03:21 G	5472994.44	5472994.64	5472994.85	0.0089	0.0028
Mercury	10272-08-18 14:38 G	5473061.00	5473061.11	5473061.24	0.0089	0.0054
Mercury	10272-11-14 16:33 G	5473149.07	5473149.19	5473149.32	0.0089	0.0046
Venus	10273-01-24 16:33 G	5473219.98	5473220.19	5473220.42	0.0089	0.0009
Mercury	10273-02-10 18:14 G	5473237.14	5473237.26	5473237.41	0.0089	0.0039
Mercury	10273-05-09 20:09 G	5473325.21	5473325.34	5473325.49	0.0089	0.0031
Mercury	10273-08-05 22:04 G	5473413.28	5473413.42	5473413.57	0.0089	0.0023
Venus	10273-09-07 05:45 G	5473445.53	5473445.74	5473445.97	0.0089	0.0012
Mercury	10273-11-02 00:00 G	5473501.36	5473501.50	5473501.64	0.0089	0.0015
Mercury	10274-01-29 01:40 G	5473589.43	5473589.57	5473589.72	0.0089	0.0008
Venus	10274-04-20 19:11 G	5473671.10	5473671.30	5473671.51	0.0089	0.0031
Mercury	10274-04-27 03:36 G	5473677.50	5473677.65	5473677.80	0.0089	0.0001
Mercury	10274-07-24 05:16 G	5473765.58	5473765.72	5473765.87	0.0089	0.0008
Mercury	10274-10-20 06:57 G	5473853.65	5473853.79	5473853.94	0.0089	0.0015
Venus	10274-12-02 08:23 G	5473896.68	5473896.85	5473897.05	0.0089	0.0050
Mercury	10275-01-16 08:52 G	5473941.73	5473941.87	5473942.01	0.0089	0.0022
Mercury	10275-04-14 10:33 G	5474029.81	5474029.94	5474030.08	0.0089	0.0030
Mercury	10275-07-11 12:14 G	5474117.88	5474118.01	5474118.15	0.0089	0.0037
Venus	10275-07-15 21:36 G	5474122.28	5474122.40	5474122.56	0.0089	0.0070
Mercury	10275-10-07 13:55 G	5474205.96	5474206.08	5474206.21	0.0089	0.0045
Mercury	10276-01-03 15:50 G	5474294.04	5474294.16	5474294.28	0.0089	0.0052
Venus	10276-02-26 11:16 G	5474347.95	5474347.97	5474347.99	0.0089	0.0089
Mercury	10276-03-31 17:16 G	5474382.13	5474382.22	5474382.34	0.0089	0.0060
Mercury	10276-06-27 19:11 G	5474470.21	5474470.30	5474470.40	0.0089	0.0066
Mercury	10276-09-23 20:52 G	5474558.30	5474558.37	5474558.45	0.0089	0.0074

Mercury	10276-12-20 22:19 G	5474646.39	5474646.43	5474646.50	0.0089	0.0081
Mercury	10277-03-19 00:00 G	5474734.50	5474734.50	5474734.54	0.0089	0.0089
Moon	10305-04-18 00:43 G	5484990.46	5484990.53	5484990.64	0.0089	0.0083
Earth	10305-04-18 01:26 G	5484990.53	5484990.56	5484990.64	0.0089	0.0087 *
Earth	10306-04-20 13:11 G	5485357.92	5485358.05	5485358.20	0.0089	0.0074
Moon	10306-04-20 15:36 G	5485358.05	5485358.15	5485358.28	0.0089	0.0079 *
Moon	10307-04-22 21:21 G	5485725.21	5485725.39	5485725.61	0.0089	0.0058
Earth	10307-04-23 00:14 G	5485725.35	5485725.51	5485725.72	0.0089	0.0062 *
Earth	10308-04-24 11:31 G	5486092.79	5486092.98	5486093.21	0.0089	0.0050
Moon	10308-04-24 15:21 G	5486092.94	5486093.14	5486093.35	0.0089	0.0053 *
Moon	10309-04-26 19:40 G	5486460.09	5486460.32	5486460.56	0.0089	0.0032
Earth	10309-04-26 23:02 G	5486460.24	5486460.46	5486460.70	0.0089	0.0037 *
Earth	10310-04-29 09:50 G	5486827.68	5486827.91	5486828.17	0.0089	0.0024
Moon	10310-04-29 12:57 G	5486827.80	5486828.04	5486828.30	0.0089	0.0027 *
Moon	10311-05-01 18:43 G	5487195.03	5487195.28	5487195.53	0.0089	0.0008
Earth	10311-05-01 21:07 G	5487195.13	5487195.38	5487195.64	0.0089	0.0011 *
Earth	10312-05-03 08:09 G	5487562.59	5487562.84	5487563.10	0.0089	0.0002
Moon	10312-05-03 09:07 G	5487562.62	5487562.88	5487563.15	0.0089	0.0003 *
Earth	10313-05-05 18:57 G	5487930.04	5487930.29	5487930.55	0.0089	0.0015
Moon	10313-05-05 18:57 G	5487930.06	5487930.29	5487930.54	0.0089	0.0018 *
Moon	10314-05-08 04:48 G	5488297.45	5488297.70	5488297.96	0.0089	0.0024
Earth	10314-05-08 06:00 G	5488297.51	5488297.75	5488297.99	0.0089	0.0027 *
Earth	10315-05-10 16:33 G	5488664.97	5488665.19	5488665.43	0.0089	0.0040
Moon	10315-05-10 18:57 G	5488665.09	5488665.29	5488665.52	0.0089	0.0044 *
Moon	10316-05-12 00:28 G	5489032.31	5489032.52	5489032.74	0.0089	0.0049
Earth	10316-05-12 03:07 G	5489032.45	5489032.63	5489032.86	0.0089	0.0053 *
Earth	10317-05-14 14:09 G	5489399.93	5489400.09	5489400.28	0.0089	0.0065
Moon	10317-05-14 17:31 G	5489400.09	5489400.23	5489400.42	0.0089	0.0068 *
Moon	10318-05-16 21:21 G	5489767.28	5489767.39	5489767.55	0.0089	0.0074
Earth	10318-05-17 00:43 G	5489767.43	5489767.53	5489767.68	0.0089	0.0078 *

Mars	10333-02-09 11:31 G	5495149.70	5495149.98	5495150.30	0.0088	0.0041
Mars	10335-01-06 15:36 G	5495845.91	5495846.15	5495846.41	0.0088	0.0059
Venus	10352-09-22 20:38 G	5502315.25	5502315.36	5502315.50	0.0088	0.0073
Venus	10353-05-06 09:36 G	5502540.74	5502540.90	5502541.08	0.0088	0.0054
Mercury	10353-08-24 18:57 G	5502651.29	5502651.29	5502651.31	0.0088	0.0088
Mercury	10353-11-20 21:07 G	5502739.33	5502739.38	5502739.47	0.0088	0.0080
Venus	10353-12-17 22:04 G	5502766.23	5502766.42	5502766.64	0.0088	0.0036
Mercury	10354-02-16 23:45 G	5502827.41	5502827.49	5502827.60	0.0088	0.0072
Mercury	10354-05-16 02:09 G	5502915.49	5502915.59	5502915.72	0.0088	0.0064
Venus	10354-07-31 11:02 G	5502991.75	5502991.96	5502992.18	0.0088	0.0017
Mercury	10354-08-12 04:33 G	5503003.58	5503003.69	5503003.84	0.0088	0.0056
Mercury	10354-11-08 07:26 G	5503091.67	5503091.81	5503091.96	0.0088	0.0047
Mercury	10355-02-04 09:50 G	5503179.77	5503179.91	5503180.07	0.0088	0.0039
Venus	10355-03-13 23:45 G	5503217.27	5503217.49	5503217.71	0.0088	0.0002
Mercury	10355-05-03 12:28 G	5503267.87	5503268.02	5503268.18	0.0088	0.0031
Mercury	10355-07-30 14:52 G	5503355.97	5503356.12	5503356.29	0.0088	0.0023
Venus	10355-10-25 12:14 G	5503442.80	5503443.01	5503443.23	0.0088	0.0020
Mercury	10355-10-26 17:45 G	5503444.07	5503444.24	5503444.40	0.0088	0.0014
Mercury	10356-01-22 20:09 G	5503532.17	5503532.34	5503532.51	0.0088	0.0006
Mercury	10356-04-19 22:48 G	5503620.28	5503620.45	5503620.62	0.0088	0.0002
Venus	10356-06-07 00:43 G	5503668.35	5503668.53	5503668.75	0.0088	0.0039
Mercury	10356-07-17 01:11 G	5503708.39	5503708.55	5503708.73	0.0088	0.0011
Mercury	10356-10-13 03:50 G	5503796.50	5503796.66	5503796.83	0.0088	0.0019
Mercury	10357-01-09 06:28 G	5503884.61	5503884.77	5503884.94	0.0088	0.0028
Venus	10357-01-18 13:40 G	5503893.91	5503894.07	5503894.24	0.0088	0.0057
Mercury	10357-04-07 09:07 G	5503972.73	5503972.88	5503973.04	0.0088	0.0036
Mercury	10357-07-04 11:31 G	5504060.85	5504060.98	5504061.14	0.0088	0.0045
Venus	10357-09-01 01:55 G	5504119.49	5504119.58	5504119.71	0.0088	0.0076
Mercury	10357-09-30 14:23 G	5504148.97	5504149.10	5504149.24	0.0088	0.0053
Mercury	10357-12-27 16:48 G	5504237.09	5504237.20	5504237.34	0.0088	0.0062

Mercury	10358-03-25 19:40 G	5504325.22	5504325.32	5504325.43	0.0088	0.0070
Mercury	10358-06-21 22:04 G	5504413.36	5504413.42	5504413.51	0.0088	0.0079
Mercury	10358-09-18 00:57 G	5504501.54	5504501.54	5504501.56	0.0088	0.0088
Moon	10388-10-17 00:57 G	5515488.47	5515488.54	5515488.65	0.0088	0.0083
Earth	10388-10-17 04:33 G	5515488.59	5515488.69	5515488.81	0.0088	0.0080 *
Earth	10389-10-19 16:33 G	5515856.03	5515856.19	5515856.37	0.0088	0.0068
Moon	10389-10-19 19:40 G	5515856.16	5515856.32	5515856.51	0.0088	0.0064 *
Moon	10390-10-22 03:07 G	5516223.44	5516223.63	5516223.82	0.0088	0.0058
Earth	10390-10-22 04:33 G	5516223.50	5516223.69	5516223.91	0.0088	0.0055 *
Earth	10391-10-24 16:19 G	5516590.98	5516591.18	5516591.43	0.0088	0.0043
Moon	10391-10-24 17:31 G	5516591.01	5516591.23	5516591.50	0.0088	0.0040 *
Earth	10392-10-26 04:48 G	5516958.47	5516958.70	5516958.96	0.0088	0.0031
Moon	10392-10-26 05:16 G	5516958.49	5516958.72	5516958.96	0.0088	0.0033 *
Moon	10393-10-28 15:36 G	5517325.89	5517326.15	5517326.42	0.0088	0.0015
Earth	10393-10-28 17:16 G	5517325.97	5517326.22	5517326.48	0.0088	0.0018 *
Earth	10394-10-31 05:45 G	5517693.48	5517693.74	5517694.00	0.0088	0.0005
Moon	10394-10-31 07:55 G	5517693.58	5517693.83	5517694.09	0.0088	0.0008 *
Moon	10395-11-02 14:38 G	5518060.86	5518061.11	5518061.38	0.0088	0.0011
Earth	10395-11-02 18:14 G	5518061.00	5518061.26	5518061.52	0.0088	0.0007 *
Earth	10396-11-04 06:28 G	5518428.52	5518428.77	5518429.03	0.0088	0.0020
Moon	10396-11-04 10:04 G	5518428.67	5518428.92	5518429.18	0.0088	0.0017 *
Moon	10397-11-06 15:21 G	5518795.92	5518796.14	5518796.39	0.0088	0.0037
Earth	10397-11-06 19:11 G	5518796.06	5518796.30	5518796.55	0.0088	0.0033 *
Earth	10398-11-09 07:11 G	5519163.60	5519163.80	5519164.04	0.0088	0.0046
Moon	10398-11-09 10:33 G	5519163.72	5519163.94	5519164.19	0.0088	0.0042 *
Moon	10399-11-11 17:31 G	5519531.08	5519531.23	5519531.44	0.0088	0.0062
Earth	10399-11-11 19:40 G	5519531.14	5519531.32	5519531.54	0.0088	0.0058 *
Earth	10400-11-13 07:55 G	5519898.70	5519898.83	5519899.02	0.0088	0.0071
Moon	10400-11-13 09:21 G	5519898.74	5519898.89	5519899.10	0.0088	0.0067 *
Earth	10401-11-15 20:38 G	5520266.29	5520266.36	5520266.48	0.0088	0.0083

Moon	10401-11-15 20:52 G	5520266.34	5520266.37	5520266.44	0.0088	0.0087 *
Mars	10416-11-21 01:55 G	5525750.29	5525750.58	5525750.87	0.0089	0.0007
Mars	10418-10-15 17:31 G	5526444.12	5526444.23	5526444.40	0.0089	0.0078
Venus	10435-06-22 10:19 G	5532537.82	5532537.93	5532538.05	0.0089	0.0076
Venus	10436-02-02 23:16 G	5532763.32	5532763.47	5532763.66	0.0089	0.0057
Mercury	10436-05-29 06:43 G	5532879.72	5532879.78	5532879.84	0.0089	0.0082
Mercury	10436-08-25 08:09 G	5532967.78	5532967.84	5532967.94	0.0089	0.0075
Venus	10436-09-15 12:57 G	5532988.84	5532989.04	5532989.24	0.0089	0.0037
Mercury	10436-11-21 10:19 G	5533055.84	5533055.93	5533056.03	0.0089	0.0066
Mercury	10437-02-17 12:14 G	5533143.90	5533144.01	5533144.12	0.0089	0.0059
Venus	10437-04-29 02:09 G	5533214.38	5533214.59	5533214.81	0.0089	0.0017
Mercury	10437-05-16 14:09 G	5533231.97	5533232.09	5533232.21	0.0089	0.0051
Mercury	10437-08-12 15:50 G	5533320.04	5533320.16	5533320.30	0.0089	0.0043
Mercury	10437-11-08 17:45 G	5533408.11	5533408.24	5533408.38	0.0089	0.0036
Venus	10437-12-10 15:36 G	5533439.93	5533440.15	5533440.37	0.0089	0.0002
Mercury	10438-02-04 19:26 G	5533496.18	5533496.31	5533496.46	0.0089	0.0028
Mercury	10438-05-03 21:21 G	5533584.25	5533584.39	5533584.54	0.0089	0.0020
Venus	10438-07-24 04:48 G	5533665.49	5533665.70	5533665.92	0.0089	0.0022
Mercury	10438-07-30 23:16 G	5533672.32	5533672.47	5533672.61	0.0089	0.0013
Mercury	10438-10-27 00:57 G	5533760.40	5533760.54	5533760.69	0.0089	0.0006
Mercury	10439-01-23 02:52 G	5533848.47	5533848.62	5533848.77	0.0089	0.0002
Venus	10439-03-06 17:45 G	5533891.06	5533891.24	5533891.45	0.0089	0.0042
Mercury	10439-04-21 04:33 G	5533936.55	5533936.69	5533936.84	0.0089	0.0010
Mercury	10439-07-18 06:14 G	5534024.62	5534024.76	5534024.91	0.0089	0.0018
Mercury	10439-10-14 08:09 G	5534112.70	5534112.84	5534112.98	0.0089	0.0025
Venus	10439-10-18 07:11 G	5534116.65	5534116.80	5534116.97	0.0089	0.0061
Mercury	10440-01-10 09:50 G	5534200.78	5534200.91	5534201.05	0.0089	0.0032
Mercury	10440-04-07 11:31 G	5534288.86	5534288.98	5534289.12	0.0089	0.0040
Venus	10440-05-30 20:09 G	5534342.27	5534342.34	5534342.46	0.0089	0.0081
Mercury	10440-07-04 13:26 G	5534376.94	5534377.06	5534377.18	0.0089	0.0047

Mercury	10440-09-30 14:52 G	5534465.02	5534465.12	5534465.24	0.0089	0.0055
Mercury	10440-12-27 16:33 G	5534553.10	5534553.19	5534553.31	0.0089	0.0062
Mercury	10441-03-25 18:28 G	5534641.18	5534641.27	5534641.36	0.0089	0.0069
Mercury	10441-06-21 19:55 G	5534729.27	5534729.33	5534729.42	0.0089	0.0077
Mercury	10441-09-17 21:36 G	5534817.37	5534817.40	5534817.46	0.0089	0.0084
Moon	10470-04-19 17:16 G	5545258.13	5545258.22	5545258.38	0.0089	0.0079
Earth	10470-04-19 20:52 G	5545258.29	5545258.37	5545258.51	0.0089	0.0081 *
Earth	10471-04-22 08:38 G	5545625.71	5545625.86	5545626.04	0.0089	0.0068
Moon	10471-04-22 12:00 G	5545625.86	5545626.00	5545626.18	0.0089	0.0070 *
Moon	10472-04-23 16:48 G	5545993.01	5545993.20	5545993.42	0.0089	0.0053
Earth	10472-04-23 20:09 G	5545993.16	5545993.34	5545993.56	0.0089	0.0055 *
Earth	10473-04-26 07:26 G	5546360.59	5546360.81	5546361.04	0.0089	0.0043
Moon	10473-04-26 10:04 G	5546360.71	5546360.92	5546361.16	0.0089	0.0045 *
Moon	10474-04-28 17:02 G	5546727.99	5546728.21	5546728.46	0.0089	0.0028
Earth	10474-04-28 18:28 G	5546728.05	5546728.27	5546728.53	0.0089	0.0031 *
Earth	10475-05-01 05:45 G	5547095.50	5547095.74	5547096.00	0.0089	0.0018
Moon	10475-05-01 06:43 G	5547095.53	5547095.78	5547096.04	0.0089	0.0020 *
Earth	10476-05-02 16:48 G	5547462.95	5547463.20	5547463.46	0.0089	0.0005
Moon	10476-05-02 17:31 G	5547462.99	5547463.23	5547463.48	0.0089	0.0003 *
Moon	10477-05-05 01:40 G	5547830.31	5547830.57	5547830.84	0.0089	0.0006
Earth	10477-05-05 03:36 G	5547830.41	5547830.65	5547830.91	0.0089	0.0009 *
Earth	10478-05-07 14:23 G	5548197.86	5548198.10	5548198.36	0.0089	0.0020
Moon	10478-05-07 17:02 G	5548197.97	5548198.21	5548198.45	0.0089	0.0023 *
Moon	10479-05-09 21:36 G	5548565.17	5548565.40	5548565.66	0.0089	0.0030
Earth	10479-05-10 01:11 G	5548565.33	5548565.55	5548565.80	0.0089	0.0033 *
Earth	10480-05-11 12:00 G	5548932.79	5548933.00	5548933.23	0.0089	0.0045
Moon	10480-05-11 15:07 G	5548932.94	5548933.13	5548933.37	0.0089	0.0048 *
Moon	10481-05-13 19:11 G	5549300.12	5549300.30	5549300.52	0.0089	0.0054
Earth	10481-05-13 22:48 G	5549300.26	5549300.45	5549300.65	0.0089	0.0057 *
Earth	10482-05-16 09:07 G	5549667.75	5549667.88	5549668.06	0.0089	0.0070

Moon	10482-05-16 11:45 G	5549667.86	5549667.99	5549668.16	0.0089	0.0073 *
Moon	10483-05-18 18:57 G	5550035.19	5550035.29	5550035.41	0.0089	0.0079
Earth	10483-05-18 19:55 G	5550035.26	5550035.33	5550035.45	0.0089	0.0082 *
Mars	10496-09-22 23:02 G	5554911.41	5554911.46	5554911.58	0.0088	0.0086
Mars	10498-08-20 01:55 G	5555607.25	5555607.58	5555607.93	0.0088	0.0014
Venus	10516-12-26 06:14 G	5562309.70	5562309.76	5562309.86	0.0088	0.0082
Venus	10517-08-08 19:11 G	5562535.15	5562535.30	5562535.45	0.0088	0.0063
Venus	10518-03-22 07:26 G	5562760.64	5562760.81	5562761.02	0.0088	0.0045
Mercury	10518-05-22 17:16 G	5562822.20	5562822.22	5562822.27	0.0088	0.0086
Mercury	10518-08-18 19:40 G	5562910.26	5562910.32	5562910.41	0.0088	0.0078
Venus	10518-11-02 20:23 G	5562986.14	5562986.35	5562986.56	0.0088	0.0026
Mercury	10518-11-14 22:04 G	5562998.34	5562998.42	5562998.54	0.0088	0.0070
Mercury	10519-02-11 00:43 G	5563086.42	5563086.53	5563086.66	0.0088	0.0062
Mercury	10519-05-10 03:07 G	5563174.51	5563174.63	5563174.78	0.0088	0.0054
Venus	10519-06-16 09:07 G	5563211.67	5563211.88	5563212.10	0.0088	0.0008
Mercury	10519-08-06 06:00 G	5563262.60	5563262.75	5563262.89	0.0088	0.0045
Mercury	10519-11-02 08:23 G	5563350.70	5563350.85	5563351.01	0.0088	0.0037
Venus	10520-01-27 21:50 G	5563437.19	5563437.41	5563437.63	0.0088	0.0011
Mercury	10520-01-29 10:48 G	5563438.80	5563438.95	5563439.12	0.0088	0.0029
Mercury	10520-04-26 13:26 G	5563526.90	5563527.06	5563527.23	0.0088	0.0021
Mercury	10520-07-23 15:50 G	5563615.00	5563615.16	5563615.34	0.0088	0.0013
Venus	10520-09-09 10:04 G	5563662.73	5563662.92	5563663.14	0.0088	0.0030
Mercury	10520-10-19 18:28 G	5563703.10	5563703.27	5563703.44	0.0088	0.0005
Mercury	10521-01-15 21:07 G	5563791.21	5563791.38	5563791.55	0.0088	0.0004
Mercury	10521-04-13 23:45 G	5563879.32	5563879.49	5563879.66	0.0088	0.0013
Venus	10521-04-22 23:02 G	5563888.28	5563888.46	5563888.65	0.0088	0.0048
Mercury	10521-07-11 02:09 G	5563967.43	5563967.59	5563967.76	0.0088	0.0021
Mercury	10521-10-07 04:33 G	5564055.54	5564055.69	5564055.87	0.0088	0.0030
Venus	10521-12-04 11:16 G	5564113.85	5564113.97	5564114.14	0.0088	0.0067
Mercury	10522-01-03 07:26 G	5564143.66	5564143.81	5564143.97	0.0088	0.0038

Mercury	10522-04-01 09:50 G	5564231.78	5564231.91	5564232.07	0.0088	0.0047
Mercury	10522-06-28 12:28 G	5564319.90	5564320.02	5564320.17	0.0088	0.0055
Venus	10522-07-18 00:14 G	5564339.47	5564339.51	5564339.57	0.0088	0.0085
Mercury	10522-09-24 15:07 G	5564408.03	5564408.13	5564408.26	0.0088	0.0064
Mercury	10522-12-21 18:00 G	5564496.16	5564496.25	5564496.35	0.0088	0.0072
Mercury	10523-03-19 20:23 G	5564584.30	5564584.35	5564584.43	0.0088	0.0081
Earth	10552-10-17 10:19 G	5575388.89	5575388.93	5575389.03	0.0088	0.0085
Moon	10553-10-19 20:52 G	5575756.24	5575756.37	5575756.54	0.0088	0.0069
Earth	10553-10-19 22:33 G	5575756.32	5575756.44	5575756.60	0.0088	0.0073 *
Earth	10554-10-22 10:19 G	5576123.77	5576123.93	5576124.14	0.0088	0.0061
Moon	10554-10-22 10:04 G	5576123.77	5576123.92	5576124.13	0.0088	0.0066 *
Earth	10555-10-24 22:19 G	5576491.24	5576491.43	5576491.67	0.0088	0.0049
Moon	10555-10-24 23:31 G	5576491.28	5576491.48	5576491.71	0.0088	0.0045 *
Moon	10556-10-26 08:38 G	5576858.64	5576858.86	5576859.11	0.0088	0.0041
Earth	10556-10-26 10:48 G	5576858.72	5576858.95	5576859.20	0.0088	0.0037 *
Earth	10557-10-28 22:48 G	5577226.21	5577226.45	5577226.71	0.0088	0.0025
Moon	10557-10-29 02:09 G	5577226.35	5577226.59	5577226.84	0.0088	0.0020 *
Moon	10558-10-31 07:55 G	5577593.58	5577593.83	5577594.09	0.0088	0.0016
Earth	10558-10-31 11:16 G	5577593.72	5577593.97	5577594.24	0.0088	0.0012 *
Earth	10559-11-02 23:31 G	5577961.22	5577961.48	5577961.75	0.0088	0.0002
Moon	10559-11-03 03:21 G	5577961.38	5577961.64	5577961.90	0.0088	0.0004 *
Moon	10560-11-04 08:52 G	5578328.63	5578328.87	5578329.14	0.0088	0.0010
Earth	10560-11-04 12:00 G	5578328.75	5578329.00	5578329.27	0.0088	0.0013 *
Earth	10561-11-07 00:28 G	5578696.28	5578696.52	5578696.78	0.0088	0.0025
Moon	10561-11-07 03:07 G	5578696.39	5578696.63	5578696.90	0.0088	0.0028 *
Moon	10562-11-09 11:16 G	5579063.74	5579063.97	5579064.21	0.0088	0.0035
Earth	10562-11-09 13:11 G	5579063.82	5579064.05	5579064.29	0.0088	0.0038 *
Earth	10563-11-12 01:11 G	5579431.36	5579431.55	5579431.79	0.0088	0.0051
Moon	10563-11-12 01:26 G	5579431.37	5579431.56	5579431.80	0.0088	0.0054 *
Earth	10564-11-13 13:55 G	5579798.92	5579799.08	5579799.29	0.0088	0.0063



Moon	10564-11-13 14:52 G	5579798.95	5579799.12	5579799.31	0.0088	0.0060 *
Moon	10565-11-16 00:28 G	5580166.42	5580166.52	5580166.68	0.0088	0.0078
Earth	10565-11-16 02:23 G	5580166.49	5580166.60	5580166.77	0.0088	0.0075 *
Earth	10566-11-18 15:07 G	5580534.10	5580534.13	5580534.20	0.0088	0.0087
Moon	10566-11-18 18:00 G	5580534.20	5580534.25	5580534.36	0.0088	0.0084 *
Mars	10580-07-07 07:40 G	5585513.59	5585513.82	5585514.08	0.0089	0.0047
Mars	10582-06-01 01:40 G	5586207.32	5586207.57	5586207.85	0.0089	0.0038
Venus	10599-09-24 18:43 G	5592532.23	5592532.28	5592532.35	0.0089	0.0086
Venus	10600-05-08 07:55 G	5592757.70	5592757.83	5592758.00	0.0089	0.0067
Mercury	10600-11-29 03:50 G	5592962.64	5592962.66	5592962.68	0.0089	0.0088
Venus	10600-12-19 21:36 G	5592983.22	5592983.40	5592983.60	0.0089	0.0047
Mercury	10601-02-25 05:16 G	5593050.67	5593050.72	5593050.80	0.0089	0.0081
Mercury	10601-05-24 07:26 G	5593138.73	5593138.81	5593138.90	0.0089	0.0072
Venus	10601-08-02 11:02 G	5593208.76	5593208.96	5593209.18	0.0089	0.0027
Mercury	10601-08-20 09:21 G	5593226.79	5593226.89	5593227.00	0.0089	0.0065
Mercury	10601-11-16 11:16 G	5593314.86	5593314.97	5593315.09	0.0089	0.0057
Mercury	10602-02-12 12:57 G	5593402.93	5593403.04	5593403.17	0.0089	0.0049
Venus	10602-03-16 00:28 G	5593434.30	5593434.52	5593434.74	0.0089	0.0008
Mercury	10602-05-11 14:52 G	5593491.00	5593491.12	5593491.26	0.0089	0.0042
Mercury	10602-08-07 16:48 G	5593579.07	5593579.20	5593579.34	0.0089	0.0034
Venus	10602-10-27 13:55 G	5593659.86	5593660.08	5593660.30	0.0089	0.0012
Mercury	10602-11-03 18:28 G	5593667.14	5593667.27	5593667.42	0.0089	0.0027
Mercury	10603-01-30 20:23 G	5593755.21	5593755.35	5593755.50	0.0089	0.0019
Mercury	10603-04-28 22:19 G	5593843.29	5593843.43	5593843.58	0.0089	0.0011
Venus	10603-06-10 03:07 G	5593885.43	5593885.63	5593885.84	0.0089	0.0032
Mercury	10603-07-26 00:14 G	5593931.36	5593931.51	5593931.65	0.0089	0.0004
Mercury	10603-10-22 01:55 G	5594019.44	5594019.58	5594019.73	0.0089	0.0004
Mercury	10604-01-18 03:50 G	5594107.51	5594107.66	5594107.80	0.0089	0.0012
Venus	10604-01-21 16:19 G	5594111.01	5594111.18	5594111.37	0.0089	0.0051
Mercury	10604-04-15 05:31 G	5594195.59	5594195.73	5594195.87	0.0089	0.0019

Mercury	10604-07-12 07:11 G	5594283.67	5594283.80	5594283.94	0.0089	0.0027
Venus	10604-09-03 05:45 G	5594336.61	5594336.74	5594336.88	0.0089	0.0071
Mercury	10604-10-08 08:52 G	5594371.74	5594371.87	5594372.01	0.0089	0.0034
Mercury	10605-01-04 10:48 G	5594459.82	5594459.95	5594460.08	0.0089	0.0041
Mercury	10605-04-02 12:28 G	5594547.90	5594548.02	5594548.14	0.0089	0.0049
Mercury	10605-06-29 14:09 G	5594635.98	5594636.09	5594636.21	0.0089	0.0056
Mercury	10605-09-25 15:50 G	5594724.07	5594724.16	5594724.27	0.0089	0.0064
Mercury	10605-12-22 17:45 G	5594812.15	5594812.24	5594812.33	0.0089	0.0071
Mercury	10606-03-20 19:11 G	5594900.24	5594900.30	5594900.38	0.0089	0.0078
Mercury	10606-06-16 20:52 G	5594988.34	5594988.37	5594988.42	0.0089	0.0086
Earth	10634-04-21 04:19 G	5605158.64	5605158.68	5605158.78	0.0089	0.0086
Moon	10634-04-21 08:23 G	5605158.76	5605158.85	5605158.97	0.0089	0.0081 *
Moon	10635-04-23 13:26 G	5605525.95	5605526.06	5605526.19	0.0089	0.0078
Earth	10635-04-23 15:50 G	5605526.05	5605526.16	5605526.34	0.0089	0.0074 *
Earth	10636-04-25 03:50 G	5605893.47	5605893.66	5605893.85	0.0089	0.0061
Moon	10636-04-25 05:45 G	5605893.56	5605893.74	5605893.96	0.0089	0.0057 *
Moon	10637-04-27 13:55 G	5606260.88	5606261.08	5606261.28	0.0089	0.0053
Earth	10637-04-27 15:07 G	5606260.92	5606261.13	5606261.35	0.0089	0.0048 *
Moon	10638-04-30 01:55 G	5606628.35	5606628.58	5606628.84	0.0089	0.0032
Earth	10638-04-30 02:23 G	5606628.38	5606628.60	5606628.84	0.0089	0.0036 *
Earth	10639-05-02 13:55 G	5606995.83	5606996.08	5606996.32	0.0089	0.0024
Moon	10639-05-02 14:52 G	5606995.89	5606996.12	5606996.36	0.0089	0.0027 *
Moon	10640-05-03 22:33 G	5607363.19	5607363.44	5607363.71	0.0089	0.0007
Earth	10640-05-04 00:57 G	5607363.29	5607363.54	5607363.80	0.0089	0.0011 *
Earth	10641-05-06 12:00 G	5607730.74	5607731.00	5607731.25	0.0089	0.0001
Moon	10641-05-06 15:07 G	5607730.88	5607731.13	5607731.38	0.0089	0.0003 *
Moon	10642-05-08 19:26 G	5608098.07	5608098.31	5608098.57	0.0089	0.0017
Earth	10642-05-08 23:02 G	5608098.21	5608098.46	5608098.71	0.0089	0.0013 *
Earth	10643-05-11 09:21 G	5608465.67	5608465.89	5608466.15	0.0089	0.0026
Moon	10643-05-11 13:11 G	5608465.81	5608466.05	5608466.31	0.0089	0.0022 *

Moon	10644-05-12 17:31 G	5608833.03	5608833.23	5608833.47	0.0089	0.0042
Earth	10644-05-12 20:09 G	5608833.13	5608833.34	5608833.59	0.0089	0.0038 *
Earth	10645-05-15 06:57 G	5609200.60	5609200.79	5609201.02	0.0089	0.0050
Moon	10645-05-15 09:07 G	5609200.68	5609200.88	5609201.13	0.0089	0.0047 *
Moon	10646-05-17 16:33 G	5609568.05	5609568.19	5609568.38	0.0089	0.0066
Earth	10646-05-17 17:45 G	5609568.07	5609568.24	5609568.44	0.0089	0.0062 *
Moon	10647-05-20 03:36 G	5609935.51	5609935.65	5609935.84	0.0089	0.0070
Earth	10647-05-20 04:19 G	5609935.56	5609935.68	5609935.84	0.0089	0.0074 *
Earth	10648-05-21 14:52 G	5610303.08	5610303.12	5610303.21	0.0089	0.0086
Mars	10662-04-04 10:48 G	5615368.64	5615368.95	5615369.27	0.0088	0.0033
Mars	10664-02-29 12:28 G	5616064.84	5616065.02	5616065.29	0.0088	0.0067
Venus	10681-11-11 04:04 G	5622529.57	5622529.67	5622529.82	0.0088	0.0073
Venus	10682-06-24 17:02 G	5622755.05	5622755.21	5622755.40	0.0088	0.0054
Venus	10683-02-05 05:31 G	5622980.55	5622980.73	5622980.95	0.0088	0.0036
Mercury	10683-02-17 15:50 G	5622993.13	5622993.16	5622993.22	0.0088	0.0084
Mercury	10683-05-16 18:14 G	5623081.19	5623081.26	5623081.36	0.0088	0.0076
Mercury	10683-08-12 20:38 G	5623169.27	5623169.36	5623169.48	0.0088	0.0068
Venus	10683-09-18 18:28 G	5623206.06	5623206.27	5623206.49	0.0088	0.0017
Mercury	10683-11-08 23:02 G	5623257.35	5623257.46	5623257.60	0.0088	0.0060
Mercury	10684-02-05 01:40 G	5623345.44	5623345.57	5623345.72	0.0088	0.0052
Venus	10684-05-01 07:11 G	5623431.58	5623431.80	5623432.02	0.0088	0.0002
Mercury	10684-05-03 04:04 G	5623433.54	5623433.67	5623433.83	0.0088	0.0044
Mercury	10684-07-30 06:43 G	5623521.63	5623521.78	5623521.94	0.0088	0.0035
Mercury	10684-10-26 09:21 G	5623609.73	5623609.89	5623610.05	0.0088	0.0027
Venus	10684-12-12 19:55 G	5623657.11	5623657.33	5623657.54	0.0088	0.0020
Mercury	10685-01-22 11:45 G	5623697.83	5623697.99	5623698.16	0.0088	0.0019
Mercury	10685-04-20 14:23 G	5623785.93	5623786.10	5623786.27	0.0088	0.0011
Mercury	10685-07-17 16:48 G	5623874.03	5623874.20	5623874.38	0.0088	0.0003
Venus	10685-07-26 08:09 G	5623882.65	5623882.84	5623883.05	0.0088	0.0039
Mercury	10685-10-13 19:26 G	5623962.14	5623962.31	5623962.48	0.0088	0.0006

Mercury	10686-01-09 22:04 G	5624050.25	5624050.42	5624050.59	0.0088	0.0014
Venus	10686-03-08 20:23 G	5624108.21	5624108.35	5624108.54	0.0088	0.0058
Mercury	10686-04-08 00:28 G	5624138.36	5624138.52	5624138.69	0.0088	0.0023
Mercury	10686-07-05 03:07 G	5624226.47	5624226.63	5624226.79	0.0088	0.0031
Mercury	10686-10-01 05:31 G	5624314.59	5624314.73	5624314.89	0.0088	0.0040
Venus	10686-10-20 09:21 G	5624333.79	5624333.89	5624334.01	0.0088	0.0076
Mercury	10686-12-28 08:09 G	5624402.71	5624402.84	5624402.99	0.0088	0.0048
Mercury	10687-03-26 10:33 G	5624490.83	5624490.94	5624491.09	0.0088	0.0057
Mercury	10687-06-22 13:26 G	5624578.95	5624579.06	5624579.18	0.0088	0.0065
Mercury	10687-09-18 15:50 G	5624667.09	5624667.16	5624667.27	0.0088	0.0074
Mercury	10687-12-15 18:43 G	5624755.23	5624755.28	5624755.35	0.0088	0.0082
Earth	10717-10-21 04:04 G	5635656.57	5635656.67	5635656.81	0.0088	0.0078
Moon	10717-10-21 04:04 G	5635656.57	5635656.67	5635656.80	0.0088	0.0079 *
Earth	10718-10-23 16:19 G	5636024.02	5636024.18	5636024.36	0.0088	0.0066
Moon	10718-10-23 18:00 G	5636024.10	5636024.25	5636024.43	0.0088	0.0065 *
Moon	10719-10-26 01:26 G	5636391.36	5636391.56	5636391.78	0.0088	0.0055
Earth	10719-10-26 04:19 G	5636391.49	5636391.68	5636391.89	0.0088	0.0055 *
Earth	10720-10-27 16:04 G	5636758.96	5636759.17	5636759.42	0.0088	0.0043
Moon	10720-10-27 19:40 G	5636759.09	5636759.32	5636759.55	0.0088	0.0041 *
Moon	10721-10-30 00:28 G	5637126.29	5637126.52	5637126.78	0.0088	0.0033
Earth	10721-10-30 04:04 G	5637126.45	5637126.67	5637126.94	0.0088	0.0032 *
Earth	10722-11-01 16:33 G	5637493.93	5637494.19	5637494.44	0.0088	0.0019
Moon	10722-11-01 19:40 G	5637494.07	5637494.32	5637494.59	0.0088	0.0017 *
Moon	10723-11-04 01:40 G	5637861.32	5637861.57	5637861.83	0.0088	0.0009
Earth	10723-11-04 04:48 G	5637861.44	5637861.70	5637861.96	0.0088	0.0007 *
Earth	10724-11-05 17:02 G	5638228.95	5638229.21	5638229.47	0.0088	0.0006
Moon	10724-11-05 18:57 G	5638229.03	5638229.29	5638229.56	0.0088	0.0008 *
Moon	10725-11-08 04:33 G	5638596.45	5638596.69	5638596.94	0.0088	0.0016
Earth	10725-11-08 05:02 G	5638596.47	5638596.71	5638596.98	0.0088	0.0018 *
Moon	10726-11-10 17:31 G	5638963.99	5638964.23	5638964.49	0.0088	0.0033

Earth	10726-11-10 17:31 G	5638964.00	5638964.23	5638964.49	0.0088	0.0030 *
Earth	10727-11-13 06:00 G	5639331.54	5639331.75	5639332.00	0.0088	0.0042
Moon	10727-11-13 07:40 G	5639331.62	5639331.82	5639332.07	0.0088	0.0040 *
Moon	10728-11-14 15:50 G	5639698.98	5639699.16	5639699.39	0.0088	0.0057
Earth	10728-11-14 18:28 G	5639699.09	5639699.27	5639699.50	0.0088	0.0055 *
Earth	10729-11-17 06:57 G	5640066.64	5640066.79	5640066.99	0.0088	0.0067
Moon	10729-11-17 10:04 G	5640066.77	5640066.92	5640067.13	0.0088	0.0064 *
Moon	10730-11-19 16:04 G	5640434.08	5640434.17	5640434.28	0.0088	0.0081
Earth	10730-11-19 19:26 G	5640434.22	5640434.31	5640434.46	0.0088	0.0079 *
Moon	10731-11-22 11:45 G	5640801.96	5640801.99	5640802.05	0.0088	0.0087
Mars	10744-02-22 11:31 G	5645276.94	5645276.98	5645277.04	0.0089	0.0087
Mars	10746-01-16 06:28 G	5645970.48	5645970.77	5645971.06	0.0089	0.0002
Mars	10747-12-11 00:43 G	5646664.43	5646664.53	5646664.65	0.0089	0.0082
Jupiter	10752-12-17 18:43 G	5648497.90	5648498.28	5648498.69	0.0089	0.0058
Venus	10764-08-10 16:19 G	5652752.08	5652752.18	5652752.30	0.0089	0.0077
Venus	10765-03-24 05:31 G	5652977.57	5652977.73	5652977.91	0.0089	0.0057
Mercury	10765-08-27 02:09 G	5653133.57	5653133.59	5653133.64	0.0089	0.0087
Venus	10765-11-04 19:11 G	5653203.11	5653203.30	5653203.50	0.0089	0.0038
Mercury	10765-11-23 04:04 G	5653221.62	5653221.67	5653221.75	0.0089	0.0080
Mercury	10766-02-19 06:00 G	5653309.68	5653309.75	5653309.85	0.0089	0.0072
Mercury	10766-05-18 08:09 G	5653397.74	5653397.84	5653397.95	0.0089	0.0064
Venus	10766-06-18 08:23 G	5653428.65	5653428.85	5653429.08	0.0089	0.0019
Mercury	10766-08-14 10:04 G	5653485.81	5653485.92	5653486.04	0.0089	0.0056
Mercury	10766-11-10 11:45 G	5653573.87	5653573.99	5653574.12	0.0089	0.0048
Venus	10767-01-29 22:04 G	5653654.20	5653654.42	5653654.64	0.0089	0.0002
Mercury	10767-02-06 13:40 G	5653661.94	5653662.07	5653662.21	0.0089	0.0041
Mercury	10767-05-05 15:36 G	5653750.02	5653750.15	5653750.29	0.0089	0.0033
Mercury	10767-08-01 17:31 G	5653838.09	5653838.23	5653838.37	0.0089	0.0025
Venus	10767-09-12 11:16 G	5653879.76	5653879.97	5653880.19	0.0089	0.0021
Mercury	10767-10-28 19:26 G	5653926.16	5653926.31	5653926.45	0.0089	0.0017

Mercury	10768-01-24 21:07 G	5654014.24	5654014.38	5654014.53	0.0089	0.0010
Mercury	10768-04-21 23:02 G	5654102.31	5654102.46	5654102.61	0.0089	0.0002
Venus	10768-04-25 00:14 G	5654105.33	5654105.51	5654105.73	0.0089	0.0042
Mercury	10768-07-19 00:43 G	5654190.39	5654190.53	5654190.68	0.0089	0.0006
Mercury	10768-10-15 02:38 G	5654278.46	5654278.61	5654278.75	0.0089	0.0013
Venus	10768-12-06 13:55 G	5654330.93	5654331.08	5654331.25	0.0089	0.0061
Mercury	10769-01-11 04:19 G	5654366.54	5654366.68	5654366.83	0.0089	0.0020
Mercury	10769-04-09 06:14 G	5654454.62	5654454.76	5654454.90	0.0089	0.0028
Mercury	10769-07-06 07:40 G	5654542.70	5654542.82	5654542.96	0.0089	0.0036
Venus	10769-07-20 02:52 G	5654556.55	5654556.62	5654556.74	0.0089	0.0081
Mercury	10769-10-02 09:36 G	5654630.78	5654630.90	5654631.03	0.0089	0.0043
Mercury	10769-12-29 11:16 G	5654718.86	5654718.97	5654719.10	0.0089	0.0050
Mercury	10770-03-27 12:57 G	5654806.94	5654807.04	5654807.16	0.0089	0.0058
Mercury	10770-06-23 14:52 G	5654895.02	5654895.12	5654895.22	0.0089	0.0065
Mercury	10770-09-19 16:19 G	5654983.11	5654983.18	5654983.28	0.0089	0.0073
Mercury	10770-12-16 18:00 G	5655071.20	5655071.25	5655071.33	0.0089	0.0080
Mercury	10771-03-14 19:55 G	5655159.30	5655159.33	5655159.37	0.0089	0.0087
Earth	10799-04-23 22:48 G	5665426.35	5665426.45	5665426.59	0.0089	0.0079
Moon	10799-04-24 00:28 G	5665426.41	5665426.52	5665426.66	0.0089	0.0078 *
Moon	10800-04-25 09:36 G	5665793.76	5665793.90	5665794.08	0.0089	0.0068
Earth	10800-04-25 10:19 G	5665793.77	5665793.93	5665794.11	0.0089	0.0066 *
Moon	10801-04-27 20:52 G	5666161.18	5666161.37	5666161.60	0.0089	0.0053
Earth	10801-04-27 21:36 G	5666161.21	5666161.40	5666161.61	0.0089	0.0054 *
Earth	10802-04-30 08:52 G	5666528.66	5666528.87	5666529.11	0.0089	0.0042
Moon	10802-04-30 10:48 G	5666528.75	5666528.95	5666529.18	0.0089	0.0044 *
Moon	10803-05-02 17:31 G	5666895.99	5666896.23	5666896.49	0.0089	0.0030
Earth	10803-05-02 20:23 G	5666896.12	5666896.35	5666896.60	0.0089	0.0030 *
Earth	10804-05-04 07:26 G	5667263.57	5667263.81	5667264.07	0.0089	0.0018
Moon	10804-05-04 10:48 G	5667263.71	5667263.95	5667264.20	0.0089	0.0020 *
Moon	10805-05-06 15:21 G	5667630.89	5667631.14	5667631.39	0.0089	0.0005

Earth	10805-05-06 18:57 G	5667631.04	5667631.29	5667631.55	0.0089	0.0006 *
Earth	10806-05-09 06:00 G	5667998.50	5667998.75	5667999.01	0.0089	0.0006
Moon	10806-05-09 09:07 G	5667998.63	5667998.88	5667999.14	0.0089	0.0005 *
Moon	10807-05-11 13:55 G	5668365.85	5668366.08	5668366.34	0.0089	0.0021
Earth	10807-05-11 17:02 G	5668365.96	5668366.21	5668366.46	0.0089	0.0018 *
Earth	10808-05-13 03:36 G	5668733.42	5668733.65	5668733.90	0.0089	0.0031
Moon	10808-05-13 05:02 G	5668733.47	5668733.71	5668733.97	0.0089	0.0029 *
Moon	10809-05-15 14:09 G	5669100.89	5669101.09	5669101.31	0.0089	0.0044
Earth	10809-05-15 14:38 G	5669100.89	5669101.11	5669101.34	0.0089	0.0042 *
Moon	10810-05-18 00:28 G	5669468.32	5669468.52	5669468.75	0.0089	0.0052
Earth	10810-05-18 01:26 G	5669468.36	5669468.56	5669468.77	0.0089	0.0054 *
Earth	10811-05-20 12:00 G	5669835.84	5669836.00	5669836.18	0.0089	0.0066
Moon	10811-05-20 14:09 G	5669835.95	5669836.09	5669836.27	0.0089	0.0068 *
Moon	10812-05-21 19:40 G	5670203.20	5670203.32	5670203.47	0.0089	0.0076
Earth	10812-05-21 22:19 G	5670203.34	5670203.43	5670203.58	0.0089	0.0078 *
Mars	10825-11-16 19:40 G	5675130.19	5675130.32	5675130.49	0.0088	0.0079
Mars	10827-10-13 21:07 G	5675826.06	5675826.38	5675826.72	0.0088	0.0020
Venus	10846-02-13 13:26 G	5682523.99	5682524.06	5682524.14	0.0088	0.0082
Venus	10846-09-27 01:40 G	5682749.44	5682749.57	5682749.74	0.0088	0.0064
Venus	10847-05-10 14:38 G	5682974.94	5682975.11	5682975.31	0.0088	0.0045
Mercury	10847-11-15 14:09 G	5683164.05	5683164.09	5683164.16	0.0088	0.0082
Venus	10847-12-22 03:21 G	5683200.44	5683200.64	5683200.86	0.0088	0.0027
Mercury	10848-02-11 16:33 G	5683252.11	5683252.19	5683252.29	0.0088	0.0074
Mercury	10848-05-09 19:11 G	5683340.19	5683340.30	5683340.41	0.0088	0.0066
Venus	10848-08-03 16:04 G	5683425.95	5683426.17	5683426.39	0.0088	0.0008
Mercury	10848-08-05 21:36 G	5683428.28	5683428.40	5683428.53	0.0088	0.0058
Mercury	10848-11-02 00:00 G	5683516.37	5683516.50	5683516.64	0.0088	0.0050
Mercury	10849-01-29 02:23 G	5683604.46	5683604.60	5683604.76	0.0088	0.0042
Venus	10849-03-17 04:33 G	5683651.48	5683651.69	5683651.91	0.0088	0.0011
Mercury	10849-04-27 04:48 G	5683692.56	5683692.70	5683692.87	0.0088	0.0034

Mercury	10849-07-24 07:26 G	5683780.65	5683780.81	5683780.98	0.0088	0.0026
Mercury	10849-10-20 09:50 G	5683868.75	5683868.91	5683869.09	0.0088	0.0018
Venus	10849-10-28 17:16 G	5683877.01	5683877.22	5683877.43	0.0088	0.0029
Mercury	10850-01-16 12:28 G	5683956.85	5683957.02	5683957.19	0.0088	0.0009
Mercury	10850-04-14 15:07 G	5684044.96	5684045.13	5684045.30	0.0088	0.0001
Venus	10850-06-11 05:45 G	5684102.57	5684102.74	5684102.94	0.0088	0.0048
Mercury	10850-07-11 17:31 G	5684133.06	5684133.23	5684133.40	0.0088	0.0007
Mercury	10850-10-07 20:09 G	5684221.17	5684221.34	5684221.51	0.0088	0.0016
Mercury	10851-01-03 22:33 G	5684309.28	5684309.44	5684309.61	0.0088	0.0024
Venus	10851-01-22 18:00 G	5684328.13	5684328.25	5684328.42	0.0088	0.0067
Mercury	10851-04-02 00:57 G	5684397.39	5684397.54	5684397.71	0.0088	0.0033
Mercury	10851-06-29 03:36 G	5684485.51	5684485.65	5684485.81	0.0088	0.0041
Venus	10851-09-05 06:43 G	5684553.75	5684553.78	5684553.85	0.0088	0.0085
Mercury	10851-09-25 06:28 G	5684573.63	5684573.77	5684573.91	0.0088	0.0049
Mercury	10851-12-22 08:52 G	5684661.75	5684661.87	5684662.01	0.0088	0.0058
Mercury	10852-03-19 11:31 G	5684749.88	5684749.98	5684750.10	0.0088	0.0066
Mercury	10852-06-15 13:55 G	5684838.01	5684838.08	5684838.19	0.0088	0.0075
Mercury	10852-09-11 17:02 G	5684926.16	5684926.21	5684926.26	0.0088	0.0083
Earth	10881-10-20 08:38 G	5695556.80	5695556.86	5695556.97	0.0088	0.0083
Moon	10881-10-20 10:48 G	5695556.95	5695556.95	5695556.99	0.0088	0.0088 *
Moon	10882-10-22 17:16 G	5695924.08	5695924.22	5695924.42	0.0088	0.0067
Earth	10882-10-22 20:38 G	5695924.23	5695924.36	5695924.53	0.0088	0.0072 *
Earth	10883-10-25 08:38 G	5696291.69	5696291.86	5696292.07	0.0088	0.0061
Moon	10883-10-25 12:00 G	5696291.86	5696292.00	5696292.21	0.0088	0.0066 *
Moon	10884-10-26 17:31 G	5696659.02	5696659.23	5696659.46	0.0088	0.0044
Earth	10884-10-26 20:38 G	5696659.17	5696659.36	5696659.60	0.0088	0.0049 *
Earth	10885-10-29 08:38 G	5697026.64	5697026.86	5697027.11	0.0088	0.0037
Moon	10885-10-29 12:14 G	5697026.79	5697027.01	5697027.25	0.0088	0.0041 *
Moon	10886-10-31 18:57 G	5697394.05	5697394.29	5697394.55	0.0088	0.0021
Earth	10886-10-31 20:52 G	5697394.13	5697394.37	5697394.63	0.0088	0.0026 *



Earth	10887-11-03 09:07 G	5697761.63	5697761.88	5697762.15	0.0088	0.0013
Moon	10887-11-03 10:33 G	5697761.69	5697761.94	5697762.22	0.0088	0.0018 *
Earth	10888-11-04 21:21 G	5698129.13	5698129.39	5698129.65	0.0088	0.0002
Moon	10888-11-04 21:21 G	5698129.14	5698129.39	5698129.64	0.0088	0.0003 *
Moon	10889-11-07 08:09 G	5698496.57	5698496.84	5698497.11	0.0088	0.0007
Earth	10889-11-07 09:36 G	5698496.65	5698496.90	5698497.16	0.0088	0.0011 *
Earth	10890-11-09 21:50 G	5698864.16	5698864.41	5698864.67	0.0088	0.0023
Moon	10890-11-09 23:45 G	5698864.26	5698864.49	5698864.74	0.0088	0.0027 *
Moon	10891-11-12 06:57 G	5699231.55	5699231.79	5699232.05	0.0088	0.0030
Earth	10891-11-12 10:19 G	5699231.70	5699231.93	5699232.18	0.0088	0.0035 *
Earth	10892-11-13 22:33 G	5699599.24	5699599.44	5699599.68	0.0088	0.0047
Moon	10892-11-14 02:23 G	5699599.39	5699599.60	5699599.82	0.0088	0.0051 *
Moon	10893-11-16 07:40 G	5699966.63	5699966.82	5699967.04	0.0088	0.0055
Earth	10893-11-16 11:02 G	5699966.79	5699966.96	5699967.18	0.0088	0.0059 *
Earth	10894-11-18 23:31 G	5700334.35	5700334.48	5700334.67	0.0088	0.0071
Moon	10894-11-19 02:52 G	5700334.51	5700334.62	5700334.79	0.0088	0.0075 *
Moon	10895-11-21 10:04 G	5700701.83	5700701.92	5700702.07	0.0088	0.0079
Earth	10895-11-21 12:43 G	5700701.94	5700702.03	5700702.14	0.0088	0.0082 *
Mars	10909-09-01 09:50 G	5705733.66	5705733.91	5705734.17	0.0089	0.0043
Mars	10911-07-27 03:07 G	5706427.39	5706427.63	5706427.91	0.0089	0.0042
Jupiter	10919-02-13 00:57 G	5709185.03	5709185.54	5709186.07	0.0089	0.0003
Venus	10928-11-13 00:00 G	5712746.48	5712746.50	5712746.55	0.0089	0.0088
Venus	10929-06-26 13:11 G	5712971.93	5712972.05	5712972.21	0.0089	0.0069
Venus	10930-02-07 02:52 G	5713197.44	5713197.62	5713197.81	0.0089	0.0049
Mercury	10930-05-25 00:57 G	5713304.51	5713304.54	5713304.58	0.0089	0.0086
Mercury	10930-08-21 02:52 G	5713392.56	5713392.62	5713392.70	0.0089	0.0079
Venus	10930-09-20 16:04 G	5713422.97	5713423.17	5713423.39	0.0089	0.0029
Mercury	10930-11-17 04:48 G	5713480.62	5713480.70	5713480.80	0.0089	0.0071
Mercury	10931-02-13 06:28 G	5713568.68	5713568.77	5713568.89	0.0089	0.0064
Venus	10931-05-04 05:31 G	5713648.52	5713648.73	5713648.96	0.0089	0.0010

Mercury	10931-05-12 08:23 G	5713656.75	5713656.85	5713656.98	0.0089	0.0056
Mercury	10931-08-08 10:33 G	5713744.82	5713744.94	5713745.07	0.0089	0.0047
Mercury	10931-11-04 12:28 G	5713832.89	5713833.02	5713833.15	0.0089	0.0040
Venus	10931-12-15 19:11 G	5713874.08	5713874.30	5713874.52	0.0089	0.0010
Mercury	10932-01-31 14:09 G	5713920.96	5713921.09	5713921.24	0.0089	0.0032
Mercury	10932-04-28 16:04 G	5714009.03	5714009.17	5714009.32	0.0089	0.0025
Mercury	10932-07-25 18:00 G	5714097.11	5714097.25	5714097.40	0.0089	0.0017
Venus	10932-07-28 08:23 G	5714099.65	5714099.85	5714100.07	0.0089	0.0030
Mercury	10932-10-21 19:55 G	5714185.18	5714185.33	5714185.48	0.0089	0.0009
Mercury	10933-01-17 21:50 G	5714273.26	5714273.41	5714273.55	0.0089	0.0003
Venus	10933-03-10 21:50 G	5714325.23	5714325.41	5714325.60	0.0089	0.0050
Mercury	10933-04-15 23:31 G	5714361.33	5714361.48	5714361.63	0.0089	0.0006
Mercury	10933-07-13 01:26 G	5714449.41	5714449.56	5714449.70	0.0089	0.0014
Mercury	10933-10-09 03:07 G	5714537.49	5714537.63	5714537.77	0.0089	0.0021
Venus	10933-10-22 11:02 G	5714550.84	5714550.96	5714551.11	0.0089	0.0070
Mercury	10934-01-05 04:48 G	5714625.57	5714625.70	5714625.84	0.0089	0.0029
Mercury	10934-04-03 06:28 G	5714713.65	5714713.77	5714713.91	0.0089	0.0037
Venus	10934-06-05 00:14 G	5714776.51	5714776.51	5714776.55	0.0089	0.0089
Mercury	10934-06-30 08:23 G	5714801.73	5714801.85	5714801.98	0.0089	0.0044
Mercury	10934-09-26 09:50 G	5714889.81	5714889.91	5714890.05	0.0089	0.0052
Mercury	10934-12-23 11:45 G	5714977.89	5714977.99	5714978.11	0.0089	0.0059
Mercury	10935-03-21 13:40 G	5715065.98	5715066.07	5715066.17	0.0089	0.0066
Mercury	10935-06-17 15:07 G	5715154.06	5715154.13	5715154.23	0.0089	0.0074
Mercury	10935-09-13 16:48 G	5715242.16	5715242.20	5715242.28	0.0089	0.0081
Mercury	10935-12-10 18:43 G	5715330.26	5715330.28	5715330.31	0.0089	0.0088
Moon	10963-04-24 05:02 G	5725326.62	5725326.71	5725326.85	0.0089	0.0080
Earth	10963-04-24 05:02 G	5725326.64	5725326.71	5725326.82	0.0089	0.0084 *
Moon	10964-04-25 14:23 G	5725694.00	5725694.10	5725694.27	0.0089	0.0077
Earth	10964-04-25 16:48 G	5725694.05	5725694.20	5725694.35	0.0089	0.0072 *
Earth	10965-04-28 03:36 G	5726061.49	5726061.65	5726061.86	0.0089	0.0061

Moon	10965-04-28 06:14 G	5726061.57	5726061.76	5726061.96	0.0089	0.0056 *
Moon	10966-04-30 11:45 G	5726428.80	5726428.99	5726429.22	0.0089	0.0053
Earth	10966-04-30 15:21 G	5726428.94	5726429.14	5726429.37	0.0089	0.0048 *
Earth	10967-05-03 02:38 G	5726796.38	5726796.61	5726796.85	0.0089	0.0036
Moon	10967-05-03 05:45 G	5726796.52	5726796.74	5726797.00	0.0089	0.0032 *
Moon	10968-05-04 10:19 G	5727163.70	5727163.93	5727164.18	0.0089	0.0029
Earth	10968-05-04 13:55 G	5727163.84	5727164.08	5727164.34	0.0089	0.0025 *
Earth	10969-05-07 01:11 G	5727531.30	5727531.55	5727531.81	0.0089	0.0013
Moon	10969-05-07 04:19 G	5727531.43	5727531.68	5727531.94	0.0089	0.0008 *
Moon	10970-05-09 10:48 G	5727898.70	5727898.95	5727899.20	0.0089	0.0005
Earth	10970-05-09 12:28 G	5727898.77	5727899.02	5727899.28	0.0089	0.0002 *
Earth	10971-05-11 23:45 G	5728266.24	5728266.49	5728266.74	0.0089	0.0011
Moon	10971-05-12 00:57 G	5728266.28	5728266.54	5728266.80	0.0089	0.0016 *
Earth	10972-05-13 10:33 G	5728633.70	5728633.94	5728634.19	0.0089	0.0023
Moon	10972-05-13 10:48 G	5728633.72	5728633.95	5728634.20	0.0089	0.0019 *
Moon	10973-05-15 19:40 G	5729001.09	5729001.32	5729001.57	0.0089	0.0039
Earth	10973-05-15 21:21 G	5729001.17	5729001.39	5729001.64	0.0089	0.0035 *
Earth	10974-05-18 08:09 G	5729368.64	5729368.84	5729369.07	0.0089	0.0047
Moon	10974-05-18 10:19 G	5729368.73	5729368.93	5729369.17	0.0089	0.0043 *
Moon	10975-05-20 15:21 G	5729735.98	5729736.14	5729736.34	0.0089	0.0063
Earth	10975-05-20 18:57 G	5729736.11	5729736.29	5729736.49	0.0089	0.0058 *
Earth	10976-05-22 05:31 G	5730103.59	5730103.73	5730103.90	0.0089	0.0070
Moon	10976-05-22 08:38 G	5730103.72	5730103.86	5730104.06	0.0089	0.0066 *
Moon	10977-05-24 12:28 G	5730470.99	5730471.02	5730471.12	0.0089	0.0086
Earth	10977-05-24 16:19 G	5730471.09	5730471.18	5730471.30	0.0089	0.0081 *
Moon	10978-05-27 05:31 G	5730838.72	5730838.73	5730838.79	0.0089	0.0088
Mars	10991-05-28 04:19 G	5735587.38	5735587.68	5735588.03	0.0088	0.0028
Mars	10993-04-23 05:31 G	5736283.56	5736283.73	5736283.96	0.0088	0.0072

# 12TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 12th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	11010-12-31 10:33	G	5742743.84	5742743.94	5742744.08	0.0088	0.0074	
Venus	11011-08-13 23:16	G	5742969.31	5742969.47	5742969.66	0.0088	0.0055	
Venus	11012-03-26 12:14	G	5743194.81	5743195.01	5743195.21	0.0088	0.0036	
Mercury	11012-08-13 12:14	G	5743334.96	5743335.01	5743335.09	0.0088	0.0081	
Venus	11012-11-07 00:43	G	5743420.32	5743420.53	5743420.75	0.0088	0.0018	
Mercury	11012-11-09 14:52	G	5743423.04	5743423.12	5743423.22	0.0088	0.0073	
Mercury	11013-02-05 17:16	G	5743511.12	5743511.22	5743511.34	0.0088	0.0065	
Mercury	11013-05-04 19:40	G	5743599.20	5743599.32	5743599.45	0.0088	0.0057	
Venus	11013-06-20 13:26	G	5743645.84	5743646.06	5743646.28	0.0088	0.0002	
Mercury	11013-07-31 22:04	G	5743687.29	5743687.42	5743687.57	0.0088	0.0049	
Mercury	11013-10-28 00:28	G	5743775.38	5743775.52	5743775.68	0.0088	0.0041	
Mercury	11014-01-24 03:07	G	5743863.48	5743863.63	5743863.79	0.0088	0.0033	
Venus	11014-02-01 01:55	G	5743871.37	5743871.58	5743871.80	0.0088	0.0020	
Mercury	11014-04-22 05:31	G	5743951.58	5743951.73	5743951.90	0.0088	0.0025	
Mercury	11014-07-19 08:09	G	5744039.67	5744039.84	5744040.01	0.0088	0.0016	
Venus	11014-09-14 14:23	G	5744096.91	5744097.10	5744097.31	0.0088	0.0038	
Mercury	11014-10-15 10:33	G	5744127.78	5744127.94	5744128.11	0.0088	0.0008	
Mercury	11015-01-11 13:11	G	5744215.88	5744216.05	5744216.22	0.0088	0.0000	
Mercury	11015-04-09 15:36	G	5744303.98	5744304.15	5744304.32	0.0088	0.0009	

Venus	11015-04-28 02:52 G	5744322.47	5744322.62	5744322.80	0.0088	0.0057
Mercury	11015-07-06 18:00 G	5744392.09	5744392.25	5744392.43	0.0088	0.0017
Mercury	11015-10-02 20:38 G	5744480.20	5744480.36	5744480.53	0.0088	0.0025
Venus	11015-12-09 15:36 G	5744548.05	5744548.15	5744548.27	0.0088	0.0075
Mercury	11015-12-29 23:16 G	5744568.31	5744568.47	5744568.63	0.0088	0.0033
Mercury	11016-03-27 01:40 G	5744656.43	5744656.57	5744656.73	0.0088	0.0042
Mercury	11016-06-23 04:19 G	5744744.55	5744744.68	5744744.83	0.0088	0.0050
Mercury	11016-09-19 06:43 G	5744832.67	5744832.78	5744832.92	0.0088	0.0059
Mercury	11016-12-16 09:21 G	5744920.79	5744920.89	5744921.01	0.0088	0.0067
Mercury	11017-03-14 11:45 G	5745008.93	5745008.99	5745009.10	0.0088	0.0076
Mercury	11017-06-10 14:38 G	5745097.07	5745097.11	5745097.17	0.0088	0.0084
Earth	11046-10-24 00:43 G	5755824.43	5755824.53	5755824.68	0.0088	0.0077
Moon	11046-10-24 04:48 G	5755824.59	5755824.70	5755824.83	0.0088	0.0077 *
Moon	11047-10-26 10:04 G	5756191.76	5756191.92	5756192.09	0.0088	0.0066
Earth	11047-10-26 12:43 G	5756191.89	5756192.03	5756192.23	0.0088	0.0066 *
Earth	11048-10-28 00:57 G	5756559.34	5756559.54	5756559.75	0.0088	0.0054
Moon	11048-10-28 03:07 G	5756559.45	5756559.63	5756559.87	0.0088	0.0055 *
Moon	11049-10-30 11:16 G	5756926.75	5756926.97	5756927.19	0.0088	0.0042
Earth	11049-10-30 12:43 G	5756926.82	5756927.03	5756927.28	0.0088	0.0043 *
Earth	11050-11-02 00:57 G	5757294.31	5757294.54	5757294.79	0.0088	0.0031
Moon	11050-11-02 01:11 G	5757294.31	5757294.55	5757294.81	0.0088	0.0031 *
Earth	11051-11-04 12:57 G	5757661.80	5757662.04	5757662.30	0.0088	0.0020
Moon	11051-11-04 13:55 G	5757661.83	5757662.08	5757662.32	0.0088	0.0019 *
Moon	11052-11-05 23:16 G	5758029.21	5758029.47	5758029.75	0.0088	0.0009
Earth	11052-11-06 01:11 G	5758029.30	5758029.55	5758029.81	0.0088	0.0008 *
Earth	11053-11-08 13:11 G	5758396.79	5758397.05	5758397.31	0.0088	0.0004
Moon	11053-11-08 16:19 G	5758396.93	5758397.18	5758397.44	0.0088	0.0004 *
Moon	11054-11-10 22:19 G	5758764.17	5758764.43	5758764.69	0.0088	0.0015
Earth	11054-11-11 01:26 G	5758764.31	5758764.56	5758764.82	0.0088	0.0015 *
Earth	11055-11-13 13:26 G	5759131.83	5759132.06	5759132.32	0.0088	0.0027

Moon	11055-11-13 17:31 G	5759131.99	5759132.23	5759132.48	0.0088	0.0029 *
Moon	11056-11-14 22:33 G	5759499.22	5759499.44	5759499.69	0.0088	0.0038
Earth	11056-11-15 02:09 G	5759499.36	5759499.59	5759499.82	0.0088	0.0039 *
Earth	11057-11-17 14:09 G	5759866.89	5759867.09	5759867.32	0.0088	0.0051
Moon	11057-11-17 16:48 G	5759867.01	5759867.20	5759867.44	0.0088	0.0053 *
Moon	11058-11-20 00:43 G	5760234.37	5760234.53	5760234.74	0.0088	0.0061
Earth	11058-11-20 02:38 G	5760234.45	5760234.61	5760234.82	0.0088	0.0062 *
Earth	11059-11-22 15:21 G	5760602.02	5760602.14	5760602.30	0.0088	0.0074
Moon	11059-11-22 15:50 G	5760602.03	5760602.16	5760602.32	0.0088	0.0075 *
Earth	11060-11-24 04:33 G	5760969.62	5760969.69	5760969.76	0.0088	0.0085
Moon	11060-11-24 04:19 G	5760969.63	5760969.68	5760969.79	0.0088	0.0084 *
Mars	11073-04-17 10:19 G	5765496.87	5765496.93	5765497.03	0.0089	0.0085
Mars	11075-03-12 06:43 G	5766190.48	5766190.78	5766191.07	0.0089	0.0001
Mars	11077-02-02 23:16 G	5766884.41	5766884.47	5766884.58	0.0089	0.0085
Jupiter	11085-04-11 16:04 G	5769873.76	5769874.17	5769874.61	0.0089	0.0052
Venus	11093-09-28 20:23 G	5772966.27	5772966.35	5772966.46	0.0089	0.0080
Venus	11094-05-12 09:36 G	5773191.76	5773191.90	5773192.08	0.0089	0.0061
Venus	11094-12-23 23:16 G	5773417.28	5773417.47	5773417.68	0.0089	0.0041
Mercury	11095-02-19 23:16 G	5773475.45	5773475.47	5773475.52	0.0089	0.0087
Mercury	11095-05-19 01:11 G	5773563.49	5773563.55	5773563.63	0.0089	0.0079
Venus	11095-08-06 12:43 G	5773642.82	5773643.03	5773643.25	0.0089	0.0021
Mercury	11095-08-15 03:21 G	5773651.55	5773651.64	5773651.73	0.0089	0.0071
Mercury	11095-11-11 05:02 G	5773739.62	5773739.71	5773739.82	0.0089	0.0063
Mercury	11096-02-07 06:57 G	5773827.68	5773827.79	5773827.92	0.0089	0.0055
Venus	11096-03-19 02:09 G	5773868.37	5773868.59	5773868.81	0.0089	0.0001
Mercury	11096-05-05 08:52 G	5773915.75	5773915.87	5773916.00	0.0089	0.0048
Mercury	11096-08-01 10:48 G	5774003.82	5774003.95	5774004.09	0.0089	0.0040
Mercury	11096-10-28 12:43 G	5774091.90	5774092.03	5774092.17	0.0089	0.0032
Venus	11096-10-30 15:36 G	5774093.94	5774094.15	5774094.37	0.0089	0.0019
Mercury	11097-01-24 14:38 G	5774179.97	5774180.11	5774180.25	0.0089	0.0024

Mercury	11097-04-22 16:33 G	5774268.04	5774268.19	5774268.33	0.0089	0.0017
Venus	11097-06-13 04:48 G	5774319.51	5774319.70	5774319.91	0.0089	0.0039
Mercury	11097-07-19 18:14 G	5774356.12	5774356.26	5774356.41	0.0089	0.0010
Mercury	11097-10-15 20:09 G	5774444.19	5774444.34	5774444.49	0.0089	0.0002
Mercury	11098-01-11 22:04 G	5774532.27	5774532.42	5774532.56	0.0089	0.0006
Venus	11098-01-24 18:00 G	5774545.10	5774545.25	5774545.43	0.0089	0.0059
Mercury	11098-04-09 23:45 G	5774620.35	5774620.49	5774620.64	0.0089	0.0014
Mercury	11098-07-07 01:26 G	5774708.43	5774708.56	5774708.71	0.0089	0.0022
Venus	11098-09-07 07:40 G	5774770.72	5774770.82	5774770.93	0.0089	0.0078
Mercury	11098-10-03 03:21 G	5774796.51	5774796.64	5774796.78	0.0089	0.0029
Mercury	11098-12-30 05:02 G	5774884.58	5774884.71	5774884.85	0.0089	0.0037
Mercury	11099-03-28 06:57 G	5774972.67	5774972.79	5774972.92	0.0089	0.0044
Mercury	11099-06-24 08:38 G	5775060.75	5775060.86	5775060.99	0.0089	0.0051
Mercury	11099-09-20 10:19 G	5775148.83	5775148.93	5775149.05	0.0089	0.0059
Mercury	11099-12-17 12:00 G	5775236.92	5775237.00	5775237.11	0.0089	0.0066
Mercury	11100-03-15 13:40 G	5775325.01	5775325.07	5775325.17	0.0089	0.0074
Mercury	11100-06-11 15:36 G	5775413.10	5775413.15	5775413.22	0.0089	0.0081
Mercury	11100-09-07 17:31 G	5775501.21	5775501.23	5775501.26	0.0089	0.0088
Moon	11127-04-25 08:09 G	5785226.81	5785226.84	5785226.90	0.0089	0.0088
Earth	11127-04-25 10:04 G	5785226.91	5785226.92	5785226.97	0.0089	0.0089
Earth	11128-04-26 21:21 G	5785594.29	5785594.39	5785594.54	0.0089	0.0078
Moon	11128-04-27 00:43 G	5785594.43	5785594.53	5785594.66	0.0089	0.0079 *
Moon	11129-04-29 05:45 G	5785961.58	5785961.74	5785961.93	0.0089	0.0065
Earth	11129-04-29 09:21 G	5785961.73	5785961.89	5785962.07	0.0089	0.0066 *
Earth	11130-05-01 20:09 G	5786329.16	5786329.34	5786329.57	0.0089	0.0055
Moon	11130-05-02 00:00 G	5786329.32	5786329.50	5786329.72	0.0089	0.0055 *
Moon	11131-05-04 05:02 G	5786696.49	5786696.71	5786696.94	0.0089	0.0042
Earth	11131-05-04 07:55 G	5786696.62	5786696.83	5786697.07	0.0089	0.0043 *
Earth	11132-05-05 19:26 G	5787064.07	5787064.31	5787064.55	0.0089	0.0031
Moon	11132-05-05 21:50 G	5787064.17	5787064.41	5787064.67	0.0089	0.0030 *

Moon	11133-05-08 04:48 G	5787431.47	5787431.70	5787431.96	0.0089	0.0020
Earth	11133-05-08 06:28 G	5787431.53	5787431.77	5787432.03	0.0089	0.0019 *
Moon	11134-05-10 18:00 G	5787798.98	5787799.25	5787799.51	0.0089	0.0007
Earth	11134-05-10 18:00 G	5787799.00	5787799.25	5787799.50	0.0089	0.0007 *
Earth	11135-05-13 05:02 G	5788166.46	5788166.71	5788166.97	0.0089	0.0005
Moon	11135-05-13 06:00 G	5788166.50	5788166.75	5788166.99	0.0089	0.0004 *
Moon	11136-05-14 14:23 G	5788533.84	5788534.10	5788534.35	0.0089	0.0017
Earth	11136-05-14 16:19 G	5788533.94	5788534.18	5788534.44	0.0089	0.0016 *
Earth	11137-05-17 03:21 G	5788901.41	5788901.64	5788901.89	0.0089	0.0028
Moon	11137-05-17 06:28 G	5788901.54	5788901.77	5788902.02	0.0089	0.0028 *
Moon	11138-05-19 11:02 G	5789268.74	5789268.96	5789269.20	0.0089	0.0040
Earth	11138-05-19 14:38 G	5789268.88	5789269.11	5789269.34	0.0089	0.0040 *
Earth	11139-05-22 01:11 G	5789636.36	5789636.55	5789636.77	0.0089	0.0051
Moon	11139-05-22 05:02 G	5789636.51	5789636.71	5789636.93	0.0089	0.0050 *
Moon	11140-05-23 08:52 G	5790003.72	5790003.87	5790004.08	0.0089	0.0063
Earth	11140-05-23 12:28 G	5790003.84	5790004.02	5790004.20	0.0089	0.0062 *
Earth	11141-05-25 22:33 G	5790371.33	5790371.44	5790371.61	0.0089	0.0074
Moon	11141-05-26 01:26 G	5790371.42	5790371.56	5790371.72	0.0089	0.0072 *
Moon	11142-05-28 08:09 G	5790738.80	5790738.84	5790738.92	0.0089	0.0086
Earth	11142-05-28 09:21 G	5790738.84	5790738.89	5790738.99	0.0089	0.0085 *
Mars	11155-01-10 13:11 G	5795348.90	5795349.05	5795349.27	0.0089	0.0074
Mars	11156-12-06 12:28 G	5796044.72	5796045.02	5796045.37	0.0088	0.0025
Venus	11175-04-04 18:57 G	5802738.25	5802738.29	5802738.38	0.0088	0.0084
Venus	11175-11-16 07:55 G	5802963.69	5802963.83	5802963.99	0.0088	0.0065
Venus	11176-06-28 20:23 G	5803189.19	5803189.35	5803189.56	0.0088	0.0047
Venus	11177-02-09 09:21 G	5803414.69	5803414.89	5803415.11	0.0088	0.0028
Mercury	11177-02-12 08:09 G	5803417.84	5803417.84	5803417.86	0.0088	0.0088
Mercury	11177-05-11 10:33 G	5803505.88	5803505.94	5803506.02	0.0088	0.0080
Mercury	11177-08-07 12:57 G	5803593.96	5803594.04	5803594.14	0.0088	0.0072
Venus	11177-09-22 22:04 G	5803640.20	5803640.42	5803640.64	0.0088	0.0009



Mercury	11177-11-03 15:21 G	5803682.04	5803682.14	5803682.26	0.0088	0.0064
Mercury	11178-01-30 17:45 G	5803770.12	5803770.24	5803770.38	0.0088	0.0056
Mercury	11178-04-28 20:09 G	5803858.21	5803858.34	5803858.49	0.0088	0.0048
Venus	11178-05-06 10:48 G	5803865.73	5803865.95	5803866.17	0.0088	0.0010
Mercury	11178-07-25 22:33 G	5803946.31	5803946.44	5803946.60	0.0088	0.0040
Mercury	11178-10-22 01:11 G	5804034.40	5804034.55	5804034.71	0.0088	0.0032
Venus	11178-12-17 23:31 G	5804091.27	5804091.48	5804091.68	0.0088	0.0028
Mercury	11179-01-18 03:36 G	5804122.50	5804122.65	5804122.82	0.0088	0.0024
Mercury	11179-04-16 06:14 G	5804210.60	5804210.76	5804210.93	0.0088	0.0015
Mercury	11179-07-13 08:52 G	5804298.70	5804298.87	5804299.04	0.0088	0.0007
Venus	11179-07-31 11:45 G	5804316.81	5804316.99	5804317.19	0.0088	0.0047
Mercury	11179-10-09 11:16 G	5804386.80	5804386.97	5804387.14	0.0088	0.0001
Mercury	11180-01-05 13:40 G	5804474.91	5804475.07	5804475.24	0.0088	0.0010
Venus	11180-03-13 00:00 G	5804542.38	5804542.50	5804542.67	0.0088	0.0066
Mercury	11180-04-02 16:19 G	5804563.01	5804563.18	5804563.35	0.0088	0.0018
Mercury	11180-06-29 18:43 G	5804651.12	5804651.28	5804651.45	0.0088	0.0026
Mercury	11180-09-25 21:07 G	5804739.24	5804739.38	5804739.55	0.0088	0.0035
Venus	11180-10-24 12:43 G	5804767.99	5804768.03	5804768.11	0.0088	0.0084
Mercury	11180-12-22 23:45 G	5804827.35	5804827.49	5804827.65	0.0088	0.0043
Mercury	11181-03-21 02:23 G	5804915.47	5804915.60	5804915.74	0.0088	0.0051
Mercury	11181-06-17 04:48 G	5805003.59	5805003.70	5805003.84	0.0088	0.0060
Mercury	11181-09-13 07:26 G	5805091.71	5805091.81	5805091.93	0.0088	0.0068
Mercury	11181-12-10 09:50 G	5805179.85	5805179.91	5805180.01	0.0088	0.0077
Mercury	11182-03-08 12:43 G	5805268.00	5805268.03	5805268.08	0.0088	0.0085
Moon	11210-10-24 02:09 G	5815724.56	5815724.59	5815724.65	0.0088	0.0086
Earth	11210-10-24 05:02 G	5815724.64	5815724.71	5815724.83	0.0088	0.0082 *
Earth	11211-10-26 16:48 G	5816092.07	5816092.20	5816092.37	0.0088	0.0071
Moon	11211-10-26 18:57 G	5816092.13	5816092.29	5816092.48	0.0088	0.0066 *
Moon	11212-10-28 04:04 G	5816459.52	5816459.67	5816459.86	0.0088	0.0064
Earth	11212-10-28 04:33 G	5816459.53	5816459.69	5816459.91	0.0088	0.0060 *

Moon	11213-10-30 16:48 G	5816826.98	5816827.20	5816827.45	0.0088	0.0044
Earth	11213-10-30 16:33 G	5816827.00	5816827.19	5816827.43	0.0088	0.0049 *
Earth	11214-11-02 05:02 G	5817194.48	5817194.71	5817194.95	0.0088	0.0037
Moon	11214-11-02 06:28 G	5817194.57	5817194.77	5817195.01	0.0088	0.0042 *
Moon	11215-11-04 14:09 G	5817561.85	5817562.09	5817562.37	0.0088	0.0023
Earth	11215-11-04 17:02 G	5817561.97	5817562.21	5817562.47	0.0088	0.0026 *
Earth	11216-11-06 05:02 G	5817929.46	5817929.71	5817929.97	0.0088	0.0015
Moon	11216-11-06 08:09 G	5817929.59	5817929.84	5817930.09	0.0088	0.0019 *
Moon	11217-11-08 13:40 G	5818296.81	5818297.07	5818297.33	0.0088	0.0002
Earth	11217-11-08 17:16 G	5818296.96	5818297.22	5818297.49	0.0088	0.0004 *
Earth	11218-11-11 05:31 G	5818664.47	5818664.73	5818664.99	0.0088	0.0008
Moon	11218-11-11 08:52 G	5818664.61	5818664.87	5818665.13	0.0088	0.0004 *
Moon	11219-11-13 14:09 G	5819031.85	5819032.09	5819032.35	0.0088	0.0025
Earth	11219-11-13 17:16 G	5819031.98	5819032.22	5819032.49	0.0088	0.0020 *
Earth	11220-11-15 05:31 G	5819399.49	5819399.73	5819399.98	0.0088	0.0031
Moon	11220-11-15 07:40 G	5819399.57	5819399.82	5819400.08	0.0088	0.0027 *
Moon	11221-11-17 16:33 G	5819767.00	5819767.19	5819767.43	0.0088	0.0048
Earth	11221-11-17 18:00 G	5819767.02	5819767.25	5819767.48	0.0088	0.0043 *
Moon	11222-11-20 06:14 G	5820134.55	5820134.76	5820134.99	0.0088	0.0050
Earth	11222-11-20 06:00 G	5820134.56	5820134.75	5820134.97	0.0088	0.0054 *
Earth	11223-11-22 18:28 G	5820502.11	5820502.27	5820502.46	0.0088	0.0065
Moon	11223-11-22 19:55 G	5820502.20	5820502.33	5820502.50	0.0088	0.0070 *
Moon	11224-11-24 04:19 G	5820869.55	5820869.68	5820869.85	0.0088	0.0073
Earth	11224-11-24 06:57 G	5820869.68	5820869.79	5820869.93	0.0088	0.0077 *
Earth	11225-11-26 19:40 G	5821237.30	5821237.32	5821237.36	0.0088	0.0088
Mars	11238-10-26 06:28 G	5825953.53	5825953.77	5825954.05	0.0089	0.0042
Mars	11240-09-19 02:23 G	5826647.37	5826647.60	5826647.88	0.0089	0.0044
Venus	11258-08-14 17:02 G	5833186.09	5833186.21	5833186.35	0.0089	0.0072
Venus	11259-03-28 06:00 G	5833411.59	5833411.75	5833411.95	0.0089	0.0053
Venus	11259-11-08 19:40 G	5833637.13	5833637.32	5833637.54	0.0089	0.0033

Mercury	11259-11-17 21:36 G	5833646.38	5833646.40	5833646.45	0.0089	0.0087
Mercury	11260-02-13 23:45 G	5833734.42	5833734.49	5833734.56	0.0089	0.0079
Mercury	11260-05-12 01:40 G	5833822.48	5833822.57	5833822.66	0.0089	0.0071
Venus	11260-06-21 09:21 G	5833862.67	5833862.89	5833863.11	0.0089	0.0013
Mercury	11260-08-08 03:21 G	5833910.55	5833910.64	5833910.76	0.0089	0.0063
Mercury	11260-11-04 05:16 G	5833998.62	5833998.72	5833998.85	0.0089	0.0056
Mercury	11261-01-31 07:26 G	5834086.68	5834086.81	5834086.94	0.0089	0.0048
Venus	11261-02-01 22:33 G	5834088.22	5834088.44	5834088.66	0.0089	0.0007
Mercury	11261-04-29 09:21 G	5834174.76	5834174.89	5834175.02	0.0089	0.0040
Mercury	11261-07-26 11:02 G	5834262.83	5834262.96	5834263.11	0.0089	0.0032
Venus	11261-09-15 11:45 G	5834313.79	5834313.99	5834314.21	0.0089	0.0027
Mercury	11261-10-22 12:57 G	5834350.90	5834351.04	5834351.19	0.0089	0.0025
Mercury	11262-01-18 14:52 G	5834438.98	5834439.12	5834439.27	0.0089	0.0017
Mercury	11262-04-16 16:48 G	5834527.05	5834527.20	5834527.35	0.0089	0.0009
Venus	11262-04-29 00:57 G	5834539.36	5834539.54	5834539.74	0.0089	0.0047
Mercury	11262-07-13 18:28 G	5834615.13	5834615.27	5834615.42	0.0089	0.0003
Mercury	11262-10-09 20:23 G	5834703.20	5834703.35	5834703.50	0.0089	0.0006
Venus	11262-12-10 14:23 G	5834764.97	5834765.10	5834765.26	0.0089	0.0066
Mercury	11263-01-05 22:19 G	5834791.28	5834791.43	5834791.57	0.0089	0.0014
Mercury	11263-04-04 00:00 G	5834879.36	5834879.50	5834879.65	0.0089	0.0021
Mercury	11263-07-01 01:55 G	5834967.44	5834967.58	5834967.72	0.0089	0.0029
Venus	11263-07-24 04:04 G	5834990.61	5834990.67	5834990.73	0.0089	0.0086
Mercury	11263-09-27 03:36 G	5835055.52	5835055.65	5835055.79	0.0089	0.0036
Mercury	11263-12-24 05:16 G	5835143.60	5835143.72	5835143.85	0.0089	0.0044
Mercury	11264-03-21 06:57 G	5835231.68	5835231.79	5835231.92	0.0089	0.0052
Mercury	11264-06-17 08:52 G	5835319.77	5835319.87	5835319.98	0.0089	0.0059
Mercury	11264-09-13 10:48 G	5835407.85	5835407.95	5835408.05	0.0089	0.0066
Mercury	11264-12-10 12:14 G	5835495.94	5835496.01	5835496.10	0.0089	0.0074
Mercury	11265-03-08 14:09 G	5835584.04	5835584.09	5835584.16	0.0089	0.0081
Mercury	11265-06-04 16:04 G	5835672.15	5835672.17	5835672.19	0.0089	0.0088

Moon	11292-04-25 23:02 G	5845494.35	5845494.46	5845494.59	0.0089	0.0078
Earth	11292-04-26 02:23 G	5845494.53	5845494.60	5845494.72	0.0089	0.0083 *
Earth	11293-04-28 14:23 G	5845861.95	5845862.10	5845862.26	0.0089	0.0071
Moon	11293-04-28 17:02 G	5845862.10	5845862.21	5845862.38	0.0089	0.0076 *
Moon	11294-04-30 22:19 G	5846229.26	5846229.43	5846229.65	0.0089	0.0056
Earth	11294-05-01 01:40 G	5846229.39	5846229.57	5846229.77	0.0089	0.0060 *
Earth	11295-05-03 12:43 G	5846596.84	5846597.03	5846597.27	0.0089	0.0049
Moon	11295-05-03 14:52 G	5846596.92	5846597.12	5846597.34	0.0089	0.0053 *
Moon	11296-05-04 23:31 G	5846964.27	5846964.48	5846964.73	0.0089	0.0033
Earth	11296-05-05 00:14 G	5846964.30	5846964.51	5846964.76	0.0089	0.0037 *
Moon	11297-05-07 11:45 G	5847331.74	5847331.99	5847332.24	0.0089	0.0030
Earth	11297-05-07 11:45 G	5847331.75	5847331.99	5847332.24	0.0089	0.0025 *
Earth	11298-05-09 22:48 G	5847699.21	5847699.45	5847699.71	0.0089	0.0014
Moon	11298-05-10 00:57 G	5847699.29	5847699.54	5847699.79	0.0089	0.0009 *
Moon	11299-05-12 07:40 G	5848066.56	5848066.82	5848067.08	0.0089	0.0006
Earth	11299-05-12 10:19 G	5848066.68	5848066.93	5848067.19	0.0089	0.0002 *
Earth	11300-05-14 21:21 G	5848434.14	5848434.39	5848434.65	0.0089	0.0009
Moon	11300-05-15 00:28 G	5848434.28	5848434.52	5848434.78	0.0089	0.0014 *
Moon	11301-05-17 04:48 G	5848801.46	5848801.70	5848801.96	0.0089	0.0016
Earth	11301-05-17 08:23 G	5848801.61	5848801.85	5848802.11	0.0089	0.0021 *
Earth	11302-05-19 19:26 G	5849169.09	5849169.31	5849169.56	0.0089	0.0033
Moon	11302-05-19 22:33 G	5849169.23	5849169.44	5849169.70	0.0089	0.0037 *
Moon	11303-05-22 03:36 G	5849536.44	5849536.65	5849536.89	0.0089	0.0039
Earth	11303-05-22 06:28 G	5849536.57	5849536.77	5849537.01	0.0089	0.0044 *
Earth	11304-05-23 17:16 G	5849904.05	5849904.22	5849904.45	0.0089	0.0055
Moon	11304-05-23 19:11 G	5849904.12	5849904.30	5849904.51	0.0089	0.0059 *
Moon	11305-05-26 03:50 G	5850271.50	5850271.66	5850271.85	0.0089	0.0062
Earth	11305-05-26 04:19 G	5850271.53	5850271.68	5850271.87	0.0089	0.0066 *
Earth	11306-05-28 15:07 G	5850639.02	5850639.13	5850639.27	0.0089	0.0077
Moon	11306-05-28 14:52 G	5850639.03	5850639.12	5850639.23	0.0089	0.0081 *

Earth	11307-05-31 01:40 G	5851006.56	5851006.57	5851006.63	0.0089	0.0088
Moon	11307-05-31 03:36 G	5851006.60	5851006.65	5851006.77	0.0089	0.0084 *
Mars	11320-07-20 21:21 G	5855806.08	5855806.39	5855806.73	0.0088	0.0022
Mars	11322-06-16 20:38 G	5856502.22	5856502.36	5856502.57	0.0088	0.0076
Venus	11340-02-18 15:50 G	5862958.08	5862958.16	5862958.30	0.0088	0.0076
Venus	11340-10-01 04:48 G	5863183.55	5863183.70	5863183.88	0.0088	0.0057
Venus	11341-05-14 17:45 G	5863409.05	5863409.24	5863409.44	0.0088	0.0038
Mercury	11341-11-10 06:14 G	5863588.75	5863588.76	5863588.79	0.0088	0.0087
Venus	11341-12-26 06:28 G	5863634.56	5863634.77	5863634.99	0.0088	0.0019
Mercury	11342-02-06 08:38 G	5863676.80	5863676.86	5863676.94	0.0088	0.0079
Mercury	11342-05-05 11:02 G	5863764.87	5863764.96	5863765.07	0.0088	0.0071
Mercury	11342-08-01 13:26 G	5863852.95	5863853.06	5863853.18	0.0088	0.0063
Venus	11342-08-08 19:11 G	5863860.08	5863860.30	5863860.52	0.0088	0.0002
Mercury	11342-10-28 15:50 G	5863941.04	5863941.16	5863941.30	0.0088	0.0055
Mercury	11343-01-24 18:14 G	5864029.13	5864029.26	5864029.41	0.0088	0.0047
Venus	11343-03-22 07:40 G	5864085.61	5864085.82	5864086.04	0.0088	0.0018
Mercury	11343-04-22 20:38 G	5864117.22	5864117.36	5864117.52	0.0088	0.0039
Mercury	11343-07-19 23:16 G	5864205.32	5864205.47	5864205.63	0.0088	0.0031
Mercury	11343-10-16 01:40 G	5864293.41	5864293.57	5864293.74	0.0088	0.0023
Venus	11343-11-02 20:09 G	5864311.15	5864311.34	5864311.55	0.0088	0.0037
Mercury	11344-01-12 04:04 G	5864381.51	5864381.67	5864381.85	0.0088	0.0015
Mercury	11344-04-09 06:43 G	5864469.61	5864469.78	5864469.95	0.0088	0.0006
Venus	11344-06-15 08:38 G	5864536.71	5864536.86	5864537.05	0.0088	0.0056
Mercury	11344-07-06 09:21 G	5864557.72	5864557.89	5864558.06	0.0088	0.0003
Mercury	11344-10-02 11:45 G	5864645.82	5864645.99	5864646.16	0.0088	0.0010
Mercury	11344-12-29 14:09 G	5864733.93	5864734.09	5864734.26	0.0088	0.0019
Venus	11345-01-26 21:21 G	5864762.29	5864762.39	5864762.52	0.0088	0.0074
Mercury	11345-03-27 16:48 G	5864822.04	5864822.20	5864822.36	0.0088	0.0027
Mercury	11345-06-23 19:11 G	5864910.15	5864910.30	5864910.46	0.0088	0.0035
Mercury	11345-09-19 21:36 G	5864998.27	5864998.40	5864998.56	0.0088	0.0044

Mercury	11345-12-17 00:14 G	5865086.38	5865086.51	5865086.66	0.0088	0.0052
Mercury	11346-03-15 03:07 G	5865174.50	5865174.63	5865174.75	0.0088	0.0060
Mercury	11346-06-11 05:16 G	5865262.63	5865262.72	5865262.84	0.0088	0.0069
Mercury	11346-09-07 08:09 G	5865350.76	5865350.84	5865350.92	0.0088	0.0077
Mercury	11346-12-04 10:19 G	5865438.92	5865438.93	5865438.99	0.0088	0.0086
Earth	11374-10-24 09:36 G	5875624.86	5875624.90	5875624.95	0.0088	0.0086
Moon	11374-10-24 10:48 G	5875624.95	5875624.95	5875625.00	0.0088	0.0088 *
Moon	11375-10-26 20:52 G	5875992.25	5875992.37	5875992.51	0.0088	0.0074
Earth	11375-10-26 20:38 G	5875992.26	5875992.36	5875992.52	0.0088	0.0076 *
Moon	11376-10-28 06:57 G	5876359.64	5876359.79	5876359.99	0.0088	0.0067
Earth	11376-10-28 08:23 G	5876359.70	5876359.85	5876360.05	0.0088	0.0065 *
Earth	11377-10-30 20:23 G	5876727.17	5876727.35	5876727.57	0.0088	0.0054
Moon	11377-10-30 22:19 G	5876727.25	5876727.43	5876727.65	0.0088	0.0053 *
Moon	11378-11-02 05:31 G	5877094.51	5877094.73	5877094.96	0.0088	0.0044
Earth	11378-11-02 08:23 G	5877094.64	5877094.85	5877095.10	0.0088	0.0043 *
Earth	11379-11-04 20:23 G	5877462.12	5877462.35	5877462.60	0.0088	0.0032
Moon	11379-11-05 00:00 G	5877462.27	5877462.50	5877462.75	0.0088	0.0030 *
Moon	11380-11-06 05:16 G	5877829.47	5877829.72	5877829.97	0.0088	0.0022
Earth	11380-11-06 08:23 G	5877829.61	5877829.85	5877830.12	0.0088	0.0022 *
Earth	11381-11-08 20:52 G	5878197.11	5878197.37	5878197.63	0.0088	0.0009
Moon	11381-11-09 00:14 G	5878197.25	5878197.51	5878197.78	0.0088	0.0009 *
Moon	11382-11-11 06:43 G	5878564.53	5878564.78	5878565.04	0.0088	0.0001
Earth	11382-11-11 08:52 G	5878564.61	5878564.87	5878565.13	0.0088	0.0002 *
Earth	11383-11-13 20:52 G	5878932.12	5878932.37	5878932.63	0.0088	0.0013
Moon	11383-11-13 22:33 G	5878932.18	5878932.44	5878932.71	0.0088	0.0013 *
Moon	11384-11-15 08:38 G	5879299.63	5879299.86	5879300.12	0.0088	0.0024
Earth	11384-11-15 08:52 G	5879299.63	5879299.87	5879300.14	0.0088	0.0025 *
Moon	11385-11-17 19:55 G	5879667.09	5879667.33	5879667.59	0.0088	0.0036
Earth	11385-11-17 21:21 G	5879667.16	5879667.39	5879667.63	0.0088	0.0035 *
Earth	11386-11-20 09:36 G	5880034.68	5880034.90	5880035.13	0.0088	0.0047

Moon	11386-11-20 11:31 G	5880034.77	5880034.98	5880035.20	0.0088	0.0047 *
Moon	11387-11-22 18:14 G	5880402.08	5880402.26	5880402.48	0.0088	0.0058
Earth	11387-11-22 21:50 G	5880402.22	5880402.41	5880402.61	0.0088	0.0058 *
Earth	11388-11-24 10:19 G	5880769.77	5880769.93	5880770.09	0.0088	0.0069
Moon	11388-11-24 13:26 G	5880769.92	5880770.06	5880770.24	0.0088	0.0069 *
Moon	11389-11-26 18:57 G	5881137.20	5881137.29	5881137.42	0.0088	0.0079
Earth	11389-11-26 23:02 G	5881137.35	5881137.46	5881137.57	0.0088	0.0080 *
Mars	11402-06-12 06:00 G	5885716.69	5885716.75	5885716.88	0.0089	0.0084
Mars	11404-05-06 02:52 G	5886410.33	5886410.62	5886410.91	0.0089	0.0002
Mars	11406-03-30 22:19 G	5887104.38	5887104.43	5887104.51	0.0089	0.0086
Venus	11422-11-17 23:45 G	5893180.44	5893180.49	5893180.59	0.0089	0.0084
Venus	11423-07-01 13:26 G	5893405.92	5893406.06	5893406.22	0.0089	0.0064
Venus	11424-02-12 02:23 G	5893631.43	5893631.60	5893631.81	0.0089	0.0045
Mercury	11424-08-15 20:09 G	5893817.31	5893817.34	5893817.38	0.0089	0.0087
Venus	11424-09-24 16:04 G	5893856.96	5893857.17	5893857.39	0.0089	0.0024
Mercury	11424-11-11 22:04 G	5893905.36	5893905.42	5893905.49	0.0089	0.0079
Mercury	11425-02-07 23:45 G	5893993.41	5893993.49	5893993.59	0.0089	0.0071
Mercury	11425-05-07 01:40 G	5894081.48	5894081.57	5894081.69	0.0089	0.0064
Venus	11425-05-08 05:31 G	5894082.51	5894082.73	5894082.95	0.0089	0.0005
Mercury	11425-08-03 03:50 G	5894169.55	5894169.66	5894169.78	0.0089	0.0055
Mercury	11425-10-30 05:45 G	5894257.62	5894257.74	5894257.87	0.0089	0.0048
Venus	11425-12-19 18:43 G	5894308.07	5894308.28	5894308.51	0.0089	0.0015
Mercury	11426-01-26 07:26 G	5894345.69	5894345.81	5894345.95	0.0089	0.0040
Mercury	11426-04-24 09:21 G	5894433.76	5894433.89	5894434.04	0.0089	0.0033
Mercury	11426-07-21 11:16 G	5894521.83	5894521.97	5894522.12	0.0089	0.0025
Venus	11426-08-02 08:09 G	5894533.64	5894533.84	5894534.05	0.0089	0.0035
Mercury	11426-10-17 13:11 G	5894609.91	5894610.05	5894610.20	0.0089	0.0017
Mercury	11427-01-13 15:07 G	5894697.98	5894698.13	5894698.28	0.0089	0.0009
Venus	11427-03-15 21:21 G	5894759.23	5894759.39	5894759.57	0.0089	0.0055
Mercury	11427-04-11 17:02 G	5894786.06	5894786.21	5894786.36	0.0089	0.0002

Mercury	11427-07-08 18:43 G	5894874.14	5894874.28	5894874.43	0.0089	0.0007
Mercury	11427-10-04 20:38 G	5894962.22	5894962.36	5894962.51	0.0089	0.0014
Venus	11427-10-27 10:33 G	5894984.84	5894984.94	5894985.08	0.0089	0.0075
Mercury	11427-12-31 22:19 G	5895050.29	5895050.43	5895050.58	0.0089	0.0022
Mercury	11428-03-29 00:14 G	5895138.37	5895138.51	5895138.65	0.0089	0.0029
Mercury	11428-06-25 01:55 G	5895226.45	5895226.58	5895226.72	0.0089	0.0036
Mercury	11428-09-21 03:50 G	5895314.54	5895314.66	5895314.79	0.0089	0.0044
Mercury	11428-12-18 05:31 G	5895402.62	5895402.73	5895402.86	0.0089	0.0051
Mercury	11429-03-16 07:11 G	5895490.70	5895490.80	5895490.92	0.0089	0.0059
Mercury	11429-06-12 09:21 G	5895578.79	5895578.89	5895578.98	0.0089	0.0066
Mercury	11429-09-08 10:48 G	5895666.88	5895666.95	5895667.04	0.0089	0.0073
Mercury	11429-12-05 12:43 G	5895754.97	5895755.03	5895755.09	0.0089	0.0081
Mercury	11430-03-03 14:38 G	5895843.08	5895843.11	5895843.13	0.0089	0.0088
Earth	11456-04-27 06:00 G	5905394.73	5905394.75	5905394.84	0.0089	0.0088
Moon	11456-04-27 09:50 G	5905394.84	5905394.91	5905395.00	0.0089	0.0085 *
Moon	11457-04-29 16:04 G	5905762.08	5905762.17	5905762.31	0.0089	0.0079
Earth	11457-04-29 18:00 G	5905762.15	5905762.25	5905762.41	0.0089	0.0077 *
Earth	11458-05-02 05:31 G	5906129.59	5906129.73	5906129.93	0.0089	0.0066
Moon	11458-05-02 07:26 G	5906129.64	5906129.81	5906130.01	0.0089	0.0064 *
Earth	11459-05-04 17:45 G	5906497.04	5906497.24	5906497.45	0.0089	0.0054
Moon	11459-05-04 17:45 G	5906497.05	5906497.24	5906497.44	0.0089	0.0056 *
Moon	11460-05-06 03:36 G	5906864.43	5906864.65	5906864.90	0.0089	0.0041
Earth	11460-05-06 05:16 G	5906864.50	5906864.72	5906864.95	0.0089	0.0043 *
Earth	11461-05-08 16:19 G	5907231.96	5907232.18	5907232.43	0.0089	0.0032
Moon	11461-05-08 18:28 G	5907232.05	5907232.27	5907232.51	0.0089	0.0033 *
Moon	11462-05-11 00:28 G	5907599.28	5907599.52	5907599.79	0.0089	0.0018
Earth	11462-05-11 03:50 G	5907599.42	5907599.66	5907599.92	0.0089	0.0020 *
Earth	11463-05-13 15:21 G	5907966.88	5907967.14	5907967.39	0.0089	0.0009
Moon	11463-05-13 18:43 G	5907967.03	5907967.28	5907967.54	0.0089	0.0010 *
Moon	11464-05-14 23:02 G	5908334.21	5908334.46	5908334.72	0.0089	0.0004



Earth	11464-05-15 02:38 G	5908334.35	5908334.61	5908334.87	0.0089	0.0003 *
Earth	11465-05-17 13:40 G	5908701.82	5908702.07	5908702.33	0.0089	0.0014
Moon	11465-05-17 16:48 G	5908701.95	5908702.20	5908702.46	0.0089	0.0013 *
Moon	11466-05-19 22:33 G	5909069.22	5909069.44	5909069.69	0.0089	0.0027
Earth	11466-05-20 00:43 G	5909069.29	5909069.53	5909069.78	0.0089	0.0025 *
Earth	11467-05-22 12:00 G	5909436.77	5909437.00	5909437.24	0.0089	0.0036
Moon	11467-05-22 13:11 G	5909436.82	5909437.05	5909437.31	0.0089	0.0036 *
Earth	11468-05-23 23:16 G	5909804.26	5909804.47	5909804.69	0.0089	0.0048
Moon	11468-05-23 23:02 G	5909804.27	5909804.46	5909804.69	0.0089	0.0049 *
Moon	11469-05-26 08:23 G	5910171.66	5910171.85	5910172.06	0.0089	0.0057
Earth	11469-05-26 09:36 G	5910171.74	5910171.90	5910172.12	0.0089	0.0059 *
Earth	11470-05-28 21:07 G	5910539.23	5910539.38	5910539.55	0.0089	0.0069
Moon	11470-05-28 23:02 G	5910539.33	5910539.46	5910539.63	0.0089	0.0070 *
Moon	11471-05-31 04:19 G	5910906.59	5910906.68	5910906.82	0.0089	0.0079
Earth	11471-05-31 07:55 G	5910906.74	5910906.83	5910906.95	0.0089	0.0080 *
Mars	11484-03-04 05:16 G	5915567.54	5915567.72	5915567.96	0.0089	0.0069
Mars	11486-01-29 04:04 G	5916263.37	5916263.67	5916264.01	0.0088	0.0029
Jupiter	11494-01-12 21:50 G	5919169.13	5919169.41	5919169.81	0.0088	0.0071
Venus	11504-05-24 00:28 G	5922952.50	5922952.52	5922952.59	0.0088	0.0086
Venus	11505-01-04 13:26 G	5923177.93	5923178.06	5923178.21	0.0088	0.0067
Venus	11505-08-18 02:09 G	5923403.42	5923403.59	5923403.78	0.0088	0.0048
Venus	11506-03-31 14:38 G	5923628.92	5923629.11	5923629.33	0.0088	0.0030
Mercury	11506-08-09 04:19 G	5923759.66	5923759.68	5923759.73	0.0088	0.0086
Mercury	11506-11-05 06:43 G	5923847.72	5923847.78	5923847.87	0.0088	0.0078
Venus	11506-11-12 03:36 G	5923854.43	5923854.65	5923854.87	0.0088	0.0011
Mercury	11507-02-01 09:07 G	5923935.79	5923935.88	5923935.99	0.0088	0.0070
Mercury	11507-04-30 11:31 G	5924023.88	5924023.98	5924024.11	0.0088	0.0062
Venus	11507-06-25 16:19 G	5924079.96	5924080.18	5924080.40	0.0088	0.0008
Mercury	11507-07-27 13:55 G	5924111.96	5924112.08	5924112.22	0.0088	0.0054
Mercury	11507-10-23 16:33 G	5924200.05	5924200.19	5924200.34	0.0088	0.0046

Mercury	11508-01-19 18:57 G	5924288.14	5924288.29	5924288.45	0.0088	0.0038
Venus	11508-02-06 04:48 G	5924305.50	5924305.70	5924305.92	0.0088	0.0027
Mercury	11508-04-16 21:21 G	5924376.24	5924376.39	5924376.55	0.0088	0.0030
Mercury	11508-07-13 23:45 G	5924464.34	5924464.49	5924464.66	0.0088	0.0022
Venus	11508-09-18 17:16 G	5924531.05	5924531.22	5924531.42	0.0088	0.0046
Mercury	11508-10-10 02:23 G	5924552.44	5924552.60	5924552.77	0.0088	0.0013
Mercury	11509-01-06 04:48 G	5924640.54	5924640.70	5924640.87	0.0088	0.0006
Mercury	11509-04-04 07:26 G	5924728.64	5924728.81	5924728.98	0.0088	0.0003
Venus	11509-05-02 06:14 G	5924756.61	5924756.76	5924756.91	0.0088	0.0064
Mercury	11509-07-01 09:50 G	5924816.74	5924816.91	5924817.08	0.0088	0.0011
Mercury	11509-09-27 12:14 G	5924904.85	5924905.01	5924905.18	0.0088	0.0020
Venus	11509-12-13 18:28 G	5924982.22	5924982.27	5924982.36	0.0088	0.0083
Mercury	11509-12-24 14:52 G	5924992.96	5924993.12	5924993.28	0.0088	0.0028
Mercury	11510-03-22 17:16 G	5925081.07	5925081.22	5925081.38	0.0088	0.0036
Mercury	11510-06-18 19:40 G	5925169.19	5925169.32	5925169.48	0.0088	0.0045
Mercury	11510-09-14 22:19 G	5925257.30	5925257.43	5925257.57	0.0088	0.0053
Mercury	11510-12-12 00:57 G	5925345.42	5925345.54	5925345.67	0.0088	0.0061
Mercury	11511-03-10 03:21 G	5925433.55	5925433.64	5925433.76	0.0088	0.0070
Mercury	11511-06-06 06:00 G	5925521.68	5925521.75	5925521.84	0.0088	0.0078
Mercury	11511-09-02 08:23 G	5925609.84	5925609.85	5925609.89	0.0088	0.0087
Moon	11538-10-25 15:21 G	5935525.13	5935525.14	5935525.18	0.0088	0.0087
Moon	11539-10-28 00:00 G	5935892.45	5935892.50	5935892.61	0.0088	0.0084
Earth	11539-10-28 01:55 G	5935892.50	5935892.58	5935892.71	0.0088	0.0080 *
Earth	11540-10-29 13:11 G	5936259.93	5936260.05	5936260.24	0.0088	0.0070
Moon	11540-10-29 16:33 G	5936260.04	5936260.19	5936260.37	0.0088	0.0066 *
Moon	11541-10-31 21:36 G	5936627.25	5936627.40	5936627.62	0.0088	0.0063
Earth	11541-11-01 01:11 G	5936627.38	5936627.55	5936627.76	0.0088	0.0059 *
Earth	11542-11-03 12:57 G	5936994.84	5936995.04	5936995.27	0.0088	0.0048
Moon	11542-11-03 16:33 G	5936994.98	5936995.19	5936995.43	0.0088	0.0044 *
Moon	11543-11-05 21:36 G	5937362.19	5937362.40	5937362.64	0.0088	0.0041

Earth	11543-11-06 00:57 G	5937362.31	5937362.54	5937362.79	0.0088	0.0037 *
Earth	11544-11-07 13:11 G	5937729.80	5937730.05	5937730.29	0.0088	0.0026
Moon	11544-11-07 15:50 G	5937729.90	5937730.16	5937730.42	0.0088	0.0022 *
Moon	11545-11-09 22:48 G	5938097.22	5938097.45	5938097.71	0.0088	0.0020
Earth	11545-11-10 01:11 G	5938097.29	5938097.55	5938097.80	0.0088	0.0015 *
Earth	11546-11-12 13:11 G	5938464.79	5938465.05	5938465.31	0.0088	0.0005
Moon	11546-11-12 13:26 G	5938464.79	5938465.06	5938465.33	0.0088	0.0002 *
Earth	11547-11-15 01:11 G	5938832.29	5938832.55	5938832.81	0.0088	0.0007
Moon	11547-11-15 01:40 G	5938832.32	5938832.57	5938832.82	0.0088	0.0003 *
Moon	11548-11-16 11:16 G	5939199.73	5939199.97	5939200.25	0.0088	0.0023
Earth	11548-11-16 13:11 G	5939199.80	5939200.05	5939200.31	0.0088	0.0018 *
Earth	11549-11-19 01:26 G	5939567.31	5939567.56	5939567.81	0.0088	0.0029
Moon	11549-11-19 04:19 G	5939567.44	5939567.68	5939567.93	0.0088	0.0024 *
Moon	11550-11-21 10:04 G	5939934.70	5939934.92	5939935.16	0.0088	0.0044
Earth	11550-11-21 13:11 G	5939934.83	5939935.05	5939935.30	0.0088	0.0040 *
Earth	11551-11-24 01:26 G	5940302.36	5940302.56	5940302.78	0.0088	0.0050
Moon	11551-11-24 05:16 G	5940302.50	5940302.72	5940302.95	0.0088	0.0046 *
Moon	11552-11-25 10:33 G	5940669.78	5940669.94	5940670.12	0.0088	0.0066
Earth	11552-11-25 13:26 G	5940669.90	5940670.06	5940670.27	0.0088	0.0062 *
Earth	11553-11-28 01:40 G	5941037.44	5941037.57	5941037.74	0.0088	0.0072
Moon	11553-11-28 04:48 G	5941037.54	5941037.70	5941037.88	0.0088	0.0068 *
Moon	11554-11-30 12:14 G	5941404.99	5941405.01	5941405.05	0.0088	0.0088
Earth	11554-11-30 14:23 G	5941405.02	5941405.10	5941405.20	0.0088	0.0083 *
Mars	11567-12-21 03:50 G	5946173.42	5946173.66	5946173.95	0.0089	0.0040
Mars	11569-11-14 00:00 G	5946867.27	5946867.50	5946867.77	0.0089	0.0046
Venus	11587-10-03 20:09 G	5953400.24	5953400.34	5953400.48	0.0089	0.0076
Venus	11588-05-16 09:50 G	5953625.74	5953625.91	5953626.08	0.0089	0.0056
Venus	11588-12-27 23:02 G	5953851.27	5953851.46	5953851.67	0.0089	0.0036
Mercury	11589-05-13 18:28 G	5953988.24	5953988.27	5953988.31	0.0089	0.0087
Mercury	11589-08-09 20:09 G	5954076.29	5954076.34	5954076.42	0.0089	0.0079

Venus	11589-08-10 12:28 G	5954076.81	5954077.02	5954077.24	0.0089	0.0016
Mercury	11589-11-05 22:04 G	5954164.35	5954164.42	5954164.52	0.0089	0.0072
Mercury	11590-02-02 00:00 G	5954252.41	5954252.50	5954252.62	0.0089	0.0064
Venus	11590-03-24 01:55 G	5954302.36	5954302.58	5954302.80	0.0089	0.0004
Mercury	11590-05-01 02:09 G	5954340.48	5954340.59	5954340.71	0.0089	0.0056
Mercury	11590-07-28 04:04 G	5954428.55	5954428.67	5954428.80	0.0089	0.0048
Mercury	11590-10-24 05:45 G	5954516.62	5954516.74	5954516.89	0.0089	0.0041
Venus	11590-11-04 15:07 G	5954527.92	5954528.13	5954528.35	0.0089	0.0023
Mercury	11591-01-20 07:40 G	5954604.69	5954604.82	5954604.97	0.0089	0.0033
Mercury	11591-04-18 09:50 G	5954692.77	5954692.91	5954693.05	0.0089	0.0025
Venus	11591-06-18 04:04 G	5954753.50	5954753.67	5954753.88	0.0089	0.0044
Mercury	11591-07-15 11:31 G	5954780.84	5954780.98	5954781.13	0.0089	0.0017
Mercury	11591-10-11 13:26 G	5954868.92	5954869.06	5954869.21	0.0089	0.0010
Mercury	11592-01-07 15:21 G	5954956.99	5954957.14	5954957.29	0.0089	0.0002
Venus	11592-01-29 17:45 G	5954979.09	5954979.24	5954979.40	0.0089	0.0063
Mercury	11592-04-04 17:16 G	5955045.07	5955045.22	5955045.37	0.0089	0.0006
Mercury	11592-07-01 18:57 G	5955133.15	5955133.29	5955133.44	0.0089	0.0014
Venus	11592-09-11 06:43 G	5955204.72	5955204.78	5955204.88	0.0089	0.0083
Mercury	11592-09-27 20:38 G	5955221.23	5955221.36	5955221.51	0.0089	0.0022
Mercury	11592-12-24 22:33 G	5955309.31	5955309.44	5955309.59	0.0089	0.0029
Mercury	11593-03-23 00:14 G	5955397.39	5955397.51	5955397.66	0.0089	0.0037
Mercury	11593-06-19 02:09 G	5955485.47	5955485.59	5955485.73	0.0089	0.0044
Mercury	11593-09-15 03:50 G	5955573.55	5955573.66	5955573.79	0.0089	0.0052
Mercury	11593-12-12 05:45 G	5955661.64	5955661.74	5955661.86	0.0089	0.0059
Mercury	11594-03-10 07:40 G	5955749.72	5955749.82	5955749.92	0.0089	0.0066
Mercury	11594-06-06 09:07 G	5955837.81	5955837.88	5955837.98	0.0089	0.0074
Mercury	11594-09-02 11:02 G	5955925.91	5955925.96	5955926.03	0.0089	0.0081
Mercury	11594-11-29 12:57 G	5956014.02	5956014.04	5956014.07	0.0089	0.0088
Moon	11621-04-29 22:04 G	5965662.32	5965662.42	5965662.58	0.0089	0.0078
Earth	11621-04-29 21:36 G	5965662.33	5965662.40	5965662.54	0.0089	0.0082 *

Earth	11622-05-02 09:36 G	5966029.77	5966029.90	5966030.09	0.0089	0.0071
Moon	11622-05-02 10:33 G	5966029.82	5966029.94	5966030.09	0.0089	0.0074 *
Moon	11623-05-04 19:40 G	5966397.14	5966397.32	5966397.56	0.0089	0.0056
Earth	11623-05-04 21:36 G	5966397.23	5966397.40	5966397.61	0.0089	0.0060 *
Earth	11624-05-06 09:07 G	5966764.69	5966764.88	5966765.12	0.0089	0.0049
Moon	11624-05-06 12:28 G	5966764.82	5966765.02	5966765.23	0.0089	0.0052 *
Moon	11625-05-08 17:45 G	5967132.01	5967132.24	5967132.49	0.0089	0.0033
Earth	11625-05-08 20:52 G	5967132.16	5967132.37	5967132.62	0.0089	0.0038 *
Earth	11626-05-11 08:09 G	5967499.62	5967499.84	5967500.10	0.0089	0.0027
Moon	11626-05-11 12:00 G	5967499.78	5967500.00	5967500.26	0.0089	0.0031 *
Moon	11627-05-13 16:48 G	5967866.96	5967867.20	5967867.46	0.0089	0.0011
Earth	11627-05-13 19:55 G	5967867.08	5967867.33	5967867.59	0.0089	0.0015 *
Earth	11628-05-15 07:11 G	5968234.55	5968234.80	5968235.06	0.0089	0.0004
Moon	11628-05-15 09:50 G	5968234.66	5968234.91	5968235.18	0.0089	0.0009 *
Moon	11629-05-17 16:48 G	5968601.95	5968602.20	5968602.44	0.0089	0.0012
Earth	11629-05-17 18:28 G	5968602.02	5968602.27	5968602.53	0.0089	0.0007 *
Moon	11630-05-20 05:45 G	5968969.48	5968969.74	5968970.01	0.0089	0.0015
Earth	11630-05-20 05:45 G	5968969.49	5968969.74	5968969.99	0.0089	0.0018 *
Earth	11631-05-22 16:48 G	5969336.97	5969337.20	5969337.45	0.0089	0.0029
Moon	11631-05-22 17:31 G	5969337.00	5969337.23	5969337.46	0.0089	0.0033 *
Moon	11632-05-24 01:40 G	5969704.34	5969704.57	5969704.82	0.0089	0.0036
Earth	11632-05-24 03:50 G	5969704.44	5969704.66	5969704.89	0.0089	0.0041 *
Earth	11633-05-26 14:52 G	5970071.92	5970072.12	5970072.34	0.0089	0.0051
Moon	11633-05-26 18:00 G	5970072.06	5970072.25	5970072.45	0.0089	0.0055 *
Moon	11634-05-28 22:33 G	5970439.27	5970439.44	5970439.66	0.0089	0.0058
Earth	11634-05-29 01:55 G	5970439.42	5970439.58	5970439.78	0.0089	0.0062 *
Earth	11635-05-31 12:43 G	5970806.91	5970807.03	5970807.20	0.0089	0.0073
Moon	11635-05-31 17:02 G	5970807.09	5970807.21	5970807.33	0.0089	0.0077 *
Moon	11636-06-01 21:07 G	5971174.28	5971174.38	5971174.51	0.0089	0.0079
Earth	11636-06-02 00:14 G	5971174.43	5971174.51	5971174.60	0.0089	0.0083 *

Mars	11649-09-12 13:55 G	5976024.76	5976025.08	5976025.42	0.0089	0.0018
Mars	11651-08-09 12:43 G	5976720.90	5976721.03	5976721.19	0.0088	0.0080
Jupiter	11660-03-17 10:04 G	5979863.39	5979863.92	5979864.51	0.0088	0.0016
Venus	11669-04-07 21:50 G	5983172.32	5983172.41	5983172.53	0.0088	0.0077
Venus	11669-11-19 10:48 G	5983397.79	5983397.95	5983398.11	0.0088	0.0058
Venus	11670-07-02 23:16 G	5983623.29	5983623.47	5983623.68	0.0088	0.0040
Venus	11671-02-13 12:00 G	5983848.79	5983849.00	5983849.22	0.0088	0.0021
Mercury	11671-05-06 02:23 G	5983930.58	5983930.60	5983930.66	0.0088	0.0085
Mercury	11671-08-02 04:48 G	5984018.64	5984018.70	5984018.80	0.0088	0.0077
Venus	11671-09-27 00:43 G	5984074.31	5984074.53	5984074.75	0.0088	0.0002
Mercury	11671-10-29 07:11 G	5984106.71	5984106.80	5984106.92	0.0088	0.0069
Mercury	11672-01-25 09:36 G	5984194.80	5984194.90	5984195.03	0.0088	0.0061
Mercury	11672-04-22 12:14 G	5984282.88	5984283.01	5984283.15	0.0088	0.0053
Venus	11672-05-09 13:26 G	5984299.85	5984300.06	5984300.28	0.0088	0.0017
Mercury	11672-07-19 14:38 G	5984370.97	5984371.11	5984371.26	0.0088	0.0045
Mercury	11672-10-15 17:02 G	5984459.07	5984459.21	5984459.37	0.0088	0.0037
Venus	11672-12-21 01:55 G	5984525.39	5984525.58	5984525.79	0.0088	0.0036
Mercury	11673-01-11 19:26 G	5984547.16	5984547.31	5984547.48	0.0088	0.0029
Mercury	11673-04-09 21:50 G	5984635.26	5984635.41	5984635.58	0.0088	0.0021
Mercury	11673-07-07 00:28 G	5984723.36	5984723.52	5984723.69	0.0088	0.0012
Venus	11673-08-03 14:23 G	5984750.95	5984751.10	5984751.29	0.0088	0.0055
Mercury	11673-10-03 02:52 G	5984811.46	5984811.62	5984811.79	0.0088	0.0005
Mercury	11673-12-30 05:31 G	5984899.56	5984899.73	5984899.90	0.0088	0.0004
Venus	11674-03-17 03:21 G	5984976.53	5984976.64	5984976.76	0.0088	0.0073
Mercury	11674-03-28 07:55 G	5984987.67	5984987.83	5984988.00	0.0088	0.0012
Mercury	11674-06-24 10:19 G	5985075.77	5985075.93	5985076.10	0.0088	0.0021
Mercury	11674-09-20 12:57 G	5985163.88	5985164.04	5985164.20	0.0088	0.0029
Mercury	11674-12-17 15:21 G	5985251.99	5985252.14	5985252.30	0.0088	0.0037
Mercury	11675-03-15 17:45 G	5985340.11	5985340.24	5985340.40	0.0088	0.0046
Mercury	11675-06-11 20:23 G	5985428.22	5985428.35	5985428.49	0.0088	0.0054

Mercury	11675-09-07 23:02 G	5985516.35	5985516.46	5985516.58	0.0088	0.0062
Mercury	11675-12-05 01:26 G	5985604.47	5985604.56	5985604.67	0.0088	0.0071
Mercury	11676-03-02 04:04 G	5985692.61	5985692.67	5985692.75	0.0088	0.0079
Mercury	11676-05-29 06:43 G	5985780.78	5985780.78	5985780.79	0.0088	0.0088
Earth	11703-10-28 07:11 G	5995792.75	5995792.80	5995792.90	0.0088	0.0084
Moon	11703-10-28 10:04 G	5995792.91	5995792.92	5995792.98	0.0088	0.0087
Moon	11704-10-29 15:36 G	5996160.00	5996160.15	5996160.30	0.0088	0.0070
Earth	11704-10-29 18:57 G	5996160.17	5996160.29	5996160.45	0.0088	0.0074 *
Earth	11705-11-01 06:43 G	5996527.60	5996527.78	5996527.96	0.0088	0.0063
Moon	11705-11-01 10:04 G	5996527.75	5996527.92	5996528.09	0.0088	0.0066 *
Moon	11706-11-03 14:38 G	5996894.93	5996895.11	5996895.34	0.0088	0.0051
Earth	11706-11-03 18:00 G	5996895.06	5996895.25	5996895.48	0.0088	0.0053 *
Earth	11707-11-06 06:00 G	5997262.53	5997262.75	5997262.98	0.0088	0.0042
Moon	11707-11-06 07:55 G	5997262.62	5997262.83	5997263.08	0.0088	0.0045 *
Moon	11708-11-07 16:48 G	5997629.97	5997630.20	5997630.45	0.0088	0.0029
Earth	11708-11-07 17:31 G	5997630.00	5997630.23	5997630.49	0.0088	0.0032 *
Earth	11709-11-10 05:31 G	5997997.49	5997997.73	5997997.99	0.0088	0.0021
Moon	11709-11-10 05:45 G	5997997.49	5997997.74	5997998.01	0.0088	0.0023 *
Earth	11710-11-12 17:31 G	5998364.98	5998365.23	5998365.49	0.0088	0.0010
Moon	11710-11-12 18:57 G	5998365.05	5998365.29	5998365.55	0.0088	0.0008 *
Moon	11711-11-15 03:21 G	5998732.37	5998732.64	5998732.90	0.0088	0.0002
Earth	11711-11-15 05:45 G	5998732.48	5998732.74	5998733.00	0.0088	0.0001 *
Earth	11712-11-16 18:00 G	5999099.99	5999100.25	5999100.51	0.0088	0.0011
Moon	11712-11-16 20:52 G	5999100.12	5999100.37	5999100.63	0.0088	0.0013 *
Moon	11713-11-19 01:55 G	5999467.34	5999467.58	5999467.85	0.0088	0.0020
Earth	11713-11-19 05:45 G	5999467.50	5999467.74	5999468.01	0.0088	0.0023 *
Earth	11714-11-21 17:45 G	5999835.02	5999835.24	5999835.50	0.0088	0.0033
Moon	11714-11-21 21:07 G	5999835.16	5999835.38	5999835.64	0.0088	0.0035 *
Moon	11715-11-24 02:52 G	6000202.41	6000202.62	6000202.86	0.0088	0.0043
Earth	11715-11-24 06:28 G	6000202.54	6000202.77	6000203.00	0.0088	0.0044 *

Earth	11716-11-25 18:14 G	6000570.07	6000570.26	6000570.48	0.0088	0.0055
Moon	11716-11-25 20:23 G	6000570.17	6000570.35	6000570.58	0.0088	0.0056 *
Moon	11717-11-28 05:45 G	6000937.57	6000937.74	6000937.92	0.0088	0.0064
Earth	11717-11-28 06:14 G	6000937.61	6000937.76	6000937.96	0.0088	0.0066 *
Earth	11718-11-30 18:43 G	6001305.16	6001305.28	6001305.43	0.0088	0.0076
Moon	11718-11-30 18:43 G	6001305.18	6001305.28	6001305.45	0.0088	0.0077 *
Earth	11719-12-03 06:43 G	6001672.76	6001672.78	6001672.87	0.0088	0.0087
Moon	11719-12-03 08:38 G	6001672.80	6001672.86	6001672.94	0.0088	0.0085 *
Mars	11731-08-06 04:48 G	6005936.61	6005936.70	6005936.86	0.0089	0.0081
Mars	11733-06-30 02:52 G	6006630.33	6006630.62	6006630.92	0.0089	0.0005
Venus	11752-01-06 03:50 G	6013394.62	6013394.66	6013394.72	0.0089	0.0087
Venus	11752-08-18 16:48 G	6013620.08	6013620.20	6013620.37	0.0089	0.0068
Venus	11753-04-01 06:28 G	6013845.60	6013845.77	6013845.97	0.0089	0.0047
Venus	11753-11-12 19:55 G	6014071.13	6014071.33	6014071.55	0.0089	0.0028
Mercury	11754-02-08 16:48 G	6014159.18	6014159.20	6014159.25	0.0089	0.0087
Mercury	11754-05-07 18:43 G	6014247.22	6014247.28	6014247.36	0.0089	0.0079
Venus	11754-06-26 09:36 G	6014296.68	6014296.90	6014297.12	0.0089	0.0008
Mercury	11754-08-03 20:52 G	6014335.28	6014335.37	6014335.46	0.0089	0.0071
Mercury	11754-10-30 22:48 G	6014423.35	6014423.45	6014423.56	0.0089	0.0063
Mercury	11755-01-27 00:28 G	6014511.42	6014511.52	6014511.65	0.0089	0.0056
Venus	11755-02-06 22:48 G	6014522.23	6014522.45	6014522.67	0.0089	0.0012
Mercury	11755-04-25 02:23 G	6014599.49	6014599.60	6014599.74	0.0089	0.0048
Mercury	11755-07-22 04:33 G	6014687.56	6014687.69	6014687.83	0.0089	0.0040
Venus	11755-09-20 11:45 G	6014747.80	6014747.99	6014748.21	0.0089	0.0032
Mercury	11755-10-18 06:28 G	6014775.63	6014775.77	6014775.91	0.0089	0.0032
Mercury	11756-01-14 08:09 G	6014863.71	6014863.84	6014863.99	0.0089	0.0025
Mercury	11756-04-11 10:04 G	6014951.78	6014951.92	6014952.07	0.0089	0.0017
Venus	11756-05-03 01:11 G	6014973.38	6014973.55	6014973.74	0.0089	0.0052
Mercury	11756-07-08 12:00 G	6015039.86	6015040.00	6015040.15	0.0089	0.0009
Mercury	11756-10-04 13:55 G	6015127.93	6015128.08	6015128.23	0.0089	0.0002



Venus	11756-12-14 14:23 G	6015198.99	6015199.10	6015199.25	0.0089	0.0072
Mercury	11756-12-31 15:50 G	6015216.01	6015216.16	6015216.31	0.0089	0.0006
Mercury	11757-03-29 17:31 G	6015304.09	6015304.23	6015304.38	0.0089	0.0014
Mercury	11757-06-25 19:26 G	6015392.17	6015392.31	6015392.46	0.0089	0.0022
Mercury	11757-09-21 21:07 G	6015480.25	6015480.38	6015480.53	0.0089	0.0030
Mercury	11757-12-18 23:02 G	6015568.33	6015568.46	6015568.60	0.0089	0.0037
Mercury	11758-03-17 00:43 G	6015656.41	6015656.53	6015656.67	0.0089	0.0044
Mercury	11758-06-13 02:38 G	6015744.50	6015744.61	6015744.73	0.0089	0.0052
Mercury	11758-09-09 04:33 G	6015832.58	6015832.69	6015832.80	0.0089	0.0059
Mercury	11758-12-06 06:00 G	6015920.67	6015920.75	6015920.86	0.0089	0.0067
Mercury	11759-03-04 07:55 G	6016008.76	6016008.83	6016008.92	0.0089	0.0074
Mercury	11759-05-31 09:36 G	6016096.85	6016096.90	6016096.97	0.0089	0.0081
Mercury	11759-08-27 11:16 G	6016184.97	6016184.97	6016185.00	0.0089	0.0089
Earth	11785-04-30 02:23 G	6025562.55	6025562.60	6025562.69	0.0089	0.0086
Moon	11785-04-30 04:19 G	6025562.59	6025562.68	6025562.78	0.0089	0.0082 *
Moon	11786-05-02 11:31 G	6025929.89	6025929.98	6025930.14	0.0089	0.0079
Earth	11786-05-02 14:23 G	6025929.98	6025930.10	6025930.26	0.0089	0.0075 *
Earth	11787-05-05 01:55 G	6026297.43	6026297.58	6026297.79	0.0089	0.0065
Moon	11787-05-05 05:02 G	6026297.55	6026297.71	6026297.92	0.0089	0.0062 *
Moon	11788-05-06 10:04 G	6026664.75	6026664.92	6026665.15	0.0089	0.0058
Earth	11788-05-06 13:55 G	6026664.90	6026665.08	6026665.31	0.0089	0.0054 *
Earth	11789-05-09 01:40 G	6027032.36	6027032.57	6027032.81	0.0089	0.0043
Moon	11789-05-09 05:16 G	6027032.50	6027032.72	6027032.96	0.0089	0.0039 *
Moon	11790-05-11 10:19 G	6027399.71	6027399.93	6027400.18	0.0089	0.0035
Earth	11790-05-11 13:40 G	6027399.84	6027400.07	6027400.32	0.0089	0.0031 *
Earth	11791-05-14 01:11 G	6027767.31	6027767.55	6027767.80	0.0089	0.0021
Moon	11791-05-14 03:07 G	6027767.38	6027767.63	6027767.90	0.0089	0.0018 *
Moon	11792-05-15 11:31 G	6028134.75	6028134.98	6028135.23	0.0089	0.0013
Earth	11792-05-15 12:43 G	6028134.77	6028135.03	6028135.28	0.0089	0.0010 *
Moon	11793-05-18 00:00 G	6028502.23	6028502.50	6028502.76	0.0089	0.0004

Earth	11793-05-18 00:00 G	6028502.24	6028502.50	6028502.75	0.0089	0.0001	*
Earth	11794-05-20 11:02 G	6028869.72	6028869.96	6028870.22	0.0089	0.0012	
Moon	11794-05-20 12:57 G	6028869.79	6028870.04	6028870.29	0.0089	0.0009	*
Moon	11795-05-22 19:40 G	6029237.08	6029237.32	6029237.58	0.0089	0.0026	
Earth	11795-05-22 22:04 G	6029237.19	6029237.42	6029237.68	0.0089	0.0023	*
Earth	11796-05-24 09:36 G	6029604.66	6029604.90	6029605.13	0.0089	0.0034	
Moon	11796-05-24 12:43 G	6029604.79	6029605.03	6029605.26	0.0089	0.0032	*
Moon	11797-05-26 16:48 G	6029972.00	6029972.20	6029972.43	0.0089	0.0047	
Earth	11797-05-26 20:23 G	6029972.14	6029972.35	6029972.58	0.0089	0.0045	*
Earth	11798-05-29 07:11 G	6030339.62	6030339.80	6030340.02	0.0089	0.0055	
Moon	11798-05-29 10:33 G	6030339.75	6030339.94	6030340.17	0.0089	0.0053	*
Moon	11799-05-31 15:36 G	6030707.00	6030707.15	6030707.32	0.0089	0.0067	
Earth	11799-05-31 18:43 G	6030707.12	6030707.28	6030707.46	0.0089	0.0065	*
Earth	11800-06-03 05:16 G	6031074.61	6031074.72	6031074.87	0.0089	0.0076	
Moon	11800-06-03 07:26 G	6031074.67	6031074.81	6031074.96	0.0089	0.0073	*
Moon	11801-06-05 15:50 G	6031442.14	6031442.16	6031442.21	0.0089	0.0088	
Earth	11801-06-05 16:33 G	6031442.14	6031442.19	6031442.27	0.0089	0.0086	*
Mars	11813-04-28 00:14 G	6035786.31	6035786.51	6035786.78	0.0089	0.0064	
Mars	11815-03-24 21:36 G	6036482.11	6036482.40	6036482.73	0.0089	0.0034	
Jupiter	11826-05-17 18:43 G	6040553.80	6040554.28	6040554.81	0.0088	0.0040	
Venus	11833-07-12 06:43 G	6043166.77	6043166.78	6043166.84	0.0088	0.0087	
Venus	11834-02-22 19:26 G	6043392.19	6043392.31	6043392.47	0.0088	0.0068	
Venus	11834-10-06 08:23 G	6043617.67	6043617.85	6043618.03	0.0088	0.0049	
Venus	11835-05-19 21:07 G	6043843.18	6043843.38	6043843.59	0.0088	0.0030	
Venus	11835-12-31 09:36 G	6044068.69	6044068.90	6044069.13	0.0088	0.0012	
Mercury	11836-02-02 00:57 G	6044101.50	6044101.54	6044101.60	0.0088	0.0083	
Mercury	11836-04-30 03:21 G	6044189.56	6044189.64	6044189.73	0.0088	0.0075	
Mercury	11836-07-27 05:45 G	6044277.64	6044277.74	6044277.85	0.0088	0.0067	
Venus	11836-08-12 22:19 G	6044294.21	6044294.43	6044294.65	0.0088	0.0007	
Mercury	11836-10-23 07:55 G	6044365.72	6044365.83	6044365.97	0.0088	0.0060	

Mercury	11837-01-19 10:19 G	6044453.81	6044453.93	6044454.08	0.0088	0.0052
Venus	11837-03-26 10:48 G	6044519.75	6044519.95	6044520.17	0.0088	0.0026
Mercury	11837-04-17 12:43 G	6044541.90	6044542.03	6044542.19	0.0088	0.0044
Mercury	11837-07-14 15:07 G	6044629.99	6044630.13	6044630.30	0.0088	0.0036
Mercury	11837-10-10 18:00 G	6044718.09	6044718.25	6044718.40	0.0088	0.0027
Venus	11837-11-06 23:16 G	6044745.30	6044745.47	6044745.67	0.0088	0.0045
Mercury	11838-01-06 20:23 G	6044806.18	6044806.35	6044806.51	0.0088	0.0019
Mercury	11838-04-04 22:48 G	6044894.28	6044894.45	6044894.62	0.0088	0.0011
Venus	11838-06-20 12:00 G	6044970.87	6044971.00	6044971.17	0.0088	0.0064
Mercury	11838-07-02 01:11 G	6044982.38	6044982.55	6044982.72	0.0088	0.0003
Mercury	11838-09-28 03:36 G	6045070.49	6045070.65	6045070.82	0.0088	0.0006
Mercury	11838-12-25 06:00 G	6045158.59	6045158.75	6045158.92	0.0088	0.0014
Venus	11839-02-01 00:57 G	6045196.47	6045196.54	6045196.62	0.0088	0.0082
Mercury	11839-03-23 08:38 G	6045246.70	6045246.86	6045247.02	0.0088	0.0022
Mercury	11839-06-19 11:02 G	6045334.81	6045334.96	6045335.12	0.0088	0.0030
Mercury	11839-09-15 13:26 G	6045422.92	6045423.06	6045423.22	0.0088	0.0039
Mercury	11839-12-12 16:04 G	6045511.03	6045511.17	6045511.32	0.0088	0.0047
Mercury	11840-03-09 18:43 G	6045599.15	6045599.28	6045599.41	0.0088	0.0055
Mercury	11840-06-05 20:52 G	6045687.27	6045687.37	6045687.50	0.0088	0.0064
Mercury	11840-09-01 23:31 G	6045775.40	6045775.48	6045775.59	0.0088	0.0072
Mercury	11840-11-29 01:55 G	6045863.53	6045863.58	6045863.67	0.0088	0.0081
Moon	11867-10-28 10:04 G	6055692.88	6055692.92	6055693.02	0.0088	0.0085
Earth	11867-10-28 13:55 G	6055693.08	6055693.08	6055693.12	0.0088	0.0088
Earth	11868-10-30 00:57 G	6056060.45	6056060.54	6056060.69	0.0088	0.0078
Moon	11868-10-30 04:33 G	6056060.61	6056060.69	6056060.82	0.0088	0.0081 *
Moon	11869-11-01 10:33 G	6056427.78	6056427.94	6056428.12	0.0088	0.0065
Earth	11869-11-01 12:28 G	6056427.88	6056428.02	6056428.21	0.0088	0.0068 *
Earth	11870-11-04 00:28 G	6056795.33	6056795.52	6056795.72	0.0088	0.0057
Moon	11870-11-04 02:23 G	6056795.41	6056795.60	6056795.79	0.0088	0.0060 *
Moon	11871-11-06 11:31 G	6057162.77	6057162.98	6057163.21	0.0088	0.0044

Earth	11871-11-06 12:00 G	6057162.79	6057163.00	6057163.23	0.0088	0.0047 *
Moon	11872-11-07 22:33 G	6057530.20	6057530.44	6057530.68	0.0088	0.0039
Earth	11872-11-07 23:31 G	6057530.26	6057530.48	6057530.73	0.0088	0.0037 *
Earth	11873-11-10 11:16 G	6057897.73	6057897.97	6057898.22	0.0088	0.0026
Moon	11873-11-10 12:57 G	6057897.80	6057898.04	6057898.29	0.0088	0.0023 *
Moon	11874-11-12 20:09 G	6058265.08	6058265.34	6058265.60	0.0088	0.0019
Earth	11874-11-12 23:02 G	6058265.21	6058265.46	6058265.73	0.0088	0.0016 *
Earth	11875-11-15 11:02 G	6058632.70	6058632.96	6058633.22	0.0088	0.0006
Moon	11875-11-15 14:38 G	6058632.85	6058633.11	6058633.37	0.0088	0.0002 *
Moon	11876-11-16 19:40 G	6059000.06	6059000.32	6059000.58	0.0088	0.0002
Earth	11876-11-16 23:02 G	6059000.20	6059000.46	6059000.72	0.0088	0.0006 *
Earth	11877-11-19 11:02 G	6059367.71	6059367.96	6059368.22	0.0088	0.0016
Moon	11877-11-19 14:23 G	6059367.86	6059368.10	6059368.37	0.0088	0.0020 *
Moon	11878-11-21 20:52 G	6059735.13	6059735.37	6059735.62	0.0088	0.0023
Earth	11878-11-21 23:16 G	6059735.23	6059735.47	6059735.72	0.0088	0.0027 *
Earth	11879-11-24 11:16 G	6060102.75	6060102.97	6060103.22	0.0088	0.0037
Moon	11879-11-24 12:57 G	6060102.82	6060103.04	6060103.30	0.0088	0.0041 *
Moon	11880-11-25 22:48 G	6060470.25	6060470.45	6060470.69	0.0088	0.0044
Earth	11880-11-25 23:45 G	6060470.27	6060470.49	6060470.71	0.0088	0.0048 *
Moon	11881-11-28 10:19 G	6060837.76	6060837.93	6060838.14	0.0088	0.0062
Earth	11881-11-28 11:16 G	6060837.80	6060837.97	6060838.19	0.0088	0.0059 *
Earth	11882-11-30 23:45 G	6061205.34	6061205.49	6061205.67	0.0088	0.0069
Moon	11882-12-01 01:26 G	6061205.40	6061205.56	6061205.74	0.0088	0.0065 *
Moon	11883-12-03 09:21 G	6061572.80	6061572.89	6061572.98	0.0088	0.0083
Earth	11883-12-03 12:14 G	6061572.91	6061573.01	6061573.14	0.0088	0.0079 *
Moon	11884-12-05 03:21 G	6061940.61	6061940.64	6061940.74	0.0088	0.0086
Mars	11897-02-13 05:16 G	6066393.46	6066393.72	6066394.01	0.0089	0.0035
Mars	11899-01-08 02:38 G	6067087.39	6067087.61	6067087.87	0.0089	0.0050
Venus	11916-11-22 01:11 G	6073614.44	6073614.55	6073614.66	0.0089	0.0078
Venus	11917-07-05 14:09 G	6073839.94	6073840.09	6073840.27	0.0089	0.0058

Venus	11918-02-16 03:36 G	6074065.46	6074065.65	6074065.86	0.0089	0.0039
Venus	11918-09-29 17:02 G	6074291.00	6074291.21	6074291.43	0.0089	0.0019
Mercury	11918-11-07 15:36 G	6074330.11	6074330.15	6074330.19	0.0089	0.0086
Mercury	11919-02-03 17:31 G	6074418.16	6074418.23	6074418.30	0.0089	0.0078
Mercury	11919-05-02 19:11 G	6074506.22	6074506.30	6074506.41	0.0089	0.0070
Venus	11919-05-13 06:28 G	6074516.55	6074516.77	6074516.99	0.0089	0.0002
Mercury	11919-07-29 21:07 G	6074594.29	6074594.38	6074594.50	0.0089	0.0063
Mercury	11919-10-25 23:16 G	6074682.36	6074682.47	6074682.59	0.0089	0.0054
Venus	11919-12-24 19:40 G	6074742.12	6074742.32	6074742.55	0.0089	0.0022
Mercury	11920-01-22 01:11 G	6074770.43	6074770.55	6074770.68	0.0089	0.0047
Mercury	11920-04-19 03:07 G	6074858.50	6074858.63	6074858.77	0.0089	0.0039
Mercury	11920-07-16 05:02 G	6074946.57	6074946.71	6074946.85	0.0089	0.0031
Venus	11920-08-06 08:52 G	6074967.69	6074967.87	6074968.08	0.0089	0.0042
Mercury	11920-10-12 06:57 G	6075034.65	6075034.79	6075034.94	0.0089	0.0023
Mercury	11921-01-08 08:52 G	6075122.72	6075122.87	6075123.02	0.0089	0.0016
Venus	11921-03-19 22:33 G	6075193.28	6075193.44	6075193.60	0.0089	0.0061
Mercury	11921-04-06 10:48 G	6075210.80	6075210.95	6075211.10	0.0089	0.0008
Mercury	11921-07-03 12:43 G	6075298.88	6075299.03	6075299.17	0.0089	0.0002
Mercury	11921-09-29 14:23 G	6075386.96	6075387.10	6075387.25	0.0089	0.0008
Venus	11921-10-31 11:31 G	6075418.90	6075418.98	6075419.09	0.0089	0.0081
Mercury	11921-12-26 16:19 G	6075475.04	6075475.18	6075475.33	0.0089	0.0015
Mercury	11922-03-24 18:00 G	6075563.11	6075563.25	6075563.40	0.0089	0.0023
Mercury	11922-06-20 19:55 G	6075651.19	6075651.33	6075651.47	0.0089	0.0030
Mercury	11922-09-16 21:36 G	6075739.28	6075739.40	6075739.54	0.0089	0.0038
Mercury	11922-12-13 23:16 G	6075827.36	6075827.47	6075827.61	0.0089	0.0046
Mercury	11923-03-12 01:11 G	6075915.44	6075915.55	6075915.68	0.0089	0.0053
Mercury	11923-06-08 03:07 G	6076003.53	6076003.63	6076003.74	0.0089	0.0060
Mercury	11923-09-04 04:48 G	6076091.62	6076091.70	6076091.81	0.0089	0.0067
Mercury	11923-12-01 06:43 G	6076179.71	6076179.78	6076179.86	0.0089	0.0075
Mercury	11924-02-27 08:38 G	6076267.80	6076267.86	6076267.92	0.0089	0.0082

Mercury	11924-05-25 10:19 G	6076355.93	6076355.93	6076355.94	0.0089	0.0089
Earth	11950-05-03 18:57 G	6085830.20	6085830.29	6085830.43	0.0089	0.0080
Moon	11950-05-03 22:19 G	6085830.33	6085830.43	6085830.59	0.0089	0.0078 *
Moon	11951-05-06 03:36 G	6086197.51	6086197.65	6086197.81	0.0089	0.0072
Earth	11951-05-06 07:11 G	6086197.65	6086197.80	6086197.97	0.0089	0.0069 *
Earth	11952-05-07 18:28 G	6086565.10	6086565.27	6086565.49	0.0089	0.0059
Moon	11952-05-07 21:50 G	6086565.23	6086565.41	6086565.64	0.0089	0.0056 *
Moon	11953-05-10 04:19 G	6086932.49	6086932.68	6086932.90	0.0089	0.0051
Earth	11953-05-10 06:43 G	6086932.57	6086932.78	6086933.01	0.0089	0.0048 *
Earth	11954-05-12 18:14 G	6087300.05	6087300.26	6087300.51	0.0089	0.0038
Moon	11954-05-12 20:23 G	6087300.11	6087300.35	6087300.60	0.0089	0.0034 *
Moon	11955-05-15 06:00 G	6087667.52	6087667.75	6087667.99	0.0089	0.0029
Earth	11955-05-15 06:00 G	6087667.52	6087667.75	6087668.01	0.0089	0.0027 *
Moon	11956-05-16 16:33 G	6088034.94	6088035.19	6088035.46	0.0089	0.0013
Earth	11956-05-16 18:00 G	6088035.00	6088035.25	6088035.50	0.0089	0.0015 *
Earth	11957-05-19 05:31 G	6088402.47	6088402.73	6088402.99	0.0089	0.0005
Moon	11957-05-19 07:11 G	6088402.56	6088402.80	6088403.05	0.0089	0.0008 *
Moon	11958-05-21 13:40 G	6088769.81	6088770.07	6088770.33	0.0089	0.0009
Earth	11958-05-21 16:48 G	6088769.95	6088770.20	6088770.46	0.0089	0.0006 *
Earth	11959-05-24 03:50 G	6089137.42	6089137.66	6089137.93	0.0089	0.0017
Moon	11959-05-24 07:40 G	6089137.57	6089137.82	6089138.07	0.0089	0.0014 *
Moon	11960-05-25 11:31 G	6089504.76	6089504.98	6089505.24	0.0089	0.0031
Earth	11960-05-25 15:07 G	6089504.90	6089505.13	6089505.39	0.0089	0.0028 *
Earth	11961-05-28 02:09 G	6089872.38	6089872.59	6089872.84	0.0089	0.0038
Moon	11961-05-28 05:31 G	6089872.51	6089872.73	6089872.99	0.0089	0.0034 *
Moon	11962-05-30 11:31 G	6090239.79	6090239.98	6090240.19	0.0089	0.0052
Earth	11962-05-30 13:26 G	6090239.86	6090240.06	6090240.29	0.0089	0.0049 *
Earth	11963-06-02 00:14 G	6090607.34	6090607.51	6090607.73	0.0089	0.0059
Moon	11963-06-02 01:55 G	6090607.40	6090607.58	6090607.81	0.0089	0.0055 *
Earth	11964-06-03 11:16 G	6090974.84	6090974.97	6090975.16	0.0089	0.0069

Moon	11964-06-03 11:16 G	6090974.86	6090974.97	6090975.14	0.0089	0.0073 *
Moon	11965-06-05 21:07 G	6091342.27	6091342.38	6091342.54	0.0089	0.0076
Earth	11965-06-05 22:33 G	6091342.35	6091342.44	6091342.58	0.0089	0.0079 *
Mars	11978-11-06 09:50 G	6096243.58	6096243.91	6096244.24	0.0089	0.0012
Mars	11980-10-02 06:43 G	6096939.73	6096939.78	6096939.91	0.0089	0.0086
Venus	11998-05-28 05:02 G	6103386.61	6103386.71	6103386.82	0.0088	0.0077
Venus	11999-01-08 17:16 G	6103612.08	6103612.22	6103612.41	0.0088	0.0059
Venus	11999-08-22 06:00 G	6103837.57	6103837.75	6103837.96	0.0088	0.0040
Venus	12000-04-03 18:43 G	6104063.08	6104063.28	6104063.50	0.0088	0.0021
Mercury	12000-10-29 23:31 G	6104272.43	6104272.48	6104272.55	0.0088	0.0081
Venus	12000-11-15 07:40 G	6104288.60	6104288.82	6104289.04	0.0088	0.0002

# 13TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 13th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	12001-01-26 01:55 G	6104360.50	6104360.58	6104360.67	0.0088	0.0073		
Mercury	12001-04-24 04:04 G	6104448.57	6104448.67	6104448.79	0.0088	0.0066		
Venus	12001-06-28 20:09 G	6104514.13	6104514.34	6104514.56	0.0088	0.0017		
Mercury	12001-07-21 06:28 G	6104536.66	6104536.77	6104536.91	0.0088	0.0058		
Mercury	12001-10-17 08:52 G	6104624.74	6104624.87	6104625.02	0.0088	0.0050		
Mercury	12002-01-13 11:16 G	6104712.83	6104712.97	6104713.13	0.0088	0.0042		
Venus	12002-02-09 08:38 G	6104739.67	6104739.86	6104740.08	0.0088	0.0036		

Mercury	12002-04-11 13:40 G	6104800.93	6104801.07	6104801.23	0.0088	0.0034
Mercury	12002-07-08 16:04 G	6104889.02	6104889.17	6104889.34	0.0088	0.0026
Venus	12002-09-22 21:36 G	6104965.23	6104965.40	6104965.57	0.0088	0.0054
Mercury	12002-10-04 18:28 G	6104977.12	6104977.27	6104977.45	0.0088	0.0018
Mercury	12002-12-31 21:07 G	6105065.22	6105065.38	6105065.55	0.0088	0.0009
Mercury	12003-03-29 23:31 G	6105153.32	6105153.48	6105153.65	0.0088	0.0003
Venus	12003-05-06 10:04 G	6105190.81	6105190.92	6105191.05	0.0088	0.0073
Mercury	12003-06-26 02:09 G	6105241.42	6105241.59	6105241.75	0.0088	0.0007
Mercury	12003-09-22 04:33 G	6105329.52	6105329.69	6105329.86	0.0088	0.0015
Mercury	12003-12-19 06:57 G	6105417.63	6105417.79	6105417.96	0.0088	0.0024
Mercury	12004-03-16 09:21 G	6105505.74	6105505.89	6105506.05	0.0088	0.0032
Mercury	12004-06-12 12:00 G	6105593.85	6105594.00	6105594.15	0.0088	0.0040
Mercury	12004-09-08 14:09 G	6105681.97	6105682.09	6105682.25	0.0088	0.0049
Mercury	12004-12-05 16:48 G	6105770.08	6105770.20	6105770.34	0.0088	0.0057
Mercury	12005-03-03 19:40 G	6105858.21	6105858.32	6105858.43	0.0088	0.0065
Mercury	12005-05-30 21:50 G	6105946.33	6105946.41	6105946.52	0.0088	0.0074
Mercury	12005-08-27 00:28 G	6106034.47	6106034.52	6106034.59	0.0088	0.0082
Moon	12031-10-28 23:31 G	6115593.47	6115593.48	6115593.54	0.0088	0.0087
Moon	12032-10-30 05:45 G	6115960.70	6115960.74	6115960.83	0.0088	0.0085
Earth	12032-10-30 08:09 G	6115960.76	6115960.84	6115960.96	0.0088	0.0081 *
Earth	12033-11-01 19:55 G	6116328.19	6116328.33	6116328.49	0.0088	0.0071
Moon	12033-11-01 20:23 G	6116328.20	6116328.35	6116328.54	0.0088	0.0067 *
Earth	12034-11-04 07:26 G	6116695.64	6116695.81	6116696.01	0.0088	0.0061
Moon	12034-11-04 07:26 G	6116695.66	6116695.81	6116696.00	0.0088	0.0065 *
Moon	12035-11-06 17:16 G	6117063.02	6117063.22	6117063.47	0.0088	0.0048
Earth	12035-11-06 19:11 G	6117063.09	6117063.30	6117063.52	0.0088	0.0051 *
Earth	12036-11-08 06:28 G	6117430.55	6117430.77	6117431.01	0.0088	0.0041
Moon	12036-11-08 09:21 G	6117430.68	6117430.89	6117431.11	0.0088	0.0045 *
Moon	12037-11-10 15:07 G	6117797.89	6117798.13	6117798.39	0.0088	0.0027
Earth	12037-11-10 18:14 G	6117798.03	6117798.26	6117798.51	0.0088	0.0031 *



Earth	12038-11-13 05:45 G	6118165.50	6118165.74	6118166.01	0.0088	0.0021
Moon	12038-11-13 09:36 G	6118165.66	6118165.90	6118166.16	0.0088	0.0024 *
Moon	12039-11-15 14:23 G	6118532.85	6118533.10	6118533.36	0.0088	0.0007
Earth	12039-11-15 18:00 G	6118532.99	6118533.25	6118533.51	0.0088	0.0010 *
Earth	12040-11-17 05:45 G	6118900.48	6118900.74	6118901.00	0.0088	0.0001
Moon	12040-11-17 08:38 G	6118900.60	6118900.86	6118901.13	0.0088	0.0003 *
Moon	12041-11-19 15:21 G	6119267.89	6119268.14	6119268.39	0.0088	0.0013
Earth	12041-11-19 17:31 G	6119267.98	6119268.23	6119268.49	0.0088	0.0010 *
Earth	12042-11-22 05:31 G	6119635.49	6119635.73	6119635.99	0.0088	0.0021
Moon	12042-11-22 06:14 G	6119635.50	6119635.76	6119636.03	0.0088	0.0018 *
Earth	12043-11-24 17:31 G	6120003.00	6120003.23	6120003.49	0.0088	0.0031
Moon	12043-11-24 17:45 G	6120003.02	6120003.24	6120003.49	0.0088	0.0034 *
Moon	12044-11-26 04:19 G	6120370.45	6120370.68	6120370.93	0.0088	0.0039
Earth	12044-11-26 05:45 G	6120370.52	6120370.74	6120370.98	0.0088	0.0041 *
Earth	12045-11-28 18:00 G	6120738.05	6120738.25	6120738.47	0.0088	0.0052
Moon	12045-11-28 20:23 G	6120738.17	6120738.35	6120738.57	0.0088	0.0055 *
Moon	12046-12-01 02:52 G	6121105.45	6121105.62	6121105.84	0.0088	0.0059
Earth	12046-12-01 06:00 G	6121105.59	6121105.75	6121105.96	0.0088	0.0062 *
Earth	12047-12-03 18:00 G	6121473.13	6121473.25	6121473.43	0.0088	0.0072
Moon	12047-12-03 21:50 G	6121473.30	6121473.41	6121473.57	0.0088	0.0075 *
Moon	12048-12-05 02:52 G	6121840.54	6121840.62	6121840.76	0.0088	0.0079
Earth	12048-12-05 06:14 G	6121840.70	6121840.76	6121840.89	0.0088	0.0083 *
Mars	12060-09-29 08:38 G	6126156.72	6126156.86	6126157.05	0.0089	0.0074
Mars	12062-08-24 06:57 G	6126850.50	6126850.79	6126851.09	0.0089	0.0011
Venus	12081-02-23 09:07 G	6133608.87	6133608.88	6133608.94	0.0089	0.0088
Venus	12081-10-06 22:33 G	6133834.32	6133834.44	6133834.60	0.0089	0.0069
Venus	12082-05-20 12:00 G	6134059.83	6134060.00	6134060.20	0.0089	0.0049
Venus	12083-01-01 01:40 G	6134285.37	6134285.57	6134285.78	0.0089	0.0029
Mercury	12083-08-04 14:09 G	6134501.05	6134501.09	6134501.15	0.0089	0.0085
Venus	12083-08-14 15:07 G	6134510.91	6134511.13	6134511.35	0.0089	0.0009

Mercury	12083-10-31 16:04 G	6134589.11	6134589.17	6134589.26	0.0089	0.0077
Mercury	12084-01-27 18:14 G	6134677.17	6134677.26	6134677.36	0.0089	0.0069
Venus	12084-03-27 04:19 G	6134736.47	6134736.68	6134736.90	0.0089	0.0011
Mercury	12084-04-24 20:09 G	6134765.24	6134765.34	6134765.46	0.0089	0.0061
Mercury	12084-07-21 21:50 G	6134853.31	6134853.41	6134853.55	0.0089	0.0054
Mercury	12084-10-18 00:00 G	6134941.38	6134941.50	6134941.64	0.0089	0.0045
Venus	12084-11-07 17:31 G	6134962.04	6134962.23	6134962.45	0.0089	0.0031
Mercury	12085-01-14 01:55 G	6135029.45	6135029.58	6135029.72	0.0089	0.0038
Mercury	12085-04-12 03:50 G	6135117.53	6135117.66	6135117.81	0.0089	0.0030
Venus	12085-06-21 06:57 G	6135187.62	6135187.79	6135187.98	0.0089	0.0051
Mercury	12085-07-09 05:45 G	6135205.60	6135205.74	6135205.89	0.0089	0.0022
Mercury	12085-10-05 07:40 G	6135293.68	6135293.82	6135293.97	0.0089	0.0014
Mercury	12086-01-01 09:36 G	6135381.75	6135381.90	6135382.05	0.0089	0.0007
Venus	12086-02-01 20:09 G	6135413.22	6135413.34	6135413.49	0.0089	0.0071
Mercury	12086-03-30 11:31 G	6135469.83	6135469.98	6135470.13	0.0089	0.0001
Mercury	12086-06-26 13:26 G	6135557.91	6135558.06	6135558.21	0.0089	0.0009
Mercury	12086-09-22 15:07 G	6135645.99	6135646.13	6135646.28	0.0089	0.0017
Mercury	12086-12-19 17:02 G	6135734.07	6135734.21	6135734.36	0.0089	0.0024
Mercury	12087-03-17 18:57 G	6135822.15	6135822.29	6135822.43	0.0089	0.0031
Mercury	12087-06-13 20:38 G	6135910.23	6135910.36	6135910.50	0.0089	0.0039
Mercury	12087-09-09 22:19 G	6135998.32	6135998.43	6135998.57	0.0089	0.0047
Mercury	12087-12-07 00:28 G	6136086.40	6136086.52	6136086.63	0.0089	0.0054
Mercury	12088-03-04 01:55 G	6136174.49	6136174.58	6136174.70	0.0089	0.0062
Mercury	12088-05-31 03:50 G	6136262.57	6136262.66	6136262.76	0.0089	0.0069
Mercury	12088-08-27 05:31 G	6136350.67	6136350.73	6136350.82	0.0089	0.0076
Mercury	12088-11-23 07:11 G	6136438.77	6136438.80	6136438.86	0.0089	0.0084
Moon	12114-05-03 22:04 G	6145730.32	6145730.42	6145730.56	0.0089	0.0079
Earth	12114-05-04 01:11 G	6145730.49	6145730.55	6145730.67	0.0089	0.0084 *
Earth	12115-05-06 13:11 G	6146097.92	6146098.05	6146098.21	0.0089	0.0073
Moon	12115-05-06 15:50 G	6146098.05	6146098.16	6146098.32	0.0089	0.0077 *

Moon	12116-05-07 23:02 G	6146465.29	6146465.46	6146465.66	0.0089	0.0059
Earth	12116-05-08 01:11 G	6146465.38	6146465.55	6146465.74	0.0089	0.0063 *
Earth	12117-05-10 12:43 G	6146832.84	6146833.03	6146833.26	0.0089	0.0053
Moon	12117-05-10 13:11 G	6146832.87	6146833.05	6146833.28	0.0089	0.0057 *
Earth	12118-05-13 00:43 G	6147200.31	6147200.53	6147200.76	0.0089	0.0042
Moon	12118-05-13 00:43 G	6147200.32	6147200.53	6147200.77	0.0089	0.0039 *
Moon	12119-05-15 10:33 G	6147567.72	6147567.94	6147568.20	0.0089	0.0036
Earth	12119-05-15 12:14 G	6147567.79	6147568.01	6147568.26	0.0089	0.0032 *
Earth	12120-05-17 00:00 G	6147935.26	6147935.50	6147935.76	0.0089	0.0021
Moon	12120-05-17 03:07 G	6147935.38	6147935.63	6147935.87	0.0089	0.0017 *
Moon	12121-05-19 08:38 G	6148302.61	6148302.86	6148303.12	0.0089	0.0014
Earth	12121-05-19 11:45 G	6148302.74	6148302.99	6148303.25	0.0089	0.0011 *
Earth	12122-05-21 23:16 G	6148670.22	6148670.47	6148670.73	0.0089	0.0002
Moon	12122-05-22 03:07 G	6148670.37	6148670.63	6148670.88	0.0089	0.0004 *
Moon	12123-05-24 07:26 G	6149037.56	6149037.81	6149038.07	0.0089	0.0007
Earth	12123-05-24 10:48 G	6149037.70	6149037.95	6149038.20	0.0089	0.0011 *
Earth	12124-05-25 21:50 G	6149405.17	6149405.41	6149405.67	0.0089	0.0021
Moon	12124-05-26 00:43 G	6149405.29	6149405.53	6149405.79	0.0089	0.0024 *
Moon	12125-05-28 07:11 G	6149772.57	6149772.80	6149773.05	0.0089	0.0028
Earth	12125-05-28 09:07 G	6149772.65	6149772.88	6149773.13	0.0089	0.0032 *
Earth	12126-05-30 20:23 G	6150140.13	6150140.35	6150140.58	0.0089	0.0042
Moon	12126-05-30 20:23 G	6150140.14	6150140.35	6150140.60	0.0089	0.0045 *
Earth	12127-06-02 06:57 G	6150507.61	6150507.79	6150508.02	0.0089	0.0053
Moon	12127-06-02 07:26 G	6150507.63	6150507.81	6150508.04	0.0089	0.0050 *
Moon	12128-06-03 16:33 G	6150875.03	6150875.19	6150875.38	0.0089	0.0065
Earth	12128-06-03 18:14 G	6150875.10	6150875.26	6150875.46	0.0089	0.0062 *
Earth	12129-06-06 05:16 G	6151242.59	6151242.72	6151242.88	0.0089	0.0072
Moon	12129-06-06 07:55 G	6151242.70	6151242.83	6151243.01	0.0089	0.0069 *
Moon	12130-06-08 12:57 G	6151609.99	6151610.04	6151610.14	0.0089	0.0085
Earth	12130-06-08 16:04 G	6151610.10	6151610.17	6151610.30	0.0089	0.0083 *

Moon	12131-06-11 06:57 G	6151977.79	6151977.79	6151977.82	0.0089	0.0089
Mars	12142-06-20 23:31 G	6156005.24	6156005.48	6156005.76	0.0089	0.0056
Mars	12144-05-16 19:40 G	6156701.05	6156701.32	6156701.64	0.0089	0.0041
Venus	12162-08-30 13:55 G	6163381.07	6163381.08	6163381.14	0.0088	0.0087
Venus	12163-04-13 02:38 G	6163606.50	6163606.61	6163606.77	0.0088	0.0069
Venus	12163-11-24 15:36 G	6163831.98	6163832.15	6163832.35	0.0088	0.0049
Venus	12164-07-07 04:19 G	6164057.49	6164057.68	6164057.90	0.0088	0.0030
Venus	12165-02-17 17:16 G	6164283.00	6164283.22	6164283.44	0.0088	0.0011
Mercury	12165-04-30 19:40 G	6164355.31	6164355.32	6164355.36	0.0088	0.0087
Mercury	12165-07-27 22:04 G	6164443.36	6164443.42	6164443.50	0.0088	0.0079
Venus	12165-10-01 05:45 G	6164508.52	6164508.74	6164508.96	0.0088	0.0008
Mercury	12165-10-24 00:28 G	6164531.43	6164531.52	6164531.62	0.0088	0.0071
Mercury	12166-01-20 02:52 G	6164619.51	6164619.62	6164619.74	0.0088	0.0063
Mercury	12166-04-18 05:16 G	6164707.60	6164707.72	6164707.85	0.0088	0.0055
Venus	12166-05-14 18:14 G	6164734.06	6164734.26	6164734.48	0.0088	0.0027
Mercury	12166-07-15 07:26 G	6164795.68	6164795.81	6164795.96	0.0088	0.0048
Mercury	12166-10-11 09:50 G	6164883.77	6164883.91	6164884.07	0.0088	0.0040
Venus	12166-12-26 06:43 G	6164959.61	6164959.78	6164959.98	0.0088	0.0046
Mercury	12167-01-07 12:14 G	6164971.86	6164972.01	6164972.17	0.0088	0.0032
Mercury	12167-04-05 14:52 G	6165059.96	6165060.12	6165060.28	0.0088	0.0023
Mercury	12167-07-02 17:16 G	6165148.06	6165148.22	6165148.38	0.0088	0.0015
Venus	12167-08-08 19:40 G	6165185.17	6165185.32	6165185.47	0.0088	0.0064
Mercury	12167-09-28 19:40 G	6165236.15	6165236.32	6165236.49	0.0088	0.0007
Mercury	12167-12-25 22:04 G	6165324.25	6165324.42	6165324.59	0.0088	0.0001
Venus	12168-03-21 08:09 G	6165410.78	6165410.84	6165410.92	0.0088	0.0083
Mercury	12168-03-23 00:28 G	6165412.36	6165412.52	6165412.69	0.0088	0.0009
Mercury	12168-06-19 02:52 G	6165500.46	6165500.62	6165500.79	0.0088	0.0018
Mercury	12168-09-15 05:16 G	6165588.57	6165588.72	6165588.89	0.0088	0.0026
Mercury	12168-12-12 07:40 G	6165676.68	6165676.82	6165676.99	0.0088	0.0034
Mercury	12169-03-10 10:19 G	6165764.79	6165764.93	6165765.08	0.0088	0.0042

Mercury	12169-06-06 12:43 G	6165852.90	6165853.03	6165853.18	0.0088	0.0051
Mercury	12169-09-02 15:07 G	6165941.02	6165941.13	6165941.27	0.0088	0.0059
Mercury	12169-11-29 18:00 G	6166029.14	6166029.25	6166029.36	0.0088	0.0067
Mercury	12170-02-25 20:09 G	6166117.27	6166117.34	6166117.44	0.0088	0.0076
Mercury	12170-05-24 23:02 G	6166205.42	6166205.46	6166205.51	0.0088	0.0084
Earth	12196-10-30 16:04 G	6175861.10	6175861.17	6175861.24	0.0088	0.0084
Moon	12196-10-30 16:33 G	6175861.11	6175861.19	6175861.29	0.0088	0.0082 *
Earth	12197-11-02 03:07 G	6176228.52	6176228.63	6176228.79	0.0088	0.0075
Moon	12197-11-02 04:04 G	6176228.58	6176228.67	6176228.82	0.0088	0.0077 *
Moon	12198-11-04 12:28 G	6176595.86	6176596.02	6176596.23	0.0088	0.0064
Earth	12198-11-04 14:52 G	6176595.97	6176596.12	6176596.31	0.0088	0.0065 *
Earth	12199-11-07 02:23 G	6176963.41	6176963.60	6176963.81	0.0088	0.0055
Moon	12199-11-07 04:48 G	6176963.54	6176963.70	6176963.92	0.0088	0.0058 *
Moon	12200-11-09 10:04 G	6177330.72	6177330.92	6177331.17	0.0088	0.0044
Earth	12200-11-09 14:09 G	6177330.88	6177331.09	6177331.32	0.0088	0.0045 *
Earth	12201-11-12 01:40 G	6177698.34	6177698.57	6177698.82	0.0088	0.0035
Moon	12201-11-12 05:16 G	6177698.49	6177698.72	6177698.96	0.0088	0.0037 *
Moon	12202-11-14 09:50 G	6178065.68	6178065.91	6178066.18	0.0088	0.0023
Earth	12202-11-14 13:40 G	6178065.82	6178066.07	6178066.32	0.0088	0.0025 *
Earth	12203-11-17 01:11 G	6178433.30	6178433.55	6178433.81	0.0088	0.0015
Moon	12203-11-17 03:36 G	6178433.40	6178433.65	6178433.92	0.0088	0.0018 *
Moon	12204-11-18 11:45 G	6178800.74	6178800.99	6178801.24	0.0088	0.0003
Earth	12204-11-18 12:57 G	6178800.78	6178801.04	6178801.30	0.0088	0.0005 *
Earth	12205-11-21 00:43 G	6179168.28	6179168.53	6179168.79	0.0088	0.0005
Moon	12205-11-21 01:26 G	6179168.29	6179168.56	6179168.83	0.0088	0.0002 *
Earth	12206-11-23 12:43 G	6179535.78	6179536.03	6179536.29	0.0088	0.0015
Moon	12206-11-23 13:40 G	6179535.83	6179536.07	6179536.33	0.0088	0.0018 *
Moon	12207-11-25 22:04 G	6179903.18	6179903.42	6179903.69	0.0088	0.0024
Earth	12207-11-26 00:28 G	6179903.28	6179903.52	6179903.78	0.0088	0.0025 *
Earth	12208-11-27 12:28 G	6180270.79	6180271.02	6180271.27	0.0088	0.0036

Moon	12208-11-27 15:07 G	6180270.92	6180271.13	6180271.38	0.0088	0.0039 *
Moon	12209-11-29 20:52 G	6180638.16	6180638.37	6180638.62	0.0088	0.0043
Earth	12209-11-30 00:57 G	6180638.32	6180638.54	6180638.77	0.0088	0.0046 *
Earth	12210-12-02 13:11 G	6181005.85	6181006.05	6181006.26	0.0088	0.0055
Moon	12210-12-02 16:33 G	6181006.01	6181006.19	6181006.39	0.0088	0.0059 *
Moon	12211-12-04 21:36 G	6181373.25	6181373.40	6181373.61	0.0088	0.0063
Earth	12211-12-05 01:26 G	6181373.40	6181373.56	6181373.74	0.0088	0.0066 *
Earth	12212-12-06 13:26 G	6181740.95	6181741.06	6181741.21	0.0088	0.0076
Moon	12212-12-06 16:04 G	6181741.07	6181741.17	6181741.31	0.0088	0.0079 *
Moon	12213-12-09 00:14 G	6182108.45	6182108.51	6182108.63	0.0088	0.0083
Earth	12213-12-09 01:40 G	6182108.53	6182108.57	6182108.66	0.0088	0.0086 *
Mars	12226-04-10 12:14 G	6186613.74	6186614.01	6186614.31	0.0089	0.0027
Mars	12228-03-04 09:07 G	6187307.68	6187307.88	6187308.12	0.0089	0.0058
Venus	12246-01-10 07:26 G	6193828.73	6193828.81	6193828.94	0.0089	0.0078
Venus	12246-08-23 20:52 G	6194054.22	6194054.37	6194054.55	0.0089	0.0059
Venus	12247-04-06 10:19 G	6194279.75	6194279.93	6194280.14	0.0089	0.0039
Venus	12247-11-18 00:00 G	6194505.29	6194505.50	6194505.72	0.0089	0.0019
Mercury	12248-05-02 13:11 G	6194672.00	6194672.05	6194672.11	0.0089	0.0083
Venus	12248-06-30 13:26 G	6194730.84	6194731.06	6194731.28	0.0089	0.0002
Mercury	12248-07-29 15:07 G	6194760.06	6194760.13	6194760.22	0.0089	0.0075
Mercury	12248-10-25 17:16 G	6194848.12	6194848.22	6194848.32	0.0089	0.0067
Mercury	12249-01-21 19:11 G	6194936.19	6194936.30	6194936.42	0.0089	0.0059
Venus	12249-02-11 02:38 G	6194956.40	6194956.61	6194956.83	0.0089	0.0022
Mercury	12249-04-19 20:52 G	6195024.26	6195024.37	6195024.51	0.0089	0.0052
Mercury	12249-07-16 23:02 G	6195112.33	6195112.46	6195112.60	0.0089	0.0043
Venus	12249-09-24 15:50 G	6195181.98	6195182.16	6195182.37	0.0089	0.0042
Mercury	12249-10-13 00:57 G	6195200.41	6195200.54	6195200.68	0.0089	0.0036
Mercury	12250-01-09 02:52 G	6195288.48	6195288.62	6195288.77	0.0089	0.0028
Mercury	12250-04-07 04:48 G	6195376.56	6195376.70	6195376.85	0.0089	0.0020
Venus	12250-05-08 05:02 G	6195407.57	6195407.71	6195407.89	0.0089	0.0062

Mercury	12250-07-04 06:43 G	6195464.64	6195464.78	6195464.93	0.0089	0.0013
Mercury	12250-09-30 08:38 G	6195552.72	6195552.86	6195553.01	0.0089	0.0005
Venus	12250-12-19 18:28 G	6195633.20	6195633.27	6195633.38	0.0089	0.0081
Mercury	12250-12-27 10:33 G	6195640.79	6195640.94	6195641.09	0.0089	0.0004
Mercury	12251-03-25 12:28 G	6195728.87	6195729.02	6195729.17	0.0089	0.0011
Mercury	12251-06-21 14:23 G	6195816.95	6195817.10	6195817.24	0.0089	0.0018
Mercury	12251-09-17 16:04 G	6195905.03	6195905.17	6195905.32	0.0089	0.0026
Mercury	12251-12-14 18:00 G	6195993.12	6195993.25	6195993.39	0.0089	0.0034
Mercury	12252-03-11 19:40 G	6196081.20	6196081.32	6196081.46	0.0089	0.0041
Mercury	12252-06-07 21:36 G	6196169.28	6196169.40	6196169.53	0.0089	0.0049
Mercury	12252-09-03 23:16 G	6196257.37	6196257.47	6196257.60	0.0089	0.0056
Mercury	12252-12-01 01:11 G	6196345.46	6196345.55	6196345.66	0.0089	0.0064
Mercury	12253-02-27 03:07 G	6196433.54	6196433.63	6196433.72	0.0089	0.0071
Mercury	12253-05-26 04:33 G	6196521.64	6196521.69	6196521.77	0.0089	0.0079
Mercury	12253-08-22 06:28 G	6196609.74	6196609.77	6196609.82	0.0089	0.0086
Earth	12278-05-04 07:55 G	6205630.79	6205630.83	6205630.91	0.0089	0.0087
Moon	12278-05-04 10:04 G	6205630.90	6205630.92	6205631.00	0.0089	0.0088 *
Moon	12279-05-06 18:57 G	6205998.17	6205998.29	6205998.43	0.0089	0.0076
Earth	12279-05-06 20:09 G	6205998.22	6205998.34	6205998.48	0.0089	0.0077 *
Earth	12280-05-08 07:55 G	6206365.68	6206365.83	6206366.01	0.0089	0.0067
Moon	12280-05-08 07:55 G	6206365.69	6206365.83	6206366.03	0.0089	0.0069 *
Earth	12281-05-10 19:40 G	6206733.14	6206733.32	6206733.53	0.0089	0.0057
Moon	12281-05-10 20:52 G	6206733.20	6206733.37	6206733.58	0.0089	0.0056 *
Moon	12282-05-13 05:02 G	6207100.50	6207100.71	6207100.95	0.0089	0.0048
Earth	12282-05-13 07:26 G	6207100.61	6207100.81	6207101.04	0.0089	0.0047 *
Earth	12283-05-15 18:57 G	6207468.07	6207468.29	6207468.54	0.0089	0.0037
Moon	12283-05-15 21:50 G	6207468.20	6207468.41	6207468.66	0.0089	0.0035 *
Moon	12284-05-17 03:07 G	6207835.40	6207835.63	6207835.89	0.0089	0.0028
Earth	12284-05-17 07:11 G	6207835.55	6207835.80	6207836.04	0.0089	0.0026 *
Earth	12285-05-19 18:43 G	6208203.03	6208203.28	6208203.54	0.0089	0.0016

Moon	12285-05-19 22:04 G	6208203.17	6208203.42	6208203.68	0.0089	0.0014 *
Moon	12286-05-22 03:07 G	6208570.38	6208570.63	6208570.88	0.0089	0.0008
Earth	12286-05-22 06:28 G	6208570.51	6208570.77	6208571.03	0.0089	0.0005 *
Earth	12287-05-24 18:00 G	6208938.00	6208938.25	6208938.51	0.0089	0.0005
Moon	12287-05-24 20:09 G	6208938.08	6208938.34	6208938.61	0.0089	0.0007 *
Moon	12288-05-26 04:19 G	6209305.44	6209305.68	6209305.93	0.0089	0.0014
Earth	12288-05-26 05:31 G	6209305.49	6209305.73	6209305.99	0.0089	0.0016 *
Earth	12289-05-28 17:02 G	6209672.96	6209673.21	6209673.45	0.0089	0.0026
Moon	12289-05-28 17:02 G	6209672.97	6209673.21	6209673.47	0.0089	0.0028 *
Earth	12290-05-31 03:50 G	6210040.45	6210040.66	6210040.91	0.0089	0.0036
Moon	12290-05-31 05:45 G	6210040.51	6210040.74	6210040.97	0.0089	0.0034 *
Moon	12291-06-02 12:43 G	6210407.83	6210408.03	6210408.27	0.0089	0.0048
Earth	12291-06-02 15:07 G	6210407.93	6210408.13	6210408.37	0.0089	0.0046 *
Earth	12292-06-04 02:09 G	6210775.41	6210775.59	6210775.81	0.0089	0.0056
Moon	12292-06-04 05:02 G	6210775.53	6210775.71	6210775.94	0.0089	0.0053 *
Moon	12293-06-06 09:36 G	6211142.76	6211142.90	6211143.09	0.0089	0.0068
Earth	12293-06-06 13:40 G	6211142.91	6211143.07	6211143.25	0.0089	0.0066 *
Earth	12294-06-09 00:28 G	6211510.40	6211510.52	6211510.66	0.0089	0.0075
Moon	12294-06-09 03:50 G	6211510.52	6211510.66	6211510.82	0.0089	0.0072 *
Moon	12295-06-11 08:09 G	6211877.83	6211877.84	6211877.89	0.0089	0.0088
Earth	12295-06-11 11:16 G	6211877.92	6211877.97	6211878.07	0.0089	0.0085
Mars	12307-12-31 10:48 G	6216462.62	6216462.95	6216463.29	0.0089	0.0004
Venus	12327-07-17 13:26 G	6223600.95	6223601.06	6223601.17	0.0088	0.0076
Venus	12328-02-28 01:26 G	6223826.42	6223826.56	6223826.75	0.0088	0.0058
Venus	12328-10-10 14:23 G	6224051.92	6224052.10	6224052.31	0.0088	0.0039
Venus	12329-05-24 03:07 G	6224277.43	6224277.63	6224277.86	0.0088	0.0020
Venus	12330-01-04 16:04 G	6224502.95	6224503.17	6224503.39	0.0088	0.0001
Mercury	12330-01-27 18:43 G	6224526.24	6224526.28	6224526.33	0.0088	0.0084
Mercury	12330-04-25 21:07 G	6224614.31	6224614.38	6224614.46	0.0088	0.0076
Mercury	12330-07-22 23:31 G	6224702.38	6224702.48	6224702.58	0.0088	0.0068



Venus	12330-08-18 04:33 G	6224728.48	6224728.69	6224728.91	0.0088	0.0018
Mercury	12330-10-19 01:26 G	6224790.46	6224790.56	6224790.70	0.0088	0.0061
Mercury	12331-01-15 03:50 G	6224878.54	6224878.66	6224878.81	0.0088	0.0053
Venus	12331-03-31 17:02 G	6224954.02	6224954.21	6224954.42	0.0088	0.0037
Mercury	12331-04-13 06:14 G	6224966.63	6224966.76	6224966.92	0.0088	0.0045
Mercury	12331-07-10 08:38 G	6225054.72	6225054.86	6225055.02	0.0088	0.0037
Mercury	12331-10-06 11:02 G	6225142.81	6225142.96	6225143.13	0.0088	0.0029
Venus	12331-11-12 05:31 G	6225179.58	6225179.73	6225179.92	0.0088	0.0056
Mercury	12332-01-02 13:26 G	6225230.91	6225231.06	6225231.23	0.0088	0.0021
Mercury	12332-03-30 16:04 G	6225319.01	6225319.17	6225319.34	0.0088	0.0013
Venus	12332-06-24 18:14 G	6225405.16	6225405.26	6225405.39	0.0088	0.0075
Mercury	12332-06-26 18:28 G	6225407.10	6225407.27	6225407.44	0.0088	0.0005
Mercury	12332-09-22 20:52 G	6225495.20	6225495.37	6225495.54	0.0088	0.0004
Mercury	12332-12-19 23:16 G	6225583.31	6225583.47	6225583.64	0.0088	0.0012
Mercury	12333-03-18 01:40 G	6225671.41	6225671.57	6225671.74	0.0088	0.0020
Mercury	12333-06-14 04:19 G	6225759.52	6225759.68	6225759.84	0.0088	0.0028
Mercury	12333-09-10 06:28 G	6225847.63	6225847.77	6225847.93	0.0088	0.0037
Mercury	12333-12-07 08:52 G	6225935.74	6225935.87	6225936.03	0.0088	0.0045
Mercury	12334-03-05 11:31 G	6226023.85	6226023.98	6226024.12	0.0088	0.0053
Mercury	12334-06-01 13:55 G	6226111.97	6226112.08	6226112.21	0.0088	0.0062
Mercury	12334-08-28 16:33 G	6226200.10	6226200.19	6226200.30	0.0088	0.0070
Mercury	12334-11-24 19:11 G	6226288.23	6226288.30	6226288.38	0.0088	0.0078
Mercury	12335-02-20 21:21 G	6226376.39	6226376.39	6226376.43	0.0088	0.0087
Earth	12360-11-01 00:28 G	6235761.50	6235761.52	6235761.57	0.0088	0.0087
Moon	12360-11-01 01:55 G	6235761.51	6235761.58	6235761.67	0.0088	0.0083 *
Moon	12361-11-03 09:21 G	6236128.81	6236128.89	6236129.00	0.0088	0.0082
Earth	12361-11-03 11:45 G	6236128.90	6236128.99	6236129.14	0.0088	0.0078 *
Earth	12362-11-05 23:31 G	6236496.33	6236496.48	6236496.65	0.0088	0.0068
Moon	12362-11-06 02:38 G	6236496.46	6236496.61	6236496.81	0.0088	0.0064 *
Moon	12363-11-08 07:26 G	6236863.65	6236863.81	6236864.01	0.0088	0.0063

Earth	12363-11-08 10:48 G	6236863.78	6236863.95	6236864.17	0.0088	0.0059 *
Earth	12364-11-09 22:33 G	6237231.24	6237231.44	6237231.67	0.0088	0.0049
Moon	12364-11-10 02:09 G	6237231.39	6237231.59	6237231.84	0.0088	0.0045 *
Moon	12365-11-12 07:40 G	6237598.62	6237598.82	6237599.06	0.0088	0.0044
Earth	12365-11-12 10:33 G	6237598.72	6237598.94	6237599.18	0.0088	0.0039 *
Earth	12366-11-14 21:50 G	6237966.19	6237966.41	6237966.68	0.0088	0.0030
Moon	12366-11-15 00:14 G	6237966.27	6237966.51	6237966.78	0.0088	0.0026 *
Moon	12367-11-17 08:38 G	6238333.63	6238333.86	6238334.12	0.0088	0.0024
Earth	12367-11-17 09:36 G	6238333.66	6238333.90	6238334.17	0.0088	0.0020 *
Moon	12368-11-18 20:52 G	6238701.10	6238701.37	6238701.64	0.0088	0.0006
Earth	12368-11-18 21:36 G	6238701.14	6238701.40	6238701.66	0.0088	0.0010 *
Earth	12369-11-21 09:21 G	6239068.63	6239068.89	6239069.15	0.0088	0.0001
Moon	12369-11-21 10:33 G	6239068.70	6239068.94	6239069.20	0.0088	0.0005 *
Moon	12370-11-23 18:14 G	6239436.00	6239436.26	6239436.53	0.0088	0.0014
Earth	12370-11-23 21:07 G	6239436.12	6239436.38	6239436.64	0.0088	0.0010 *
Earth	12371-11-26 08:38 G	6239803.62	6239803.86	6239804.13	0.0088	0.0020
Moon	12371-11-26 12:00 G	6239803.76	6239804.00	6239804.27	0.0088	0.0016 *
Moon	12372-11-27 17:16 G	6240170.98	6240171.22	6240171.47	0.0088	0.0033
Earth	12372-11-27 20:38 G	6240171.13	6240171.36	6240171.62	0.0088	0.0030 *
Earth	12373-11-30 08:52 G	6240538.64	6240538.87	6240539.10	0.0088	0.0040
Moon	12373-11-30 12:14 G	6240538.79	6240539.01	6240539.27	0.0088	0.0036 *
Moon	12374-12-02 18:14 G	6240906.07	6240906.26	6240906.47	0.0088	0.0053
Earth	12374-12-02 20:52 G	6240906.17	6240906.37	6240906.60	0.0088	0.0049 *
Earth	12375-12-05 08:52 G	6241273.69	6241273.87	6241274.08	0.0088	0.0059
Moon	12375-12-05 11:02 G	6241273.78	6241273.96	6241274.19	0.0088	0.0057 *
Moon	12376-12-06 20:38 G	6241641.22	6241641.36	6241641.50	0.0088	0.0073
Earth	12376-12-06 20:52 G	6241641.24	6241641.37	6241641.56	0.0088	0.0070 *
Moon	12377-12-09 08:38 G	6242008.75	6242008.86	6242009.03	0.0088	0.0076
Earth	12377-12-09 09:36 G	6242008.80	6242008.90	6242009.03	0.0088	0.0079 *
Earth	12378-12-11 21:50 G	6242376.41	6242376.41	6242376.44	0.0088	0.0088

Mars	12389-11-24 17:31 G	6246377.04	6246377.23	6246377.46	0.0089	0.0064
Mars	12391-10-19 17:45 G	6247070.95	6247071.24	6247071.52	0.0089	0.0021
Jupiter	12401-11-15 08:52 G	6250750.62	6250750.87	6250751.25	0.0089	0.0072
Venus	12410-04-14 17:02 G	6253823.19	6253823.21	6253823.29	0.0089	0.0088
Venus	12410-11-26 06:43 G	6254048.65	6254048.78	6254048.94	0.0089	0.0068
Venus	12411-07-09 20:09 G	6254274.17	6254274.34	6254274.54	0.0089	0.0048
Venus	12412-02-20 09:36 G	6254499.70	6254499.90	6254500.11	0.0089	0.0028
Venus	12412-10-02 23:02 G	6254725.24	6254725.46	6254725.68	0.0089	0.0008
Mercury	12412-11-01 10:04 G	6254754.92	6254754.92	6254754.96	0.0089	0.0089
Mercury	12413-01-28 12:14 G	6254842.96	6254843.01	6254843.09	0.0089	0.0080
Mercury	12413-04-26 14:09 G	6254931.02	6254931.09	6254931.19	0.0089	0.0073
Venus	12413-05-16 12:14 G	6254950.79	6254951.01	6254951.23	0.0089	0.0012
Mercury	12413-07-23 16:19 G	6255019.08	6255019.18	6255019.29	0.0089	0.0064
Mercury	12413-10-19 18:14 G	6255107.15	6255107.26	6255107.38	0.0089	0.0057
Venus	12413-12-28 01:26 G	6255176.37	6255176.56	6255176.78	0.0089	0.0033
Mercury	12414-01-15 20:09 G	6255195.22	6255195.34	6255195.48	0.0089	0.0049
Mercury	12414-04-13 22:19 G	6255283.30	6255283.43	6255283.56	0.0089	0.0041
Mercury	12414-07-11 00:00 G	6255371.37	6255371.50	6255371.65	0.0089	0.0034
Venus	12414-08-10 14:38 G	6255401.95	6255402.11	6255402.31	0.0089	0.0053
Mercury	12414-10-07 02:09 G	6255459.45	6255459.59	6255459.74	0.0089	0.0025
Mercury	12415-01-03 04:04 G	6255547.52	6255547.67	6255547.82	0.0089	0.0017
Venus	12415-03-24 04:33 G	6255627.56	6255627.69	6255627.82	0.0089	0.0072
Mercury	12415-04-01 06:00 G	6255635.60	6255635.75	6255635.90	0.0089	0.0010
Mercury	12415-06-28 07:55 G	6255723.68	6255723.83	6255723.98	0.0089	0.0002
Mercury	12415-09-24 09:50 G	6255811.76	6255811.91	6255812.06	0.0089	0.0006
Mercury	12415-12-21 11:45 G	6255899.84	6255899.99	6255900.14	0.0089	0.0013
Mercury	12416-03-18 13:26 G	6255987.92	6255988.06	6255988.21	0.0089	0.0021
Mercury	12416-06-14 15:21 G	6256076.00	6256076.14	6256076.28	0.0089	0.0029
Mercury	12416-09-10 17:02 G	6256164.09	6256164.21	6256164.36	0.0089	0.0037
Mercury	12416-12-07 19:11 G	6256252.17	6256252.30	6256252.43	0.0089	0.0044

Mercury	12417-03-05 20:38 G	6256340.25	6256340.36	6256340.50	0.0089	0.0052
Mercury	12417-06-01 22:48 G	6256428.34	6256428.45	6256428.56	0.0089	0.0059
Mercury	12417-08-29 00:14 G	6256516.43	6256516.51	6256516.62	0.0089	0.0067
Mercury	12417-11-25 02:09 G	6256604.52	6256604.59	6256604.68	0.0089	0.0074
Mercury	12418-02-21 04:04 G	6256692.62	6256692.67	6256692.74	0.0089	0.0081
Mercury	12418-05-20 05:45 G	6256780.73	6256780.74	6256780.77	0.0089	0.0088
Moon	12443-05-07 03:07 G	6265898.51	6265898.63	6265898.79	0.0089	0.0076
Earth	12443-05-07 04:19 G	6265898.57	6265898.68	6265898.80	0.0089	0.0080 *
Earth	12444-05-08 15:36 G	6266266.02	6266266.15	6266266.34	0.0089	0.0071
Moon	12444-05-08 17:16 G	6266266.10	6266266.22	6266266.37	0.0089	0.0075 *
Moon	12445-05-11 00:57 G	6266633.35	6266633.54	6266633.76	0.0089	0.0056
Earth	12445-05-11 03:50 G	6266633.49	6266633.66	6266633.86	0.0089	0.0061 *
Earth	12446-05-13 15:21 G	6267000.95	6267001.14	6267001.37	0.0089	0.0051
Moon	12446-05-13 18:28 G	6267001.10	6267001.27	6267001.49	0.0089	0.0056 *
Moon	12447-05-15 23:45 G	6267368.27	6267368.49	6267368.74	0.0089	0.0036
Earth	12447-05-16 03:21 G	6267368.42	6267368.64	6267368.88	0.0089	0.0041 *
Earth	12448-05-17 14:52 G	6267735.89	6267736.12	6267736.37	0.0089	0.0031
Moon	12448-05-17 18:14 G	6267736.04	6267736.26	6267736.52	0.0089	0.0036 *
Moon	12449-05-20 00:00 G	6268103.27	6268103.50	6268103.76	0.0089	0.0017
Earth	12449-05-20 02:38 G	6268103.37	6268103.61	6268103.87	0.0089	0.0021 *
Earth	12450-05-22 14:09 G	6268470.84	6268471.09	6268471.35	0.0089	0.0011
Moon	12450-05-22 16:19 G	6268470.93	6268471.18	6268471.45	0.0089	0.0014 *
Moon	12451-05-25 01:26 G	6268838.31	6268838.56	6268838.81	0.0089	0.0004
Earth	12451-05-25 01:55 G	6268838.33	6268838.58	6268838.84	0.0089	0.0001 *
Moon	12452-05-26 12:28 G	6269205.77	6269206.02	6269206.29	0.0089	0.0007
Earth	12452-05-26 13:26 G	6269205.81	6269206.06	6269206.32	0.0089	0.0010 *
Earth	12453-05-29 00:43 G	6269573.30	6269573.53	6269573.79	0.0089	0.0021
Moon	12453-05-29 02:09 G	6269573.37	6269573.59	6269573.85	0.0089	0.0025 *
Moon	12454-05-31 09:21 G	6269940.65	6269940.89	6269941.15	0.0089	0.0025
Earth	12454-05-31 12:14 G	6269940.78	6269941.01	6269941.26	0.0089	0.0030 *

Earth	12455-06-02 23:16 G	6270308.26	6270308.47	6270308.72	0.0089	0.0040
Moon	12455-06-03 02:38 G	6270308.41	6270308.61	6270308.85	0.0089	0.0045 *
Moon	12456-06-04 07:40 G	6270675.60	6270675.82	6270676.04	0.0089	0.0046
Earth	12456-06-04 11:16 G	6270675.75	6270675.97	6270676.18	0.0089	0.0050 *
Earth	12457-06-06 21:50 G	6271043.23	6271043.41	6271043.61	0.0089	0.0059
Moon	12457-06-07 01:26 G	6271043.39	6271043.56	6271043.75	0.0089	0.0064 *
Moon	12458-06-09 06:28 G	6271410.62	6271410.77	6271410.96	0.0089	0.0065
Earth	12458-06-09 08:52 G	6271410.73	6271410.87	6271411.05	0.0089	0.0069 *
Earth	12459-06-11 20:09 G	6271778.23	6271778.34	6271778.47	0.0089	0.0078
Moon	12459-06-11 21:36 G	6271778.33	6271778.40	6271778.54	0.0089	0.0082 *
Moon	12460-06-13 06:28 G	6272145.71	6272145.77	6272145.87	0.0089	0.0084
Earth	12460-06-13 06:43 G	6272145.77	6272145.78	6272145.85	0.0089	0.0088 *
Mars	12471-08-14 06:28 G	6276224.49	6276224.77	6276225.06	0.0089	0.0045
Mars	12473-07-10 00:00 G	6276920.26	6276920.50	6276920.81	0.0089	0.0051
Venus	12491-10-18 23:02 G	6283595.42	6283595.46	6283595.53	0.0088	0.0085
Venus	12492-05-31 12:00 G	6283820.87	6283821.00	6283821.16	0.0088	0.0066
Venus	12493-01-12 00:43 G	6284046.36	6284046.53	6284046.73	0.0088	0.0047
Venus	12493-08-25 13:26 G	6284271.86	6284272.06	6284272.28	0.0088	0.0028
Venus	12494-04-08 02:09 G	6284497.38	6284497.59	6284497.81	0.0088	0.0009
Mercury	12494-10-24 17:31 G	6284697.18	6284697.23	6284697.30	0.0088	0.0081
Venus	12494-11-19 14:52 G	6284722.91	6284723.12	6284723.34	0.0088	0.0010
Mercury	12495-01-20 19:55 G	6284785.25	6284785.33	6284785.43	0.0088	0.0073
Mercury	12495-04-18 22:33 G	6284873.33	6284873.44	6284873.54	0.0088	0.0065
Venus	12495-07-03 03:36 G	6284948.45	6284948.65	6284948.87	0.0088	0.0029
Mercury	12495-07-16 00:28 G	6284961.41	6284961.52	6284961.66	0.0088	0.0058
Mercury	12495-10-12 02:52 G	6285049.50	6285049.62	6285049.77	0.0088	0.0050
Mercury	12496-01-08 05:16 G	6285137.58	6285137.72	6285137.87	0.0088	0.0042
Venus	12496-02-13 16:04 G	6285174.00	6285174.17	6285174.37	0.0088	0.0048
Mercury	12496-04-05 07:40 G	6285225.68	6285225.82	6285225.98	0.0088	0.0034
Mercury	12496-07-02 10:04 G	6285313.77	6285313.92	6285314.09	0.0088	0.0026

Venus	12496-09-26 04:33 G	6285399.57	6285399.69	6285399.85	0.0088	0.0067
Mercury	12496-09-28 12:28 G	6285401.86	6285402.02	6285402.19	0.0088	0.0018
Mercury	12496-12-25 14:52 G	6285489.96	6285490.12	6285490.29	0.0088	0.0010
Mercury	12497-03-23 17:16 G	6285578.06	6285578.22	6285578.39	0.0088	0.0003
Venus	12497-05-09 17:02 G	6285625.19	6285625.21	6285625.28	0.0088	0.0086
Mercury	12497-06-19 19:40 G	6285666.16	6285666.32	6285666.49	0.0088	0.0007
Mercury	12497-09-15 22:04 G	6285754.26	6285754.42	6285754.59	0.0088	0.0015
Mercury	12497-12-13 00:43 G	6285842.37	6285842.53	6285842.69	0.0088	0.0023
Mercury	12498-03-11 03:07 G	6285930.47	6285930.63	6285930.79	0.0088	0.0031
Mercury	12498-06-07 05:16 G	6286018.58	6286018.72	6286018.88	0.0088	0.0040
Mercury	12498-09-03 07:55 G	6286106.70	6286106.83	6286106.98	0.0088	0.0048
Mercury	12498-11-30 10:33 G	6286194.81	6286194.94	6286195.07	0.0088	0.0056
Mercury	12499-02-26 12:43 G	6286282.93	6286283.03	6286283.16	0.0088	0.0065
Mercury	12499-05-25 15:21 G	6286371.06	6286371.14	6286371.24	0.0088	0.0073
Mercury	12499-08-21 18:00 G	6286459.19	6286459.25	6286459.32	0.0088	0.0081
Earth	12525-11-03 20:38 G	6296029.29	6296029.36	6296029.49	0.0088	0.0081
Moon	12525-11-04 00:14 G	6296029.43	6296029.51	6296029.64	0.0088	0.0080 *
Moon	12526-11-06 05:02 G	6296396.57	6296396.71	6296396.87	0.0088	0.0071
Earth	12526-11-06 08:38 G	6296396.72	6296396.86	6296397.02	0.0088	0.0071 *
Earth	12527-11-08 19:40 G	6296764.16	6296764.32	6296764.52	0.0088	0.0062
Moon	12527-11-08 22:48 G	6296764.29	6296764.45	6296764.66	0.0088	0.0061 *
Moon	12528-11-10 04:48 G	6297131.51	6297131.70	6297131.91	0.0088	0.0054
Earth	12528-11-10 07:11 G	6297131.62	6297131.80	6297132.04	0.0088	0.0053 *
Earth	12529-11-12 19:11 G	6297499.09	6297499.30	6297499.54	0.0088	0.0043
Moon	12529-11-12 20:38 G	6297499.13	6297499.36	6297499.60	0.0088	0.0042 *
Moon	12530-11-15 06:28 G	6297866.55	6297866.77	6297867.01	0.0088	0.0035
Earth	12530-11-15 06:43 G	6297866.55	6297866.78	6297867.04	0.0088	0.0034 *
Moon	12531-11-17 17:31 G	6298233.99	6298234.23	6298234.51	0.0088	0.0023
Earth	12531-11-17 18:28 G	6298234.04	6298234.27	6298234.54	0.0088	0.0024 *
Earth	12532-11-19 06:28 G	6298601.52	6298601.77	6298602.03	0.0088	0.0014

Moon	12532-11-19 08:52 G	6298601.62	6298601.87	6298602.12	0.0088	0.0015	*
Moon	12533-11-21 15:21 G	6298968.88	6298969.14	6298969.41	0.0088	0.0004	
Earth	12533-11-21 18:14 G	6298969.01	6298969.26	6298969.53	0.0088	0.0005	*
Earth	12534-11-24 06:00 G	6299336.50	6299336.75	6299337.02	0.0088	0.0006	
Moon	12534-11-24 09:36 G	6299336.65	6299336.90	6299337.16	0.0088	0.0003	*
Moon	12535-11-26 14:09 G	6299703.85	6299704.09	6299704.36	0.0088	0.0016	
Earth	12535-11-26 17:45 G	6299704.00	6299704.24	6299704.51	0.0088	0.0015	*
Earth	12536-11-28 06:00 G	6300071.50	6300071.75	6300072.00	0.0088	0.0025	
Moon	12536-11-28 09:07 G	6300071.63	6300071.88	6300072.14	0.0088	0.0022	*
Moon	12537-11-30 15:07 G	6300438.90	6300439.13	6300439.37	0.0088	0.0037	
Earth	12537-11-30 17:45 G	6300439.01	6300439.24	6300439.49	0.0088	0.0034	*
Earth	12538-12-03 05:16 G	6300806.52	6300806.72	6300806.97	0.0088	0.0044	
Moon	12538-12-03 06:43 G	6300806.56	6300806.78	6300807.03	0.0088	0.0042	*
Moon	12539-12-05 17:31 G	6301174.04	6301174.23	6301174.43	0.0088	0.0056	
Earth	12539-12-05 17:45 G	6301174.04	6301174.24	6301174.46	0.0088	0.0053	*
Moon	12540-12-07 05:02 G	6301541.53	6301541.71	6301541.92	0.0088	0.0061	
Earth	12540-12-07 05:45 G	6301541.58	6301541.74	6301541.94	0.0088	0.0063	*
Earth	12541-12-09 18:14 G	6301909.12	6301909.26	6301909.42	0.0088	0.0072	
Moon	12541-12-09 20:38 G	6301909.23	6301909.36	6301909.50	0.0088	0.0075	*
Moon	12542-12-12 03:36 G	6302276.56	6302276.65	6302276.79	0.0088	0.0080	
Earth	12542-12-12 06:14 G	6302276.70	6302276.76	6302276.88	0.0088	0.0082	*
Mars	12555-06-04 22:48 G	6306834.17	6306834.45	6306834.76	0.0089	0.0016	
Mars	12557-04-28 22:04 G	6307528.25	6307528.42	6307528.62	0.0089	0.0069	
Jupiter	12568-01-16 14:52 G	6311442.64	6311443.12	6311443.66	0.0089	0.0024	
Venus	12575-02-28 17:16 G	6314043.12	6314043.22	6314043.35	0.0089	0.0076	
Venus	12575-10-12 06:14 G	6314268.61	6314268.76	6314268.96	0.0089	0.0057	
Venus	12576-05-24 19:40 G	6314494.14	6314494.32	6314494.54	0.0089	0.0037	
Venus	12577-01-05 09:21 G	6314719.68	6314719.89	6314720.11	0.0089	0.0016	
Mercury	12577-07-30 09:50 G	6314925.87	6314925.91	6314925.96	0.0089	0.0085	
Venus	12577-08-18 22:48 G	6314945.23	6314945.45	6314945.67	0.0089	0.0004	

Mercury	12577-10-26 12:00 G	6315013.92	6315014.00	6315014.07	0.0089	0.0077
Mercury	12578-01-22 13:40 G	6315101.99	6315102.07	6315102.18	0.0089	0.0069
Venus	12578-04-01 12:00 G	6315170.79	6315171.00	6315171.22	0.0089	0.0024
Mercury	12578-04-20 15:36 G	6315190.05	6315190.15	6315190.27	0.0089	0.0061
Mercury	12578-07-17 17:31 G	6315278.12	6315278.23	6315278.37	0.0089	0.0054
Mercury	12578-10-13 19:40 G	6315366.20	6315366.32	6315366.46	0.0089	0.0045
Venus	12578-11-13 01:11 G	6315396.37	6315396.55	6315396.75	0.0089	0.0044
Mercury	12579-01-09 21:36 G	6315454.27	6315454.40	6315454.54	0.0089	0.0038
Mercury	12579-04-07 23:45 G	6315542.35	6315542.49	6315542.63	0.0089	0.0030
Venus	12579-06-26 14:23 G	6315621.96	6315622.10	6315622.27	0.0089	0.0064
Mercury	12579-07-05 01:26 G	6315630.42	6315630.56	6315630.71	0.0089	0.0023
Mercury	12579-10-01 03:36 G	6315718.50	6315718.65	6315718.80	0.0089	0.0014
Mercury	12579-12-28 05:31 G	6315806.58	6315806.73	6315806.88	0.0089	0.0006
Venus	12580-02-07 03:50 G	6315847.60	6315847.66	6315847.75	0.0089	0.0084
Mercury	12580-03-25 07:26 G	6315894.66	6315894.81	6315894.96	0.0089	0.0001
Mercury	12580-06-21 09:21 G	6315982.74	6315982.89	6315983.04	0.0089	0.0009
Mercury	12580-09-17 11:02 G	6316070.82	6316070.96	6316071.11	0.0089	0.0017
Mercury	12580-12-14 12:57 G	6316158.90	6316159.04	6316159.19	0.0089	0.0024
Mercury	12581-03-12 14:52 G	6316246.98	6316247.12	6316247.26	0.0089	0.0032
Mercury	12581-06-08 16:33 G	6316335.07	6316335.19	6316335.33	0.0089	0.0040
Mercury	12581-09-04 18:43 G	6316423.15	6316423.28	6316423.40	0.0089	0.0047
Mercury	12581-12-01 20:09 G	6316511.24	6316511.34	6316511.47	0.0089	0.0055
Mercury	12582-02-27 22:19 G	6316599.32	6316599.43	6316599.54	0.0089	0.0062
Mercury	12582-05-26 23:45 G	6316687.41	6316687.49	6316687.60	0.0089	0.0070
Mercury	12582-08-23 01:55 G	6316775.51	6316775.58	6316775.65	0.0089	0.0077
Mercury	12582-11-19 03:21 G	6316863.61	6316863.64	6316863.70	0.0089	0.0085
Earth	12607-05-08 12:43 G	6325798.94	6325799.03	6325799.13	0.0089	0.0083
Moon	12607-05-08 14:52 G	6325799.05	6325799.12	6325799.24	0.0089	0.0083 *
Moon	12608-05-09 21:36 G	6326166.28	6326166.40	6326166.57	0.0089	0.0074
Earth	12608-05-10 00:28 G	6326166.40	6326166.52	6326166.69	0.0089	0.0074 *



Earth	12609-05-12 12:43 G	6326533.86	6326534.03	6326534.22	0.0089	0.0064
Moon	12609-05-12 16:04 G	6326534.01	6326534.17	6326534.36	0.0089	0.0065 *
Moon	12610-05-14 21:07 G	6326901.20	6326901.38	6326901.60	0.0089	0.0055
Earth	12610-05-15 00:14 G	6326901.34	6326901.51	6326901.74	0.0089	0.0055 *
Earth	12611-05-17 12:14 G	6327268.81	6327269.01	6327269.25	0.0089	0.0045
Moon	12611-05-17 15:21 G	6327268.94	6327269.14	6327269.38	0.0089	0.0046 *
Moon	12612-05-18 21:50 G	6327636.18	6327636.41	6327636.64	0.0089	0.0034
Earth	12612-05-19 00:14 G	6327636.28	6327636.51	6327636.75	0.0089	0.0035 *
Earth	12613-05-21 12:00 G	6328003.75	6328004.00	6328004.25	0.0089	0.0025
Moon	12613-05-21 12:43 G	6328003.79	6328004.03	6328004.29	0.0089	0.0025 *
Moon	12614-05-23 23:16 G	6328371.23	6328371.47	6328371.72	0.0089	0.0014
Earth	12614-05-23 23:16 G	6328371.23	6328371.47	6328371.74	0.0089	0.0016 *
Moon	12615-05-26 09:50 G	6328738.66	6328738.91	6328739.18	0.0089	0.0007
Earth	12615-05-26 11:02 G	6328738.71	6328738.96	6328739.22	0.0089	0.0006 *
Earth	12616-05-27 22:33 G	6329106.19	6329106.44	6329106.70	0.0089	0.0005
Moon	12616-05-28 01:11 G	6329106.30	6329106.55	6329106.80	0.0089	0.0005 *
Moon	12617-05-30 07:11 G	6329473.55	6329473.80	6329474.06	0.0089	0.0014
Earth	12617-05-30 10:04 G	6329473.67	6329473.92	6329474.18	0.0089	0.0015 *
Earth	12618-06-01 21:36 G	6329841.16	6329841.40	6329841.65	0.0089	0.0025
Moon	12618-06-02 01:11 G	6329841.31	6329841.55	6329841.80	0.0089	0.0026 *
Moon	12619-06-04 05:45 G	6330208.51	6330208.74	6330208.98	0.0089	0.0034
Earth	12619-06-04 09:07 G	6330208.65	6330208.88	6330209.12	0.0089	0.0034 *
Earth	12620-06-05 20:09 G	6330576.13	6330576.34	6330576.58	0.0089	0.0044
Moon	12620-06-05 23:16 G	6330576.27	6330576.47	6330576.71	0.0089	0.0046 *
Moon	12621-06-08 05:02 G	6330943.53	6330943.71	6330943.94	0.0089	0.0052
Earth	12621-06-08 07:40 G	6330943.63	6330943.82	6330944.03	0.0089	0.0054 *
Earth	12622-06-10 18:28 G	6331311.12	6331311.27	6331311.48	0.0089	0.0064
Moon	12622-06-10 19:26 G	6331311.15	6331311.31	6331311.51	0.0089	0.0064 *
Earth	12623-06-13 05:45 G	6331678.61	6331678.74	6331678.91	0.0089	0.0072
Moon	12623-06-13 06:00 G	6331678.61	6331678.75	6331678.90	0.0089	0.0071 *

Moon	12624-06-14 15:21 G	6332046.07	6332046.14	6332046.25	0.0089	0.0083
Earth	12624-06-14 17:02 G	6332046.12	6332046.21	6332046.32	0.0089	0.0081 *
Mars	12635-03-30 02:23 G	6335986.54	6335986.60	6335986.70	0.0089	0.0086
Mars	12637-02-22 19:40 G	6336682.00	6336682.32	6336682.66	0.0089	0.0009
Venus	12656-09-03 22:33 G	6343815.34	6343815.44	6343815.57	0.0088	0.0075
Venus	12657-04-17 11:31 G	6344040.82	6344040.98	6344041.16	0.0088	0.0055
Venus	12657-11-29 00:14 G	6344266.32	6344266.51	6344266.72	0.0088	0.0036
Venus	12658-07-12 13:11 G	6344491.84	6344492.05	6344492.27	0.0088	0.0017
Venus	12659-02-23 01:55 G	6344717.36	6344717.58	6344717.80	0.0088	0.0002
Mercury	12659-04-26 14:09 G	6344780.08	6344780.09	6344780.15	0.0088	0.0086
Mercury	12659-07-23 16:33 G	6344868.13	6344868.19	6344868.28	0.0088	0.0078
Venus	12659-10-06 14:23 G	6344942.89	6344943.10	6344943.32	0.0088	0.0021
Mercury	12659-10-19 18:57 G	6344956.21	6344956.29	6344956.40	0.0088	0.0070
Mercury	12660-01-15 21:21 G	6345044.29	6345044.39	6345044.52	0.0088	0.0062
Mercury	12660-04-12 23:45 G	6345132.37	6345132.49	6345132.63	0.0088	0.0054
Venus	12660-05-19 03:07 G	6345168.44	6345168.63	6345168.83	0.0088	0.0040
Mercury	12660-07-10 02:09 G	6345220.46	6345220.59	6345220.73	0.0088	0.0046
Mercury	12660-10-06 04:33 G	6345308.55	6345308.69	6345308.84	0.0088	0.0038
Venus	12660-12-30 15:36 G	6345394.00	6345394.15	6345394.33	0.0088	0.0059
Mercury	12661-01-02 06:57 G	6345396.64	6345396.79	6345396.95	0.0088	0.0030
Mercury	12661-03-31 09:21 G	6345484.73	6345484.89	6345485.05	0.0088	0.0022
Mercury	12661-06-27 11:45 G	6345572.83	6345572.99	6345573.15	0.0088	0.0014
Venus	12661-08-13 04:19 G	6345619.59	6345619.68	6345619.79	0.0088	0.0078
Mercury	12661-09-23 14:09 G	6345660.92	6345661.09	6345661.25	0.0088	0.0006
Mercury	12661-12-20 16:33 G	6345749.02	6345749.19	6345749.36	0.0088	0.0002
Mercury	12662-03-18 18:57 G	6345837.12	6345837.29	6345837.46	0.0088	0.0010
Mercury	12662-06-14 21:21 G	6345925.23	6345925.39	6345925.55	0.0088	0.0018
Mercury	12662-09-10 23:31 G	6346013.33	6346013.48	6346013.65	0.0088	0.0027
Mercury	12662-12-08 02:09 G	6346101.44	6346101.59	6346101.75	0.0088	0.0035
Mercury	12663-03-06 04:33 G	6346189.55	6346189.69	6346189.84	0.0088	0.0043

Mercury	12663-06-02 07:11 G	6346277.66	6346277.80	6346277.94	0.0088	0.0051
Mercury	12663-08-29 09:21 G	6346365.78	6346365.89	6346366.03	0.0088	0.0060
Mercury	12663-11-25 12:00 G	6346453.90	6346454.00	6346454.11	0.0088	0.0068
Mercury	12664-02-21 14:38 G	6346542.03	6346542.11	6346542.19	0.0088	0.0076
Mercury	12664-05-19 16:48 G	6346630.17	6346630.20	6346630.26	0.0088	0.0085
Moon	12689-11-04 04:04 G	6355929.56	6355929.67	6355929.79	0.0088	0.0078
Earth	12689-11-04 07:11 G	6355929.74	6355929.80	6355929.91	0.0088	0.0083 *
Earth	12690-11-06 18:14 G	6356297.15	6356297.26	6356297.43	0.0088	0.0074
Moon	12690-11-06 21:07 G	6356297.30	6356297.38	6356297.53	0.0088	0.0079 *
Moon	12691-11-09 04:04 G	6356664.51	6356664.67	6356664.87	0.0088	0.0061
Earth	12691-11-09 06:00 G	6356664.59	6356664.75	6356664.94	0.0088	0.0065 *
Earth	12692-11-10 17:16 G	6357032.04	6357032.22	6357032.44	0.0088	0.0056
Moon	12692-11-10 18:28 G	6357032.10	6357032.27	6357032.49	0.0088	0.0060 *
Earth	12693-11-13 04:33 G	6357399.50	6357399.69	6357399.94	0.0088	0.0047
Moon	12693-11-13 05:31 G	6357399.52	6357399.73	6357399.96	0.0088	0.0042 *
Moon	12694-11-15 14:52 G	6357766.89	6357767.12	6357767.36	0.0088	0.0041
Earth	12694-11-15 16:33 G	6357766.97	6357767.19	6357767.44	0.0088	0.0037 *
Earth	12695-11-18 04:04 G	6358134.44	6358134.67	6358134.93	0.0088	0.0028
Moon	12695-11-18 06:28 G	6358134.54	6358134.77	6358135.03	0.0088	0.0024 *
Moon	12696-11-19 12:28 G	6358501.78	6358502.02	6358502.29	0.0088	0.0023
Earth	12696-11-19 16:19 G	6358501.93	6358502.18	6358502.44	0.0088	0.0018 *
Earth	12697-11-22 03:50 G	6358869.41	6358869.66	6358869.93	0.0088	0.0009
Moon	12697-11-22 07:26 G	6358869.55	6358869.81	6358870.07	0.0088	0.0005 *
Moon	12698-11-24 12:14 G	6359236.75	6359237.01	6359237.27	0.0088	0.0004
Earth	12698-11-24 15:50 G	6359236.90	6359237.16	6359237.42	0.0088	0.0001 *
Earth	12699-11-27 03:21 G	6359604.39	6359604.64	6359604.91	0.0088	0.0011
Moon	12699-11-27 06:14 G	6359604.51	6359604.76	6359605.04	0.0088	0.0015 *
Moon	12700-11-29 13:40 G	6359971.82	6359972.07	6359972.32	0.0088	0.0015
Earth	12700-11-29 15:36 G	6359971.89	6359972.15	6359972.40	0.0088	0.0020 *
Earth	12701-12-02 02:52 G	6360339.39	6360339.62	6360339.88	0.0088	0.0029

Moon	12701-12-02 04:04 G	6360339.44	6360339.67	6360339.94	0.0088	0.0033 *
Earth	12702-12-04 15:07 G	6360706.90	6360707.13	6360707.37	0.0088	0.0038
Moon	12702-12-04 15:36 G	6360706.93	6360707.15	6360707.39	0.0088	0.0034 *
Moon	12703-12-07 00:57 G	6361074.35	6361074.54	6361074.78	0.0088	0.0052
Earth	12703-12-07 02:38 G	6361074.42	6361074.61	6361074.85	0.0088	0.0049 *
Earth	12704-12-08 14:52 G	6361441.94	6361442.12	6361442.33	0.0088	0.0057
Moon	12704-12-08 17:16 G	6361442.03	6361442.22	6361442.43	0.0088	0.0053 *
Moon	12705-12-10 23:16 G	6361809.34	6361809.47	6361809.65	0.0088	0.0072
Earth	12705-12-11 03:07 G	6361809.48	6361809.63	6361809.82	0.0088	0.0067 *
Earth	12706-12-13 15:36 G	6362177.02	6362177.15	6362177.28	0.0088	0.0076
Moon	12706-12-13 19:11 G	6362177.15	6362177.30	6362177.45	0.0088	0.0072 *
Earth	12707-12-16 04:04 G	6362544.60	6362544.67	6362544.74	0.0088	0.0085
Mars	12719-01-20 05:16 G	6366597.51	6366597.72	6366598.00	0.0089	0.0052
Mars	12720-12-14 05:45 G	6367291.48	6367291.74	6367292.03	0.0089	0.0034
Jupiter	12734-03-19 19:11 G	6372134.82	6372135.30	6372135.82	0.0089	0.0026
Venus	12739-06-04 04:04 G	6374037.61	6374037.67	6374037.76	0.0089	0.0084
Venus	12740-01-15 17:02 G	6374263.08	6374263.21	6374263.39	0.0089	0.0065
Venus	12740-08-28 06:28 G	6374488.60	6374488.77	6374488.98	0.0089	0.0045
Venus	12741-04-10 19:55 G	6374714.13	6374714.33	6374714.55	0.0089	0.0024
Venus	12741-11-22 09:21 G	6374939.68	6374939.89	6374940.12	0.0089	0.0005
Mercury	12742-01-30 07:11 G	6375008.80	6375008.80	6375008.82	0.0089	0.0089
Mercury	12742-04-28 09:07 G	6375096.83	6375096.88	6375096.96	0.0089	0.0082
Venus	12742-07-05 22:48 G	6375165.23	6375165.45	6375165.67	0.0089	0.0016
Mercury	12742-07-25 11:16 G	6375184.89	6375184.97	6375185.06	0.0089	0.0073
Mercury	12742-10-21 13:11 G	6375272.96	6375273.05	6375273.16	0.0089	0.0066
Mercury	12743-01-17 15:21 G	6375361.03	6375361.14	6375361.26	0.0089	0.0058
Venus	12743-02-16 12:00 G	6375390.80	6375391.00	6375391.20	0.0089	0.0036
Mercury	12743-04-15 17:16 G	6375449.10	6375449.22	6375449.35	0.0089	0.0050
Mercury	12743-07-12 19:11 G	6375537.17	6375537.30	6375537.44	0.0089	0.0042
Venus	12743-09-30 00:57 G	6375616.38	6375616.54	6375616.73	0.0089	0.0056

Mercury	12743-10-08 21:07 G	6375625.25	6375625.38	6375625.53	0.0089	0.0034
Mercury	12744-01-04 23:02 G	6375713.32	6375713.46	6375713.61	0.0089	0.0027
Mercury	12744-04-02 01:11 G	6375801.40	6375801.55	6375801.70	0.0089	0.0018
Venus	12744-05-12 14:09 G	6375841.99	6375842.09	6375842.22	0.0089	0.0076
Mercury	12744-06-29 03:07 G	6375889.48	6375889.63	6375889.78	0.0089	0.0011
Mercury	12744-09-25 05:02 G	6375977.56	6375977.71	6375977.86	0.0089	0.0003
Mercury	12744-12-22 06:57 G	6376065.64	6376065.79	6376065.94	0.0089	0.0005
Mercury	12745-03-20 08:52 G	6376153.72	6376153.87	6376154.02	0.0089	0.0012
Mercury	12745-06-16 10:33 G	6376241.80	6376241.94	6376242.09	0.0089	0.0020
Mercury	12745-09-12 12:28 G	6376329.88	6376330.02	6376330.17	0.0089	0.0028
Mercury	12745-12-09 14:23 G	6376417.97	6376418.10	6376418.24	0.0089	0.0035
Mercury	12746-03-07 16:19 G	6376506.05	6376506.18	6376506.31	0.0089	0.0043
Mercury	12746-06-03 18:00 G	6376594.14	6376594.25	6376594.38	0.0089	0.0050
Mercury	12746-08-30 19:55 G	6376682.22	6376682.33	6376682.45	0.0089	0.0058
Mercury	12746-11-26 21:36 G	6376770.31	6376770.40	6376770.51	0.0089	0.0065
Mercury	12747-02-22 23:31 G	6376858.40	6376858.48	6376858.57	0.0089	0.0073
Mercury	12747-05-22 01:11 G	6376946.50	6376946.55	6376946.63	0.0089	0.0080
Mercury	12747-08-18 03:07 G	6377034.61	6377034.63	6377034.67	0.0089	0.0088
Earth	12771-05-08 21:21 G	6385699.35	6385699.39	6385699.49	0.0089	0.0086
Earth	12772-05-10 09:21 G	6386066.79	6386066.89	6386067.05	0.0089	0.0077
Moon	12772-05-10 13:11 G	6386066.91	6386067.05	6386067.21	0.0089	0.0072 *
Moon	12773-05-12 18:28 G	6386434.13	6386434.27	6386434.43	0.0089	0.0072
Earth	12773-05-12 22:04 G	6386434.26	6386434.42	6386434.60	0.0089	0.0067 *
Earth	12774-05-15 09:50 G	6386801.73	6386801.91	6386802.12	0.0089	0.0058
Moon	12774-05-15 12:43 G	6386801.83	6386802.03	6386802.25	0.0089	0.0053 *
Moon	12775-05-17 19:55 G	6387169.15	6387169.33	6387169.55	0.0089	0.0053
Earth	12775-05-17 22:04 G	6387169.21	6387169.42	6387169.64	0.0089	0.0048 *
Earth	12776-05-19 09:36 G	6387536.68	6387536.90	6387537.14	0.0089	0.0039
Moon	12776-05-19 10:48 G	6387536.71	6387536.95	6387537.20	0.0089	0.0034 *
Earth	12777-05-21 21:21 G	6387904.16	6387904.39	6387904.64	0.0089	0.0029

Moon	12777-05-21 22:04 G	6387904.20	6387904.42	6387904.66	0.0089	0.0034 *
Moon	12778-05-24 07:11 G	6388271.55	6388271.80	6388272.07	0.0089	0.0015
Earth	12778-05-24 09:07 G	6388271.64	6388271.88	6388272.14	0.0089	0.0019 *
Earth	12779-05-26 20:52 G	6388639.11	6388639.37	6388639.62	0.0089	0.0009
Moon	12779-05-26 23:16 G	6388639.23	6388639.47	6388639.72	0.0089	0.0014 *
Moon	12780-05-28 04:48 G	6389006.44	6389006.70	6389006.96	0.0089	0.0005
Earth	12780-05-28 08:23 G	6389006.59	6389006.85	6389007.11	0.0089	0.0000 *
Earth	12781-05-30 19:40 G	6389374.07	6389374.32	6389374.58	0.0089	0.0010
Moon	12781-05-30 23:16 G	6389374.22	6389374.47	6389374.73	0.0089	0.0005 *
Moon	12782-06-02 03:36 G	6389741.42	6389741.65	6389741.91	0.0089	0.0025
Earth	12782-06-02 07:26 G	6389741.56	6389741.81	6389742.06	0.0089	0.0019 *
Earth	12783-06-04 18:28 G	6390109.04	6390109.27	6390109.53	0.0089	0.0029
Moon	12783-06-04 21:07 G	6390109.14	6390109.38	6390109.65	0.0089	0.0025 *
Moon	12784-06-06 04:33 G	6390476.48	6390476.69	6390476.91	0.0089	0.0043
Earth	12784-06-06 06:14 G	6390476.53	6390476.76	6390477.00	0.0089	0.0038 *
Earth	12785-06-08 17:16 G	6390844.03	6390844.22	6390844.46	0.0089	0.0048
Moon	12785-06-08 18:28 G	6390844.05	6390844.27	6390844.51	0.0089	0.0043 *
Earth	12786-06-11 04:48 G	6391211.52	6391211.70	6391211.91	0.0089	0.0057
Moon	12786-06-11 05:31 G	6391211.58	6391211.73	6391211.93	0.0089	0.0062 *
Moon	12787-06-13 14:09 G	6391578.92	6391579.09	6391579.30	0.0089	0.0062
Earth	12787-06-13 16:19 G	6391579.02	6391579.18	6391579.36	0.0089	0.0066 *
Earth	12788-06-15 03:21 G	6391946.51	6391946.64	6391946.78	0.0089	0.0075
Moon	12788-06-15 05:31 G	6391946.65	6391946.73	6391946.86	0.0089	0.0081 *
Moon	12789-06-17 10:19 G	6392313.85	6392313.93	6392314.08	0.0089	0.0080
Earth	12789-06-17 14:23 G	6392314.04	6392314.10	6392314.19	0.0089	0.0085 *
Mars	12800-10-07 18:00 G	6396443.96	6396444.25	6396444.57	0.0089	0.0032
Mars	12802-09-03 11:16 G	6397139.77	6397139.97	6397140.23	0.0089	0.0064
Venus	12820-12-07 09:36 G	6403809.84	6403809.90	6403809.99	0.0088	0.0082
Venus	12821-07-20 22:19 G	6404035.30	6404035.43	6404035.60	0.0088	0.0063
Venus	12822-03-03 11:02 G	6404260.79	6404260.96	6404261.17	0.0088	0.0044

Venus	12822-10-15 00:00 G	6404486.30	6404486.50	6404486.72	0.0088	0.0025
Venus	12823-05-28 12:57 G	6404711.82	6404712.04	6404712.26	0.0088	0.0006
Venus	12824-01-09 01:40 G	6404937.35	6404937.57	6404937.79	0.0088	0.0013
Mercury	12824-01-22 13:40 G	6404951.03	6404951.07	6404951.14	0.0088	0.0082
Mercury	12824-04-19 16:04 G	6405039.09	6405039.17	6405039.27	0.0088	0.0074
Mercury	12824-07-16 18:28 G	6405127.17	6405127.27	6405127.38	0.0088	0.0066
Venus	12824-08-21 14:23 G	6405162.90	6405163.10	6405163.31	0.0088	0.0032
Mercury	12824-10-12 20:38 G	6405215.25	6405215.36	6405215.49	0.0088	0.0059
Mercury	12825-01-08 23:02 G	6405303.33	6405303.46	6405303.60	0.0088	0.0050
Venus	12825-04-04 02:38 G	6405388.45	6405388.61	6405388.81	0.0088	0.0052
Mercury	12825-04-07 01:26 G	6405391.42	6405391.56	6405391.71	0.0088	0.0042
Mercury	12825-07-04 03:50 G	6405479.51	6405479.66	6405479.81	0.0088	0.0034
Mercury	12825-09-30 06:14 G	6405567.60	6405567.76	6405567.92	0.0088	0.0026
Venus	12825-11-15 15:07 G	6405614.03	6405614.13	6405614.29	0.0088	0.0071
Mercury	12825-12-27 08:38 G	6405655.70	6405655.86	6405656.02	0.0088	0.0018
Mercury	12826-03-25 11:02 G	6405743.79	6405743.96	6405744.12	0.0088	0.0010
Mercury	12826-06-21 13:26 G	6405831.89	6405832.06	6405832.22	0.0088	0.0002
Mercury	12826-09-17 15:50 G	6405919.99	6405920.16	6405920.32	0.0088	0.0006
Mercury	12826-12-14 18:14 G	6406008.09	6406008.26	6406008.42	0.0088	0.0014
Mercury	12827-03-12 20:38 G	6406096.20	6406096.36	6406096.52	0.0088	0.0022
Mercury	12827-06-08 22:48 G	6406184.31	6406184.45	6406184.62	0.0088	0.0031
Mercury	12827-09-05 01:26 G	6406272.41	6406272.56	6406272.71	0.0088	0.0039
Mercury	12827-12-02 03:50 G	6406360.52	6406360.66	6406360.81	0.0088	0.0047
Mercury	12828-02-28 06:28 G	6406448.64	6406448.77	6406448.90	0.0088	0.0055
Mercury	12828-05-26 08:38 G	6406536.76	6406536.86	6406536.99	0.0088	0.0064
Mercury	12828-08-22 11:16 G	6406624.88	6406624.97	6406625.07	0.0088	0.0072
Mercury	12828-11-18 13:55 G	6406713.02	6406713.08	6406713.15	0.0088	0.0080
Earth	12853-11-04 17:31 G	6415830.19	6415830.23	6415830.32	0.0088	0.0085
Moon	12853-11-04 20:09 G	6415830.30	6415830.34	6415830.44	0.0088	0.0085 *
Moon	12854-11-07 03:21 G	6416197.54	6416197.64	6416197.78	0.0088	0.0077

Earth	12854-11-07 05:02 G	6416197.60	6416197.71	6416197.85	0.0088	0.0076 *
Moon	12855-11-09 16:48 G	6416565.03	6416565.20	6416565.37	0.0088	0.0066
Earth	12855-11-09 16:48 G	6416565.04	6416565.20	6416565.37	0.0088	0.0067 *
Earth	12856-11-11 03:21 G	6416932.48	6416932.64	6416932.86	0.0088	0.0059
Moon	12856-11-11 04:19 G	6416932.51	6416932.68	6416932.89	0.0088	0.0059 *
Moon	12857-11-13 12:57 G	6417299.83	6417300.04	6417300.28	0.0088	0.0049
Earth	12857-11-13 14:52 G	6417299.93	6417300.12	6417300.36	0.0088	0.0050 *
Earth	12858-11-16 02:52 G	6417667.39	6417667.62	6417667.85	0.0088	0.0040
Moon	12858-11-16 05:45 G	6417667.53	6417667.74	6417667.98	0.0088	0.0041 *
Moon	12859-11-18 11:16 G	6418034.73	6418034.97	6418035.22	0.0088	0.0031
Earth	12859-11-18 14:38 G	6418034.87	6418035.11	6418035.36	0.0088	0.0031 *
Earth	12860-11-20 02:09 G	6418402.35	6418402.59	6418402.85	0.0088	0.0022
Moon	12860-11-20 06:00 G	6418402.51	6418402.75	6418403.01	0.0088	0.0022 *
Moon	12861-11-22 10:48 G	6418769.71	6418769.95	6418770.21	0.0088	0.0013
Earth	12861-11-22 13:55 G	6418769.83	6418770.08	6418770.35	0.0088	0.0013 *
Earth	12862-11-25 01:55 G	6419137.32	6419137.58	6419137.84	0.0088	0.0004
Moon	12862-11-25 04:33 G	6419137.43	6419137.69	6419137.96	0.0088	0.0004 *
Moon	12863-11-27 12:28 G	6419504.76	6419505.02	6419505.27	0.0088	0.0005
Earth	12863-11-27 13:55 G	6419504.82	6419505.08	6419505.34	0.0088	0.0006 *
Earth	12864-11-29 01:26 G	6419872.31	6419872.56	6419872.83	0.0088	0.0015
Moon	12864-11-29 01:40 G	6419872.31	6419872.57	6419872.84	0.0088	0.0015 *
Earth	12865-12-01 13:26 G	6420239.82	6420240.06	6420240.32	0.0088	0.0024
Moon	12865-12-01 14:09 G	6420239.85	6420240.09	6420240.34	0.0088	0.0023 *
Moon	12866-12-03 23:02 G	6420607.23	6420607.46	6420607.72	0.0088	0.0034
Earth	12866-12-04 01:26 G	6420607.33	6420607.56	6420607.81	0.0088	0.0034 *
Earth	12867-12-06 13:26 G	6420974.84	6420975.06	6420975.29	0.0088	0.0043
Moon	12867-12-06 16:19 G	6420974.97	6420975.18	6420975.42	0.0088	0.0042 *
Moon	12868-12-07 21:50 G	6421342.22	6421342.41	6421342.64	0.0088	0.0053
Earth	12868-12-08 00:57 G	6421342.36	6421342.54	6421342.78	0.0088	0.0053 *
Earth	12869-12-10 12:57 G	6421709.88	6421710.04	6421710.25	0.0088	0.0061



Moon	12869-12-10 17:02 G	6421710.03	6421710.21	6421710.41	0.0088	0.0060 *
Moon	12870-12-12 22:04 G	6422077.30	6422077.42	6422077.60	0.0088	0.0072
Earth	12870-12-13 01:11 G	6422077.42	6422077.55	6422077.73	0.0088	0.0070 *
Earth	12871-12-15 13:11 G	6422444.97	6422445.05	6422445.20	0.0088	0.0080
Moon	12871-12-15 16:33 G	6422445.07	6422445.19	6422445.33	0.0088	0.0077 *
Earth	12872-12-17 01:55 G	6422812.56	6422812.58	6422812.62	0.0088	0.0088
Mars	12882-09-04 12:43 G	6426360.99	6426361.03	6426361.10	0.0089	0.0087
Mars	12884-07-29 14:09 G	6427054.79	6427055.09	6427055.39	0.0089	0.0002
Mars	12886-06-23 12:14 G	6427748.94	6427749.01	6427749.15	0.0089	0.0083
Jupiter	12900-05-18 09:36 G	6432825.66	6432825.90	6432826.26	0.0089	0.0074
Venus	12904-04-19 04:48 G	6434257.58	6434257.70	6434257.84	0.0089	0.0071
Venus	12904-11-30 18:14 G	6434483.09	6434483.26	6434483.45	0.0089	0.0052
Venus	12905-07-14 07:40 G	6434708.61	6434708.82	6434709.03	0.0089	0.0032
Venus	12906-02-24 20:52 G	6434934.15	6434934.37	6434934.59	0.0089	0.0012
Venus	12906-10-08 10:04 G	6435159.70	6435159.92	6435160.14	0.0089	0.0008
Mercury	12906-10-28 06:43 G	6435179.76	6435179.78	6435179.84	0.0089	0.0086
Mercury	12907-01-24 08:52 G	6435267.81	6435267.87	6435267.96	0.0089	0.0077
Mercury	12907-04-22 10:48 G	6435355.87	6435355.95	6435356.06	0.0089	0.0070
Venus	12907-05-21 23:02 G	6435385.26	6435385.46	6435385.68	0.0089	0.0028
Mercury	12907-07-19 12:57 G	6435443.94	6435444.04	6435444.16	0.0089	0.0061
Mercury	12907-10-15 14:52 G	6435532.01	6435532.12	6435532.25	0.0089	0.0054
Venus	12908-01-02 12:14 G	6435610.85	6435611.01	6435611.22	0.0089	0.0049
Mercury	12908-01-11 17:02 G	6435620.08	6435620.21	6435620.34	0.0089	0.0046
Mercury	12908-04-08 19:11 G	6435708.16	6435708.30	6435708.43	0.0089	0.0038
Mercury	12908-07-05 20:52 G	6435796.23	6435796.37	6435796.52	0.0089	0.0030
Venus	12908-08-15 01:55 G	6435836.44	6435836.58	6435836.73	0.0089	0.0068
Mercury	12908-10-01 22:48 G	6435884.31	6435884.45	6435884.60	0.0089	0.0023
Mercury	12908-12-29 00:57 G	6435972.39	6435972.54	6435972.69	0.0089	0.0014
Mercury	12909-03-27 02:52 G	6436060.47	6436060.62	6436060.77	0.0089	0.0007
Venus	12909-03-28 14:52 G	6436062.10	6436062.12	6436062.17	0.0089	0.0088

Mercury	12909-06-23 04:48 G	6436148.55	6436148.70	6436148.85	0.0089	0.0001
Mercury	12909-09-19 06:43 G	6436236.63	6436236.78	6436236.93	0.0089	0.0009
Mercury	12909-12-16 08:23 G	6436324.71	6436324.85	6436325.00	0.0089	0.0017
Mercury	12910-03-14 10:19 G	6436412.79	6436412.93	6436413.08	0.0089	0.0024
Mercury	12910-06-10 12:14 G	6436500.87	6436501.01	6436501.15	0.0089	0.0032
Mercury	12910-09-06 13:55 G	6436588.96	6436589.08	6436589.22	0.0089	0.0040
Mercury	12910-12-03 16:04 G	6436677.04	6436677.17	6436677.30	0.0089	0.0047
Mercury	12911-03-01 17:45 G	6436765.13	6436765.24	6436765.36	0.0089	0.0054
Mercury	12911-05-28 19:40 G	6436853.22	6436853.32	6436853.43	0.0089	0.0062
Mercury	12911-08-24 21:21 G	6436941.31	6436941.39	6436941.49	0.0089	0.0069
Mercury	12911-11-20 23:16 G	6437029.40	6437029.47	6437029.55	0.0089	0.0077
Mercury	12912-02-17 00:43 G	6437117.50	6437117.53	6437117.60	0.0089	0.0085
Earth	12935-05-09 07:26 G	6445599.78	6445599.81	6445599.88	0.0089	0.0088
Moon	12935-05-09 11:31 G	6445599.96	6445599.98	6445600.01	0.0089	0.0089
Moon	12936-05-10 16:33 G	6445967.09	6445967.19	6445967.34	0.0089	0.0078
Earth	12936-05-10 19:40 G	6445967.22	6445967.32	6445967.46	0.0089	0.0079 *
Earth	12937-05-13 07:40 G	6446334.68	6446334.82	6446335.00	0.0089	0.0070
Moon	12937-05-13 10:33 G	6446334.79	6446334.94	6446335.12	0.0089	0.0070 *
Moon	12938-05-15 18:43 G	6446702.11	6446702.28	6446702.48	0.0089	0.0060
Earth	12938-05-15 19:55 G	6446702.16	6446702.33	6446702.54	0.0089	0.0061 *
Moon	12939-05-18 08:09 G	6447069.63	6447069.84	6447070.06	0.0089	0.0052
Earth	12939-05-18 07:55 G	6447069.64	6447069.83	6447070.06	0.0089	0.0051 *
Earth	12940-05-19 20:09 G	6447437.12	6447437.34	6447437.57	0.0089	0.0042
Moon	12940-05-19 20:52 G	6447437.16	6447437.37	6447437.60	0.0089	0.0042 *
Moon	12941-05-22 05:31 G	6447804.50	6447804.73	6447804.99	0.0089	0.0033
Earth	12941-05-22 07:55 G	6447804.61	6447804.83	6447805.08	0.0089	0.0033 *
Earth	12942-05-24 19:40 G	6448172.08	6448172.32	6448172.58	0.0089	0.0023
Moon	12942-05-24 22:48 G	6448172.21	6448172.45	6448172.70	0.0089	0.0022 *
Moon	12943-05-27 04:04 G	6448539.42	6448539.67	6448539.93	0.0089	0.0013
Earth	12943-05-27 07:26 G	6448539.56	6448539.81	6448540.07	0.0089	0.0014 *

Earth	12944-05-28 18:57 G	6448907.04	6448907.29	6448907.55	0.0089	0.0004
Moon	12944-05-28 22:33 G	6448907.19	6448907.44	6448907.70	0.0089	0.0005 *
Moon	12945-05-31 03:36 G	6449274.41	6449274.65	6449274.91	0.0089	0.0005
Earth	12945-05-31 06:43 G	6449274.52	6449274.78	6449275.03	0.0089	0.0005 *
Earth	12946-06-02 18:00 G	6449642.00	6449642.25	6449642.50	0.0089	0.0015
Moon	12946-06-02 20:38 G	6449642.10	6449642.36	6449642.62	0.0089	0.0014 *
Moon	12947-06-05 04:04 G	6450009.44	6450009.67	6450009.92	0.0089	0.0024
Earth	12947-06-05 05:16 G	6450009.48	6450009.72	6450009.98	0.0089	0.0024 *
Moon	12948-06-06 16:19 G	6450376.95	6450377.18	6450377.44	0.0089	0.0033
Earth	12948-06-06 16:33 G	6450376.96	6450377.19	6450377.44	0.0089	0.0033 *
Earth	12949-06-09 04:04 G	6450744.45	6450744.67	6450744.90	0.0089	0.0042
Moon	12949-06-09 04:48 G	6450744.50	6450744.70	6450744.93	0.0089	0.0044 *
Moon	12950-06-11 12:43 G	6451111.83	6451112.03	6451112.26	0.0089	0.0052
Earth	12950-06-11 15:36 G	6451111.95	6451112.15	6451112.36	0.0089	0.0052 *
Earth	12951-06-14 02:09 G	6451479.43	6451479.59	6451479.81	0.0089	0.0061
Moon	12951-06-14 05:31 G	6451479.57	6451479.73	6451479.93	0.0089	0.0061 *
Moon	12952-06-15 10:33 G	6451846.79	6451846.94	6451847.11	0.0089	0.0068
Earth	12952-06-15 13:26 G	6451846.94	6451847.06	6451847.25	0.0089	0.0071 *
Earth	12953-06-18 01:11 G	6452214.44	6452214.55	6452214.68	0.0089	0.0078
Moon	12953-06-18 04:33 G	6452214.60	6452214.69	6452214.83	0.0089	0.0079 *
Moon	12954-06-20 09:36 G	6452581.85	6452581.90	6452581.96	0.0089	0.0086
Earth	12954-06-20 12:00 G	6452581.97	6452582.00	6452582.07	0.0089	0.0087
Mars	12964-05-22 19:40 G	6456206.14	6456206.32	6456206.53	0.0089	0.0071
Mars	12966-04-18 10:33 G	6456901.64	6456901.94	6456902.28	0.0089	0.0024
Venus	12985-10-23 10:04 G	6464029.79	6464029.92	6464030.05	0.0088	0.0071
Venus	12986-06-05 22:48 G	6464255.28	6464255.45	6464255.63	0.0088	0.0051
Venus	12987-01-17 11:31 G	6464480.78	6464480.98	6464481.19	0.0088	0.0032
Venus	12987-08-31 00:14 G	6464706.29	6464706.51	6464706.73	0.0088	0.0013
Venus	12988-04-12 12:57 G	6464931.82	6464932.04	6464932.26	0.0088	0.0006
Mercury	12988-07-23 10:33 G	6465033.93	6465033.94	6465034.00	0.0088	0.0086

Mercury	12988-10-19 12:57 G	6465121.98	6465122.04	6465122.13	0.0088	0.0078
Venus	12988-11-24 01:26 G	6465157.36	6465157.56	6465157.78	0.0088	0.0025
Mercury	12989-01-15 15:21 G	6465210.05	6465210.14	6465210.25	0.0088	0.0070
Mercury	12989-04-13 17:45 G	6465298.13	6465298.24	6465298.36	0.0088	0.0062
Venus	12989-07-07 14:09 G	6465382.91	6465383.09	6465383.29	0.0088	0.0044
Mercury	12989-07-10 20:09 G	6465386.22	6465386.34	6465386.47	0.0088	0.0054
Mercury	12989-10-06 22:33 G	6465474.30	6465474.44	6465474.58	0.0088	0.0046
Mercury	12990-01-03 00:57 G	6465562.39	6465562.54	6465562.68	0.0088	0.0038
Venus	12990-02-18 02:52 G	6465608.48	6465608.62	6465608.79	0.0088	0.0063
Mercury	12990-04-01 02:52 G	6465650.48	6465650.62	6465650.79	0.0088	0.0031
Mercury	12990-06-28 05:31 G	6465738.57	6465738.73	6465738.89	0.0088	0.0022
Mercury	12990-09-24 07:55 G	6465826.67	6465826.83	6465826.99	0.0088	0.0014
Venus	12990-10-01 15:36 G	6465834.09	6465834.15	6465834.24	0.0088	0.0082
Mercury	12990-12-21 10:19 G	6465914.76	6465914.93	6465915.10	0.0088	0.0006
Mercury	12991-03-19 12:43 G	6466002.86	6466003.03	6466003.20	0.0088	0.0002
Mercury	12991-06-15 15:07 G	6466090.96	6466091.13	6466091.29	0.0088	0.0010
Mercury	12991-09-11 17:31 G	6466179.07	6466179.23	6466179.39	0.0088	0.0018
Mercury	12991-12-08 19:55 G	6466267.17	6466267.33	6466267.49	0.0088	0.0026
Mercury	12992-03-05 22:04 G	6466355.28	6466355.42	6466355.59	0.0088	0.0035
Mercury	12992-06-02 00:28 G	6466443.39	6466443.52	6466443.68	0.0088	0.0043
Mercury	12992-08-29 03:07 G	6466531.50	6466531.63	6466531.77	0.0088	0.0051
Mercury	12992-11-25 05:45 G	6466619.62	6466619.74	6466619.86	0.0088	0.0059
Mercury	12993-02-21 07:55 G	6466707.74	6466707.83	6466707.95	0.0088	0.0068
Mercury	12993-05-20 10:33 G	6466795.86	6466795.94	6466796.03	0.0088	0.0076
Mercury	12993-08-16 13:11 G	6466884.01	6466884.05	6466884.09	0.0088	0.0084

# 14TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 14th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	13017-11-06 04:33	G	6475730.68	6475730.69	6475730.76	0.0088	0.0087	
Moon	13018-11-08 15:50	G	6476098.04	6476098.16	6476098.33	0.0088	0.0074	
Earth	13018-11-08 16:04	G	6476098.07	6476098.17	6476098.30	0.0088	0.0078	*
Earth	13019-11-11 03:07	G	6476465.50	6476465.63	6476465.81	0.0088	0.0070	
Moon	13019-11-11 05:02	G	6476465.59	6476465.71	6476465.86	0.0088	0.0074	*
Moon	13020-11-12 12:14	G	6476832.82	6476833.01	6476833.23	0.0088	0.0057	
Earth	13020-11-12 14:38	G	6476832.94	6476833.11	6476833.31	0.0088	0.0061	*
Earth	13021-11-15 02:09	G	6477200.39	6477200.59	6477200.80	0.0088	0.0052	
Moon	13021-11-15 05:16	G	6477200.54	6477200.72	6477200.92	0.0088	0.0057	*
Moon	13022-11-17 09:50	G	6477567.69	6477567.91	6477568.16	0.0088	0.0039	
Earth	13022-11-17 13:26	G	6477567.85	6477568.06	6477568.30	0.0088	0.0044	*
Earth	13023-11-20 00:43	G	6477935.31	6477935.53	6477935.79	0.0088	0.0035	
Moon	13023-11-20 04:19	G	6477935.46	6477935.68	6477935.93	0.0088	0.0039	*
Moon	13024-11-21 09:21	G	6478302.65	6478302.89	6478303.15	0.0088	0.0021	
Earth	13024-11-21 12:28	G	6478302.78	6478303.02	6478303.28	0.0088	0.0026	*
Earth	13025-11-24 00:00	G	6478670.26	6478670.50	6478670.77	0.0088	0.0017	
Moon	13025-11-24 01:55	G	6478670.33	6478670.58	6478670.85	0.0088	0.0021	*
Moon	13026-11-26 11:02	G	6479037.72	6479037.96	6479038.22	0.0088	0.0004	
Earth	13026-11-26 12:00	G	6479037.75	6479038.00	6479038.27	0.0088	0.0008	*
Moon	13027-11-28 23:45	G	6479405.22	6479405.49	6479405.76	0.0088	0.0003	
Earth	13027-11-29 00:00	G	6479405.24	6479405.50	6479405.76	0.0088	0.0002	*

Earth	13028-11-30 11:31 G	6479772.74	6479772.98	6479773.25	0.0088	0.0011
Moon	13028-11-30 13:26 G	6479772.82	6479773.06	6479773.32	0.0088	0.0015 *
Moon	13029-12-02 21:21 G	6480140.13	6480140.39	6480140.65	0.0088	0.0015
Earth	13029-12-02 23:31 G	6480140.24	6480140.48	6480140.75	0.0088	0.0020 *
Earth	13030-12-05 11:45 G	6480507.75	6480507.99	6480508.24	0.0088	0.0029
Moon	13030-12-05 14:52 G	6480507.89	6480508.12	6480508.36	0.0088	0.0034 *
Moon	13031-12-07 19:55 G	6480875.10	6480875.33	6480875.58	0.0088	0.0033
Earth	13031-12-07 23:31 G	6480875.26	6480875.48	6480875.73	0.0088	0.0038 *
Earth	13032-12-09 11:31 G	6481242.77	6481242.98	6481243.21	0.0088	0.0047
Moon	13032-12-09 14:38 G	6481242.92	6481243.11	6481243.34	0.0088	0.0051 *
Moon	13033-12-11 20:09 G	6481610.16	6481610.34	6481610.57	0.0088	0.0052
Earth	13033-12-11 23:45 G	6481610.29	6481610.49	6481610.70	0.0088	0.0056 *
Earth	13034-12-14 11:31 G	6481977.82	6481977.98	6481978.17	0.0088	0.0065
Moon	13034-12-14 13:40 G	6481977.91	6481978.07	6481978.24	0.0088	0.0069 *
Moon	13035-12-16 22:33 G	6482345.30	6482345.44	6482345.61	0.0088	0.0070
Earth	13035-12-16 23:31 G	6482345.36	6482345.48	6482345.64	0.0088	0.0074 *
Earth	13036-12-18 11:31 G	6482712.91	6482712.98	6482713.10	0.0088	0.0082
Moon	13036-12-18 11:16 G	6482712.95	6482712.97	6482713.06	0.0088	0.0087 *
Moon	13037-12-21 01:40 G	6483080.54	6483080.57	6483080.64	0.0088	0.0087
Mars	13048-03-15 21:36 G	6486818.14	6486818.40	6486818.69	0.0089	0.0037
Mars	13050-02-07 22:33 G	6487512.21	6487512.44	6487512.71	0.0089	0.0048
Venus	13068-07-22 15:50 G	6494252.09	6494252.16	6494252.29	0.0089	0.0080
Venus	13069-03-05 05:16 G	6494477.57	6494477.72	6494477.90	0.0089	0.0060
Venus	13069-10-16 18:43 G	6494703.09	6494703.28	6494703.49	0.0089	0.0039
Venus	13070-05-30 08:09 G	6494928.63	6494928.84	6494929.06	0.0089	0.0019
Venus	13071-01-10 21:36 G	6495154.18	6495154.40	6495154.62	0.0089	0.0001
Mercury	13071-04-29 04:48 G	6495262.69	6495262.70	6495262.72	0.0089	0.0089
Mercury	13071-07-26 06:57 G	6495350.73	6495350.79	6495350.85	0.0089	0.0081
Venus	13071-08-24 10:48 G	6495379.74	6495379.95	6495380.17	0.0089	0.0021
Mercury	13071-10-22 08:52 G	6495438.79	6495438.87	6495438.96	0.0089	0.0073

Mercury	13072-01-18 10:33 G	6495526.85	6495526.94	6495527.06	0.0089	0.0066
Venus	13072-04-06 00:00 G	6495605.31	6495605.50	6495605.70	0.0089	0.0041
Mercury	13072-04-15 12:43 G	6495614.92	6495615.03	6495615.16	0.0089	0.0057
Mercury	13072-07-12 14:38 G	6495703.00	6495703.11	6495703.25	0.0089	0.0050
Mercury	13072-10-08 16:48 G	6495791.07	6495791.20	6495791.34	0.0089	0.0041
Venus	13072-11-17 13:11 G	6495830.90	6495831.05	6495831.22	0.0089	0.0061
Mercury	13073-01-04 18:43 G	6495879.15	6495879.28	6495879.43	0.0089	0.0034
Mercury	13073-04-02 20:52 G	6495967.22	6495967.37	6495967.51	0.0089	0.0026
Mercury	13073-06-29 22:33 G	6496055.30	6496055.44	6496055.60	0.0089	0.0019
Venus	13073-07-01 02:23 G	6496056.52	6496056.60	6496056.71	0.0089	0.0081
Mercury	13073-09-26 00:43 G	6496143.38	6496143.53	6496143.68	0.0089	0.0010
Mercury	13073-12-23 02:38 G	6496231.46	6496231.61	6496231.76	0.0089	0.0002
Mercury	13074-03-21 04:33 G	6496319.54	6496319.69	6496319.84	0.0089	0.0005
Mercury	13074-06-17 06:14 G	6496407.62	6496407.76	6496407.92	0.0089	0.0014
Mercury	13074-09-13 08:23 G	6496495.70	6496495.85	6496495.99	0.0089	0.0021
Mercury	13074-12-10 10:04 G	6496583.79	6496583.92	6496584.07	0.0089	0.0028
Mercury	13075-03-08 12:00 G	6496671.87	6496672.00	6496672.14	0.0089	0.0036
Mercury	13075-06-04 13:55 G	6496759.95	6496760.08	6496760.21	0.0089	0.0043
Mercury	13075-08-31 15:50 G	6496848.04	6496848.16	6496848.28	0.0089	0.0051
Mercury	13075-11-27 17:31 G	6496936.13	6496936.23	6496936.35	0.0089	0.0058
Mercury	13076-02-23 19:26 G	6497024.22	6497024.31	6497024.41	0.0089	0.0066
Mercury	13076-05-21 21:07 G	6497112.31	6497112.38	6497112.47	0.0089	0.0074
Mercury	13076-08-17 23:02 G	6497200.41	6497200.46	6497200.53	0.0089	0.0081
Mercury	13076-11-14 00:43 G	6497288.52	6497288.53	6497288.57	0.0089	0.0088
Moon	13099-05-09 14:38 G	6505500.06	6505500.11	6505500.21	0.0089	0.0086
Earth	13100-05-12 06:00 G	6505867.65	6505867.75	6505867.87	0.0089	0.0081
Moon	13100-05-12 07:26 G	6505867.74	6505867.81	6505867.91	0.0089	0.0085 *
Moon	13101-05-14 16:48 G	6506235.07	6506235.20	6506235.39	0.0089	0.0069
Earth	13101-05-14 17:31 G	6506235.11	6506235.23	6506235.41	0.0089	0.0073 *
Moon	13102-05-17 05:16 G	6506602.58	6506602.72	6506602.92	0.0089	0.0068

Earth	13102-05-17 05:45 G	6506602.59	6506602.74	6506602.95	0.0089	0.0064 *
Earth	13103-05-19 17:45 G	6506970.06	6506970.24	6506970.47	0.0089	0.0055
Moon	13103-05-19 19:40 G	6506970.14	6506970.32	6506970.55	0.0089	0.0051 *
Moon	13104-05-21 03:21 G	6507337.45	6507337.64	6507337.88	0.0089	0.0050
Earth	13104-05-21 06:28 G	6507337.55	6507337.77	6507337.99	0.0089	0.0045 *
Earth	13105-05-23 18:28 G	6507705.04	6507705.27	6507705.50	0.0089	0.0036
Moon	13105-05-23 21:21 G	6507705.17	6507705.39	6507705.65	0.0089	0.0032 *
Moon	13106-05-26 02:52 G	6508072.38	6508072.62	6508072.86	0.0089	0.0031
Earth	13106-05-26 06:14 G	6508072.52	6508072.76	6508073.01	0.0089	0.0027 *
Earth	13107-05-28 18:00 G	6508440.01	6508440.25	6508440.51	0.0089	0.0017
Moon	13107-05-28 21:36 G	6508440.14	6508440.40	6508440.65	0.0089	0.0013 *
Moon	13108-05-30 02:52 G	6508807.38	6508807.62	6508807.87	0.0089	0.0013
Earth	13108-05-30 05:45 G	6508807.49	6508807.74	6508808.00	0.0089	0.0009 *
Earth	13109-06-01 17:31 G	6509174.97	6509175.23	6509175.49	0.0089	0.0001
Moon	13109-06-01 19:11 G	6509175.04	6509175.30	6509175.56	0.0089	0.0006 *
Moon	13110-06-04 04:04 G	6509542.43	6509542.67	6509542.92	0.0089	0.0006
Earth	13110-06-04 05:02 G	6509542.46	6509542.71	6509542.97	0.0089	0.0010 *
Moon	13111-06-06 15:36 G	6509909.91	6509910.15	6509910.42	0.0089	0.0025
Earth	13111-06-06 16:19 G	6509909.94	6509910.18	6509910.44	0.0089	0.0020 *
Earth	13112-06-08 03:50 G	6510277.42	6510277.66	6510277.91	0.0089	0.0029
Moon	13112-06-08 05:45 G	6510277.51	6510277.74	6510277.98	0.0089	0.0024 *
Moon	13113-06-10 12:28 G	6510644.81	6510645.02	6510645.27	0.0089	0.0042
Earth	13113-06-10 15:21 G	6510644.91	6510645.14	6510645.38	0.0089	0.0038 *
Earth	13114-06-13 02:38 G	6511012.39	6511012.61	6511012.83	0.0089	0.0047
Moon	13114-06-13 05:31 G	6511012.53	6511012.73	6511012.98	0.0089	0.0043 *
Moon	13115-06-15 10:04 G	6511379.75	6511379.92	6511380.13	0.0089	0.0060
Earth	13115-06-15 13:55 G	6511379.89	6511380.08	6511380.29	0.0089	0.0055 *
Earth	13116-06-17 00:57 G	6511747.38	6511747.54	6511747.73	0.0089	0.0065
Moon	13116-06-17 04:04 G	6511747.51	6511747.67	6511747.89	0.0089	0.0061 *
Moon	13117-06-19 09:21 G	6512114.79	6512114.89	6512115.03	0.0089	0.0078



Earth	13117-06-19 12:00 G	6512114.89	6512115.00	6512115.18	0.0089	0.0074 *
Earth	13118-06-21 23:45 G	6512482.40	6512482.49	6512482.60	0.0089	0.0082
Moon	13118-06-22 00:57 G	6512482.43	6512482.54	6512482.69	0.0089	0.0077 *
Mars	13129-12-02 12:57 G	6516663.72	6516664.04	6516664.37	0.0089	0.0016
Mars	13131-10-29 03:50 G	6517359.54	6517359.66	6517359.84	0.0089	0.0079
Jupiter	13142-12-15 11:02 G	6521424.81	6521424.96	6521425.21	0.0088	0.0083
Venus	13150-01-26 21:21 G	6524024.32	6524024.39	6524024.52	0.0088	0.0078
Venus	13150-09-09 10:04 G	6524249.78	6524249.92	6524250.11	0.0088	0.0059
Venus	13151-04-22 23:16 G	6524475.28	6524475.47	6524475.67	0.0088	0.0039
Venus	13151-12-04 12:00 G	6524700.79	6524701.00	6524701.22	0.0088	0.0020
Venus	13152-07-17 00:43 G	6524926.31	6524926.53	6524926.76	0.0088	0.0002
Venus	13153-02-27 13:26 G	6525151.85	6525152.06	6525152.28	0.0088	0.0018
Mercury	13153-04-21 10:19 G	6525204.88	6525204.93	6525205.00	0.0088	0.0082
Mercury	13153-07-18 12:57 G	6525292.95	6525293.04	6525293.12	0.0088	0.0073
Venus	13153-10-11 01:55 G	6525377.39	6525377.58	6525377.79	0.0088	0.0037
Mercury	13153-10-14 14:52 G	6525381.03	6525381.12	6525381.24	0.0088	0.0066
Mercury	13154-01-10 17:16 G	6525469.11	6525469.22	6525469.35	0.0088	0.0058
Mercury	13154-04-08 19:26 G	6525557.19	6525557.31	6525557.46	0.0088	0.0050
Venus	13154-05-24 14:38 G	6525602.95	6525603.11	6525603.29	0.0088	0.0056
Mercury	13154-07-05 21:50 G	6525645.28	6525645.41	6525645.56	0.0088	0.0042
Mercury	13154-10-02 00:14 G	6525733.37	6525733.51	6525733.67	0.0088	0.0034
Mercury	13154-12-29 02:38 G	6525821.46	6525821.61	6525821.77	0.0088	0.0026
Venus	13155-01-05 03:21 G	6525828.54	6525828.64	6525828.77	0.0088	0.0075
Mercury	13155-03-27 05:02 G	6525909.55	6525909.71	6525909.87	0.0088	0.0018
Mercury	13155-06-23 07:26 G	6525997.65	6525997.81	6525997.97	0.0088	0.0010
Mercury	13155-09-19 09:50 G	6526085.74	6526085.91	6526086.07	0.0088	0.0002
Mercury	13155-12-16 12:14 G	6526173.84	6526174.01	6526174.17	0.0088	0.0006
Mercury	13156-03-13 14:38 G	6526261.95	6526262.11	6526262.27	0.0088	0.0014
Mercury	13156-06-09 16:48 G	6526350.05	6526350.20	6526350.37	0.0088	0.0023
Mercury	13156-09-05 19:11 G	6526438.15	6526438.30	6526438.47	0.0088	0.0031

Mercury	13156-12-02 21:36 G	6526526.26	6526526.40	6526526.56	0.0088	0.0039
Mercury	13157-03-01 00:14 G	6526614.37	6526614.51	6526614.65	0.0088	0.0047
Mercury	13157-05-28 02:23 G	6526702.49	6526702.60	6526702.74	0.0088	0.0056
Mercury	13157-08-24 05:02 G	6526790.60	6526790.71	6526790.83	0.0088	0.0064
Mercury	13157-11-20 07:26 G	6526878.73	6526878.81	6526878.92	0.0088	0.0072
Mercury	13158-02-16 09:50 G	6526966.86	6526966.91	6526966.99	0.0088	0.0081
Earth	13181-11-06 16:19 G	6535631.18	6535631.18	6535631.19	0.0088	0.0088
Earth	13182-11-09 03:07 G	6535998.55	6535998.63	6535998.76	0.0088	0.0080
Moon	13182-11-09 04:48 G	6535998.61	6535998.70	6535998.83	0.0088	0.0079 *
Moon	13183-11-11 11:16 G	6536365.86	6536365.97	6536366.14	0.0088	0.0074
Earth	13183-11-11 14:23 G	6536365.98	6536366.10	6536366.28	0.0088	0.0072 *
Earth	13184-11-13 01:55 G	6536733.42	6536733.58	6536733.77	0.0088	0.0063
Moon	13184-11-13 05:02 G	6536733.55	6536733.71	6536733.92	0.0088	0.0062 *
Moon	13185-11-15 09:36 G	6537100.72	6537100.90	6537101.12	0.0088	0.0056
Earth	13185-11-15 13:11 G	6537100.87	6537101.05	6537101.28	0.0088	0.0055 *
Earth	13186-11-18 00:57 G	6537468.33	6537468.54	6537468.77	0.0088	0.0046
Moon	13186-11-18 04:04 G	6537468.46	6537468.67	6537468.92	0.0088	0.0045 *
Moon	13187-11-20 09:36 G	6537835.70	6537835.90	6537836.15	0.0088	0.0039
Earth	13187-11-20 12:28 G	6537835.79	6537836.02	6537836.26	0.0088	0.0037 *
Earth	13188-11-21 23:31 G	6538203.25	6538203.48	6538203.74	0.0088	0.0029
Moon	13188-11-22 01:40 G	6538203.33	6538203.57	6538203.83	0.0088	0.0029 *
Moon	13189-11-24 11:16 G	6538570.73	6538570.97	6538571.22	0.0088	0.0021
Earth	13189-11-24 11:16 G	6538570.73	6538570.97	6538571.24	0.0088	0.0020 *
Moon	13190-11-26 22:04 G	6538938.16	6538938.42	6538938.69	0.0088	0.0010
Earth	13190-11-26 23:02 G	6538938.21	6538938.46	6538938.72	0.0088	0.0011 *
Earth	13191-11-29 10:48 G	6539305.69	6539305.95	6539306.21	0.0088	0.0003
Moon	13191-11-29 12:28 G	6539305.77	6539306.02	6539306.28	0.0088	0.0003 *
Moon	13192-11-30 19:11 G	6539673.04	6539673.30	6539673.57	0.0088	0.0008
Earth	13192-11-30 22:33 G	6539673.18	6539673.44	6539673.70	0.0088	0.0007 *
Earth	13193-12-03 10:33 G	6540040.68	6540040.94	6540041.19	0.0088	0.0015

Moon	13193-12-03 13:40 G	6540040.82	6540041.07	6540041.33	0.0088	0.0015 *
Moon	13194-12-05 18:43 G	6540408.04	6540408.28	6540408.54	0.0088	0.0024
Earth	13194-12-05 22:19 G	6540408.19	6540408.43	6540408.69	0.0088	0.0024 *
Earth	13195-12-08 10:04 G	6540775.69	6540775.92	6540776.17	0.0088	0.0033
Moon	13195-12-08 13:40 G	6540775.83	6540776.07	6540776.32	0.0088	0.0033 *
Moon	13196-12-09 19:26 G	6541143.11	6541143.31	6541143.56	0.0088	0.0043
Earth	13196-12-09 22:04 G	6541143.21	6541143.42	6541143.67	0.0088	0.0042 *
Earth	13197-12-12 10:19 G	6541510.73	6541510.93	6541511.15	0.0088	0.0051
Moon	13197-12-12 12:00 G	6541510.80	6541511.00	6541511.24	0.0088	0.0052 *
Earth	13198-12-14 22:04 G	6541878.25	6541878.42	6541878.63	0.0088	0.0060
Moon	13198-12-14 22:04 G	6541878.25	6541878.42	6541878.62	0.0088	0.0060 *
Moon	13199-12-17 09:50 G	6542245.74	6542245.91	6542246.08	0.0088	0.0068
Earth	13199-12-17 10:33 G	6542245.78	6542245.94	6542246.11	0.0088	0.0068 *
Earth	13200-12-18 22:04 G	6542613.32	6542613.42	6542613.58	0.0088	0.0077
Moon	13200-12-19 00:00 G	6542613.39	6542613.50	6542613.65	0.0088	0.0076 *
Moon	13201-12-21 07:26 G	6542980.75	6542980.81	6542980.90	0.0088	0.0085
Earth	13201-12-21 10:33 G	6542980.89	6542980.94	6542981.03	0.0088	0.0085 *
Mars	13211-10-31 04:19 G	6546581.54	6546581.68	6546581.89	0.0089	0.0072
Mars	13213-09-24 07:11 G	6547275.52	6547275.80	6547276.11	0.0089	0.0014
Venus	13232-10-25 03:36 G	6554246.61	6554246.65	6554246.72	0.0089	0.0087
Venus	13233-06-07 17:02 G	6554472.07	6554472.21	6554472.36	0.0089	0.0067
Venus	13234-01-19 06:28 G	6554697.59	6554697.77	6554697.96	0.0089	0.0047
Venus	13234-09-01 19:55 G	6554923.12	6554923.33	6554923.54	0.0089	0.0027
Venus	13235-04-15 09:07 G	6555148.66	6555148.88	6555149.10	0.0089	0.0007
Venus	13235-11-26 22:33 G	6555374.22	6555374.44	6555374.66	0.0089	0.0013
Mercury	13236-01-25 04:33 G	6555433.65	6555433.69	6555433.75	0.0089	0.0084
Mercury	13236-04-22 06:28 G	6555521.71	6555521.77	6555521.86	0.0089	0.0077
Venus	13236-07-09 11:31 G	6555599.79	6555599.98	6555600.20	0.0089	0.0034
Mercury	13236-07-19 08:38 G	6555609.77	6555609.86	6555609.96	0.0089	0.0068
Mercury	13236-10-15 10:33 G	6555697.84	6555697.94	6555698.06	0.0089	0.0061

Mercury	13237-01-11 12:43 G	6555785.91	6555786.03	6555786.16	0.0089	0.0053
Venus	13237-02-20 00:43 G	6555825.37	6555825.53	6555825.72	0.0089	0.0054
Mercury	13237-04-09 14:38 G	6555873.99	6555874.11	6555874.25	0.0089	0.0045
Mercury	13237-07-06 16:33 G	6555962.06	6555962.19	6555962.34	0.0089	0.0037
Mercury	13237-10-02 18:28 G	6556050.14	6556050.27	6556050.42	0.0089	0.0030
Venus	13237-10-03 13:55 G	6556050.97	6556051.08	6556051.22	0.0089	0.0074
Mercury	13237-12-29 20:38 G	6556138.21	6556138.36	6556138.51	0.0089	0.0021
Mercury	13238-03-27 22:33 G	6556226.29	6556226.44	6556226.59	0.0089	0.0014
Mercury	13238-06-24 00:28 G	6556314.37	6556314.52	6556314.67	0.0089	0.0006
Mercury	13238-09-20 02:23 G	6556402.45	6556402.60	6556402.75	0.0089	0.0003
Mercury	13238-12-17 04:19 G	6556490.53	6556490.68	6556490.83	0.0089	0.0010
Mercury	13239-03-15 06:14 G	6556578.61	6556578.76	6556578.91	0.0089	0.0017
Mercury	13239-06-11 07:55 G	6556666.70	6556666.83	6556666.99	0.0089	0.0026
Mercury	13239-09-07 10:04 G	6556754.78	6556754.92	6556755.06	0.0089	0.0032
Mercury	13239-12-04 11:45 G	6556842.87	6556842.99	6556843.13	0.0089	0.0040
Mercury	13240-03-01 13:40 G	6556930.95	6556931.07	6556931.20	0.0089	0.0048
Mercury	13240-05-28 15:21 G	6557019.04	6557019.14	6557019.27	0.0089	0.0056
Mercury	13240-08-24 17:31 G	6557107.13	6557107.23	6557107.34	0.0089	0.0063
Mercury	13240-11-20 18:57 G	6557195.22	6557195.29	6557195.40	0.0089	0.0071
Mercury	13241-02-16 21:07 G	6557283.31	6557283.38	6557283.46	0.0089	0.0078
Mercury	13241-05-15 23:02 G	6557371.42	6557371.46	6557371.50	0.0089	0.0085
Moon	13263-05-10 06:14 G	6565400.75	6565400.76	6565400.81	0.0089	0.0089
Earth	13264-05-11 16:33 G	6565768.12	6565768.19	6565768.31	0.0089	0.0083
Moon	13264-05-11 16:33 G	6565768.15	6565768.19	6565768.29	0.0089	0.0086 *
Moon	13265-05-14 03:50 G	6566135.52	6566135.66	6566135.83	0.0089	0.0072
Earth	13265-05-14 04:33 G	6566135.58	6566135.69	6566135.86	0.0089	0.0075 *
Earth	13266-05-16 16:33 G	6566503.04	6566503.19	6566503.39	0.0089	0.0066
Moon	13266-05-16 18:28 G	6566503.13	6566503.27	6566503.46	0.0089	0.0068 *
Moon	13267-05-19 01:55 G	6566870.37	6566870.58	6566870.79	0.0089	0.0054
Earth	13267-05-19 05:02 G	6566870.52	6566870.71	6566870.92	0.0089	0.0057 *

Earth	13268-05-20 17:02 G	6567238.00	6567238.21	6567238.43	0.0089	0.0048
Moon	13268-05-20 20:09 G	6567238.15	6567238.34	6567238.57	0.0089	0.0050 *
Moon	13269-05-23 01:12 G	6567605.33	6567605.55	6567605.79	0.0089	0.0038
Earth	13269-05-23 05:02 G	6567605.49	6567605.71	6567605.95	0.0089	0.0039 *
Earth	13270-05-25 17:02 G	6567972.97	6567973.21	6567973.45	0.0089	0.0030
Moon	13270-05-25 20:09 G	6567973.10	6567973.34	6567973.59	0.0089	0.0032 *
Moon	13271-05-28 02:38 G	6568340.37	6568340.61	6568340.86	0.0089	0.0020
Earth	13271-05-28 05:02 G	6568340.46	6568340.71	6568340.96	0.0089	0.0021 *
Earth	13272-05-29 16:33 G	6568707.95	6568708.19	6568708.46	0.0089	0.0013
Moon	13272-05-29 18:28 G	6568708.01	6568708.27	6568708.54	0.0089	0.0013 *
Earth	13273-06-01 04:33 G	6569075.44	6569075.69	6569075.95	0.0089	0.0003
Moon	13273-06-01 04:48 G	6569075.45	6569075.70	6569075.95	0.0089	0.0002 *
Moon	13274-06-03 14:52 G	6569442.86	6569443.12	6569443.39	0.0089	0.0006
Earth	13274-06-03 16:04 G	6569442.92	6569443.17	6569443.43	0.0089	0.0006 *
Earth	13275-06-06 03:21 G	6569810.40	6569810.64	6569810.90	0.0089	0.0016
Moon	13275-06-06 05:31 G	6569810.49	6569810.73	6569810.98	0.0089	0.0016 *
Moon	13276-06-07 11:45 G	6570177.74	6570177.99	6570178.25	0.0089	0.0022
Earth	13276-06-07 14:52 G	6570177.89	6570178.12	6570178.38	0.0089	0.0024 *
Earth	13277-06-10 02:24 G	6570545.36	6570545.60	6570545.84	0.0089	0.0033
Moon	13277-06-10 05:31 G	6570545.51	6570545.73	6570545.98	0.0089	0.0033 *
Moon	13278-06-12 09:50 G	6570912.70	6570912.91	6570913.15	0.0089	0.0041
Earth	13278-06-12 13:40 G	6570912.85	6570913.07	6570913.30	0.0089	0.0042 *
Earth	13279-06-15 00:43 G	6571280.34	6571280.53	6571280.76	0.0089	0.0051
Moon	13279-06-15 03:36 G	6571280.46	6571280.65	6571280.89	0.0089	0.0052 *
Moon	13280-06-16 09:36 G	6571647.74	6571647.90	6571648.11	0.0089	0.0059
Earth	13280-06-16 12:00 G	6571647.83	6571648.00	6571648.21	0.0089	0.0059 *
Earth	13281-06-18 23:31 G	6572015.32	6572015.48	6572015.65	0.0089	0.0067
Moon	13281-06-19 00:43 G	6572015.38	6572015.53	6572015.73	0.0089	0.0068 *
Earth	13282-06-21 10:19 G	6572382.82	6572382.93	6572383.09	0.0089	0.0076
Moon	13282-06-21 11:02 G	6572382.84	6572382.96	6572383.09	0.0089	0.0075 *

Moon	13283-06-23 20:38 G	6572750.29	6572750.36	6572750.46	0.0089	0.0084
Earth	13283-06-23 21:50 G	6572750.35	6572750.41	6572750.51	0.0089	0.0084 *
Mars	13293-07-16 16:19 G	6576425.96	6576426.18	6576426.47	0.0089	0.0055
Mars	13295-06-12 07:12 G	6577121.52	6577121.80	6577122.11	0.0089	0.0040
Jupiter	13309-02-22 21:36 G	6582124.93	6582125.40	6582125.96	0.0088	0.0037
Venus	13314-05-01 09:07 G	6584018.85	6584018.88	6584018.97	0.0088	0.0085
Venus	13314-12-12 21:50 G	6584244.29	6584244.41	6584244.58	0.0088	0.0067
Venus	13315-07-26 11:02 G	6584469.78	6584469.96	6584470.16	0.0088	0.0047
Venus	13316-03-07 23:45 G	6584695.29	6584695.49	6584695.70	0.0088	0.0027
Venus	13316-10-19 12:28 G	6584920.80	6584921.02	6584921.24	0.0088	0.0008
Venus	13317-06-02 01:12 G	6585146.34	6585146.55	6585146.77	0.0088	0.0011
Mercury	13317-10-21 07:26 G	6585287.79	6585287.81	6585287.87	0.0088	0.0085
Venus	13318-01-13 13:40 G	6585371.88	6585372.07	6585372.29	0.0088	0.0030
Mercury	13318-01-17 09:50 G	6585375.85	6585375.91	6585376.00	0.0088	0.0077
Mercury	13318-04-15 12:14 G	6585463.92	6585464.01	6585464.12	0.0088	0.0069
Mercury	13318-07-12 14:38 G	6585552.00	6585552.11	6585552.23	0.0088	0.0061
Venus	13318-08-27 02:24 G	6585597.43	6585597.60	6585597.79	0.0088	0.0049
Mercury	13318-10-08 17:02 G	6585640.08	6585640.21	6585640.34	0.0088	0.0053
Mercury	13319-01-04 18:57 G	6585728.16	6585728.29	6585728.44	0.0088	0.0046
Mercury	13319-04-02 21:21 G	6585816.25	6585816.39	6585816.55	0.0088	0.0038
Venus	13319-04-09 15:07 G	6585823.00	6585823.13	6585823.28	0.0088	0.0068
Mercury	13319-06-29 23:45 G	6585904.34	6585904.49	6585904.65	0.0088	0.0030
Mercury	13319-09-26 02:09 G	6585992.43	6585992.59	6585992.75	0.0088	0.0022
Venus	13319-11-21 03:50 G	6586048.64	6586048.66	6586048.69	0.0088	0.0087
Mercury	13319-12-23 04:33 G	6586080.53	6586080.69	6586080.85	0.0088	0.0014
Mercury	13320-03-20 06:57 G	6586168.62	6586168.79	6586168.95	0.0088	0.0006
Mercury	13320-06-16 09:21 G	6586256.72	6586256.89	6586257.05	0.0088	0.0003
Mercury	13320-09-12 11:31 G	6586344.82	6586344.98	6586345.15	0.0088	0.0011
Mercury	13320-12-09 13:55 G	6586432.92	6586433.08	6586433.25	0.0088	0.0019
Mercury	13321-03-07 16:19 G	6586521.03	6586521.18	6586521.34	0.0088	0.0027

Mercury	13321-06-03 18:43 G	6586609.14	6586609.28	6586609.44	0.0088	0.0035
Mercury	13321-08-30 21:21 G	6586697.24	6586697.39	6586697.53	0.0088	0.0043
Mercury	13321-11-26 23:31 G	6586785.36	6586785.48	6586785.62	0.0088	0.0052
Mercury	13322-02-23 01:55 G	6586873.47	6586873.58	6586873.71	0.0088	0.0060
Mercury	13322-05-22 04:33 G	6586961.59	6586961.69	6586961.80	0.0088	0.0068
Mercury	13322-08-18 06:43 G	6587049.72	6587049.78	6587049.88	0.0088	0.0077
Mercury	13322-11-14 09:21 G	6587137.86	6587137.89	6587137.94	0.0088	0.0085
Moon	13345-11-07 05:45 G	6595531.71	6595531.74	6595531.81	0.0088	0.0086
Moon	13346-11-09 11:31 G	6595898.93	6595898.98	6595899.06	0.0088	0.0085
Earth	13346-11-09 14:38 G	6595899.03	6595899.11	6595899.22	0.0088	0.0081 *
Earth	13347-11-12 01:55 G	6596266.44	6596266.58	6596266.72	0.0088	0.0073
Moon	13347-11-12 05:16 G	6596266.58	6596266.72	6596266.90	0.0088	0.0069 *
Moon	13348-11-13 09:36 G	6596633.76	6596633.90	6596634.08	0.0088	0.0069
Earth	13348-11-13 13:12 G	6596633.89	6596634.05	6596634.23	0.0088	0.0065 *
Earth	13349-11-16 00:28 G	6597001.34	6597001.52	6597001.73	0.0088	0.0057
Moon	13349-11-16 03:21 G	6597001.46	6597001.64	6597001.88	0.0088	0.0053 *
Moon	13350-11-18 09:36 G	6597368.71	6597368.90	6597369.12	0.0088	0.0053
Earth	13350-11-18 12:14 G	6597368.79	6597369.01	6597369.22	0.0088	0.0048 *
Earth	13351-11-20 23:16 G	6597736.25	6597736.47	6597736.71	0.0088	0.0040
Moon	13351-11-21 00:14 G	6597736.27	6597736.51	6597736.76	0.0088	0.0036 *
Earth	13352-11-22 10:33 G	6598103.72	6598103.94	6598104.20	0.0088	0.0032
Moon	13352-11-22 10:33 G	6598103.73	6598103.94	6598104.18	0.0088	0.0036 *
Moon	13353-11-24 20:38 G	6598471.11	6598471.36	6598471.64	0.0088	0.0019
Earth	13353-11-24 22:19 G	6598471.19	6598471.43	6598471.69	0.0088	0.0024 *
Earth	13354-11-27 10:04 G	6598838.66	6598838.92	6598839.18	0.0088	0.0015
Moon	13354-11-27 12:28 G	6598838.78	6598839.02	6598839.28	0.0088	0.0019 *
Moon	13355-11-29 18:28 G	6599206.01	6599206.27	6599206.54	0.0088	0.0002
Earth	13355-11-29 21:36 G	6599206.14	6599206.40	6599206.66	0.0088	0.0006 *
Earth	13356-12-01 09:21 G	6599573.63	6599573.89	6599574.15	0.0088	0.0003
Moon	13356-12-01 13:12 G	6599573.79	6599574.05	6599574.30	0.0088	0.0003 *

Moon	13357-12-03 17:31 G	6599940.99	6599941.23	6599941.50	0.0088	0.0017
Earth	13357-12-03 21:07 G	6599941.13	6599941.38	6599941.64	0.0088	0.0011 *
Earth	13358-12-06 08:38 G	6600308.62	6600308.86	6600309.13	0.0088	0.0021
Moon	13358-12-06 12:14 G	6600308.75	6600309.01	6600309.27	0.0088	0.0016 *
Moon	13359-12-08 18:43 G	6600676.05	6600676.28	6600676.52	0.0088	0.0033
Earth	13359-12-08 21:07 G	6600676.13	6600676.38	6600676.62	0.0088	0.0029 *
Earth	13360-12-10 08:52 G	6601043.64	6601043.87	6601044.11	0.0088	0.0037
Moon	13360-12-10 09:36 G	6601043.66	6601043.90	6601044.16	0.0088	0.0033 *
Earth	13361-12-12 20:38 G	6601411.16	6601411.36	6601411.61	0.0088	0.0046
Moon	13361-12-12 20:38 G	6601411.17	6601411.36	6601411.59	0.0088	0.0051 *
Moon	13362-12-15 07:40 G	6601778.60	6601778.82	6601779.05	0.0088	0.0050
Earth	13362-12-15 09:07 G	6601778.69	6601778.88	6601779.10	0.0088	0.0054 *
Earth	13363-12-17 21:07 G	6602146.21	6602146.38	6602146.57	0.0088	0.0063
Moon	13363-12-17 23:16 G	6602146.33	6602146.47	6602146.66	0.0088	0.0068 *
Moon	13364-12-19 06:00 G	6602513.60	6602513.75	6602513.95	0.0088	0.0067
Earth	13364-12-19 09:07 G	6602513.75	6602513.88	6602514.06	0.0088	0.0071 *
Earth	13365-12-21 21:07 G	6602881.30	6602881.38	6602881.52	0.0088	0.0080
Moon	13365-12-22 00:57 G	6602881.49	6602881.54	6602881.64	0.0088	0.0084 *
Moon	13366-12-24 05:45 G	6603248.69	6603248.74	6603248.86	0.0088	0.0084
Earth	13366-12-24 09:21 G	6603248.88	6603248.89	6603248.95	0.0088	0.0088
Mars	13377-05-10 15:36 G	6607038.86	6607039.15	6607039.44	0.0089	0.0021
Mars	13379-04-04 16:19 G	6607733.00	6607733.18	6607733.42	0.0089	0.0064
Venus	13397-09-10 04:19 G	6614466.58	6614466.68	6614466.82	0.0089	0.0074
Venus	13398-04-23 17:45 G	6614692.08	6614692.24	6614692.43	0.0089	0.0054
Venus	13398-12-05 07:12 G	6614917.61	6614917.80	6614918.02	0.0089	0.0034
Venus	13399-07-18 20:38 G	6615143.15	6615143.36	6615143.59	0.0089	0.0015
Venus	13400-03-01 10:04 G	6615368.70	6615368.92	6615369.14	0.0089	0.0006
Mercury	13400-07-27 02:38 G	6615516.58	6615516.61	6615516.63	0.0089	0.0088
Venus	13400-10-12 23:16 G	6615594.27	6615594.47	6615594.69	0.0089	0.0026
Mercury	13400-10-23 04:33 G	6615604.62	6615604.69	6615604.76	0.0089	0.0080



Mercury	13401-01-19 06:43 G	6615692.69	6615692.78	6615692.87	0.0089	0.0072
Mercury	13401-04-17 08:24 G	6615780.76	6615780.85	6615780.97	0.0089	0.0064
Venus	13401-05-26 12:28 G	6615819.84	6615820.02	6615820.22	0.0089	0.0046
Mercury	13401-07-14 10:19 G	6615868.83	6615868.93	6615869.06	0.0089	0.0057
Mercury	13401-10-10 12:28 G	6615956.90	6615957.02	6615957.16	0.0089	0.0048
Mercury	13402-01-06 14:24 G	6616044.98	6616045.10	6616045.25	0.0089	0.0041
Venus	13402-01-07 01:40 G	6616045.45	6616045.57	6616045.74	0.0089	0.0067
Mercury	13402-04-04 16:33 G	6616133.05	6616133.19	6616133.34	0.0089	0.0032
Mercury	13402-07-01 18:28 G	6616221.13	6616221.27	6616221.42	0.0089	0.0025
Venus	13402-08-20 14:52 G	6616271.09	6616271.12	6616271.20	0.0089	0.0087
Mercury	13402-09-27 20:38 G	6616309.21	6616309.36	6616309.51	0.0089	0.0017
Mercury	13402-12-24 22:33 G	6616397.29	6616397.44	6616397.59	0.0089	0.0009
Mercury	13403-03-23 00:28 G	6616485.37	6616485.52	6616485.67	0.0089	0.0001
Mercury	13403-06-19 02:24 G	6616573.45	6616573.60	6616573.75	0.0089	0.0007
Mercury	13403-09-15 04:19 G	6616661.53	6616661.68	6616661.83	0.0089	0.0014
Mercury	13403-12-12 06:00 G	6616749.61	6616749.75	6616749.91	0.0089	0.0023
Mercury	13404-03-09 08:09 G	6616837.70	6616837.84	6616837.98	0.0089	0.0030
Mercury	13404-06-05 09:50 G	6616925.78	6616925.91	6616926.05	0.0089	0.0037
Mercury	13404-09-01 11:45 G	6617013.87	6617013.99	6617014.12	0.0089	0.0045
Mercury	13404-11-28 13:26 G	6617101.95	6617102.06	6617102.19	0.0089	0.0053
Mercury	13405-02-24 15:36 G	6617190.04	6617190.15	6617190.26	0.0089	0.0060
Mercury	13405-05-23 17:16 G	6617278.13	6617278.22	6617278.33	0.0089	0.0067
Mercury	13405-08-19 19:12 G	6617366.23	6617366.30	6617366.39	0.0089	0.0075
Mercury	13405-11-15 20:52 G	6617454.33	6617454.37	6617454.44	0.0089	0.0082
Moon	13428-05-13 01:26 G	6625668.47	6625668.56	6625668.70	0.0089	0.0081
Earth	13428-05-13 03:07 G	6625668.58	6625668.63	6625668.75	0.0089	0.0085 *
Earth	13429-05-15 15:36 G	6626036.03	6626036.15	6626036.30	0.0089	0.0076
Moon	13429-05-15 17:45 G	6626036.16	6626036.24	6626036.39	0.0089	0.0080 *
Moon	13430-05-18 00:14 G	6626403.35	6626403.51	6626403.72	0.0089	0.0064
Earth	13430-05-18 03:36 G	6626403.50	6626403.65	6626403.84	0.0089	0.0068 *

Earth	13431-05-20 15:50 G	6626770.97	6626771.16	6626771.36	0.0089	0.0059
Moon	13431-05-20 19:40 G	6626771.14	6626771.32	6626771.50	0.0089	0.0063 *
Moon	13432-05-22 00:28 G	6627138.32	6627138.52	6627138.75	0.0089	0.0047
Earth	13432-05-22 03:36 G	6627138.46	6627138.65	6627138.88	0.0089	0.0051 *
Earth	13433-05-24 15:36 G	6627505.94	6627506.15	6627506.39	0.0089	0.0042
Moon	13433-05-24 18:57 G	6627506.07	6627506.29	6627506.52	0.0089	0.0046 *
Moon	13434-05-27 01:55 G	6627873.35	6627873.58	6627873.82	0.0089	0.0029
Earth	13434-05-27 03:50 G	6627873.42	6627873.66	6627873.90	0.0089	0.0033 *
Earth	13435-05-29 15:21 G	6628240.91	6628241.14	6628241.41	0.0089	0.0025
Moon	13435-05-29 16:19 G	6628240.93	6628241.18	6628241.44	0.0089	0.0028 *
Earth	13436-05-31 03:36 G	6628608.41	6628608.65	6628608.91	0.0089	0.0016
Moon	13436-05-31 03:50 G	6628608.42	6628608.66	6628608.91	0.0089	0.0011 *
Moon	13437-06-02 13:40 G	6628975.81	6628976.07	6628976.34	0.0089	0.0011
Earth	13437-06-02 15:36 G	6628975.89	6628976.15	6628976.41	0.0089	0.0006 *
Earth	13438-06-05 03:21 G	6629343.38	6629343.64	6629343.90	0.0089	0.0002
Moon	13438-06-05 06:00 G	6629343.50	6629343.75	6629344.00	0.0089	0.0006 *
Moon	13439-06-07 12:00 G	6629710.74	6629711.00	6629711.26	0.0089	0.0007
Earth	13439-06-07 15:07 G	6629710.88	6629711.13	6629711.39	0.0089	0.0011 *
Earth	13440-06-09 02:38 G	6630078.36	6630078.61	6630078.86	0.0089	0.0020
Moon	13440-06-09 06:14 G	6630078.52	6630078.76	6630079.01	0.0089	0.0024 *
Moon	13441-06-11 10:48 G	6630445.72	6630445.95	6630446.20	0.0089	0.0024
Earth	13441-06-11 14:09 G	6630445.85	6630446.09	6630446.34	0.0089	0.0028 *
Earth	13442-06-14 01:12 G	6630813.33	6630813.55	6630813.80	0.0089	0.0037
Moon	13442-06-14 04:33 G	6630813.46	6630813.69	6630813.92	0.0089	0.0042 *
Moon	13443-06-16 10:48 G	6631180.75	6631180.95	6631181.19	0.0089	0.0041
Earth	13443-06-16 12:43 G	6631180.82	6631181.03	6631181.26	0.0089	0.0046 *
Earth	13444-06-17 23:45 G	6631548.31	6631548.49	6631548.71	0.0089	0.0054
Moon	13444-06-18 00:14 G	6631548.34	6631548.51	6631548.74	0.0089	0.0058 *
Earth	13445-06-20 11:02 G	6631915.79	6631915.96	6631916.16	0.0089	0.0062
Moon	13445-06-20 11:02 G	6631915.80	6631915.96	6631916.17	0.0089	0.0059 *

Moon	13446-06-22 19:55 G	6632283.22	6632283.33	6632283.50	0.0089	0.0075
Earth	13446-06-22 22:19 G	6632283.29	6632283.43	6632283.60	0.0089	0.0071 *
Earth	13447-06-25 09:07 G	6632650.79	6632650.88	6632651.03	0.0089	0.0079
Moon	13447-06-25 12:14 G	6632650.88	6632651.01	6632651.15	0.0089	0.0075 *
Earth	13448-06-26 20:52 G	6633018.32	6633018.37	6633018.43	0.0089	0.0086
Mars	13459-01-26 10:48 G	6636883.62	6636883.95	6636884.28	0.0089	0.0001
Jupiter	13475-05-01 11:31 G	6642822.42	6642822.98	6642823.54	0.0088	0.0012
Venus	13479-03-17 10:33 G	6644238.82	6644238.94	6644239.07	0.0088	0.0072
Venus	13479-10-28 23:02 G	6644464.30	6644464.46	6644464.65	0.0088	0.0054
Venus	13480-06-10 12:00 G	6644689.80	6644690.00	6644690.21	0.0088	0.0034
Venus	13481-01-22 00:43 G	6644915.32	6644915.53	6644915.75	0.0088	0.0015
Venus	13481-09-04 13:26 G	6645140.84	6645141.06	6645141.28	0.0088	0.0004
Venus	13482-04-18 01:55 G	6645366.37	6645366.58	6645366.80	0.0088	0.0023
Mercury	13482-04-22 05:02 G	6645370.71	6645370.71	6645370.74	0.0088	0.0088
Mercury	13482-07-19 07:12 G	6645458.75	6645458.80	6645458.88	0.0088	0.0080
Mercury	13482-10-15 09:36 G	6645546.82	6645546.90	6645547.00	0.0088	0.0072
Venus	13482-11-29 14:38 G	6645591.92	6645592.11	6645592.30	0.0088	0.0042
Mercury	13483-01-11 12:00 G	6645634.89	6645635.00	6645635.11	0.0088	0.0064
Mercury	13483-04-09 13:55 G	6645722.97	6645723.08	6645723.22	0.0088	0.0057
Mercury	13483-07-06 16:19 G	6645811.06	6645811.18	6645811.33	0.0088	0.0049
Venus	13483-07-13 03:21 G	6645817.49	6645817.64	6645817.80	0.0088	0.0062
Mercury	13483-10-02 18:43 G	6645899.14	6645899.28	6645899.43	0.0088	0.0041
Mercury	13483-12-29 21:07 G	6645987.23	6645987.38	6645987.53	0.0088	0.0033
Venus	13484-02-23 15:21 G	6646043.09	6646043.14	6646043.26	0.0088	0.0082
Mercury	13484-03-26 23:16 G	6646075.32	6646075.47	6646075.64	0.0088	0.0025
Mercury	13484-06-23 01:40 G	6646163.42	6646163.57	6646163.74	0.0088	0.0017
Mercury	13484-09-19 04:04 G	6646251.51	6646251.67	6646251.84	0.0088	0.0009
Mercury	13484-12-16 06:28 G	6646339.61	6646339.77	6646339.94	0.0088	0.0001
Mercury	13485-03-14 08:52 G	6646427.70	6646427.87	6646428.03	0.0088	0.0007
Mercury	13485-06-10 11:16 G	6646515.81	6646515.97	6646516.13	0.0088	0.0015

Mercury	13485-09-06 13:40 G	6646603.91	6646604.07	6646604.23	0.0088	0.0023
Mercury	13485-12-03 15:50 G	6646692.01	6646692.16	6646692.32	0.0088	0.0032
Mercury	13486-03-01 18:14 G	6646780.12	6646780.26	6646780.42	0.0088	0.0040
Mercury	13486-05-28 20:38 G	6646868.23	6646868.36	6646868.51	0.0088	0.0048
Mercury	13486-08-24 23:02 G	6646956.34	6646956.46	6646956.60	0.0088	0.0056
Mercury	13486-11-21 01:40 G	6647044.46	6647044.57	6647044.68	0.0088	0.0064
Mercury	13487-02-17 03:50 G	6647132.58	6647132.66	6647132.77	0.0088	0.0073
Mercury	13487-05-16 06:28 G	6647220.71	6647220.77	6647220.84	0.0088	0.0081
Moon	13509-11-08 11:02 G	6655431.95	6655431.96	6655432.03	0.0088	0.0087
Earth	13510-11-11 02:09 G	6655799.51	6655799.59	6655799.68	0.0088	0.0082
Moon	13510-11-11 05:02 G	6655799.67	6655799.71	6655799.81	0.0088	0.0085 *
Moon	13511-11-13 09:50 G	6656166.77	6656166.91	6656167.06	0.0088	0.0072
Earth	13511-11-13 12:57 G	6656166.93	6656167.04	6656167.20	0.0088	0.0075 *
Earth	13512-11-15 00:14 G	6656534.37	6656534.51	6656534.70	0.0088	0.0067
Moon	13512-11-15 03:07 G	6656534.48	6656534.63	6656534.80	0.0088	0.0069 *
Moon	13513-11-17 10:04 G	6656901.75	6656901.92	6656902.13	0.0088	0.0057
Earth	13513-11-17 11:45 G	6656901.82	6656901.99	6656902.20	0.0088	0.0059 *
Earth	13514-11-19 23:02 G	6657269.27	6657269.46	6657269.70	0.0088	0.0051
Moon	13514-11-19 23:45 G	6657269.30	6657269.49	6657269.73	0.0088	0.0053 *
Earth	13515-11-22 10:33 G	6657636.73	6657636.94	6657637.19	0.0088	0.0043
Moon	13515-11-22 11:45 G	6657636.78	6657636.99	6657637.22	0.0088	0.0040 *
Moon	13516-11-23 20:24 G	6658004.12	6658004.35	6658004.61	0.0088	0.0036
Earth	13516-11-23 22:19 G	6658004.20	6658004.43	6658004.68	0.0088	0.0034 *
Earth	13517-11-26 09:50 G	6658371.67	6658371.91	6658372.16	0.0088	0.0026
Moon	13517-11-26 12:43 G	6658371.79	6658372.03	6658372.28	0.0088	0.0024 *
Moon	13518-11-28 17:45 G	6658738.99	6658739.24	6658739.50	0.0088	0.0020
Earth	13518-11-28 21:07 G	6658739.14	6658739.38	6658739.65	0.0088	0.0018 *
Earth	13519-12-01 08:52 G	6659106.61	6659106.87	6659107.13	0.0088	0.0009
Moon	13519-12-01 12:14 G	6659106.76	6659107.01	6659107.28	0.0088	0.0009 *
Moon	13520-12-02 17:02 G	6659473.96	6659474.21	6659474.47	0.0088	0.0003

Earth	13520-12-02 20:38 G	6659474.10	6659474.36	6659474.62	0.0088	0.0001	*
Earth	13521-12-05 08:09 G	6659841.58	6659841.84	6659842.10	0.0088	0.0007	
Moon	13521-12-05 10:33 G	6659841.68	6659841.94	6659842.21	0.0088	0.0009	*
Moon	13522-12-07 18:00 G	6660209.01	6660209.25	6660209.50	0.0088	0.0015	
Earth	13522-12-07 19:40 G	6660209.07	6660209.32	6660209.58	0.0088	0.0016	*
Earth	13523-12-10 07:26 G	6660576.57	6660576.81	6660577.07	0.0088	0.0024	
Moon	13523-12-10 08:09 G	6660576.59	6660576.84	6660577.10	0.0088	0.0025	*
Earth	13524-12-11 19:12 G	6660944.08	6660944.30	6660944.56	0.0088	0.0033	
Moon	13524-12-11 20:24 G	6660944.13	6660944.35	6660944.60	0.0088	0.0031	*
Moon	13525-12-14 05:16 G	6661311.51	6661311.72	6661311.98	0.0088	0.0043	
Earth	13525-12-14 07:12 G	6661311.59	6661311.80	6661312.05	0.0088	0.0041	*
Earth	13526-12-16 19:12 G	6661679.10	6661679.30	6661679.53	0.0088	0.0050	
Moon	13526-12-16 21:50 G	6661679.22	6661679.41	6661679.64	0.0088	0.0049	*
Moon	13527-12-19 03:36 G	6662046.48	6662046.65	6662046.87	0.0088	0.0060	
Earth	13527-12-19 07:40 G	6662046.63	6662046.82	6662047.02	0.0088	0.0058	*
Earth	13528-12-20 19:55 G	6662414.16	6662414.33	6662414.50	0.0088	0.0066	
Moon	13528-12-20 23:31 G	6662414.31	6662414.48	6662414.65	0.0088	0.0066	*
Moon	13529-12-23 04:04 G	6662781.56	6662781.67	6662781.83	0.0088	0.0075	
Earth	13529-12-23 07:26 G	6662781.70	6662781.81	6662781.98	0.0088	0.0074	*
Earth	13530-12-25 19:26 G	6663149.25	6663149.31	6663149.44	0.0088	0.0083	
Moon	13530-12-25 22:04 G	6663149.35	6663149.42	6663149.55	0.0088	0.0082	*
Mars	13540-12-25 22:33 G	6666802.23	6666802.44	6666802.70	0.0089	0.0056	
Mars	13542-11-20 02:38 G	6667496.35	6667496.61	6667496.91	0.0089	0.0030	
Venus	13561-12-14 16:04 G	6674461.10	6674461.17	6674461.27	0.0089	0.0082	
Venus	13562-07-28 05:31 G	6674686.58	6674686.73	6674686.90	0.0089	0.0061	
Venus	13563-03-10 18:43 G	6674912.09	6674912.28	6674912.48	0.0089	0.0042	
Venus	13563-10-22 08:09 G	6675137.63	6675137.84	6675138.06	0.0089	0.0021	
Venus	13564-06-03 21:21 G	6675363.18	6675363.39	6675363.62	0.0089	0.0003	
Venus	13565-01-15 11:02 G	6675588.74	6675588.96	6675589.17	0.0089	0.0019	
Mercury	13565-04-24 02:09 G	6675687.54	6675687.59	6675687.65	0.0089	0.0084	

Mercury	13565-07-21 04:04 G	6675775.60	6675775.67	6675775.76	0.0089	0.0076
Venus	13565-08-29 00:14 G	6675814.31	6675814.51	6675814.71	0.0089	0.0039
Mercury	13565-10-17 06:14 G	6675863.67	6675863.76	6675863.86	0.0089	0.0068
Mercury	13566-01-13 08:24 G	6675951.74	6675951.85	6675951.96	0.0089	0.0060
Mercury	13566-04-11 10:19 G	6676039.81	6676039.93	6676040.06	0.0089	0.0052
Venus	13566-04-11 13:26 G	6676039.90	6676040.06	6676040.23	0.0089	0.0059 *
Mercury	13566-07-08 12:28 G	6676127.89	6676128.02	6676128.15	0.0089	0.0044
Mercury	13566-10-04 14:09 G	6676215.96	6676216.09	6676216.24	0.0089	0.0036
Venus	13566-11-23 02:52 G	6676265.52	6676265.62	6676265.72	0.0089	0.0079
Mercury	13566-12-31 16:19 G	6676304.04	6676304.18	6676304.33	0.0089	0.0028
Mercury	13567-03-29 18:14 G	6676392.12	6676392.26	6676392.41	0.0089	0.0021
Mercury	13567-06-25 20:24 G	6676480.20	6676480.35	6676480.50	0.0089	0.0012
Mercury	13567-09-21 22:19 G	6676568.28	6676568.43	6676568.58	0.0089	0.0005
Mercury	13567-12-19 00:14 G	6676656.36	6676656.51	6676656.66	0.0089	0.0003
Mercury	13568-03-16 02:09 G	6676744.44	6676744.59	6676744.74	0.0089	0.0011
Mercury	13568-06-12 04:04 G	6676832.53	6676832.67	6676832.82	0.0089	0.0019
Mercury	13568-09-08 06:00 G	6676920.61	6676920.75	6676920.90	0.0089	0.0026
Mercury	13568-12-05 07:40 G	6677008.69	6677008.82	6677008.97	0.0089	0.0035
Mercury	13569-03-03 09:50 G	6677096.78	6677096.91	6677097.04	0.0089	0.0041
Mercury	13569-05-30 11:31 G	6677184.87	6677184.98	6677185.11	0.0089	0.0049
Mercury	13569-08-26 13:26 G	6677272.95	6677273.06	6677273.18	0.0089	0.0057
Mercury	13569-11-22 15:07 G	6677361.04	6677361.13	6677361.25	0.0089	0.0065
Mercury	13570-02-18 17:16 G	6677449.14	6677449.22	6677449.31	0.0089	0.0072
Mercury	13570-05-17 18:57 G	6677537.23	6677537.29	6677537.37	0.0089	0.0079
Mercury	13570-08-13 20:52 G	6677625.34	6677625.37	6677625.41	0.0089	0.0087
Earth	13592-05-13 13:40 G	6685569.02	6685569.07	6685569.17	0.0089	0.0086
Moon	13592-05-13 16:33 G	6685569.12	6685569.19	6685569.32	0.0089	0.0083 *
Moon	13593-05-15 22:19 G	6685936.35	6685936.43	6685936.57	0.0089	0.0082
Earth	13593-05-16 01:55 G	6685936.48	6685936.58	6685936.74	0.0089	0.0078 *
Earth	13594-05-18 14:09 G	6686303.95	6686304.09	6686304.27	0.0089	0.0070

Moon	13594-05-18 17:45 G	6686304.09	6686304.24	6686304.43	0.0089	0.0067 *
Moon	13595-05-20 23:31 G	6686671.30	6686671.48	6686671.66	0.0089	0.0064
Earth	13595-05-21 02:38 G	6686671.43	6686671.61	6686671.81	0.0089	0.0061 *
Earth	13596-05-22 14:24 G	6687038.91	6687039.10	6687039.32	0.0089	0.0053
Moon	13596-05-22 16:48 G	6687039.00	6687039.20	6687039.43	0.0089	0.0050 *
Moon	13597-05-25 00:43 G	6687406.33	6687406.53	6687406.76	0.0089	0.0047
Earth	13597-05-25 02:09 G	6687406.39	6687406.59	6687406.84	0.0089	0.0045 *
Earth	13598-05-27 14:38 G	6687773.88	6687774.11	6687774.34	0.0089	0.0036
Moon	13598-05-27 14:38 G	6687773.88	6687774.11	6687774.37	0.0089	0.0033 *
Earth	13599-05-30 02:09 G	6688141.36	6688141.59	6688141.85	0.0089	0.0028
Moon	13599-05-30 03:21 G	6688141.42	6688141.64	6688141.89	0.0089	0.0031 *
Moon	13600-05-31 12:14 G	6688508.76	6688509.01	6688509.28	0.0089	0.0017
Earth	13600-05-31 14:09 G	6688508.85	6688509.09	6688509.35	0.0089	0.0019 *
Earth	13601-06-03 01:55 G	6688876.33	6688876.58	6688876.84	0.0089	0.0010
Moon	13601-06-03 05:02 G	6688876.46	6688876.71	6688876.96	0.0089	0.0012 *
Moon	13602-06-05 10:33 G	6689243.68	6689243.94	6689244.20	0.0089	0.0001
Earth	13602-06-05 13:55 G	6689243.83	6689244.08	6689244.34	0.0089	0.0003 *
Earth	13603-06-08 01:40 G	6689611.32	6689611.57	6689611.83	0.0089	0.0007
Moon	13603-06-08 05:16 G	6689611.47	6689611.72	6689611.98	0.0089	0.0006 *
Moon	13604-06-09 10:19 G	6689978.68	6689978.93	6689979.18	0.0089	0.0018
Earth	13604-06-09 13:40 G	6689978.82	6689979.07	6689979.32	0.0089	0.0016 *
Earth	13605-06-12 00:57 G	6690346.30	6690346.54	6690346.79	0.0089	0.0024
Moon	13605-06-12 03:07 G	6690346.39	6690346.63	6690346.90	0.0089	0.0023 *
Moon	13606-06-14 11:02 G	6690713.73	6690713.96	6690714.19	0.0089	0.0034
Earth	13606-06-14 12:28 G	6690713.79	6690714.02	6690714.27	0.0089	0.0033 *
Earth	13607-06-16 23:45 G	6691081.28	6691081.49	6691081.73	0.0089	0.0041
Moon	13607-06-17 00:00 G	6691081.28	6691081.50	6691081.75	0.0089	0.0040 *
Earth	13608-06-18 11:02 G	6691448.76	6691448.96	6691449.19	0.0089	0.0049
Moon	13608-06-18 12:14 G	6691448.83	6691449.01	6691449.23	0.0089	0.0051 *
Moon	13609-06-20 20:24 G	6691816.16	6691816.35	6691816.57	0.0089	0.0056

Earth	13609-06-20 22:19 G	6691816.25	6691816.43	6691816.64	0.0089	0.0058 *
Earth	13610-06-23 09:36 G	6692183.74	6692183.90	6692184.09	0.0089	0.0066
Moon	13610-06-23 12:28 G	6692183.88	6692184.02	6692184.21	0.0089	0.0067 *
Moon	13611-06-25 17:45 G	6692551.09	6692551.24	6692551.39	0.0089	0.0072
Earth	13611-06-25 20:52 G	6692551.24	6692551.37	6692551.53	0.0089	0.0074 *
Earth	13612-06-27 07:55 G	6692918.75	6692918.83	6692918.95	0.0089	0.0081
Moon	13612-06-27 12:00 G	6692918.90	6692919.00	6692919.10	0.0089	0.0082 *
Moon	13613-06-29 15:50 G	6693286.15	6693286.16	6693286.21	0.0089	0.0088
Earth	13613-06-29 19:26 G	6693286.31	6693286.31	6693286.32	0.0089	0.0089
Mars	13622-09-10 17:31 G	6696645.95	6696646.23	6696646.54	0.0089	0.0037
Mars	13624-08-06 05:45 G	6697341.50	6697341.74	6697342.00	0.0089	0.0056
Jupiter	13641-07-05 03:50 G	6703518.27	6703518.66	6703519.13	0.0088	0.0058
Venus	13643-06-19 21:50 G	6704233.34	6704233.41	6704233.53	0.0088	0.0080
Venus	13644-01-31 11:02 G	6704458.81	6704458.96	6704459.13	0.0088	0.0060
Venus	13644-09-12 23:31 G	6704684.30	6704684.48	6704684.69	0.0088	0.0042
Venus	13645-04-26 12:14 G	6704909.81	6704910.01	6704910.24	0.0088	0.0023
Venus	13645-12-08 01:12 G	6705135.33	6705135.55	6705135.77	0.0088	0.0003
Venus	13646-07-21 14:09 G	6705360.87	6705361.09	6705361.30	0.0088	0.0017
Mercury	13647-01-18 04:48 G	6705541.66	6705541.70	6705541.76	0.0088	0.0083
Venus	13647-03-04 02:24 G	6705586.41	6705586.60	6705586.81	0.0088	0.0036
Mercury	13647-04-16 07:12 G	6705629.72	6705629.80	6705629.88	0.0088	0.0075
Mercury	13647-07-13 09:07 G	6705717.79	6705717.88	6705718.00	0.0088	0.0068
Mercury	13647-10-09 11:31 G	6705805.87	6705805.98	6705806.11	0.0088	0.0060
Venus	13647-10-15 14:52 G	6705811.97	6705812.12	6705812.31	0.0088	0.0055
Mercury	13648-01-05 13:40 G	6705893.95	6705894.07	6705894.21	0.0088	0.0052
Mercury	13648-04-02 16:04 G	6705982.04	6705982.17	6705982.32	0.0088	0.0044
Venus	13648-05-28 03:36 G	6706037.55	6706037.65	6706037.79	0.0088	0.0074
Mercury	13648-06-29 18:28 G	6706070.12	6706070.27	6706070.42	0.0088	0.0036
Mercury	13648-09-25 20:52 G	6706158.21	6706158.37	6706158.52	0.0088	0.0028
Mercury	13648-12-22 23:02 G	6706246.30	6706246.46	6706246.62	0.0088	0.0021



Mercury	13649-03-21 01:26 G	6706334.40	6706334.56	6706334.72	0.0088	0.0012
Mercury	13649-06-17 03:50 G	6706422.49	6706422.66	6706422.82	0.0088	0.0005
Mercury	13649-09-13 06:00 G	6706510.59	6706510.75	6706510.92	0.0088	0.0004
Mercury	13649-12-10 08:24 G	6706598.69	6706598.85	6706599.02	0.0088	0.0012
Mercury	13650-03-08 10:33 G	6706686.79	6706686.94	6706687.11	0.0088	0.0020
Mercury	13650-06-04 12:57 G	6706774.89	6706775.04	6706775.21	0.0088	0.0028
Mercury	13650-08-31 15:21 G	6706863.00	6706863.14	6706863.30	0.0088	0.0036
Mercury	13650-11-27 17:45 G	6706951.11	6706951.24	6706951.39	0.0088	0.0044
Mercury	13651-02-23 20:24 G	6707039.22	6707039.35	6707039.48	0.0088	0.0052
Mercury	13651-05-22 22:33 G	6707127.33	6707127.44	6707127.57	0.0088	0.0061
Mercury	13651-08-19 00:57 G	6707215.45	6707215.54	6707215.65	0.0088	0.0069
Mercury	13651-11-15 03:36 G	6707303.58	6707303.65	6707303.73	0.0088	0.0077
Mercury	13652-02-11 05:45 G	6707391.72	6707391.74	6707391.79	0.0088	0.0086
Moon	13674-11-10 10:04 G	6715699.85	6715699.92	6715700.05	0.0088	0.0081
Earth	13674-11-10 12:57 G	6715699.99	6715700.04	6715700.15	0.0088	0.0084 *
Earth	13675-11-13 00:14 G	6716067.40	6716067.51	6716067.66	0.0088	0.0076
Moon	13675-11-13 02:38 G	6716067.53	6716067.61	6716067.75	0.0088	0.0080 *
Moon	13676-11-14 10:33 G	6716434.79	6716434.94	6716435.12	0.0088	0.0065
Earth	13676-11-14 11:45 G	6716434.84	6716434.99	6716435.16	0.0088	0.0068 *
Moon	13677-11-16 23:02 G	6716802.27	6716802.46	6716802.64	0.0088	0.0063
Earth	13677-11-16 22:33 G	6716802.28	6716802.44	6716802.65	0.0088	0.0061 *
Earth	13678-11-19 09:50 G	6717169.73	6717169.91	6717170.14	0.0088	0.0053
Moon	13678-11-19 11:02 G	6717169.77	6717169.96	6717170.18	0.0088	0.0049 *
Moon	13679-11-21 18:57 G	6717537.08	6717537.29	6717537.52	0.0088	0.0048
Earth	13679-11-21 21:21 G	6717537.19	6717537.39	6717537.64	0.0088	0.0045 *
Earth	13680-11-23 09:07 G	6717904.66	6717904.88	6717905.13	0.0088	0.0037
Moon	13680-11-23 12:28 G	6717904.78	6717905.02	6717905.26	0.0088	0.0033 *
Moon	13681-11-25 16:48 G	6718271.98	6718272.20	6718272.46	0.0088	0.0033
Earth	13681-11-25 20:24 G	6718272.13	6718272.35	6718272.62	0.0088	0.0029 *
Earth	13682-11-28 08:09 G	6718639.60	6718639.84	6718640.10	0.0088	0.0021

Moon	13682-11-28 11:45 G	6718639.74	6718639.99	6718640.26	0.0088	0.0017	*
Moon	13683-11-30 17:02 G	6719006.96	6719007.21	6719007.47	0.0088	0.0016	
Earth	13683-11-30 19:55 G	6719007.08	6719007.33	6719007.59	0.0088	0.0012	*
Earth	13684-12-02 07:40 G	6719374.56	6719374.82	6719375.08	0.0088	0.0004	
Moon	13684-12-02 10:04 G	6719374.66	6719374.92	6719375.19	0.0088	0.0002	*
Moon	13685-12-04 18:28 G	6719742.02	6719742.27	6719742.52	0.0088	0.0001	
Earth	13685-12-04 19:12 G	6719742.04	6719742.30	6719742.56	0.0088	0.0004	*
Moon	13686-12-07 06:28 G	6720109.51	6720109.77	6720110.05	0.0088	0.0016	
Earth	13686-12-07 06:43 G	6720109.53	6720109.78	6720110.04	0.0088	0.0012	*
Earth	13687-12-09 18:28 G	6720477.03	6720477.27	6720477.53	0.0088	0.0021	
Moon	13687-12-09 19:40 G	6720477.08	6720477.32	6720477.57	0.0088	0.0016	*
Moon	13688-12-11 03:36 G	6720844.41	6720844.65	6720844.91	0.0088	0.0033	
Earth	13688-12-11 06:28 G	6720844.53	6720844.77	6720845.02	0.0088	0.0029	*
Earth	13689-12-13 17:45 G	6721212.02	6721212.24	6721212.50	0.0088	0.0037	
Moon	13689-12-13 20:52 G	6721212.15	6721212.37	6721212.62	0.0088	0.0033	*
Moon	13690-12-16 02:24 G	6721579.40	6721579.60	6721579.83	0.0088	0.0050	
Earth	13690-12-16 05:45 G	6721579.54	6721579.74	6721579.99	0.0088	0.0045	*
Earth	13691-12-18 17:45 G	6721947.06	6721947.24	6721947.47	0.0088	0.0054	
Moon	13691-12-18 21:50 G	6721947.20	6721947.41	6721947.63	0.0088	0.0048	*
Moon	13692-12-20 03:07 G	6722314.48	6722314.63	6722314.82	0.0088	0.0066	
Earth	13692-12-20 06:00 G	6722314.59	6722314.75	6722314.96	0.0088	0.0061	*
Earth	13693-12-22 18:00 G	6722682.12	6722682.25	6722682.44	0.0088	0.0070	
Moon	13693-12-22 20:52 G	6722682.21	6722682.37	6722682.57	0.0088	0.0064	*
Moon	13694-12-25 05:31 G	6723049.66	6723049.73	6723049.85	0.0088	0.0081	
Earth	13694-12-25 06:43 G	6723049.66	6723049.78	6723049.92	0.0088	0.0077	*
Moon	13695-12-27 18:28 G	6723417.19	6723417.27	6723417.42	0.0088	0.0081	
Earth	13695-12-27 18:43 G	6723417.23	6723417.28	6723417.38	0.0088	0.0085	*
Mars	13706-07-06 09:21 G	6727259.59	6727259.89	6727260.20	0.0089	0.0005	
Mars	13708-05-30 12:00 G	6727953.91	6727954.00	6727954.17	0.0089	0.0080	
Venus	13726-03-19 04:04 G	6734455.65	6734455.67	6734455.69	0.0089	0.0089	

Venus	13726-10-30 17:16 G	6734681.08	6734681.22	6734681.36	0.0089	0.0069
Venus	13727-06-13 06:00 G	6734906.59	6734906.75	6734906.96	0.0089	0.0050
Venus	13728-01-24 19:55 G	6735132.12	6735132.33	6735132.54	0.0089	0.0029
Venus	13728-09-06 09:07 G	6735357.66	6735357.88	6735358.10	0.0089	0.0009
Venus	13729-04-19 22:19 G	6735583.22	6735583.43	6735583.65	0.0089	0.0012
Mercury	13729-10-23 23:45 G	6735770.47	6735770.49	6735770.53	0.0089	0.0087
Venus	13729-12-01 11:45 G	6735808.79	6735808.99	6735809.20	0.0089	0.0031
Mercury	13730-01-20 01:40 G	6735858.52	6735858.57	6735858.66	0.0089	0.0080
Mercury	13730-04-18 03:50 G	6735946.58	6735946.66	6735946.76	0.0089	0.0071
Venus	13730-07-15 00:57 G	6736034.37	6736034.54	6736034.73	0.0089	0.0052
Mercury	13730-07-15 06:00 G	6736034.65	6736034.75	6736034.86	0.0089	0.0063 *
Mercury	13730-10-11 07:55 G	6736122.72	6736122.83	6736122.96	0.0089	0.0056
Mercury	13731-01-07 10:04 G	6736210.80	6736210.92	6736211.06	0.0089	0.0047
Venus	13731-02-25 14:09 G	6736259.97	6736260.09	6736260.23	0.0089	0.0072
Mercury	13731-04-05 12:00 G	6736298.87	6736299.00	6736299.15	0.0089	0.0040
Mercury	13731-07-02 14:09 G	6736386.95	6736387.09	6736387.24	0.0089	0.0031
Mercury	13731-09-28 16:19 G	6736475.03	6736475.18	6736475.32	0.0089	0.0024
Mercury	13731-12-25 18:14 G	6736563.11	6736563.26	6736563.41	0.0089	0.0016
Mercury	13732-03-22 20:09 G	6736651.19	6736651.34	6736651.49	0.0089	0.0008
Mercury	13732-06-18 22:04 G	6736739.27	6736739.42	6736739.57	0.0089	0.0002
Mercury	13732-09-15 00:00 G	6736827.35	6736827.50	6736827.66	0.0089	0.0008
Mercury	13732-12-12 01:55 G	6736915.44	6736915.58	6736915.73	0.0089	0.0016
Mercury	13733-03-10 03:50 G	6737003.52	6737003.66	6737003.81	0.0089	0.0023
Mercury	13733-06-06 06:00 G	6737091.61	6737091.75	6737091.89	0.0089	0.0031
Mercury	13733-09-02 07:40 G	6737179.69	6737179.82	6737179.96	0.0089	0.0038
Mercury	13733-11-29 09:21 G	6737267.78	6737267.89	6737268.03	0.0089	0.0047
Mercury	13734-02-25 11:31 G	6737355.87	6737355.98	6737356.10	0.0089	0.0054
Mercury	13734-05-24 13:12 G	6737443.96	6737444.05	6737444.17	0.0089	0.0062
Mercury	13734-08-20 15:21 G	6737532.05	6737532.14	6737532.24	0.0089	0.0069
Mercury	13734-11-16 17:02 G	6737620.14	6737620.21	6737620.30	0.0089	0.0076

Mercury	13735-02-12 18:57 G	6737708.25	6737708.29	6737708.35	0.0089	0.0084
Earth	13756-05-14 00:00 G	6745469.46	6745469.50	6745469.59	0.0089	0.0087
Earth	13757-05-16 12:28 G	6745836.91	6745837.02	6745837.16	0.0089	0.0079
Moon	13757-05-16 15:50 G	6745837.04	6745837.16	6745837.32	0.0089	0.0076 *
Moon	13758-05-18 22:04 G	6746204.30	6746204.42	6746204.58	0.0089	0.0074
Earth	13758-05-19 00:57 G	6746204.40	6746204.54	6746204.71	0.0089	0.0071 *
Earth	13759-05-21 13:12 G	6746571.88	6746572.05	6746572.25	0.0089	0.0063
Moon	13759-05-21 15:50 G	6746571.97	6746572.16	6746572.36	0.0089	0.0059 *
Moon	13760-05-23 00:43 G	6746939.35	6746939.53	6746939.73	0.0089	0.0058
Earth	13760-05-23 01:12 G	6746939.36	6746939.55	6746939.77	0.0089	0.0055 *
Moon	13761-05-25 12:57 G	6747306.83	6747307.04	6747307.29	0.0089	0.0044
Earth	13761-05-25 13:12 G	6747306.85	6747307.05	6747307.29	0.0089	0.0047 *
Earth	13762-05-28 01:12 G	6747674.34	6747674.55	6747674.80	0.0089	0.0039
Moon	13762-05-28 02:52 G	6747674.40	6747674.62	6747674.84	0.0089	0.0042 *
Moon	13763-05-30 10:33 G	6748041.69	6748041.94	6748042.19	0.0089	0.0027
Earth	13763-05-30 13:12 G	6748041.82	6748042.05	6748042.30	0.0089	0.0030 *
Earth	13764-06-01 01:12 G	6748409.30	6748409.55	6748409.80	0.0089	0.0022
Moon	13764-06-01 04:04 G	6748409.44	6748409.67	6748409.92	0.0089	0.0025 *
Moon	13765-06-03 09:21 G	6748776.64	6748776.89	6748777.15	0.0089	0.0009
Earth	13765-06-03 12:57 G	6748776.79	6748777.04	6748777.30	0.0089	0.0014 *
Earth	13766-06-06 00:43 G	6749144.28	6749144.53	6749144.79	0.0089	0.0005
Moon	13766-06-06 04:19 G	6749144.42	6749144.68	6749144.94	0.0089	0.0009 *
Moon	13767-06-08 09:50 G	6749511.66	6749511.91	6749512.16	0.0089	0.0007
Earth	13767-06-08 12:43 G	6749511.77	6749512.03	6749512.29	0.0089	0.0003 *
Earth	13768-06-10 00:00 G	6749879.26	6749879.50	6749879.77	0.0089	0.0012
Moon	13768-06-10 02:38 G	6749879.35	6749879.61	6749879.87	0.0089	0.0008 *
Moon	13769-06-12 11:31 G	6750246.74	6750246.98	6750247.22	0.0089	0.0024
Earth	13769-06-12 11:45 G	6750246.75	6750246.99	6750247.25	0.0089	0.0021 *
Moon	13770-06-14 23:31 G	6750614.23	6750614.48	6750614.74	0.0089	0.0025
Earth	13770-06-14 23:31 G	6750614.25	6750614.48	6750614.73	0.0089	0.0029 *

Earth	13771-06-17 11:02 G	6750981.74	6750981.96	6750982.20	0.0089	0.0036
Moon	13771-06-17 12:14 G	6750981.81	6750982.01	6750982.25	0.0089	0.0041 *
Moon	13772-06-18 19:55 G	6751349.10	6751349.33	6751349.56	0.0089	0.0041
Earth	13772-06-18 22:33 G	6751349.23	6751349.44	6751349.67	0.0089	0.0045 *
Earth	13773-06-21 09:50 G	6751716.71	6751716.91	6751717.13	0.0089	0.0053
Moon	13773-06-21 12:28 G	6751716.85	6751717.02	6751717.24	0.0089	0.0057 *
Moon	13774-06-23 17:02 G	6752084.04	6752084.21	6752084.44	0.0089	0.0057
Earth	13774-06-23 21:07 G	6752084.21	6752084.38	6752084.58	0.0089	0.0061 *
Earth	13775-06-26 08:09 G	6752451.69	6752451.84	6752452.02	0.0089	0.0068
Moon	13775-06-26 11:31 G	6752451.85	6752451.98	6752452.14	0.0089	0.0073 *
Moon	13776-06-27 16:19 G	6752819.06	6752819.18	6752819.35	0.0089	0.0072
Earth	13776-06-27 19:12 G	6752819.19	6752819.30	6752819.45	0.0089	0.0076 *
Earth	13777-06-30 06:28 G	6753186.70	6753186.77	6753186.87	0.0089	0.0083
Moon	13777-06-30 08:09 G	6753186.83	6753186.84	6753186.91	0.0089	0.0088 *
Moon	13778-07-02 17:02 G	6753554.18	6753554.21	6753554.28	0.0089	0.0087
Mars	13786-04-25 23:45 G	6756408.32	6756408.49	6756408.67	0.0089	0.0074
Mars	13788-03-21 10:48 G	6757103.63	6757103.95	6757104.27	0.0089	0.0018
Venus	13807-09-23 09:36 G	6764227.89	6764227.90	6764227.95	0.0088	0.0087
Venus	13808-05-05 22:19 G	6764453.31	6764453.43	6764453.59	0.0088	0.0068
Venus	13808-12-17 11:31 G	6764678.80	6764678.98	6764679.16	0.0088	0.0048
Venus	13809-07-31 00:14 G	6764904.31	6764904.51	6764904.72	0.0088	0.0029
Venus	13810-03-13 12:57 G	6765129.83	6765130.04	6765130.26	0.0088	0.0010
Venus	13810-10-25 01:40 G	6765355.35	6765355.57	6765355.79	0.0088	0.0009
Venus	13811-06-07 14:09 G	6765580.90	6765581.09	6765581.31	0.0088	0.0029
Mercury	13811-07-21 02:09 G	6765624.57	6765624.59	6765624.62	0.0088	0.0087
Mercury	13811-10-17 04:04 G	6765712.62	6765712.67	6765712.76	0.0088	0.0079
Mercury	13812-01-13 06:28 G	6765800.69	6765800.77	6765800.88	0.0088	0.0071
Venus	13812-01-19 02:52 G	6765806.45	6765806.62	6765806.82	0.0088	0.0048
Mercury	13812-04-10 08:52 G	6765888.76	6765888.87	6765888.99	0.0088	0.0063
Mercury	13812-07-07 11:16 G	6765976.84	6765976.97	6765977.09	0.0088	0.0055

Venus	13812-08-31 15:21 G	6766032.02	6766032.14	6766032.30	0.0088	0.0067
Mercury	13812-10-03 13:12 G	6766064.93	6766065.05	6766065.20	0.0088	0.0048
Mercury	13812-12-30 15:36 G	6766153.01	6766153.15	6766153.30	0.0088	0.0040
Mercury	13813-03-28 18:00 G	6766241.10	6766241.25	6766241.40	0.0088	0.0032
Venus	13813-04-14 04:04 G	6766257.64	6766257.67	6766257.73	0.0088	0.0086
Mercury	13813-06-24 20:09 G	6766329.19	6766329.34	6766329.50	0.0088	0.0024
Mercury	13813-09-20 22:33 G	6766417.28	6766417.44	6766417.60	0.0088	0.0016
Mercury	13813-12-18 00:57 G	6766505.38	6766505.54	6766505.70	0.0088	0.0008
Mercury	13814-03-16 03:21 G	6766593.47	6766593.64	6766593.80	0.0088	0.0002
Mercury	13814-06-12 05:31 G	6766681.57	6766681.73	6766681.90	0.0088	0.0008
Mercury	13814-09-08 07:55 G	6766769.67	6766769.83	6766769.99	0.0088	0.0016
Mercury	13814-12-05 10:19 G	6766857.77	6766857.93	6766858.09	0.0088	0.0024
Mercury	13815-03-03 12:28 G	6766945.87	6766946.02	6766946.18	0.0088	0.0032
Mercury	13815-05-30 15:07 G	6767033.98	6767034.13	6767034.27	0.0088	0.0040
Mercury	13815-08-26 17:02 G	6767122.09	6767122.21	6767122.36	0.0088	0.0049
Mercury	13815-11-22 19:26 G	6767210.20	6767210.31	6767210.45	0.0088	0.0057
Mercury	13816-02-18 21:50 G	6767298.31	6767298.41	6767298.54	0.0088	0.0065
Mercury	13816-05-17 00:28 G	6767386.44	6767386.52	6767386.62	0.0088	0.0073
Mercury	13816-08-13 02:38 G	6767474.57	6767474.61	6767474.69	0.0088	0.0082
Earth	13838-11-12 00:57 G	6775600.48	6775600.54	6775600.62	0.0088	0.0084
Moon	13838-11-12 02:09 G	6775600.52	6775600.59	6775600.72	0.0088	0.0081 *
Moon	13839-11-14 10:48 G	6775967.87	6775967.95	6775968.08	0.0088	0.0080
Earth	13839-11-14 11:45 G	6775967.89	6775967.99	6775968.14	0.0088	0.0077 *
Moon	13840-11-15 22:19 G	6776335.27	6776335.43	6776335.62	0.0088	0.0066
Earth	13840-11-15 22:48 G	6776335.32	6776335.45	6776335.63	0.0088	0.0070 *
Earth	13841-11-18 09:50 G	6776702.75	6776702.91	6776703.11	0.0088	0.0062
Moon	13841-11-18 11:31 G	6776702.84	6776702.98	6776703.18	0.0088	0.0066 *
Moon	13842-11-20 18:57 G	6777070.08	6777070.29	6777070.50	0.0088	0.0051
Earth	13842-11-20 20:52 G	6777070.20	6777070.37	6777070.60	0.0088	0.0055 *
Earth	13843-11-23 08:24 G	6777437.65	6777437.85	6777438.09	0.0088	0.0047

Moon	13843-11-23 12:00 G	6777437.81	6777438.00	6777438.23	0.0088	0.0050	*
Moon	13844-11-24 16:19 G	6777804.96	6777805.18	6777805.43	0.0088	0.0036	
Earth	13844-11-24 19:55 G	6777805.11	6777805.33	6777805.57	0.0088	0.0039	*
Earth	13845-11-27 07:26 G	6778172.57	6778172.81	6778173.06	0.0088	0.0031	
Moon	13845-11-27 11:02 G	6778172.72	6778172.96	6778173.20	0.0088	0.0033	*
Moon	13846-11-29 16:19 G	6778539.94	6778540.18	6778540.43	0.0088	0.0020	
Earth	13846-11-29 18:57 G	6778540.05	6778540.29	6778540.55	0.0088	0.0023	*
Earth	13847-12-02 06:43 G	6778907.53	6778907.78	6778908.04	0.0088	0.0015	
Moon	13847-12-02 08:09 G	6778907.58	6778907.84	6778908.11	0.0088	0.0018	*
Moon	13848-12-03 17:31 G	6779274.98	6779275.23	6779275.48	0.0088	0.0005	
Earth	13848-12-03 18:14 G	6779275.01	6779275.26	6779275.52	0.0088	0.0008	*
Moon	13849-12-06 05:02 G	6779642.44	6779642.71	6779642.98	0.0088	0.0002	
Earth	13849-12-06 05:45 G	6779642.48	6779642.74	6779643.00	0.0088	0.0001	*
Earth	13850-12-08 17:31 G	6780009.97	6780010.23	6780010.49	0.0088	0.0008	
Moon	13850-12-08 19:26 G	6780010.06	6780010.31	6780010.56	0.0088	0.0011	*
Moon	13851-12-11 02:24 G	6780377.35	6780377.60	6780377.87	0.0088	0.0015	
Earth	13851-12-11 05:16 G	6780377.46	6780377.72	6780377.97	0.0088	0.0017	*
Earth	13852-12-12 16:48 G	6780744.95	6780745.20	6780745.45	0.0088	0.0024	
Moon	13852-12-12 20:09 G	6780745.11	6780745.34	6780745.59	0.0088	0.0027	*
Moon	13853-12-15 00:43 G	6781112.30	6781112.53	6781112.79	0.0088	0.0031	
Earth	13853-12-15 04:33 G	6781112.45	6781112.69	6781112.94	0.0088	0.0032	*
Earth	13854-12-17 16:04 G	6781479.95	6781480.17	6781480.42	0.0088	0.0041	
Moon	13854-12-17 19:55 G	6781480.10	6781480.33	6781480.56	0.0088	0.0042	*
Moon	13855-12-20 01:26 G	6781847.36	6781847.56	6781847.79	0.0088	0.0046	
Earth	13855-12-20 04:04 G	6781847.47	6781847.67	6781847.90	0.0088	0.0049	*
Earth	13856-12-21 15:50 G	6782214.99	6782215.16	6782215.39	0.0088	0.0057	
Moon	13856-12-21 17:45 G	6782215.05	6782215.24	6782215.46	0.0088	0.0058	*
Moon	13857-12-24 03:07 G	6782582.48	6782582.63	6782582.83	0.0088	0.0063	
Earth	13857-12-24 03:50 G	6782582.51	6782582.66	6782582.87	0.0088	0.0065	*
Moon	13858-12-26 15:21 G	6782950.02	6782950.14	6782950.32	0.0088	0.0073	

Earth	13858-12-26 16:19 G	6782950.05	6782950.18	6782950.35	0.0088	0.0072 *
Earth	13859-12-29 04:33 G	6783317.60	6783317.69	6783317.83	0.0088	0.0079
Moon	13859-12-29 06:43 G	6783317.68	6783317.78	6783317.91	0.0088	0.0078 *
Moon	13860-12-30 14:09 G	6783685.08	6783685.09	6783685.15	0.0088	0.0088
Earth	13860-12-30 17:02 G	6783685.18	6783685.21	6783685.28	0.0088	0.0087
Mars	13870-02-19 14:24 G	6787022.85	6787023.10	6787023.40	0.0089	0.0040
Mars	13872-01-14 18:57 G	6787717.06	6787717.29	6787717.57	0.0089	0.0046
Venus	13891-02-02 04:19 G	6794675.58	6794675.68	6794675.81	0.0089	0.0076
Venus	13891-09-15 17:31 G	6794901.08	6794901.23	6794901.42	0.0089	0.0057
Venus	13892-04-28 06:57 G	6795126.60	6795126.79	6795127.00	0.0089	0.0036
Venus	13892-12-09 20:24 G	6795352.14	6795352.35	6795352.57	0.0089	0.0016
Venus	13893-07-23 09:50 G	6795577.69	6795577.91	6795578.13	0.0089	0.0004
Venus	13894-03-05 22:48 G	6795803.25	6795803.45	6795803.67	0.0089	0.0024
Mercury	13894-07-21 23:16 G	6795941.43	6795941.47	6795941.54	0.0089	0.0084
Venus	13894-10-17 11:45 G	6796028.82	6796028.99	6796029.20	0.0089	0.0045
Mercury	13894-10-18 01:26 G	6796029.49	6796029.56	6796029.65	0.0089	0.0075
Mercury	13895-01-14 03:21 G	6796117.56	6796117.64	6796117.76	0.0089	0.0068
Mercury	13895-04-12 05:31 G	6796205.63	6796205.73	6796205.86	0.0089	0.0060
Venus	13895-05-31 00:57 G	6796254.41	6796254.54	6796254.72	0.0089	0.0065
Mercury	13895-07-09 07:40 G	6796293.70	6796293.82	6796293.95	0.0089	0.0051
Mercury	13895-10-05 09:36 G	6796381.78	6796381.90	6796382.05	0.0089	0.0044
Mercury	13896-01-01 11:45 G	6796469.86	6796469.99	6796470.14	0.0089	0.0035
Venus	13896-01-11 14:24 G	6796480.05	6796480.10	6796480.20	0.0089	0.0085
Mercury	13896-03-29 13:55 G	6796557.93	6796558.08	6796558.22	0.0089	0.0027
Mercury	13896-06-25 15:50 G	6796646.01	6796646.16	6796646.31	0.0089	0.0020
Mercury	13896-09-21 17:45 G	6796734.09	6796734.24	6796734.40	0.0089	0.0012
Mercury	13896-12-18 19:55 G	6796822.18	6796822.33	6796822.48	0.0089	0.0004
Mercury	13897-03-16 21:50 G	6796910.26	6796910.41	6796910.56	0.0089	0.0004
Mercury	13897-06-12 23:45 G	6796998.34	6796998.49	6796998.64	0.0089	0.0012
Mercury	13897-09-09 01:40 G	6797086.43	6797086.57	6797086.72	0.0089	0.0020



Mercury	13897-12-06 03:36 G	6797174.51	6797174.65	6797174.80	0.0089	0.0027
Mercury	13898-03-04 05:16 G	6797262.60	6797262.72	6797262.87	0.0089	0.0036
Mercury	13898-05-31 07:26 G	6797350.68	6797350.81	6797350.95	0.0089	0.0043
Mercury	13898-08-27 09:21 G	6797438.77	6797438.89	6797439.02	0.0089	0.0050
Mercury	13898-11-23 11:16 G	6797526.86	6797526.97	6797527.09	0.0089	0.0058
Mercury	13899-02-19 12:57 G	6797614.95	6797615.04	6797615.16	0.0089	0.0066
Mercury	13899-05-18 15:07 G	6797703.05	6797703.13	6797703.22	0.0089	0.0073
Mercury	13899-08-14 16:48 G	6797791.15	6797791.20	6797791.28	0.0089	0.0080
Mercury	13899-11-10 18:43 G	6797879.26	6797879.28	6797879.32	0.0089	0.0088
Earth	13920-05-15 09:36 G	6805369.87	6805369.90	6805369.97	0.0089	0.0088
Moon	13921-05-17 19:55 G	6805737.21	6805737.33	6805737.47	0.0089	0.0076
Earth	13921-05-17 22:33 G	6805737.33	6805737.44	6805737.55	0.0089	0.0080 *
Earth	13922-05-20 10:19 G	6806104.81	6806104.93	6806105.11	0.0089	0.0073
Moon	13922-05-20 12:00 G	6806104.88	6806105.00	6806105.16	0.0089	0.0076 *
Moon	13923-05-22 22:04 G	6806472.26	6806472.42	6806472.62	0.0089	0.0062
Earth	13923-05-22 22:48 G	6806472.29	6806472.45	6806472.65	0.0089	0.0065 *
Moon	13924-05-24 09:50 G	6806839.74	6806839.91	6806840.13	0.0089	0.0061
Earth	13924-05-24 11:02 G	6806839.78	6806839.96	6806840.18	0.0089	0.0057 *
Earth	13925-05-26 23:31 G	6807207.27	6807207.48	6807207.70	0.0089	0.0049
Moon	13925-05-27 01:12 G	6807207.36	6807207.55	6807207.79	0.0089	0.0046 *
Moon	13926-05-29 08:52 G	6807574.65	6807574.87	6807575.11	0.0089	0.0044
Earth	13926-05-29 11:31 G	6807574.76	6807574.98	6807575.22	0.0089	0.0041 *
Earth	13927-05-31 23:31 G	6807942.25	6807942.48	6807942.73	0.0089	0.0033
Moon	13927-06-01 03:21 G	6807942.40	6807942.64	6807942.88	0.0089	0.0029 *
Moon	13928-06-02 08:09 G	6808309.60	6808309.84	6808310.09	0.0089	0.0028
Earth	13928-06-02 11:31 G	6808309.74	6808309.98	6808310.23	0.0089	0.0024 *
Earth	13929-06-04 23:16 G	6808677.22	6808677.47	6808677.73	0.0089	0.0017
Moon	13929-06-05 02:52 G	6808677.37	6808677.62	6808677.88	0.0089	0.0014 *
Moon	13930-06-07 08:52 G	6809044.62	6809044.87	6809045.12	0.0089	0.0012
Earth	13930-06-07 11:16 G	6809044.72	6809044.97	6809045.23	0.0089	0.0008 *

Earth	13931-06-09 23:02 G	6809412.20	6809412.46	6809412.71	0.0089	0.0001
Moon	13931-06-10 00:28 G	6809412.25	6809412.52	6809412.78	0.0089	0.0003 *
Moon	13932-06-11 10:04 G	6809779.67	6809779.92	6809780.17	0.0089	0.0006
Earth	13932-06-11 10:33 G	6809779.69	6809779.94	6809780.20	0.0089	0.0008 *
Moon	13933-06-13 21:07 G	6810147.13	6810147.38	6810147.65	0.0089	0.0019
Earth	13933-06-13 22:19 G	6810147.19	6810147.43	6810147.69	0.0089	0.0016 *
Earth	13934-06-16 09:50 G	6810514.68	6810514.91	6810515.17	0.0089	0.0025
Moon	13934-06-16 12:00 G	6810514.76	6810515.00	6810515.25	0.0089	0.0022 *
Moon	13935-06-18 18:57 G	6810882.05	6810882.29	6810882.54	0.0089	0.0035
Earth	13935-06-18 21:36 G	6810882.17	6810882.40	6810882.65	0.0089	0.0032 *
Earth	13936-06-20 09:07 G	6811249.66	6811249.88	6811250.12	0.0089	0.0040
Moon	13936-06-20 12:43 G	6811249.81	6811250.03	6811250.27	0.0089	0.0038 *
Moon	13937-06-22 17:31 G	6811617.03	6811617.23	6811617.45	0.0089	0.0051
Earth	13937-06-22 20:38 G	6811617.16	6811617.36	6811617.59	0.0089	0.0048 *
Earth	13938-06-25 07:55 G	6811984.65	6811984.83	6811985.05	0.0089	0.0056
Moon	13938-06-25 11:31 G	6811984.79	6811984.98	6811985.20	0.0089	0.0054 *
Moon	13939-06-27 16:48 G	6812352.06	6812352.20	6812352.39	0.0089	0.0067
Earth	13939-06-27 19:26 G	6812352.14	6812352.31	6812352.50	0.0089	0.0063 *
Earth	13940-06-29 06:14 G	6812719.63	6812719.76	6812719.94	0.0089	0.0072
Moon	13940-06-29 07:40 G	6812719.68	6812719.82	6812720.01	0.0089	0.0070 *
Moon	13941-07-01 17:02 G	6813087.13	6813087.21	6813087.34	0.0089	0.0081
Earth	13941-07-01 17:45 G	6813087.14	6813087.24	6813087.38	0.0089	0.0078 *
Moon	13942-07-04 03:21 G	6813454.57	6813454.64	6813454.75	0.0089	0.0083
Earth	13942-07-04 04:19 G	6813454.65	6813454.68	6813454.78	0.0089	0.0086 *
Mars	13951-11-05 15:36 G	6816865.84	6816866.15	6816866.47	0.0089	0.0020
Mars	13953-10-01 02:52 G	6817561.46	6817561.62	6817561.83	0.0089	0.0073
Venus	13972-08-08 09:50 G	6824447.81	6824447.91	6824448.04	0.0088	0.0075
Venus	13973-03-21 22:33 G	6824673.29	6824673.44	6824673.63	0.0088	0.0056
Venus	13973-11-02 11:16 G	6824898.79	6824898.97	6824899.19	0.0088	0.0037
Venus	13974-06-16 00:28 G	6825124.31	6825124.52	6825124.74	0.0088	0.0017

Venus	13975-01-27 13:12 G	6825349.84	6825350.05	6825350.28	0.0088	0.0003
Venus	13975-09-10 01:55 G	6825575.37	6825575.58	6825575.80	0.0088	0.0021
Mercury	13976-04-17 01:40 G	6825795.52	6825795.57	6825795.63	0.0088	0.0082
Venus	13976-04-22 14:38 G	6825800.92	6825801.11	6825801.31	0.0088	0.0041
Mercury	13976-07-14 03:36 G	6825883.59	6825883.65	6825883.75	0.0088	0.0075
Mercury	13976-10-10 06:00 G	6825971.66	6825971.75	6825971.86	0.0088	0.0067
Venus	13976-12-04 02:52 G	6826026.48	6826026.62	6826026.80	0.0088	0.0060
Mercury	13977-01-06 08:09 G	6826059.74	6826059.84	6826059.97	0.0088	0.0060
Mercury	13977-04-04 10:33 G	6826147.82	6826147.94	6826148.08	0.0088	0.0051
Mercury	13977-07-01 12:57 G	6826235.90	6826236.04	6826236.18	0.0088	0.0043
Venus	13977-07-17 15:50 G	6826252.08	6826252.16	6826252.27	0.0088	0.0079
Mercury	13977-09-27 15:07 G	6826323.99	6826324.13	6826324.29	0.0088	0.0036
Mercury	13977-12-24 17:16 G	6826412.08	6826412.22	6826412.39	0.0088	0.0028
Mercury	13978-03-22 19:40 G	6826500.17	6826500.32	6826500.49	0.0088	0.0020
Mercury	13978-06-18 22:04 G	6826588.26	6826588.42	6826588.59	0.0088	0.0012
Mercury	13978-09-15 00:28 G	6826676.36	6826676.52	6826676.68	0.0088	0.0004
Mercury	13978-12-12 02:38 G	6826764.45	6826764.61	6826764.78	0.0088	0.0005
Mercury	13979-03-10 05:02 G	6826852.55	6826852.71	6826852.88	0.0088	0.0012
Mercury	13979-06-06 07:26 G	6826940.65	6826940.81	6826940.97	0.0088	0.0020
Mercury	13979-09-02 09:50 G	6827028.75	6827028.91	6827029.06	0.0088	0.0028
Mercury	13979-11-29 11:45 G	6827116.86	6827116.99	6827117.16	0.0088	0.0037
Mercury	13980-02-25 14:09 G	6827204.96	6827205.09	6827205.25	0.0088	0.0045
Mercury	13980-05-23 16:33 G	6827293.07	6827293.19	6827293.34	0.0088	0.0053
Mercury	13980-08-19 19:12 G	6827381.19	6827381.30	6827381.42	0.0088	0.0061
Mercury	13980-11-15 21:36 G	6827469.30	6827469.40	6827469.50	0.0088	0.0069
Mercury	13981-02-11 23:45 G	6827557.43	6827557.49	6827557.58	0.0088	0.0078
Mercury	13981-05-11 02:09 G	6827645.57	6827645.59	6827645.64	0.0088	0.0086

# 15TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 15th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	14002-11-12 11:31	G	6835500.94	6835500.98	6835501.07	0.0088	0.0085	
Moon	14002-11-12 12:00	G	6835500.98	6835501.00	6835501.04	0.0088	0.0087	*
Moon	14003-11-14 22:04	G	6835868.29	6835868.42	6835868.56	0.0088	0.0075	
Earth	14003-11-14 22:33	G	6835868.35	6835868.44	6835868.58	0.0088	0.0078	*
Earth	14004-11-16 09:21	G	6836235.77	6836235.89	6836236.07	0.0088	0.0071	
Moon	14004-11-16 11:31	G	6836235.87	6836235.98	6836236.15	0.0088	0.0074	*
Moon	14005-11-18 17:45	G	6836603.06	6836603.24	6836603.43	0.0088	0.0061	
Earth	14005-11-18 21:21	G	6836603.21	6836603.39	6836603.56	0.0088	0.0063	*
Earth	14006-11-21 07:55	G	6836970.65	6836970.83	6836971.05	0.0088	0.0056	
Moon	14006-11-21 11:16	G	6836970.80	6836970.97	6836971.18	0.0088	0.0059	*
Moon	14007-11-23 15:50	G	6837337.94	6837338.16	6837338.38	0.0088	0.0045	
Earth	14007-11-23 18:57	G	6837338.10	6837338.29	6837338.53	0.0088	0.0049	*
Earth	14008-11-25 06:28	G	6837705.55	6837705.77	6837706.01	0.0088	0.0041	
Moon	14008-11-25 09:21	G	6837705.68	6837705.89	6837706.14	0.0088	0.0044	*
Moon	14009-11-27 15:36	G	6838072.92	6838073.15	6838073.39	0.0088	0.0030	
Earth	14009-11-27 18:14	G	6838073.02	6838073.26	6838073.50	0.0088	0.0033	*
Earth	14010-11-30 05:16	G	6838440.49	6838440.72	6838440.98	0.0088	0.0026	
Moon	14010-11-30 06:43	G	6838440.54	6838440.78	6838441.05	0.0088	0.0029	*
Earth	14011-12-02 17:02	G	6838807.96	6838808.21	6838808.47	0.0088	0.0018	
Moon	14011-12-02 17:31	G	6838807.98	6838808.23	6838808.48	0.0088	0.0015	*
Moon	14012-12-04 03:36	G	6839175.38	6839175.65	6839175.91	0.0088	0.0013	

Earth	14012-12-04 04:33 G	6839175.44	6839175.69	6839175.95	0.0088	0.0010	*
Earth	14013-12-06 16:19 G	6839542.92	6839543.18	6839543.44	0.0088	0.0003	
Moon	14013-12-06 18:43 G	6839543.02	6839543.28	6839543.53	0.0088	0.0001	*
Moon	14014-12-09 00:43 G	6839910.27	6839910.53	6839910.79	0.0088	0.0002	
Earth	14014-12-09 04:04 G	6839910.41	6839910.67	6839910.93	0.0088	0.0005	*
Earth	14015-12-11 15:21 G	6840277.89	6840278.14	6840278.41	0.0088	0.0014	
Moon	14015-12-11 18:43 G	6840278.04	6840278.28	6840278.55	0.0088	0.0017	*
Moon	14016-12-12 23:31 G	6840645.23	6840645.48	6840645.74	0.0088	0.0017	
Earth	14016-12-13 03:07 G	6840645.39	6840645.63	6840645.89	0.0088	0.0021	*
Earth	14017-12-15 14:52 G	6841012.88	6841013.12	6841013.37	0.0088	0.0029	
Moon	14017-12-15 17:45 G	6841013.00	6841013.24	6841013.50	0.0088	0.0032	*
Moon	14018-12-18 00:28 G	6841380.29	6841380.52	6841380.76	0.0088	0.0032	
Earth	14018-12-18 02:38 G	6841380.39	6841380.61	6841380.86	0.0088	0.0036	*
Earth	14019-12-20 14:09 G	6841747.89	6841748.09	6841748.34	0.0088	0.0044	
Moon	14019-12-20 16:04 G	6841747.95	6841748.17	6841748.40	0.0088	0.0048	*
Earth	14020-12-22 02:09 G	6842115.39	6842115.59	6842115.82	0.0088	0.0052	
Moon	14020-12-22 02:24 G	6842115.41	6842115.60	6842115.83	0.0088	0.0048	*
Moon	14021-12-24 13:12 G	6842482.87	6842483.05	6842483.25	0.0088	0.0063	
Earth	14021-12-24 13:55 G	6842482.91	6842483.08	6842483.30	0.0088	0.0059	*
Earth	14022-12-27 02:09 G	6842850.44	6842850.59	6842850.78	0.0088	0.0067	
Moon	14022-12-27 04:33 G	6842850.53	6842850.69	6842850.89	0.0088	0.0063	*
Moon	14023-12-29 11:02 G	6843217.85	6843217.96	6843218.10	0.0088	0.0078	
Earth	14023-12-29 14:38 G	6843217.98	6843218.11	6843218.26	0.0088	0.0074	*
Earth	14024-12-31 02:24 G	6843585.52	6843585.60	6843585.72	0.0088	0.0081	
Moon	14024-12-31 06:14 G	6843585.64	6843585.76	6843585.89	0.0088	0.0077	*
Earth	14026-01-02 15:07 G	6843953.13	6843953.13	6843953.15	0.0088	0.0088	
Mars	14033-10-05 18:28 G	6846786.14	6846786.27	6846786.46	0.0089	0.0075	
Mars	14035-08-31 00:28 G	6847480.23	6847480.52	6847480.83	0.0089	0.0011	
Jupiter	14050-11-07 09:07 G	6853027.80	6853027.88	6853028.07	0.0089	0.0087	
Venus	14055-05-07 15:21 G	6854670.10	6854670.14	6854670.24	0.0089	0.0085	

Venus	14055-12-19 04:48 G	6854895.57	6854895.70	6854895.88	0.0089	0.0065
Venus	14056-07-31 18:14 G	6855121.09	6855121.26	6855121.47	0.0089	0.0044
Venus	14057-03-14 07:40 G	6855346.61	6855346.82	6855347.04	0.0089	0.0024
Venus	14057-10-25 20:52 G	6855572.16	6855572.37	6855572.60	0.0089	0.0004
Venus	14058-06-08 10:04 G	6855797.71	6855797.92	6855798.14	0.0089	0.0016
Venus	14059-01-19 23:16 G	6856023.28	6856023.47	6856023.68	0.0089	0.0037
Mercury	14059-01-20 20:52 G	6856024.35	6856024.37	6856024.42	0.0089	0.0087
Mercury	14059-04-18 23:02 G	6856112.40	6856112.46	6856112.54	0.0089	0.0079
Mercury	14059-07-16 00:57 G	6856200.47	6856200.54	6856200.65	0.0089	0.0072
Venus	14059-09-02 12:28 G	6856248.87	6856249.02	6856249.21	0.0089	0.0057
Mercury	14059-10-12 03:07 G	6856288.54	6856288.63	6856288.75	0.0089	0.0063
Mercury	14060-01-08 05:16 G	6856376.61	6856376.72	6856376.85	0.0089	0.0055
Mercury	14060-04-05 07:12 G	6856464.68	6856464.80	6856464.94	0.0089	0.0048
Venus	14060-04-15 01:40 G	6856474.48	6856474.57	6856474.70	0.0089	0.0077
Mercury	14060-07-02 09:21 G	6856552.76	6856552.89	6856553.03	0.0089	0.0039
Mercury	14060-09-28 11:31 G	6856640.84	6856640.98	6856641.12	0.0089	0.0031
Mercury	14060-12-25 13:26 G	6856728.92	6856729.06	6856729.21	0.0089	0.0024
Mercury	14061-03-23 15:36 G	6856817.00	6856817.15	6856817.30	0.0089	0.0016
Mercury	14061-06-19 17:31 G	6856905.08	6856905.23	6856905.38	0.0089	0.0008
Mercury	14061-09-15 19:26 G	6856993.16	6856993.31	6856993.47	0.0089	0.0002
Mercury	14061-12-12 21:21 G	6857081.24	6857081.39	6857081.55	0.0089	0.0008
Mercury	14062-03-10 23:31 G	6857169.33	6857169.48	6857169.63	0.0089	0.0016
Mercury	14062-06-07 01:12 G	6857257.41	6857257.55	6857257.70	0.0089	0.0024
Mercury	14062-09-03 03:07 G	6857345.50	6857345.63	6857345.78	0.0089	0.0032
Mercury	14062-11-30 05:16 G	6857433.59	6857433.72	6857433.86	0.0089	0.0039
Mercury	14063-02-26 06:57 G	6857521.67	6857521.79	6857521.93	0.0089	0.0047
Mercury	14063-05-25 08:52 G	6857609.76	6857609.87	6857610.00	0.0089	0.0054
Mercury	14063-08-21 10:48 G	6857697.85	6857697.95	6857698.07	0.0089	0.0062
Mercury	14063-11-17 12:43 G	6857785.95	6857786.03	6857786.13	0.0089	0.0069
Mercury	14064-02-13 14:38 G	6857874.04	6857874.11	6857874.19	0.0089	0.0077

Mercury	14064-05-11 16:19 G	6857962.15	6857962.18	6857962.25	0.0089	0.0085
Moon	14084-05-14 17:16 G	6865270.18	6865270.22	6865270.31	0.0089	0.0087
Earth	14084-05-14 19:12 G	6865270.29	6865270.30	6865270.37	0.0089	0.0089 *
Earth	14085-05-17 08:09 G	6865637.74	6865637.84	6865637.96	0.0089	0.0081
Moon	14085-05-17 08:52 G	6865637.79	6865637.87	6865637.99	0.0089	0.0083 *
Earth	14086-05-19 20:09 G	6866005.22	6866005.34	6866005.51	0.0089	0.0074
Moon	14086-05-19 20:38 G	6866005.24	6866005.36	6866005.53	0.0089	0.0073 *
Moon	14087-05-22 07:26 G	6866372.65	6866372.81	6866372.99	0.0089	0.0068
Earth	14087-05-22 08:52 G	6866372.70	6866372.87	6866373.05	0.0089	0.0066 *
Earth	14088-05-23 20:38 G	6866740.19	6866740.36	6866740.58	0.0089	0.0059
Moon	14088-05-23 23:45 G	6866740.30	6866740.49	6866740.69	0.0089	0.0056 *
Moon	14089-05-26 05:45 G	6867107.55	6867107.74	6867107.97	0.0089	0.0053
Earth	14089-05-26 09:21 G	6867107.69	6867107.89	6867108.12	0.0089	0.0051 *
Earth	14090-05-28 21:36 G	6867475.19	6867475.40	6867475.64	0.0089	0.0043
Moon	14090-05-29 01:12 G	6867475.33	6867475.55	6867475.78	0.0089	0.0040 *
Moon	14091-05-31 06:00 G	6867842.53	6867842.75	6867842.99	0.0089	0.0038
Earth	14091-05-31 09:50 G	6867842.68	6867842.91	6867843.15	0.0089	0.0035 *
Earth	14092-06-01 21:36 G	6868210.17	6868210.40	6868210.66	0.0089	0.0027
Moon	14092-06-02 00:28 G	6868210.28	6868210.52	6868210.78	0.0089	0.0025 *
Moon	14093-06-04 07:26 G	6868577.58	6868577.81	6868578.06	0.0089	0.0022
Earth	14093-06-04 09:36 G	6868577.66	6868577.90	6868578.16	0.0089	0.0020 *
Earth	14094-06-06 21:21 G	6868945.14	6868945.39	6868945.65	0.0089	0.0012
Moon	14094-06-06 22:33 G	6868945.18	6868945.44	6868945.71	0.0089	0.0008 *
Earth	14095-06-09 09:21 G	6869312.63	6869312.89	6869313.14	0.0089	0.0004
Moon	14095-06-09 09:36 G	6869312.66	6869312.90	6869313.15	0.0089	0.0007 *
Moon	14096-06-10 19:40 G	6869680.06	6869680.32	6869680.59	0.0089	0.0008
Earth	14096-06-10 21:07 G	6869680.12	6869680.38	6869680.63	0.0089	0.0005 *
Earth	14097-06-13 08:24 G	6870047.60	6870047.85	6870048.11	0.0089	0.0013
Moon	14097-06-13 11:02 G	6870047.72	6870047.96	6870048.21	0.0089	0.0009 *
Moon	14098-06-15 16:33 G	6870414.96	6870415.19	6870415.46	0.0089	0.0024

Earth	14098-06-15 20:09 G	6870415.10	6870415.34	6870415.60	0.0089	0.0020 *
Earth	14099-06-18 07:26 G	6870782.58	6870782.81	6870783.07	0.0089	0.0028
Moon	14099-06-18 11:02 G	6870782.72	6870782.96	6870783.21	0.0089	0.0024 *
Moon	14100-06-20 15:36 G	6871149.93	6871150.15	6871150.39	0.0089	0.0039
Earth	14100-06-20 19:26 G	6871150.08	6871150.31	6871150.55	0.0089	0.0036 *
Earth	14101-06-23 06:43 G	6871517.57	6871517.78	6871518.02	0.0089	0.0044
Moon	14101-06-23 09:21 G	6871517.67	6871517.89	6871518.14	0.0089	0.0040 *
Moon	14102-06-25 15:50 G	6871884.98	6871885.16	6871885.37	0.0089	0.0055
Earth	14102-06-25 18:00 G	6871885.06	6871885.25	6871885.48	0.0089	0.0051 *
Earth	14103-06-28 05:45 G	6872252.56	6872252.74	6872252.94	0.0089	0.0059
Moon	14103-06-28 06:43 G	6872252.58	6872252.78	6872252.99	0.0089	0.0055 *
Earth	14104-06-29 16:48 G	6872620.05	6872620.20	6872620.39	0.0089	0.0066
Moon	14104-06-29 17:31 G	6872620.09	6872620.23	6872620.40	0.0089	0.0069 *
Moon	14105-07-02 02:52 G	6872987.47	6872987.62	6872987.80	0.0089	0.0069
Earth	14105-07-02 04:04 G	6872987.55	6872987.67	6872987.83	0.0089	0.0074 *
Earth	14106-07-04 15:21 G	6873355.05	6873355.14	6873355.26	0.0089	0.0080
Moon	14106-07-04 18:14 G	6873355.19	6873355.26	6873355.34	0.0089	0.0084 *
Moon	14107-07-06 22:48 G	6873722.40	6873722.45	6873722.56	0.0089	0.0084
Earth	14107-07-07 02:38 G	6873722.57	6873722.61	6873722.66	0.0089	0.0087
Mars	14115-06-20 21:50 G	6876628.19	6876628.41	6876628.68	0.0089	0.0058
Mars	14117-05-16 06:57 G	6877323.50	6877323.79	6877324.10	0.0089	0.0034
Venus	14136-11-10 20:38 G	6884442.31	6884442.36	6884442.45	0.0088	0.0083
Venus	14137-06-24 09:21 G	6884667.77	6884667.89	6884668.07	0.0088	0.0065
Venus	14138-02-04 22:33 G	6884893.26	6884893.44	6884893.64	0.0088	0.0045
Venus	14138-09-18 11:16 G	6885118.77	6885118.97	6885119.19	0.0088	0.0025
Venus	14139-05-02 00:00 G	6885344.29	6885344.50	6885344.73	0.0088	0.0006
Venus	14139-12-13 12:57 G	6885569.82	6885570.04	6885570.26	0.0088	0.0013
Venus	14140-07-26 01:26 G	6885795.37	6885795.56	6885795.78	0.0088	0.0033
Mercury	14140-10-16 22:48 G	6885878.43	6885878.45	6885878.48	0.0088	0.0086
Mercury	14141-01-13 00:43 G	6885966.48	6885966.53	6885966.62	0.0088	0.0079



Venus	14141-03-08 14:09 G	6886020.93	6886021.09	6886021.28	0.0088	0.0052
Mercury	14141-04-11 03:07 G	6886054.55	6886054.63	6886054.73	0.0088	0.0071
Mercury	14141-07-08 05:16 G	6886142.62	6886142.72	6886142.84	0.0088	0.0063
Mercury	14141-10-04 07:40 G	6886230.70	6886230.82	6886230.95	0.0088	0.0055
Venus	14141-10-20 02:52 G	6886246.50	6886246.62	6886246.76	0.0088	0.0071
Mercury	14141-12-31 09:36 G	6886318.78	6886318.90	6886319.05	0.0088	0.0049
Mercury	14142-03-29 12:00 G	6886406.87	6886407.00	6886407.16	0.0088	0.0040
Mercury	14142-06-25 14:24 G	6886494.95	6886495.10	6886495.26	0.0088	0.0032
Mercury	14142-09-21 16:48 G	6886583.04	6886583.20	6886583.36	0.0088	0.0024
Mercury	14142-12-18 18:57 G	6886671.14	6886671.29	6886671.46	0.0088	0.0016
Mercury	14143-03-16 21:21 G	6886759.23	6886759.39	6886759.55	0.0088	0.0008
Mercury	14143-06-12 23:45 G	6886847.32	6886847.49	6886847.65	0.0088	0.0001
Mercury	14143-09-09 01:55 G	6886935.42	6886935.58	6886935.75	0.0088	0.0008
Mercury	14143-12-06 04:19 G	6887023.52	6887023.68	6887023.84	0.0088	0.0016
Mercury	14144-03-03 06:28 G	6887111.62	6887111.77	6887111.94	0.0088	0.0024
Mercury	14144-05-30 08:52 G	6887199.72	6887199.87	6887200.03	0.0088	0.0032
Mercury	14144-08-26 11:16 G	6887287.83	6887287.97	6887288.12	0.0088	0.0040
Mercury	14144-11-22 13:26 G	6887375.94	6887376.06	6887376.21	0.0088	0.0049
Mercury	14145-02-18 15:50 G	6887464.05	6887464.16	6887464.30	0.0088	0.0057
Mercury	14145-05-17 18:14 G	6887552.16	6887552.26	6887552.38	0.0088	0.0065
Mercury	14145-08-13 20:38 G	6887640.28	6887640.36	6887640.46	0.0088	0.0073
Mercury	14145-11-09 23:16 G	6887728.41	6887728.47	6887728.53	0.0088	0.0081
Earth	14166-11-12 22:33 G	6895401.39	6895401.44	6895401.50	0.0088	0.0085
Earth	14167-11-15 08:52 G	6895768.78	6895768.87	6895769.01	0.0088	0.0079
Moon	14167-11-15 11:31 G	6895768.87	6895768.98	6895769.14	0.0088	0.0075 *
Moon	14168-11-16 16:33 G	6896136.09	6896136.19	6896136.35	0.0088	0.0076
Earth	14168-11-16 19:55 G	6896136.21	6896136.33	6896136.51	0.0088	0.0072 *
Earth	14169-11-19 06:57 G	6896503.64	6896503.79	6896503.99	0.0088	0.0065
Moon	14169-11-19 11:16 G	6896503.78	6896503.97	6896504.16	0.0088	0.0060 *
Moon	14170-11-21 15:21 G	6896870.96	6896871.14	6896871.33	0.0088	0.0061

Earth	14170-11-21 18:00 G	6896871.09	6896871.25	6896871.48	0.0088	0.0058 *
Earth	14171-11-24 05:45 G	6897238.53	6897238.74	6897238.95	0.0088	0.0050
Moon	14171-11-24 08:24 G	6897238.65	6897238.85	6897239.09	0.0088	0.0047 *
Moon	14172-11-25 15:07 G	6897605.93	6897606.13	6897606.35	0.0088	0.0047
Earth	14172-11-25 16:33 G	6897605.98	6897606.19	6897606.43	0.0088	0.0043 *
Earth	14173-11-28 03:50 G	6897973.44	6897973.66	6897973.91	0.0088	0.0036
Moon	14173-11-28 04:48 G	6897973.45	6897973.70	6897973.95	0.0088	0.0032 *
Earth	14174-11-30 15:21 G	6898340.90	6898341.14	6898341.39	0.0088	0.0028
Moon	14174-11-30 15:21 G	6898340.93	6898341.14	6898341.39	0.0088	0.0032 *
Moon	14175-12-03 00:14 G	6898708.26	6898708.51	6898708.79	0.0088	0.0017
Earth	14175-12-03 02:24 G	6898708.36	6898708.60	6898708.87	0.0088	0.0021 *
Earth	14176-12-04 14:09 G	6899075.83	6899076.09	6899076.35	0.0088	0.0013
Moon	14176-12-04 16:33 G	6899075.95	6899076.19	6899076.45	0.0088	0.0017 *
Moon	14177-12-06 22:19 G	6899443.17	6899443.43	6899443.70	0.0088	0.0003
Earth	14177-12-07 01:55 G	6899443.32	6899443.58	6899443.84	0.0088	0.0006 *
Earth	14178-12-09 13:26 G	6899810.80	6899811.06	6899811.32	0.0088	0.0002
Moon	14178-12-09 17:16 G	6899810.96	6899811.22	6899811.48	0.0088	0.0002 *
Moon	14179-12-11 22:04 G	6900178.17	6900178.42	6900178.67	0.0088	0.0013
Earth	14179-12-12 01:12 G	6900178.30	6900178.55	6900178.81	0.0088	0.0009 *
Earth	14180-12-13 12:43 G	6900545.78	6900546.03	6900546.29	0.0088	0.0017
Moon	14180-12-13 15:50 G	6900545.90	6900546.16	6900546.43	0.0088	0.0014 *
Moon	14181-12-15 23:02 G	6900913.23	6900913.46	6900913.71	0.0088	0.0028
Earth	14181-12-16 00:43 G	6900913.28	6900913.53	6900913.78	0.0088	0.0024 *
Earth	14182-12-18 12:14 G	6901280.78	6901281.01	6901281.27	0.0088	0.0032
Moon	14182-12-18 12:57 G	6901280.80	6901281.04	6901281.31	0.0088	0.0030 *
Earth	14183-12-21 00:00 G	6901648.28	6901648.50	6901648.74	0.0088	0.0040
Moon	14183-12-21 00:28 G	6901648.31	6901648.52	6901648.75	0.0088	0.0042 *
Moon	14184-12-22 09:50 G	6902015.68	6902015.91	6902016.15	0.0088	0.0044
Earth	14184-12-22 11:45 G	6902015.79	6902015.99	6902016.23	0.0088	0.0047 *
Earth	14185-12-24 23:45 G	6902383.30	6902383.49	6902383.71	0.0088	0.0054

Moon	14185-12-25 02:09 G	6902383.42	6902383.59	6902383.81	0.0088	0.0057 *
Moon	14186-12-27 07:55 G	6902750.66	6902750.83	6902751.05	0.0088	0.0060
Earth	14186-12-27 12:00 G	6902750.82	6902751.00	6902751.19	0.0088	0.0062 *
Earth	14187-12-29 23:16 G	6903118.34	6903118.47	6903118.66	0.0088	0.0070
Moon	14187-12-30 03:36 G	6903118.51	6903118.65	6903118.81	0.0088	0.0072 *
Moon	14188-12-31 08:09 G	6903485.73	6903485.84	6903486.01	0.0088	0.0075
Earth	14188-12-31 11:31 G	6903485.88	6903485.98	6903486.14	0.0088	0.0077 *
Earth	14190-01-02 23:45 G	6903853.43	6903853.49	6903853.61	0.0088	0.0083
Moon	14190-01-03 03:21 G	6903853.58	6903853.64	6903853.72	0.0088	0.0085 *
Moon	14191-01-05 11:02 G	6904220.95	6904220.96	6904221.00	0.0088	0.0088
Mars	14199-04-16 03:21 G	6907243.36	6907243.64	6907243.94	0.0089	0.0025
Mars	14201-03-11 08:38 G	6907937.65	6907937.86	6907938.10	0.0089	0.0060
Jupiter	14217-01-09 08:24 G	6913720.43	6913720.85	6913721.31	0.0089	0.0049
Venus	14220-03-23 15:36 G	6914890.05	6914890.15	6914890.31	0.0089	0.0073
Venus	14220-11-04 05:02 G	6915115.55	6915115.71	6915115.91	0.0089	0.0052
Venus	14221-06-17 18:28 G	6915341.07	6915341.27	6915341.49	0.0089	0.0032
Venus	14222-01-29 07:55 G	6915566.62	6915566.83	6915567.05	0.0089	0.0012
Venus	14222-09-11 21:07 G	6915792.17	6915792.38	6915792.61	0.0089	0.0009
Venus	14223-04-25 10:19 G	6916017.73	6916017.93	6916018.15	0.0089	0.0028
Mercury	14223-10-19 20:24 G	6916195.31	6916195.35	6916195.42	0.0089	0.0084
Venus	14223-12-06 23:31 G	6916243.31	6916243.48	6916243.68	0.0089	0.0049
Mercury	14224-01-15 22:33 G	6916283.37	6916283.44	6916283.53	0.0089	0.0075
Mercury	14224-04-13 00:43 G	6916371.44	6916371.53	6916371.64	0.0089	0.0067
Mercury	14224-07-10 02:38 G	6916459.51	6916459.61	6916459.74	0.0089	0.0060
Venus	14224-07-19 12:43 G	6916468.90	6916469.03	6916469.18	0.0089	0.0069
Mercury	14224-10-06 04:48 G	6916547.58	6916547.70	6916547.83	0.0089	0.0051
Mercury	14225-01-02 06:57 G	6916635.66	6916635.79	6916635.93	0.0089	0.0043
Venus	14225-03-02 01:55 G	6916694.57	6916694.58	6916694.62	0.0089	0.0089
Mercury	14225-03-31 08:52 G	6916723.74	6916723.87	6916724.02	0.0089	0.0036
Mercury	14225-06-27 11:02 G	6916811.82	6916811.96	6916812.11	0.0089	0.0028

Mercury	14225-09-23 13:12 G	6916899.90	6916900.05	6916900.20	0.0089	0.0020
Mercury	14225-12-20 15:07 G	6916987.98	6916988.13	6916988.28	0.0089	0.0012
Mercury	14226-03-18 17:02 G	6917076.06	6917076.21	6917076.37	0.0089	0.0004
Mercury	14226-06-14 19:12 G	6917164.14	6917164.30	6917164.45	0.0089	0.0004
Mercury	14226-09-10 21:07 G	6917252.23	6917252.38	6917252.53	0.0089	0.0012
Mercury	14226-12-07 23:02 G	6917340.31	6917340.46	6917340.61	0.0089	0.0019
Mercury	14227-03-06 00:57 G	6917428.40	6917428.54	6917428.69	0.0089	0.0027
Mercury	14227-06-02 02:52 G	6917516.48	6917516.62	6917516.76	0.0089	0.0035
Mercury	14227-08-29 04:48 G	6917604.57	6917604.70	6917604.84	0.0089	0.0042
Mercury	14227-11-25 06:28 G	6917692.66	6917692.77	6917692.91	0.0089	0.0051
Mercury	14228-02-21 08:38 G	6917780.75	6917780.86	6917780.98	0.0089	0.0058
Mercury	14228-05-19 10:19 G	6917868.84	6917868.93	6917869.05	0.0089	0.0066
Mercury	14228-08-15 12:28 G	6917956.94	6917957.02	6917957.11	0.0089	0.0073
Mercury	14228-11-11 14:09 G	6918045.04	6918045.09	6918045.17	0.0089	0.0081
Mercury	14229-02-07 16:19 G	6918133.16	6918133.18	6918133.21	0.0089	0.0088
Moon	14248-05-16 05:02 G	6925170.64	6925170.71	6925170.81	0.0089	0.0085
Earth	14248-05-16 04:48 G	6925170.69	6925170.70	6925170.74	0.0089	0.0089 *
Earth	14249-05-18 17:02 G	6925538.12	6925538.21	6925538.33	0.0089	0.0082
Moon	14249-05-18 17:31 G	6925538.19	6925538.23	6925538.32	0.0089	0.0087 *
Moon	14250-05-21 03:07 G	6925905.48	6925905.63	6925905.80	0.0089	0.0070
Earth	14250-05-21 05:16 G	6925905.60	6925905.72	6925905.88	0.0089	0.0075 *
Earth	14251-05-23 17:16 G	6926273.08	6926273.22	6926273.42	0.0089	0.0068
Moon	14251-05-23 20:09 G	6926273.21	6926273.34	6926273.51	0.0089	0.0072 *
Moon	14252-05-25 02:24 G	6926640.41	6926640.60	6926640.82	0.0089	0.0056
Earth	14252-05-25 06:14 G	6926640.57	6926640.76	6926640.95	0.0089	0.0060 *
Earth	14253-05-27 18:00 G	6927008.07	6927008.25	6927008.48	0.0089	0.0053
Moon	14253-05-27 22:04 G	6927008.22	6927008.42	6927008.62	0.0089	0.0057 *
Moon	14254-05-30 03:07 G	6927375.43	6927375.63	6927375.87	0.0089	0.0041
Earth	14254-05-30 06:43 G	6927375.56	6927375.78	6927376.00	0.0089	0.0045 *
Earth	14255-06-01 18:28 G	6927743.06	6927743.27	6927743.52	0.0089	0.0038

Moon	14255-06-01 21:21 G	6927743.18	6927743.39	6927743.64	0.0089	0.0042	*
Moon	14256-06-03 05:45 G	6928110.51	6928110.74	6928110.99	0.0089	0.0026	
Earth	14256-06-03 07:12 G	6928110.56	6928110.80	6928111.05	0.0089	0.0030	*
Earth	14257-06-05 19:12 G	6928478.05	6928478.30	6928478.55	0.0089	0.0022	
Moon	14257-06-05 19:26 G	6928478.07	6928478.31	6928478.58	0.0089	0.0026	*
Earth	14258-06-08 06:57 G	6928845.55	6928845.79	6928846.06	0.0089	0.0015	
Moon	14258-06-08 07:55 G	6928845.58	6928845.83	6928846.08	0.0089	0.0010	*
Moon	14259-06-10 16:48 G	6929212.94	6929213.20	6929213.46	0.0089	0.0011	
Earth	14259-06-10 19:12 G	6929213.04	6929213.30	6929213.55	0.0089	0.0006	*
Earth	14260-06-12 06:57 G	6929580.53	6929580.79	6929581.04	0.0089	0.0002	
Moon	14260-06-12 09:36 G	6929580.65	6929580.90	6929581.15	0.0089	0.0005	*
Moon	14261-06-14 15:07 G	6929947.87	6929948.13	6929948.39	0.0089	0.0005	
Earth	14261-06-14 18:28 G	6929948.02	6929948.27	6929948.53	0.0089	0.0009	*
Earth	14262-06-17 06:00 G	6930315.50	6930315.75	6930316.01	0.0089	0.0016	
Moon	14262-06-17 09:36 G	6930315.65	6930315.90	6930316.15	0.0089	0.0020	*
Moon	14263-06-19 14:24 G	6930682.87	6930683.10	6930683.36	0.0089	0.0021	
Earth	14263-06-19 17:31 G	6930683.00	6930683.23	6930683.49	0.0089	0.0025	*
Earth	14264-06-21 05:16 G	6931050.49	6931050.72	6931050.97	0.0089	0.0032	
Moon	14264-06-21 07:55 G	6931050.60	6931050.83	6931051.09	0.0089	0.0035	*
Moon	14265-06-23 15:21 G	6931417.93	6931418.14	6931418.38	0.0089	0.0036	
Earth	14265-06-23 16:33 G	6931417.98	6931418.19	6931418.44	0.0089	0.0039	*
Earth	14266-06-26 04:19 G	6931785.47	6931785.68	6931785.90	0.0089	0.0046	
Moon	14266-06-26 04:33 G	6931785.49	6931785.69	6931785.93	0.0089	0.0049	*
Earth	14267-06-28 15:21 G	6932152.96	6932153.14	6932153.37	0.0089	0.0055	
Moon	14267-06-28 16:19 G	6932153.00	6932153.18	6932153.40	0.0089	0.0051	*
Moon	14268-06-30 00:57 G	6932520.37	6932520.54	6932520.73	0.0089	0.0064	
Earth	14268-06-30 03:07 G	6932520.46	6932520.63	6932520.83	0.0089	0.0061	*
Earth	14269-07-02 14:24 G	6932887.95	6932888.10	6932888.28	0.0089	0.0068	
Moon	14269-07-02 17:31 G	6932888.06	6932888.23	6932888.40	0.0089	0.0066	*
Moon	14270-07-04 22:04 G	6933255.32	6933255.42	6933255.56	0.0089	0.0078	

Earth	14270-07-05 01:40 G	6933255.45	6933255.57	6933255.72	0.0089	0.0075 *
Earth	14271-07-07 12:43 G	6933622.95	6933623.03	6933623.15	0.0089	0.0082
Moon	14271-07-07 16:04 G	6933623.08	6933623.17	6933623.31	0.0089	0.0079 *
Earth	14272-07-09 00:00 G	6933990.50	6933990.50	6933990.54	0.0089	0.0089
Mars	14280-12-29 11:02 G	6937085.64	6937085.96	6937086.29	0.0089	0.0005
Mars	14282-11-24 19:26 G	6937781.29	6937781.31	6937781.40	0.0089	0.0088
Venus	14301-09-27 20:24 G	6944662.25	6944662.35	6944662.50	0.0088	0.0072
Venus	14302-05-11 09:21 G	6944887.72	6944887.89	6944888.08	0.0088	0.0053
Venus	14302-12-22 22:04 G	6945113.23	6945113.42	6945113.63	0.0088	0.0033
Venus	14303-08-05 11:02 G	6945338.75	6945338.96	6945339.18	0.0088	0.0014
Venus	14304-03-17 23:45 G	6945564.27	6945564.49	6945564.71	0.0088	0.0006
Venus	14304-10-29 12:14 G	6945789.81	6945790.01	6945790.23	0.0088	0.0025
Venus	14305-06-12 00:57 G	6946015.36	6946015.54	6946015.74	0.0088	0.0045
Mercury	14305-07-15 21:50 G	6946049.37	6946049.41	6946049.47	0.0088	0.0083
Mercury	14305-10-12 00:14 G	6946137.43	6946137.51	6946137.60	0.0088	0.0075
Mercury	14306-01-08 02:38 G	6946225.51	6946225.61	6946225.71	0.0088	0.0067
Venus	14306-01-23 13:55 G	6946240.93	6946241.08	6946241.24	0.0088	0.0063
Mercury	14306-04-06 04:33 G	6946313.58	6946313.69	6946313.82	0.0088	0.0060
Mercury	14306-07-03 06:43 G	6946401.66	6946401.78	6946401.92	0.0088	0.0052
Venus	14306-09-06 02:09 G	6946466.54	6946466.59	6946466.69	0.0088	0.0083
Mercury	14306-09-29 09:07 G	6946489.75	6946489.88	6946490.02	0.0088	0.0044
Mercury	14306-12-26 11:31 G	6946577.83	6946577.98	6946578.13	0.0088	0.0036
Mercury	14307-03-24 13:40 G	6946665.92	6946666.07	6946666.23	0.0088	0.0028
Mercury	14307-06-20 15:50 G	6946754.01	6946754.16	6946754.33	0.0088	0.0021
Mercury	14307-09-16 18:14 G	6946842.10	6946842.26	6946842.42	0.0088	0.0013
Mercury	14307-12-13 20:38 G	6946930.19	6946930.36	6946930.52	0.0088	0.0005
Mercury	14308-03-10 22:48 G	6947018.29	6947018.45	6947018.62	0.0088	0.0004
Mercury	14308-06-07 01:12 G	6947106.39	6947106.55	6947106.71	0.0088	0.0011
Mercury	14308-09-03 03:21 G	6947194.49	6947194.64	6947194.81	0.0088	0.0020
Mercury	14308-11-30 05:31 G	6947282.59	6947282.73	6947282.90	0.0088	0.0028

Mercury	14309-02-26 07:55 G	6947370.69	6947370.83	6947370.99	0.0088	0.0036
Mercury	14309-05-25 10:19 G	6947458.80	6947458.93	6947459.08	0.0088	0.0044
Mercury	14309-08-21 12:43 G	6947546.90	6947547.03	6947547.17	0.0088	0.0052
Mercury	14309-11-17 15:07 G	6947635.02	6947635.13	6947635.26	0.0088	0.0060
Mercury	14310-02-13 17:31 G	6947723.13	6947723.23	6947723.34	0.0088	0.0068
Mercury	14310-05-12 19:40 G	6947811.26	6947811.32	6947811.41	0.0088	0.0077
Mercury	14310-08-08 22:04 G	6947899.39	6947899.42	6947899.48	0.0088	0.0085
Earth	14330-11-14 07:40 G	6955301.79	6955301.82	6955301.90	0.0088	0.0086
Moon	14330-11-14 10:33 G	6955301.91	6955301.94	6955302.04	0.0088	0.0085
Moon	14331-11-16 15:21 G	6955669.06	6955669.14	6955669.27	0.0088	0.0080
Earth	14331-11-16 18:57 G	6955669.20	6955669.29	6955669.42	0.0088	0.0079 *
Earth	14332-11-18 05:31 G	6956036.62	6956036.73	6956036.91	0.0088	0.0073
Moon	14332-11-18 09:36 G	6956036.76	6956036.90	6956037.07	0.0088	0.0070 *
Moon	14333-11-20 14:09 G	6956403.94	6956404.09	6956404.26	0.0088	0.0067
Earth	14333-11-20 17:02 G	6956404.06	6956404.21	6956404.40	0.0088	0.0066 *
Earth	14334-11-23 04:04 G	6956771.50	6956771.67	6956771.89	0.0088	0.0059
Moon	14334-11-23 06:28 G	6956771.59	6956771.77	6956771.99	0.0088	0.0057 *
Moon	14335-11-25 13:55 G	6957138.89	6957139.08	6957139.29	0.0088	0.0054
Earth	14335-11-25 15:07 G	6957138.95	6957139.13	6957139.36	0.0088	0.0052 *
Moon	14336-11-27 02:24 G	6957506.38	6957506.60	6957506.85	0.0088	0.0043
Earth	14336-11-27 02:24 G	6957506.40	6957506.60	6957506.84	0.0088	0.0045 *
Earth	14337-11-29 13:40 G	6957873.85	6957874.07	6957874.32	0.0088	0.0038
Moon	14337-11-29 15:21 G	6957873.92	6957874.14	6957874.37	0.0088	0.0039 *
Moon	14338-12-01 23:02 G	6958241.21	6958241.46	6958241.72	0.0088	0.0028
Earth	14338-12-02 00:43 G	6958241.31	6958241.53	6958241.79	0.0088	0.0031 *
Earth	14339-12-04 12:14 G	6958608.77	6958609.01	6958609.27	0.0088	0.0023
Moon	14339-12-04 15:21 G	6958608.91	6958609.14	6958609.40	0.0088	0.0026 *
Moon	14340-12-05 20:09 G	6958976.09	6958976.34	6958976.60	0.0088	0.0014
Earth	14340-12-05 23:45 G	6958976.24	6958976.49	6958976.75	0.0088	0.0016 *
Earth	14341-12-08 11:02 G	6959343.71	6959343.96	6959344.23	0.0088	0.0009

Moon	14341-12-08 14:38 G	6959343.86	6959344.11	6959344.38	0.0088	0.0012	*
Moon	14342-12-10 19:40 G	6959711.07	6959711.32	6959711.58	0.0088	0.0001	
Earth	14342-12-10 22:48 G	6959711.19	6959711.45	6959711.71	0.0088	0.0002	*
Earth	14343-12-13 10:19 G	6960078.67	6960078.93	6960079.19	0.0088	0.0006	
Moon	14343-12-13 12:28 G	6960078.75	6960079.02	6960079.28	0.0088	0.0003	*
Moon	14344-12-14 20:24 G	6960446.11	6960446.35	6960446.61	0.0088	0.0017	
Earth	14344-12-14 22:04 G	6960446.16	6960446.42	6960446.68	0.0088	0.0013	*
Moon	14345-12-17 09:21 G	6960813.64	6960813.89	6960814.16	0.0088	0.0018	
Earth	14345-12-17 09:36 G	6960813.66	6960813.90	6960814.16	0.0088	0.0021	*
Earth	14346-12-19 21:07 G	6961181.15	6961181.38	6961181.64	0.0088	0.0028	
Moon	14346-12-19 22:48 G	6961181.22	6961181.45	6961181.69	0.0088	0.0030	*
Moon	14347-12-22 06:43 G	6961548.55	6961548.78	6961549.05	0.0088	0.0032	
Earth	14347-12-22 09:07 G	6961548.65	6961548.88	6961549.13	0.0088	0.0035	*
Earth	14348-12-23 20:52 G	6961916.15	6961916.37	6961916.61	0.0088	0.0042	
Moon	14348-12-24 00:14 G	6961916.30	6961916.51	6961916.74	0.0088	0.0046	*
Moon	14349-12-26 05:02 G	6962283.51	6962283.71	6962283.95	0.0088	0.0047	
Earth	14349-12-26 08:52 G	6962283.66	6962283.87	6962284.09	0.0088	0.0050	*
Earth	14350-12-28 20:38 G	6962651.17	6962651.36	6962651.57	0.0088	0.0057	
Moon	14350-12-29 00:14 G	6962651.33	6962651.51	6962651.71	0.0088	0.0061	*
Moon	14351-12-31 05:31 G	6963018.55	6963018.73	6963018.92	0.0088	0.0061	
Earth	14351-12-31 08:09 G	6963018.69	6963018.84	6963019.04	0.0088	0.0064	*
Earth	14353-01-01 20:38 G	6963386.21	6963386.36	6963386.52	0.0088	0.0071	
Moon	14353-01-01 22:19 G	6963386.31	6963386.43	6963386.60	0.0088	0.0074	*
Moon	14354-01-04 06:57 G	6963753.68	6963753.79	6963753.95	0.0088	0.0074	
Earth	14354-01-04 08:38 G	6963753.75	6963753.86	6963753.99	0.0088	0.0078	*
Earth	14355-01-06 20:24 G	6964121.30	6964121.35	6964121.45	0.0088	0.0085	
Moon	14355-01-06 20:24 G	6964121.34	6964121.35	6964121.39	0.0088	0.0088	*
Moon	14356-01-09 10:04 G	6964488.92	6964488.92	6964488.96	0.0088	0.0088	
Mars	14362-12-01 02:24 G	6967006.41	6967006.60	6967006.86	0.0089	0.0061	
Mars	14364-10-25 10:33 G	6967700.66	6967700.94	6967701.25	0.0089	0.0025	



Jupiter	14383-03-15 00:43 G	6974415.03	6974415.53	6974416.07	0.0089	0.0010
Venus	14384-06-26 02:24 G	6974884.52	6974884.60	6974884.70	0.0089	0.0080
Venus	14385-02-06 15:36 G	6975110.00	6975110.15	6975110.33	0.0089	0.0061
Venus	14385-09-20 05:02 G	6975335.52	6975335.71	6975335.91	0.0089	0.0040
Venus	14386-05-03 18:14 G	6975561.05	6975561.26	6975561.48	0.0089	0.0020
Venus	14386-12-15 07:40 G	6975786.60	6975786.82	6975787.05	0.0089	0.0002
Venus	14387-07-28 20:52 G	6976012.16	6976012.37	6976012.59	0.0089	0.0020
Venus	14388-03-10 09:50 G	6976237.73	6976237.91	6976238.12	0.0089	0.0041
Mercury	14388-04-19 17:31 G	6976278.23	6976278.23	6976278.28	0.0089	0.0089
Mercury	14388-07-16 19:40 G	6976366.27	6976366.32	6976366.41	0.0089	0.0081
Mercury	14388-10-12 21:50 G	6976454.34	6976454.41	6976454.52	0.0089	0.0072
Venus	14388-10-21 23:02 G	6976463.32	6976463.46	6976463.64	0.0089	0.0061
Mercury	14389-01-09 00:00 G	6976542.41	6976542.50	6976542.62	0.0089	0.0064
Mercury	14389-04-07 01:55 G	6976630.48	6976630.58	6976630.72	0.0089	0.0057
Venus	14389-06-04 12:14 G	6976688.93	6976689.01	6976689.12	0.0089	0.0080
Mercury	14389-07-04 04:04 G	6976718.55	6976718.67	6976718.81	0.0089	0.0048
Mercury	14389-09-30 06:14 G	6976806.63	6976806.76	6976806.91	0.0089	0.0040
Mercury	14389-12-27 08:09 G	6976894.71	6976894.84	6976895.00	0.0089	0.0033
Mercury	14390-03-25 10:19 G	6976982.79	6976982.93	6976983.08	0.0089	0.0024
Mercury	14390-06-21 12:28 G	6977070.87	6977071.02	6977071.17	0.0089	0.0016
Mercury	14390-09-17 14:24 G	6977158.95	6977159.10	6977159.26	0.0089	0.0009
Mercury	14390-12-14 16:33 G	6977247.04	6977247.19	6977247.34	0.0089	0.0001
Mercury	14391-03-12 18:28 G	6977335.12	6977335.27	6977335.42	0.0089	0.0007
Mercury	14391-06-08 20:24 G	6977423.20	6977423.35	6977423.50	0.0089	0.0015
Mercury	14391-09-04 22:19 G	6977511.29	6977511.43	6977511.58	0.0089	0.0023
Mercury	14391-12-02 00:14 G	6977599.37	6977599.51	6977599.66	0.0089	0.0031
Mercury	14392-02-28 02:09 G	6977687.46	6977687.59	6977687.73	0.0089	0.0038
Mercury	14392-05-26 04:19 G	6977775.55	6977775.68	6977775.81	0.0089	0.0046
Mercury	14392-08-22 06:00 G	6977863.64	6977863.75	6977863.88	0.0089	0.0054
Mercury	14392-11-18 07:55 G	6977951.73	6977951.83	6977951.95	0.0089	0.0061

Mercury	14393-02-14 09:50 G	6978039.83	6978039.91	6978040.01	0.0089	0.0069
Mercury	14393-05-13 11:31 G	6978127.92	6978127.98	6978128.08	0.0089	0.0077
Mercury	14393-08-09 13:40 G	6978216.03	6978216.07	6978216.13	0.0089	0.0084
Earth	14412-05-16 13:26 G	6985071.06	6985071.06	6985071.10	0.0089	0.0089
Moon	14412-05-16 15:07 G	6985071.13	6985071.13	6985071.16	0.0089	0.0089
Moon	14413-05-18 23:31 G	6985438.39	6985438.48	6985438.61	0.0089	0.0082
Earth	14413-05-19 01:40 G	6985438.50	6985438.57	6985438.70	0.0089	0.0083 *
Earth	14414-05-21 13:55 G	6985805.97	6985806.08	6985806.24	0.0089	0.0076
Moon	14414-05-21 18:00 G	6985806.12	6985806.25	6985806.38	0.0089	0.0076 *
Moon	14415-05-23 22:48 G	6986173.31	6986173.45	6986173.65	0.0089	0.0069
Earth	14415-05-24 02:24 G	6986173.46	6986173.60	6986173.79	0.0089	0.0069 *
Earth	14416-05-25 14:38 G	6986540.95	6986541.11	6986541.32	0.0089	0.0062
Moon	14416-05-25 18:14 G	6986541.10	6986541.26	6986541.46	0.0089	0.0064 *
Moon	14417-05-28 00:00 G	6986908.32	6986908.50	6986908.72	0.0089	0.0054
Earth	14417-05-28 02:52 G	6986908.44	6986908.62	6986908.84	0.0089	0.0055 *
Earth	14418-05-30 15:21 G	6987275.93	6987276.14	6987276.36	0.0089	0.0047
Moon	14418-05-30 17:02 G	6987276.01	6987276.21	6987276.45	0.0089	0.0048 *
Moon	14419-06-02 02:24 G	6987643.38	6987643.60	6987643.83	0.0089	0.0038
Earth	14419-06-02 03:21 G	6987643.43	6987643.64	6987643.89	0.0089	0.0040 *
Moon	14420-06-03 14:52 G	6988010.89	6988011.12	6988011.39	0.0089	0.0034
Earth	14420-06-03 15:21 G	6988010.92	6988011.14	6988011.40	0.0089	0.0033 *
Earth	14421-06-06 03:50 G	6988378.42	6988378.66	6988378.91	0.0089	0.0025
Moon	14421-06-06 05:16 G	6988378.49	6988378.72	6988378.97	0.0089	0.0024 *
Moon	14422-06-08 13:26 G	6988745.82	6988746.06	6988746.33	0.0089	0.0020
Earth	14422-06-08 15:50 G	6988745.92	6988746.16	6988746.42	0.0089	0.0017 *
Earth	14423-06-11 04:04 G	6989113.41	6989113.67	6989113.92	0.0089	0.0010
Moon	14423-06-11 07:12 G	6989113.56	6989113.80	6989114.06	0.0089	0.0009 *
Moon	14424-06-12 12:28 G	6989480.77	6989481.02	6989481.28	0.0089	0.0004
Earth	14424-06-12 16:04 G	6989480.91	6989481.17	6989481.42	0.0089	0.0002 *
Earth	14425-06-15 03:36 G	6989848.39	6989848.65	6989848.91	0.0089	0.0005

Moon	14425-06-15 07:12 G	6989848.55	6989848.80	6989849.06	0.0089	0.0008	*
Moon	14426-06-17 12:28 G	6990215.77	6990216.02	6990216.27	0.0089	0.0011	
Earth	14426-06-17 15:21 G	6990215.89	6990216.14	6990216.39	0.0089	0.0013	*
Earth	14427-06-20 02:38 G	6990583.37	6990583.61	6990583.87	0.0089	0.0021	
Moon	14427-06-20 05:02 G	6990583.45	6990583.71	6990583.97	0.0089	0.0023	*
Moon	14428-06-21 12:57 G	6990950.82	6990951.04	6990951.29	0.0089	0.0025	
Earth	14428-06-21 14:24 G	6990950.86	6990951.10	6990951.35	0.0089	0.0028	*
Moon	14429-06-24 00:57 G	6991318.32	6991318.54	6991318.80	0.0089	0.0038	
Earth	14429-06-24 01:40 G	6991318.35	6991318.57	6991318.82	0.0089	0.0035	*
Earth	14430-06-26 13:12 G	6991685.84	6991686.05	6991686.29	0.0089	0.0042	
Moon	14430-06-26 14:38 G	6991685.90	6991686.11	6991686.35	0.0089	0.0040	*
Moon	14431-06-28 22:04 G	6992053.23	6992053.42	6992053.65	0.0089	0.0053	
Earth	14431-06-29 00:43 G	6992053.33	6992053.53	6992053.76	0.0089	0.0049	*
Earth	14432-06-30 12:14 G	6992420.82	6992421.01	6992421.22	0.0089	0.0056	
Moon	14432-06-30 15:21 G	6992420.96	6992421.14	6992421.36	0.0089	0.0054	*
Moon	14433-07-02 19:55 G	6992788.18	6992788.33	6992788.52	0.0089	0.0066	
Earth	14433-07-02 23:31 G	6992788.32	6992788.48	6992788.67	0.0089	0.0063	*
Earth	14434-07-05 10:48 G	6993155.81	6993155.95	6993156.13	0.0089	0.0070	
Moon	14434-07-05 14:38 G	6993155.95	6993156.11	6993156.29	0.0089	0.0066	*
Moon	14435-07-07 19:26 G	6993523.23	6993523.31	6993523.44	0.0089	0.0080	
Earth	14435-07-07 22:04 G	6993523.32	6993523.42	6993523.58	0.0089	0.0077	*
Earth	14436-07-09 09:07 G	6993890.83	6993890.88	6993891.00	0.0089	0.0084	
Moon	14436-07-09 11:31 G	6993890.88	6993890.98	6993891.11	0.0089	0.0080	*
Mars	14444-08-13 15:21 G	6996847.87	6996848.14	6996848.44	0.0089	0.0043	
Mars	14446-07-09 23:45 G	6997543.22	6997543.49	6997543.76	0.0089	0.0048	
Venus	14465-12-30 06:43 G	7004656.71	7004656.78	7004656.89	0.0088	0.0081	
Venus	14466-08-12 19:26 G	7004882.18	7004882.31	7004882.49	0.0088	0.0061	
Venus	14467-03-26 08:38 G	7005107.67	7005107.86	7005108.06	0.0088	0.0042	
Venus	14467-11-06 21:07 G	7005333.18	7005333.38	7005333.60	0.0088	0.0023	
Venus	14468-06-19 10:04 G	7005558.70	7005558.92	7005559.14	0.0088	0.0003	

Venus	14469-01-30 22:48 G	7005784.24	7005784.45	7005784.67	0.0088	0.0016
Venus	14469-09-13 11:16 G	7006009.78	7006009.97	7006010.18	0.0088	0.0036
Mercury	14470-01-13 18:43 G	7006132.28	7006132.28	7006132.30	0.0088	0.0088
Mercury	14470-04-11 20:52 G	7006220.32	7006220.37	7006220.45	0.0088	0.0080
Venus	14470-04-26 23:45 G	7006235.34	7006235.49	7006235.68	0.0088	0.0055
Mercury	14470-07-08 23:16 G	7006308.38	7006308.47	7006308.56	0.0088	0.0072
Mercury	14470-10-05 01:12 G	7006396.46	7006396.55	7006396.67	0.0088	0.0065
Venus	14470-12-08 12:43 G	7006460.92	7006461.03	7006461.15	0.0088	0.0074
Mercury	14471-01-01 03:36 G	7006484.54	7006484.65	7006484.78	0.0088	0.0057
Mercury	14471-03-30 05:45 G	7006572.62	7006572.74	7006572.88	0.0088	0.0049
Mercury	14471-06-26 08:09 G	7006660.70	7006660.84	7006660.99	0.0088	0.0041
Mercury	14471-09-22 10:33 G	7006748.79	7006748.94	7006749.09	0.0088	0.0033
Mercury	14471-12-19 12:43 G	7006836.88	7006837.03	7006837.19	0.0088	0.0025
Mercury	14472-03-16 14:52 G	7006924.97	7006925.12	7006925.28	0.0088	0.0018
Mercury	14472-06-12 17:16 G	7007013.06	7007013.22	7007013.38	0.0088	0.0010
Mercury	14472-09-08 19:26 G	7007101.15	7007101.31	7007101.48	0.0088	0.0003
Mercury	14472-12-05 21:50 G	7007189.25	7007189.41	7007189.57	0.0088	0.0006
Mercury	14473-03-04 00:00 G	7007277.34	7007277.50	7007277.67	0.0088	0.0015
Mercury	14473-05-31 02:09 G	7007365.44	7007365.59	7007365.76	0.0088	0.0023
Mercury	14473-08-27 04:33 G	7007453.55	7007453.69	7007453.85	0.0088	0.0031
Mercury	14473-11-23 06:57 G	7007541.65	7007541.79	7007541.94	0.0088	0.0039
Mercury	14474-02-19 09:07 G	7007629.75	7007629.88	7007630.03	0.0088	0.0047
Mercury	14474-05-18 11:31 G	7007717.86	7007717.98	7007718.12	0.0088	0.0055
Mercury	14474-08-14 13:55 G	7007805.98	7007806.08	7007806.21	0.0088	0.0063
Mercury	14474-11-10 16:33 G	7007894.10	7007894.19	7007894.29	0.0088	0.0071
Mercury	14475-02-06 18:28 G	7007982.22	7007982.27	7007982.36	0.0088	0.0080
Mercury	14475-05-05 21:21 G	7008070.39	7008070.39	7008070.40	0.0088	0.0088
Moon	14494-11-13 13:40 G	7015201.97	7015202.07	7015202.16	0.0088	0.0081
Earth	14494-11-13 17:02 G	7015202.18	7015202.21	7015202.27	0.0088	0.0086
Earth	14495-11-16 03:21 G	7015569.56	7015569.64	7015569.78	0.0088	0.0080

Moon	14495-11-16 07:12 G	7015569.74	7015569.80	7015569.88	0.0088	0.0084 *
Moon	14496-11-17 12:14 G	7015936.86	7015937.01	7015937.17	0.0088	0.0069
Earth	14496-11-17 14:24 G	7015936.99	7015937.10	7015937.27	0.0088	0.0074 *
Earth	14497-11-20 01:40 G	7016304.43	7016304.57	7016304.76	0.0088	0.0067
Moon	14497-11-20 03:50 G	7016304.52	7016304.66	7016304.83	0.0088	0.0071 *
Moon	14498-11-22 12:28 G	7016671.84	7016672.02	7016672.23	0.0088	0.0056
Earth	14498-11-22 12:57 G	7016671.86	7016672.04	7016672.24	0.0088	0.0060 *
Moon	14499-11-24 23:45 G	7017039.30	7017039.49	7017039.70	0.0088	0.0057
Earth	14499-11-25 00:14 G	7017039.31	7017039.51	7017039.72	0.0088	0.0053 *
Earth	14500-11-27 11:02 G	7017406.76	7017406.96	7017407.20	0.0088	0.0047
Moon	14500-11-27 13:12 G	7017406.83	7017407.05	7017407.27	0.0088	0.0042 *
Moon	14501-11-29 19:26 G	7017774.09	7017774.31	7017774.55	0.0088	0.0044
Earth	14501-11-29 22:19 G	7017774.22	7017774.43	7017774.68	0.0088	0.0040 *
Earth	14502-12-02 09:21 G	7018141.67	7018141.89	7018142.15	0.0088	0.0033
Moon	14502-12-02 12:43 G	7018141.80	7018142.03	7018142.28	0.0088	0.0029 *
Moon	14503-12-04 17:16 G	7018508.98	7018509.22	7018509.47	0.0088	0.0030
Earth	14503-12-04 20:52 G	7018509.13	7018509.37	7018509.63	0.0088	0.0026 *
Earth	14504-12-06 08:09 G	7018876.60	7018876.84	7018877.10	0.0088	0.0019
Moon	14504-12-06 11:45 G	7018876.73	7018876.99	7018877.25	0.0088	0.0014 *
Moon	14505-12-08 17:02 G	7019243.96	7019244.21	7019244.46	0.0088	0.0015
Earth	14505-12-08 19:40 G	7019244.07	7019244.32	7019244.58	0.0088	0.0012 *
Earth	14506-12-11 06:57 G	7019611.54	7019611.79	7019612.05	0.0088	0.0005
Moon	14506-12-11 08:52 G	7019611.61	7019611.87	7019612.14	0.0088	0.0002 *
Moon	14507-12-13 18:28 G	7019979.02	7019979.27	7019979.52	0.0088	0.0002
Earth	14507-12-13 18:28 G	7019979.02	7019979.27	7019979.54	0.0088	0.0003 *
Moon	14508-12-15 05:45 G	7020346.48	7020346.74	7020347.01	0.0088	0.0013
Earth	14508-12-15 06:14 G	7020346.50	7020346.76	7020347.02	0.0088	0.0010 *
Earth	14509-12-17 17:45 G	7020713.99	7020714.24	7020714.50	0.0088	0.0017
Moon	14509-12-17 19:40 G	7020714.07	7020714.32	7020714.57	0.0088	0.0013 *
Moon	14510-12-20 02:24 G	7021081.36	7021081.60	7021081.86	0.0088	0.0028

Earth	14510-12-20 05:31 G	7021081.49	7021081.73	7021081.99	0.0088	0.0024 *
Earth	14511-12-22 17:16 G	7021448.99	7021449.22	7021449.47	0.0088	0.0031
Moon	14511-12-22 20:24 G	7021449.12	7021449.35	7021449.61	0.0088	0.0028 *
Moon	14512-12-24 01:26 G	7021816.35	7021816.56	7021816.80	0.0088	0.0042
Earth	14512-12-24 05:16 G	7021816.50	7021816.72	7021816.97	0.0088	0.0038 *
Earth	14513-12-26 17:02 G	7022184.00	7022184.21	7022184.45	0.0088	0.0045
Moon	14513-12-26 20:24 G	7022184.13	7022184.35	7022184.59	0.0088	0.0041 *
Moon	14514-12-29 01:55 G	7022551.40	7022551.58	7022551.80	0.0088	0.0056
Earth	14514-12-29 04:48 G	7022551.51	7022551.70	7022551.93	0.0088	0.0052 *
Earth	14515-12-31 16:33 G	7022919.02	7022919.19	7022919.41	0.0088	0.0060
Moon	14515-12-31 18:43 G	7022919.08	7022919.28	7022919.50	0.0088	0.0056 *
Earth	14517-01-02 05:02 G	7023286.54	7023286.71	7023286.89	0.0088	0.0066
Moon	14517-01-02 04:33 G	7023286.55	7023286.69	7023286.86	0.0088	0.0069 *
Moon	14518-01-04 16:19 G	7023654.03	7023654.18	7023654.36	0.0088	0.0070
Earth	14518-01-04 16:48 G	7023654.07	7023654.20	7023654.36	0.0088	0.0073 *
Earth	14519-01-07 04:19 G	7024021.60	7024021.68	7024021.83	0.0088	0.0080
Moon	14519-01-07 06:43 G	7024021.71	7024021.78	7024021.88	0.0088	0.0083 *
Moon	14520-01-09 13:26 G	7024389.00	7024389.06	7024389.19	0.0088	0.0083
Earth	14520-01-09 17:02 G	7024389.16	7024389.21	7024389.28	0.0088	0.0086 *
Mars	14528-06-10 08:38 G	7027463.57	7027463.86	7027464.18	0.0089	0.0012
Mars	14530-05-05 15:07 G	7028157.98	7028158.13	7028158.33	0.0089	0.0073
Venus	14549-05-12 01:26 G	7035104.44	7035104.56	7035104.71	0.0089	0.0070
Jupiter	14549-05-15 07:12 G	7035107.34	7035107.80	7035108.33	0.0089	0.0030
Venus	14549-12-23 14:52 G	7035329.95	7035330.12	7035330.32	0.0089	0.0050
Venus	14550-08-06 04:19 G	7035555.48	7035555.68	7035555.90	0.0089	0.0029
Venus	14551-03-19 17:45 G	7035781.03	7035781.24	7035781.46	0.0089	0.0009
Venus	14551-10-31 06:57 G	7036006.58	7036006.79	7036007.01	0.0089	0.0011
Venus	14552-06-12 20:09 G	7036232.14	7036232.34	7036232.55	0.0089	0.0032
Mercury	14553-01-15 16:48 G	7036449.18	7036449.20	7036449.27	0.0089	0.0086
Venus	14553-01-24 09:36 G	7036457.73	7036457.90	7036458.09	0.0089	0.0052

Mercury	14553-04-13 18:57 G	7036537.23	7036537.29	7036537.39	0.0089	0.0078
Mercury	14553-07-10 21:07 G	7036625.30	7036625.38	7036625.49	0.0089	0.0069
Venus	14553-09-06 22:48 G	7036683.33	7036683.45	7036683.59	0.0089	0.0072
Mercury	14553-10-06 23:31 G	7036713.37	7036713.48	7036713.59	0.0089	0.0061
Mercury	14554-01-03 01:40 G	7036801.44	7036801.57	7036801.69	0.0089	0.0053
Mercury	14554-04-01 03:21 G	7036889.52	7036889.64	7036889.79	0.0089	0.0045
Mercury	14554-06-28 05:31 G	7036977.60	7036977.73	7036977.88	0.0089	0.0037
Mercury	14554-09-24 07:40 G	7037065.68	7037065.82	7037065.97	0.0089	0.0029
Mercury	14554-12-21 09:36 G	7037153.76	7037153.90	7037154.06	0.0089	0.0022
Mercury	14555-03-19 11:45 G	7037241.84	7037241.99	7037242.14	0.0089	0.0013
Mercury	14555-06-15 13:55 G	7037329.92	7037330.08	7037330.23	0.0089	0.0006
Mercury	14555-09-11 15:50 G	7037418.01	7037418.16	7037418.31	0.0089	0.0003
Mercury	14555-12-08 17:45 G	7037506.09	7037506.24	7037506.40	0.0089	0.0010
Mercury	14556-03-05 19:40 G	7037594.18	7037594.32	7037594.47	0.0089	0.0018
Mercury	14556-06-01 21:50 G	7037682.26	7037682.41	7037682.55	0.0089	0.0026
Mercury	14556-08-28 23:45 G	7037770.35	7037770.49	7037770.63	0.0089	0.0033
Mercury	14556-11-25 01:26 G	7037858.44	7037858.56	7037858.71	0.0089	0.0042
Mercury	14557-02-21 03:36 G	7037946.53	7037946.65	7037946.78	0.0089	0.0049
Mercury	14557-05-20 05:16 G	7038034.62	7038034.72	7038034.85	0.0089	0.0057
Mercury	14557-08-16 07:12 G	7038122.71	7038122.80	7038122.92	0.0089	0.0064
Mercury	14557-11-12 09:21 G	7038210.81	7038210.89	7038210.98	0.0089	0.0072
Mercury	14558-02-08 11:02 G	7038298.91	7038298.96	7038299.04	0.0089	0.0079
Mercury	14558-05-07 12:57 G	7038387.02	7038387.04	7038387.09	0.0089	0.0087
Earth	14576-05-16 21:21 G	7044971.39	7044971.39	7044971.41	0.0089	0.0089
Earth	14577-05-19 09:50 G	7045338.82	7045338.91	7045339.01	0.0089	0.0083
Moon	14577-05-19 12:43 G	7045338.93	7045339.03	7045339.18	0.0089	0.0079 *
Moon	14578-05-21 18:14 G	7045706.18	7045706.26	7045706.39	0.0089	0.0082
Earth	14578-05-21 22:04 G	7045706.31	7045706.42	7045706.58	0.0089	0.0077 *
Earth	14579-05-24 10:33 G	7046073.80	7046073.94	7046074.12	0.0089	0.0070
Moon	14579-05-24 13:55 G	7046073.91	7046074.08	7046074.27	0.0089	0.0065 *

Moon	14580-05-25 19:55 G	7046441.20	7046441.33	7046441.53	0.0089	0.0068
Earth	14580-05-25 22:48 G	7046441.29	7046441.45	7046441.65	0.0089	0.0063 *
Earth	14581-05-28 11:16 G	7046808.78	7046808.97	7046809.18	0.0089	0.0056
Moon	14581-05-28 12:57 G	7046808.83	7046809.04	7046809.26	0.0089	0.0051 *
Earth	14582-05-30 23:31 G	7047176.28	7047176.48	7047176.71	0.0089	0.0049
Moon	14582-05-30 23:45 G	7047176.29	7047176.49	7047176.69	0.0089	0.0053 *
Moon	14583-06-02 10:48 G	7047543.73	7047543.95	7047544.21	0.0089	0.0038
Earth	14583-06-02 11:45 G	7047543.77	7047543.99	7047544.23	0.0089	0.0042 *
Earth	14584-06-03 23:45 G	7047911.27	7047911.49	7047911.74	0.0089	0.0034
Moon	14584-06-04 01:40 G	7047911.37	7047911.57	7047911.82	0.0089	0.0040 *
Moon	14585-06-06 08:52 G	7048278.63	7048278.87	7048279.13	0.0089	0.0023
Earth	14585-06-06 11:45 G	7048278.76	7048278.99	7048279.25	0.0089	0.0028 *
Earth	14586-06-09 00:14 G	7048646.26	7048646.51	7048646.76	0.0089	0.0020
Moon	14586-06-09 03:07 G	7048646.40	7048646.63	7048646.89	0.0089	0.0025 *
Moon	14587-06-11 08:38 G	7049013.61	7049013.86	7049014.12	0.0089	0.0008
Earth	14587-06-11 12:28 G	7049013.77	7049014.02	7049014.28	0.0089	0.0013 *
Earth	14588-06-13 00:14 G	7049381.26	7049381.51	7049381.77	0.0089	0.0005
Moon	14588-06-13 03:21 G	7049381.39	7049381.64	7049381.90	0.0089	0.0010 *
Moon	14589-06-15 09:36 G	7049748.65	7049748.90	7049749.15	0.0089	0.0006
Earth	14589-06-15 12:28 G	7049748.76	7049749.02	7049749.27	0.0089	0.0002 *
Earth	14590-06-18 00:14 G	7050116.25	7050116.51	7050116.76	0.0089	0.0009
Moon	14590-06-18 01:40 G	7050116.31	7050116.57	7050116.84	0.0089	0.0005 *
Earth	14591-06-20 11:45 G	7050483.74	7050483.99	7050484.25	0.0089	0.0017
Moon	14591-06-20 11:45 G	7050483.75	7050483.99	7050484.23	0.0089	0.0020 *
Moon	14592-06-21 22:33 G	7050851.20	7050851.44	7050851.71	0.0089	0.0020
Earth	14592-06-21 23:31 G	7050851.23	7050851.48	7050851.73	0.0089	0.0024 *
Earth	14593-06-24 11:02 G	7051218.72	7051218.96	7051219.20	0.0089	0.0031
Moon	14593-06-24 12:43 G	7051218.82	7051219.03	7051219.28	0.0089	0.0035 *
Moon	14594-06-26 19:26 G	7051586.07	7051586.31	7051586.55	0.0089	0.0033
Earth	14594-06-26 22:04 G	7051586.21	7051586.42	7051586.67	0.0089	0.0038 *



Earth	14595-06-29 09:50 G	7051953.69	7051953.91	7051954.14	0.0089	0.0045
Moon	14595-06-29 12:57 G	7051953.84	7051954.04	7051954.27	0.0089	0.0049 *
Moon	14596-06-30 17:16 G	7052321.02	7052321.22	7052321.45	0.0089	0.0048
Earth	14596-06-30 21:21 G	7052321.18	7052321.39	7052321.60	0.0089	0.0052 *
Earth	14597-07-03 08:24 G	7052688.67	7052688.85	7052689.05	0.0089	0.0058
Moon	14597-07-03 11:16 G	7052688.80	7052688.97	7052689.17	0.0089	0.0062 *
Moon	14598-07-05 16:48 G	7053056.05	7053056.20	7053056.41	0.0089	0.0063
Earth	14598-07-05 19:40 G	7053056.17	7053056.32	7053056.51	0.0089	0.0065 *
Earth	14599-07-08 06:43 G	7053423.66	7053423.78	7053423.96	0.0089	0.0072
Moon	14599-07-08 08:24 G	7053423.73	7053423.85	7053424.00	0.0089	0.0075 *
Moon	14600-07-10 18:14 G	7053791.15	7053791.26	7053791.41	0.0089	0.0075
Earth	14600-07-10 18:14 G	7053791.16	7053791.26	7053791.40	0.0089	0.0078 *
Moon	14601-07-13 04:19 G	7054158.67	7054158.68	7054158.76	0.0089	0.0088
Earth	14601-07-13 06:00 G	7054158.67	7054158.75	7054158.83	0.0089	0.0084 *
Moon	14602-07-15 18:57 G	7054526.26	7054526.29	7054526.35	0.0089	0.0087
Mars	14608-03-29 19:26 G	7056610.22	7056610.31	7056610.47	0.0089	0.0082
Mars	14610-02-23 00:57 G	7057305.23	7057305.54	7057305.87	0.0089	0.0009
Venus	14630-11-16 06:00 G	7064876.62	7064876.75	7064876.89	0.0088	0.0069
Venus	14631-06-29 18:43 G	7065102.11	7065102.28	7065102.47	0.0088	0.0050
Venus	14632-02-10 07:12 G	7065327.61	7065327.80	7065328.02	0.0088	0.0032
Venus	14632-09-22 19:55 G	7065553.12	7065553.33	7065553.56	0.0088	0.0013
Venus	14633-05-06 08:38 G	7065778.65	7065778.86	7065779.09	0.0088	0.0008
Venus	14633-12-17 21:21 G	7066004.19	7066004.39	7066004.61	0.0088	0.0027
Venus	14634-07-31 10:04 G	7066229.74	7066229.92	7066230.12	0.0088	0.0046
Mercury	14634-10-12 17:31 G	7066303.21	7066303.23	7066303.29	0.0088	0.0086
Mercury	14635-01-08 19:55 G	7066391.26	7066391.33	7066391.41	0.0088	0.0077
Venus	14635-03-13 22:48 G	7066455.31	7066455.45	7066455.60	0.0088	0.0066
Mercury	14635-04-06 21:50 G	7066479.33	7066479.41	7066479.52	0.0088	0.0070
Mercury	14635-07-04 00:14 G	7066567.41	7066567.51	7066567.63	0.0088	0.0062
Mercury	14635-09-30 02:38 G	7066655.49	7066655.61	7066655.74	0.0088	0.0054

Venus	14635-10-25 11:02 G	7066680.93	7066680.96	7066681.04	0.0088	0.0085
Mercury	14635-12-27 04:48 G	7066743.57	7066743.70	7066743.84	0.0088	0.0047
Mercury	14636-03-24 06:57 G	7066831.65	7066831.79	7066831.94	0.0088	0.0039
Mercury	14636-06-20 09:07 G	7066919.74	7066919.88	7066920.04	0.0088	0.0031
Mercury	14636-09-16 11:31 G	7067007.83	7067007.98	7067008.14	0.0088	0.0023
Mercury	14636-12-13 13:40 G	7067095.92	7067096.07	7067096.23	0.0088	0.0015
Mercury	14637-03-11 16:04 G	7067184.01	7067184.17	7067184.33	0.0088	0.0007
Mercury	14637-06-07 18:14 G	7067272.10	7067272.26	7067272.43	0.0088	0.0002
Mercury	14637-09-03 20:38 G	7067360.20	7067360.36	7067360.52	0.0088	0.0009
Mercury	14637-11-30 22:48 G	7067448.29	7067448.45	7067448.61	0.0088	0.0017
Mercury	14638-02-27 00:57 G	7067536.39	7067536.54	7067536.71	0.0088	0.0025
Mercury	14638-05-26 03:21 G	7067624.49	7067624.64	7067624.80	0.0088	0.0033
Mercury	14638-08-22 05:45 G	7067712.60	7067712.74	7067712.89	0.0088	0.0041
Mercury	14638-11-18 08:09 G	7067800.71	7067800.84	7067800.98	0.0088	0.0049
Mercury	14639-02-14 10:33 G	7067888.82	7067888.94	7067889.06	0.0088	0.0057
Mercury	14639-05-13 12:28 G	7067976.93	7067977.02	7067977.15	0.0088	0.0066
Mercury	14639-08-09 14:52 G	7068065.05	7068065.12	7068065.22	0.0088	0.0074
Mercury	14639-11-05 17:16 G	7068153.18	7068153.22	7068153.29	0.0088	0.0082
Earth	14658-11-15 01:40 G	7075102.53	7075102.57	7075102.63	0.0088	0.0086
Moon	14658-11-15 04:48 G	7075102.69	7075102.70	7075102.76	0.0088	0.0087
Moon	14659-11-17 09:50 G	7075469.85	7075469.91	7075470.04	0.0088	0.0081
Earth	14659-11-17 12:28 G	7075469.93	7075470.02	7075470.14	0.0088	0.0080 *
Earth	14660-11-18 23:02 G	7075837.35	7075837.46	7075837.62	0.0088	0.0074
Moon	14660-11-19 00:43 G	7075837.40	7075837.53	7075837.68	0.0088	0.0074 *
Moon	14661-11-21 09:50 G	7076204.76	7076204.91	7076205.08	0.0088	0.0067
Earth	14661-11-21 09:50 G	7076204.77	7076204.91	7076205.10	0.0088	0.0068 *
Moon	14662-11-23 19:26 G	7076572.14	7076572.31	7076572.52	0.0088	0.0061
Earth	14662-11-23 21:21 G	7076572.21	7076572.39	7076572.58	0.0088	0.0061 *
Earth	14663-11-26 07:55 G	7076939.65	7076939.83	7076940.06	0.0088	0.0055
Moon	14663-11-26 10:04 G	7076939.75	7076939.92	7076940.14	0.0088	0.0055 *

Moon	14664-11-27 16:19 G	7077306.97	7077307.18	7077307.41	0.0088	0.0049
Earth	14664-11-27 19:26 G	7077307.11	7077307.31	7077307.54	0.0088	0.0048 *
Earth	14665-11-30 06:14 G	7077674.56	7077674.76	7077675.01	0.0088	0.0042
Moon	14665-11-30 10:19 G	7077674.71	7077674.93	7077675.17	0.0088	0.0041 *
Moon	14666-12-02 14:09 G	7078041.88	7078042.09	7078042.35	0.0088	0.0036
Earth	14666-12-02 17:45 G	7078042.02	7078042.24	7078042.49	0.0088	0.0035 *
Earth	14667-12-05 05:02 G	7078409.47	7078409.71	7078409.96	0.0088	0.0028
Moon	14667-12-05 08:38 G	7078409.61	7078409.86	7078410.11	0.0088	0.0026 *
Moon	14668-12-06 14:24 G	7078776.86	7078777.10	7078777.35	0.0088	0.0022
Earth	14668-12-06 16:33 G	7078776.94	7078777.19	7078777.44	0.0088	0.0021 *
Earth	14669-12-09 03:36 G	7079144.40	7079144.65	7079144.91	0.0088	0.0014
Moon	14669-12-09 04:48 G	7079144.44	7079144.70	7079144.97	0.0088	0.0013 *
Earth	14670-12-11 14:52 G	7079511.87	7079512.12	7079512.38	0.0088	0.0008
Moon	14670-12-11 14:52 G	7079511.87	7079512.12	7079512.37	0.0088	0.0009 *
Moon	14671-12-14 00:43 G	7079879.26	7079879.53	7079879.80	0.0088	0.0001
Earth	14671-12-14 02:24 G	7079879.34	7079879.60	7079879.86	0.0088	0.0001 *
Earth	14672-12-15 13:40 G	7080246.81	7080247.07	7080247.33	0.0088	0.0006
Moon	14672-12-15 16:04 G	7080246.92	7080247.17	7080247.42	0.0088	0.0005 *
Moon	14673-12-17 21:50 G	7080614.16	7080614.41	7080614.68	0.0088	0.0015
Earth	14673-12-18 01:12 G	7080614.30	7080614.55	7080614.81	0.0088	0.0013 *
Earth	14674-12-20 12:43 G	7080981.78	7080982.03	7080982.29	0.0088	0.0020
Moon	14674-12-20 16:19 G	7080981.94	7080982.18	7080982.44	0.0088	0.0019 *
Moon	14675-12-22 20:52 G	7081349.14	7081349.37	7081349.63	0.0088	0.0029
Earth	14675-12-23 00:28 G	7081349.28	7081349.52	7081349.78	0.0088	0.0027 *
Earth	14676-12-24 12:00 G	7081716.78	7081717.00	7081717.26	0.0088	0.0034
Moon	14676-12-24 15:36 G	7081716.91	7081717.15	7081717.41	0.0088	0.0031 *
Moon	14677-12-26 22:04 G	7082084.21	7082084.42	7082084.65	0.0088	0.0043
Earth	14677-12-26 23:45 G	7082084.28	7082084.49	7082084.74	0.0088	0.0041 *
Earth	14678-12-29 12:00 G	7082451.79	7082452.00	7082452.22	0.0088	0.0048
Moon	14678-12-29 12:57 G	7082451.83	7082452.04	7082452.29	0.0088	0.0045 *

Earth	14679-12-31 23:45 G	7082819.30	7082819.49	7082819.71	0.0088	0.0054
Moon	14679-12-31 23:31 G	7082819.31	7082819.48	7082819.70	0.0088	0.0058 *
Moon	14681-01-02 09:50 G	7083186.73	7083186.91	7083187.13	0.0088	0.0059
Earth	14681-01-02 11:31 G	7083186.82	7083186.98	7083187.19	0.0088	0.0061 *
Earth	14682-01-04 23:45 G	7083554.34	7083554.49	7083554.67	0.0088	0.0067
Moon	14682-01-05 01:40 G	7083554.44	7083554.57	7083554.75	0.0088	0.0070 *
Moon	14683-01-07 08:09 G	7083921.71	7083921.84	7083922.03	0.0088	0.0072
Earth	14683-01-07 11:31 G	7083921.87	7083921.98	7083922.15	0.0088	0.0074 *
Earth	14684-01-09 23:31 G	7084289.40	7084289.48	7084289.62	0.0088	0.0081
Moon	14684-01-10 03:36 G	7084289.57	7084289.65	7084289.75	0.0088	0.0083 *
Moon	14685-01-11 08:38 G	7084656.79	7084656.86	7084656.96	0.0088	0.0084
Earth	14685-01-11 12:00 G	7084656.97	7084657.00	7084657.07	0.0088	0.0087
Mars	14692-01-25 05:02 G	7087226.48	7087226.71	7087226.99	0.0089	0.0049
Mars	14693-12-19 13:55 G	7087920.81	7087921.08	7087921.37	0.0089	0.0037
Venus	14713-08-15 10:33 G	7095098.87	7095098.94	7095099.07	0.0089	0.0080
Venus	14714-03-29 00:00 G	7095324.35	7095324.50	7095324.68	0.0089	0.0059
Venus	14714-11-09 13:40 G	7095549.87	7095550.07	7095550.27	0.0089	0.0039
Venus	14715-06-23 02:52 G	7095775.41	7095775.62	7095775.84	0.0089	0.0019
Jupiter	14715-07-13 04:04 G	7095795.33	7095795.67	7095796.06	0.0089	0.0064
Venus	14716-02-03 16:19 G	7096000.96	7096001.18	7096001.40	0.0089	0.0002
Venus	14716-09-16 05:31 G	7096226.52	7096226.73	7096226.95	0.0089	0.0022
Venus	14717-04-29 18:43 G	7096452.10	7096452.28	7096452.49	0.0089	0.0042
Mercury	14717-10-14 16:04 G	7096620.12	7096620.17	7096620.23	0.0089	0.0083
Venus	14717-12-11 07:55 G	7096677.69	7096677.83	7096678.01	0.0089	0.0063
Mercury	14718-01-10 18:14 G	7096708.18	7096708.26	7096708.35	0.0089	0.0075
Mercury	14718-04-08 20:24 G	7096796.25	7096796.35	7096796.46	0.0089	0.0067
Mercury	14718-07-05 22:19 G	7096884.32	7096884.43	7096884.56	0.0089	0.0059
Venus	14718-07-24 21:07 G	7096903.32	7096903.38	7096903.49	0.0089	0.0083
Mercury	14718-10-02 00:28 G	7096972.40	7096972.52	7096972.65	0.0089	0.0051
Mercury	14718-12-29 02:38 G	7097060.48	7097060.61	7097060.75	0.0089	0.0042

Mercury	14719-03-27 04:48 G	7097148.56	7097148.70	7097148.84	0.0089	0.0034
Mercury	14719-06-23 06:43 G	7097236.64	7097236.78	7097236.93	0.0089	0.0027
Mercury	14719-09-19 08:52 G	7097324.72	7097324.87	7097325.02	0.0089	0.0019
Mercury	14719-12-16 10:48 G	7097412.80	7097412.95	7097413.11	0.0089	0.0011
Mercury	14720-03-13 12:57 G	7097500.89	7097501.04	7097501.19	0.0089	0.0003
Mercury	14720-06-09 14:52 G	7097588.97	7097589.12	7097589.27	0.0089	0.0005
Mercury	14720-09-05 16:48 G	7097677.05	7097677.20	7097677.36	0.0089	0.0013
Mercury	14720-12-02 18:57 G	7097765.14	7097765.29	7097765.44	0.0089	0.0020
Mercury	14721-02-28 20:52 G	7097853.23	7097853.37	7097853.52	0.0089	0.0028
Mercury	14721-05-27 22:33 G	7097941.31	7097941.44	7097941.59	0.0089	0.0037
Mercury	14721-08-24 00:43 G	7098029.40	7098029.53	7098029.67	0.0089	0.0044
Mercury	14721-11-20 02:38 G	7098117.49	7098117.61	7098117.74	0.0089	0.0051
Mercury	14722-02-16 04:19 G	7098205.58	7098205.68	7098205.81	0.0089	0.0060
Mercury	14722-05-15 06:28 G	7098293.68	7098293.77	7098293.88	0.0089	0.0067
Mercury	14722-08-11 08:09 G	7098381.77	7098381.84	7098381.94	0.0089	0.0075
Mercury	14722-11-07 10:19 G	7098469.88	7098469.93	7098470.00	0.0089	0.0082
Mercury	14723-02-03 12:14 G	7098558.01	7098558.01	7098558.03	0.0089	0.0089
Moon	14741-05-20 13:26 G	7105238.98	7105239.06	7105239.17	0.0089	0.0083
Earth	14741-05-20 16:33 G	7105239.12	7105239.19	7105239.30	0.0089	0.0084 *
Earth	14742-05-23 05:31 G	7105606.61	7105606.73	7105606.86	0.0089	0.0077
Moon	14742-05-23 08:09 G	7105606.74	7105606.84	7105607.00	0.0089	0.0078 *
Moon	14743-05-25 16:04 G	7105974.03	7105974.17	7105974.34	0.0089	0.0070
Earth	14743-05-25 17:31 G	7105974.10	7105974.23	7105974.41	0.0089	0.0071 *
Earth	14744-05-27 06:14 G	7106341.59	7106341.76	7106341.95	0.0089	0.0064
Moon	14744-05-27 07:12 G	7106341.63	7106341.80	7106342.00	0.0089	0.0064 *
Earth	14745-05-29 18:14 G	7106709.09	7106709.26	7106709.48	0.0089	0.0058
Moon	14745-05-29 18:28 G	7106709.10	7106709.27	7106709.48	0.0089	0.0058 *
Moon	14746-06-01 04:33 G	7107076.50	7107076.69	7107076.93	0.0089	0.0052
Earth	14746-06-01 06:43 G	7107076.58	7107076.78	7107077.01	0.0089	0.0051 *
Earth	14747-06-03 18:57 G	7107444.08	7107444.29	7107444.53	0.0089	0.0044

Moon	14747-06-03 21:21 G	7107444.18	7107444.39	7107444.62	0.0089	0.0044 *
Moon	14748-06-05 03:36 G	7107811.43	7107811.65	7107811.90	0.0089	0.0037
Earth	14748-06-05 06:57 G	7107811.57	7107811.79	7107812.04	0.0089	0.0037 *
Earth	14749-06-07 19:12 G	7108179.07	7108179.30	7108179.55	0.0089	0.0030
Moon	14749-06-07 22:48 G	7108179.22	7108179.45	7108179.70	0.0089	0.0030 *
Moon	14750-06-10 04:19 G	7108546.43	7108546.68	7108546.92	0.0089	0.0022
Earth	14750-06-10 07:26 G	7108546.57	7108546.81	7108547.07	0.0089	0.0023 *
Earth	14751-06-12 19:26 G	7108914.06	7108914.31	7108914.57	0.0089	0.0015
Moon	14751-06-12 22:33 G	7108914.19	7108914.44	7108914.70	0.0089	0.0017 *
Moon	14752-06-14 05:45 G	7109281.50	7109281.74	7109282.00	0.0089	0.0008
Earth	14752-06-14 07:26 G	7109281.56	7109281.81	7109282.07	0.0089	0.0009 *
Earth	14753-06-16 19:40 G	7109649.06	7109649.32	7109649.58	0.0089	0.0001
Moon	14753-06-16 20:38 G	7109649.10	7109649.36	7109649.63	0.0089	0.0003 *
Earth	14754-06-19 07:40 G	7110016.56	7110016.82	7110017.08	0.0089	0.0006
Moon	14754-06-19 07:40 G	7110016.58	7110016.82	7110017.08	0.0089	0.0008 *
Moon	14755-06-21 17:45 G	7110383.98	7110384.24	7110384.50	0.0089	0.0012
Earth	14755-06-21 19:26 G	7110384.06	7110384.31	7110384.57	0.0089	0.0013 *
Earth	14756-06-23 06:57 G	7110751.55	7110751.79	7110752.05	0.0089	0.0020
Moon	14756-06-23 09:21 G	7110751.66	7110751.89	7110752.14	0.0089	0.0021 *
Moon	14757-06-25 15:21 G	7111118.90	7111119.14	7111119.40	0.0089	0.0026
Earth	14757-06-25 18:43 G	7111119.05	7111119.28	7111119.54	0.0089	0.0027 *
Earth	14758-06-28 06:28 G	7111486.54	7111486.77	7111487.01	0.0089	0.0034
Moon	14758-06-28 10:04 G	7111486.69	7111486.92	7111487.16	0.0089	0.0035 *
Moon	14759-06-30 14:38 G	7111853.88	7111854.11	7111854.34	0.0089	0.0038
Earth	14759-06-30 17:45 G	7111854.03	7111854.24	7111854.48	0.0089	0.0041 *
Earth	14760-07-02 05:02 G	7112221.51	7112221.71	7112221.94	0.0089	0.0047
Moon	14760-07-02 08:09 G	7112221.64	7112221.84	7112222.07	0.0089	0.0049 *
Moon	14761-07-04 15:07 G	7112588.94	7112589.13	7112589.34	0.0089	0.0052
Earth	14761-07-04 16:19 G	7112589.00	7112589.18	7112589.41	0.0089	0.0055 *
Earth	14762-07-07 04:04 G	7112956.49	7112956.67	7112956.87	0.0089	0.0060

Moon	14762-07-07 05:02 G	7112956.53	7112956.71	7112956.91	0.0089	0.0062 *
Earth	14763-07-09 15:07 G	7113323.98	7113324.13	7113324.32	0.0089	0.0067
Moon	14763-07-09 15:21 G	7113324.00	7113324.14	7113324.33	0.0089	0.0065 *
Moon	14764-07-11 00:43 G	7113691.39	7113691.53	7113691.68	0.0089	0.0074
Earth	14764-07-11 02:24 G	7113691.48	7113691.60	7113691.76	0.0089	0.0073 *
Earth	14765-07-13 13:55 G	7114058.98	7114059.08	7114059.20	0.0089	0.0079
Moon	14765-07-13 16:04 G	7114059.07	7114059.17	7114059.31	0.0089	0.0077 *
Moon	14766-07-15 21:21 G	7114426.38	7114426.39	7114426.46	0.0089	0.0088
Earth	14766-07-16 01:26 G	7114426.50	7114426.56	7114426.64	0.0089	0.0085
Mars	14773-10-08 05:02 G	7117067.43	7117067.71	7117068.03	0.0089	0.0031
Mars	14775-09-03 10:33 G	7117762.72	7117762.94	7117763.19	0.0089	0.0060
Venus	14795-02-18 15:50 G	7124871.06	7124871.16	7124871.26	0.0088	0.0079
Venus	14795-10-02 04:19 G	7125096.53	7125096.68	7125096.85	0.0088	0.0059
Venus	14796-05-14 16:48 G	7125322.02	7125322.20	7125322.41	0.0088	0.0040
Venus	14796-12-26 05:31 G	7125547.53	7125547.73	7125547.96	0.0088	0.0021
Venus	14797-08-08 18:43 G	7125773.06	7125773.28	7125773.50	0.0088	0.0002
Venus	14798-03-22 07:12 G	7125998.59	7125998.80	7125999.02	0.0088	0.0018
Venus	14798-11-02 19:40 G	7126224.13	7126224.32	7126224.53	0.0088	0.0037
Venus	14799-06-16 08:38 G	7126449.69	7126449.86	7126450.03	0.0088	0.0057
Mercury	14799-07-10 16:19 G	7126474.15	7126474.18	7126474.25	0.0088	0.0083
Mercury	14799-10-06 18:43 G	7126562.21	7126562.28	7126562.37	0.0088	0.0075
Mercury	14800-01-02 21:07 G	7126650.28	7126650.38	7126650.48	0.0088	0.0067
Venus	14800-01-27 20:52 G	7126675.28	7126675.37	7126675.50	0.0088	0.0076
Mercury	14800-03-30 23:02 G	7126738.35	7126738.46	7126738.59	0.0088	0.0060
Mercury	14800-06-27 01:12 G	7126826.43	7126826.55	7126826.69	0.0088	0.0052
Mercury	14800-09-23 03:36 G	7126914.51	7126914.65	7126914.79	0.0088	0.0044
Mercury	14800-12-20 05:31 G	7127002.60	7127002.73	7127002.89	0.0088	0.0037
Mercury	14801-03-18 07:55 G	7127090.68	7127090.83	7127090.99	0.0088	0.0029
Mercury	14801-06-14 10:04 G	7127178.77	7127178.92	7127179.09	0.0088	0.0021
Mercury	14801-09-10 12:28 G	7127266.86	7127267.02	7127267.18	0.0088	0.0013

Mercury	14801-12-07 14:38 G	7127354.95	7127355.11	7127355.28	0.0088	0.0006
Mercury	14802-03-05 17:02 G	7127443.05	7127443.21	7127443.37	0.0088	0.0003
Mercury	14802-06-01 19:12 G	7127531.14	7127531.30	7127531.47	0.0088	0.0011
Mercury	14802-08-28 21:36 G	7127619.24	7127619.40	7127619.56	0.0088	0.0019
Mercury	14802-11-24 23:45 G	7127707.34	7127707.49	7127707.65	0.0088	0.0027
Mercury	14803-02-21 02:09 G	7127795.44	7127795.59	7127795.74	0.0088	0.0035
Mercury	14803-05-20 04:19 G	7127883.55	7127883.68	7127883.83	0.0088	0.0043
Mercury	14803-08-16 06:43 G	7127971.65	7127971.78	7127971.92	0.0088	0.0051
Mercury	14803-11-12 09:07 G	7128059.76	7128059.88	7128060.00	0.0088	0.0059
Mercury	14804-02-08 11:02 G	7128147.88	7128147.96	7128148.09	0.0088	0.0068
Mercury	14804-05-06 13:26 G	7128236.00	7128236.06	7128236.16	0.0088	0.0076
Mercury	14804-08-02 16:04 G	7128324.13	7128324.17	7128324.22	0.0088	0.0084
Moon	14821-11-13 00:57 G	7134635.54	7134635.54	7134635.58	0.0088	0.0088
Earth	14822-11-15 09:21 G	7135002.85	7135002.89	7135002.95	0.0088	0.0086
Moon	14823-11-17 20:24 G	7135370.24	7135370.35	7135370.50	0.0088	0.0076
Earth	14823-11-17 19:40 G	7135370.25	7135370.32	7135370.45	0.0088	0.0081 *
Earth	14824-11-19 06:14 G	7135737.66	7135737.76	7135737.93	0.0088	0.0075
Moon	14824-11-19 07:12 G	7135737.72	7135737.80	7135737.93	0.0088	0.0079 *
Moon	14825-11-21 15:50 G	7136105.00	7136105.16	7136105.36	0.0088	0.0064
Earth	14825-11-21 17:02 G	7136105.08	7136105.21	7136105.40	0.0088	0.0069 *
Earth	14826-11-24 04:19 G	7136472.51	7136472.68	7136472.87	0.0088	0.0062
Moon	14826-11-24 07:12 G	7136472.65	7136472.80	7136472.98	0.0088	0.0067 *
Moon	14827-11-26 11:45 G	7136839.80	7136839.99	7136840.22	0.0088	0.0052
Earth	14827-11-26 15:21 G	7136839.96	7136840.14	7136840.35	0.0088	0.0056 *
Earth	14828-11-28 02:09 G	7137207.40	7137207.59	7137207.83	0.0088	0.0050
Moon	14828-11-28 06:00 G	7137207.56	7137207.75	7137207.96	0.0088	0.0054 *
Moon	14829-11-30 10:04 G	7137574.71	7137574.92	7137575.16	0.0088	0.0039
Earth	14829-11-30 13:40 G	7137574.85	7137575.07	7137575.30	0.0088	0.0043 *
Earth	14830-12-03 00:43 G	7137942.31	7137942.53	7137942.78	0.0088	0.0037
Moon	14830-12-03 03:07 G	7137942.41	7137942.63	7137942.88	0.0088	0.0041 *



Moon	14831-12-05 10:19 G	7138309.70	7138309.93	7138310.18	0.0088	0.0026
Earth	14831-12-05 12:14 G	7138309.77	7138310.01	7138310.26	0.0088	0.0030 *
Earth	14832-12-06 23:16 G	7138677.23	7138677.47	7138677.73	0.0088	0.0024
Moon	14832-12-06 23:31 G	7138677.24	7138677.48	7138677.75	0.0088	0.0028 *
Earth	14833-12-09 10:33 G	7139044.70	7139044.94	7139045.21	0.0088	0.0017
Moon	14833-12-09 11:31 G	7139044.74	7139044.98	7139045.24	0.0088	0.0013 *
Moon	14834-12-11 20:09 G	7139412.09	7139412.34	7139412.61	0.0088	0.0015
Earth	14834-12-11 22:04 G	7139412.17	7139412.42	7139412.68	0.0088	0.0010 *
Earth	14835-12-14 09:21 G	7139779.64	7139779.89	7139780.15	0.0088	0.0004
Moon	14835-12-14 12:28 G	7139779.77	7139780.02	7139780.28	0.0088	0.0002 *
Moon	14836-12-15 17:31 G	7140146.97	7140147.23	7140147.49	0.0088	0.0001
Earth	14836-12-15 20:52 G	7140147.11	7140147.37	7140147.63	0.0088	0.0003 *
Earth	14837-12-18 07:55 G	7140514.58	7140514.83	7140515.10	0.0088	0.0011
Moon	14837-12-18 11:45 G	7140514.74	7140514.99	7140515.25	0.0088	0.0014 *
Moon	14838-12-20 16:19 G	7140881.94	7140882.18	7140882.44	0.0088	0.0012
Earth	14838-12-20 19:55 G	7140882.07	7140882.33	7140882.58	0.0088	0.0017 *
Earth	14839-12-23 07:12 G	7141249.56	7141249.80	7141250.06	0.0088	0.0023
Moon	14839-12-23 09:36 G	7141249.66	7141249.90	7141250.17	0.0088	0.0028 *
Moon	14840-12-24 16:48 G	7141616.98	7141617.20	7141617.46	0.0088	0.0026
Earth	14840-12-24 18:43 G	7141617.05	7141617.28	7141617.54	0.0088	0.0030 *
Earth	14841-12-27 06:43 G	7141984.55	7141984.78	7141985.02	0.0088	0.0036
Moon	14841-12-27 06:28 G	7141984.55	7141984.77	7141985.03	0.0088	0.0041 *
Earth	14842-12-29 18:14 G	7142352.05	7142352.26	7142352.50	0.0088	0.0044
Moon	14842-12-29 19:26 G	7142352.09	7142352.31	7142352.54	0.0088	0.0039 *
Moon	14844-01-01 04:33 G	7142719.49	7142719.69	7142719.91	0.0088	0.0054
Earth	14844-01-01 06:28 G	7142719.56	7142719.77	7142719.99	0.0088	0.0050 *
Earth	14845-01-02 18:00 G	7143087.07	7143087.25	7143087.47	0.0088	0.0057
Moon	14845-01-02 21:36 G	7143087.20	7143087.40	7143087.61	0.0088	0.0052 *
Moon	14846-01-05 02:52 G	7143454.46	7143454.62	7143454.80	0.0088	0.0067
Earth	14846-01-05 06:14 G	7143454.59	7143454.76	7143454.96	0.0088	0.0062 *

Earth	14847-01-07 18:14 G	7143822.11	7143822.26	7143822.43	0.0088	0.0069
Moon	14847-01-07 22:04 G	7143822.25	7143822.42	7143822.60	0.0088	0.0065 *
Moon	14848-01-10 02:52 G	7144189.53	7144189.62	7144189.75	0.0088	0.0080
Earth	14848-01-10 06:28 G	7144189.64	7144189.77	7144189.91	0.0088	0.0075 *
Earth	14849-01-11 17:45 G	7144557.17	7144557.24	7144557.37	0.0088	0.0082
Moon	14849-01-11 20:24 G	7144557.25	7144557.35	7144557.51	0.0088	0.0078 *
Earth	14850-01-14 06:43 G	7144924.73	7144924.78	7144924.82	0.0088	0.0087
Mars	14855-09-09 21:07 G	7146989.35	7146989.38	7146989.47	0.0089	0.0087
Mars	14857-08-04 08:38 G	7147683.55	7147683.86	7147684.17	0.0089	0.0001
Mars	14859-06-29 15:50 G	7148378.10	7148378.16	7148378.30	0.0089	0.0084
Venus	14877-11-16 19:40 G	7155093.32	7155093.32	7155093.35	0.0089	0.0089
Venus	14878-06-30 08:52 G	7155318.75	7155318.87	7155319.03	0.0089	0.0069
Venus	14879-02-10 22:04 G	7155544.26	7155544.42	7155544.63	0.0089	0.0050
Venus	14879-09-24 11:45 G	7155769.79	7155769.99	7155770.21	0.0089	0.0029
Venus	14880-05-07 01:12 G	7155995.33	7155995.55	7155995.77	0.0089	0.0008
Venus	14880-12-18 14:24 G	7156220.89	7156221.10	7156221.33	0.0089	0.0012
Venus	14881-08-01 03:36 G	7156446.46	7156446.65	7156446.87	0.0089	0.0032
Venus	14882-03-14 16:48 G	7156672.04	7156672.20	7156672.40	0.0089	0.0053
Mercury	14882-04-14 12:43 G	7156703.03	7156703.03	7156703.04	0.0089	0.0089
Mercury	14882-07-11 14:38 G	7156791.06	7156791.11	7156791.19	0.0089	0.0081
Mercury	14882-10-07 16:48 G	7156879.13	7156879.20	7156879.30	0.0089	0.0073
Venus	14882-10-26 06:00 G	7156897.64	7156897.75	7156897.90	0.0089	0.0073
Mercury	14883-01-03 19:12 G	7156967.20	7156967.30	7156967.41	0.0089	0.0065
Mercury	14883-04-01 21:21 G	7157055.27	7157055.39	7157055.51	0.0089	0.0057
Mercury	14883-06-28 23:31 G	7157143.35	7157143.48	7157143.61	0.0089	0.0049
Mercury	14883-09-25 01:26 G	7157231.43	7157231.56	7157231.70	0.0089	0.0041
Mercury	14883-12-22 03:36 G	7157319.51	7157319.65	7157319.80	0.0089	0.0033
Mercury	14884-03-19 05:45 G	7157407.59	7157407.74	7157407.89	0.0089	0.0025
Mercury	14884-06-15 07:40 G	7157495.67	7157495.82	7157495.97	0.0089	0.0017
Mercury	14884-09-11 09:50 G	7157583.76	7157583.91	7157584.06	0.0089	0.0009

Mercury	14884-12-08 11:45 G	7157671.84	7157671.99	7157672.15	0.0089	0.0002
Mercury	14885-03-06 13:55 G	7157759.92	7157760.08	7157760.23	0.0089	0.0007
Mercury	14885-06-02 15:50 G	7157848.01	7157848.16	7157848.31	0.0089	0.0015
Mercury	14885-08-29 17:45 G	7157936.10	7157936.24	7157936.39	0.0089	0.0023
Mercury	14885-11-25 19:40 G	7158024.18	7158024.32	7158024.47	0.0089	0.0030
Mercury	14886-02-21 21:36 G	7158112.27	7158112.40	7158112.55	0.0089	0.0038
Mercury	14886-05-20 23:45 G	7158200.36	7158200.49	7158200.62	0.0089	0.0046
Mercury	14886-08-17 01:26 G	7158288.45	7158288.56	7158288.69	0.0089	0.0054
Mercury	14886-11-13 03:36 G	7158376.54	7158376.65	7158376.76	0.0089	0.0061
Mercury	14887-02-09 05:16 G	7158464.64	7158464.72	7158464.83	0.0089	0.0069
Mercury	14887-05-08 07:12 G	7158552.74	7158552.80	7158552.89	0.0089	0.0076
Mercury	14887-08-04 09:21 G	7158640.84	7158640.89	7158640.94	0.0089	0.0084
Moon	14904-05-18 06:43 G	7164771.73	7164771.78	7164771.87	0.0089	0.0086
Earth	14905-05-20 22:19 G	7165139.37	7165139.43	7165139.54	0.0089	0.0084
Moon	14905-05-21 00:28 G	7165139.50	7165139.52	7165139.60	0.0089	0.0088 *
Moon	14906-05-23 09:36 G	7165506.78	7165506.90	7165507.06	0.0089	0.0074
Earth	14906-05-23 11:02 G	7165506.86	7165506.96	7165507.11	0.0089	0.0078 *
Earth	14907-05-25 23:45 G	7165874.36	7165874.49	7165874.67	0.0089	0.0071
Moon	14907-05-25 23:31 G	7165874.37	7165874.48	7165874.65	0.0089	0.0076 *
Earth	14908-05-27 12:28 G	7166241.86	7166242.02	7166242.21	0.0089	0.0065
Moon	14908-05-27 13:55 G	7166241.91	7166242.08	7166242.27	0.0089	0.0061 *
Moon	14909-05-29 23:02 G	7166609.29	7166609.46	7166609.67	0.0089	0.0063
Earth	14909-05-30 00:57 G	7166609.37	7166609.54	7166609.76	0.0089	0.0059 *
Earth	14910-06-01 13:40 G	7166976.87	7166977.07	7166977.29	0.0089	0.0052
Moon	14910-06-01 16:33 G	7166977.00	7166977.19	7166977.43	0.0089	0.0048 *
Moon	14911-06-03 22:19 G	7167344.23	7167344.43	7167344.66	0.0089	0.0050
Earth	14911-06-04 02:09 G	7167344.37	7167344.59	7167344.81	0.0089	0.0045 *
Earth	14912-06-05 13:55 G	7167711.86	7167712.08	7167712.33	0.0089	0.0039
Moon	14912-06-05 17:45 G	7167712.01	7167712.24	7167712.49	0.0089	0.0034 *
Moon	14913-06-07 23:02 G	7168079.25	7168079.46	7168079.71	0.0089	0.0037

Earth	14913-06-08 02:24 G	7168079.37	7168079.60	7168079.85	0.0089	0.0032 *
Earth	14914-06-10 14:09 G	7168446.86	7168447.09	7168447.35	0.0089	0.0025
Moon	14914-06-10 16:48 G	7168446.95	7168447.20	7168447.46	0.0089	0.0021 *
Moon	14915-06-13 00:43 G	7168814.30	7168814.53	7168814.78	0.0089	0.0023
Earth	14915-06-13 02:24 G	7168814.36	7168814.60	7168814.86	0.0089	0.0018 *
Moon	14916-06-14 14:24 G	7169181.84	7169182.10	7169182.37	0.0089	0.0007
Earth	14916-06-14 14:24 G	7169181.85	7169182.10	7169182.36	0.0089	0.0011 *
Earth	14917-06-17 02:24 G	7169549.35	7169549.60	7169549.86	0.0089	0.0005
Moon	14917-06-17 03:36 G	7169549.40	7169549.65	7169549.89	0.0089	0.0009 *
Moon	14918-06-19 12:28 G	7169916.76	7169917.02	7169917.29	0.0089	0.0007
Earth	14918-06-19 14:24 G	7169916.85	7169917.10	7169917.36	0.0089	0.0003 *
Earth	14919-06-22 02:09 G	7170284.34	7170284.59	7170284.85	0.0089	0.0010
Moon	14919-06-22 05:31 G	7170284.48	7170284.73	7170284.98	0.0089	0.0005 *
Moon	14920-06-23 10:48 G	7170651.71	7170651.95	7170652.21	0.0089	0.0021
Earth	14920-06-23 14:09 G	7170651.84	7170652.09	7170652.35	0.0089	0.0016 *
Earth	14921-06-26 01:40 G	7171019.34	7171019.57	7171019.84	0.0089	0.0024
Moon	14921-06-26 05:31 G	7171019.49	7171019.73	7171019.99	0.0089	0.0019 *
Moon	14922-06-28 10:33 G	7171386.72	7171386.94	7171387.18	0.0089	0.0034
Earth	14922-06-28 13:40 G	7171386.83	7171387.07	7171387.32	0.0089	0.0029 *
Earth	14923-07-01 00:57 G	7171754.32	7171754.54	7171754.79	0.0089	0.0037
Moon	14923-07-01 03:21 G	7171754.41	7171754.64	7171754.90	0.0089	0.0033 *
Moon	14924-07-02 10:48 G	7172121.76	7172121.95	7172122.18	0.0089	0.0048
Earth	14924-07-02 12:57 G	7172121.81	7172122.04	7172122.26	0.0089	0.0043 *
Moon	14925-07-05 00:00 G	7172489.28	7172489.50	7172489.74	0.0089	0.0045
Earth	14925-07-05 00:00 G	7172489.30	7172489.50	7172489.73	0.0089	0.0049 *
Earth	14926-07-07 11:31 G	7172856.79	7172856.98	7172857.19	0.0089	0.0055
Moon	14926-07-07 12:43 G	7172856.85	7172857.03	7172857.21	0.0089	0.0060 *
Moon	14927-07-09 20:38 G	7173224.17	7173224.36	7173224.57	0.0089	0.0057
Earth	14927-07-09 22:19 G	7173224.27	7173224.43	7173224.64	0.0089	0.0062 *
Earth	14928-07-11 09:36 G	7173591.76	7173591.90	7173592.09	0.0089	0.0068

Moon	14928-07-11 12:43 G	7173591.92	7173592.03	7173592.20	0.0089	0.0073 *
Moon	14929-07-13 17:31 G	7173959.10	7173959.23	7173959.42	0.0089	0.0070
Earth	14929-07-13 21:07 G	7173959.26	7173959.38	7173959.54	0.0089	0.0074 *
Earth	14930-07-16 08:09 G	7174326.75	7174326.84	7174326.97	0.0089	0.0080
Moon	14930-07-16 12:00 G	7174326.93	7174327.00	7174327.09	0.0089	0.0084 *
Moon	14931-07-18 16:19 G	7174694.11	7174694.18	7174694.31	0.0089	0.0082
Earth	14931-07-18 19:26 G	7174694.27	7174694.31	7174694.39	0.0089	0.0086 *
Mars	14937-05-23 08:52 G	7176829.69	7176829.87	7176830.09	0.0089	0.0069
Mars	14939-04-18 12:43 G	7177524.74	7177525.03	7177525.37	0.0089	0.0021
Venus	14960-01-04 13:12 G	7185090.93	7185091.05	7185091.21	0.0088	0.0069
Venus	14960-08-17 02:24 G	7185316.42	7185316.60	7185316.78	0.0088	0.0050
Venus	14961-03-30 14:52 G	7185541.92	7185542.12	7185542.34	0.0088	0.0030
Venus	14961-11-11 03:36 G	7185767.44	7185767.65	7185767.88	0.0088	0.0011
Venus	14962-06-24 16:33 G	7185992.97	7185993.19	7185993.41	0.0088	0.0008
Venus	14963-02-05 05:02 G	7186218.51	7186218.71	7186218.93	0.0088	0.0028
Venus	14963-09-18 17:31 G	7186444.06	7186444.23	7186444.43	0.0088	0.0047
Mercury	14964-04-06 15:07 G	7186645.08	7186645.13	7186645.20	0.0088	0.0081
Venus	14964-05-01 06:14 G	7186669.62	7186669.76	7186669.91	0.0088	0.0066
Mercury	14964-07-03 17:16 G	7186733.15	7186733.22	7186733.32	0.0088	0.0073
Mercury	14964-09-29 19:26 G	7186821.22	7186821.31	7186821.43	0.0088	0.0066
Venus	14964-12-12 18:57 G	7186895.25	7186895.29	7186895.34	0.0088	0.0085
Mercury	14964-12-26 21:36 G	7186909.29	7186909.40	7186909.53	0.0088	0.0058
Mercury	14965-03-25 00:00 G	7186997.37	7186997.50	7186997.63	0.0088	0.0050
Mercury	14965-06-21 02:09 G	7187085.45	7187085.59	7187085.73	0.0088	0.0042
Mercury	14965-09-17 04:04 G	7187173.54	7187173.67	7187173.83	0.0088	0.0035
Mercury	14965-12-14 06:28 G	7187261.62	7187261.77	7187261.93	0.0088	0.0027
Mercury	14966-03-12 08:52 G	7187349.71	7187349.87	7187350.03	0.0088	0.0019
Mercury	14966-06-08 11:02 G	7187437.80	7187437.96	7187438.12	0.0088	0.0011
Mercury	14966-09-04 13:12 G	7187525.89	7187526.05	7187526.21	0.0088	0.0004
Mercury	14966-12-01 15:36 G	7187613.98	7187614.15	7187614.31	0.0088	0.0005

Mercury	14967-02-27 17:45 G	7187702.08	7187702.24	7187702.40	0.0088	0.0013
Mercury	14967-05-26 19:55 G	7187790.18	7187790.33	7187790.49	0.0088	0.0021
Mercury	14967-08-22 22:04 G	7187878.28	7187878.42	7187878.58	0.0088	0.0029
Mercury	14967-11-19 00:14 G	7187966.38	7187966.51	7187966.67	0.0088	0.0037
Mercury	14968-02-15 02:38 G	7188054.48	7188054.61	7188054.76	0.0088	0.0045
Mercury	14968-05-13 05:02 G	7188142.59	7188142.71	7188142.85	0.0088	0.0053
Mercury	14968-08-09 07:12 G	7188230.70	7188230.80	7188230.93	0.0088	0.0061
Mercury	14968-11-05 09:36 G	7188318.81	7188318.90	7188319.01	0.0088	0.0069
Mercury	14969-02-01 12:00 G	7188406.93	7188407.00	7188407.09	0.0088	0.0077
Mercury	14969-04-30 14:38 G	7188495.07	7188495.11	7188495.15	0.0088	0.0085
Earth	14986-11-15 16:19 G	7194903.15	7194903.18	7194903.25	0.0088	0.0086
Moon	14986-11-15 16:33 G	7194903.17	7194903.19	7194903.25	0.0088	0.0087 *
Earth	14987-11-18 02:38 G	7195270.54	7195270.61	7195270.75	0.0088	0.0081
Moon	14987-11-18 03:50 G	7195270.59	7195270.66	7195270.80	0.0088	0.0080 *
Moon	14988-11-19 10:48 G	7195637.85	7195637.95	7195638.11	0.0088	0.0077
Earth	14988-11-19 13:40 G	7195637.96	7195638.07	7195638.23	0.0088	0.0075 *
Earth	14989-11-22 00:28 G	7196005.37	7196005.52	7196005.69	0.0088	0.0069
Moon	14989-11-22 03:36 G	7196005.50	7196005.65	7196005.81	0.0088	0.0068 *
Moon	14990-11-24 07:40 G	7196372.66	7196372.82	7196373.01	0.0088	0.0064
Earth	14990-11-24 11:16 G	7196372.81	7196372.97	7196373.17	0.0088	0.0063 *
Earth	14991-11-26 22:04 G	7196740.24	7196740.42	7196740.63	0.0088	0.0057
Moon	14991-11-27 01:26 G	7196740.38	7196740.56	7196740.78	0.0088	0.0056 *
Moon	14992-11-28 05:31 G	7197107.55	7197107.73	7197107.96	0.0088	0.0052
Earth	14992-11-28 08:52 G	7197107.67	7197107.87	7197108.09	0.0088	0.0051 *
Earth	14993-11-30 19:40 G	7197475.12	7197475.32	7197475.56	0.0088	0.0045
Moon	14993-11-30 22:19 G	7197475.21	7197475.43	7197475.67	0.0088	0.0044 *
Moon	14994-12-03 06:14 G	7197842.55	7197842.76	7197843.00	0.0088	0.0040
Earth	14994-12-03 06:43 G	7197842.57	7197842.78	7197843.03	0.0088	0.0039 *
Moon	14995-12-05 18:00 G	7198210.01	7198210.25	7198210.51	0.0088	0.0032
Earth	14995-12-05 18:14 G	7198210.02	7198210.26	7198210.50	0.0088	0.0032 *

Earth	14996-12-07 05:16 G	7198577.48	7198577.72	7198577.98	0.0088	0.0026
Moon	14996-12-07 06:57 G	7198577.55	7198577.79	7198578.03	0.0088	0.0026 *
Moon	14997-12-09 13:55 G	7198944.82	7198945.08	7198945.34	0.0088	0.0018
Earth	14997-12-09 16:33 G	7198944.95	7198945.19	7198945.45	0.0088	0.0020 *
Earth	14998-12-12 04:04 G	7199312.42	7199312.67	7199312.93	0.0088	0.0013
Moon	14998-12-12 06:57 G	7199312.55	7199312.79	7199313.05	0.0088	0.0013 *
Moon	14999-12-14 11:45 G	7199679.73	7199679.99	7199680.25	0.0088	0.0006
Earth	14999-12-14 15:21 G	7199679.89	7199680.14	7199680.41	0.0088	0.0007 *
Earth	15000-12-17 02:38 G	7200047.35	7200047.61	7200047.87	0.0088	0.0000
Moon	15000-12-17 06:00 G	7200047.49	7200047.75	7200048.01	0.0088	0.0001 *

# 16TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 16th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	15001-12-19 11:02 G	7200414.71	7200414.96	7200415.22	0.0088	0.0006		
Earth	15001-12-19 14:09 G	7200414.83	7200415.09	7200415.35	0.0088	0.0006 *		
Earth	15002-12-22 01:26 G	7200782.31	7200782.56	7200782.82	0.0088	0.0013		
Moon	15002-12-22 03:36 G	7200782.39	7200782.65	7200782.92	0.0088	0.0013 *		
Moon	15003-12-24 12:28 G	7201149.77	7201150.02	7201150.26	0.0088	0.0019		
Earth	15003-12-24 12:57 G	7201149.79	7201150.04	7201150.30	0.0088	0.0019 *		
Moon	15004-12-26 00:14 G	7201517.26	7201517.51	7201517.77	0.0088	0.0026		
Earth	15004-12-26 00:14 G	7201517.28	7201517.51	7201517.77	0.0088	0.0026 *		

Earth	15005-12-28 12:00 G	7201884.77	7201885.00	7201885.25	0.0088	0.0032
Moon	15005-12-28 13:26 G	7201884.84	7201885.06	7201885.31	0.0088	0.0032 *
Moon	15006-12-30 20:52 G	7202252.14	7202252.37	7202252.62	0.0088	0.0039
Earth	15006-12-30 23:31 G	7202252.27	7202252.48	7202252.73	0.0088	0.0039 *
Earth	15008-01-02 11:16 G	7202619.77	7202619.97	7202620.21	0.0088	0.0046
Moon	15008-01-02 14:24 G	7202619.90	7202620.10	7202620.34	0.0088	0.0044 *
Moon	15009-01-03 19:26 G	7202987.12	7202987.31	7202987.54	0.0088	0.0052
Earth	15009-01-03 23:16 G	7202987.28	7202987.47	7202987.70	0.0088	0.0052 *
Earth	15010-01-06 11:31 G	7203354.79	7203354.98	7203355.18	0.0088	0.0058
Moon	15010-01-06 14:52 G	7203354.93	7203355.12	7203355.33	0.0088	0.0057 *
Moon	15011-01-08 20:24 G	7203722.20	7203722.35	7203722.54	0.0088	0.0066
Earth	15011-01-08 23:45 G	7203722.32	7203722.49	7203722.67	0.0088	0.0064 *
Earth	15012-01-11 11:45 G	7204089.83	7204089.99	7204090.15	0.0088	0.0070
Moon	15012-01-11 13:12 G	7204089.91	7204090.05	7204090.25	0.0088	0.0069 *
Moon	15013-01-12 22:33 G	7204457.35	7204457.44	7204457.59	0.0088	0.0078
Earth	15013-01-12 23:45 G	7204457.36	7204457.49	7204457.63	0.0088	0.0076 *
Moon	15014-01-15 11:31 G	7204824.89	7204824.98	7204825.11	0.0088	0.0080
Earth	15014-01-15 11:45 G	7204824.90	7204824.99	7204825.10	0.0088	0.0082 *
Earth	15015-01-17 23:31 G	7205192.47	7205192.48	7205192.55	0.0088	0.0088
Mars	15021-03-20 23:45 G	7207446.24	7207446.49	7207446.79	0.0089	0.0040
Mars	15023-02-13 09:50 G	7208140.67	7208140.91	7208141.20	0.0089	0.0046
Venus	15042-10-03 17:16 G	7215313.13	7215313.22	7215313.33	0.0089	0.0080
Venus	15043-05-17 06:28 G	7215538.62	7215538.77	7215538.95	0.0089	0.0060
Venus	15043-12-28 19:55 G	7215764.14	7215764.33	7215764.54	0.0089	0.0040
Venus	15044-08-10 09:21 G	7215989.68	7215989.89	7215990.11	0.0089	0.0019
Venus	15045-03-23 22:33 G	7216215.23	7216215.44	7216215.67	0.0089	0.0003
Venus	15045-11-04 11:45 G	7216440.78	7216440.99	7216441.21	0.0089	0.0022
Venus	15046-06-18 01:12 G	7216666.36	7216666.55	7216666.75	0.0089	0.0041
Mercury	15047-01-11 11:02 G	7216873.95	7216873.96	7216874.00	0.0089	0.0088
Venus	15047-01-29 14:38 G	7216891.96	7216892.11	7216892.27	0.0089	0.0062



Mercury	15047-04-09 13:12 G	7216962.00	7216962.05	7216962.13	0.0089	0.0080
Mercury	15047-07-06 15:21 G	7217050.06	7217050.14	7217050.25	0.0089	0.0072
Venus	15047-09-12 03:21 G	7217117.59	7217117.64	7217117.75	0.0089	0.0083
Mercury	15047-10-02 17:45 G	7217138.14	7217138.24	7217138.35	0.0089	0.0064
Mercury	15047-12-29 19:55 G	7217226.21	7217226.33	7217226.45	0.0089	0.0056
Mercury	15048-03-26 21:50 G	7217314.29	7217314.41	7217314.55	0.0089	0.0048
Mercury	15048-06-23 00:00 G	7217402.37	7217402.50	7217402.65	0.0089	0.0040
Mercury	15048-09-19 02:09 G	7217490.45	7217490.59	7217490.74	0.0089	0.0032
Mercury	15048-12-16 04:19 G	7217578.53	7217578.68	7217578.83	0.0089	0.0023
Mercury	15049-03-14 06:28 G	7217666.61	7217666.77	7217666.92	0.0089	0.0016
Mercury	15049-06-10 08:24 G	7217754.70	7217754.85	7217755.01	0.0089	0.0008
Mercury	15049-09-06 10:33 G	7217842.78	7217842.94	7217843.09	0.0089	0.0001
Mercury	15049-12-03 12:28 G	7217930.87	7217931.02	7217931.18	0.0089	0.0008
Mercury	15050-03-01 14:24 G	7218018.96	7218019.10	7218019.26	0.0089	0.0016
Mercury	15050-05-28 16:33 G	7218107.04	7218107.19	7218107.34	0.0089	0.0024
Mercury	15050-08-24 18:28 G	7218195.13	7218195.27	7218195.42	0.0089	0.0032
Mercury	15050-11-20 20:24 G	7218283.22	7218283.35	7218283.49	0.0089	0.0040
Mercury	15051-02-16 22:19 G	7218371.31	7218371.43	7218371.57	0.0089	0.0047
Mercury	15051-05-16 00:28 G	7218459.40	7218459.52	7218459.64	0.0089	0.0055
Mercury	15051-08-12 02:09 G	7218547.50	7218547.59	7218547.71	0.0089	0.0063
Mercury	15051-11-08 04:04 G	7218635.59	7218635.67	7218635.78	0.0089	0.0070
Mercury	15052-02-04 06:14 G	7218723.69	7218723.76	7218723.84	0.0089	0.0078
Mercury	15052-05-02 07:55 G	7218811.80	7218811.83	7218811.89	0.0089	0.0085
Moon	15068-05-18 16:48 G	7224672.15	7224672.20	7224672.27	0.0090	0.0087
Earth	15069-05-21 03:36 G	7225039.58	7225039.65	7225039.75	0.0089	0.0084
Moon	15069-05-21 03:21 G	7225039.60	7225039.64	7225039.71	0.0089	0.0087 *
Moon	15070-05-23 15:50 G	7225407.03	7225407.16	7225407.31	0.0089	0.0076
Earth	15070-05-23 16:33 G	7225407.07	7225407.19	7225407.32	0.0089	0.0078 *
Earth	15071-05-26 04:48 G	7225774.56	7225774.70	7225774.86	0.0089	0.0072
Moon	15071-05-26 06:28 G	7225774.65	7225774.77	7225774.93	0.0089	0.0075 *

Moon	15072-05-27 14:38 G	7226141.93	7226142.11	7226142.30	0.0089	0.0063
Earth	15072-05-27 17:31 G	7226142.07	7226142.23	7226142.42	0.0089	0.0066 *
Earth	15073-05-30 06:00 G	7226509.58	7226509.75	7226509.96	0.0089	0.0060
Moon	15073-05-30 09:36 G	7226509.72	7226509.90	7226510.09	0.0089	0.0061 *
Moon	15074-06-01 14:38 G	7226876.92	7226877.11	7226877.34	0.0089	0.0052
Earth	15074-06-01 18:28 G	7226877.09	7226877.27	7226877.50	0.0089	0.0054 *
Earth	15075-06-04 07:12 G	7227244.59	7227244.80	7227245.03	0.0089	0.0047
Moon	15075-06-04 10:19 G	7227244.73	7227244.93	7227245.16	0.0089	0.0049 *
Moon	15076-06-05 16:33 G	7227611.98	7227612.19	7227612.43	0.0089	0.0040
Earth	15076-06-05 19:26 G	7227612.10	7227612.31	7227612.56	0.0089	0.0041 *
Earth	15077-06-08 07:55 G	7227979.60	7227979.83	7227980.08	0.0089	0.0034
Moon	15077-06-08 09:50 G	7227979.67	7227979.91	7227980.16	0.0089	0.0035 *
Moon	15078-06-10 19:55 G	7228347.09	7228347.33	7228347.57	0.0089	0.0026
Earth	15078-06-10 19:55 G	7228347.10	7228347.33	7228347.59	0.0089	0.0028 *
Moon	15079-06-13 07:40 G	7228714.58	7228714.82	7228715.10	0.0089	0.0022
Earth	15079-06-13 08:09 G	7228714.60	7228714.84	7228715.10	0.0089	0.0021 *
Earth	15080-06-14 20:09 G	7229082.10	7229082.34	7229082.61	0.0089	0.0014
Moon	15080-06-14 22:04 G	7229082.18	7229082.42	7229082.67	0.0089	0.0013 *
Moon	15081-06-17 05:45 G	7229449.48	7229449.74	7229450.00	0.0089	0.0009
Earth	15081-06-17 08:24 G	7229449.60	7229449.85	7229450.11	0.0089	0.0008 *
Earth	15082-06-19 20:24 G	7229817.09	7229817.35	7229817.61	0.0089	0.0001
Moon	15082-06-19 23:31 G	7229817.23	7229817.48	7229817.73	0.0089	0.0001 *
Moon	15083-06-22 04:33 G	7230184.44	7230184.69	7230184.95	0.0089	0.0005
Earth	15083-06-22 08:24 G	7230184.59	7230184.85	7230185.11	0.0089	0.0006 *
Earth	15084-06-23 20:24 G	7230552.09	7230552.35	7230552.60	0.0089	0.0013
Moon	15084-06-23 23:31 G	7230552.23	7230552.48	7230552.74	0.0089	0.0013 *
Moon	15085-06-26 05:16 G	7230919.48	7230919.72	7230919.97	0.0089	0.0020
Earth	15085-06-26 08:09 G	7230919.60	7230919.84	7230920.10	0.0089	0.0019 *
Earth	15086-06-28 20:09 G	7231287.10	7231287.34	7231287.59	0.0089	0.0026
Moon	15086-06-28 22:04 G	7231287.17	7231287.42	7231287.67	0.0089	0.0026 *

Moon	15087-07-01 07:12 G	7231654.58	7231654.80	7231655.04	0.0089	0.0032
Earth	15087-07-01 07:40 G	7231654.59	7231654.82	7231655.07	0.0089	0.0032 *
Moon	15088-07-02 18:57 G	7232022.07	7232022.29	7232022.55	0.0089	0.0038
Earth	15088-07-02 19:26 G	7232022.09	7232022.31	7232022.55	0.0089	0.0039 *
Earth	15089-07-05 06:43 G	7232389.58	7232389.78	7232390.02	0.0089	0.0045
Moon	15089-07-05 08:38 G	7232389.66	7232389.86	7232390.09	0.0089	0.0046 *
Moon	15090-07-07 15:21 G	7232756.95	7232757.14	7232757.37	0.0089	0.0052
Earth	15090-07-07 18:14 G	7232757.07	7232757.26	7232757.49	0.0089	0.0051 *
Earth	15091-07-10 05:31 G	7233124.55	7233124.73	7233124.94	0.0089	0.0057
Moon	15091-07-10 08:52 G	7233124.69	7233124.87	7233125.07	0.0089	0.0058 *
Moon	15092-07-11 13:12 G	7233491.89	7233492.05	7233492.25	0.0089	0.0063
Earth	15092-07-11 17:02 G	7233492.05	7233492.21	7233492.41	0.0089	0.0063 *
Earth	15093-07-14 04:04 G	7233859.53	7233859.67	7233859.85	0.0089	0.0069
Moon	15093-07-14 07:12 G	7233859.66	7233859.80	7233859.98	0.0089	0.0070 *
Moon	15094-07-16 12:14 G	7234226.90	7234227.01	7234227.18	0.0089	0.0074
Earth	15094-07-16 15:21 G	7234227.03	7234227.14	7234227.30	0.0089	0.0075 *
Earth	15095-07-19 02:09 G	7234594.52	7234594.59	7234594.73	0.0089	0.0081
Moon	15095-07-19 04:33 G	7234594.59	7234594.69	7234594.80	0.0089	0.0081 *
Moon	15096-07-20 12:57 G	7234962.01	7234962.04	7234962.14	0.0089	0.0086
Earth	15096-07-20 13:40 G	7234962.03	7234962.07	7234962.15	0.0089	0.0086 *
Mars	15102-12-02 14:52 G	7237286.82	7237287.12	7237287.45	0.0089	0.0020
Mars	15104-10-27 19:12 G	7237982.12	7237982.30	7237982.51	0.0089	0.0070
Jupiter	15124-04-08 16:04 G	7245084.76	7245085.17	7245085.64	0.0088	0.0055
Venus	15124-04-08 22:04 G	7245085.35	7245085.42	7245085.54	0.0088	0.0079 *
Venus	15124-11-20 11:16 G	7245310.81	7245310.97	7245311.13	0.0088	0.0059
Venus	15125-07-04 00:00 G	7245536.31	7245536.50	7245536.70	0.0088	0.0040
Venus	15126-02-14 12:43 G	7245761.82	7245762.03	7245762.25	0.0088	0.0021
Venus	15126-09-28 01:26 G	7245987.34	7245987.56	7245987.78	0.0088	0.0002
Venus	15127-05-11 13:55 G	7246212.87	7246213.08	7246213.31	0.0088	0.0018
Venus	15127-12-23 02:38 G	7246438.42	7246438.61	7246438.82	0.0088	0.0037

Venus	15128-08-04 15:07 G	7246663.98	7246664.13	7246664.32	0.0088	0.0057
Mercury	15128-10-07 11:31 G	7246727.97	7246727.98	7246728.02	0.0088	0.0087
Mercury	15129-01-03 13:55 G	7246816.02	7246816.08	7246816.15	0.0088	0.0079
Venus	15129-03-18 03:50 G	7246889.57	7246889.66	7246889.79	0.0088	0.0076
Mercury	15129-04-01 15:50 G	7246904.08	7246904.16	7246904.27	0.0088	0.0072
Mercury	15129-06-28 18:00 G	7246992.16	7246992.25	7246992.37	0.0088	0.0064
Mercury	15129-09-24 20:24 G	7247080.23	7247080.35	7247080.48	0.0088	0.0056
Mercury	15129-12-21 22:19 G	7247168.31	7247168.43	7247168.58	0.0088	0.0049
Mercury	15130-03-20 00:28 G	7247256.39	7247256.52	7247256.68	0.0088	0.0041
Mercury	15130-06-16 02:52 G	7247344.48	7247344.62	7247344.77	0.0088	0.0033
Mercury	15130-09-12 05:02 G	7247432.56	7247432.71	7247432.87	0.0088	0.0025
Mercury	15130-12-09 07:12 G	7247520.65	7247520.80	7247520.96	0.0088	0.0018
Mercury	15131-03-07 09:36 G	7247608.74	7247608.90	7247609.06	0.0088	0.0010
Mercury	15131-06-03 11:45 G	7247696.83	7247696.99	7247697.15	0.0088	0.0002
Mercury	15131-08-30 13:55 G	7247784.92	7247785.08	7247785.25	0.0088	0.0007
Mercury	15131-11-26 16:19 G	7247873.02	7247873.18	7247873.34	0.0088	0.0014
Mercury	15132-02-22 18:28 G	7247961.11	7247961.27	7247961.43	0.0088	0.0022
Mercury	15132-05-20 20:38 G	7248049.21	7248049.36	7248049.52	0.0088	0.0030
Mercury	15132-08-16 22:48 G	7248137.31	7248137.45	7248137.61	0.0088	0.0038
Mercury	15132-11-13 01:12 G	7248225.42	7248225.55	7248225.70	0.0088	0.0046
Mercury	15133-02-09 03:36 G	7248313.52	7248313.65	7248313.78	0.0088	0.0054
Mercury	15133-05-08 05:45 G	7248401.63	7248401.74	7248401.86	0.0088	0.0062
Mercury	15133-08-04 08:09 G	7248489.75	7248489.84	7248489.94	0.0088	0.0070
Mercury	15133-10-31 10:04 G	7248577.87	7248577.92	7248578.02	0.0088	0.0079
Mercury	15134-01-27 12:28 G	7248666.02	7248666.02	7248666.07	0.0088	0.0087
Earth	15150-11-16 22:19 G	7254803.41	7254803.43	7254803.51	0.0088	0.0086
Moon	15150-11-17 00:43 G	7254803.45	7254803.53	7254803.62	0.0088	0.0082 *
Moon	15151-11-19 06:14 G	7255170.72	7255170.76	7255170.86	0.0088	0.0085
Earth	15151-11-19 09:36 G	7255170.81	7255170.90	7255171.01	0.0088	0.0080 *
Earth	15152-11-20 19:55 G	7255538.22	7255538.33	7255538.48	0.0088	0.0075

Moon	15152-11-20 23:31 G	7255538.35	7255538.48	7255538.65	0.0088	0.0071 *
Moon	15153-11-23 03:36 G	7255905.52	7255905.65	7255905.80	0.0088	0.0073
Earth	15153-11-23 06:57 G	7255905.64	7255905.79	7255905.96	0.0088	0.0069 *
Earth	15154-11-25 17:16 G	7256273.07	7256273.22	7256273.42	0.0088	0.0064
Moon	15154-11-25 21:07 G	7256273.20	7256273.38	7256273.59	0.0088	0.0059 *
Moon	15155-11-28 01:55 G	7256640.42	7256640.58	7256640.77	0.0088	0.0062
Earth	15155-11-28 04:04 G	7256640.50	7256640.67	7256640.89	0.0088	0.0058 *
Earth	15156-11-29 15:07 G	7257007.94	7257008.13	7257008.35	0.0088	0.0052
Moon	15156-11-29 16:48 G	7257007.99	7257008.20	7257008.43	0.0088	0.0048 *
Moon	15157-12-02 01:12 G	7257375.37	7257375.55	7257375.78	0.0088	0.0051
Earth	15157-12-02 01:55 G	7257375.38	7257375.58	7257375.82	0.0088	0.0046 *
Moon	15158-12-04 11:31 G	7257742.75	7257742.98	7257743.24	0.0088	0.0036
Earth	15158-12-04 12:57 G	7257742.82	7257743.04	7257743.28	0.0088	0.0040 *
Earth	15159-12-07 00:00 G	7258110.27	7258110.50	7258110.75	0.0088	0.0034
Moon	15159-12-07 01:55 G	7258110.37	7258110.58	7258110.82	0.0088	0.0038 *
Moon	15160-12-08 08:09 G	7258477.59	7258477.84	7258478.10	0.0088	0.0023
Earth	15160-12-08 11:02 G	7258477.73	7258477.96	7258478.22	0.0088	0.0028 *
Earth	15161-12-10 22:04 G	7258845.19	7258845.42	7258845.69	0.0088	0.0022
Moon	15161-12-11 01:55 G	7258845.34	7258845.58	7258845.83	0.0088	0.0026 *
Moon	15162-12-13 06:28 G	7259212.51	7259212.77	7259213.02	0.0088	0.0011
Earth	15162-12-13 09:36 G	7259212.66	7259212.90	7259213.17	0.0088	0.0016 *
Earth	15163-12-15 20:52 G	7259580.12	7259580.37	7259580.63	0.0088	0.0009
Moon	15163-12-16 00:14 G	7259580.26	7259580.51	7259580.78	0.0088	0.0014 *
Moon	15164-12-17 06:14 G	7259947.51	7259947.76	7259948.01	0.0088	0.0001
Earth	15164-12-17 08:24 G	7259947.59	7259947.85	7259948.11	0.0088	0.0003 *
Earth	15165-12-19 19:40 G	7260315.06	7260315.32	7260315.58	0.0088	0.0003
Moon	15165-12-19 21:07 G	7260315.12	7260315.38	7260315.65	0.0088	0.0001 *
Moon	15166-12-22 06:43 G	7260682.53	7260682.78	7260683.03	0.0088	0.0014
Earth	15166-12-22 06:57 G	7260682.54	7260682.79	7260683.05	0.0088	0.0010 *
Moon	15167-12-24 17:02 G	7261049.94	7261050.21	7261050.47	0.0088	0.0011

Earth	15167-12-24 18:14 G	7261050.02	7261050.26	7261050.53	0.0088	0.0016	*
Earth	15168-12-26 05:31 G	7261417.49	7261417.73	7261418.00	0.0088	0.0022	
Moon	15168-12-26 07:40 G	7261417.59	7261417.82	7261418.07	0.0088	0.0026	*
Moon	15169-12-28 14:24 G	7261784.84	7261785.10	7261785.35	0.0088	0.0023	
Earth	15169-12-28 17:16 G	7261784.98	7261785.22	7261785.47	0.0088	0.0028	*
Earth	15170-12-31 04:48 G	7262152.47	7262152.70	7262152.95	0.0088	0.0034	
Moon	15170-12-31 08:09 G	7262152.63	7262152.84	7262153.09	0.0088	0.0040	*
Moon	15172-01-02 12:43 G	7262519.81	7262520.03	7262520.28	0.0088	0.0037	
Earth	15172-01-02 16:33 G	7262519.96	7262520.19	7262520.42	0.0088	0.0041	*
Earth	15173-01-04 04:04 G	7262887.46	7262887.67	7262887.90	0.0088	0.0047	
Moon	15173-01-04 07:26 G	7262887.61	7262887.81	7262888.03	0.0088	0.0051	*
Moon	15174-01-06 13:55 G	7263254.88	7263255.08	7263255.30	0.0088	0.0048	
Earth	15174-01-06 15:36 G	7263254.97	7263255.15	7263255.38	0.0088	0.0053	*
Earth	15175-01-09 03:50 G	7263622.48	7263622.66	7263622.86	0.0088	0.0059	
Moon	15175-01-09 05:16 G	7263622.54	7263622.72	7263622.92	0.0088	0.0063	*
Moon	15176-01-11 15:21 G	7263989.98	7263990.14	7263990.34	0.0088	0.0061	
Earth	15176-01-11 16:04 G	7263990.00	7263990.17	7263990.35	0.0088	0.0065	*
Moon	15177-01-13 02:24 G	7264357.47	7264357.60	7264357.75	0.0088	0.0075	
Earth	15177-01-13 03:50 G	7264357.52	7264357.66	7264357.83	0.0088	0.0070	*
Earth	15178-01-15 15:36 G	7264725.05	7264725.15	7264725.31	0.0088	0.0077	
Moon	15178-01-15 17:45 G	7264725.12	7264725.24	7264725.41	0.0088	0.0073	*
Moon	15179-01-18 00:43 G	7265092.50	7265092.53	7265092.61	0.0088	0.0087	
Earth	15179-01-18 04:19 G	7265092.59	7265092.68	7265092.78	0.0088	0.0082	*
Earth	15180-01-20 15:50 G	7265460.15	7265460.16	7265460.22	0.0088	0.0088	
Moon	15180-01-20 19:40 G	7265460.25	7265460.32	7265460.42	0.0088	0.0083	
Mars	15184-11-03 14:09 G	7267208.96	7267209.09	7267209.24	0.0088	0.0079	
Mars	15186-09-29 01:26 G	7267903.26	7267903.56	7267903.88	0.0089	0.0007	
Venus	15207-08-19 14:38 G	7275532.98	7275533.11	7275533.25	0.0089	0.0071	
Venus	15208-04-01 03:50 G	7275758.49	7275758.66	7275758.85	0.0089	0.0051	
Venus	15208-11-12 17:02 G	7275984.01	7275984.21	7275984.42	0.0089	0.0030	

Venus	15209-06-26 06:14 G	7276209.55	7276209.76	7276209.99	0.0089	0.0011
Venus	15210-02-06 19:40 G	7276435.10	7276435.32	7276435.54	0.0089	0.0010
Venus	15210-09-20 08:52 G	7276660.67	7276660.87	7276661.08	0.0089	0.0030
Venus	15211-05-03 22:04 G	7276886.25	7276886.42	7276886.61	0.0089	0.0051
Mercury	15211-10-09 09:36 G	7277044.88	7277044.90	7277044.93	0.0089	0.0088
Venus	15211-12-15 11:31 G	7277111.85	7277111.98	7277112.12	0.0089	0.0071
Mercury	15212-01-05 11:45 G	7277132.93	7277132.99	7277133.06	0.0089	0.0080
Mercury	15212-04-02 13:40 G	7277220.99	7277221.07	7277221.18	0.0089	0.0072
Mercury	15212-06-29 15:50 G	7277309.07	7277309.16	7277309.28	0.0089	0.0064
Mercury	15212-09-25 18:00 G	7277397.14	7277397.25	7277397.38	0.0089	0.0056
Mercury	15212-12-22 20:09 G	7277485.22	7277485.34	7277485.48	0.0089	0.0047
Mercury	15213-03-20 22:19 G	7277573.30	7277573.43	7277573.58	0.0089	0.0039
Mercury	15213-06-17 00:28 G	7277661.38	7277661.52	7277661.67	0.0089	0.0031
Mercury	15213-09-13 02:38 G	7277749.46	7277749.61	7277749.76	0.0089	0.0023
Mercury	15213-12-10 04:48 G	7277837.55	7277837.70	7277837.85	0.0089	0.0015
Mercury	15214-03-08 06:43 G	7277925.63	7277925.78	7277925.94	0.0089	0.0008
Mercury	15214-06-04 08:52 G	7278013.72	7278013.87	7278014.02	0.0089	0.0001
Mercury	15214-08-31 10:48 G	7278101.80	7278101.95	7278102.11	0.0089	0.0009
Mercury	15214-11-27 12:57 G	7278189.89	7278190.04	7278190.19	0.0089	0.0017
Mercury	15215-02-23 14:52 G	7278277.98	7278278.12	7278278.27	0.0089	0.0025
Mercury	15215-05-22 16:48 G	7278366.07	7278366.20	7278366.35	0.0089	0.0033
Mercury	15215-08-18 18:43 G	7278454.16	7278454.28	7278454.43	0.0089	0.0041
Mercury	15215-11-14 20:52 G	7278542.25	7278542.37	7278542.50	0.0089	0.0048
Mercury	15216-02-10 22:48 G	7278630.34	7278630.45	7278630.58	0.0089	0.0056
Mercury	15216-05-09 00:43 G	7278718.43	7278718.53	7278718.65	0.0089	0.0063
Mercury	15216-08-05 02:52 G	7278806.53	7278806.62	7278806.71	0.0089	0.0071
Mercury	15216-11-01 04:33 G	7278894.63	7278894.69	7278894.77	0.0089	0.0079
Mercury	15217-01-28 06:28 G	7278982.75	7278982.77	7278982.82	0.0089	0.0086
Earth	15232-05-18 19:12 G	7284572.30	7284572.30	7284572.34	0.0090	0.0089
Moon	15233-05-21 06:14 G	7284939.66	7284939.76	7284939.89	0.0090	0.0081

Earth	15233-05-21 07:55 G	7284939.76	7284939.83	7284939.94	0.0090	0.0084	*
Earth	15234-05-23 20:52 G	7285307.25	7285307.37	7285307.50	0.0090	0.0078	
Moon	15234-05-23 22:33 G	7285307.37	7285307.44	7285307.57	0.0090	0.0082	*
Moon	15235-05-26 05:45 G	7285674.60	7285674.74	7285674.94	0.0090	0.0069	
Earth	15235-05-26 09:07 G	7285674.75	7285674.88	7285675.05	0.0090	0.0073	*
Earth	15236-05-27 21:36 G	7286042.26	7286042.40	7286042.60	0.0089	0.0067	
Moon	15236-05-28 01:40 G	7286042.42	7286042.57	7286042.74	0.0089	0.0070	*
Moon	15237-05-30 07:12 G	7286409.62	7286409.80	7286410.01	0.0089	0.0057	
Earth	15237-05-30 10:19 G	7286409.77	7286409.93	7286410.14	0.0089	0.0061	*
Earth	15238-06-01 22:48 G	7286777.27	7286777.45	7286777.68	0.0089	0.0055	
Moon	15238-06-02 02:09 G	7286777.42	7286777.59	7286777.81	0.0089	0.0059	*
Moon	15239-06-04 09:50 G	7287144.71	7287144.91	7287145.14	0.0089	0.0045	
Earth	15239-06-04 12:00 G	7287144.79	7287145.00	7287145.22	0.0089	0.0048	*
Earth	15240-06-06 00:14 G	7287512.30	7287512.51	7287512.75	0.0089	0.0042	
Moon	15240-06-06 01:26 G	7287512.35	7287512.56	7287512.81	0.0089	0.0046	*
Earth	15241-06-08 12:43 G	7287879.81	7287880.03	7287880.28	0.0089	0.0036	
Moon	15241-06-08 12:43 G	7287879.81	7287880.03	7287880.28	0.0089	0.0032	*
Moon	15242-06-10 23:31 G	7288247.24	7288247.48	7288247.73	0.0089	0.0033	
Earth	15242-06-11 00:57 G	7288247.31	7288247.54	7288247.80	0.0089	0.0029	*
Earth	15243-06-13 13:26 G	7288614.81	7288615.06	7288615.31	0.0089	0.0023	
Moon	15243-06-13 15:36 G	7288614.91	7288615.15	7288615.40	0.0089	0.0019	*
Moon	15244-06-14 22:33 G	7288982.19	7288982.44	7288982.69	0.0089	0.0021	
Earth	15244-06-15 01:40 G	7288982.32	7288982.57	7288982.83	0.0089	0.0016	*
Earth	15245-06-17 13:26 G	7289349.81	7289350.06	7289350.32	0.0089	0.0010	
Moon	15245-06-17 17:16 G	7289349.96	7289350.22	7289350.47	0.0089	0.0006	*
Moon	15246-06-19 22:04 G	7289717.17	7289717.42	7289717.68	0.0089	0.0008	
Earth	15246-06-20 01:40 G	7289717.31	7289717.57	7289717.83	0.0089	0.0004	*
Earth	15247-06-22 13:26 G	7290084.81	7290085.06	7290085.32	0.0089	0.0003	
Moon	15247-06-22 16:48 G	7290084.94	7290085.20	7290085.46	0.0089	0.0008	*
Moon	15248-06-23 23:31 G	7290452.23	7290452.48	7290452.73	0.0089	0.0005	



Earth	15248-06-24 01:26 G	7290452.31	7290452.56	7290452.82	0.0089	0.0009	*
Earth	15249-06-26 13:12 G	7290819.80	7290820.05	7290820.31	0.0089	0.0016	
Moon	15249-06-26 14:52 G	7290819.86	7290820.12	7290820.38	0.0089	0.0020	*
Earth	15250-06-29 00:57 G	7291187.30	7291187.54	7291187.80	0.0089	0.0022	
Moon	15250-06-29 00:57 G	7291187.30	7291187.54	7291187.79	0.0089	0.0017	*
Moon	15251-07-01 11:16 G	7291554.73	7291554.97	7291555.23	0.0089	0.0032	
Earth	15251-07-01 12:43 G	7291554.80	7291555.03	7291555.29	0.0089	0.0029	*
Earth	15252-07-03 00:43 G	7291922.30	7291922.53	7291922.78	0.0089	0.0035	
Moon	15252-07-03 02:38 G	7291922.39	7291922.61	7291922.86	0.0089	0.0031	*
Moon	15253-07-05 09:07 G	7292289.67	7292289.88	7292290.12	0.0089	0.0045	
Earth	15253-07-05 12:28 G	7292289.80	7292290.02	7292290.26	0.0089	0.0041	*
Earth	15254-07-07 23:45 G	7292657.29	7292657.49	7292657.73	0.0089	0.0047	
Moon	15254-07-08 03:21 G	7292657.43	7292657.64	7292657.88	0.0089	0.0042	*
Moon	15255-07-10 08:09 G	7293024.66	7293024.84	7293025.05	0.0089	0.0057	
Earth	15255-07-10 11:45 G	7293024.79	7293024.99	7293025.20	0.0089	0.0053	*
Earth	15256-07-11 23:16 G	7293392.28	7293392.47	7293392.66	0.0089	0.0059	
Moon	15256-07-12 01:55 G	7293392.40	7293392.58	7293392.81	0.0089	0.0054	*
Moon	15257-07-14 08:09 G	7293759.71	7293759.84	7293760.02	0.0089	0.0069	
Earth	15257-07-14 10:19 G	7293759.77	7293759.93	7293760.12	0.0089	0.0064	*
Earth	15258-07-16 21:21 G	7294127.26	7294127.39	7294127.57	0.0089	0.0070	
Moon	15258-07-16 22:33 G	7294127.29	7294127.44	7294127.65	0.0089	0.0066	*
Earth	15259-07-19 09:07 G	7294494.75	7294494.88	7294495.02	0.0089	0.0075	
Moon	15259-07-19 08:52 G	7294494.78	7294494.87	7294494.99	0.0089	0.0080	*
Moon	15260-07-20 18:43 G	7294862.15	7294862.28	7294862.41	0.0089	0.0076	
Earth	15260-07-20 19:55 G	7294862.25	7294862.33	7294862.46	0.0089	0.0081	*
Earth	15261-07-23 07:12 G	7295229.75	7295229.80	7295229.87	0.0089	0.0086	
Moon	15262-07-25 14:38 G	7295597.08	7295597.11	7295597.19	0.0089	0.0087	
Mars	15266-07-16 19:26 G	7297049.08	7297049.31	7297049.56	0.0089	0.0059	
Mars	15268-06-10 20:52 G	7297744.08	7297744.37	7297744.69	0.0089	0.0030	
Venus	15289-02-21 19:12 G	7305305.19	7305305.30	7305305.46	0.0088	0.0070	

Venus	15289-10-05 08:24 G	7305530.67	7305530.85	7305531.03	0.0088	0.0050
Venus	15290-05-18 20:52 G	7305756.18	7305756.37	7305756.59	0.0088	0.0031
Jupiter	15290-06-13 02:52 G	7305781.10	7305781.62	7305782.19	0.0088	0.0023
Venus	15290-12-30 09:50 G	7305981.70	7305981.91	7305982.13	0.0088	0.0012
Venus	15291-08-12 22:33 G	7306207.23	7306207.44	7306207.67	0.0088	0.0008
Venus	15292-03-25 11:16 G	7306432.77	7306432.97	7306433.18	0.0088	0.0027
Venus	15292-11-06 00:00 G	7306658.32	7306658.50	7306658.69	0.0088	0.0046
Venus	15293-06-19 12:28 G	7306883.89	7306884.02	7306884.18	0.0088	0.0066
Mercury	15293-07-04 10:19 G	7306898.90	7306898.93	7306898.97	0.0088	0.0085
Mercury	15293-09-30 12:14 G	7306986.95	7306987.01	7306987.09	0.0088	0.0078
Mercury	15293-12-27 14:24 G	7307075.01	7307075.10	7307075.20	0.0088	0.0070
Venus	15294-01-31 01:12 G	7307109.51	7307109.55	7307109.62	0.0088	0.0085
Mercury	15294-03-25 16:19 G	7307163.09	7307163.18	7307163.31	0.0088	0.0063
Mercury	15294-06-21 18:43 G	7307251.16	7307251.28	7307251.41	0.0088	0.0055
Mercury	15294-09-17 20:52 G	7307339.24	7307339.37	7307339.51	0.0088	0.0047
Mercury	15294-12-14 23:02 G	7307427.32	7307427.46	7307427.61	0.0088	0.0040
Mercury	15295-03-13 01:12 G	7307515.41	7307515.55	7307515.71	0.0088	0.0032
Mercury	15295-06-09 03:21 G	7307603.49	7307603.64	7307603.80	0.0088	0.0024
Mercury	15295-09-05 05:45 G	7307691.58	7307691.74	7307691.90	0.0088	0.0016
Mercury	15295-12-02 07:55 G	7307779.67	7307779.83	7307779.99	0.0088	0.0008
Mercury	15296-02-28 10:04 G	7307867.76	7307867.92	7307868.08	0.0088	0.0002
Mercury	15296-05-26 12:14 G	7307955.85	7307956.01	7307956.18	0.0088	0.0008
Mercury	15296-08-22 14:38 G	7308043.95	7308044.11	7308044.27	0.0088	0.0015
Mercury	15296-11-18 16:48 G	7308132.05	7308132.20	7308132.36	0.0088	0.0023
Mercury	15297-02-14 18:57 G	7308220.15	7308220.29	7308220.45	0.0088	0.0031
Mercury	15297-05-13 21:21 G	7308308.25	7308308.39	7308308.54	0.0088	0.0039
Mercury	15297-08-09 23:31 G	7308396.35	7308396.48	7308396.62	0.0088	0.0047
Mercury	15297-11-06 01:55 G	7308484.46	7308484.58	7308484.71	0.0088	0.0055
Mercury	15298-02-02 04:04 G	7308572.57	7308572.67	7308572.79	0.0088	0.0063
Mercury	15298-05-01 06:28 G	7308660.68	7308660.77	7308660.87	0.0088	0.0071

Mercury	15298-07-28 08:24 G	7308748.80	7308748.85	7308748.94	0.0088	0.0080
Mercury	15298-10-24 11:02 G	7308836.96	7308836.96	7308836.98	0.0088	0.0088
Moon	15314-11-17 01:26 G	7314703.49	7314703.56	7314703.67	0.0088	0.0082
Earth	15314-11-17 05:02 G	7314703.66	7314703.71	7314703.78	0.0088	0.0085 *
Earth	15315-11-19 15:07 G	7315071.05	7315071.13	7315071.25	0.0088	0.0080
Moon	15315-11-19 19:12 G	7315071.21	7315071.30	7315071.38	0.0088	0.0082 *
Moon	15316-11-20 22:19 G	7315438.31	7315438.43	7315438.60	0.0088	0.0072
Earth	15316-11-21 01:55 G	7315438.47	7315438.58	7315438.73	0.0088	0.0075 *
Earth	15317-11-23 12:28 G	7315805.89	7315806.02	7315806.20	0.0088	0.0070
Moon	15317-11-23 15:21 G	7315806.01	7315806.14	7315806.31	0.0088	0.0072 *
Moon	15318-11-25 21:21 G	7316173.22	7316173.39	7316173.57	0.0088	0.0062
Earth	15318-11-25 23:16 G	7316173.31	7316173.47	7316173.66	0.0088	0.0064 *
Earth	15319-11-28 09:50 G	7316540.74	7316540.91	7316541.12	0.0088	0.0059
Moon	15319-11-28 10:48 G	7316540.78	7316540.95	7316541.16	0.0088	0.0061 *
Earth	15320-11-29 20:38 G	7316908.17	7316908.36	7316908.58	0.0088	0.0053
Moon	15320-11-29 21:07 G	7316908.20	7316908.38	7316908.61	0.0088	0.0051 *
Moon	15321-12-02 06:14 G	7317275.55	7317275.76	7317275.99	0.0088	0.0049
Earth	15321-12-02 07:40 G	7317275.61	7317275.82	7317276.05	0.0088	0.0047 *
Earth	15322-12-04 18:14 G	7317643.05	7317643.26	7317643.51	0.0088	0.0042
Moon	15322-12-04 21:21 G	7317643.17	7317643.39	7317643.62	0.0088	0.0039 *
Moon	15323-12-07 01:55 G	7318010.35	7318010.58	7318010.82	0.0088	0.0038
Earth	15323-12-07 05:02 G	7318010.49	7318010.71	7318010.97	0.0088	0.0036 *
Earth	15324-12-08 16:04 G	7318377.94	7318378.17	7318378.43	0.0088	0.0030
Moon	15324-12-08 19:55 G	7318378.09	7318378.33	7318378.58	0.0088	0.0028 *
Moon	15325-12-11 00:00 G	7318745.26	7318745.50	7318745.75	0.0088	0.0026
Earth	15325-12-11 03:07 G	7318745.40	7318745.63	7318745.90	0.0088	0.0024 *
Earth	15326-12-13 14:09 G	7319112.85	7319113.09	7319113.36	0.0088	0.0018
Moon	15326-12-13 17:02 G	7319112.95	7319113.21	7319113.47	0.0088	0.0016 *
Moon	15327-12-15 23:31 G	7319480.24	7319480.48	7319480.74	0.0088	0.0013
Earth	15327-12-16 01:40 G	7319480.32	7319480.57	7319480.83	0.0088	0.0012 *

Earth	15328-12-17 12:57 G	7319847.79	7319848.04	7319848.30	0.0088	0.0006
Moon	15328-12-17 13:26 G	7319847.80	7319848.06	7319848.33	0.0088	0.0004 *
Earth	15329-12-20 00:28 G	7320215.26	7320215.52	7320215.78	0.0088	0.0001
Moon	15329-12-20 01:12 G	7320215.30	7320215.55	7320215.80	0.0088	0.0001 *
Moon	15330-12-22 10:04 G	7320582.66	7320582.92	7320583.20	0.0088	0.0008
Earth	15330-12-22 11:45 G	7320582.74	7320582.99	7320583.25	0.0088	0.0007 *
Earth	15331-12-24 23:02 G	7320950.21	7320950.46	7320950.72	0.0088	0.0013
Moon	15331-12-25 01:55 G	7320950.34	7320950.58	7320950.84	0.0088	0.0011 *
Moon	15332-12-26 07:12 G	7321317.55	7321317.80	7321318.06	0.0088	0.0020
Earth	15332-12-26 10:19 G	7321317.69	7321317.93	7321318.20	0.0088	0.0019 *
Earth	15333-12-28 21:50 G	7321685.17	7321685.41	7321685.67	0.0088	0.0025
Moon	15333-12-29 01:40 G	7321685.33	7321685.57	7321685.82	0.0088	0.0024 *
Moon	15334-12-31 06:00 G	7322052.52	7322052.75	7322053.00	0.0088	0.0032
Earth	15334-12-31 09:36 G	7322052.66	7322052.90	7322053.15	0.0088	0.0031 *
Earth	15336-01-02 21:07 G	7322420.15	7322420.38	7322420.62	0.0088	0.0036
Moon	15336-01-02 23:16 G	7322420.25	7322420.47	7322420.73	0.0088	0.0036 *
Moon	15337-01-04 06:28 G	7322787.57	7322787.77	7322788.01	0.0088	0.0043
Earth	15337-01-04 08:38 G	7322787.64	7322787.86	7322788.10	0.0088	0.0043 *
Earth	15338-01-06 20:09 G	7323155.14	7323155.34	7323155.57	0.0088	0.0049
Moon	15338-01-06 20:38 G	7323155.14	7323155.36	7323155.60	0.0088	0.0047 *
Earth	15339-01-09 07:55 G	7323522.64	7323522.83	7323523.05	0.0088	0.0054
Moon	15339-01-09 08:38 G	7323522.68	7323522.86	7323523.07	0.0088	0.0055 *
Moon	15340-01-11 18:14 G	7323890.07	7323890.26	7323890.47	0.0088	0.0060
Earth	15340-01-11 19:26 G	7323890.15	7323890.31	7323890.53	0.0088	0.0061 *
Earth	15341-01-13 07:55 G	7324257.67	7324257.83	7324258.01	0.0088	0.0065
Moon	15341-01-13 10:33 G	7324257.80	7324257.94	7324258.13	0.0088	0.0067 *
Moon	15342-01-15 16:33 G	7324625.05	7324625.19	7324625.36	0.0088	0.0071
Earth	15342-01-15 19:40 G	7324625.20	7324625.32	7324625.50	0.0088	0.0072 *
Earth	15343-01-18 07:55 G	7324992.72	7324992.83	7324992.97	0.0088	0.0077
Moon	15343-01-18 11:45 G	7324992.87	7324992.99	7324993.13	0.0088	0.0076 *

Moon	15344-01-20 16:48 G	7325360.12	7325360.20	7325360.31	0.0088	0.0082
Earth	15344-01-20 20:24 G	7325360.26	7325360.35	7325360.45	0.0088	0.0082 *
Earth	15345-01-22 07:55 G	7325727.82	7325727.83	7325727.90	0.0088	0.0088
Moon	15345-01-22 10:48 G	7325727.92	7325727.95	7325728.03	0.0088	0.0087
Mars	15350-05-14 14:09 G	7327665.83	7327666.09	7327666.40	0.0089	0.0034
Mars	15352-04-08 01:12 G	7328360.32	7328360.55	7328360.82	0.0089	0.0052
Venus	15371-11-21 21:36 G	7335527.34	7335527.40	7335527.51	0.0089	0.0083
Venus	15372-07-04 11:02 G	7335752.82	7335752.96	7335753.13	0.0089	0.0062
Venus	15373-02-15 00:43 G	7335978.34	7335978.53	7335978.72	0.0089	0.0042
Venus	15373-09-28 13:55 G	7336203.87	7336204.08	7336204.30	0.0089	0.0022
Venus	15374-05-12 03:07 G	7336429.41	7336429.63	7336429.85	0.0089	0.0002
Venus	15374-12-23 16:19 G	7336654.97	7336655.18	7336655.40	0.0089	0.0019
Venus	15375-08-06 05:31 G	7336880.54	7336880.73	7336880.94	0.0089	0.0039
Venus	15376-03-18 18:43 G	7337106.13	7337106.28	7337106.46	0.0089	0.0059
Mercury	15376-07-06 07:40 G	7337215.80	7337215.82	7337215.86	0.0089	0.0088
Mercury	15376-10-02 09:50 G	7337303.85	7337303.91	7337303.99	0.0089	0.0080
Venus	15376-10-30 07:55 G	7337331.75	7337331.83	7337331.94	0.0089	0.0080
Mercury	15376-12-29 12:00 G	7337391.92	7337392.00	7337392.11	0.0089	0.0071
Mercury	15377-03-27 14:09 G	7337479.99	7337480.09	7337480.21	0.0089	0.0063
Mercury	15377-06-23 16:19 G	7337568.07	7337568.18	7337568.31	0.0089	0.0055
Mercury	15377-09-19 18:43 G	7337656.15	7337656.28	7337656.41	0.0089	0.0047
Mercury	15377-12-16 20:52 G	7337744.23	7337744.37	7337744.51	0.0089	0.0039
Mercury	15378-03-14 22:48 G	7337832.31	7337832.45	7337832.60	0.0089	0.0031
Mercury	15378-06-11 00:57 G	7337920.39	7337920.54	7337920.69	0.0089	0.0023
Mercury	15378-09-07 03:07 G	7338008.48	7338008.63	7338008.78	0.0089	0.0015
Mercury	15378-12-04 05:02 G	7338096.56	7338096.71	7338096.87	0.0089	0.0007
Mercury	15379-03-02 07:12 G	7338184.65	7338184.80	7338184.96	0.0089	0.0001
Mercury	15379-05-29 09:07 G	7338272.73	7338272.88	7338273.04	0.0089	0.0010
Mercury	15379-08-25 11:16 G	7338360.82	7338360.97	7338361.12	0.0089	0.0017
Mercury	15379-11-21 13:12 G	7338448.91	7338449.05	7338449.20	0.0089	0.0025

Mercury	15380-02-17 15:21 G	7338537.00	7338537.14	7338537.28	0.0089	0.0033
Mercury	15380-05-15 17:16 G	7338625.09	7338625.22	7338625.36	0.0089	0.0040
Mercury	15380-08-11 19:12 G	7338713.18	7338713.30	7338713.43	0.0089	0.0048
Mercury	15380-11-07 21:21 G	7338801.27	7338801.39	7338801.51	0.0089	0.0056
Mercury	15381-02-03 23:16 G	7338889.37	7338889.47	7338889.58	0.0089	0.0064
Mercury	15381-05-03 00:57 G	7338977.47	7338977.54	7338977.64	0.0089	0.0072
Mercury	15381-07-30 03:21 G	7339065.57	7339065.64	7339065.71	0.0089	0.0079
Mercury	15381-10-26 05:02 G	7339153.68	7339153.71	7339153.75	0.0089	0.0087
Earth	15396-05-18 22:33 G	7344472.42	7344472.44	7344472.49	0.0090	0.0089
Earth	15397-05-21 11:02 G	7344839.89	7344839.96	7344840.07	0.0090	0.0084
Moon	15397-05-21 14:09 G	7344840.00	7344840.09	7344840.23	0.0090	0.0080 *
Moon	15398-05-23 20:38 G	7345207.27	7345207.36	7345207.48	0.0090	0.0082
Earth	15398-05-24 00:14 G	7345207.39	7345207.51	7345207.64	0.0090	0.0078 *
Earth	15399-05-26 12:28 G	7345574.89	7345575.02	7345575.19	0.0090	0.0073
Moon	15399-05-26 16:04 G	7345575.03	7345575.17	7345575.36	0.0090	0.0070 *
Moon	15400-05-28 22:04 G	7345942.29	7345942.42	7345942.60	0.0090	0.0071
Earth	15400-05-29 01:26 G	7345942.40	7345942.56	7345942.75	0.0090	0.0067 *
Earth	15401-05-31 14:09 G	7346309.91	7346310.09	7346310.29	0.0090	0.0061
Moon	15401-05-31 16:33 G	7346310.00	7346310.19	7346310.40	0.0090	0.0058 *
Moon	15402-06-03 01:12 G	7346677.36	7346677.55	7346677.74	0.0089	0.0058
Earth	15402-06-03 02:52 G	7346677.42	7346677.62	7346677.83	0.0089	0.0055 *
Moon	15403-06-05 15:21 G	7347044.92	7347045.14	7347045.38	0.0089	0.0046
Earth	15403-06-05 15:07 G	7347044.93	7347045.13	7347045.36	0.0089	0.0050 *
Earth	15404-06-07 03:36 G	7347412.45	7347412.65	7347412.90	0.0089	0.0044
Moon	15404-06-07 04:33 G	7347412.50	7347412.69	7347412.93	0.0089	0.0047 *
Moon	15405-06-09 14:24 G	7347779.87	7347780.10	7347780.36	0.0089	0.0035
Earth	15405-06-09 16:04 G	7347779.96	7347780.17	7347780.43	0.0089	0.0038 *
Earth	15406-06-12 05:02 G	7348147.47	7348147.71	7348147.96	0.0089	0.0031
Moon	15406-06-12 07:55 G	7348147.61	7348147.83	7348148.08	0.0089	0.0034 *
Moon	15407-06-14 14:24 G	7348514.85	7348515.10	7348515.35	0.0089	0.0022

Earth	15407-06-14 17:45 G	7348514.99	7348515.24	7348515.49	0.0089	0.0025 *
Earth	15408-06-16 05:45 G	7348882.50	7348882.74	7348883.00	0.0089	0.0019
Moon	15408-06-16 09:21 G	7348882.65	7348882.89	7348883.15	0.0089	0.0021 *
Moon	15409-06-18 14:52 G	7349249.88	7349250.12	7349250.38	0.0089	0.0010
Earth	15409-06-18 18:14 G	7349250.01	7349250.26	7349250.52	0.0089	0.0012 *
Earth	15410-06-21 06:14 G	7349617.51	7349617.76	7349618.02	0.0089	0.0006
Moon	15410-06-21 08:38 G	7349617.61	7349617.86	7349618.13	0.0089	0.0009 *
Moon	15411-06-23 16:33 G	7349984.94	7349985.19	7349985.44	0.0089	0.0002
Earth	15411-06-23 18:28 G	7349985.01	7349985.27	7349985.53	0.0089	0.0000 *
Earth	15412-06-25 06:14 G	7350352.51	7350352.76	7350353.02	0.0089	0.0007
Moon	15412-06-25 06:28 G	7350352.51	7350352.77	7350353.04	0.0089	0.0004 *
Earth	15413-06-27 18:00 G	7350720.01	7350720.25	7350720.51	0.0089	0.0013
Moon	15413-06-27 18:43 G	7350720.05	7350720.28	7350720.54	0.0089	0.0015 *
Moon	15414-06-30 04:04 G	7351087.42	7351087.67	7351087.94	0.0089	0.0017
Earth	15414-06-30 06:00 G	7351087.51	7351087.75	7351088.01	0.0089	0.0019 *
Earth	15415-07-02 18:00 G	7351455.00	7351455.25	7351455.50	0.0089	0.0024
Moon	15415-07-02 20:52 G	7351455.14	7351455.37	7351455.62	0.0089	0.0027 *
Moon	15416-07-04 02:09 G	7351822.36	7351822.59	7351822.85	0.0089	0.0029
Earth	15416-07-04 05:45 G	7351822.50	7351822.74	7351822.99	0.0089	0.0031 *
Earth	15417-07-06 17:31 G	7352190.00	7352190.23	7352190.47	0.0089	0.0036
Moon	15417-07-06 21:07 G	7352190.16	7352190.38	7352190.62	0.0089	0.0037 *
Moon	15418-07-09 01:55 G	7352557.37	7352557.58	7352557.82	0.0089	0.0041
Earth	15418-07-09 05:16 G	7352557.50	7352557.72	7352557.95	0.0089	0.0043 *
Earth	15419-07-11 16:48 G	7352925.00	7352925.20	7352925.43	0.0089	0.0048
Moon	15419-07-11 19:12 G	7352925.11	7352925.30	7352925.54	0.0089	0.0049 *
Moon	15420-07-13 02:52 G	7353292.43	7353292.62	7353292.82	0.0089	0.0053
Earth	15420-07-13 04:19 G	7353292.50	7353292.68	7353292.90	0.0089	0.0054 *
Earth	15421-07-15 16:04 G	7353659.98	7353660.17	7353660.36	0.0089	0.0060
Moon	15421-07-15 16:04 G	7353659.99	7353660.17	7353660.37	0.0089	0.0061 *
Earth	15422-07-18 03:07 G	7354027.47	7354027.63	7354027.82	0.0089	0.0065

Moon	15422-07-18 04:19 G	7354027.51	7354027.68	7354027.85	0.0089	0.0065 *
Moon	15423-07-20 12:28 G	7354394.89	7354395.02	7354395.20	0.0089	0.0071
Earth	15423-07-20 14:52 G	7354394.97	7354395.12	7354395.28	0.0089	0.0070 *
Earth	15424-07-22 01:26 G	7354762.45	7354762.56	7354762.71	0.0089	0.0076
Moon	15424-07-22 04:33 G	7354762.58	7354762.69	7354762.84	0.0089	0.0075 *
Moon	15425-07-24 09:50 G	7355129.81	7355129.91	7355130.01	0.0089	0.0081
Earth	15425-07-24 12:43 G	7355129.95	7355130.03	7355130.15	0.0089	0.0081 *
Earth	15426-07-26 23:45 G	7355497.45	7355497.49	7355497.57	0.0089	0.0086
Moon	15426-07-27 03:50 G	7355497.61	7355497.66	7355497.72	0.0089	0.0086
Mars	15432-01-25 23:16 G	7357506.16	7357506.47	7357506.79	0.0089	0.0011
Mars	15433-12-21 01:12 G	7358201.41	7358201.55	7358201.71	0.0089	0.0078
Venus	15453-05-28 03:50 G	7365299.59	7365299.66	7365299.77	0.0088	0.0080
Venus	15454-01-08 16:33 G	7365525.05	7365525.19	7365525.37	0.0088	0.0061
Venus	15454-08-22 05:45 G	7365750.55	7365750.74	7365750.93	0.0088	0.0041
Venus	15455-04-04 18:14 G	7365976.06	7365976.26	7365976.48	0.0088	0.0022
Venus	15455-11-16 07:12 G	7366201.58	7366201.80	7366202.02	0.0088	0.0003
Venus	15456-06-28 19:40 G	7366427.11	7366427.32	7366427.55	0.0088	0.0017
Jupiter	15456-08-16 01:40 G	7366475.03	7366475.57	7366476.15	0.0088	0.0011
Venus	15457-02-09 08:24 G	7366652.66	7366652.85	7366653.06	0.0088	0.0036
Venus	15457-09-22 20:52 G	7366878.22	7366878.37	7366878.56	0.0088	0.0056
Mercury	15458-04-02 08:38 G	7367069.82	7367069.86	7367069.91	0.0088	0.0084
Venus	15458-05-06 09:21 G	7367103.80	7367103.89	7367104.03	0.0088	0.0075
Mercury	15458-06-29 10:33 G	7367157.88	7367157.94	7367158.03	0.0088	0.0077
Mercury	15458-09-25 12:43 G	7367245.95	7367246.03	7367246.14	0.0088	0.0069
Mercury	15458-12-22 14:52 G	7367334.02	7367334.12	7367334.24	0.0088	0.0062
Mercury	15459-03-20 17:02 G	7367422.09	7367422.21	7367422.34	0.0088	0.0054
Mercury	15459-06-16 19:12 G	7367510.17	7367510.30	7367510.44	0.0088	0.0046
Mercury	15459-09-12 21:21 G	7367598.25	7367598.39	7367598.54	0.0088	0.0039
Mercury	15459-12-09 23:31 G	7367686.34	7367686.48	7367686.64	0.0088	0.0031
Mercury	15460-03-07 01:55 G	7367774.42	7367774.58	7367774.73	0.0088	0.0023



Mercury	15460-06-03 04:04 G	7367862.51	7367862.67	7367862.83	0.0088	0.0015
Mercury	15460-08-30 06:14 G	7367950.60	7367950.76	7367950.92	0.0088	0.0007
Mercury	15460-11-26 08:24 G	7368038.69	7368038.85	7368039.01	0.0088	0.0002
Mercury	15461-02-22 10:33 G	7368126.79	7368126.94	7368127.11	0.0088	0.0009
Mercury	15461-05-21 12:57 G	7368214.88	7368215.04	7368215.20	0.0088	0.0016
Mercury	15461-08-17 15:07 G	7368302.98	7368303.13	7368303.29	0.0088	0.0024
Mercury	15461-11-13 17:16 G	7368391.07	7368391.22	7368391.38	0.0088	0.0032
Mercury	15462-02-09 19:40 G	7368479.18	7368479.32	7368479.46	0.0088	0.0040
Mercury	15462-05-08 21:50 G	7368567.28	7368567.41	7368567.55	0.0088	0.0048
Mercury	15462-08-05 00:00 G	7368655.38	7368655.50	7368655.63	0.0088	0.0056
Mercury	15462-11-01 02:24 G	7368743.49	7368743.60	7368743.71	0.0088	0.0064
Mercury	15463-01-28 04:48 G	7368831.61	7368831.70	7368831.79	0.0088	0.0072
Mercury	15463-04-26 07:12 G	7368919.73	7368919.80	7368919.86	0.0088	0.0080
Moon	15477-11-14 20:38 G	7374236.34	7374236.36	7374236.44	0.0088	0.0086
Earth	15478-11-17 11:02 G	7374603.89	7374603.96	7374604.03	0.0088	0.0084
Moon	15478-11-17 14:09 G	7374604.08	7374604.09	7374604.14	0.0088	0.0087
Moon	15479-11-19 18:14 G	7374971.15	7374971.26	7374971.39	0.0088	0.0076
Earth	15479-11-19 20:52 G	7374971.30	7374971.37	7374971.51	0.0088	0.0080 *
Earth	15480-11-21 08:09 G	7375338.71	7375338.84	7375338.98	0.0088	0.0074
Moon	15480-11-21 10:19 G	7375338.83	7375338.93	7375339.08	0.0088	0.0078 *
Moon	15481-11-23 17:16 G	7375706.08	7375706.22	7375706.40	0.0088	0.0067
Earth	15481-11-23 18:43 G	7375706.13	7375706.28	7375706.44	0.0088	0.0069 *
Earth	15482-11-26 05:16 G	7376073.56	7376073.72	7376073.91	0.0088	0.0064
Moon	15482-11-26 05:31 G	7376073.58	7376073.73	7376073.92	0.0088	0.0067 *
Earth	15483-11-28 15:50 G	7376440.99	7376441.16	7376441.37	0.0088	0.0059
Moon	15483-11-28 16:48 G	7376441.03	7376441.20	7376441.41	0.0088	0.0056 *
Moon	15484-11-30 00:00 G	7376808.32	7376808.50	7376808.72	0.0088	0.0056
Earth	15484-11-30 03:07 G	7376808.42	7376808.63	7376808.83	0.0088	0.0053 *
Earth	15485-12-02 13:26 G	7377175.86	7377176.06	7377176.29	0.0088	0.0048
Moon	15485-12-02 16:04 G	7377175.97	7377176.17	7377176.41	0.0088	0.0045 *

Moon	15486-12-04 20:24 G	7377543.14	7377543.35	7377543.59	0.0088	0.0046
Earth	15486-12-05 00:28 G	7377543.29	7377543.52	7377543.75	0.0088	0.0042 *
Earth	15487-12-07 10:48 G	7377910.73	7377910.95	7377911.20	0.0088	0.0037
Moon	15487-12-07 14:09 G	7377910.87	7377911.09	7377911.35	0.0088	0.0034 *
Moon	15488-12-08 18:43 G	7378278.06	7378278.28	7378278.53	0.0088	0.0035
Earth	15488-12-08 22:04 G	7378278.18	7378278.42	7378278.67	0.0088	0.0031 *
Earth	15489-12-11 08:38 G	7378645.62	7378645.86	7378646.12	0.0088	0.0026
Moon	15489-12-11 11:02 G	7378645.72	7378645.96	7378646.23	0.0088	0.0022 *
Moon	15490-12-13 18:57 G	7379013.05	7379013.29	7379013.54	0.0088	0.0023
Earth	15490-12-13 19:40 G	7379013.08	7379013.32	7379013.58	0.0088	0.0020 *
Moon	15491-12-16 06:57 G	7379380.52	7379380.79	7379381.06	0.0088	0.0010
Earth	15491-12-16 06:43 G	7379380.53	7379380.78	7379381.04	0.0088	0.0014 *
Earth	15492-12-17 18:00 G	7379747.99	7379748.25	7379748.51	0.0088	0.0008
Moon	15492-12-17 19:12 G	7379748.06	7379748.30	7379748.55	0.0088	0.0012 *
Moon	15493-12-20 02:24 G	7380115.34	7380115.60	7380115.87	0.0088	0.0002
Earth	15493-12-20 05:16 G	7380115.46	7380115.72	7380115.98	0.0088	0.0002 *
Earth	15494-12-22 16:19 G	7380482.92	7380483.18	7380483.44	0.0088	0.0004
Moon	15494-12-22 19:12 G	7380483.05	7380483.30	7380483.56	0.0088	0.0002 *
Moon	15495-12-24 23:45 G	7380850.24	7380850.49	7380850.76	0.0088	0.0014
Earth	15495-12-25 03:50 G	7380850.40	7380850.66	7380850.92	0.0088	0.0009 *
Earth	15496-12-26 15:07 G	7381217.88	7381218.13	7381218.39	0.0088	0.0015
Moon	15496-12-26 18:28 G	7381218.01	7381218.27	7381218.53	0.0088	0.0011 *
Moon	15497-12-28 23:16 G	7381585.24	7381585.47	7381585.72	0.0088	0.0025
Earth	15497-12-29 02:24 G	7381585.36	7381585.60	7381585.86	0.0088	0.0021 *
Earth	15498-12-31 13:40 G	7381952.83	7381953.07	7381953.33	0.0088	0.0027
Moon	15498-12-31 16:04 G	7381952.92	7381953.17	7381953.43	0.0088	0.0023 *
Moon	15500-01-03 00:43 G	7382320.30	7382320.53	7382320.76	0.0088	0.0036
Earth	15500-01-03 01:26 G	7382320.32	7382320.56	7382320.80	0.0088	0.0033 *
Moon	15501-01-05 12:43 G	7382687.79	7382688.03	7382688.29	0.0088	0.0034
Earth	15501-01-05 12:43 G	7382687.81	7382688.03	7382688.27	0.0088	0.0038 *

Earth	15502-01-08 00:00 G	7383055.30	7383055.50	7383055.75	0.0088	0.0045
Moon	15502-01-08 01:55 G	7383055.38	7383055.58	7383055.80	0.0088	0.0048 *
Moon	15503-01-10 09:21 G	7383422.66	7383422.89	7383423.12	0.0088	0.0046
Earth	15503-01-10 12:00 G	7383422.79	7383423.00	7383423.22	0.0088	0.0050 *
Earth	15504-01-12 23:16 G	7383790.29	7383790.47	7383790.70	0.0088	0.0056
Moon	15504-01-13 02:38 G	7383790.43	7383790.61	7383790.81	0.0088	0.0060 *
Moon	15505-01-14 07:26 G	7384157.63	7384157.81	7384158.03	0.0088	0.0057
Earth	15505-01-14 11:45 G	7384157.80	7384157.99	7384158.18	0.0088	0.0061 *
Earth	15506-01-16 23:02 G	7384525.31	7384525.46	7384525.65	0.0088	0.0066
Moon	15506-01-17 02:24 G	7384525.46	7384525.60	7384525.78	0.0088	0.0071 *
Moon	15507-01-19 07:55 G	7384892.69	7384892.83	7384893.02	0.0088	0.0068
Earth	15507-01-19 11:16 G	7384892.83	7384892.97	7384893.14	0.0088	0.0072 *
Earth	15508-01-21 23:31 G	7385260.36	7385260.48	7385260.62	0.0088	0.0077
Moon	15508-01-22 01:12 G	7385260.48	7385260.55	7385260.69	0.0088	0.0082 *
Moon	15509-01-23 11:16 G	7385627.85	7385627.97	7385628.08	0.0088	0.0078
Earth	15509-01-23 11:45 G	7385627.90	7385627.99	7385628.09	0.0088	0.0082 *
Earth	15510-01-26 00:00 G	7385995.46	7385995.50	7385995.55	0.0088	0.0087
Moon	15511-01-28 13:12 G	7386363.04	7386363.05	7386363.11	0.0088	0.0088
Mars	15513-12-29 00:14 G	7387428.36	7387428.51	7387428.71	0.0088	0.0073
Mars	15515-11-23 15:07 G	7388122.83	7388123.13	7388123.44	0.0089	0.0013
Venus	15536-10-07 18:28 G	7395747.15	7395747.27	7395747.39	0.0089	0.0074
Venus	15537-05-21 07:40 G	7395972.65	7395972.82	7395973.00	0.0089	0.0054
Venus	15538-01-01 20:52 G	7396198.17	7396198.37	7396198.58	0.0089	0.0034
Venus	15538-08-15 10:19 G	7396423.71	7396423.93	7396424.15	0.0089	0.0013
Venus	15539-03-28 23:31 G	7396649.26	7396649.48	7396649.70	0.0089	0.0007
Venus	15539-11-09 12:28 G	7396874.82	7396875.02	7396875.24	0.0089	0.0027
Venus	15540-06-22 01:40 G	7397100.39	7397100.57	7397100.77	0.0089	0.0048
Venus	15541-02-02 15:07 G	7397326.00	7397326.13	7397326.28	0.0089	0.0068
Mercury	15541-04-04 06:00 G	7397386.72	7397386.75	7397386.78	0.0089	0.0088
Mercury	15541-07-01 07:55 G	7397474.77	7397474.83	7397474.91	0.0089	0.0080

Venus	15541-09-16 04:19 G	7397551.65	7397551.68	7397551.73	0.0089	0.0088
Mercury	15541-09-27 10:04 G	7397562.84	7397562.92	7397563.02	0.0089	0.0072
Mercury	15541-12-24 12:14 G	7397650.91	7397651.01	7397651.13	0.0089	0.0063
Mercury	15542-03-22 14:24 G	7397738.99	7397739.10	7397739.23	0.0089	0.0055
Mercury	15542-06-18 16:33 G	7397827.07	7397827.19	7397827.33	0.0089	0.0047
Mercury	15542-09-14 18:43 G	7397915.15	7397915.28	7397915.43	0.0089	0.0039
Mercury	15542-12-11 20:52 G	7398003.23	7398003.37	7398003.52	0.0089	0.0031
Mercury	15543-03-09 23:02 G	7398091.31	7398091.46	7398091.61	0.0089	0.0023
Mercury	15543-06-06 01:12 G	7398179.40	7398179.55	7398179.70	0.0089	0.0015
Mercury	15543-09-02 03:07 G	7398267.48	7398267.63	7398267.79	0.0089	0.0008
Mercury	15543-11-29 05:16 G	7398355.57	7398355.72	7398355.88	0.0089	0.0002
Mercury	15544-02-25 07:26 G	7398443.65	7398443.81	7398443.96	0.0089	0.0009
Mercury	15544-05-23 09:21 G	7398531.74	7398531.89	7398532.04	0.0089	0.0017
Mercury	15544-08-19 11:31 G	7398619.83	7398619.98	7398620.13	0.0089	0.0025
Mercury	15544-11-15 13:26 G	7398707.92	7398708.06	7398708.21	0.0089	0.0033
Mercury	15545-02-11 15:21 G	7398796.01	7398796.14	7398796.28	0.0089	0.0041
Mercury	15545-05-10 17:16 G	7398884.10	7398884.22	7398884.36	0.0089	0.0049
Mercury	15545-08-06 19:12 G	7398972.20	7398972.30	7398972.43	0.0089	0.0056
Mercury	15545-11-02 21:21 G	7399060.29	7399060.39	7399060.50	0.0089	0.0064
Mercury	15546-01-29 23:16 G	7399148.39	7399148.47	7399148.57	0.0089	0.0071
Mercury	15546-04-28 01:26 G	7399236.49	7399236.56	7399236.63	0.0089	0.0079
Mercury	15546-07-25 03:21 G	7399324.61	7399324.64	7399324.68	0.0089	0.0087
Earth	15560-05-20 01:12 G	7404372.52	7404372.55	7404372.61	0.0090	0.0088
Moon	15560-05-20 04:33 G	7404372.63	7404372.69	7404372.77	0.0090	0.0086
Moon	15561-05-22 10:19 G	7404739.87	7404739.93	7404740.03	0.0090	0.0085
Earth	15561-05-22 14:09 G	7404740.01	7404740.09	7404740.21	0.0090	0.0083 *
Earth	15562-05-25 02:52 G	7405107.52	7405107.62	7405107.77	0.0090	0.0078
Moon	15562-05-25 06:14 G	7405107.64	7405107.76	7405107.92	0.0090	0.0076 *
Moon	15563-05-27 12:57 G	7405474.92	7405475.04	7405475.20	0.0090	0.0075
Earth	15563-05-27 15:36 G	7405475.03	7405475.15	7405475.33	0.0090	0.0073 *

Earth	15564-05-29 04:33 G	7405842.54	7405842.69	7405842.88	0.0090	0.0067
Moon	15564-05-29 06:14 G	7405842.60	7405842.76	7405842.97	0.0090	0.0065 *
Moon	15565-05-31 16:33 G	7406210.04	7406210.19	7406210.39	0.0090	0.0064
Earth	15565-05-31 16:48 G	7406210.04	7406210.20	7406210.41	0.0090	0.0062 *
Moon	15566-06-03 05:45 G	7406577.53	7406577.74	7406577.96	0.0090	0.0053
Earth	15566-06-03 05:45 G	7406577.55	7406577.74	7406577.96	0.0090	0.0056 *
Earth	15567-06-05 18:43 G	7406945.07	7406945.28	7406945.49	0.0090	0.0050
Moon	15567-06-05 20:24 G	7406945.15	7406945.35	7406945.55	0.0090	0.0053 *
Moon	15568-06-07 03:50 G	7407312.45	7407312.66	7407312.91	0.0090	0.0043
Earth	15568-06-07 06:43 G	7407312.58	7407312.78	7407313.02	0.0090	0.0045 *
Earth	15569-06-09 19:26 G	7407680.09	7407680.31	7407680.55	0.0089	0.0039
Moon	15569-06-09 22:33 G	7407680.23	7407680.44	7407680.67	0.0089	0.0042 *
Moon	15570-06-12 04:19 G	7408047.45	7408047.68	7408047.93	0.0089	0.0030
Earth	15570-06-12 08:09 G	7408047.61	7408047.84	7408048.09	0.0089	0.0033 *
Earth	15571-06-14 20:38 G	7408415.12	7408415.36	7408415.61	0.0089	0.0027
Moon	15571-06-14 23:45 G	7408415.26	7408415.49	7408415.75	0.0089	0.0030 *
Moon	15572-06-16 06:00 G	7408782.52	7408782.75	7408783.01	0.0089	0.0018
Earth	15572-06-16 09:21 G	7408782.64	7408782.89	7408783.14	0.0089	0.0021 *
Earth	15573-06-18 21:36 G	7409150.15	7409150.40	7409150.65	0.0089	0.0015
Moon	15573-06-18 23:31 G	7409150.23	7409150.48	7409150.75	0.0089	0.0018 *
Moon	15574-06-21 09:21 G	7409517.64	7409517.89	7409518.14	0.0089	0.0006
Earth	15574-06-21 10:04 G	7409517.66	7409517.92	7409518.17	0.0089	0.0009 *
Moon	15575-06-23 22:04 G	7409885.16	7409885.42	7409885.69	0.0089	0.0006
Earth	15575-06-23 22:04 G	7409885.17	7409885.42	7409885.68	0.0089	0.0003 *
Earth	15576-06-25 10:04 G	7410252.67	7410252.92	7410253.18	0.0089	0.0004
Moon	15576-06-25 11:45 G	7410252.75	7410252.99	7410253.24	0.0089	0.0007 *
Moon	15577-06-27 19:26 G	7410620.05	7410620.31	7410620.58	0.0089	0.0006
Earth	15577-06-27 22:04 G	7410620.17	7410620.42	7410620.68	0.0089	0.0010 *
Earth	15578-06-30 10:04 G	7410987.67	7410987.92	7410988.18	0.0089	0.0015
Moon	15578-06-30 12:57 G	7410987.81	7410988.04	7410988.30	0.0089	0.0020 *

Moon	15579-07-02 18:14 G	7411355.01	7411355.26	7411355.52	0.0089	0.0017
Earth	15579-07-02 21:50 G	7411355.17	7411355.41	7411355.67	0.0089	0.0022 *
Earth	15580-07-04 09:36 G	7411722.67	7411722.90	7411723.16	0.0089	0.0027
Moon	15580-07-04 13:12 G	7411722.81	7411723.05	7411723.29	0.0089	0.0031 *
Moon	15581-07-06 18:28 G	7412090.04	7412090.27	7412090.52	0.0089	0.0029
Earth	15581-07-06 21:21 G	7412090.17	7412090.39	7412090.65	0.0089	0.0033 *
Earth	15582-07-09 09:21 G	7412457.67	7412457.89	7412458.13	0.0089	0.0038
Moon	15582-07-09 11:31 G	7412457.75	7412457.98	7412458.21	0.0089	0.0043 *
Moon	15583-07-11 20:38 G	7412825.15	7412825.36	7412825.59	0.0089	0.0041
Earth	15583-07-11 21:07 G	7412825.17	7412825.38	7412825.62	0.0089	0.0044 *
Earth	15584-07-13 09:07 G	7413192.67	7413192.88	7413193.09	0.0089	0.0050
Moon	15584-07-13 08:24 G	7413192.67	7413192.85	7413193.09	0.0089	0.0054 *
Earth	15585-07-15 20:24 G	7413560.17	7413560.35	7413560.57	0.0089	0.0056
Moon	15585-07-15 22:04 G	7413560.24	7413560.42	7413560.64	0.0089	0.0052 *
Moon	15586-07-18 05:31 G	7413927.56	7413927.73	7413927.92	0.0089	0.0065
Earth	15586-07-18 08:38 G	7413927.67	7413927.86	7413928.04	0.0089	0.0061 *
Earth	15587-07-20 19:26 G	7414295.16	7414295.31	7414295.50	0.0089	0.0066
Moon	15587-07-20 22:48 G	7414295.28	7414295.45	7414295.64	0.0089	0.0062 *
Moon	15588-07-22 02:52 G	7414662.52	7414662.62	7414662.79	0.0089	0.0076
Earth	15588-07-22 06:57 G	7414662.66	7414662.79	7414662.96	0.0089	0.0071 *
Earth	15589-07-24 18:14 G	7415030.15	7415030.26	7415030.41	0.0089	0.0076
Moon	15589-07-24 21:21 G	7415030.26	7415030.39	7415030.56	0.0089	0.0072 *
Moon	15590-07-27 02:09 G	7415397.56	7415397.59	7415397.69	0.0089	0.0086
Earth	15590-07-27 05:31 G	7415397.64	7415397.73	7415397.85	0.0089	0.0081 *
Earth	15591-07-29 16:33 G	7415765.15	7415765.19	7415765.28	0.0089	0.0086
Moon	15591-07-29 18:28 G	7415765.18	7415765.27	7415765.40	0.0089	0.0081 *
Mars	15595-09-10 02:09 G	7417268.36	7417268.59	7417268.88	0.0089	0.0051
Mars	15597-08-05 03:21 G	7417963.37	7417963.64	7417963.95	0.0089	0.0038
Venus	15618-04-13 00:57 G	7425519.43	7425519.54	7425519.68	0.0088	0.0071
Venus	15618-11-24 13:40 G	7425744.91	7425745.07	7425745.26	0.0088	0.0052

Venus	15619-07-08 02:38 G	7425970.41	7425970.61	7425970.82	0.0088	0.0033
Venus	15620-02-18 15:21 G	7426195.93	7426196.14	7426196.36	0.0088	0.0013
Venus	15620-10-01 04:04 G	7426421.45	7426421.67	7426421.89	0.0088	0.0007
Venus	15621-05-14 16:33 G	7426646.99	7426647.19	7426647.41	0.0088	0.0026
Venus	15621-12-26 05:16 G	7426872.54	7426872.72	7426872.92	0.0088	0.0045
Venus	15622-08-08 17:45 G	7427098.12	7427098.24	7427098.41	0.0088	0.0065
Jupiter	15622-10-16 10:19 G	7427166.49	7427166.93	7427167.48	0.0088	0.0044
Mercury	15622-12-29 06:57 G	7427240.75	7427240.79	7427240.85	0.0088	0.0083
Venus	15623-03-22 06:28 G	7427323.73	7427323.77	7427323.86	0.0088	0.0084
Mercury	15623-03-27 08:52 G	7427328.81	7427328.87	7427328.96	0.0088	0.0076
Mercury	15623-06-23 11:16 G	7427416.88	7427416.97	7427417.07	0.0088	0.0068
Mercury	15623-09-19 13:12 G	7427504.95	7427505.05	7427505.18	0.0088	0.0061
Mercury	15623-12-16 15:21 G	7427593.02	7427593.14	7427593.28	0.0088	0.0053
Mercury	15624-03-13 17:45 G	7427681.10	7427681.24	7427681.38	0.0088	0.0045
Mercury	15624-06-09 19:40 G	7427769.19	7427769.32	7427769.47	0.0088	0.0038
Mercury	15624-09-05 21:50 G	7427857.27	7427857.41	7427857.57	0.0088	0.0030
Mercury	15624-12-03 00:14 G	7427945.35	7427945.51	7427945.66	0.0088	0.0022
Mercury	15625-03-01 02:24 G	7428033.44	7428033.60	7428033.76	0.0088	0.0014
Mercury	15625-05-28 04:33 G	7428121.53	7428121.69	7428121.85	0.0088	0.0006
Mercury	15625-08-24 06:43 G	7428209.62	7428209.78	7428209.95	0.0088	0.0003
Mercury	15625-11-20 08:52 G	7428297.72	7428297.87	7428298.04	0.0088	0.0010
Mercury	15626-02-16 11:16 G	7428385.81	7428385.97	7428386.13	0.0088	0.0017
Mercury	15626-05-15 13:26 G	7428473.91	7428474.06	7428474.22	0.0088	0.0025
Mercury	15626-08-11 15:36 G	7428562.01	7428562.15	7428562.31	0.0088	0.0033
Mercury	15626-11-07 18:00 G	7428650.11	7428650.25	7428650.39	0.0088	0.0041
Mercury	15627-02-03 20:09 G	7428738.21	7428738.34	7428738.48	0.0088	0.0049
Mercury	15627-05-02 22:19 G	7428826.32	7428826.43	7428826.56	0.0088	0.0057
Mercury	15627-07-30 00:43 G	7428914.43	7428914.53	7428914.64	0.0088	0.0065
Mercury	15627-10-26 03:07 G	7429002.54	7429002.63	7429002.72	0.0088	0.0073
Mercury	15628-01-22 04:48 G	7429090.67	7429090.70	7429090.78	0.0088	0.0082

Earth	15641-11-15 06:57 G	7434136.79	7434136.79	7434136.79	0.0088	0.0088
Moon	15641-11-15 10:19 G	7434136.87	7434136.93	7434137.02	0.0088	0.0084
Moon	15642-11-17 14:24 G	7434504.10	7434504.10	7434504.13	0.0088	0.0088
Earth	15642-11-17 17:16 G	7434504.15	7434504.22	7434504.30	0.0088	0.0083
Earth	15643-11-20 03:07 G	7434871.54	7434871.63	7434871.77	0.0088	0.0079
Moon	15643-11-20 05:16 G	7434871.60	7434871.72	7434871.87	0.0088	0.0075 *
Moon	15644-11-21 12:28 G	7435238.93	7435239.02	7435239.16	0.0088	0.0078
Earth	15644-11-21 13:40 G	7435238.95	7435239.07	7435239.23	0.0088	0.0074 *
Moon	15645-11-23 23:16 G	7435606.31	7435606.47	7435606.67	0.0088	0.0065
Earth	15645-11-24 00:14 G	7435606.37	7435606.51	7435606.68	0.0088	0.0069 *
Earth	15646-11-26 10:33 G	7435973.79	7435973.94	7435974.14	0.0088	0.0064
Moon	15646-11-26 12:14 G	7435973.87	7435974.01	7435974.19	0.0088	0.0068 *
Moon	15647-11-28 18:57 G	7436341.09	7436341.29	7436341.50	0.0088	0.0055
Earth	15647-11-28 21:21 G	7436341.22	7436341.39	7436341.60	0.0088	0.0059 *
Earth	15648-11-30 07:55 G	7436708.65	7436708.83	7436709.06	0.0088	0.0054
Moon	15648-11-30 11:31 G	7436708.81	7436708.98	7436709.19	0.0088	0.0058 *
Moon	15649-12-02 15:21 G	7437075.94	7437076.14	7437076.38	0.0088	0.0045
Earth	15649-12-02 18:43 G	7437076.09	7437076.28	7437076.52	0.0088	0.0049 *
Earth	15650-12-05 05:45 G	7437443.52	7437443.74	7437443.97	0.0088	0.0043
Moon	15650-12-05 09:21 G	7437443.68	7437443.89	7437444.12	0.0088	0.0046 *
Moon	15651-12-07 14:09 G	7437810.87	7437811.09	7437811.33	0.0088	0.0034
Earth	15651-12-07 16:19 G	7437810.97	7437811.18	7437811.43	0.0088	0.0038 *
Earth	15652-12-09 03:21 G	7438178.41	7438178.64	7438178.89	0.0088	0.0032
Moon	15652-12-09 05:02 G	7438178.47	7438178.71	7438178.96	0.0088	0.0035 *
Moon	15653-12-11 13:26 G	7438545.83	7438546.06	7438546.31	0.0088	0.0024
Earth	15653-12-11 14:09 G	7438545.85	7438546.09	7438546.35	0.0088	0.0027 *
Moon	15654-12-13 23:45 G	7438913.24	7438913.49	7438913.76	0.0088	0.0025
Earth	15654-12-14 01:12 G	7438913.30	7438913.55	7438913.80	0.0088	0.0021 *
Earth	15655-12-16 12:00 G	7439280.75	7439281.00	7439281.26	0.0088	0.0016
Moon	15655-12-16 13:55 G	7439280.84	7439281.08	7439281.33	0.0088	0.0013 *



Moon	15656-12-17 20:09 G	7439648.08	7439648.34	7439648.61	0.0088	0.0013
Earth	15656-12-17 23:16 G	7439648.21	7439648.47	7439648.72	0.0088	0.0010 *
Earth	15657-12-20 10:04 G	7440015.66	7440015.92	7440016.18	0.0088	0.0005
Moon	15657-12-20 13:40 G	7440015.81	7440016.07	7440016.33	0.0088	0.0001 *
Moon	15658-12-22 17:45 G	7440382.99	7440383.24	7440383.50	0.0088	0.0002
Earth	15658-12-22 21:21 G	7440383.13	7440383.39	7440383.65	0.0088	0.0001 *
Earth	15659-12-25 08:24 G	7440750.60	7440750.85	7440751.12	0.0088	0.0007
Moon	15659-12-25 12:00 G	7440750.74	7440751.00	7440751.27	0.0088	0.0009 *
Moon	15660-12-26 17:45 G	7441117.99	7441118.24	7441118.49	0.0088	0.0009
Earth	15660-12-26 19:40 G	7441118.07	7441118.32	7441118.59	0.0088	0.0013 *
Earth	15661-12-29 07:12 G	7441485.55	7441485.80	7441486.06	0.0088	0.0018
Moon	15661-12-29 08:52 G	7441485.61	7441485.87	7441486.13	0.0088	0.0020 *
Moon	15662-12-31 18:14 G	7441853.02	7441853.26	7441853.51	0.0088	0.0021
Earth	15662-12-31 18:28 G	7441853.03	7441853.27	7441853.53	0.0088	0.0024 *
Moon	15664-01-03 04:33 G	7442220.46	7442220.69	7442220.96	0.0088	0.0032
Earth	15664-01-03 06:00 G	7442220.52	7442220.75	7442221.01	0.0088	0.0029 *
Earth	15665-01-04 17:16 G	7442588.00	7442588.22	7442588.48	0.0088	0.0035
Moon	15665-01-04 19:40 G	7442588.09	7442588.32	7442588.56	0.0088	0.0032 *
Moon	15666-01-07 01:55 G	7442955.36	7442955.58	7442955.82	0.0088	0.0042
Earth	15666-01-07 04:48 G	7442955.49	7442955.70	7442955.95	0.0088	0.0040 *
Earth	15667-01-09 16:33 G	7443322.98	7443323.19	7443323.42	0.0088	0.0046
Moon	15667-01-09 19:55 G	7443323.12	7443323.33	7443323.57	0.0088	0.0043 *
Moon	15668-01-12 00:28 G	7443690.34	7443690.52	7443690.75	0.0088	0.0053
Earth	15668-01-12 03:50 G	7443690.48	7443690.66	7443690.90	0.0088	0.0052 *
Earth	15669-01-13 15:36 G	7444057.97	7444058.15	7444058.36	0.0088	0.0056
Moon	15669-01-13 19:12 G	7444058.11	7444058.30	7444058.52	0.0088	0.0055 *
Moon	15670-01-16 00:57 G	7444425.39	7444425.54	7444425.74	0.0088	0.0064
Earth	15670-01-16 03:21 G	7444425.47	7444425.64	7444425.84	0.0088	0.0062 *
Earth	15671-01-18 15:21 G	7444792.98	7444793.14	7444793.32	0.0088	0.0067
Moon	15671-01-18 16:33 G	7444793.03	7444793.19	7444793.39	0.0088	0.0066 *

Moon	15672-01-21 02:38 G	7445160.49	7445160.61	7445160.77	0.0088	0.0073
Earth	15672-01-21 03:07 G	7445160.50	7445160.63	7445160.80	0.0088	0.0072 *
Moon	15673-01-22 13:40 G	7445527.95	7445528.07	7445528.23	0.0088	0.0075
Earth	15673-01-22 15:07 G	7445528.02	7445528.13	7445528.27	0.0088	0.0077 *
Earth	15674-01-25 02:52 G	7445895.55	7445895.62	7445895.74	0.0088	0.0082
Moon	15674-01-25 05:16 G	7445895.64	7445895.72	7445895.81	0.0088	0.0083 *
Moon	15675-01-27 12:28 G	7446262.96	7446263.02	7446263.10	0.0088	0.0085
Earth	15675-01-27 15:07 G	7446263.10	7446263.13	7446263.21	0.0088	0.0087 *
Mars	15679-07-08 00:57 G	7447885.25	7447885.54	7447885.84	0.0088	0.0027
Mars	15681-06-01 13:40 G	7448579.86	7448580.07	7448580.33	0.0089	0.0058
Venus	15701-01-10 01:26 G	7455741.51	7455741.56	7455741.63	0.0089	0.0086
Venus	15701-08-23 14:38 G	7455966.98	7455967.11	7455967.27	0.0089	0.0066
Venus	15702-04-06 03:50 G	7456192.49	7456192.66	7456192.86	0.0089	0.0046
Venus	15702-11-17 17:16 G	7456418.01	7456418.22	7456418.44	0.0089	0.0025
Venus	15703-07-01 06:43 G	7456643.56	7456643.78	7456644.00	0.0089	0.0005
Venus	15704-02-11 19:55 G	7456869.12	7456869.33	7456869.55	0.0089	0.0016
Venus	15704-09-24 09:07 G	7457094.69	7457094.88	7457095.09	0.0089	0.0036
Venus	15705-05-07 22:04 G	7457320.27	7457320.42	7457320.61	0.0089	0.0056
Venus	15705-12-19 11:16 G	7457545.88	7457545.97	7457546.10	0.0089	0.0076
Mercury	15705-12-31 04:04 G	7457557.65	7457557.67	7457557.70	0.0089	0.0088
Mercury	15706-03-29 06:00 G	7457645.69	7457645.75	7457645.83	0.0089	0.0080
Mercury	15706-06-25 08:09 G	7457733.76	7457733.84	7457733.95	0.0089	0.0072
Mercury	15706-09-21 10:19 G	7457821.83	7457821.93	7457822.05	0.0089	0.0064
Mercury	15706-12-18 12:28 G	7457909.91	7457910.02	7457910.16	0.0089	0.0056
Mercury	15707-03-16 14:38 G	7457997.99	7457998.11	7457998.25	0.0089	0.0047
Mercury	15707-06-12 16:48 G	7458086.07	7458086.20	7458086.35	0.0089	0.0039
Mercury	15707-09-08 19:12 G	7458174.15	7458174.30	7458174.45	0.0089	0.0031
Mercury	15707-12-05 21:21 G	7458262.24	7458262.39	7458262.54	0.0089	0.0023
Mercury	15708-03-02 23:16 G	7458350.32	7458350.47	7458350.63	0.0089	0.0015
Mercury	15708-05-30 01:26 G	7458438.41	7458438.56	7458438.71	0.0089	0.0007

Mercury	15708-08-26 03:36 G	7458526.49	7458526.65	7458526.80	0.0089	0.0002
Mercury	15708-11-22 05:31 G	7458614.58	7458614.73	7458614.89	0.0089	0.0009
Mercury	15709-02-18 07:26 G	7458702.67	7458702.81	7458702.97	0.0089	0.0018
Mercury	15709-05-17 09:36 G	7458790.76	7458790.90	7458791.05	0.0089	0.0025
Mercury	15709-08-13 11:45 G	7458878.85	7458878.99	7458879.13	0.0089	0.0033
Mercury	15709-11-09 13:40 G	7458966.94	7458967.07	7458967.21	0.0089	0.0040
Mercury	15710-02-05 15:36 G	7459055.03	7459055.15	7459055.29	0.0089	0.0048
Mercury	15710-05-04 17:31 G	7459143.12	7459143.23	7459143.36	0.0089	0.0056
Mercury	15710-07-31 19:40 G	7459231.22	7459231.32	7459231.43	0.0089	0.0064
Mercury	15710-10-27 21:36 G	7459319.32	7459319.40	7459319.50	0.0089	0.0071
Mercury	15711-01-23 23:16 G	7459407.42	7459407.47	7459407.56	0.0089	0.0080
Mercury	15711-04-22 01:26 G	7459495.54	7459495.56	7459495.61	0.0089	0.0087
Moon	15724-05-19 23:45 G	7464272.41	7464272.49	7464272.61	0.0090	0.0083
Earth	15724-05-20 03:21 G	7464272.59	7464272.64	7464272.71	0.0090	0.0087 *
Earth	15725-05-22 16:19 G	7464640.09	7464640.18	7464640.29	0.0090	0.0082
Moon	15725-05-22 19:12 G	7464640.26	7464640.30	7464640.39	0.0090	0.0087 *
Moon	15726-05-25 03:36 G	7465007.52	7465007.65	7465007.81	0.0090	0.0073
Earth	15726-05-25 05:45 G	7465007.61	7465007.74	7465007.87	0.0090	0.0077 *
Earth	15727-05-27 18:28 G	7465375.13	7465375.27	7465375.43	0.0090	0.0072
Moon	15727-05-27 19:26 G	7465375.19	7465375.31	7465375.47	0.0090	0.0076 *
Earth	15728-05-29 07:12 G	7465742.64	7465742.80	7465742.98	0.0090	0.0067
Moon	15728-05-29 07:12 G	7465742.64	7465742.80	7465742.99	0.0090	0.0063 *
Moon	15729-05-31 18:14 G	7466110.10	7466110.26	7466110.46	0.0090	0.0066
Earth	15729-05-31 19:55 G	7466110.16	7466110.33	7466110.54	0.0090	0.0062 *
Earth	15730-06-03 08:24 G	7466477.68	7466477.85	7466478.08	0.0090	0.0057
Moon	15730-06-03 10:48 G	7466477.77	7466477.95	7466478.18	0.0090	0.0053 *
Moon	15731-06-05 18:14 G	7466845.07	7466845.26	7466845.48	0.0090	0.0055
Earth	15731-06-05 21:21 G	7466845.20	7466845.39	7466845.62	0.0090	0.0051 *
Earth	15732-06-07 09:50 G	7467212.71	7467212.91	7467213.15	0.0090	0.0046
Moon	15732-06-07 13:40 G	7467212.85	7467213.07	7467213.31	0.0090	0.0041 *

Moon	15733-06-09 19:12 G	7467580.09	7467580.30	7467580.54	0.0090	0.0044
Earth	15733-06-09 22:33 G	7467580.23	7467580.44	7467580.69	0.0090	0.0040 *
Earth	15734-06-12 11:16 G	7467947.74	7467947.97	7467948.22	0.0090	0.0034
Moon	15734-06-12 14:38 G	7467947.87	7467948.11	7467948.36	0.0090	0.0030 *
Moon	15735-06-14 21:36 G	7468315.19	7468315.40	7468315.65	0.0089	0.0033
Earth	15735-06-14 23:45 G	7468315.26	7468315.49	7468315.75	0.0089	0.0028 *
Earth	15736-06-16 12:14 G	7468682.77	7468683.01	7468683.27	0.0089	0.0022
Moon	15736-06-16 13:26 G	7468682.82	7468683.06	7468683.34	0.0089	0.0020 *
Moon	15737-06-19 00:28 G	7469050.29	7469050.52	7469050.77	0.0089	0.0021
Earth	15737-06-19 00:43 G	7469050.29	7469050.53	7469050.79	0.0089	0.0017 *
Moon	15738-06-21 11:45 G	7469417.73	7469417.99	7469418.26	0.0089	0.0007
Earth	15738-06-21 13:26 G	7469417.81	7469418.06	7469418.32	0.0089	0.0011 *
Earth	15739-06-24 01:40 G	7469785.32	7469785.57	7469785.83	0.0089	0.0005
Moon	15739-06-24 03:36 G	7469785.41	7469785.65	7469785.91	0.0089	0.0009 *
Moon	15740-06-25 10:48 G	7470152.69	7470152.95	7470153.22	0.0089	0.0005
Earth	15740-06-25 14:09 G	7470152.83	7470153.09	7470153.34	0.0089	0.0001 *
Earth	15741-06-28 02:09 G	7470520.33	7470520.59	7470520.85	0.0089	0.0007
Moon	15741-06-28 05:45 G	7470520.48	7470520.74	7470520.99	0.0089	0.0003 *
Moon	15742-06-30 10:33 G	7470887.70	7470887.94	7470888.20	0.0089	0.0016
Earth	15742-06-30 14:09 G	7470887.84	7470888.09	7470888.35	0.0089	0.0012 *
Earth	15743-07-03 01:55 G	7471255.34	7471255.58	7471255.84	0.0089	0.0018
Moon	15743-07-03 05:16 G	7471255.48	7471255.72	7471255.99	0.0089	0.0016 *
Moon	15744-07-04 12:00 G	7471622.76	7471623.00	7471623.24	0.0089	0.0027
Earth	15744-07-04 13:55 G	7471622.84	7471623.08	7471623.33	0.0089	0.0024 *
Earth	15745-07-07 01:40 G	7471990.34	7471990.57	7471990.82	0.0089	0.0029
Moon	15745-07-07 03:36 G	7471990.39	7471990.65	7471990.90	0.0089	0.0027 *
Moon	15746-07-09 13:26 G	7472357.84	7472358.06	7472358.29	0.0089	0.0037
Earth	15746-07-09 13:40 G	7472357.84	7472358.07	7472358.31	0.0089	0.0035 *
Moon	15747-07-11 23:31 G	7472725.26	7472725.48	7472725.74	0.0089	0.0038
Earth	15747-07-12 01:12 G	7472725.33	7472725.55	7472725.79	0.0089	0.0040 *

Earth	15748-07-13 12:57 G	7473092.83	7473093.04	7473093.27	0.0089	0.0046
Moon	15748-07-13 14:38 G	7473092.92	7473093.11	7473093.34	0.0089	0.0048 *
Moon	15749-07-15 21:21 G	7473460.19	7473460.39	7473460.63	0.0089	0.0049
Earth	15749-07-16 00:28 G	7473460.33	7473460.52	7473460.75	0.0089	0.0052 *
Earth	15750-07-18 12:14 G	7473827.83	7473828.01	7473828.22	0.0089	0.0056
Moon	15750-07-18 15:36 G	7473827.98	7473828.15	7473828.36	0.0089	0.0060 *
Moon	15751-07-20 20:52 G	7474195.18	7474195.37	7474195.56	0.0089	0.0059
Earth	15751-07-21 00:14 G	7474195.33	7474195.51	7474195.70	0.0089	0.0061 *
Earth	15752-07-22 11:31 G	7474562.82	7474562.98	7474563.16	0.0089	0.0067
Moon	15752-07-22 14:52 G	7474562.97	7474563.12	7474563.30	0.0089	0.0068 *
Moon	15753-07-24 20:52 G	7474930.23	7474930.37	7474930.54	0.0089	0.0070
Earth	15753-07-24 23:02 G	7474930.32	7474930.46	7474930.63	0.0089	0.0071 *
Earth	15754-07-27 10:19 G	7475297.82	7475297.93	7475298.08	0.0089	0.0076
Moon	15754-07-27 11:45 G	7475297.88	7475297.99	7475298.14	0.0089	0.0078 *
Moon	15755-07-29 21:36 G	7475665.30	7475665.40	7475665.52	0.0089	0.0079
Earth	15755-07-29 21:21 G	7475665.31	7475665.39	7475665.52	0.0089	0.0081 *
Moon	15756-07-31 07:12 G	7476032.77	7476032.80	7476032.86	0.0089	0.0087
Earth	15756-07-31 08:52 G	7476032.81	7476032.87	7476032.95	0.0089	0.0085 *
Moon	15757-08-02 21:50 G	7476400.41	7476400.41	7476400.44	0.0089	0.0089
Mars	15761-03-20 04:48 G	7477725.38	7477725.70	7477726.02	0.0089	0.0003
Mars	15763-02-13 05:31 G	7478420.69	7478420.73	7478420.86	0.0089	0.0086
Venus	15782-07-16 09:50 G	7485513.83	7485513.91	7485513.99	0.0088	0.0081
Venus	15783-02-26 22:19 G	7485739.29	7485739.43	7485739.59	0.0088	0.0062
Venus	15783-10-10 10:48 G	7485964.77	7485964.95	7485965.16	0.0088	0.0043
Venus	15784-05-22 23:45 G	7486190.28	7486190.49	7486190.70	0.0088	0.0023
Venus	15785-01-03 12:28 G	7486415.80	7486416.02	7486416.24	0.0088	0.0004
Venus	15785-08-17 01:12 G	7486641.33	7486641.55	7486641.77	0.0088	0.0015
Venus	15786-03-30 13:40 G	7486866.88	7486867.07	7486867.28	0.0088	0.0035
Venus	15786-11-11 02:09 G	7487092.43	7487092.59	7487092.78	0.0088	0.0054
Venus	15787-06-24 14:38 G	7487318.02	7487318.11	7487318.26	0.0088	0.0074

Mercury	15787-09-26 05:31 G	7487411.68	7487411.73	7487411.78	0.0088	0.0082
Mercury	15787-12-23 07:12 G	7487499.74	7487499.80	7487499.90	0.0088	0.0075
Mercury	15788-03-20 09:36 G	7487587.80	7487587.90	7487588.00	0.0088	0.0067
Mercury	15788-06-16 11:31 G	7487675.88	7487675.98	7487676.11	0.0088	0.0060
Mercury	15788-09-12 13:40 G	7487763.95	7487764.07	7487764.21	0.0088	0.0052
Mercury	15788-12-09 16:04 G	7487852.03	7487852.17	7487852.31	0.0088	0.0044
Jupiter	15788-12-15 23:31 G	7487858.21	7487858.48	7487858.85	0.0088	0.0073
Mercury	15789-03-07 18:00 G	7487940.11	7487940.25	7487940.40	0.0088	0.0037
Mercury	15789-06-03 20:09 G	7488028.20	7488028.34	7488028.50	0.0088	0.0029
Mercury	15789-08-30 22:33 G	7488116.28	7488116.44	7488116.59	0.0088	0.0021
Mercury	15789-11-27 00:43 G	7488204.37	7488204.53	7488204.69	0.0088	0.0013
Mercury	15790-02-23 02:52 G	7488292.46	7488292.62	7488292.78	0.0088	0.0005
Mercury	15790-05-22 05:02 G	7488380.55	7488380.71	7488380.87	0.0088	0.0002
Mercury	15790-08-18 07:12 G	7488468.64	7488468.80	7488468.96	0.0088	0.0010
Mercury	15790-11-14 09:36 G	7488556.74	7488556.90	7488557.05	0.0088	0.0018
Mercury	15791-02-10 11:45 G	7488644.83	7488644.99	7488645.14	0.0088	0.0026
Mercury	15791-05-09 13:55 G	7488732.93	7488733.08	7488733.23	0.0088	0.0034
Mercury	15791-08-05 16:04 G	7488821.03	7488821.17	7488821.32	0.0088	0.0042
Mercury	15791-11-01 18:14 G	7488909.14	7488909.26	7488909.40	0.0088	0.0050
Mercury	15792-01-28 20:38 G	7488997.24	7488997.36	7488997.48	0.0088	0.0058
Mercury	15792-04-25 22:48 G	7489085.35	7489085.45	7489085.56	0.0088	0.0066
Mercury	15792-07-23 01:12 G	7489173.47	7489173.55	7489173.64	0.0088	0.0074
Mercury	15792-10-19 03:21 G	7489261.59	7489261.64	7489261.70	0.0088	0.0082
Earth	15805-11-16 13:40 G	7494037.04	7494037.07	7494037.13	0.0088	0.0086
Earth	15806-11-18 23:45 G	7494404.42	7494404.49	7494404.60	0.0088	0.0082
Moon	15806-11-19 00:57 G	7494404.46	7494404.54	7494404.67	0.0088	0.0080 *
Earth	15807-11-21 09:50 G	7494771.82	7494771.91	7494772.06	0.0088	0.0078
Moon	15807-11-21 10:19 G	7494771.84	7494771.93	7494772.05	0.0088	0.0079 *
Moon	15808-11-22 19:26 G	7495139.18	7495139.31	7495139.49	0.0088	0.0071
Earth	15808-11-22 20:38 G	7495139.23	7495139.36	7495139.52	0.0088	0.0073 *

Earth	15809-11-25 06:57 G	7495506.64	7495506.79	7495506.96	0.0088	0.0068
Moon	15809-11-25 09:21 G	7495506.75	7495506.89	7495507.05	0.0088	0.0070 *
Moon	15810-11-27 14:09 G	7495873.92	7495874.09	7495874.29	0.0088	0.0062
Earth	15810-11-27 17:02 G	7495874.06	7495874.21	7495874.42	0.0088	0.0064 *
Earth	15811-11-30 03:36 G	7496241.48	7496241.65	7496241.86	0.0088	0.0059
Moon	15811-11-30 07:26 G	7496241.64	7496241.81	7496242.00	0.0088	0.0061 *
Moon	15812-12-01 10:48 G	7496608.76	7496608.95	7496609.17	0.0088	0.0052
Earth	15812-12-01 14:09 G	7496608.91	7496609.09	7496609.32	0.0088	0.0054 *
Earth	15813-12-04 00:43 G	7496976.34	7496976.53	7496976.77	0.0088	0.0049
Moon	15813-12-04 03:50 G	7496976.46	7496976.66	7496976.89	0.0088	0.0051 *
Moon	15814-12-06 09:36 G	7497343.68	7497343.90	7497344.13	0.0088	0.0041
Earth	15814-12-06 11:31 G	7497343.78	7497343.98	7497344.23	0.0088	0.0044 *
Earth	15815-12-08 22:19 G	7497711.22	7497711.43	7497711.68	0.0088	0.0039
Moon	15815-12-08 23:16 G	7497711.25	7497711.47	7497711.73	0.0088	0.0041 *
Earth	15816-12-10 09:36 G	7498078.66	7498078.90	7498079.14	0.0088	0.0033
Moon	15816-12-10 09:36 G	7498078.69	7498078.90	7498079.15	0.0088	0.0032 *
Moon	15817-12-12 18:28 G	7498446.04	7498446.27	7498446.54	0.0088	0.0031
Earth	15817-12-12 20:09 G	7498446.10	7498446.34	7498446.59	0.0088	0.0028 *
Earth	15818-12-15 06:57 G	7498813.55	7498813.79	7498814.05	0.0088	0.0023
Moon	15818-12-15 09:50 G	7498813.67	7498813.91	7498814.16	0.0088	0.0020 *
Moon	15819-12-17 14:24 G	7499180.86	7499181.10	7499181.37	0.0088	0.0020
Earth	15819-12-17 17:45 G	7499181.00	7499181.24	7499181.51	0.0088	0.0018 *
Earth	15820-12-19 04:33 G	7499548.44	7499548.69	7499548.95	0.0088	0.0012
Moon	15820-12-19 08:09 G	7499548.59	7499548.84	7499549.10	0.0088	0.0009 *
Moon	15821-12-21 12:14 G	7499915.76	7499916.01	7499916.27	0.0088	0.0009
Earth	15821-12-21 15:36 G	7499915.90	7499916.15	7499916.41	0.0088	0.0007 *
Earth	15822-12-24 02:38 G	7500283.35	7500283.61	7500283.87	0.0088	0.0001
Moon	15822-12-24 05:31 G	7500283.46	7500283.73	7500283.99	0.0088	0.0002 *
Moon	15823-12-26 11:31 G	7500650.73	7500650.98	7500651.24	0.0088	0.0002
Earth	15823-12-26 13:40 G	7500650.82	7500651.07	7500651.33	0.0088	0.0005 *

Earth	15824-12-28 00:43 G	7501018.28	7501018.53	7501018.80	0.0088	0.0010
Moon	15824-12-28 01:12 G	7501018.30	7501018.55	7501018.83	0.0088	0.0013 *
Earth	15825-12-30 12:00 G	7501385.75	7501386.00	7501386.26	0.0088	0.0015
Moon	15825-12-30 12:28 G	7501385.78	7501386.02	7501386.28	0.0088	0.0013 *
Moon	15827-01-01 21:36 G	7501753.16	7501753.40	7501753.68	0.0088	0.0024
Earth	15827-01-01 23:31 G	7501753.23	7501753.48	7501753.73	0.0088	0.0020 *
Earth	15828-01-04 10:33 G	7502120.71	7502120.94	7502121.20	0.0088	0.0026
Moon	15828-01-04 13:40 G	7502120.83	7502121.07	7502121.32	0.0088	0.0023 *
Moon	15829-01-05 18:43 G	7502488.05	7502488.28	7502488.53	0.0088	0.0034
Earth	15829-01-05 22:04 G	7502488.19	7502488.42	7502488.68	0.0088	0.0031 *
Earth	15830-01-08 09:21 G	7502855.67	7502855.89	7502856.15	0.0088	0.0037
Moon	15830-01-08 12:57 G	7502855.82	7502856.04	7502856.30	0.0088	0.0033 *
Moon	15831-01-10 17:45 G	7503223.03	7503223.24	7503223.47	0.0088	0.0045
Earth	15831-01-10 21:07 G	7503223.17	7503223.38	7503223.62	0.0088	0.0042 *
Earth	15832-01-13 08:38 G	7503590.65	7503590.86	7503591.09	0.0088	0.0047
Moon	15832-01-13 11:31 G	7503590.76	7503590.98	7503591.22	0.0088	0.0043 *
Moon	15833-01-14 18:00 G	7503958.08	7503958.25	7503958.47	0.0088	0.0057
Earth	15833-01-14 20:09 G	7503958.15	7503958.34	7503958.57	0.0088	0.0052 *
Earth	15834-01-17 07:40 G	7504325.65	7504325.82	7504326.04	0.0088	0.0058
Moon	15834-01-17 08:24 G	7504325.65	7504325.85	7504326.08	0.0088	0.0054 *
Earth	15835-01-19 19:26 G	7504693.15	7504693.31	7504693.52	0.0088	0.0062
Moon	15835-01-19 20:24 G	7504693.19	7504693.35	7504693.53	0.0088	0.0066 *
Moon	15836-01-22 05:31 G	7505060.57	7505060.73	7505060.95	0.0088	0.0064
Earth	15836-01-22 07:12 G	7505060.66	7505060.80	7505060.99	0.0088	0.0068 *
Earth	15837-01-23 18:43 G	7505428.16	7505428.28	7505428.46	0.0088	0.0073
Moon	15837-01-23 22:33 G	7505428.31	7505428.44	7505428.56	0.0088	0.0076 *
Moon	15838-01-26 03:36 G	7505795.53	7505795.65	7505795.83	0.0088	0.0073
Earth	15838-01-26 07:26 G	7505795.69	7505795.81	7505795.94	0.0088	0.0077 *
Earth	15839-01-28 18:57 G	7506163.22	7506163.29	7506163.42	0.0088	0.0082
Moon	15839-01-28 23:02 G	7506163.41	7506163.46	7506163.53	0.0088	0.0086 *



Moon	15840-01-31 04:19 G	7506530.59	7506530.68	7506530.78	0.0088	0.0082
Earth	15840-01-31 07:40 G	7506530.77	7506530.82	7506530.89	0.0088	0.0086 *
Mars	15843-02-21 11:31 G	7507647.79	7507647.98	7507648.21	0.0088	0.0066
Mars	15845-01-16 02:09 G	7508342.29	7508342.59	7508342.90	0.0088	0.0020
Venus	15865-11-25 21:21 G	7515961.30	7515961.39	7515961.52	0.0089	0.0078
Venus	15866-07-09 10:48 G	7516186.80	7516186.95	7516187.13	0.0089	0.0057
Venus	15867-02-20 00:14 G	7516412.32	7516412.51	7516412.72	0.0089	0.0037
Venus	15867-10-03 13:40 G	7516637.86	7516638.07	7516638.29	0.0089	0.0017
Venus	15868-05-16 02:52 G	7516863.41	7516863.62	7516863.85	0.0089	0.0005
Venus	15868-12-27 16:04 G	7517088.97	7517089.17	7517089.40	0.0089	0.0025
Venus	15869-08-10 05:16 G	7517314.55	7517314.72	7517314.93	0.0089	0.0045
Venus	15870-03-23 18:43 G	7517540.14	7517540.28	7517540.44	0.0089	0.0065
Mercury	15870-09-28 02:09 G	7517728.57	7517728.59	7517728.62	0.0089	0.0088
Venus	15870-11-04 07:55 G	7517765.77	7517765.83	7517765.91	0.0089	0.0085
Mercury	15870-12-25 04:19 G	7517816.62	7517816.68	7517816.76	0.0089	0.0079
Mercury	15871-03-23 06:14 G	7517904.68	7517904.76	7517904.87	0.0089	0.0072
Mercury	15871-06-19 08:24 G	7517992.76	7517992.85	7517992.98	0.0089	0.0064
Mercury	15871-09-15 10:33 G	7518080.83	7518080.94	7518081.08	0.0089	0.0056
Mercury	15871-12-12 13:12 G	7518168.91	7518169.05	7518169.18	0.0089	0.0047
Mercury	15872-03-09 15:07 G	7518256.99	7518257.13	7518257.28	0.0089	0.0039
Mercury	15872-06-05 17:16 G	7518345.08	7518345.22	7518345.37	0.0089	0.0031
Mercury	15872-09-01 19:26 G	7518433.16	7518433.31	7518433.46	0.0089	0.0023
Mercury	15872-11-28 21:36 G	7518521.25	7518521.40	7518521.55	0.0089	0.0015
Mercury	15873-02-24 23:31 G	7518609.33	7518609.48	7518609.64	0.0089	0.0007
Mercury	15873-05-24 01:40 G	7518697.42	7518697.57	7518697.73	0.0089	0.0002
Mercury	15873-08-20 03:50 G	7518785.50	7518785.66	7518785.81	0.0089	0.0009
Mercury	15873-11-16 05:45 G	7518873.59	7518873.74	7518873.90	0.0089	0.0017
Mercury	15874-02-12 07:40 G	7518961.68	7518961.82	7518961.98	0.0089	0.0026
Mercury	15874-05-11 09:50 G	7519049.77	7519049.91	7519050.06	0.0089	0.0033
Mercury	15874-08-07 12:00 G	7519137.86	7519138.00	7519138.14	0.0089	0.0041

Mercury	15874-11-03 13:55 G	7519225.96	7519226.08	7519226.21	0.0089	0.0048
Mercury	15875-01-30 15:50 G	7519314.05	7519314.16	7519314.29	0.0089	0.0056
Mercury	15875-04-28 17:45 G	7519402.15	7519402.24	7519402.36	0.0089	0.0064
Mercury	15875-07-25 19:55 G	7519490.25	7519490.33	7519490.43	0.0089	0.0072
Mercury	15875-10-21 21:50 G	7519578.35	7519578.41	7519578.49	0.0089	0.0079
Mercury	15876-01-18 00:00 G	7519666.47	7519666.50	7519666.53	0.0089	0.0087
Earth	15888-05-20 05:31 G	7524172.68	7524172.73	7524172.82	0.0090	0.0086
Moon	15888-05-20 07:26 G	7524172.76	7524172.81	7524172.92	0.0090	0.0086 *
Moon	15889-05-22 17:16 G	7524540.12	7524540.22	7524540.33	0.0090	0.0081
Earth	15889-05-22 18:14 G	7524540.19	7524540.26	7524540.40	0.0090	0.0082 *
Moon	15890-05-25 07:55 G	7524907.70	7524907.83	7524907.98	0.0090	0.0076
Earth	15890-05-25 07:26 G	7524907.71	7524907.81	7524907.97	0.0090	0.0077 *
Earth	15891-05-27 20:24 G	7525275.22	7525275.35	7525275.53	0.0090	0.0072
Moon	15891-05-27 21:50 G	7525275.28	7525275.41	7525275.57	0.0090	0.0072 *
Moon	15892-05-29 07:55 G	7525642.66	7525642.83	7525643.01	0.0090	0.0067
Earth	15892-05-29 09:36 G	7525642.75	7525642.90	7525643.09	0.0090	0.0067 *
Earth	15893-05-31 22:33 G	7526010.27	7526010.44	7526010.65	0.0090	0.0062
Moon	15893-06-01 01:40 G	7526010.41	7526010.57	7526010.78	0.0090	0.0062 *
Moon	15894-06-03 07:55 G	7526377.65	7526377.83	7526378.05	0.0090	0.0057
Earth	15894-06-03 11:16 G	7526377.80	7526377.97	7526378.19	0.0090	0.0057 *
Earth	15895-06-06 00:28 G	7526745.31	7526745.52	7526745.73	0.0090	0.0051
Moon	15895-06-06 03:36 G	7526745.46	7526745.65	7526745.89	0.0090	0.0050 *
Moon	15896-06-07 09:36 G	7527112.70	7527112.90	7527113.13	0.0090	0.0047
Earth	15896-06-07 12:57 G	7527112.83	7527113.04	7527113.27	0.0090	0.0046 *
Earth	15897-06-10 01:26 G	7527480.35	7527480.56	7527480.80	0.0090	0.0041
Moon	15897-06-10 04:04 G	7527480.44	7527480.67	7527480.92	0.0090	0.0039 *
Moon	15898-06-12 12:28 G	7527847.80	7527848.02	7527848.25	0.0090	0.0037
Earth	15898-06-12 14:24 G	7527847.86	7527848.10	7527848.34	0.0090	0.0035 *
Earth	15899-06-15 02:38 G	7528215.37	7528215.61	7528215.86	0.0090	0.0030
Moon	15899-06-15 02:38 G	7528215.37	7528215.61	7528215.88	0.0090	0.0029 *

Earth	15900-06-17 15:21 G	7528582.89	7528583.14	7528583.39	0.0090	0.0024
Moon	15900-06-17 15:50 G	7528582.94	7528583.16	7528583.41	0.0090	0.0026 *
Moon	15901-06-20 01:55 G	7528950.33	7528950.58	7528950.85	0.0089	0.0017
Earth	15901-06-20 03:36 G	7528950.41	7528950.65	7528950.92	0.0089	0.0019 *
Earth	15902-06-22 16:19 G	7529317.92	7529318.18	7529318.43	0.0089	0.0013
Moon	15902-06-22 19:12 G	7529318.06	7529318.30	7529318.55	0.0089	0.0015 *
Moon	15903-06-25 01:26 G	7529685.30	7529685.56	7529685.82	0.0089	0.0005
Earth	15903-06-25 04:48 G	7529685.45	7529685.70	7529685.96	0.0089	0.0007 *
Earth	15904-06-26 17:16 G	7530052.96	7530053.22	7530053.48	0.0089	0.0002
Moon	15904-06-26 20:52 G	7530053.11	7530053.37	7530053.63	0.0089	0.0005 *
Moon	15905-06-29 02:24 G	7530420.35	7530420.60	7530420.86	0.0089	0.0006
Earth	15905-06-29 05:45 G	7530420.48	7530420.74	7530421.00	0.0089	0.0004 *
Earth	15906-07-01 18:00 G	7530787.99	7530788.25	7530788.50	0.0089	0.0010
Moon	15906-07-01 20:38 G	7530788.10	7530788.36	7530788.62	0.0089	0.0007 *
Moon	15907-07-04 03:50 G	7531155.43	7531155.66	7531155.92	0.0089	0.0019
Earth	15907-07-04 05:45 G	7531155.50	7531155.74	7531156.01	0.0089	0.0016 *
Earth	15908-07-05 18:00 G	7531523.01	7531523.25	7531523.51	0.0089	0.0021
Moon	15908-07-05 18:00 G	7531523.01	7531523.25	7531523.53	0.0089	0.0019 *
Earth	15909-07-08 05:45 G	7531890.51	7531890.74	7531891.00	0.0089	0.0026
Moon	15909-07-08 06:43 G	7531890.55	7531890.78	7531891.02	0.0089	0.0029 *
Moon	15910-07-10 15:50 G	7532257.93	7532258.16	7532258.43	0.0089	0.0029
Earth	15910-07-10 17:45 G	7532258.01	7532258.24	7532258.49	0.0089	0.0031 *
Earth	15911-07-13 05:31 G	7532625.51	7532625.73	7532625.97	0.0089	0.0037
Moon	15911-07-13 08:38 G	7532625.64	7532625.86	7532626.09	0.0089	0.0039 *
Moon	15912-07-14 13:55 G	7532992.87	7532993.08	7532993.33	0.0089	0.0039
Earth	15912-07-14 17:16 G	7532993.01	7532993.22	7532993.46	0.0089	0.0042 *
Earth	15913-07-17 04:48 G	7533360.51	7533360.70	7533360.94	0.0089	0.0048
Moon	15913-07-17 08:24 G	7533360.67	7533360.85	7533361.09	0.0089	0.0052 *
Moon	15914-07-19 13:26 G	7533727.87	7533728.06	7533728.29	0.0089	0.0050
Earth	15914-07-19 16:48 G	7533728.01	7533728.20	7533728.42	0.0089	0.0052 *

Earth	15915-07-22 04:19 G	7534095.50	7534095.68	7534095.89	0.0089	0.0057
Moon	15915-07-22 07:26 G	7534095.62	7534095.81	7534096.00	0.0089	0.0061 *
Moon	15916-07-23 14:24 G	7534462.92	7534463.10	7534463.30	0.0089	0.0058
Earth	15916-07-23 16:04 G	7534463.01	7534463.17	7534463.37	0.0089	0.0062 *
Earth	15917-07-26 03:36 G	7534830.51	7534830.65	7534830.84	0.0089	0.0067
Moon	15917-07-26 03:50 G	7534830.52	7534830.66	7534830.85	0.0089	0.0070 *
Earth	15918-07-28 15:36 G	7535198.00	7535198.15	7535198.30	0.0089	0.0072
Moon	15918-07-28 16:04 G	7535198.02	7535198.17	7535198.34	0.0089	0.0068 *
Moon	15919-07-31 00:43 G	7535565.44	7535565.53	7535565.67	0.0089	0.0080
Earth	15919-07-31 02:38 G	7535565.50	7535565.61	7535565.76	0.0089	0.0076 *
Earth	15920-08-01 13:40 G	7535933.00	7535933.07	7535933.21	0.0089	0.0081
Moon	15920-08-01 17:02 G	7535933.10	7535933.21	7535933.35	0.0089	0.0077 *
Moon	15921-08-03 22:19 G	7536300.41	7536300.43	7536300.46	0.0089	0.0088
Earth	15921-08-04 00:57 G	7536300.50	7536300.54	7536300.65	0.0089	0.0085
Moon	15922-08-06 15:50 G	7536668.11	7536668.16	7536668.26	0.0089	0.0085
Mars	15924-11-03 08:24 G	7537487.59	7537487.85	7537488.15	0.0089	0.0043
Mars	15926-09-29 06:57 G	7538182.54	7538182.79	7538183.09	0.0089	0.0045
Venus	15947-06-02 06:43 G	7545733.67	7545733.78	7545733.92	0.0088	0.0073
Venus	15948-01-13 19:26 G	7545959.15	7545959.31	7545959.50	0.0088	0.0053
Venus	15948-08-26 08:24 G	7546184.65	7546184.85	7546185.06	0.0088	0.0034
Venus	15949-04-08 21:07 G	7546410.17	7546410.38	7546410.60	0.0088	0.0014
Venus	15949-11-20 09:50 G	7546635.69	7546635.91	7546636.13	0.0088	0.0005
Venus	15950-07-03 22:19 G	7546861.23	7546861.43	7546861.65	0.0088	0.0025
Venus	15951-02-14 11:02 G	7547086.78	7547086.96	7547087.16	0.0088	0.0044
Venus	15951-09-28 00:00 G	7547312.35	7547312.50	7547312.65	0.0088	0.0063
Venus	15952-05-10 12:00 G	7547537.95	7547538.00	7547538.10	0.0088	0.0083
Mercury	15952-06-24 03:50 G	7547582.61	7547582.66	7547582.72	0.0088	0.0081
Mercury	15952-09-20 05:45 G	7547670.67	7547670.74	7547670.84	0.0088	0.0074
Mercury	15952-12-17 07:55 G	7547758.74	7547758.83	7547758.94	0.0088	0.0066
Mercury	15953-03-15 10:19 G	7547846.81	7547846.93	7547847.05	0.0088	0.0058

Mercury	15953-06-11 12:00 G	7547934.89	7547935.00	7547935.14	0.0088	0.0051
Mercury	15953-09-07 14:24 G	7548022.97	7548023.10	7548023.24	0.0088	0.0043
Mercury	15953-12-04 16:33 G	7548111.05	7548111.19	7548111.34	0.0088	0.0035
Mercury	15954-03-02 18:43 G	7548199.13	7548199.28	7548199.43	0.0088	0.0028
Mercury	15954-05-29 20:52 G	7548287.22	7548287.37	7548287.53	0.0088	0.0020
Mercury	15954-08-25 23:02 G	7548375.30	7548375.46	7548375.62	0.0088	0.0012
Mercury	15954-11-22 01:12 G	7548463.39	7548463.55	7548463.71	0.0088	0.0005
Mercury	15955-02-18 03:36 G	7548551.49	7548551.65	7548551.81	0.0088	0.0004
Mercury	15955-05-17 05:31 G	7548639.58	7548639.73	7548639.90	0.0088	0.0012
Mercury	15955-08-13 07:55 G	7548727.67	7548727.83	7548727.99	0.0088	0.0019
Mercury	15955-11-09 10:04 G	7548815.77	7548815.92	7548816.07	0.0088	0.0027
Mercury	15956-02-05 12:14 G	7548903.87	7548904.01	7548904.16	0.0088	0.0035
Mercury	15956-05-03 14:24 G	7548991.97	7548992.10	7548992.25	0.0088	0.0043
Mercury	15956-07-30 16:48 G	7549080.07	7549080.20	7549080.33	0.0088	0.0051
Mercury	15956-10-26 18:57 G	7549168.18	7549168.29	7549168.41	0.0088	0.0059
Mercury	15957-01-22 21:21 G	7549256.29	7549256.39	7549256.49	0.0088	0.0067
Mercury	15957-04-20 23:31 G	7549344.40	7549344.48	7549344.57	0.0088	0.0075
Mercury	15957-07-18 01:26 G	7549432.53	7549432.56	7549432.63	0.0088	0.0084
Moon	15968-11-14 08:09 G	7553569.81	7553569.84	7553569.94	0.0088	0.0085
Earth	15969-11-16 19:55 G	7553937.30	7553937.33	7553937.43	0.0088	0.0085
Earth	15970-11-19 06:28 G	7554304.70	7554304.77	7554304.90	0.0088	0.0081
Moon	15970-11-19 07:26 G	7554304.70	7554304.81	7554304.94	0.0088	0.0076 *
Moon	15971-11-21 15:21 G	7554672.04	7554672.14	7554672.25	0.0088	0.0080
Earth	15971-11-21 17:16 G	7554672.10	7554672.22	7554672.36	0.0088	0.0076 *
Earth	15972-11-23 03:07 G	7555039.51	7555039.63	7555039.80	0.0088	0.0072
Moon	15972-11-23 05:45 G	7555039.60	7555039.74	7555039.92	0.0088	0.0068 *
Moon	15973-11-25 10:04 G	7555406.79	7555406.92	7555407.09	0.0088	0.0072
Earth	15973-11-25 14:09 G	7555406.93	7555407.09	7555407.25	0.0088	0.0067 *
Earth	15974-11-28 00:00 G	7555774.34	7555774.50	7555774.70	0.0088	0.0063
Moon	15974-11-28 03:50 G	7555774.47	7555774.66	7555774.86	0.0088	0.0058 *

Moon	15975-11-30 07:26 G	7556141.64	7556141.81	7556142.00	0.0088	0.0062
Earth	15975-11-30 10:33 G	7556141.76	7556141.94	7556142.15	0.0088	0.0058 *
Earth	15976-12-01 20:52 G	7556509.19	7556509.37	7556509.59	0.0088	0.0054
Moon	15976-12-01 23:45 G	7556509.29	7556509.49	7556509.73	0.0088	0.0049 *
Moon	15977-12-04 06:14 G	7556876.58	7556876.76	7556876.98	0.0088	0.0053
Earth	15977-12-04 07:26 G	7556876.61	7556876.81	7556877.04	0.0088	0.0049 *
Earth	15978-12-06 18:14 G	7557244.05	7557244.26	7557244.50	0.0088	0.0044
Moon	15978-12-06 18:43 G	7557244.06	7557244.28	7557244.54	0.0088	0.0040 *
Earth	15979-12-09 05:02 G	7557611.49	7557611.71	7557611.95	0.0088	0.0039
Moon	15979-12-09 06:00 G	7557611.54	7557611.75	7557611.98	0.0088	0.0043 *
Moon	15980-12-10 13:12 G	7557978.82	7557979.05	7557979.32	0.0088	0.0030
Earth	15980-12-10 15:36 G	7557978.93	7557979.15	7557979.41	0.0088	0.0034 *
Earth	15981-12-13 02:24 G	7558346.37	7558346.60	7558346.86	0.0088	0.0029
Moon	15981-12-13 05:16 G	7558346.50	7558346.72	7558346.97	0.0088	0.0033 *
Moon	15982-12-15 10:04 G	7558713.67	7558713.92	7558714.17	0.0088	0.0019
Earth	15982-12-15 13:26 G	7558713.83	7558714.06	7558714.32	0.0088	0.0024 *
Earth	15983-12-18 00:14 G	7559081.27	7559081.51	7559081.77	0.0088	0.0019
Moon	15983-12-18 03:36 G	7559081.41	7559081.65	7559081.92	0.0088	0.0023 *
Moon	15984-12-19 08:09 G	7559448.59	7559448.84	7559449.10	0.0088	0.0010
Earth	15984-12-19 11:16 G	7559448.72	7559448.97	7559449.23	0.0088	0.0013 *
Earth	15985-12-21 22:04 G	7559816.17	7559816.42	7559816.68	0.0088	0.0008
Moon	15985-12-22 00:43 G	7559816.27	7559816.53	7559816.80	0.0088	0.0012 *
Moon	15986-12-24 08:09 G	7560183.59	7560183.84	7560184.09	0.0088	0.0002
Earth	15986-12-24 09:07 G	7560183.63	7560183.88	7560184.14	0.0088	0.0003 *
Earth	15987-12-26 20:09 G	7560551.08	7560551.34	7560551.60	0.0088	0.0002
Moon	15987-12-26 20:24 G	7560551.09	7560551.35	7560551.62	0.0088	0.0002 *
Earth	15988-12-28 06:57 G	7560918.54	7560918.79	7560919.05	0.0088	0.0008
Moon	15988-12-28 08:24 G	7560918.60	7560918.85	7560919.09	0.0088	0.0011 *
Moon	15989-12-30 15:21 G	7561285.89	7561286.14	7561286.42	0.0088	0.0009
Earth	15989-12-30 18:00 G	7561286.00	7561286.25	7561286.52	0.0088	0.0013 *

Earth	15991-01-02 05:16 G	7561653.47	7561653.72	7561653.98	0.0088	0.0018	
Moon	15991-01-02 08:09 G	7561653.60	7561653.84	7561654.09	0.0088	0.0021	*
Moon	15992-01-04 12:43 G	7562020.78	7562021.03	7562021.29	0.0088	0.0019	
Earth	15992-01-04 16:33 G	7562020.95	7562021.19	7562021.45	0.0088	0.0023	*
Earth	15993-01-06 03:50 G	7562388.42	7562388.66	7562388.91	0.0088	0.0028	
Moon	15993-01-06 07:12 G	7562388.57	7562388.80	7562389.05	0.0088	0.0032	*
Moon	15994-01-08 12:14 G	7562755.78	7562756.01	7562756.26	0.0088	0.0030	
Earth	15994-01-08 15:21 G	7562755.91	7562756.14	7562756.39	0.0088	0.0033	*
Earth	15995-01-11 02:52 G	7563123.39	7563123.62	7563123.86	0.0088	0.0038	
Moon	15995-01-11 04:48 G	7563123.49	7563123.70	7563123.96	0.0088	0.0042	*
Moon	15996-01-13 13:26 G	7563490.85	7563491.06	7563491.30	0.0088	0.0040	
Earth	15996-01-13 14:24 G	7563490.88	7563491.10	7563491.33	0.0088	0.0043	*
Earth	15997-01-15 01:40 G	7563858.37	7563858.57	7563858.80	0.0088	0.0048	
Moon	15997-01-15 01:40 G	7563858.37	7563858.57	7563858.81	0.0088	0.0051	*
Earth	15998-01-17 13:12 G	7564225.86	7564226.05	7564226.27	0.0088	0.0053	
Moon	15998-01-17 14:24 G	7564225.92	7564226.10	7564226.33	0.0088	0.0051	*
Moon	15999-01-19 22:19 G	7564593.26	7564593.43	7564593.64	0.0088	0.0061	
Earth	15999-01-20 00:43 G	7564593.36	7564593.53	7564593.75	0.0088	0.0058	*
Earth	16000-01-22 12:43 G	7564960.85	7564961.03	7564961.22	0.0088	0.0063	
Moon	16000-01-22 15:07 G	7564960.97	7564961.13	7564961.34	0.0088	0.0061	*

# 17TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 17th millennium CE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
--------	-----------------	---	-------	-----	-----	--------	-------	---

## TIME

Moon	16001-01-23 20:38 G	7565328.21	7565328.36	7565328.52	0.0088	0.0071
Earth	16001-01-24 00:14 G	7565328.36	7565328.51	7565328.69	0.0088	0.0067 *
Earth	16002-01-26 11:45 G	7565695.87	7565695.99	7565696.16	0.0088	0.0072
Moon	16002-01-26 15:07 G	7565695.99	7565696.13	7565696.32	0.0088	0.0069 *
Moon	16003-01-28 20:52 G	7566063.27	7566063.37	7566063.49	0.0088	0.0079
Earth	16003-01-28 23:45 G	7566063.38	7566063.49	7566063.64	0.0088	0.0077 *
Earth	16004-01-31 12:00 G	7566430.90	7566431.00	7566431.11	0.0088	0.0081
Moon	16004-01-31 13:40 G	7566430.98	7566431.07	7566431.23	0.0088	0.0079 *
Earth	16005-02-01 23:31 G	7566798.44	7566798.48	7566798.58	0.0088	0.0085
Moon	16005-02-01 23:02 G	7566798.45	7566798.46	7566798.50	0.0088	0.0088 *
Moon	16006-02-04 11:45 G	7567165.98	7567165.99	7567166.07	0.0088	0.0088
Mars	16008-08-31 13:40 G	7568104.77	7568105.07	7568105.38	0.0088	0.0019
Mars	16010-07-27 03:36 G	7568799.45	7568799.65	7568799.86	0.0088	0.0066
Venus	16030-02-28 05:16 G	7575955.70	7575955.72	7575955.75	0.0089	0.0089
Venus	16030-10-11 18:28 G	7576181.14	7576181.27	7576181.42	0.0089	0.0068
Venus	16031-05-25 07:40 G	7576406.64	7576406.82	7576407.01	0.0089	0.0048
Venus	16032-01-05 21:07 G	7576632.18	7576632.38	7576632.60	0.0089	0.0028
Venus	16032-08-18 10:33 G	7576857.72	7576857.94	7576858.16	0.0089	0.0008
Venus	16033-03-31 23:45 G	7577083.28	7577083.49	7577083.71	0.0089	0.0013
Venus	16033-11-12 12:43 G	7577308.84	7577309.03	7577309.25	0.0089	0.0033
Venus	16034-06-26 01:55 G	7577534.42	7577534.58	7577534.77	0.0089	0.0054
Venus	16035-02-06 15:21 G	7577760.03	7577760.14	7577760.28	0.0089	0.0074
Mercury	16035-06-26 00:14 G	7577899.49	7577899.51	7577899.55	0.0089	0.0087
Mercury	16035-09-22 02:24 G	7577987.54	7577987.60	7577987.68	0.0089	0.0079
Mercury	16035-12-19 04:48 G	7578075.61	7578075.70	7578075.80	0.0089	0.0071
Mercury	16036-03-16 06:57 G	7578163.68	7578163.79	7578163.91	0.0089	0.0063
Mercury	16036-06-12 09:07 G	7578251.76	7578251.88	7578252.01	0.0089	0.0055
Mercury	16036-09-08 11:16 G	7578339.84	7578339.97	7578340.11	0.0089	0.0046
Mercury	16036-12-05 13:26 G	7578427.92	7578428.06	7578428.20	0.0089	0.0038



Mercury	16037-03-03 15:21 G	7578516.00	7578516.14	7578516.30	0.0089	0.0031
Mercury	16037-05-30 17:31 G	7578604.09	7578604.23	7578604.39	0.0089	0.0023
Mercury	16037-08-26 19:40 G	7578692.17	7578692.32	7578692.48	0.0089	0.0015
Mercury	16037-11-22 21:50 G	7578780.26	7578780.41	7578780.57	0.0089	0.0007
Mercury	16038-02-19 00:00 G	7578868.35	7578868.50	7578868.66	0.0089	0.0002
Mercury	16038-05-18 02:09 G	7578956.43	7578956.59	7578956.74	0.0089	0.0010
Mercury	16038-08-14 04:04 G	7579044.52	7579044.67	7579044.83	0.0089	0.0018
Mercury	16038-11-10 06:14 G	7579132.61	7579132.76	7579132.91	0.0089	0.0026
Mercury	16039-02-06 08:09 G	7579220.70	7579220.84	7579220.99	0.0089	0.0034
Mercury	16039-05-05 10:04 G	7579308.80	7579308.92	7579309.07	0.0089	0.0042
Mercury	16039-08-01 12:00 G	7579396.89	7579397.00	7579397.14	0.0089	0.0050
Mercury	16039-10-28 14:24 G	7579484.98	7579485.10	7579485.22	0.0089	0.0057
Mercury	16040-01-24 16:19 G	7579573.08	7579573.18	7579573.29	0.0089	0.0064
Mercury	16040-04-21 18:00 G	7579661.18	7579661.25	7579661.36	0.0089	0.0073
Mercury	16040-07-18 20:24 G	7579749.29	7579749.35	7579749.42	0.0089	0.0080
Mercury	16040-10-14 22:04 G	7579837.41	7579837.42	7579837.46	0.0089	0.0088
Earth	16051-05-18 19:26 G	7583705.30	7583705.31	7583705.37	0.0090	0.0089
Moon	16051-05-18 21:21 G	7583705.32	7583705.39	7583705.50	0.0090	0.0084 *
Earth	16052-05-20 08:24 G	7584072.79	7584072.85	7584072.96	0.0090	0.0085
Moon	16052-05-20 08:24 G	7584072.84	7584072.85	7584072.91	0.0090	0.0089 *
Moon	16053-05-22 21:07 G	7584440.26	7584440.38	7584440.54	0.0090	0.0076
Earth	16053-05-22 21:50 G	7584440.31	7584440.41	7584440.54	0.0090	0.0080 *
Earth	16054-05-25 10:19 G	7584807.82	7584807.93	7584808.10	0.0090	0.0076
Moon	16054-05-25 12:43 G	7584807.93	7584808.03	7584808.15	0.0090	0.0080 *
Moon	16055-05-27 20:24 G	7585175.20	7585175.35	7585175.55	0.0090	0.0067
Earth	16055-05-27 23:45 G	7585175.35	7585175.49	7585175.66	0.0090	0.0071 *
Earth	16056-05-29 12:43 G	7585542.87	7585543.03	7585543.22	0.0090	0.0066
Moon	16056-05-29 15:36 G	7585543.02	7585543.15	7585543.33	0.0090	0.0071 *
Moon	16057-05-31 22:33 G	7585910.24	7585910.44	7585910.64	0.0090	0.0056
Earth	16057-06-01 02:09 G	7585910.41	7585910.59	7585910.78	0.0090	0.0061 *

Earth	16058-06-03 15:07 G	7586277.93	7586278.13	7586278.33	0.0090	0.0056
Moon	16058-06-03 18:00 G	7586278.08	7586278.25	7586278.46	0.0090	0.0061 *
Moon	16059-06-06 00:43 G	7586645.33	7586645.53	7586645.76	0.0090	0.0047
Earth	16059-06-06 04:04 G	7586645.46	7586645.67	7586645.88	0.0090	0.0051 *
Earth	16060-06-07 16:48 G	7587012.98	7587013.20	7587013.42	0.0090	0.0046
Moon	16060-06-07 18:28 G	7587013.07	7587013.27	7587013.51	0.0090	0.0051 *
Moon	16061-06-10 04:48 G	7587380.49	7587380.70	7587380.94	0.0090	0.0037
Earth	16061-06-10 05:31 G	7587380.51	7587380.73	7587380.97	0.0090	0.0041 *
Moon	16062-06-12 17:45 G	7587748.01	7587748.24	7587748.49	0.0090	0.0040
Earth	16062-06-12 18:00 G	7587748.02	7587748.25	7587748.49	0.0090	0.0036 *
Earth	16063-06-15 06:28 G	7588115.54	7588115.77	7588116.02	0.0090	0.0031
Moon	16063-06-15 08:24 G	7588115.61	7588115.85	7588116.09	0.0090	0.0026 *
Moon	16064-06-16 16:19 G	7588482.94	7588483.18	7588483.44	0.0090	0.0030
Earth	16064-06-16 18:57 G	7588483.06	7588483.29	7588483.55	0.0090	0.0026 *
Earth	16065-06-19 07:40 G	7588850.57	7588850.82	7588851.07	0.0090	0.0020
Moon	16065-06-19 10:33 G	7588850.70	7588850.94	7588851.20	0.0090	0.0016 *
Moon	16066-06-21 16:19 G	7589217.94	7589218.18	7589218.44	0.0090	0.0019
Earth	16066-06-21 20:09 G	7589218.09	7589218.34	7589218.60	0.0090	0.0015 *
Earth	16067-06-24 08:24 G	7589585.60	7589585.85	7589586.11	0.0089	0.0009
Moon	16067-06-24 11:45 G	7589585.73	7589585.99	7589586.25	0.0089	0.0005 *
Moon	16068-06-25 18:00 G	7589953.00	7589953.25	7589953.50	0.0089	0.0008
Earth	16068-06-25 20:52 G	7589953.12	7589953.37	7589953.63	0.0089	0.0004 *
Earth	16069-06-28 09:21 G	7590320.63	7590320.89	7590321.15	0.0089	0.0002
Moon	16069-06-28 11:16 G	7590320.72	7590320.97	7590321.24	0.0089	0.0007 *
Moon	16070-06-30 20:52 G	7590688.12	7590688.37	7590688.62	0.0089	0.0003
Earth	16070-06-30 21:36 G	7590688.15	7590688.40	7590688.66	0.0089	0.0007 *
Earth	16071-07-03 09:50 G	7591055.66	7591055.91	7591056.17	0.0089	0.0012
Moon	16071-07-03 09:50 G	7591055.66	7591055.91	7591056.18	0.0089	0.0016 *
Earth	16072-07-04 22:04 G	7591423.17	7591423.42	7591423.68	0.0089	0.0018
Moon	16072-07-04 23:45 G	7591423.25	7591423.49	7591423.74	0.0089	0.0013 *

Moon	16073-07-07 07:12 G	7591790.57	7591790.80	7591791.07	0.0089	0.0028
Earth	16073-07-07 10:19 G	7591790.68	7591790.93	7591791.18	0.0089	0.0023 *
Earth	16074-07-09 21:50 G	7592158.18	7592158.41	7592158.67	0.0089	0.0029
Moon	16074-07-10 00:57 G	7592158.31	7592158.54	7592158.80	0.0089	0.0025 *
Moon	16075-07-12 06:14 G	7592525.54	7592525.76	7592526.00	0.0089	0.0038
Earth	16075-07-12 09:50 G	7592525.69	7592525.91	7592526.16	0.0089	0.0034 *
Earth	16076-07-13 21:36 G	7592893.19	7592893.40	7592893.65	0.0089	0.0039
Moon	16076-07-14 01:12 G	7592893.32	7592893.55	7592893.80	0.0089	0.0034 *
Moon	16077-07-16 06:43 G	7593260.57	7593260.78	7593261.00	0.0089	0.0047
Earth	16077-07-16 09:36 G	7593260.69	7593260.90	7593261.14	0.0089	0.0043 *
Earth	16078-07-18 21:07 G	7593628.18	7593628.38	7593628.61	0.0089	0.0049
Moon	16078-07-18 23:16 G	7593628.26	7593628.47	7593628.71	0.0089	0.0045 *
Moon	16079-07-21 08:09 G	7593995.66	7593995.84	7593996.04	0.0089	0.0057
Earth	16079-07-21 08:52 G	7593995.68	7593995.87	7593996.09	0.0089	0.0053 *
Moon	16080-07-22 21:07 G	7594363.17	7594363.38	7594363.59	0.0089	0.0055
Earth	16080-07-22 20:24 G	7594363.18	7594363.35	7594363.57	0.0089	0.0059 *
Earth	16081-07-25 08:24 G	7594730.68	7594730.85	7594731.04	0.0089	0.0063
Moon	16081-07-25 09:50 G	7594730.76	7594730.91	7594731.09	0.0089	0.0067 *
Moon	16082-07-27 17:31 G	7595098.06	7595098.23	7595098.42	0.0089	0.0064
Earth	16082-07-27 19:55 G	7595098.18	7595098.33	7595098.52	0.0089	0.0067 *
Earth	16083-07-30 07:55 G	7595465.68	7595465.83	7595465.98	0.0089	0.0072
Moon	16083-07-30 11:02 G	7595465.82	7595465.96	7595466.09	0.0089	0.0075 *
Moon	16084-07-31 15:21 G	7595833.01	7595833.14	7595833.31	0.0089	0.0073
Earth	16084-07-31 18:57 G	7595833.18	7595833.29	7595833.45	0.0089	0.0076 *
Earth	16085-08-03 06:28 G	7596200.68	7596200.77	7596200.90	0.0089	0.0080
Moon	16085-08-03 09:50 G	7596200.84	7596200.91	7596201.02	0.0089	0.0083 *
Moon	16086-08-05 14:24 G	7596568.03	7596568.10	7596568.23	0.0089	0.0082
Earth	16086-08-05 17:45 G	7596568.18	7596568.24	7596568.34	0.0089	0.0084 *
Earth	16087-08-08 05:02 G	7596935.69	7596935.71	7596935.76	0.0089	0.0088
Mars	16088-06-17 14:09 G	7597249.99	7597250.09	7597250.25	0.0089	0.0081

Mars	16090-05-13 11:45 G	7597944.68	7597944.99	7597945.31	0.0089	0.0006
Venus	16111-09-04 15:21 G	7605728.08	7605728.14	7605728.23	0.0088	0.0083
Venus	16112-04-17 04:04 G	7605953.53	7605953.67	7605953.84	0.0088	0.0063
Venus	16112-11-28 17:02 G	7606179.02	7606179.21	7606179.40	0.0088	0.0044
Venus	16113-07-12 05:45 G	7606404.54	7606404.74	7606404.96	0.0088	0.0024
Venus	16114-02-22 18:28 G	7606630.06	7606630.27	7606630.50	0.0088	0.0005
Venus	16114-10-06 06:57 G	7606855.58	7606855.79	7606856.02	0.0088	0.0016
Venus	16115-05-19 19:40 G	7607081.13	7607081.32	7607081.53	0.0088	0.0034
Venus	16115-12-31 08:38 G	7607306.68	7607306.86	7607307.03	0.0088	0.0054
Venus	16116-08-12 20:52 G	7607532.27	7607532.37	7607532.51	0.0088	0.0073
Mercury	16116-12-24 00:14 G	7607665.50	7607665.51	7607665.54	0.0088	0.0087
Mercury	16117-03-22 02:09 G	7607753.54	7607753.59	7607753.67	0.0088	0.0080
Mercury	16117-06-18 04:19 G	7607841.60	7607841.68	7607841.78	0.0088	0.0072
Mercury	16117-09-14 06:14 G	7607929.67	7607929.76	7607929.88	0.0088	0.0065
Mercury	16117-12-11 08:38 G	7608017.75	7608017.86	7608017.98	0.0088	0.0057
Mercury	16118-03-09 10:48 G	7608105.82	7608105.95	7608106.08	0.0088	0.0049
Mercury	16118-06-05 12:43 G	7608193.90	7608194.03	7608194.18	0.0088	0.0042
Mercury	16118-09-01 14:52 G	7608281.98	7608282.12	7608282.28	0.0088	0.0034
Mercury	16118-11-28 17:16 G	7608370.07	7608370.22	7608370.37	0.0088	0.0026
Mercury	16119-02-24 19:12 G	7608458.15	7608458.30	7608458.46	0.0088	0.0019
Mercury	16119-05-23 21:36 G	7608546.24	7608546.40	7608546.56	0.0088	0.0011
Mercury	16119-08-19 23:45 G	7608634.33	7608634.49	7608634.65	0.0088	0.0003
Mercury	16119-11-16 01:55 G	7608722.42	7608722.58	7608722.74	0.0088	0.0005
Mercury	16120-02-12 04:04 G	7608810.51	7608810.67	7608810.83	0.0088	0.0013
Mercury	16120-05-10 06:14 G	7608898.61	7608898.76	7608898.92	0.0088	0.0021
Mercury	16120-08-06 08:24 G	7608986.70	7608986.85	7608987.01	0.0088	0.0029
Mercury	16120-11-02 10:33 G	7609074.80	7609074.94	7609075.09	0.0088	0.0037
Mercury	16121-01-29 12:43 G	7609162.90	7609163.03	7609163.18	0.0088	0.0045
Mercury	16121-04-27 14:52 G	7609251.00	7609251.12	7609251.26	0.0088	0.0053
Mercury	16121-07-24 17:02 G	7609339.11	7609339.21	7609339.34	0.0088	0.0061

Mercury	16121-10-20 19:12 G	7609427.22	7609427.30	7609427.42	0.0088	0.0069
Mercury	16122-01-16 21:36 G	7609515.34	7609515.40	7609515.49	0.0088	0.0077
Mercury	16122-04-14 23:45 G	7609603.47	7609603.49	7609603.55	0.0088	0.0085
Saturn	16122-04-29 19:40 G	7609618.11	7609618.32	7609618.64	0.0088	0.0081
Moon	16132-11-14 17:16 G	7613470.19	7613470.22	7613470.30	0.0088	0.0086
Earth	16132-11-14 18:00 G	7613470.21	7613470.25	7613470.30	0.0088	0.0086 *
Earth	16133-11-17 03:50 G	7613837.60	7613837.66	7613837.77	0.0088	0.0083
Moon	16133-11-17 05:02 G	7613837.65	7613837.71	7613837.82	0.0088	0.0083 *
Moon	16134-11-19 12:14 G	7614204.91	7614205.01	7614205.14	0.0088	0.0079
Earth	16134-11-19 14:09 G	7614205.01	7614205.09	7614205.23	0.0088	0.0079 *
Earth	16135-11-22 00:28 G	7614572.41	7614572.52	7614572.68	0.0088	0.0075
Moon	16135-11-22 03:50 G	7614572.56	7614572.66	7614572.82	0.0088	0.0075 *
Moon	16136-11-23 07:26 G	7614939.69	7614939.81	7614939.99	0.0088	0.0071
Earth	16136-11-23 10:48 G	7614939.83	7614939.95	7614940.13	0.0088	0.0071 *
Earth	16137-11-25 21:36 G	7615307.24	7615307.40	7615307.58	0.0088	0.0066
Moon	16137-11-26 01:12 G	7615307.39	7615307.55	7615307.74	0.0088	0.0065 *
Moon	16138-11-28 05:02 G	7615674.55	7615674.71	7615674.90	0.0088	0.0062
Earth	16138-11-28 07:40 G	7615674.66	7615674.82	7615675.03	0.0088	0.0062 *
Earth	16139-11-30 18:00 G	7616042.08	7616042.25	7616042.47	0.0088	0.0058
Moon	16139-11-30 20:09 G	7616042.16	7616042.34	7616042.57	0.0088	0.0057 *
Moon	16140-12-02 03:21 G	7616409.46	7616409.64	7616409.85	0.0088	0.0054
Earth	16140-12-02 04:33 G	7616409.50	7616409.69	7616409.91	0.0088	0.0053 *
Moon	16141-12-04 14:24 G	7616776.89	7616777.10	7616777.34	0.0088	0.0048
Earth	16141-12-04 14:52 G	7616776.93	7616777.12	7616777.36	0.0088	0.0049 *
Earth	16142-12-07 01:26 G	7617144.35	7617144.56	7617144.80	0.0088	0.0044
Moon	16142-12-07 02:52 G	7617144.42	7617144.62	7617144.85	0.0088	0.0045 *
Moon	16143-12-09 09:21 G	7617511.67	7617511.89	7617512.14	0.0088	0.0038
Earth	16143-12-09 12:00 G	7617511.78	7617512.00	7617512.24	0.0088	0.0039 *
Earth	16144-12-10 22:48 G	7617879.22	7617879.45	7617879.69	0.0088	0.0034
Moon	16144-12-11 02:09 G	7617879.37	7617879.59	7617879.83	0.0088	0.0035 *

Moon	16145-12-13 05:45 G	7618246.52	7618246.74	7618247.00	0.0088	0.0029
Earth	16145-12-13 09:21 G	7618246.66	7618246.89	7618247.15	0.0088	0.0030 *
Earth	16146-12-15 20:09 G	7618614.10	7618614.34	7618614.60	0.0088	0.0025
Moon	16146-12-16 00:00 G	7618614.25	7618614.50	7618614.75	0.0088	0.0026 *
Moon	16147-12-18 04:33 G	7618981.45	7618981.69	7618981.95	0.0088	0.0019
Earth	16147-12-18 06:57 G	7618981.55	7618981.79	7618982.06	0.0088	0.0020 *
Earth	16148-12-19 18:00 G	7619349.00	7619349.25	7619349.51	0.0088	0.0015
Moon	16148-12-19 19:55 G	7619349.07	7619349.33	7619349.60	0.0088	0.0016 *
Moon	16149-12-22 04:19 G	7619716.43	7619716.68	7619716.93	0.0088	0.0008
Earth	16149-12-22 05:02 G	7619716.46	7619716.71	7619716.97	0.0088	0.0010 *
Moon	16150-12-24 14:52 G	7620083.86	7620084.12	7620084.39	0.0088	0.0006
Earth	16150-12-24 16:04 G	7620083.91	7620084.17	7620084.43	0.0088	0.0005 *
Earth	16151-12-27 02:52 G	7620451.36	7620451.62	7620451.88	0.0088	0.0001
Moon	16151-12-27 04:33 G	7620451.44	7620451.69	7620451.94	0.0088	0.0002 *
Moon	16152-12-28 11:02 G	7620818.70	7620818.96	7620819.23	0.0088	0.0004
Earth	16152-12-28 13:40 G	7620818.82	7620819.07	7620819.34	0.0088	0.0006 *
Earth	16153-12-31 00:57 G	7621186.28	7621186.54	7621186.79	0.0088	0.0010
Moon	16153-12-31 04:19 G	7621186.43	7621186.68	7621186.94	0.0088	0.0012 *
Moon	16155-01-02 08:24 G	7621553.60	7621553.85	7621554.11	0.0088	0.0014
Earth	16155-01-02 12:00 G	7621553.75	7621554.00	7621554.26	0.0088	0.0015 *
Earth	16156-01-04 23:02 G	7621921.21	7621921.46	7621921.71	0.0088	0.0020
Moon	16156-01-05 02:24 G	7621921.36	7621921.60	7621921.86	0.0088	0.0023 *
Moon	16157-01-06 07:40 G	7622288.59	7622288.82	7622289.08	0.0088	0.0024
Earth	16157-01-06 10:19 G	7622288.68	7622288.93	7622289.18	0.0088	0.0025 *
Earth	16158-01-08 21:36 G	7622656.16	7622656.40	7622656.65	0.0088	0.0030
Moon	16158-01-08 23:31 G	7622656.23	7622656.48	7622656.73	0.0088	0.0032 *
Moon	16159-01-11 08:09 G	7623023.63	7623023.84	7623024.09	0.0088	0.0033
Earth	16159-01-11 08:52 G	7623023.65	7623023.87	7623024.12	0.0088	0.0035 *
Moon	16160-01-13 18:57 G	7623391.07	7623391.29	7623391.55	0.0088	0.0042
Earth	16160-01-13 20:09 G	7623391.13	7623391.34	7623391.59	0.0088	0.0040 *

Earth	16161-01-15 07:40 G	7623758.62	7623758.82	7623759.07	0.0088	0.0045
Moon	16161-01-15 10:04 G	7623758.70	7623758.92	7623759.14	0.0088	0.0042 *
Moon	16162-01-17 16:33 G	7624126.00	7624126.19	7624126.42	0.0088	0.0052
Earth	16162-01-17 19:40 G	7624126.12	7624126.32	7624126.55	0.0088	0.0050 *
Earth	16163-01-20 06:57 G	7624493.60	7624493.79	7624494.01	0.0088	0.0054
Moon	16163-01-20 10:33 G	7624493.75	7624493.94	7624494.17	0.0088	0.0052 *
Moon	16164-01-22 15:21 G	7624860.97	7624861.14	7624861.34	0.0088	0.0062
Earth	16164-01-22 19:12 G	7624861.11	7624861.30	7624861.49	0.0088	0.0059 *
Earth	16165-01-24 06:14 G	7625228.60	7625228.76	7625228.96	0.0088	0.0064
Moon	16165-01-24 09:36 G	7625228.74	7625228.90	7625229.12	0.0088	0.0061 *
Moon	16166-01-26 15:50 G	7625596.03	7625596.16	7625596.33	0.0088	0.0070
Earth	16166-01-26 18:14 G	7625596.11	7625596.26	7625596.44	0.0088	0.0068 *
Earth	16167-01-29 05:31 G	7625963.62	7625963.73	7625963.91	0.0088	0.0073
Moon	16167-01-29 07:55 G	7625963.67	7625963.83	7625964.01	0.0088	0.0069 *
Moon	16168-01-31 17:16 G	7626331.12	7626331.22	7626331.34	0.0088	0.0080
Earth	16168-01-31 17:31 G	7626331.12	7626331.23	7626331.38	0.0088	0.0076 *
Moon	16169-02-02 04:19 G	7626698.57	7626698.68	7626698.83	0.0088	0.0078
Earth	16169-02-02 05:31 G	7626698.65	7626698.73	7626698.86	0.0088	0.0080 *
Earth	16170-02-04 17:31 G	7627066.18	7627066.23	7627066.33	0.0088	0.0084
Moon	16170-02-04 19:26 G	7627066.30	7627066.31	7627066.36	0.0088	0.0088 *
Moon	16171-02-07 02:38 G	7627433.56	7627433.61	7627433.71	0.0088	0.0085
Earth	16171-02-07 05:45 G	7627433.74	7627433.74	7627433.77	0.0088	0.0088
Mars	16172-04-15 23:16 G	7627867.26	7627867.47	7627867.75	0.0088	0.0057
Mars	16174-03-11 16:33 G	7628561.90	7628562.19	7628562.49	0.0088	0.0029
Venus	16195-01-14 02:24 G	7636175.52	7636175.60	7636175.72	0.0089	0.0079
Venus	16195-08-27 15:36 G	7636401.00	7636401.15	7636401.33	0.0089	0.0059
Venus	16196-04-09 04:48 G	7636626.52	7636626.70	7636626.92	0.0089	0.0040
Venus	16196-11-20 18:28 G	7636852.05	7636852.27	7636852.49	0.0089	0.0019
Venus	16197-07-04 07:40 G	7637077.60	7637077.82	7637078.04	0.0089	0.0002
Venus	16198-02-14 20:52 G	7637303.17	7637303.37	7637303.60	0.0089	0.0023

Jupiter	16198-04-11 21:07 G	7637359.16	7637359.38	7637359.68	0.0089	0.0078
Venus	16198-09-28 10:19 G	7637528.74	7637528.93	7637529.13	0.0089	0.0042
Venus	16199-05-11 23:31 G	7637754.33	7637754.48	7637754.65	0.0089	0.0063
Venus	16199-12-23 12:28 G	7637979.97	7637980.02	7637980.13	0.0089	0.0083
Mercury	16200-03-23 22:33 G	7638070.42	7638070.44	7638070.49	0.0089	0.0087
Mercury	16200-06-20 00:43 G	7638158.47	7638158.53	7638158.62	0.0089	0.0079
Mercury	16200-09-16 03:21 G	7638246.54	7638246.64	7638246.74	0.0089	0.0070
Mercury	16200-12-13 05:31 G	7638334.62	7638334.73	7638334.84	0.0089	0.0062
Mercury	16201-03-11 07:26 G	7638422.70	7638422.81	7638422.95	0.0089	0.0054
Mercury	16201-06-07 09:36 G	7638510.78	7638510.90	7638511.05	0.0089	0.0046
Mercury	16201-09-03 11:45 G	7638598.86	7638598.99	7638599.14	0.0089	0.0038
Mercury	16201-11-30 13:55 G	7638686.94	7638687.08	7638687.24	0.0089	0.0030
Mercury	16202-02-26 16:04 G	7638775.03	7638775.17	7638775.33	0.0089	0.0022
Mercury	16202-05-25 18:14 G	7638863.11	7638863.26	7638863.42	0.0089	0.0014
Mercury	16202-08-21 20:24 G	7638951.20	7638951.35	7638951.51	0.0089	0.0006
Mercury	16202-11-17 22:33 G	7639039.29	7639039.44	7639039.60	0.0089	0.0003
Mercury	16203-02-14 00:43 G	7639127.38	7639127.53	7639127.68	0.0089	0.0011
Mercury	16203-05-13 02:38 G	7639215.46	7639215.61	7639215.77	0.0089	0.0019
Mercury	16203-08-09 04:48 G	7639303.56	7639303.70	7639303.85	0.0089	0.0027
Mercury	16203-11-05 06:57 G	7639391.65	7639391.79	7639391.93	0.0089	0.0035
Mercury	16204-02-01 08:52 G	7639479.74	7639479.87	7639480.01	0.0089	0.0042
Mercury	16204-04-29 10:48 G	7639567.83	7639567.95	7639568.09	0.0089	0.0050
Mercury	16204-07-26 12:43 G	7639655.93	7639656.03	7639656.16	0.0089	0.0058
Mercury	16204-10-22 14:52 G	7639744.03	7639744.12	7639744.23	0.0089	0.0066
Mercury	16205-01-18 16:48 G	7639832.13	7639832.20	7639832.30	0.0089	0.0074
Mercury	16205-04-16 18:43 G	7639920.23	7639920.28	7639920.36	0.0089	0.0081
Mercury	16205-07-13 20:52 G	7640008.36	7640008.37	7640008.39	0.0089	0.0089
Moon	16215-05-19 23:31 G	7643605.42	7643605.48	7643605.57	0.0090	0.0085
Earth	16215-05-19 23:16 G	7643605.43	7643605.47	7643605.55	0.0090	0.0087 *
Moon	16216-05-21 10:48 G	7643972.88	7643972.95	7643973.04	0.0090	0.0085



Earth	16216-05-21 12:14 G	7643972.94	7643973.01	7643973.14	0.0090	0.0083 *
Earth	16217-05-24 01:12 G	7644340.45	7644340.55	7644340.70	0.0090	0.0079
Moon	16217-05-24 03:36 G	7644340.55	7644340.65	7644340.80	0.0090	0.0077 *
Moon	16218-05-26 11:02 G	7644707.84	7644707.96	7644708.12	0.0090	0.0076
Earth	16218-05-26 14:38 G	7644707.97	7644708.11	7644708.26	0.0090	0.0074 *
Earth	16219-05-29 03:07 G	7645075.49	7645075.63	7645075.81	0.0090	0.0070
Moon	16219-05-29 06:57 G	7645075.64	7645075.79	7645075.97	0.0090	0.0068 *
Moon	16220-05-30 12:57 G	7645442.89	7645443.04	7645443.23	0.0090	0.0067
Earth	16220-05-30 16:48 G	7645443.02	7645443.20	7645443.38	0.0090	0.0065 *
Earth	16221-06-02 05:16 G	7645810.55	7645810.72	7645810.93	0.0090	0.0061
Moon	16221-06-02 08:38 G	7645810.68	7645810.86	7645811.07	0.0090	0.0060 *
Moon	16222-06-04 16:04 G	7646178.00	7646178.17	7646178.39	0.0090	0.0058
Earth	16222-06-04 18:14 G	7646178.07	7646178.26	7646178.48	0.0090	0.0056 *
Earth	16223-06-07 07:26 G	7646545.61	7646545.81	7646546.03	0.0090	0.0051
Moon	16223-06-07 08:24 G	7646545.65	7646545.85	7646546.09	0.0090	0.0051 *
Earth	16224-06-08 20:38 G	7646913.14	7646913.36	7646913.58	0.0090	0.0046
Moon	16224-06-08 20:09 G	7646913.14	7646913.34	7646913.57	0.0090	0.0047 *
Moon	16225-06-11 07:40 G	7647280.59	7647280.82	7647281.07	0.0090	0.0040
Earth	16225-06-11 08:52 G	7647280.67	7647280.87	7647281.12	0.0090	0.0042 *
Earth	16226-06-13 21:50 G	7647648.19	7647648.41	7647648.66	0.0090	0.0037
Moon	16226-06-14 00:00 G	7647648.29	7647648.50	7647648.74	0.0090	0.0037 *
Moon	16227-06-16 07:40 G	7648015.58	7648015.82	7648016.07	0.0090	0.0031
Earth	16227-06-16 11:02 G	7648015.72	7648015.96	7648016.20	0.0090	0.0031 *
Earth	16228-06-17 23:31 G	7648383.24	7648383.48	7648383.73	0.0090	0.0026
Moon	16228-06-18 02:52 G	7648383.39	7648383.62	7648383.88	0.0090	0.0027 *
Moon	16229-06-20 08:24 G	7648750.62	7648750.85	7648751.11	0.0090	0.0022
Earth	16229-06-20 12:14 G	7648750.76	7648751.01	7648751.26	0.0090	0.0021 *
Earth	16230-06-23 00:28 G	7649118.27	7649118.52	7649118.77	0.0090	0.0016
Moon	16230-06-23 03:36 G	7649118.41	7649118.65	7649118.92	0.0090	0.0016 *
Moon	16231-06-25 11:02 G	7649485.71	7649485.96	7649486.21	0.0089	0.0011

Earth	16231-06-25 12:57 G	7649485.79	7649486.04	7649486.30	0.0089	0.0011	*
Earth	16232-06-27 01:26 G	7649853.31	7649853.56	7649853.82	0.0089	0.0006	
Moon	16232-06-27 03:07 G	7649853.36	7649853.63	7649853.90	0.0089	0.0004	*
Moon	16233-06-29 13:26 G	7650220.82	7650221.06	7650221.31	0.0089	0.0002	
Earth	16233-06-29 13:55 G	7650220.82	7650221.08	7650221.33	0.0089	0.0001	*
Moon	16234-07-02 00:43 G	7650588.27	7650588.53	7650588.80	0.0089	0.0005	
Earth	16234-07-02 02:09 G	7650588.34	7650588.59	7650588.85	0.0089	0.0005	*
Earth	16235-07-04 14:24 G	7650955.85	7650956.10	7650956.36	0.0089	0.0010	
Moon	16235-07-04 16:33 G	7650955.94	7650956.19	7650956.44	0.0089	0.0009	*
Moon	16236-07-05 23:45 G	7651323.24	7651323.49	7651323.76	0.0089	0.0017	
Earth	16236-07-06 02:52 G	7651323.37	7651323.62	7651323.88	0.0089	0.0015	*
Earth	16237-07-08 15:07 G	7651690.89	7651691.13	7651691.39	0.0089	0.0020	
Moon	16237-07-08 18:43 G	7651691.04	7651691.28	7651691.53	0.0089	0.0019	*
Moon	16238-07-10 23:31 G	7652058.26	7652058.48	7652058.74	0.0089	0.0028	
Earth	16238-07-11 03:07 G	7652058.40	7652058.63	7652058.89	0.0089	0.0026	*
Earth	16239-07-13 15:07 G	7652425.91	7652426.13	7652426.39	0.0089	0.0031	
Moon	16239-07-13 18:28 G	7652426.04	7652426.27	7652426.54	0.0089	0.0029	*
Moon	16240-07-15 01:12 G	7652793.33	7652793.55	7652793.79	0.0089	0.0037	
Earth	16240-07-15 03:07 G	7652793.41	7652793.63	7652793.89	0.0089	0.0036	*
Earth	16241-07-17 14:52 G	7653160.91	7653161.12	7653161.37	0.0089	0.0040	
Moon	16241-07-17 16:48 G	7653160.97	7653161.20	7653161.45	0.0089	0.0038	*
Moon	16242-07-20 02:09 G	7653528.41	7653528.59	7653528.83	0.0089	0.0048	
Earth	16242-07-20 02:52 G	7653528.41	7653528.62	7653528.85	0.0089	0.0045	*
Moon	16243-07-22 13:26 G	7653895.84	7653896.06	7653896.29	0.0089	0.0048	
Earth	16243-07-22 14:24 G	7653895.91	7653896.10	7653896.33	0.0089	0.0050	*
Earth	16244-07-24 01:55 G	7654263.40	7654263.58	7654263.81	0.0089	0.0054	
Moon	16244-07-24 04:04 G	7654263.49	7654263.67	7654263.87	0.0089	0.0056	*
Moon	16245-07-26 10:33 G	7654630.76	7654630.94	7654631.16	0.0089	0.0056	
Earth	16245-07-26 13:55 G	7654630.90	7654631.08	7654631.29	0.0089	0.0059	*
Earth	16246-07-29 00:57 G	7654998.39	7654998.54	7654998.75	0.0089	0.0064	

Moon	16246-07-29 04:33 G	7654998.54	7654998.69	7654998.89	0.0089	0.0066 *
Moon	16247-07-31 09:36 G	7655365.74	7655365.90	7655366.09	0.0089	0.0064
Earth	16247-07-31 12:57 G	7655365.89	7655366.04	7655366.23	0.0089	0.0067 *
Earth	16248-08-02 00:43 G	7655733.39	7655733.53	7655733.69	0.0089	0.0071
Moon	16248-08-02 04:04 G	7655733.54	7655733.67	7655733.82	0.0089	0.0074 *
Moon	16249-08-04 09:50 G	7656100.79	7656100.91	7656101.07	0.0089	0.0074
Earth	16249-08-04 12:14 G	7656100.89	7656101.01	7656101.15	0.0089	0.0076 *
Earth	16250-08-06 23:45 G	7656468.39	7656468.49	7656468.61	0.0089	0.0079
Moon	16250-08-07 01:26 G	7656468.47	7656468.56	7656468.67	0.0089	0.0082 *
Moon	16251-08-09 11:16 G	7656835.87	7656835.97	7656836.07	0.0089	0.0080
Earth	16251-08-09 11:02 G	7656835.89	7656835.96	7656836.06	0.0089	0.0083 *
Earth	16252-08-10 22:04 G	7657203.39	7657203.42	7657203.49	0.0089	0.0087
Moon	16253-08-13 11:02 G	7657570.95	7657570.96	7657571.03	0.0089	0.0088
Mars	16253-12-27 16:48 G	7657706.92	7657707.20	7657707.50	0.0089	0.0033
Mars	16255-11-22 14:09 G	7658401.86	7658402.09	7658402.36	0.0089	0.0054
Venus	16276-07-20 12:57 G	7665947.94	7665948.04	7665948.19	0.0088	0.0073
Venus	16277-03-03 01:55 G	7666173.42	7666173.58	7666173.77	0.0088	0.0054
Venus	16277-10-14 14:38 G	7666398.92	7666399.11	7666399.33	0.0088	0.0034
Venus	16278-05-28 03:36 G	7666624.44	7666624.65	7666624.87	0.0088	0.0014
Venus	16279-01-08 16:19 G	7666849.96	7666850.18	7666850.40	0.0088	0.0005
Venus	16279-08-22 04:48 G	7667075.51	7667075.70	7667075.93	0.0088	0.0026
Venus	16280-04-03 17:31 G	7667301.05	7667301.23	7667301.43	0.0088	0.0044
Venus	16280-11-15 06:28 G	7667526.62	7667526.77	7667526.92	0.0088	0.0063
Venus	16281-06-28 18:43 G	7667752.23	7667752.28	7667752.37	0.0088	0.0083
Mercury	16281-09-20 23:02 G	7667836.43	7667836.46	7667836.50	0.0088	0.0085
Mercury	16281-12-18 00:57 G	7667924.48	7667924.54	7667924.62	0.0088	0.0078
Mercury	16282-03-16 03:07 G	7668012.55	7668012.63	7668012.73	0.0088	0.0070
Mercury	16282-06-12 05:02 G	7668100.62	7668100.71	7668100.83	0.0088	0.0063
Mercury	16282-09-08 07:26 G	7668188.69	7668188.81	7668188.93	0.0088	0.0055
Mercury	16282-12-05 09:21 G	7668276.77	7668276.89	7668277.03	0.0088	0.0048

Mercury	16283-03-03 11:31 G	7668364.84	7668364.98	7668365.13	0.0088	0.0040
Mercury	16283-05-30 13:40 G	7668452.93	7668453.07	7668453.22	0.0088	0.0032
Mercury	16283-08-26 15:36 G	7668541.01	7668541.15	7668541.31	0.0088	0.0025
Mercury	16283-11-22 18:00 G	7668629.09	7668629.25	7668629.41	0.0088	0.0017
Mercury	16284-02-18 20:09 G	7668717.18	7668717.34	7668717.50	0.0088	0.0009
Mercury	16284-05-16 22:19 G	7668805.27	7668805.43	7668805.59	0.0088	0.0001
Mercury	16284-08-13 00:28 G	7668893.36	7668893.52	7668893.68	0.0088	0.0007
Mercury	16284-11-09 02:38 G	7668981.45	7668981.61	7668981.77	0.0088	0.0014
Mercury	16285-02-05 04:48 G	7669069.55	7669069.70	7669069.86	0.0088	0.0022
Mercury	16285-05-04 06:57 G	7669157.64	7669157.79	7669157.94	0.0088	0.0030
Mercury	16285-07-31 09:07 G	7669245.74	7669245.88	7669246.03	0.0088	0.0038
Mercury	16285-10-27 11:16 G	7669333.84	7669333.97	7669334.11	0.0088	0.0046
Mercury	16286-01-23 13:26 G	7669421.94	7669422.06	7669422.20	0.0088	0.0054
Mercury	16286-04-21 15:50 G	7669510.05	7669510.16	7669510.28	0.0088	0.0062
Mercury	16286-07-18 18:00 G	7669598.16	7669598.25	7669598.35	0.0088	0.0070
Mercury	16286-10-14 20:24 G	7669686.28	7669686.35	7669686.42	0.0088	0.0078
Mercury	16287-01-10 22:33 G	7669774.42	7669774.44	7669774.47	0.0088	0.0086
Moon	16295-11-13 15:21 G	7673003.07	7673003.14	7673003.24	0.0088	0.0083
Earth	16295-11-13 15:36 G	7673003.15	7673003.15	7673003.18	0.0088	0.0088 *
Earth	16296-11-15 01:40 G	7673370.52	7673370.57	7673370.66	0.0088	0.0084
Moon	16297-11-17 09:21 G	7673737.77	7673737.89	7673738.03	0.0088	0.0076
Earth	16297-11-17 11:45 G	7673737.92	7673737.99	7673738.12	0.0088	0.0081 *
Earth	16298-11-19 22:04 G	7674105.32	7674105.42	7674105.57	0.0088	0.0077
Moon	16298-11-20 01:40 G	7674105.49	7674105.57	7674105.67	0.0088	0.0081 *
Moon	16299-11-22 05:02 G	7674472.57	7674472.71	7674472.89	0.0088	0.0068
Earth	16299-11-22 08:38 G	7674472.74	7674472.86	7674473.02	0.0088	0.0073 *
Earth	16300-11-24 18:57 G	7674840.15	7674840.29	7674840.47	0.0088	0.0069
Moon	16300-11-24 22:19 G	7674840.30	7674840.43	7674840.59	0.0088	0.0073 *
Moon	16301-11-27 02:38 G	7675207.45	7675207.61	7675207.82	0.0088	0.0061
Earth	16301-11-27 05:31 G	7675207.58	7675207.73	7675207.92	0.0088	0.0065 *

Earth	16302-11-29 15:50 G	7675575.00	7675575.16	7675575.37	0.0088	0.0061
Moon	16302-11-29 17:31 G	7675575.07	7675575.23	7675575.42	0.0088	0.0065 *
Moon	16303-12-02 02:09 G	7675942.41	7675942.59	7675942.81	0.0088	0.0053
Earth	16303-12-02 02:09 G	7675942.42	7675942.59	7675942.81	0.0088	0.0057 *
Moon	16304-12-03 12:28 G	7676309.82	7676310.02	7676310.23	0.0088	0.0056
Earth	16304-12-03 12:57 G	7676309.85	7676310.04	7676310.26	0.0088	0.0052 *
Earth	16305-12-05 23:16 G	7676677.27	7676677.47	7676677.70	0.0088	0.0048
Moon	16305-12-06 01:55 G	7676677.36	7676677.58	7676677.80	0.0088	0.0043 *
Moon	16306-12-08 06:28 G	7677044.57	7677044.77	7677045.01	0.0088	0.0048
Earth	16306-12-08 10:04 G	7677044.70	7677044.92	7677045.15	0.0088	0.0043 *
Earth	16307-12-10 20:09 G	7677412.13	7677412.34	7677412.59	0.0088	0.0039
Moon	16307-12-11 00:00 G	7677412.27	7677412.50	7677412.73	0.0088	0.0034 *
Moon	16308-12-12 03:21 G	7677779.42	7677779.64	7677779.88	0.0088	0.0039
Earth	16308-12-12 06:57 G	7677779.56	7677779.79	7677780.04	0.0088	0.0034 *
Earth	16309-12-14 17:31 G	7678147.00	7678147.23	7678147.48	0.0088	0.0030
Moon	16309-12-14 20:38 G	7678147.12	7678147.36	7678147.62	0.0088	0.0025 *
Moon	16310-12-17 01:55 G	7678514.35	7678514.58	7678514.82	0.0088	0.0029
Earth	16310-12-17 04:19 G	7678514.44	7678514.68	7678514.94	0.0088	0.0025 *
Earth	16311-12-19 15:07 G	7678881.88	7678882.13	7678882.38	0.0088	0.0020
Moon	16311-12-19 16:04 G	7678881.92	7678882.17	7678882.44	0.0088	0.0016 *
Earth	16312-12-21 01:55 G	7679249.33	7679249.58	7679249.84	0.0088	0.0016
Moon	16312-12-21 01:55 G	7679249.35	7679249.58	7679249.84	0.0088	0.0020 *
Moon	16313-12-23 12:00 G	7679616.73	7679617.00	7679617.27	0.0088	0.0006
Earth	16313-12-23 12:57 G	7679616.79	7679617.04	7679617.30	0.0088	0.0011 *
Earth	16314-12-25 23:45 G	7679984.23	7679984.49	7679984.75	0.0088	0.0006
Moon	16314-12-26 02:09 G	7679984.35	7679984.59	7679984.85	0.0088	0.0011 *
Moon	16315-12-28 07:40 G	7680351.56	7680351.82	7680352.08	0.0088	0.0003
Earth	16315-12-28 10:48 G	7680351.69	7680351.95	7680352.21	0.0088	0.0001 *
Earth	16316-12-29 21:36 G	7680719.15	7680719.40	7680719.66	0.0088	0.0004
Moon	16316-12-30 01:12 G	7680719.29	7680719.55	7680719.81	0.0088	0.0001 *

Moon	16318-01-01 05:02 G	7681086.46	7681086.71	7681086.97	0.0088	0.0013
Earth	16318-01-01 08:38 G	7681086.61	7681086.86	7681087.12	0.0088	0.0009 *
Earth	16319-01-03 19:40 G	7681454.06	7681454.32	7681454.58	0.0088	0.0013
Moon	16319-01-03 22:33 G	7681454.18	7681454.44	7681454.70	0.0088	0.0009 *
Moon	16320-01-06 04:04 G	7681821.44	7681821.67	7681821.93	0.0088	0.0022
Earth	16320-01-06 06:28 G	7681821.53	7681821.77	7681822.03	0.0088	0.0018 *
Earth	16321-01-07 17:31 G	7682188.99	7682189.23	7682189.49	0.0088	0.0023
Moon	16321-01-07 18:28 G	7682189.02	7682189.27	7682189.54	0.0088	0.0018 *
Earth	16322-01-10 05:02 G	7682556.46	7682556.71	7682556.96	0.0088	0.0027
Moon	16322-01-10 05:16 G	7682556.49	7682556.72	7682556.96	0.0088	0.0031 *
Moon	16323-01-12 14:38 G	7682923.87	7682924.11	7682924.38	0.0088	0.0028
Earth	16323-01-12 15:50 G	7682923.93	7682924.16	7682924.42	0.0088	0.0032 *
Earth	16324-01-15 03:07 G	7683291.41	7683291.63	7683291.88	0.0088	0.0037
Moon	16324-01-15 06:00 G	7683291.54	7683291.75	7683291.98	0.0088	0.0041 *
Moon	16325-01-16 11:31 G	7683658.76	7683658.98	7683659.23	0.0088	0.0037
Earth	16325-01-16 15:07 G	7683658.90	7683659.13	7683659.36	0.0088	0.0041 *
Earth	16326-01-19 02:09 G	7684026.39	7684026.59	7684026.83	0.0088	0.0046
Moon	16326-01-19 05:45 G	7684026.55	7684026.74	7684026.97	0.0088	0.0050 *
Moon	16327-01-21 10:19 G	7684393.73	7684393.93	7684394.17	0.0088	0.0046
Earth	16327-01-21 14:09 G	7684393.88	7684394.09	7684394.31	0.0088	0.0050 *
Earth	16328-01-24 01:12 G	7684761.37	7684761.55	7684761.78	0.0088	0.0055
Moon	16328-01-24 04:33 G	7684761.50	7684761.69	7684761.89	0.0088	0.0058 *
Moon	16329-01-25 11:16 G	7685128.78	7685128.97	7685129.17	0.0088	0.0056
Earth	16329-01-25 13:12 G	7685128.88	7685129.05	7685129.26	0.0088	0.0059 *
Earth	16330-01-28 00:57 G	7685496.37	7685496.54	7685496.73	0.0088	0.0063
Moon	16330-01-28 01:40 G	7685496.41	7685496.57	7685496.76	0.0088	0.0067 *
Earth	16331-01-30 12:43 G	7685863.87	7685864.03	7685864.20	0.0088	0.0068
Moon	16331-01-30 12:43 G	7685863.88	7685864.03	7685864.22	0.0088	0.0065 *
Moon	16332-02-01 22:48 G	7686231.34	7686231.45	7686231.61	0.0088	0.0076
Earth	16332-02-02 00:28 G	7686231.38	7686231.52	7686231.68	0.0088	0.0072 *

Earth	16333-02-03 12:28 G	7686598.89	7686599.02	7686599.15	0.0088	0.0076
Moon	16333-02-03 14:38 G	7686598.99	7686599.11	7686599.28	0.0088	0.0072 *
Moon	16334-02-05 20:38 G	7686966.30	7686966.36	7686966.47	0.0088	0.0084
Earth	16334-02-06 00:00 G	7686966.41	7686966.50	7686966.63	0.0088	0.0080 *
Earth	16335-02-08 11:45 G	7687333.93	7687333.99	7687334.10	0.0088	0.0084
Moon	16335-02-08 15:21 G	7687334.06	7687334.14	7687334.27	0.0088	0.0081 *
Earth	16336-02-10 23:45 G	7687701.48	7687701.49	7687701.56	0.0088	0.0087
Moon	16337-02-12 15:07 G	7688069.12	7688069.13	7688069.18	0.0088	0.0088
Mars	16337-10-26 05:31 G	7688324.42	7688324.73	7688325.04	0.0088	0.0007
Mars	16339-09-20 20:52 G	7689019.24	7689019.37	7689019.54	0.0088	0.0077
Venus	16359-12-01 00:14 G	7696395.39	7696395.51	7696395.66	0.0089	0.0069
Venus	16360-07-13 13:26 G	7696620.89	7696621.06	7696621.26	0.0089	0.0049
Venus	16361-02-24 02:52 G	7696846.42	7696846.62	7696846.84	0.0089	0.0029
Venus	16361-10-07 16:19 G	7697071.96	7697072.18	7697072.40	0.0089	0.0009
Venus	16362-05-21 05:31 G	7697297.51	7697297.73	7697297.95	0.0089	0.0012
Venus	16363-01-01 18:43 G	7697523.08	7697523.28	7697523.49	0.0089	0.0032
Venus	16363-08-15 07:55 G	7697748.66	7697748.83	7697749.02	0.0089	0.0052
Venus	16364-03-27 21:07 G	7697974.27	7697974.38	7697974.52	0.0089	0.0073
Jupiter	16364-06-11 17:16 G	7698049.82	7698050.22	7698050.71	0.0089	0.0048
Mercury	16364-12-19 21:07 G	7698241.35	7698241.38	7698241.44	0.0089	0.0085
Mercury	16365-03-17 23:31 G	7698329.41	7698329.48	7698329.57	0.0089	0.0077
Mercury	16365-06-14 01:40 G	7698417.48	7698417.57	7698417.68	0.0089	0.0068
Mercury	16365-09-10 03:50 G	7698505.55	7698505.66	7698505.79	0.0089	0.0060
Mercury	16365-12-07 06:00 G	7698593.63	7698593.75	7698593.89	0.0089	0.0052
Mercury	16366-03-05 08:24 G	7698681.72	7698681.85	7698681.99	0.0089	0.0044
Mercury	16366-06-01 10:33 G	7698769.80	7698769.94	7698770.09	0.0089	0.0036
Mercury	16366-08-28 12:43 G	7698857.88	7698858.03	7698858.18	0.0089	0.0028
Mercury	16366-11-24 14:52 G	7698945.97	7698946.12	7698946.27	0.0089	0.0019
Mercury	16367-02-20 17:02 G	7699034.06	7699034.21	7699034.37	0.0089	0.0011
Mercury	16367-05-19 19:12 G	7699122.14	7699122.30	7699122.46	0.0089	0.0003

Mercury	16367-08-15 21:21 G	7699210.23	7699210.39	7699210.54	0.0089	0.0005
Mercury	16367-11-11 23:16 G	7699298.32	7699298.47	7699298.63	0.0089	0.0013
Mercury	16368-02-08 01:26 G	7699386.41	7699386.56	7699386.71	0.0089	0.0021
Mercury	16368-05-06 03:21 G	7699474.50	7699474.64	7699474.80	0.0089	0.0029
Mercury	16368-08-02 05:31 G	7699562.59	7699562.73	7699562.88	0.0089	0.0036
Mercury	16368-10-29 07:26 G	7699650.69	7699650.81	7699650.95	0.0089	0.0045
Mercury	16369-01-25 09:21 G	7699738.78	7699738.89	7699739.03	0.0089	0.0053
Mercury	16369-04-23 11:45 G	7699826.88	7699826.99	7699827.10	0.0089	0.0060
Mercury	16369-07-20 13:40 G	7699914.98	7699915.07	7699915.17	0.0089	0.0067
Mercury	16369-10-16 15:21 G	7700003.08	7700003.14	7700003.24	0.0089	0.0076
Mercury	16370-01-12 17:45 G	7700091.19	7700091.24	7700091.30	0.0089	0.0083
Earth	16378-05-17 15:21 G	7703138.10	7703138.14	7703138.19	0.0090	0.0088
Moon	16378-05-17 16:04 G	7703138.13	7703138.17	7703138.27	0.0090	0.0086 *
Moon	16379-05-20 02:09 G	7703505.56	7703505.59	7703505.67	0.0090	0.0088
Earth	16379-05-20 04:04 G	7703505.61	7703505.67	7703505.78	0.0090	0.0085 *
Earth	16380-05-21 17:16 G	7703873.13	7703873.22	7703873.36	0.0090	0.0081
Moon	16380-05-21 20:38 G	7703873.25	7703873.36	7703873.51	0.0090	0.0077 *
Moon	16381-05-24 03:07 G	7704240.53	7704240.63	7704240.76	0.0090	0.0080
Earth	16381-05-24 06:28 G	7704240.66	7704240.77	7704240.93	0.0090	0.0077 *
Earth	16382-05-26 19:12 G	7704608.18	7704608.30	7704608.48	0.0090	0.0073
Moon	16382-05-26 23:16 G	7704608.31	7704608.47	7704608.65	0.0090	0.0068 *
Moon	16383-05-29 05:02 G	7704975.59	7704975.71	7704975.89	0.0090	0.0073
Earth	16383-05-29 08:52 G	7704975.71	7704975.87	7704976.04	0.0090	0.0068 *
Earth	16384-05-30 21:36 G	7705343.23	7705343.40	7705343.59	0.0090	0.0064
Moon	16384-05-31 00:00 G	7705343.32	7705343.50	7705343.71	0.0090	0.0060 *
Moon	16385-06-02 08:38 G	7705710.70	7705710.86	7705711.05	0.0090	0.0064
Earth	16385-06-02 10:04 G	7705710.75	7705710.92	7705711.14	0.0090	0.0060 *
Moon	16386-06-04 23:31 G	7706078.27	7706078.48	7706078.71	0.0090	0.0051
Earth	16386-06-04 23:31 G	7706078.28	7706078.48	7706078.68	0.0090	0.0055 *
Earth	16387-06-07 12:00 G	7706445.81	7706446.00	7706446.23	0.0090	0.0051



Moon	16387-06-07 12:57 G	7706445.86	7706446.04	7706446.26	0.0090	0.0055 *
Moon	16388-06-08 23:16 G	7706813.25	7706813.47	7706813.72	0.0090	0.0042
Earth	16388-06-09 01:12 G	7706813.34	7706813.55	7706813.78	0.0090	0.0046 *
Earth	16389-06-11 14:09 G	7707180.87	7707181.09	7707181.33	0.0090	0.0041
Moon	16389-06-11 17:02 G	7707181.01	7707181.21	7707181.44	0.0090	0.0046 *
Moon	16390-06-13 23:31 G	7707548.25	7707548.48	7707548.74	0.0090	0.0032
Earth	16390-06-14 02:52 G	7707548.40	7707548.62	7707548.87	0.0090	0.0037 *
Earth	16391-06-16 15:50 G	7707915.93	7707916.16	7707916.41	0.0090	0.0032
Moon	16391-06-16 19:12 G	7707916.09	7707916.30	7707916.56	0.0090	0.0037 *
Moon	16392-06-18 01:12 G	7708283.32	7708283.55	7708283.81	0.0090	0.0023
Earth	16392-06-18 04:48 G	7708283.46	7708283.70	7708283.95	0.0090	0.0027 *
Earth	16393-06-20 17:16 G	7708650.97	7708651.22	7708651.47	0.0090	0.0022
Moon	16393-06-20 19:40 G	7708651.08	7708651.32	7708651.58	0.0090	0.0026 *
Moon	16394-06-23 03:50 G	7709018.42	7709018.66	7709018.91	0.0090	0.0013
Earth	16394-06-23 06:00 G	7709018.49	7709018.75	7709019.00	0.0090	0.0017 *
Earth	16395-06-25 18:28 G	7709386.01	7709386.27	7709386.52	0.0090	0.0012
Moon	16395-06-25 18:43 G	7709386.02	7709386.28	7709386.55	0.0090	0.0017 *
Earth	16396-06-27 06:43 G	7709753.53	7709753.78	7709754.04	0.0090	0.0007
Moon	16396-06-27 07:26 G	7709753.56	7709753.81	7709754.06	0.0090	0.0003 *
Moon	16397-06-29 17:31 G	7710120.97	7710121.23	7710121.50	0.0089	0.0007
Earth	16397-06-29 19:12 G	7710121.04	7710121.30	7710121.56	0.0089	0.0002 *
Earth	16398-07-02 07:26 G	7710488.55	7710488.81	7710489.07	0.0089	0.0003
Moon	16398-07-02 10:19 G	7710488.68	7710488.93	7710489.18	0.0089	0.0008 *
Moon	16399-07-04 16:33 G	7710855.93	7710856.19	7710856.45	0.0089	0.0003
Earth	16399-07-04 19:55 G	7710856.07	7710856.33	7710856.58	0.0089	0.0008 *
Earth	16400-07-06 07:55 G	7711223.58	7711223.83	7711224.09	0.0089	0.0013
Moon	16400-07-06 11:31 G	7711223.74	7711223.98	7711224.24	0.0089	0.0018 *
Moon	16401-07-08 17:02 G	7711590.96	7711591.21	7711591.46	0.0089	0.0013
Earth	16401-07-08 20:09 G	7711591.10	7711591.34	7711591.60	0.0089	0.0018 *
Earth	16402-07-11 08:24 G	7711958.61	7711958.85	7711959.11	0.0089	0.0023

Moon	16402-07-11 11:16 G	7711958.73	7711958.97	7711959.23	0.0089	0.0027 *
Moon	16403-07-13 18:57 G	7712326.05	7712326.29	7712326.53	0.0089	0.0023
Earth	16403-07-13 20:38 G	7712326.13	7712326.36	7712326.62	0.0089	0.0028 *
Earth	16404-07-15 08:38 G	7712693.64	7712693.86	7712694.12	0.0089	0.0032
Moon	16404-07-15 09:07 G	7712693.66	7712693.88	7712694.14	0.0089	0.0037 *
Earth	16405-07-17 21:07 G	7713061.15	7713061.38	7713061.61	0.0089	0.0037
Moon	16405-07-17 21:36 G	7713061.17	7713061.40	7713061.63	0.0089	0.0033 *
Moon	16406-07-20 07:26 G	7713428.59	7713428.81	7713429.04	0.0089	0.0046
Earth	16406-07-20 08:38 G	7713428.65	7713428.86	7713429.11	0.0089	0.0042 *
Earth	16407-07-22 20:24 G	7713796.15	7713796.35	7713796.59	0.0089	0.0046
Moon	16407-07-22 23:31 G	7713796.27	7713796.48	7713796.71	0.0089	0.0041 *
Moon	16408-07-24 05:16 G	7714163.53	7714163.72	7714163.94	0.0089	0.0055
Earth	16408-07-24 08:24 G	7714163.65	7714163.85	7714164.08	0.0089	0.0050 *
Earth	16409-07-26 20:09 G	7714531.14	7714531.34	7714531.55	0.0089	0.0055
Moon	16409-07-26 23:45 G	7714531.29	7714531.49	7714531.71	0.0089	0.0050 *
Moon	16410-07-29 04:33 G	7714898.53	7714898.69	7714898.88	0.0089	0.0064
Earth	16410-07-29 07:26 G	7714898.65	7714898.81	7714899.03	0.0089	0.0060 *
Earth	16411-07-31 19:12 G	7715266.14	7715266.30	7715266.50	0.0089	0.0064
Moon	16411-07-31 22:19 G	7715266.25	7715266.43	7715266.64	0.0089	0.0059 *
Moon	16412-08-02 04:48 G	7715633.57	7715633.70	7715633.87	0.0089	0.0072
Earth	16412-08-02 06:43 G	7715633.64	7715633.78	7715633.97	0.0089	0.0068 *
Earth	16413-08-04 18:28 G	7716001.13	7716001.27	7716001.44	0.0089	0.0071
Moon	16413-08-04 18:43 G	7716001.13	7716001.28	7716001.48	0.0089	0.0067 *
Earth	16414-08-07 06:00 G	7716368.63	7716368.75	7716368.91	0.0089	0.0075
Moon	16414-08-07 06:14 G	7716368.67	7716368.76	7716368.90	0.0089	0.0079 *
Moon	16415-08-09 15:36 G	7716736.04	7716736.15	7716736.33	0.0089	0.0075
Earth	16415-08-09 17:16 G	7716736.13	7716736.22	7716736.37	0.0089	0.0079 *
Earth	16416-08-11 05:02 G	7717103.63	7717103.71	7717103.82	0.0089	0.0082
Moon	16416-08-11 08:24 G	7717103.79	7717103.85	7717103.90	0.0089	0.0086 *
Mars	16417-08-12 02:24 G	7717469.43	7717469.60	7717469.81	0.0089	0.0070

Moon	16417-08-13 12:57 G	7717470.97	7717471.04	7717471.16	0.0089	0.0082
Earth	16417-08-13 16:04 G	7717471.14	7717471.17	7717471.27	0.0089	0.0086 *
Earth	16418-08-16 04:04 G	7717838.67	7717838.67	7717838.67	0.0089	0.0089
Mars	16419-07-07 21:50 G	7718164.11	7718164.41	7718164.73	0.0089	0.0016
Moon	16419-08-18 11:45 G	7718205.98	7718205.99	7718206.03	0.0089	0.0088
Venus	16440-10-22 22:04 G	7725942.36	7725942.42	7725942.51	0.0088	0.0083
Venus	16441-06-05 10:48 G	7726167.82	7726167.95	7726168.13	0.0088	0.0063
Venus	16442-01-17 00:00 G	7726393.31	7726393.50	7726393.70	0.0088	0.0043
Venus	16442-08-30 12:43 G	7726618.83	7726619.03	7726619.25	0.0088	0.0024
Venus	16443-04-13 01:40 G	7726844.35	7726844.57	7726844.79	0.0088	0.0004
Venus	16443-11-24 14:24 G	7727069.89	7727070.10	7727070.32	0.0088	0.0015
Venus	16444-07-07 02:52 G	7727295.43	7727295.62	7727295.84	0.0088	0.0035
Venus	16445-02-17 15:50 G	7727521.00	7727521.16	7727521.34	0.0088	0.0054
Venus	16445-10-01 04:04 G	7727746.58	7727746.67	7727746.81	0.0088	0.0074
Mercury	16446-06-18 21:50 G	7728007.37	7728007.41	7728007.47	0.0088	0.0083
Mercury	16446-09-14 23:45 G	7728095.43	7728095.49	7728095.58	0.0088	0.0076
Mercury	16446-12-12 01:55 G	7728183.49	7728183.58	7728183.69	0.0088	0.0068
Mercury	16447-03-10 03:50 G	7728271.56	7728271.66	7728271.79	0.0088	0.0061
Mercury	16447-06-06 06:00 G	7728359.64	7728359.75	7728359.89	0.0088	0.0053
Mercury	16447-09-02 08:24 G	7728447.72	7728447.85	7728447.98	0.0088	0.0045
Mercury	16447-11-29 10:19 G	7728535.79	7728535.93	7728536.08	0.0088	0.0038
Mercury	16448-02-25 12:28 G	7728623.88	7728624.02	7728624.17	0.0088	0.0030
Mercury	16448-05-23 14:38 G	7728711.96	7728712.11	7728712.27	0.0088	0.0022
Mercury	16448-08-19 16:48 G	7728800.04	7728800.20	7728800.36	0.0088	0.0015
Mercury	16448-11-15 18:57 G	7728888.13	7728888.29	7728888.45	0.0088	0.0007
Mercury	16449-02-11 21:07 G	7728976.22	7728976.38	7728976.54	0.0088	0.0001
Mercury	16449-05-10 23:16 G	7729064.31	7729064.47	7729064.63	0.0088	0.0009
Mercury	16449-08-07 01:12 G	7729152.40	7729152.55	7729152.72	0.0088	0.0017
Mercury	16449-11-03 03:36 G	7729240.50	7729240.65	7729240.80	0.0088	0.0024
Mercury	16450-01-30 05:45 G	7729328.59	7729328.74	7729328.89	0.0088	0.0032

Mercury	16450-04-28 07:55 G	7729416.69	7729416.83	7729416.98	0.0088	0.0040
Mercury	16450-07-25 10:04 G	7729504.79	7729504.92	7729505.06	0.0088	0.0048
Mercury	16450-10-21 12:14 G	7729592.89	7729593.01	7729593.14	0.0088	0.0056
Mercury	16451-01-17 14:24 G	7729681.00	7729681.10	7729681.22	0.0088	0.0064
Mercury	16451-04-15 16:48 G	7729769.11	7729769.20	7729769.29	0.0088	0.0072
Mercury	16451-07-12 18:57 G	7729857.23	7729857.29	7729857.36	0.0088	0.0080
Earth	16459-11-14 00:28 G	7732903.48	7732903.52	7732903.60	0.0088	0.0085
Moon	16459-11-14 02:38 G	7732903.55	7732903.61	7732903.69	0.0088	0.0084 *
Moon	16460-11-15 07:26 G	7733270.75	7733270.81	7733270.92	0.0088	0.0083
Earth	16460-11-15 10:33 G	7733270.88	7733270.94	7733271.06	0.0088	0.0082 *
Earth	16461-11-17 20:52 G	7733638.27	7733638.37	7733638.50	0.0088	0.0078
Moon	16461-11-18 00:00 G	7733638.41	7733638.50	7733638.66	0.0088	0.0077 *
Moon	16462-11-20 04:04 G	7734005.54	7734005.67	7734005.80	0.0088	0.0075
Earth	16462-11-20 06:57 G	7734005.68	7734005.79	7734005.95	0.0088	0.0075 *
Earth	16463-11-22 17:16 G	7734373.09	7734373.22	7734373.39	0.0088	0.0071
Moon	16463-11-22 20:38 G	7734373.22	7734373.36	7734373.53	0.0088	0.0070 *
Moon	16464-11-24 01:40 G	7734740.44	7734740.57	7734740.75	0.0088	0.0069
Earth	16464-11-24 03:50 G	7734740.51	7734740.66	7734740.84	0.0088	0.0067 *
Earth	16465-11-26 14:38 G	7735107.93	7735108.11	7735108.28	0.0088	0.0063
Moon	16465-11-26 15:21 G	7735107.97	7735108.14	7735108.34	0.0088	0.0063 *
Earth	16466-11-29 00:14 G	7735475.35	7735475.51	7735475.73	0.0088	0.0060
Moon	16466-11-29 00:28 G	7735475.37	7735475.52	7735475.73	0.0088	0.0061 *
Moon	16467-12-01 09:07 G	7735842.69	7735842.88	7735843.11	0.0088	0.0054
Earth	16467-12-01 10:48 G	7735842.78	7735842.95	7735843.18	0.0088	0.0056 *
Earth	16468-12-02 21:36 G	7736210.20	7736210.40	7736210.62	0.0088	0.0051
Moon	16468-12-02 23:45 G	7736210.31	7736210.49	7736210.71	0.0088	0.0052 *
Moon	16469-12-05 04:33 G	7736577.48	7736577.69	7736577.92	0.0088	0.0046
Earth	16469-12-05 08:09 G	7736577.63	7736577.84	7736578.07	0.0088	0.0047 *
Earth	16470-12-07 18:14 G	7736945.06	7736945.26	7736945.51	0.0088	0.0043
Moon	16470-12-07 21:50 G	7736945.21	7736945.41	7736945.65	0.0088	0.0044 *

Moon	16471-12-10 01:26 G	7737312.35	7737312.56	7737312.81	0.0088	0.0039
Earth	16471-12-10 04:48 G	7737312.49	7737312.70	7737312.95	0.0088	0.0039 *
Earth	16472-12-11 15:36 G	7737679.92	7737680.15	7737680.39	0.0088	0.0034
Moon	16472-12-11 18:43 G	7737680.04	7737680.28	7737680.52	0.0088	0.0034 *
Moon	16473-12-14 00:43 G	7738047.30	7738047.53	7738047.77	0.0088	0.0029
Earth	16473-12-14 02:09 G	7738047.36	7738047.59	7738047.84	0.0088	0.0030 *
Earth	16474-12-16 12:57 G	7738414.79	7738415.04	7738415.28	0.0088	0.0025
Moon	16474-12-16 13:40 G	7738414.82	7738415.07	7738415.33	0.0088	0.0025 *
Earth	16475-12-18 23:16 G	7738782.23	7738782.47	7738782.73	0.0088	0.0021
Moon	16475-12-19 00:00 G	7738782.26	7738782.50	7738782.75	0.0088	0.0021 *
Moon	16476-12-20 07:55 G	7739149.58	7739149.83	7739150.10	0.0088	0.0017
Earth	16476-12-20 10:19 G	7739149.68	7739149.93	7739150.19	0.0088	0.0016 *
Earth	16477-12-22 20:52 G	7739517.12	7739517.37	7739517.64	0.0088	0.0012
Moon	16477-12-22 23:31 G	7739517.23	7739517.48	7739517.74	0.0088	0.0012 *
Moon	16478-12-25 04:33 G	7739884.43	7739884.69	7739884.95	0.0088	0.0007
Earth	16478-12-25 08:09 G	7739884.58	7739884.84	7739885.10	0.0088	0.0007 *
Earth	16479-12-27 18:57 G	7740252.03	7740252.29	7740252.55	0.0088	0.0002
Moon	16479-12-27 22:33 G	7740252.18	7740252.44	7740252.70	0.0088	0.0002 *
Moon	16480-12-29 02:52 G	7740619.36	7740619.62	7740619.87	0.0088	0.0003
Earth	16480-12-29 06:00 G	7740619.50	7740619.75	7740620.02	0.0088	0.0003 *
Earth	16481-12-31 17:02 G	7740986.96	7740987.21	7740987.47	0.0088	0.0007
Moon	16481-12-31 19:55 G	7740987.07	7740987.33	7740987.60	0.0088	0.0006 *
Moon	16483-01-03 02:38 G	7741354.37	7741354.61	7741354.87	0.0088	0.0012
Earth	16483-01-03 03:50 G	7741354.42	7741354.66	7741354.93	0.0088	0.0012 *
Earth	16484-01-05 15:07 G	7741721.88	7741722.13	7741722.39	0.0088	0.0016
Moon	16484-01-05 15:50 G	7741721.90	7741722.16	7741722.43	0.0088	0.0015 *
Earth	16485-01-07 02:09 G	7742089.35	7742089.59	7742089.85	0.0088	0.0021
Moon	16485-01-07 03:07 G	7742089.39	7742089.63	7742089.88	0.0088	0.0021 *
Moon	16486-01-09 10:48 G	7742456.71	7742456.95	7742457.22	0.0088	0.0025
Earth	16486-01-09 13:12 G	7742456.81	7742457.05	7742457.31	0.0088	0.0025 *

Earth	16487-01-12 00:14 G	7742824.28	7742824.51	7742824.77	0.0088	0.0030
Moon	16487-01-12 02:52 G	7742824.40	7742824.62	7742824.87	0.0088	0.0031 *
Moon	16488-01-14 07:55 G	7743191.60	7743191.83	7743192.08	0.0088	0.0033
Earth	16488-01-14 11:31 G	7743191.76	7743191.98	7743192.24	0.0088	0.0034 *
Earth	16489-01-15 23:02 G	7743559.23	7743559.46	7743559.70	0.0088	0.0038
Moon	16489-01-16 02:24 G	7743559.38	7743559.60	7743559.85	0.0088	0.0039 *
Moon	16490-01-18 07:12 G	7743926.58	7743926.80	7743927.03	0.0088	0.0041
Earth	16490-01-18 10:19 G	7743926.72	7743926.93	7743927.17	0.0088	0.0043 *
Earth	16491-01-20 21:36 G	7744294.20	7744294.40	7744294.64	0.0088	0.0047
Moon	16491-01-21 00:28 G	7744294.31	7744294.52	7744294.75	0.0088	0.0048 *
Moon	16492-01-23 08:24 G	7744661.65	7744661.85	7744662.06	0.0088	0.0050
Earth	16492-01-23 09:36 G	7744661.70	7744661.90	7744662.12	0.0088	0.0051 *
Earth	16493-01-24 21:21 G	7745029.19	7745029.39	7745029.60	0.0088	0.0055
Moon	16493-01-24 21:36 G	7745029.21	7745029.40	7745029.62	0.0088	0.0057 *
Earth	16494-01-27 08:52 G	7745396.69	7745396.87	7745397.07	0.0088	0.0060
Moon	16494-01-27 09:36 G	7745396.73	7745396.90	7745397.11	0.0088	0.0059 *
Moon	16495-01-29 18:14 G	7745764.09	7745764.26	7745764.45	0.0088	0.0064
Earth	16495-01-29 20:38 G	7745764.19	7745764.36	7745764.55	0.0088	0.0064 *
Earth	16496-02-01 08:09 G	7746131.69	7746131.84	7746132.02	0.0088	0.0068
Moon	16496-02-01 10:48 G	7746131.80	7746131.95	7746132.14	0.0088	0.0066 *
Moon	16497-02-02 16:04 G	7746499.05	7746499.17	7746499.34	0.0088	0.0073
Earth	16497-02-02 19:55 G	7746499.20	7746499.33	7746499.50	0.0088	0.0072 *
Earth	16498-02-05 07:26 G	7746866.70	7746866.81	7746866.97	0.0088	0.0076
Moon	16498-02-05 11:02 G	7746866.84	7746866.96	7746867.13	0.0088	0.0073 *
Moon	16499-02-07 16:04 G	7747234.10	7747234.17	7747234.29	0.0088	0.0082
Earth	16499-02-07 19:40 G	7747234.22	7747234.32	7747234.45	0.0088	0.0079 *
Earth	16500-02-10 07:12 G	7747601.74	7747601.80	7747601.92	0.0088	0.0083
Moon	16500-02-10 10:04 G	7747601.82	7747601.92	7747602.05	0.0088	0.0080 *
Moon	16501-02-12 18:14 G	7747969.26	7747969.26	7747969.30	0.0088	0.0088
Earth	16501-02-12 19:26 G	7747969.27	7747969.31	7747969.39	0.0088	0.0086 *

Mars	16501-06-10 18:14 G	7748087.00	7748087.26	7748087.55	0.0088	0.0044
Moon	16502-02-15 08:24 G	7748336.79	7748336.85	7748336.91	0.0088	0.0086
Mars	16503-05-06 11:16 G	7748781.71	7748781.97	7748782.27	0.0088	0.0042
Venus	16524-03-04 10:04 G	7756389.82	7756389.92	7756390.03	0.0089	0.0078
Venus	16524-10-15 23:16 G	7756615.31	7756615.47	7756615.64	0.0089	0.0058
Venus	16525-05-29 12:14 G	7756840.83	7756841.01	7756841.22	0.0089	0.0039
Venus	16526-01-10 01:40 G	7757066.36	7757066.57	7757066.79	0.0089	0.0018
Venus	16526-08-23 15:07 G	7757291.91	7757292.13	7757292.35	0.0089	0.0002
Venus	16527-04-06 04:19 G	7757517.47	7757517.68	7757517.89	0.0089	0.0022
Venus	16527-11-17 17:31 G	7757743.04	7757743.23	7757743.42	0.0089	0.0043
Venus	16528-06-30 06:14 G	7757968.63	7757968.76	7757968.94	0.0089	0.0063
Venus	16529-02-10 19:40 G	7758194.26	7758194.32	7758194.42	0.0089	0.0084
Mercury	16529-09-16 20:09 G	7758412.29	7758412.34	7758412.40	0.0089	0.0083
Mercury	16529-12-13 22:19 G	7758500.35	7758500.43	7758500.53	0.0089	0.0074
Mercury	16530-03-12 00:28 G	7758588.43	7758588.52	7758588.64	0.0089	0.0066
Mercury	16530-06-08 02:38 G	7758676.50	7758676.61	7758676.74	0.0089	0.0058
Jupiter	16530-08-07 04:33 G	7758736.20	7758736.69	7758737.22	0.0089	0.0017
Mercury	16530-09-04 05:02 G	7758764.58	7758764.71	7758764.85	0.0089	0.0050
Mercury	16530-12-01 07:12 G	7758852.67	7758852.80	7758852.94	0.0089	0.0042
Mercury	16531-02-27 09:21 G	7758940.75	7758940.89	7758941.04	0.0089	0.0034
Mercury	16531-05-26 11:31 G	7759028.84	7759028.98	7759029.14	0.0089	0.0026
Mercury	16531-08-22 13:40 G	7759116.92	7759117.07	7759117.23	0.0089	0.0018
Mercury	16531-11-18 15:50 G	7759205.01	7759205.16	7759205.32	0.0089	0.0010
Mercury	16532-02-14 18:14 G	7759293.10	7759293.26	7759293.41	0.0089	0.0003
Mercury	16532-05-12 20:09 G	7759381.19	7759381.34	7759381.50	0.0089	0.0007
Mercury	16532-08-08 22:19 G	7759469.28	7759469.43	7759469.59	0.0089	0.0015
Mercury	16532-11-05 00:14 G	7759557.37	7759557.51	7759557.67	0.0089	0.0023
Mercury	16533-02-01 02:38 G	7759645.46	7759645.61	7759645.75	0.0089	0.0031
Mercury	16533-04-30 04:33 G	7759733.55	7759733.69	7759733.83	0.0089	0.0039
Mercury	16533-07-27 06:28 G	7759821.65	7759821.77	7759821.91	0.0089	0.0047

Mercury	16533-10-23 08:38 G	7759909.74	7759909.86	7759909.99	0.0089	0.0054
Mercury	16534-01-19 10:33 G	7759997.84	7759997.94	7759998.06	0.0089	0.0062
Mercury	16534-04-17 12:43 G	7760085.94	7760086.03	7760086.13	0.0089	0.0070
Mercury	16534-07-14 14:38 G	7760174.05	7760174.11	7760174.19	0.0089	0.0078
Mercury	16534-10-10 16:33 G	7760262.16	7760262.19	7760262.25	0.0089	0.0085
Moon	16540-05-12 16:48 G	7762303.19	7762303.20	7762303.27	0.0089	0.0089
Earth	16541-05-15 06:57 G	7762670.78	7762670.79	7762670.84	0.0089	0.0089
Moon	16542-05-17 16:48 G	7763038.12	7763038.20	7763038.34	0.0089	0.0082
Earth	16542-05-17 20:09 G	7763038.29	7763038.34	7763038.44	0.0089	0.0086 *
Earth	16543-05-20 09:36 G	7763405.81	7763405.90	7763406.02	0.0090	0.0082
Moon	16543-05-20 12:28 G	7763405.97	7763406.02	7763406.12	0.0090	0.0086 *
Moon	16544-05-21 18:57 G	7763773.17	7763773.29	7763773.45	0.0090	0.0075
Earth	16544-05-21 22:33 G	7763773.35	7763773.44	7763773.59	0.0090	0.0079 *
Earth	16545-05-24 11:45 G	7764140.87	7764140.99	7764141.15	0.0090	0.0075
Moon	16545-05-24 15:21 G	7764141.02	7764141.14	7764141.28	0.0090	0.0078 *
Moon	16546-05-26 22:33 G	7764508.28	7764508.44	7764508.61	0.0090	0.0068
Earth	16546-05-27 00:57 G	7764508.41	7764508.54	7764508.72	0.0090	0.0071 *
Earth	16547-05-29 14:09 G	7764875.94	7764876.09	7764876.28	0.0090	0.0067
Moon	16547-05-29 16:04 G	7764876.03	7764876.17	7764876.36	0.0090	0.0070 *
Moon	16548-05-31 02:38 G	7765243.44	7765243.61	7765243.81	0.0090	0.0060
Earth	16548-05-31 03:07 G	7765243.46	7765243.63	7765243.83	0.0090	0.0063 *
Moon	16549-06-02 15:50 G	7765610.98	7765611.16	7765611.38	0.0090	0.0061
Earth	16549-06-02 15:50 G	7765610.99	7765611.16	7765611.38	0.0090	0.0059 *
Earth	16550-06-05 05:16 G	7765978.52	7765978.72	7765978.93	0.0090	0.0054
Moon	16550-06-05 06:43 G	7765978.59	7765978.78	7765979.00	0.0090	0.0052 *
Moon	16551-06-07 15:07 G	7766345.94	7766346.13	7766346.36	0.0090	0.0053
Earth	16551-06-07 18:00 G	7766346.05	7766346.25	7766346.48	0.0090	0.0050 *
Earth	16552-06-09 06:43 G	7766713.58	7766713.78	7766714.03	0.0090	0.0046
Moon	16552-06-09 09:50 G	7766713.71	7766713.91	7766714.15	0.0090	0.0044 *
Moon	16553-06-11 15:50 G	7767080.96	7767081.16	7767081.41	0.0090	0.0044



Earth	16553-06-11 19:55 G	7767081.11	7767081.33	7767081.57	0.0090	0.0041	*
Earth	16554-06-14 08:38 G	7767448.64	7767448.86	7767449.11	0.0090	0.0037	
Moon	16554-06-14 12:14 G	7767448.77	7767449.01	7767449.26	0.0090	0.0034	*
Moon	16555-06-16 18:43 G	7767816.05	7767816.28	7767816.52	0.0090	0.0033	
Earth	16555-06-16 21:50 G	7767816.18	7767816.41	7767816.66	0.0090	0.0032	*
Earth	16556-06-18 10:48 G	7768183.70	7768183.95	7768184.19	0.0090	0.0027	
Moon	16556-06-18 12:43 G	7768183.79	7768184.03	7768184.30	0.0090	0.0026	*
Moon	16557-06-20 22:48 G	7768551.21	7768551.45	7768551.69	0.0090	0.0024	
Earth	16557-06-20 23:16 G	7768551.23	7768551.47	7768551.73	0.0090	0.0023	*
Earth	16558-06-23 12:14 G	7768918.76	7768919.01	7768919.27	0.0090	0.0018	
Moon	16558-06-23 12:14 G	7768918.76	7768919.01	7768919.28	0.0090	0.0017	*
Earth	16559-06-26 00:57 G	7769286.28	7769286.54	7769286.79	0.0090	0.0013	
Moon	16559-06-26 02:09 G	7769286.35	7769286.59	7769286.84	0.0090	0.0014	*
Moon	16560-06-27 10:48 G	7769653.69	7769653.95	7769654.22	0.0090	0.0007	
Earth	16560-06-27 13:26 G	7769653.81	7769654.06	7769654.32	0.0090	0.0008	*
Earth	16561-06-30 01:40 G	7770021.32	7770021.57	7770021.83	0.0090	0.0004	
Moon	16561-06-30 04:33 G	7770021.44	7770021.69	7770021.95	0.0090	0.0004	*
Moon	16562-07-02 10:33 G	7770388.68	7770388.94	7770389.20	0.0089	0.0002	
Earth	16562-07-02 14:24 G	7770388.84	7770389.10	7770389.35	0.0089	0.0002	*
Earth	16563-07-05 02:24 G	7770756.35	7770756.60	7770756.86	0.0089	0.0007	
Moon	16563-07-05 06:00 G	7770756.49	7770756.75	7770757.01	0.0089	0.0005	*
Moon	16564-07-06 11:31 G	7771123.73	7771123.98	7771124.23	0.0089	0.0011	
Earth	16564-07-06 14:52 G	7771123.86	7771124.12	7771124.37	0.0089	0.0011	*
Earth	16565-07-09 02:52 G	7771491.37	7771491.62	7771491.88	0.0089	0.0015	
Moon	16565-07-09 05:02 G	7771491.46	7771491.71	7771491.98	0.0089	0.0016	*
Moon	16566-07-11 14:09 G	7771858.86	7771859.09	7771859.34	0.0089	0.0020	
Earth	16566-07-11 15:07 G	7771858.89	7771859.13	7771859.39	0.0089	0.0020	*
Earth	16567-07-14 03:21 G	7772226.40	7772226.64	7772226.89	0.0089	0.0025	
Moon	16567-07-14 03:36 G	7772226.41	7772226.65	7772226.92	0.0089	0.0025	*
Earth	16568-07-15 15:21 G	7772593.91	7772594.14	7772594.40	0.0089	0.0030	

Moon	16568-07-15 16:48 G	7772593.98	7772594.20	7772594.45	0.0089	0.0030	*
Moon	16569-07-18 01:12 G	7772961.32	7772961.55	7772961.81	0.0089	0.0034	
Earth	16569-07-18 03:50 G	7772961.43	7772961.66	7772961.90	0.0089	0.0034	*
Earth	16570-07-20 15:36 G	7773328.93	7773329.15	7773329.40	0.0089	0.0038	
Moon	16570-07-20 18:28 G	7773329.06	7773329.27	7773329.51	0.0089	0.0037	*
Moon	16571-07-23 00:14 G	7773696.29	7773696.51	7773696.74	0.0089	0.0043	
Earth	16571-07-23 03:50 G	7773696.44	7773696.66	7773696.89	0.0089	0.0043	*
Earth	16572-07-24 15:36 G	7774063.94	7774064.15	7774064.37	0.0089	0.0047	
Moon	16572-07-24 18:43 G	7774064.08	7774064.28	7774064.52	0.0089	0.0046	*
Moon	16573-07-27 00:00 G	7774431.31	7774431.50	7774431.71	0.0089	0.0053	
Earth	16573-07-27 02:52 G	7774431.44	7774431.62	7774431.86	0.0089	0.0052	*
Earth	16574-07-29 14:38 G	7774798.93	7774799.11	7774799.34	0.0089	0.0056	
Moon	16574-07-29 17:02 G	7774799.02	7774799.21	7774799.44	0.0089	0.0054	*
Moon	16575-08-01 01:12 G	7775166.39	7775166.55	7775166.75	0.0089	0.0061	
Earth	16575-08-01 02:24 G	7775166.43	7775166.60	7775166.81	0.0089	0.0059	*
Earth	16576-08-02 13:55 G	7775533.92	7775534.08	7775534.28	0.0089	0.0063	
Moon	16576-08-02 14:24 G	7775533.92	7775534.10	7775534.31	0.0089	0.0061	*
Earth	16577-08-05 01:12 G	7775901.41	7775901.55	7775901.75	0.0089	0.0068	
Moon	16577-08-05 02:52 G	7775901.48	7775901.62	7775901.80	0.0089	0.0068	*
Moon	16578-08-07 11:02 G	7776268.80	7776268.96	7776269.13	0.0089	0.0070	
Earth	16578-08-07 13:26 G	7776268.91	7776269.06	7776269.22	0.0089	0.0071	*
Earth	16579-08-10 00:28 G	7776636.40	7776636.52	7776636.68	0.0089	0.0074	
Moon	16579-08-10 03:36 G	7776636.53	7776636.65	7776636.79	0.0089	0.0077	*
Moon	16580-08-11 08:24 G	7777003.73	7777003.85	7777003.99	0.0089	0.0077	
Earth	16580-08-11 11:45 G	7777003.90	7777003.99	7777004.14	0.0089	0.0078	*
Earth	16581-08-13 23:31 G	7777371.39	7777371.48	7777371.60	0.0089	0.0081	
Moon	16581-08-14 02:38 G	7777371.55	7777371.61	7777371.73	0.0089	0.0083	*
Moon	16582-08-16 07:40 G	7777738.75	7777738.82	7777738.94	0.0089	0.0082	
Earth	16582-08-16 11:16 G	7777738.90	7777738.97	7777739.06	0.0089	0.0084	*
Mars	16583-02-20 07:55 G	7777926.53	7777926.83	7777927.14	0.0089	0.0021	

Earth	16583-08-18 22:33 G	7778106.40	7778106.44	7778106.49	0.0089	0.0087
Moon	16584-08-20 08:38 G	7778473.86	7778473.86	7778473.89	0.0089	0.0089
Mars	16585-01-15 03:21 G	7778621.44	7778621.64	7778621.86	0.0089	0.0065
Venus	16605-09-08 20:24 G	7786162.25	7786162.35	7786162.50	0.0088	0.0073
Venus	16606-04-22 09:36 G	7786387.73	7786387.90	7786388.08	0.0088	0.0052
Venus	16606-12-03 22:19 G	7786613.24	7786613.43	7786613.64	0.0088	0.0033
Venus	16607-07-17 11:16 G	7786838.76	7786838.97	7786839.20	0.0088	0.0014
Venus	16608-02-28 00:14 G	7787064.29	7787064.51	7787064.73	0.0088	0.0006
Venus	16608-10-10 12:43 G	7787289.83	7787290.03	7787290.25	0.0088	0.0026
Venus	16609-05-24 01:26 G	7787515.38	7787515.56	7787515.76	0.0088	0.0046
Venus	16610-01-04 13:55 G	7787740.95	7787741.08	7787741.25	0.0088	0.0065
Venus	16610-08-18 02:52 G	7787966.58	7787966.62	7787966.70	0.0088	0.0085
Mercury	16611-03-17 20:38 G	7788178.32	7788178.36	7788178.44	0.0088	0.0081
Mercury	16611-06-13 22:48 G	7788266.38	7788266.45	7788266.55	0.0088	0.0073
Mercury	16611-09-10 00:43 G	7788354.44	7788354.53	7788354.65	0.0088	0.0066
Mercury	16611-12-07 02:52 G	7788442.52	7788442.62	7788442.75	0.0088	0.0059
Mercury	16612-03-04 05:16 G	7788530.59	7788530.72	7788530.85	0.0088	0.0051
Mercury	16612-05-31 07:12 G	7788618.67	7788618.80	7788618.94	0.0088	0.0043
Mercury	16612-08-27 09:21 G	7788706.75	7788706.89	7788707.04	0.0088	0.0035
Mercury	16612-11-23 11:16 G	7788794.83	7788794.97	7788795.13	0.0088	0.0028
Mercury	16613-02-19 13:26 G	7788882.91	7788883.06	7788883.22	0.0088	0.0020
Mercury	16613-05-18 15:50 G	7788971.00	7788971.16	7788971.31	0.0088	0.0012
Mercury	16613-08-14 17:45 G	7789059.09	7789059.24	7789059.40	0.0088	0.0005
Mercury	16613-11-10 19:55 G	7789147.17	7789147.33	7789147.49	0.0088	0.0004
Mercury	16614-02-06 22:04 G	7789235.26	7789235.42	7789235.58	0.0088	0.0011
Mercury	16614-05-06 00:14 G	7789323.36	7789323.51	7789323.67	0.0088	0.0019
Mercury	16614-08-02 02:24 G	7789411.45	7789411.60	7789411.75	0.0088	0.0027
Mercury	16614-10-29 04:19 G	7789499.55	7789499.68	7789499.84	0.0088	0.0035
Mercury	16615-01-25 06:28 G	7789587.64	7789587.77	7789587.92	0.0088	0.0043
Mercury	16615-04-23 08:38 G	7789675.74	7789675.86	7789676.01	0.0088	0.0051

Mercury	16615-07-20 10:48 G	7789763.85	7789763.95	7789764.09	0.0088	0.0059
Mercury	16615-10-16 12:57 G	7789851.96	7789852.04	7789852.16	0.0088	0.0067
Mercury	16616-01-12 15:21 G	7789940.07	7789940.14	7789940.24	0.0088	0.0075
Mercury	16616-04-09 17:31 G	7790028.19	7790028.23	7790028.30	0.0088	0.0083
Moon	16620-11-08 03:36 G	7791701.65	7791701.65	7791701.70	0.0088	0.0088
Earth	16622-11-12 23:45 G	7792436.45	7792436.49	7792436.57	0.0088	0.0085
Moon	16622-11-13 03:07 G	7792436.54	7792436.63	7792436.72	0.0088	0.0081 *
Moon	16623-11-15 06:43 G	7792803.75	7792803.78	7792803.86	0.0088	0.0086
Earth	16623-11-15 10:04 G	7792803.85	7792803.92	7792804.03	0.0088	0.0082 *
Earth	16624-11-16 20:09 G	7793171.25	7793171.34	7793171.47	0.0088	0.0079
Moon	16624-11-17 00:14 G	7793171.38	7793171.51	7793171.65	0.0088	0.0074 *
Moon	16625-11-19 03:07 G	7793538.55	7793538.63	7793538.76	0.0088	0.0080
Earth	16625-11-19 06:14 G	7793538.66	7793538.76	7793538.92	0.0088	0.0076 *
Earth	16626-11-21 16:48 G	7793906.07	7793906.20	7793906.36	0.0088	0.0072
Moon	16626-11-21 19:26 G	7793906.16	7793906.31	7793906.49	0.0088	0.0068 *
Moon	16627-11-24 01:26 G	7794273.43	7794273.56	7794273.70	0.0088	0.0073
Earth	16627-11-24 02:52 G	7794273.49	7794273.62	7794273.80	0.0088	0.0069 *
Moon	16628-11-25 13:26 G	7794640.89	7794641.06	7794641.27	0.0088	0.0061
Earth	16628-11-25 13:26 G	7794640.90	7794641.06	7794641.24	0.0088	0.0065 *
Earth	16629-11-27 23:16 G	7795008.32	7795008.47	7795008.68	0.0088	0.0062
Moon	16629-11-28 00:43 G	7795008.37	7795008.53	7795008.70	0.0088	0.0065 *
Moon	16630-11-30 08:24 G	7795375.64	7795375.85	7795376.06	0.0088	0.0053
Earth	16630-11-30 09:50 G	7795375.74	7795375.91	7795376.13	0.0088	0.0058 *
Earth	16631-12-02 20:24 G	7795743.17	7795743.35	7795743.57	0.0088	0.0054
Moon	16631-12-02 23:45 G	7795743.31	7795743.49	7795743.69	0.0088	0.0058 *
Moon	16632-12-04 03:36 G	7796110.45	7796110.65	7796110.89	0.0088	0.0046
Earth	16632-12-04 07:12 G	7796110.60	7796110.80	7796111.02	0.0088	0.0050 *
Earth	16633-12-06 17:31 G	7796478.03	7796478.23	7796478.47	0.0088	0.0046
Moon	16633-12-06 21:07 G	7796478.19	7796478.38	7796478.61	0.0088	0.0051 *
Moon	16634-12-09 00:57 G	7796845.33	7796845.54	7796845.79	0.0088	0.0038

Earth	16634-12-09 04:04 G	7796845.46	7796845.67	7796845.91	0.0088	0.0042	*
Earth	16635-12-11 14:38 G	7797212.89	7797213.11	7797213.36	0.0088	0.0038	
Moon	16635-12-11 17:02 G	7797212.99	7797213.21	7797213.46	0.0088	0.0042	*
Moon	16636-12-13 00:00 G	7797580.27	7797580.50	7797580.74	0.0088	0.0029	
Earth	16636-12-13 01:12 G	7797580.33	7797580.55	7797580.80	0.0088	0.0034	*
Moon	16637-12-15 11:16 G	7797947.74	7797947.97	7797948.23	0.0088	0.0034	
Earth	16637-12-15 11:31 G	7797947.75	7797947.98	7797948.24	0.0088	0.0030	*
Earth	16638-12-17 22:33 G	7798315.19	7798315.44	7798315.69	0.0088	0.0025	
Moon	16638-12-17 23:16 G	7798315.24	7798315.47	7798315.73	0.0088	0.0022	*
Moon	16639-12-20 06:28 G	7798682.53	7798682.77	7798683.04	0.0088	0.0026	
Earth	16639-12-20 08:52 G	7798682.63	7798682.87	7798683.13	0.0088	0.0021	*
Earth	16640-12-21 19:26 G	7799050.07	7799050.31	7799050.58	0.0088	0.0017	
Moon	16640-12-21 23:02 G	7799050.21	7799050.46	7799050.71	0.0088	0.0012	*
Moon	16641-12-24 02:52 G	7799417.37	7799417.62	7799417.88	0.0088	0.0017	
Earth	16641-12-24 06:28 G	7799417.51	7799417.77	7799418.03	0.0088	0.0012	*
Earth	16642-12-26 17:02 G	7799784.96	7799785.21	7799785.47	0.0088	0.0008	
Moon	16642-12-26 20:52 G	7799785.11	7799785.37	7799785.63	0.0088	0.0003	*
Moon	16643-12-29 01:12 G	7800152.30	7800152.55	7800152.81	0.0088	0.0008	
Earth	16643-12-29 04:04 G	7800152.41	7800152.67	7800152.93	0.0088	0.0004	*
Earth	16644-12-30 15:07 G	7800519.87	7800520.13	7800520.39	0.0088	0.0001	
Moon	16644-12-30 17:16 G	7800519.96	7800520.22	7800520.49	0.0088	0.0005	*
Moon	16646-01-02 00:43 G	7800887.28	7800887.53	7800887.78	0.0088	0.0001	
Earth	16646-01-02 01:55 G	7800887.32	7800887.58	7800887.84	0.0088	0.0005	*
Moon	16647-01-04 12:14 G	7801254.75	7801255.01	7801255.28	0.0088	0.0014	
Earth	16647-01-04 12:57 G	7801254.79	7801255.04	7801255.30	0.0088	0.0010	*
Earth	16648-01-07 00:00 G	7801622.25	7801622.50	7801622.76	0.0088	0.0014	
Moon	16648-01-07 01:26 G	7801622.31	7801622.56	7801622.81	0.0088	0.0010	*
Moon	16649-01-08 08:24 G	7801989.61	7801989.85	7801990.12	0.0088	0.0023	
Earth	16649-01-08 11:16 G	7801989.71	7801989.97	7801990.22	0.0088	0.0018	*
Earth	16650-01-10 22:04 G	7802357.18	7802357.42	7802357.68	0.0088	0.0023	

Moon	16650-01-11 01:40 G	7802357.32	7802357.57	7802357.82	0.0088	0.0018	*
Moon	16651-01-13 06:00 G	7802724.51	7802724.75	7802724.99	0.0088	0.0031	
Earth	16651-01-13 09:07 G	7802724.65	7802724.88	7802725.14	0.0088	0.0027	*
Earth	16652-01-15 20:24 G	7803092.12	7803092.35	7803092.60	0.0088	0.0031	
Moon	16652-01-16 00:00 G	7803092.27	7803092.50	7803092.76	0.0088	0.0027	*
Moon	16653-01-17 05:02 G	7803459.50	7803459.71	7803459.95	0.0088	0.0040	
Earth	16653-01-17 07:55 G	7803459.60	7803459.83	7803460.07	0.0088	0.0035	*
Earth	16654-01-19 18:43 G	7803827.07	7803827.28	7803827.53	0.0088	0.0040	
Moon	16654-01-19 20:52 G	7803827.14	7803827.37	7803827.63	0.0088	0.0036	*
Moon	16655-01-22 05:31 G	7804194.53	7804194.73	7804194.94	0.0088	0.0048	
Earth	16655-01-22 06:14 G	7804194.55	7804194.76	7804195.00	0.0088	0.0044	*
Moon	16656-01-24 17:16 G	7804561.99	7804562.22	7804562.46	0.0088	0.0044	
Earth	16656-01-24 17:45 G	7804562.04	7804562.24	7804562.47	0.0088	0.0048	*
Earth	16657-01-26 05:16 G	7804929.53	7804929.72	7804929.94	0.0088	0.0052	
Moon	16657-01-26 06:43 G	7804929.60	7804929.78	7804929.99	0.0088	0.0056	*
Moon	16658-01-28 14:24 G	7805296.90	7805297.10	7805297.33	0.0088	0.0051	
Earth	16658-01-28 17:02 G	7805297.03	7805297.21	7805297.43	0.0088	0.0056	*
Earth	16659-01-31 04:33 G	7805664.52	7805664.69	7805664.90	0.0088	0.0060	
Moon	16659-01-31 08:09 G	7805664.68	7805664.84	7805665.03	0.0088	0.0065	*
Moon	16660-02-02 13:12 G	7806031.87	7806032.05	7806032.26	0.0088	0.0059	
Earth	16660-02-02 17:02 G	7806032.03	7806032.21	7806032.39	0.0088	0.0064	*
Earth	16661-02-04 04:19 G	7806399.53	7806399.68	7806399.87	0.0088	0.0068	
Moon	16661-02-04 08:24 G	7806399.70	7806399.85	7806400.01	0.0088	0.0072	*
Moon	16662-02-06 13:40 G	7806766.92	7806767.07	7806767.25	0.0088	0.0067	
Earth	16662-02-06 15:50 G	7806767.04	7806767.16	7806767.35	0.0088	0.0072	*
Earth	16663-02-09 04:04 G	7807134.55	7807134.67	7807134.83	0.0088	0.0074	
Moon	16663-02-09 06:00 G	7807134.66	7807134.75	7807134.90	0.0088	0.0078	*
Moon	16664-02-11 15:21 G	7807502.01	7807502.14	7807502.28	0.0088	0.0074	
Earth	16664-02-11 16:19 G	7807502.07	7807502.18	7807502.31	0.0088	0.0078	*
Mars	16665-01-24 06:43 G	7807849.67	7807849.78	7807849.96	0.0088	0.0079	

Moon	16665-02-13 03:36 G	7807869.58	7807869.65	7807869.72	0.0088	0.0085
Earth	16665-02-13 03:36 G	7807869.58	7807869.65	7807869.78	0.0088	0.0082 *
Earth	16666-02-15 15:36 G	7808237.10	7808237.15	7808237.25	0.0088	0.0085
Moon	16666-02-15 17:16 G	7808237.13	7808237.22	7808237.33	0.0088	0.0081 *
Mars	16666-12-20 04:04 G	7808544.36	7808544.67	7808544.99	0.0088	0.0007
Earth	16667-02-18 03:50 G	7808604.64	7808604.66	7808604.72	0.0088	0.0088
Moon	16668-02-20 19:12 G	7808972.27	7808972.30	7808972.38	0.0088	0.0087
Venus	16688-06-06 19:40 G	7816384.30	7816384.32	7816384.38	0.0089	0.0088
Venus	16689-01-18 09:07 G	7816609.75	7816609.88	7816610.04	0.0089	0.0067
Venus	16689-08-31 22:19 G	7816835.26	7816835.43	7816835.63	0.0089	0.0047
Venus	16690-04-14 11:31 G	7817060.78	7817060.98	7817061.20	0.0089	0.0027
Venus	16690-11-26 00:43 G	7817286.32	7817286.53	7817286.76	0.0089	0.0007
Venus	16691-07-09 14:09 G	7817511.87	7817512.09	7817512.31	0.0089	0.0013
Venus	16692-02-20 03:07 G	7817737.44	7817737.63	7817737.85	0.0089	0.0034
Venus	16692-10-02 16:19 G	7817963.02	7817963.18	7817963.37	0.0089	0.0054
Venus	16693-05-16 05:31 G	7818188.62	7818188.73	7818188.87	0.0089	0.0074
Mercury	16694-03-18 16:48 G	7818495.19	7818495.20	7818495.23	0.0089	0.0088
Mercury	16694-06-14 18:57 G	7818583.24	7818583.29	7818583.37	0.0089	0.0080
Mercury	16694-09-10 21:21 G	7818671.31	7818671.39	7818671.49	0.0089	0.0072
Mercury	16694-12-07 23:31 G	7818759.38	7818759.48	7818759.60	0.0089	0.0064
Mercury	16695-03-06 01:40 G	7818847.46	7818847.57	7818847.71	0.0089	0.0056
Mercury	16695-06-02 03:50 G	7818935.54	7818935.66	7818935.81	0.0089	0.0048
Mercury	16695-08-29 06:00 G	7819023.62	7819023.75	7819023.91	0.0089	0.0040
Mercury	16695-11-25 08:38 G	7819111.71	7819111.86	7819112.01	0.0089	0.0031
Mercury	16696-02-21 10:48 G	7819199.80	7819199.95	7819200.10	0.0089	0.0022
Mercury	16696-05-19 12:57 G	7819287.88	7819288.04	7819288.19	0.0089	0.0014
Mercury	16696-08-15 15:07 G	7819375.97	7819376.13	7819376.28	0.0089	0.0006
Jupiter	16696-10-04 23:16 G	7819425.98	7819426.47	7819427.01	0.0089	0.0013
Mercury	16696-11-11 17:16 G	7819464.06	7819464.22	7819464.37	0.0089	0.0002
Mercury	16697-02-07 19:12 G	7819552.15	7819552.30	7819552.46	0.0089	0.0010

Mercury	16697-05-06 21:21 G	7819640.24	7819640.39	7819640.55	0.0089	0.0018
Mercury	16697-08-02 23:31 G	7819728.33	7819728.48	7819728.63	0.0089	0.0026
Mercury	16697-10-30 01:40 G	7819816.43	7819816.57	7819816.71	0.0089	0.0034
Mercury	16698-01-26 03:36 G	7819904.52	7819904.65	7819904.79	0.0089	0.0042
Mercury	16698-04-24 05:45 G	7819992.62	7819992.74	7819992.87	0.0089	0.0049
Mercury	16698-07-21 07:40 G	7820080.71	7820080.82	7820080.95	0.0089	0.0057
Mercury	16698-10-17 09:36 G	7820168.81	7820168.90	7820169.02	0.0089	0.0066
Mercury	16699-01-13 12:00 G	7820256.91	7820257.00	7820257.09	0.0089	0.0073
Mercury	16699-04-11 13:55 G	7820345.02	7820345.08	7820345.15	0.0089	0.0080
Mercury	16699-07-08 15:36 G	7820433.15	7820433.15	7820433.19	0.0089	0.0089
Earth	16704-05-14 00:43 G	7822203.52	7822203.53	7822203.58	0.0089	0.0089
Moon	16705-05-16 10:33 G	7822570.87	7822570.94	7822571.06	0.0089	0.0084
Earth	16705-05-16 13:55 G	7822571.03	7822571.08	7822571.17	0.0089	0.0086 *
Earth	16706-05-19 02:52 G	7822938.55	7822938.62	7822938.74	0.0089	0.0083
Moon	16706-05-19 06:28 G	7822938.71	7822938.77	7822938.88	0.0089	0.0085 *
Moon	16707-05-21 13:12 G	7823305.93	7823306.05	7823306.19	0.0089	0.0077
Earth	16707-05-21 16:04 G	7823306.08	7823306.17	7823306.32	0.0089	0.0080 *
Earth	16708-05-23 05:16 G	7823673.61	7823673.72	7823673.88	0.0090	0.0076
Moon	16708-05-23 08:38 G	7823673.76	7823673.86	7823674.01	0.0090	0.0079 *
Moon	16709-05-25 17:02 G	7824041.06	7824041.21	7824041.37	0.0090	0.0070
Earth	16709-05-25 18:28 G	7824041.15	7824041.27	7824041.45	0.0090	0.0073 *
Earth	16710-05-28 07:55 G	7824408.68	7824408.83	7824409.02	0.0090	0.0069
Moon	16710-05-28 09:21 G	7824408.74	7824408.89	7824409.07	0.0090	0.0071 *
Moon	16711-05-30 20:52 G	7824776.21	7824776.37	7824776.57	0.0090	0.0062
Earth	16711-05-30 21:07 G	7824776.22	7824776.38	7824776.58	0.0090	0.0065 *
Moon	16712-06-01 09:07 G	7825143.69	7825143.88	7825144.07	0.0090	0.0063
Earth	16712-06-01 10:19 G	7825143.75	7825143.93	7825144.13	0.0090	0.0061 *
Earth	16713-06-03 23:16 G	7825511.28	7825511.47	7825511.68	0.0090	0.0057
Moon	16713-06-04 01:26 G	7825511.37	7825511.56	7825511.77	0.0090	0.0054 *
Moon	16714-06-06 08:52 G	7825878.69	7825878.87	7825879.10	0.0090	0.0057



Earth	16714-06-06 12:14 G	7825878.81	7825879.01	7825879.23	0.0090	0.0053 *
Earth	16715-06-09 00:57 G	7826246.34	7826246.54	7826246.77	0.0090	0.0049
Moon	16715-06-09 04:33 G	7826246.49	7826246.69	7826246.93	0.0090	0.0046 *
Moon	16716-06-10 10:33 G	7826613.73	7826613.94	7826614.16	0.0090	0.0048
Earth	16716-06-10 13:40 G	7826613.87	7826614.07	7826614.31	0.0090	0.0045 *
Earth	16717-06-13 02:24 G	7826981.39	7826981.60	7826981.85	0.0090	0.0041
Moon	16717-06-13 06:28 G	7826981.53	7826981.77	7826982.01	0.0090	0.0036 *
Moon	16718-06-15 13:12 G	7827348.84	7827349.05	7827349.29	0.0090	0.0040
Earth	16718-06-15 15:36 G	7827348.92	7827349.15	7827349.40	0.0090	0.0036 *
Earth	16719-06-18 04:19 G	7827716.45	7827716.68	7827716.93	0.0090	0.0032
Moon	16719-06-18 06:00 G	7827716.51	7827716.75	7827717.01	0.0090	0.0028 *
Moon	16720-06-19 16:33 G	7828083.97	7828084.19	7828084.44	0.0090	0.0031
Earth	16720-06-19 17:16 G	7828083.98	7828084.22	7828084.47	0.0090	0.0027 *
Moon	16721-06-22 05:02 G	7828451.45	7828451.71	7828451.97	0.0090	0.0019
Earth	16721-06-22 06:00 G	7828451.51	7828451.75	7828452.01	0.0090	0.0023 *
Earth	16722-06-24 18:43 G	7828819.04	7828819.28	7828819.55	0.0090	0.0019
Moon	16722-06-24 20:52 G	7828819.12	7828819.37	7828819.61	0.0090	0.0022 *
Moon	16723-06-27 04:48 G	7829186.44	7829186.70	7829186.97	0.0090	0.0009
Earth	16723-06-27 07:40 G	7829186.57	7829186.82	7829187.08	0.0090	0.0014 *
Earth	16724-06-28 20:24 G	7829554.09	7829554.35	7829554.60	0.0090	0.0009
Moon	16724-06-28 23:45 G	7829554.24	7829554.49	7829554.75	0.0090	0.0013 *
Moon	16725-07-01 05:31 G	7829921.48	7829921.73	7829921.99	0.0089	0.0001
Earth	16725-07-01 09:07 G	7829921.62	7829921.88	7829922.13	0.0089	0.0005 *
Earth	16726-07-03 21:36 G	7830289.14	7830289.40	7830289.65	0.0089	0.0001
Moon	16726-07-04 00:57 G	7830289.28	7830289.54	7830289.80	0.0089	0.0005 *
Moon	16727-07-06 07:26 G	7830656.56	7830656.81	7830657.06	0.0089	0.0009
Earth	16727-07-06 09:50 G	7830656.65	7830656.91	7830657.17	0.0089	0.0005 *
Earth	16728-07-07 22:04 G	7831024.17	7831024.42	7831024.68	0.0089	0.0009
Moon	16728-07-08 00:00 G	7831024.24	7831024.50	7831024.77	0.0089	0.0005 *
Moon	16729-07-10 09:36 G	7831391.67	7831391.90	7831392.16	0.0089	0.0019

Earth	16729-07-10 10:19 G	7831391.68	7831391.93	7831392.19	0.0089	0.0014	*
Moon	16730-07-12 21:36 G	7831759.14	7831759.40	7831759.67	0.0089	0.0014	
Earth	16730-07-12 22:33 G	7831759.20	7831759.44	7831759.70	0.0089	0.0018	*
Earth	16731-07-15 10:48 G	7832126.71	7832126.95	7832127.21	0.0089	0.0022	
Moon	16731-07-15 12:28 G	7832126.78	7832127.02	7832127.26	0.0089	0.0027	*
Moon	16732-07-16 19:55 G	7832494.09	7832494.33	7832494.60	0.0089	0.0022	
Earth	16732-07-16 23:02 G	7832494.22	7832494.46	7832494.71	0.0089	0.0027	*
Earth	16733-07-19 10:48 G	7832861.73	7832861.95	7832862.21	0.0089	0.0032	
Moon	16733-07-19 14:24 G	7832861.88	7832862.10	7832862.35	0.0089	0.0036	*
Moon	16734-07-21 20:09 G	7833229.10	7833229.34	7833229.58	0.0089	0.0031	
Earth	16734-07-21 23:16 G	7833229.25	7833229.47	7833229.72	0.0089	0.0036	*
Earth	16735-07-24 11:16 G	7833596.75	7833596.97	7833597.21	0.0089	0.0040	
Moon	16735-07-24 14:52 G	7833596.91	7833597.12	7833597.36	0.0089	0.0044	*
Moon	16736-07-25 20:52 G	7833964.16	7833964.37	7833964.61	0.0089	0.0040	
Earth	16736-07-25 23:31 G	7833964.27	7833964.48	7833964.71	0.0089	0.0044	*
Earth	16737-07-28 11:31 G	7834331.77	7834331.98	7834332.20	0.0089	0.0048	
Moon	16737-07-28 13:12 G	7834331.86	7834332.05	7834332.29	0.0089	0.0052	*
Moon	16738-07-30 22:33 G	7834699.24	7834699.44	7834699.66	0.0089	0.0047	
Earth	16738-07-30 23:31 G	7834699.27	7834699.48	7834699.69	0.0089	0.0052	*
Moon	16739-08-02 10:04 G	7835066.73	7835066.92	7835067.13	0.0089	0.0060	
Earth	16739-08-02 11:02 G	7835066.77	7835066.96	7835067.17	0.0089	0.0056	*
Earth	16740-08-03 22:33 G	7835434.26	7835434.44	7835434.64	0.0089	0.0059	
Moon	16740-08-04 00:00 G	7835434.32	7835434.50	7835434.71	0.0089	0.0055	*
Moon	16741-08-06 07:26 G	7835801.65	7835801.81	7835801.98	0.0089	0.0068	
Earth	16741-08-06 09:50 G	7835801.76	7835801.91	7835802.12	0.0089	0.0064	*
Earth	16742-08-08 21:50 G	7836169.25	7836169.41	7836169.59	0.0089	0.0067	
Moon	16742-08-09 00:57 G	7836169.38	7836169.54	7836169.74	0.0089	0.0062	*
Moon	16743-08-11 05:31 G	7836536.61	7836536.73	7836536.89	0.0089	0.0075	
Earth	16743-08-11 08:52 G	7836536.74	7836536.87	7836537.05	0.0089	0.0070	*
Earth	16744-08-12 20:38 G	7836904.23	7836904.36	7836904.51	0.0089	0.0073	

Moon	16744-08-13 00:14 G	7836904.35	7836904.51	7836904.68	0.0089	0.0069 *
Moon	16745-08-15 05:31 G	7837271.65	7837271.73	7837271.85	0.0089	0.0081
Earth	16745-08-15 08:24 G	7837271.72	7837271.85	7837271.98	0.0089	0.0076 *
Earth	16746-08-17 18:57 G	7837639.21	7837639.29	7837639.43	0.0089	0.0080
Moon	16746-08-17 21:07 G	7837639.27	7837639.38	7837639.54	0.0089	0.0076 *
Mars	16746-10-06 21:07 G	7837689.17	7837689.38	7837689.65	0.0089	0.0057
Earth	16747-08-20 06:28 G	7838006.71	7838006.77	7838006.89	0.0089	0.0083
Moon	16747-08-20 06:28 G	7838006.74	7838006.77	7838006.82	0.0089	0.0087 *
Moon	16748-08-21 17:16 G	7838374.12	7838374.22	7838374.34	0.0089	0.0081
Earth	16748-08-21 17:45 G	7838374.21	7838374.24	7838374.34	0.0089	0.0086 *
Mars	16748-08-31 15:50 G	7838383.89	7838384.16	7838384.48	0.0089	0.0029
Earth	16749-08-24 05:16 G	7838741.71	7838741.72	7838741.77	0.0089	0.0088
Moon	16750-08-26 13:26 G	7839109.02	7839109.06	7839109.14	0.0089	0.0086
Venus	16769-12-12 06:57 G	7846156.71	7846156.79	7846156.88	0.0088	0.0081
Venus	16770-07-25 19:40 G	7846382.18	7846382.32	7846382.49	0.0088	0.0061
Venus	16771-03-08 08:38 G	7846607.67	7846607.86	7846608.06	0.0088	0.0042
Venus	16771-10-19 21:21 G	7846833.18	7846833.39	7846833.61	0.0088	0.0022
Venus	16772-06-01 10:19 G	7847058.71	7847058.93	7847059.15	0.0088	0.0002
Venus	16773-01-12 23:02 G	7847284.25	7847284.46	7847284.68	0.0088	0.0017
Venus	16773-08-26 11:45 G	7847509.80	7847509.99	7847510.20	0.0088	0.0037
Venus	16774-04-09 00:28 G	7847735.36	7847735.52	7847735.70	0.0088	0.0057
Venus	16774-11-20 12:57 G	7847960.95	7847961.04	7847961.17	0.0088	0.0076
Mercury	16775-09-16 18:00 G	7848261.22	7848261.25	7848261.29	0.0088	0.0085
Mercury	16775-12-13 19:55 G	7848349.27	7848349.33	7848349.41	0.0088	0.0078
Mercury	16776-03-10 22:04 G	7848437.33	7848437.42	7848437.52	0.0088	0.0070
Mercury	16776-06-07 00:00 G	7848525.40	7848525.50	7848525.62	0.0088	0.0063
Mercury	16776-09-03 02:09 G	7848613.48	7848613.59	7848613.72	0.0088	0.0055
Mercury	16776-11-30 04:19 G	7848701.55	7848701.68	7848701.82	0.0088	0.0048
Mercury	16777-02-26 06:14 G	7848789.63	7848789.76	7848789.91	0.0088	0.0040
Mercury	16777-05-25 08:24 G	7848877.71	7848877.85	7848878.00	0.0088	0.0032

Mercury	16777-08-21 10:33 G	7848965.79	7848965.94	7848966.10	0.0088	0.0025
Mercury	16777-11-17 12:43 G	7849053.88	7849054.03	7849054.19	0.0088	0.0017
Mercury	16778-02-13 14:52 G	7849141.96	7849142.12	7849142.28	0.0088	0.0009
Mercury	16778-05-12 17:02 G	7849230.05	7849230.21	7849230.37	0.0088	0.0001
Mercury	16778-08-08 19:12 G	7849318.14	7849318.30	7849318.46	0.0088	0.0007
Mercury	16778-11-04 21:21 G	7849406.23	7849406.39	7849406.54	0.0088	0.0014
Mercury	16779-01-31 23:16 G	7849494.32	7849494.47	7849494.63	0.0088	0.0022
Mercury	16779-04-30 01:26 G	7849582.42	7849582.56	7849582.72	0.0088	0.0030
Mercury	16779-07-27 03:36 G	7849670.51	7849670.65	7849670.80	0.0088	0.0038
Mercury	16779-10-23 05:45 G	7849758.61	7849758.74	7849758.89	0.0088	0.0046
Mercury	16780-01-19 07:55 G	7849846.71	7849846.83	7849846.97	0.0088	0.0054
Mercury	16780-04-16 10:04 G	7849934.82	7849934.92	7849935.04	0.0088	0.0062
Mercury	16780-07-13 12:14 G	7850022.93	7850023.01	7850023.12	0.0088	0.0070
Mercury	16780-10-09 14:24 G	7850111.04	7850111.10	7850111.19	0.0088	0.0078
Mercury	16781-01-05 16:33 G	7850199.18	7850199.19	7850199.24	0.0088	0.0086
Moon	16784-11-08 11:02 G	7851601.90	7851601.96	7851602.05	0.0088	0.0084
Earth	16784-11-08 13:26 G	7851602.05	7851602.06	7851602.10	0.0088	0.0087 *
Earth	16785-11-10 23:16 G	7851969.43	7851969.47	7851969.57	0.0088	0.0085
Moon	16785-11-11 02:09 G	7851969.58	7851969.59	7851969.65	0.0088	0.0087
Moon	16786-11-13 06:00 G	7852336.66	7852336.75	7852336.89	0.0088	0.0079
Earth	16786-11-13 09:50 G	7852336.84	7852336.91	7852337.02	0.0088	0.0082 *
Earth	16787-11-15 19:55 G	7852704.25	7852704.33	7852704.47	0.0088	0.0079
Moon	16787-11-16 00:00 G	7852704.40	7852704.50	7852704.59	0.0088	0.0081 *
Moon	16788-11-17 03:21 G	7853071.52	7853071.64	7853071.79	0.0088	0.0074
Earth	16788-11-17 06:28 G	7853071.66	7853071.77	7853071.92	0.0088	0.0076 *
Earth	16789-11-19 16:19 G	7853439.07	7853439.18	7853439.35	0.0088	0.0073
Moon	16789-11-19 18:57 G	7853439.17	7853439.29	7853439.44	0.0088	0.0075 *
Moon	16790-11-22 01:40 G	7853806.44	7853806.57	7853806.75	0.0088	0.0068
Earth	16790-11-22 02:38 G	7853806.48	7853806.61	7853806.79	0.0088	0.0070 *
Earth	16791-11-24 13:26 G	7854173.90	7854174.06	7854174.23	0.0088	0.0066

Moon	16791-11-24 13:12 G	7854173.90	7854174.05	7854174.24	0.0088	0.0068	*
Earth	16792-11-25 23:16 G	7854541.31	7854541.47	7854541.66	0.0088	0.0063	
Moon	16792-11-26 00:43 G	7854541.37	7854541.53	7854541.73	0.0088	0.0061	*
Moon	16793-11-28 06:57 G	7854908.62	7854908.79	7854908.99	0.0088	0.0062	
Earth	16793-11-28 09:21 G	7854908.73	7854908.89	7854909.11	0.0088	0.0060	*
Earth	16794-11-30 19:55 G	7855276.14	7855276.33	7855276.54	0.0088	0.0056	
Moon	16794-11-30 22:33 G	7855276.27	7855276.44	7855276.67	0.0088	0.0055	*
Moon	16795-12-03 02:38 G	7855643.42	7855643.61	7855643.82	0.0088	0.0055	
Earth	16795-12-03 06:43 G	7855643.57	7855643.78	7855643.99	0.0088	0.0052	*
Earth	16796-12-04 16:33 G	7856011.00	7856011.19	7856011.43	0.0088	0.0049	
Moon	16796-12-04 19:55 G	7856011.13	7856011.33	7856011.57	0.0088	0.0047	*
Moon	16797-12-07 00:28 G	7856378.31	7856378.52	7856378.74	0.0088	0.0046	
Earth	16797-12-07 03:07 G	7856378.43	7856378.63	7856378.87	0.0088	0.0045	*
Earth	16798-12-09 13:55 G	7856745.86	7856746.08	7856746.32	0.0088	0.0041	
Moon	16798-12-09 15:36 G	7856745.93	7856746.15	7856746.40	0.0088	0.0039	*
Moon	16799-12-11 23:45 G	7857113.29	7857113.49	7857113.73	0.0088	0.0039	
Earth	16799-12-12 00:28 G	7857113.30	7857113.52	7857113.77	0.0088	0.0037	*
Moon	16800-12-13 10:33 G	7857480.71	7857480.94	7857481.21	0.0088	0.0032	
Earth	16800-12-13 11:02 G	7857480.73	7857480.96	7857481.21	0.0088	0.0033	*
Earth	16801-12-15 21:36 G	7857848.17	7857848.40	7857848.66	0.0088	0.0029	
Moon	16801-12-15 23:45 G	7857848.26	7857848.49	7857848.73	0.0088	0.0031	*
Moon	16802-12-18 05:31 G	7858215.48	7858215.73	7858215.99	0.0088	0.0023	
Earth	16802-12-18 08:24 G	7858215.61	7858215.85	7858216.10	0.0088	0.0025	*
Earth	16803-12-20 18:57 G	7858583.05	7858583.29	7858583.55	0.0088	0.0021	
Moon	16803-12-20 22:19 G	7858583.19	7858583.43	7858583.68	0.0088	0.0022	*
Moon	16804-12-22 01:55 G	7858950.34	7858950.58	7858950.84	0.0088	0.0015	
Earth	16804-12-22 05:45 G	7858950.49	7858950.74	7858951.00	0.0088	0.0017	*
Earth	16805-12-24 16:19 G	7859317.93	7859318.18	7859318.44	0.0088	0.0013	
Moon	16805-12-24 19:26 G	7859318.06	7859318.31	7859318.58	0.0088	0.0014	*
Moon	16806-12-27 00:14 G	7859685.26	7859685.51	7859685.77	0.0088	0.0008	

Earth	16806-12-27 03:07 G	7859685.38	7859685.63	7859685.89	0.0088	0.0009	*
Earth	16807-12-29 13:55 G	7860052.83	7860053.08	7860053.34	0.0088	0.0005	
Moon	16807-12-29 15:21 G	7860052.88	7860053.14	7860053.42	0.0088	0.0006	*
Moon	16808-12-31 00:28 G	7860420.27	7860420.52	7860420.77	0.0088	0.0001	
Earth	16808-12-31 00:43 G	7860420.28	7860420.53	7860420.79	0.0088	0.0001	*
Moon	16810-01-02 11:02 G	7860787.70	7860787.96	7860788.23	0.0088	0.0004	
Earth	16810-01-02 11:45 G	7860787.73	7860787.99	7860788.25	0.0088	0.0004	*
Earth	16811-01-04 22:48 G	7861155.19	7861155.45	7861155.71	0.0088	0.0008	
Moon	16811-01-05 00:57 G	7861155.29	7861155.54	7861155.79	0.0088	0.0010	*
Moon	16812-01-07 06:57 G	7861522.53	7861522.79	7861523.05	0.0088	0.0011	
Earth	16812-01-07 09:50 G	7861522.66	7861522.91	7861523.17	0.0088	0.0013	*
Earth	16813-01-08 20:52 G	7861890.12	7861890.37	7861890.63	0.0088	0.0017	
Moon	16813-01-09 00:14 G	7861890.27	7861890.51	7861890.77	0.0088	0.0017	*
Moon	16814-01-11 04:19 G	7862257.44	7862257.68	7862257.94	0.0088	0.0020	
Earth	16814-01-11 07:55 G	7862257.59	7862257.83	7862258.10	0.0088	0.0021	*
Earth	16815-01-13 19:12 G	7862625.06	7862625.30	7862625.56	0.0088	0.0025	
Moon	16815-01-13 22:19 G	7862625.19	7862625.43	7862625.69	0.0088	0.0025	*
Moon	16816-01-16 03:36 G	7862992.43	7862992.65	7862992.90	0.0088	0.0029	
Earth	16816-01-16 06:28 G	7862992.53	7862992.77	7862993.02	0.0088	0.0029	*
Earth	16817-01-17 17:31 G	7863360.00	7863360.23	7863360.48	0.0088	0.0033	
Moon	16817-01-17 18:57 G	7863360.05	7863360.29	7863360.54	0.0088	0.0033	*
Earth	16818-01-20 04:33 G	7863727.47	7863727.69	7863727.94	0.0088	0.0037	
Moon	16818-01-20 04:33 G	7863727.47	7863727.69	7863727.93	0.0088	0.0037	*
Moon	16819-01-22 15:36 G	7864094.91	7864095.15	7864095.39	0.0088	0.0041	
Earth	16819-01-22 16:04 G	7864094.95	7864095.17	7864095.41	0.0088	0.0041	*
Earth	16820-01-25 03:07 G	7864462.43	7864462.63	7864462.87	0.0088	0.0045	
Moon	16820-01-25 06:00 G	7864462.53	7864462.75	7864462.97	0.0088	0.0045	*
Moon	16821-01-26 11:31 G	7864829.79	7864829.98	7864830.22	0.0088	0.0049	
Earth	16821-01-26 14:38 G	7864829.92	7864830.11	7864830.35	0.0088	0.0049	*
Earth	16822-01-29 02:24 G	7865197.40	7865197.60	7865197.81	0.0088	0.0052	

Moon	16822-01-29 05:45 G	7865197.55	7865197.74	7865197.95	0.0088	0.0053 *
Moon	16823-01-31 10:19 G	7865564.75	7865564.93	7865565.14	0.0088	0.0056
Earth	16823-01-31 13:55 G	7865564.90	7865565.08	7865565.30	0.0088	0.0056 *
Earth	16824-02-03 01:12 G	7865932.39	7865932.55	7865932.77	0.0088	0.0061
Moon	16824-02-03 05:02 G	7865932.52	7865932.71	7865932.90	0.0088	0.0061 *
Moon	16825-02-04 10:33 G	7866299.78	7866299.94	7866300.14	0.0088	0.0063
Earth	16825-02-04 13:12 G	7866299.89	7866300.05	7866300.25	0.0088	0.0064 *
Earth	16826-02-07 01:26 G	7866667.40	7866667.56	7866667.73	0.0088	0.0067
Moon	16826-02-07 02:09 G	7866667.44	7866667.59	7866667.79	0.0088	0.0068 *
Moon	16827-02-09 12:57 G	7867034.90	7867035.04	7867035.21	0.0088	0.0070
Earth	16827-02-09 12:57 G	7867034.91	7867035.04	7867035.22	0.0088	0.0070 *
Moon	16828-02-12 00:00 G	7867402.38	7867402.50	7867402.66	0.0088	0.0075
Earth	16828-02-12 00:57 G	7867402.41	7867402.54	7867402.70	0.0088	0.0073 *
Earth	16829-02-13 12:43 G	7867769.92	7867770.03	7867770.18	0.0088	0.0077
Moon	16829-02-13 14:52 G	7867770.02	7867770.12	7867770.28	0.0088	0.0077 *
Moon	16830-02-15 21:50 G	7868137.32	7868137.41	7868137.53	0.0088	0.0081
Earth	16830-02-16 00:43 G	7868137.44	7868137.53	7868137.66	0.0088	0.0080 *
Mars	16830-08-04 17:45 G	7868306.95	7868307.24	7868307.56	0.0088	0.0028
Earth	16831-02-18 12:43 G	7868504.96	7868505.03	7868505.14	0.0088	0.0083
Moon	16831-02-18 16:19 G	7868505.09	7868505.18	7868505.30	0.0088	0.0081 *
Moon	16832-02-20 21:07 G	7868872.35	7868872.38	7868872.45	0.0088	0.0087
Earth	16832-02-21 00:43 G	7868872.49	7868872.53	7868872.62	0.0088	0.0086
Mars	16832-06-29 13:26 G	7869001.83	7869002.06	7869002.31	0.0088	0.0057
Earth	16833-02-22 12:43 G	7869240.03	7869240.03	7869240.07	0.0088	0.0088
Moon	16833-02-22 16:19 G	7869240.13	7869240.18	7869240.25	0.0088	0.0086
Venus	16853-04-22 19:55 G	7876604.22	7876604.33	7876604.45	0.0089	0.0076
Venus	16853-12-04 09:07 G	7876829.71	7876829.88	7876830.06	0.0089	0.0055
Venus	16854-07-17 22:19 G	7877055.23	7877055.43	7877055.64	0.0089	0.0035
Venus	16855-02-28 11:31 G	7877280.77	7877280.98	7877281.21	0.0089	0.0015
Venus	16855-10-12 00:57 G	7877506.32	7877506.54	7877506.76	0.0089	0.0005

Venus	16856-05-24 13:55 G	7877731.87	7877732.08	7877732.30	0.0089	0.0025
Venus	16857-01-05 03:07 G	7877957.45	7877957.63	7877957.82	0.0089	0.0046
Venus	16857-08-18 15:50 G	7878183.04	7878183.16	7878183.33	0.0089	0.0067
Venus	16858-04-01 05:02 G	7878408.68	7878408.71	7878408.79	0.0089	0.0087
Mercury	16858-12-14 16:19 G	7878666.13	7878666.18	7878666.23	0.0089	0.0085
Mercury	16859-03-12 18:28 G	7878754.19	7878754.27	7878754.35	0.0089	0.0076
Mercury	16859-06-08 20:38 G	7878842.27	7878842.36	7878842.47	0.0089	0.0068
Mercury	16859-09-04 22:48 G	7878930.34	7878930.45	7878930.58	0.0089	0.0060
Mercury	16859-12-02 01:12 G	7879018.42	7879018.55	7879018.68	0.0089	0.0052
Mercury	16860-02-28 03:21 G	7879106.51	7879106.64	7879106.78	0.0089	0.0044
Mercury	16860-05-26 05:31 G	7879194.59	7879194.73	7879194.88	0.0089	0.0036
Mercury	16860-08-22 07:40 G	7879282.68	7879282.82	7879282.98	0.0089	0.0028
Mercury	16860-11-18 09:50 G	7879370.76	7879370.91	7879371.07	0.0089	0.0020
Mercury	16861-02-14 12:14 G	7879458.85	7879459.01	7879459.16	0.0089	0.0011
Mercury	16861-05-13 14:24 G	7879546.94	7879547.10	7879547.25	0.0089	0.0003
Mercury	16861-08-09 16:33 G	7879635.03	7879635.19	7879635.34	0.0089	0.0005
Mercury	16861-11-05 18:28 G	7879723.12	7879723.27	7879723.43	0.0089	0.0014
Mercury	16862-02-01 20:38 G	7879811.21	7879811.36	7879811.52	0.0089	0.0021
Mercury	16862-04-30 22:33 G	7879899.31	7879899.44	7879899.60	0.0089	0.0030
Mercury	16862-07-28 00:43 G	7879987.40	7879987.53	7879987.68	0.0089	0.0037
Mercury	16862-10-24 02:38 G	7880075.49	7880075.61	7880075.76	0.0089	0.0046
Jupiter	16862-12-06 09:07 G	7880118.44	7880118.88	7880119.38	0.0089	0.0040
Mercury	16863-01-20 05:02 G	7880163.59	7880163.71	7880163.84	0.0089	0.0053
Mercury	16863-04-18 06:57 G	7880251.69	7880251.79	7880251.91	0.0089	0.0061
Mercury	16863-07-15 08:52 G	7880339.79	7880339.87	7880339.98	0.0089	0.0069
Mercury	16863-10-11 11:02 G	7880427.89	7880427.96	7880428.05	0.0089	0.0076
Mercury	16864-01-07 13:12 G	7880516.01	7880516.05	7880516.11	0.0089	0.0084
Moon	16865-05-06 18:00 G	7881001.25	7881001.25	7881001.29	0.0089	0.0089
Earth	16867-05-11 18:57 G	7881736.28	7881736.29	7881736.36	0.0089	0.0089
Moon	16867-05-11 22:19 G	7881736.36	7881736.43	7881736.54	0.0089	0.0084 *



Earth	16868-05-13 07:55 G	7882103.79	7882103.83	7882103.94	0.0089	0.0086
Earth	16869-05-15 21:21 G	7882471.31	7882471.39	7882471.51	0.0089	0.0083
Moon	16869-05-16 00:43 G	7882471.44	7882471.53	7882471.69	0.0089	0.0079 *
Moon	16870-05-18 07:12 G	7882838.74	7882838.80	7882838.91	0.0089	0.0085
Earth	16870-05-18 10:33 G	7882838.85	7882838.94	7882839.08	0.0089	0.0080 *
Earth	16871-05-20 23:31 G	7883206.37	7883206.48	7883206.64	0.0089	0.0077
Moon	16871-05-21 02:24 G	7883206.45	7883206.60	7883206.76	0.0089	0.0072 *
Moon	16872-05-22 11:16 G	7883573.85	7883573.97	7883574.10	0.0089	0.0077
Earth	16872-05-22 12:57 G	7883573.90	7883574.04	7883574.20	0.0089	0.0073 *
Moon	16873-05-25 02:52 G	7883941.43	7883941.62	7883941.80	0.0089	0.0065
Earth	16873-05-25 01:55 G	7883941.44	7883941.58	7883941.76	0.0089	0.0070 *
Earth	16874-05-27 15:21 G	7884308.98	7884309.14	7884309.32	0.0089	0.0066
Moon	16874-05-27 16:19 G	7884309.03	7884309.18	7884309.34	0.0089	0.0070 *
Moon	16875-05-30 02:38 G	7884676.44	7884676.61	7884676.84	0.0090	0.0059
Earth	16875-05-30 04:19 G	7884676.52	7884676.68	7884676.89	0.0090	0.0063 *
Earth	16876-05-31 17:31 G	7885044.06	7885044.23	7885044.44	0.0090	0.0059
Moon	16876-05-31 20:52 G	7885044.19	7885044.37	7885044.55	0.0090	0.0063 *
Moon	16877-06-03 03:50 G	7885411.45	7885411.66	7885411.88	0.0090	0.0051
Earth	16877-06-03 07:12 G	7885411.60	7885411.80	7885412.01	0.0090	0.0055 *
Earth	16878-06-05 20:24 G	7885779.14	7885779.35	7885779.56	0.0090	0.0051
Moon	16878-06-05 23:31 G	7885779.30	7885779.48	7885779.70	0.0090	0.0055 *
Moon	16879-06-08 05:16 G	7886146.52	7886146.72	7886146.97	0.0090	0.0044
Earth	16879-06-08 08:52 G	7886146.67	7886146.87	7886147.11	0.0090	0.0048 *
Earth	16880-06-09 21:36 G	7886514.20	7886514.40	7886514.65	0.0090	0.0044
Moon	16880-06-10 00:28 G	7886514.32	7886514.52	7886514.77	0.0090	0.0047 *
Moon	16881-06-12 08:38 G	7886881.64	7886881.86	7886882.10	0.0090	0.0037
Earth	16881-06-12 10:48 G	7886881.73	7886881.95	7886882.20	0.0090	0.0039 *
Earth	16882-06-14 23:45 G	7887249.26	7887249.49	7887249.73	0.0090	0.0035
Moon	16882-06-15 00:14 G	7887249.28	7887249.51	7887249.77	0.0090	0.0039 *
Earth	16883-06-17 12:43 G	7887616.79	7887617.03	7887617.27	0.0090	0.0031

Moon	16883-06-17 12:43 G	7887616.81	7887617.03	7887617.28	0.0090	0.0029 *
Moon	16884-06-18 23:45 G	7887984.26	7887984.49	7887984.76	0.0090	0.0030
Earth	16884-06-19 01:12 G	7887984.32	7887984.55	7887984.81	0.0090	0.0027 *
Earth	16885-06-21 13:55 G	7888351.84	7888352.08	7888352.34	0.0090	0.0023
Moon	16885-06-21 16:48 G	7888351.96	7888352.20	7888352.45	0.0090	0.0020 *
Moon	16886-06-23 23:31 G	7888719.24	7888719.48	7888719.75	0.0090	0.0022
Earth	16886-06-24 02:52 G	7888719.38	7888719.62	7888719.88	0.0090	0.0018 *
Earth	16887-06-26 15:36 G	7889086.90	7889087.15	7889087.41	0.0090	0.0014
Moon	16887-06-26 19:12 G	7889087.05	7889087.30	7889087.56	0.0090	0.0012 *
Moon	16888-06-28 00:57 G	7889454.29	7889454.54	7889454.80	0.0090	0.0013
Earth	16888-06-28 04:19 G	7889454.43	7889454.68	7889454.94	0.0090	0.0010 *
Earth	16889-06-30 17:02 G	7889821.96	7889822.21	7889822.47	0.0089	0.0006
Moon	16889-06-30 20:09 G	7889822.08	7889822.34	7889822.60	0.0089	0.0003 *
Moon	16890-07-03 03:21 G	7890189.39	7890189.64	7890189.89	0.0089	0.0003
Earth	16890-07-03 05:45 G	7890189.48	7890189.74	7890190.00	0.0089	0.0001 *
Earth	16891-07-05 18:14 G	7890557.00	7890557.26	7890557.52	0.0089	0.0003
Moon	16891-07-05 18:57 G	7890557.03	7890557.29	7890557.56	0.0089	0.0006 *
Earth	16892-07-07 06:28 G	7890924.52	7890924.77	7890925.03	0.0089	0.0008
Moon	16892-07-07 06:43 G	7890924.53	7890924.78	7890925.03	0.0089	0.0006 *
Moon	16893-07-09 17:31 G	7891291.98	7891292.23	7891292.51	0.0089	0.0014
Earth	16893-07-09 18:57 G	7891292.04	7891292.29	7891292.55	0.0089	0.0012 *
Earth	16894-07-12 06:57 G	7891659.55	7891659.79	7891660.05	0.0089	0.0016
Moon	16894-07-12 09:36 G	7891659.66	7891659.90	7891660.16	0.0089	0.0014 *
Moon	16895-07-14 16:04 G	7892026.92	7892027.17	7892027.43	0.0089	0.0022
Earth	16895-07-14 19:12 G	7892027.06	7892027.30	7892027.56	0.0089	0.0020 *
Earth	16896-07-16 07:12 G	7892394.56	7892394.80	7892395.06	0.0089	0.0025
Moon	16896-07-16 10:48 G	7892394.72	7892394.95	7892395.21	0.0089	0.0024 *
Moon	16897-07-18 16:04 G	7892761.94	7892762.17	7892762.42	0.0089	0.0030
Earth	16897-07-18 19:26 G	7892762.08	7892762.31	7892762.57	0.0089	0.0029 *
Earth	16898-07-21 07:26 G	7893129.58	7893129.81	7893130.06	0.0089	0.0033

Moon	16898-07-21 10:19 G	7893129.70	7893129.93	7893130.19	0.0089	0.0033 *
Moon	16899-07-23 17:02 G	7893497.00	7893497.21	7893497.45	0.0089	0.0038
Earth	16899-07-23 19:40 G	7893497.09	7893497.32	7893497.56	0.0089	0.0037 *
Earth	16900-07-26 07:55 G	7893864.60	7893864.83	7893865.06	0.0089	0.0041
Moon	16900-07-26 08:38 G	7893864.63	7893864.86	7893865.11	0.0089	0.0040 *
Earth	16901-07-28 19:55 G	7894232.11	7894232.33	7894232.56	0.0089	0.0045
Moon	16901-07-28 19:26 G	7894232.12	7894232.31	7894232.55	0.0089	0.0046 *
Moon	16902-07-31 06:28 G	7894599.57	7894599.77	7894600.01	0.0089	0.0048
Earth	16902-07-31 07:40 G	7894599.62	7894599.82	7894600.05	0.0089	0.0049 *
Earth	16903-08-02 19:12 G	7894967.12	7894967.30	7894967.53	0.0089	0.0053
Moon	16903-08-02 21:50 G	7894967.23	7894967.41	7894967.63	0.0089	0.0053 *
Moon	16904-08-04 04:19 G	7895334.49	7895334.68	7895334.90	0.0089	0.0056
Earth	16904-08-04 07:40 G	7895334.62	7895334.82	7895335.02	0.0089	0.0056 *
Earth	16905-08-06 18:57 G	7895702.11	7895702.29	7895702.50	0.0089	0.0059
Moon	16905-08-06 22:19 G	7895702.27	7895702.43	7895702.65	0.0089	0.0059 *
Moon	16906-08-09 03:07 G	7896069.46	7896069.63	7896069.82	0.0089	0.0062
Earth	16906-08-09 06:43 G	7896069.61	7896069.78	7896069.97	0.0089	0.0063 *
Earth	16907-08-11 17:45 G	7896437.09	7896437.24	7896437.44	0.0089	0.0067
Moon	16907-08-11 20:52 G	7896437.22	7896437.37	7896437.57	0.0089	0.0066 *
Moon	16908-08-13 03:07 G	7896804.50	7896804.63	7896804.80	0.0089	0.0070
Earth	16908-08-13 05:31 G	7896804.59	7896804.73	7896804.91	0.0089	0.0069 *
Earth	16909-08-15 17:02 G	7897172.08	7897172.21	7897172.37	0.0089	0.0072
Moon	16909-08-15 17:45 G	7897172.11	7897172.24	7897172.42	0.0089	0.0072 *
Moon	16910-08-18 04:33 G	7897539.57	7897539.69	7897539.82	0.0089	0.0076
Earth	16910-08-18 04:33 G	7897539.57	7897539.69	7897539.84	0.0089	0.0075 *
Moon	16911-08-20 14:24 G	7897906.99	7897907.10	7897907.25	0.0089	0.0077
Earth	16911-08-20 15:50 G	7897907.05	7897907.16	7897907.29	0.0089	0.0078 *
Mars	16912-04-16 06:43 G	7898146.47	7898146.78	7898147.09	0.0089	0.0006
Earth	16912-08-22 03:07 G	7898274.54	7898274.63	7898274.75	0.0089	0.0081
Moon	16912-08-22 06:00 G	7898274.66	7898274.75	7898274.86	0.0089	0.0081 *

Moon	16913-08-24 11:16 G	7898641.91	7898641.97	7898642.10	0.0089	0.0083
Earth	16913-08-24 14:24 G	7898642.04	7898642.10	7898642.21	0.0089	0.0084 *
Mars	16914-03-12 01:26 G	7898841.44	7898841.56	7898841.72	0.0089	0.0079
Earth	16914-08-27 01:40 G	7899009.53	7899009.57	7899009.65	0.0089	0.0086
Moon	16914-08-27 05:02 G	7899009.71	7899009.71	7899009.79	0.0089	0.0088
Moon	16915-08-29 09:50 G	7899376.89	7899376.91	7899376.96	0.0089	0.0088
Earth	16915-08-29 12:57 G	7899377.04	7899377.04	7899377.09	0.0089	0.0089
Venus	16934-10-28 06:14 G	7906376.64	7906376.76	7906376.90	0.0088	0.0070
Venus	16935-06-10 18:43 G	7906602.12	7906602.28	7906602.48	0.0088	0.0051
Venus	16936-01-22 07:55 G	7906827.63	7906827.83	7906828.04	0.0088	0.0030
Venus	16936-09-03 20:52 G	7907053.15	7907053.37	7907053.59	0.0088	0.0011
Venus	16937-04-17 09:36 G	7907278.68	7907278.90	7907279.12	0.0088	0.0009
Venus	16937-11-28 22:19 G	7907504.22	7907504.43	7907504.64	0.0088	0.0029
Venus	16938-07-12 11:02 G	7907729.78	7907729.96	7907730.15	0.0088	0.0048
Venus	16939-02-22 23:31 G	7907955.36	7907955.48	7907955.64	0.0088	0.0068
Venus	16939-10-06 12:28 G	7908181.01	7908181.02	7908181.06	0.0088	0.0087
Mercury	16940-06-13 17:02 G	7908432.17	7908432.21	7908432.28	0.0088	0.0082
Mercury	16940-09-09 19:26 G	7908520.23	7908520.31	7908520.39	0.0088	0.0075
Mercury	16940-12-06 21:07 G	7908608.30	7908608.38	7908608.49	0.0088	0.0067
Mercury	16941-03-04 23:31 G	7908696.37	7908696.48	7908696.59	0.0088	0.0059
Mercury	16941-06-01 01:26 G	7908784.44	7908784.56	7908784.69	0.0088	0.0052
Mercury	16941-08-28 03:36 G	7908872.52	7908872.65	7908872.79	0.0088	0.0044
Mercury	16941-11-24 05:31 G	7908960.60	7908960.73	7908960.88	0.0088	0.0037
Mercury	16942-02-20 07:40 G	7909048.68	7909048.82	7909048.97	0.0088	0.0029
Mercury	16942-05-19 09:50 G	7909136.76	7909136.91	7909137.06	0.0088	0.0021
Mercury	16942-08-15 12:00 G	7909224.84	7909225.00	7909225.16	0.0088	0.0014
Mercury	16942-11-11 14:09 G	7909312.93	7909313.09	7909313.25	0.0088	0.0006
Mercury	16943-02-07 16:19 G	7909401.02	7909401.18	7909401.33	0.0088	0.0003
Mercury	16943-05-06 18:14 G	7909489.11	7909489.26	7909489.42	0.0088	0.0010
Mercury	16943-08-02 20:24 G	7909577.20	7909577.35	7909577.51	0.0088	0.0018

Mercury	16943-10-29 22:33 G	7909665.29	7909665.44	7909665.60	0.0088	0.0026
Mercury	16944-01-26 00:43 G	7909753.39	7909753.53	7909753.68	0.0088	0.0033
Mercury	16944-04-23 02:52 G	7909841.48	7909841.62	7909841.77	0.0088	0.0041
Mercury	16944-07-20 05:02 G	7909929.58	7909929.71	7909929.85	0.0088	0.0049
Mercury	16944-10-16 07:12 G	7910017.69	7910017.80	7910017.93	0.0088	0.0057
Mercury	16945-01-12 09:21 G	7910105.79	7910105.89	7910106.01	0.0088	0.0065
Mercury	16945-04-10 11:31 G	7910193.90	7910193.98	7910194.08	0.0088	0.0073
Mercury	16945-07-07 13:40 G	7910282.02	7910282.07	7910282.14	0.0088	0.0081
Moon	16945-11-02 16:33 G	7910400.19	7910400.19	7910400.24	0.0088	0.0088
Moon	16947-11-07 10:33 G	7911134.89	7911134.94	7911135.07	0.0088	0.0083
Earth	16947-11-07 13:40 G	7911135.04	7911135.07	7911135.14	0.0088	0.0086 *
Earth	16948-11-08 23:31 G	7911502.44	7911502.48	7911502.59	0.0088	0.0084
Moon	16948-11-09 03:36 G	7911502.61	7911502.65	7911502.69	0.0088	0.0086
Moon	16949-11-11 06:14 G	7911869.68	7911869.76	7911869.91	0.0088	0.0078
Earth	16949-11-11 10:04 G	7911869.84	7911869.92	7911870.04	0.0088	0.0081 *
Earth	16950-11-13 20:38 G	7912237.25	7912237.36	7912237.48	0.0088	0.0078
Moon	16950-11-14 00:00 G	7912237.43	7912237.50	7912237.61	0.0088	0.0082 *
Moon	16951-11-16 04:19 G	7912604.56	7912604.68	7912604.84	0.0088	0.0073
Earth	16951-11-16 06:43 G	7912604.68	7912604.78	7912604.93	0.0088	0.0076 *
Earth	16952-11-17 16:48 G	7912972.09	7912972.20	7912972.37	0.0088	0.0073
Moon	16952-11-17 19:26 G	7912972.19	7912972.31	7912972.45	0.0088	0.0076 *
Moon	16953-11-20 02:38 G	7913339.48	7913339.61	7913339.80	0.0088	0.0067
Earth	16953-11-20 03:21 G	7913339.51	7913339.64	7913339.82	0.0088	0.0070 *
Moon	16954-11-22 12:28 G	7913706.89	7913707.02	7913707.21	0.0088	0.0070
Earth	16954-11-22 13:40 G	7913706.93	7913707.07	7913707.26	0.0088	0.0067 *
Earth	16955-11-24 23:45 G	7914074.34	7914074.49	7914074.69	0.0088	0.0064
Moon	16955-11-25 01:55 G	7914074.41	7914074.58	7914074.77	0.0088	0.0060 *
Moon	16956-11-26 07:26 G	7914441.65	7914441.81	7914442.00	0.0088	0.0064
Earth	16956-11-26 10:48 G	7914441.76	7914441.95	7914442.14	0.0088	0.0060 *
Earth	16957-11-28 20:38 G	7914809.18	7914809.36	7914809.57	0.0088	0.0057

Moon	16957-11-29 00:00 G	7914809.32	7914809.50	7914809.72	0.0088	0.0054 *
Moon	16958-12-01 03:21 G	7915176.47	7915176.64	7915176.85	0.0088	0.0058
Earth	16958-12-01 06:57 G	7915176.60	7915176.79	7915177.01	0.0088	0.0054 *
Earth	16959-12-03 17:02 G	7915544.02	7915544.21	7915544.44	0.0088	0.0051
Moon	16959-12-03 20:52 G	7915544.16	7915544.37	7915544.60	0.0088	0.0046 *
Moon	16960-12-05 01:12 G	7915911.37	7915911.55	7915911.78	0.0088	0.0051
Earth	16960-12-05 03:36 G	7915911.45	7915911.65	7915911.88	0.0088	0.0047 *
Earth	16961-12-07 14:09 G	7916278.87	7916279.09	7916279.32	0.0088	0.0043
Moon	16961-12-07 16:04 G	7916278.93	7916279.17	7916279.40	0.0088	0.0039 *
Earth	16962-12-10 00:14 G	7916646.30	7916646.51	7916646.76	0.0088	0.0040
Moon	16962-12-10 00:14 G	7916646.31	7916646.51	7916646.74	0.0088	0.0044 *
Moon	16963-12-12 09:21 G	7917013.66	7917013.89	7917014.16	0.0088	0.0033
Earth	16963-12-12 11:02 G	7917013.73	7917013.96	7917014.20	0.0088	0.0036 *
Earth	16964-12-13 21:36 G	7917381.17	7917381.40	7917381.65	0.0088	0.0032
Moon	16964-12-13 23:31 G	7917381.26	7917381.48	7917381.72	0.0088	0.0036 *
Moon	16965-12-16 05:02 G	7917748.46	7917748.71	7917748.97	0.0088	0.0024
Earth	16965-12-16 07:55 G	7917748.61	7917748.83	7917749.10	0.0088	0.0029 *
Earth	16966-12-18 18:43 G	7918116.05	7918116.28	7918116.54	0.0088	0.0025
Moon	16966-12-18 22:33 G	7918116.20	7918116.44	7918116.68	0.0088	0.0028 *
Moon	16967-12-21 01:55 G	7918483.34	7918483.58	7918483.85	0.0088	0.0017
Earth	16967-12-21 05:31 G	7918483.49	7918483.73	7918483.99	0.0088	0.0021 *
Earth	16968-12-22 16:04 G	7918850.92	7918851.17	7918851.43	0.0088	0.0017
Moon	16968-12-22 19:26 G	7918851.06	7918851.31	7918851.57	0.0088	0.0021 *
Moon	16969-12-25 00:57 G	7919218.29	7919218.54	7919218.79	0.0088	0.0009
Earth	16969-12-25 02:52 G	7919218.37	7919218.62	7919218.88	0.0088	0.0013 *
Earth	16970-12-27 13:40 G	7919585.81	7919586.07	7919586.33	0.0088	0.0009
Moon	16970-12-27 14:52 G	7919585.87	7919586.12	7919586.39	0.0088	0.0013 *
Earth	16971-12-30 00:14 G	7919953.26	7919953.51	7919953.77	0.0088	0.0005
Moon	16971-12-30 00:28 G	7919953.27	7919953.52	7919953.77	0.0088	0.0001 *
Moon	16972-12-31 09:21 G	7920320.63	7920320.89	7920321.16	0.0088	0.0005

Earth	16972-12-31 11:02 G	7920320.71	7920320.96	7920321.22	0.0088	0.0002 *
Earth	16974-01-02 21:50 G	7920688.15	7920688.41	7920688.67	0.0088	0.0003
Moon	16974-01-03 00:00 G	7920688.25	7920688.50	7920688.75	0.0088	0.0007 *
Moon	16975-01-05 05:31 G	7921055.47	7921055.73	7921055.99	0.0088	0.0003
Earth	16975-01-05 08:52 G	7921055.61	7921055.87	7921056.13	0.0088	0.0007 *
Earth	16976-01-07 19:55 G	7921423.07	7921423.33	7921423.58	0.0088	0.0011
Moon	16976-01-07 23:16 G	7921423.22	7921423.47	7921423.73	0.0088	0.0015 *
Moon	16977-01-09 03:21 G	7921790.39	7921790.64	7921790.90	0.0088	0.0011
Earth	16977-01-09 06:57 G	7921790.53	7921790.79	7921791.04	0.0088	0.0015 *
Earth	16978-01-11 18:00 G	7922158.00	7922158.25	7922158.51	0.0088	0.0019
Moon	16978-01-11 20:52 G	7922158.13	7922158.37	7922158.64	0.0088	0.0024 *
Moon	16979-01-14 03:36 G	7922525.41	7922525.65	7922525.90	0.0088	0.0019
Earth	16979-01-14 05:16 G	7922525.48	7922525.72	7922525.98	0.0088	0.0023 *
Earth	16980-01-16 16:19 G	7922892.94	7922893.18	7922893.44	0.0088	0.0027
Moon	16980-01-16 17:31 G	7922892.99	7922893.23	7922893.49	0.0088	0.0031 *
Earth	16981-01-18 03:36 G	7923260.42	7923260.65	7923260.90	0.0088	0.0031
Moon	16981-01-18 04:19 G	7923260.44	7923260.68	7923260.92	0.0088	0.0026 *
Moon	16982-01-20 12:43 G	7923627.81	7923628.03	7923628.30	0.0088	0.0039
Earth	16982-01-20 14:38 G	7923627.89	7923628.11	7923628.37	0.0088	0.0035 *
Earth	16983-01-23 02:24 G	7923995.37	7923995.60	7923995.83	0.0088	0.0038
Moon	16983-01-23 04:19 G	7923995.46	7923995.68	7923995.93	0.0088	0.0034 *
Moon	16984-01-25 09:50 G	7924362.71	7924362.91	7924363.15	0.0088	0.0047
Earth	16984-01-25 13:26 G	7924362.85	7924363.06	7924363.31	0.0088	0.0042 *
Earth	16985-01-27 00:28 G	7924730.33	7924730.52	7924730.77	0.0088	0.0047
Moon	16985-01-27 04:19 G	7924730.46	7924730.68	7924730.92	0.0088	0.0041 *
Moon	16986-01-29 08:38 G	7925097.68	7925097.86	7925098.09	0.0088	0.0054
Earth	16986-01-29 12:28 G	7925097.82	7925098.02	7925098.24	0.0088	0.0049 *
Earth	16987-01-31 23:45 G	7925465.30	7925465.49	7925465.72	0.0088	0.0053
Moon	16987-02-01 02:38 G	7925465.41	7925465.61	7925465.85	0.0088	0.0049 *
Moon	16988-02-03 10:04 G	7925832.74	7925832.92	7925833.10	0.0088	0.0061

Earth	16988-02-03 11:16 G	7925832.79	7925832.97	7925833.19	0.0088	0.0057 *
Earth	16989-02-04 22:48 G	7926200.29	7926200.45	7926200.67	0.0088	0.0060
Moon	16989-02-05 00:14 G	7926200.32	7926200.51	7926200.74	0.0088	0.0056 *
Earth	16990-02-07 10:48 G	7926567.79	7926567.95	7926568.16	0.0088	0.0063
Moon	16990-02-07 12:00 G	7926567.84	7926568.00	7926568.16	0.0088	0.0068 *
Moon	16991-02-09 20:52 G	7926935.20	7926935.37	7926935.58	0.0088	0.0062
Earth	16991-02-09 22:48 G	7926935.30	7926935.45	7926935.64	0.0088	0.0067 *
Earth	16992-02-12 10:33 G	7927302.81	7927302.94	7927303.13	0.0088	0.0070
Moon	16992-02-12 12:43 G	7927302.93	7927303.03	7927303.20	0.0088	0.0075 *
Moon	16993-02-13 19:12 G	7927670.15	7927670.30	7927670.48	0.0088	0.0068
Earth	16993-02-13 22:33 G	7927670.32	7927670.44	7927670.61	0.0088	0.0073 *
Earth	16994-02-16 10:19 G	7928037.83	7928037.93	7928038.10	0.0088	0.0076
Moon	16994-02-16 14:09 G	7928038.00	7928038.09	7928038.22	0.0088	0.0080 *
Mars	16994-03-20 09:36 G	7928069.70	7928069.90	7928070.16	0.0088	0.0062
Moon	16995-02-18 19:12 G	7928405.18	7928405.30	7928405.46	0.0088	0.0074
Earth	16995-02-18 22:19 G	7928405.35	7928405.43	7928405.59	0.0088	0.0079 *
Mars	16996-02-13 06:14 G	7928764.47	7928764.76	7928765.08	0.0088	0.0024
Earth	16996-02-21 10:33 G	7928772.85	7928772.94	7928773.06	0.0088	0.0081
Moon	16996-02-21 13:12 G	7928773.01	7928773.05	7928773.15	0.0088	0.0086 *
Moon	16997-02-22 20:38 G	7929140.28	7929140.36	7929140.50	0.0088	0.0080
Earth	16997-02-22 22:19 G	7929140.38	7929140.43	7929140.55	0.0088	0.0084 *
Earth	16998-02-25 10:48 G	7929507.91	7929507.95	7929508.03	0.0088	0.0086
Moon	16999-02-27 23:31 G	7929875.42	7929875.48	7929875.57	0.0088	0.0084
Earth	16999-02-27 22:48 G	7929875.45	7929875.45	7929875.49	0.0088	0.0088 *

# 18TH MILLENNIUM CE



**This is a list of transits visible from Neptune in the 18th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	17001-03-05 01:55 G		7930610.58	7930610.58	7930610.60	0.0089	0.0088	
Venus	17017-07-27 06:43 G		7936598.72	7936598.78	7936598.86	0.0089	0.0084	
Venus	17018-03-09 19:55 G		7936824.19	7936824.33	7936824.50	0.0089	0.0063	
Venus	17018-10-21 09:07 G		7937049.70	7937049.88	7937050.08	0.0089	0.0043	
Venus	17019-06-03 22:19 G		7937275.23	7937275.43	7937275.66	0.0089	0.0023	
Venus	17020-01-15 12:00 G		7937500.78	7937501.00	7937501.22	0.0089	0.0003	
Venus	17020-08-28 01:12 G		7937726.33	7937726.55	7937726.76	0.0089	0.0018	
Venus	17021-04-10 13:55 G		7937951.90	7937952.08	7937952.30	0.0089	0.0038	
Venus	17021-11-22 03:07 G		7938177.48	7938177.63	7938177.81	0.0089	0.0058	
Venus	17022-07-05 16:04 G		7938403.09	7938403.17	7938403.30	0.0089	0.0079	
Mercury	17023-06-16 13:26 G		7938749.06	7938749.06	7938749.07	0.0089	0.0089	
Mercury	17023-09-12 15:50 G		7938837.09	7938837.16	7938837.22	0.0089	0.0081	
Mercury	17023-12-09 18:00 G		7938925.16	7938925.25	7938925.34	0.0089	0.0072	
Mercury	17024-03-06 20:09 G		7939013.24	7939013.34	7939013.46	0.0089	0.0064	
Mercury	17024-06-02 22:19 G		7939101.32	7939101.43	7939101.56	0.0089	0.0056	
Mercury	17024-08-30 00:43 G		7939189.40	7939189.53	7939189.66	0.0089	0.0048	
Mercury	17024-11-26 02:52 G		7939277.48	7939277.62	7939277.77	0.0089	0.0040	
Mercury	17025-02-22 05:02 G		7939365.57	7939365.71	7939365.86	0.0089	0.0032	
Mercury	17025-05-21 07:12 G		7939453.65	7939453.80	7939453.96	0.0089	0.0024	
Mercury	17025-08-17 09:21 G		7939541.74	7939541.89	7939542.05	0.0089	0.0016	
Mercury	17025-11-13 11:45 G		7939629.83	7939629.99	7939630.14	0.0089	0.0007	
Mercury	17026-02-09 13:55 G		7939717.92	7939718.08	7939718.24	0.0089	0.0001	
Mercury	17026-05-08 16:04 G		7939806.01	7939806.17	7939806.32	0.0089	0.0009	
Mercury	17026-08-04 18:00 G		7939894.10	7939894.25	7939894.41	0.0089	0.0017	

Mercury	17026-10-31 20:09 G	7939982.19	7939982.34	7939982.49	0.0089	0.0025
Mercury	17027-01-27 22:04 G	7940070.29	7940070.42	7940070.58	0.0089	0.0034
Mercury	17027-04-26 00:14 G	7940158.38	7940158.51	7940158.66	0.0089	0.0041
Mercury	17027-07-23 02:38 G	7940246.48	7940246.61	7940246.74	0.0089	0.0049
Mercury	17027-10-19 04:33 G	7940334.58	7940334.69	7940334.81	0.0089	0.0057
Mercury	17028-01-15 06:28 G	7940422.67	7940422.77	7940422.89	0.0089	0.0065
Mercury	17028-04-12 08:24 G	7940510.78	7940510.85	7940510.96	0.0089	0.0073
Mercury	17028-07-09 10:33 G	7940598.89	7940598.94	7940599.02	0.0089	0.0080
Mercury	17028-10-05 12:43 G	7940687.01	7940687.03	7940687.06	0.0089	0.0088
Jupiter	17029-02-06 08:52 G	7940810.59	7940810.87	7940811.26	0.0089	0.0069
Moon	17029-05-07 22:19 G	7940901.40	7940901.43	7940901.50	0.0089	0.0088
Earth	17029-05-08 01:40 G	7940901.55	7940901.57	7940901.60	0.0089	0.0089
Earth	17030-05-10 14:38 G	7941269.06	7941269.11	7941269.19	0.0089	0.0087
Moon	17030-05-10 17:31 G	7941269.20	7941269.23	7941269.32	0.0089	0.0087
Moon	17031-05-12 23:45 G	7941636.43	7941636.49	7941636.60	0.0089	0.0085
Earth	17031-05-13 03:21 G	7941636.59	7941636.64	7941636.76	0.0089	0.0085 *
Earth	17032-05-14 16:48 G	7942004.12	7942004.20	7942004.33	0.0089	0.0082
Moon	17032-05-14 20:09 G	7942004.26	7942004.34	7942004.47	0.0089	0.0082 *
Moon	17033-05-17 03:21 G	7942371.54	7942371.64	7942371.77	0.0089	0.0080
Earth	17033-05-17 06:14 G	7942371.66	7942371.76	7942371.90	0.0089	0.0079 *
Earth	17034-05-19 19:26 G	7942739.18	7942739.31	7942739.45	0.0089	0.0076
Moon	17034-05-19 21:36 G	7942739.27	7942739.40	7942739.56	0.0089	0.0075 *
Moon	17035-05-22 07:40 G	7943106.70	7943106.82	7943106.98	0.0089	0.0074
Earth	17035-05-22 08:38 G	7943106.72	7943106.86	7943107.01	0.0089	0.0073 *
Moon	17036-05-23 21:21 G	7943474.24	7943474.39	7943474.58	0.0090	0.0069
Earth	17036-05-23 21:36 G	7943474.25	7943474.40	7943474.57	0.0090	0.0070 *
Earth	17037-05-26 10:33 G	7943841.78	7943841.94	7943842.13	0.0090	0.0067
Moon	17037-05-26 11:31 G	7943841.85	7943841.98	7943842.17	0.0090	0.0069 *
Moon	17038-05-28 21:07 G	7944209.20	7944209.38	7944209.58	0.0090	0.0063
Earth	17038-05-28 23:31 G	7944209.32	7944209.48	7944209.68	0.0090	0.0064 *

Earth	17039-05-31 12:57 G	7944576.85	7944577.04	7944577.23	0.0090	0.0060
Moon	17039-05-31 15:50 G	7944576.98	7944577.16	7944577.34	0.0090	0.0062 *
Moon	17040-06-01 22:19 G	7944944.23	7944944.43	7944944.64	0.0090	0.0055
Earth	17040-06-02 01:55 G	7944944.39	7944944.58	7944944.79	0.0090	0.0057 *
Earth	17041-06-04 15:21 G	7945311.93	7945312.14	7945312.35	0.0090	0.0053
Moon	17041-06-04 18:28 G	7945312.08	7945312.27	7945312.49	0.0090	0.0055 *
Moon	17042-06-07 01:12 G	7945679.34	7945679.55	7945679.77	0.0090	0.0047
Earth	17042-06-07 04:04 G	7945679.47	7945679.67	7945679.90	0.0090	0.0050 *
Earth	17043-06-09 17:16 G	7946047.01	7946047.22	7946047.45	0.0090	0.0046
Moon	17043-06-09 19:55 G	7946047.11	7946047.33	7946047.56	0.0090	0.0048 *
Moon	17044-06-11 05:31 G	7946414.51	7946414.73	7946414.96	0.0090	0.0040
Earth	17044-06-11 06:28 G	7946414.55	7946414.77	7946415.01	0.0090	0.0042 *
Earth	17045-06-13 19:26 G	7946782.08	7946782.31	7946782.55	0.0090	0.0038
Moon	17045-06-13 19:40 G	7946782.10	7946782.32	7946782.57	0.0090	0.0041 *
Earth	17046-06-16 07:55 G	7947149.61	7947149.83	7947150.09	0.0090	0.0035
Moon	17046-06-16 09:21 G	7947149.66	7947149.89	7947150.13	0.0090	0.0032 *
Moon	17047-06-18 18:14 G	7947517.03	7947517.26	7947517.53	0.0090	0.0033
Earth	17047-06-18 20:52 G	7947517.14	7947517.37	7947517.63	0.0090	0.0030 *
Earth	17048-06-20 09:36 G	7947884.67	7947884.90	7947885.16	0.0090	0.0027
Moon	17048-06-20 12:43 G	7947884.78	7947885.03	7947885.27	0.0090	0.0023 *
Moon	17049-06-22 18:43 G	7948252.05	7948252.28	7948252.55	0.0090	0.0026
Earth	17049-06-22 22:33 G	7948252.20	7948252.44	7948252.70	0.0090	0.0022 *
Earth	17050-06-25 11:02 G	7948619.72	7948619.96	7948620.23	0.0090	0.0019
Moon	17050-06-25 14:52 G	7948619.86	7948620.12	7948620.37	0.0090	0.0015 *
Moon	17051-06-27 20:38 G	7948987.12	7948987.36	7948987.62	0.0090	0.0018
Earth	17051-06-28 00:14 G	7948987.25	7948987.51	7948987.76	0.0090	0.0014 *
Earth	17052-06-29 12:57 G	7949354.78	7949355.04	7949355.29	0.0089	0.0010
Moon	17052-06-29 15:21 G	7949354.88	7949355.14	7949355.41	0.0089	0.0007 *
Moon	17053-07-02 00:00 G	7949722.26	7949722.50	7949722.76	0.0089	0.0010
Earth	17053-07-02 01:40 G	7949722.31	7949722.57	7949722.83	0.0089	0.0006 *

Earth	17054-07-04 14:24 G	7950089.84	7950090.10	7950090.36	0.0089	0.0002
Moon	17054-07-04 15:07 G	7950089.86	7950090.13	7950090.40	0.0089	0.0002 *
Earth	17055-07-07 02:52 G	7950457.37	7950457.62	7950457.88	0.0089	0.0003
Moon	17055-07-07 03:50 G	7950457.41	7950457.66	7950457.91	0.0089	0.0002 *
Moon	17056-07-08 13:26 G	7950824.80	7950825.06	7950825.33	0.0089	0.0010
Earth	17056-07-08 15:36 G	7950824.90	7950825.15	7950825.41	0.0089	0.0007 *
Earth	17057-07-11 04:04 G	7951192.42	7951192.67	7951192.93	0.0089	0.0011
Moon	17057-07-11 06:43 G	7951192.53	7951192.78	7951193.03	0.0089	0.0006 *
Moon	17058-07-13 12:43 G	7951559.78	7951560.03	7951560.29	0.0089	0.0019
Earth	17058-07-13 16:19 G	7951559.93	7951560.18	7951560.44	0.0089	0.0015 *
Earth	17059-07-16 04:33 G	7951927.44	7951927.69	7951927.95	0.0089	0.0019
Moon	17059-07-16 08:09 G	7951927.59	7951927.84	7951928.09	0.0089	0.0015 *
Moon	17060-07-17 13:12 G	7952294.83	7952295.05	7952295.31	0.0089	0.0028
Earth	17060-07-17 16:48 G	7952294.96	7952295.20	7952295.46	0.0089	0.0023 *
Earth	17061-07-20 05:02 G	7952662.47	7952662.71	7952662.96	0.0089	0.0027
Moon	17061-07-20 07:26 G	7952662.57	7952662.81	7952663.08	0.0089	0.0023 *
Moon	17062-07-22 15:21 G	7953029.93	7953030.14	7953030.38	0.0089	0.0035
Earth	17062-07-22 17:02 G	7953029.98	7953030.21	7953030.46	0.0089	0.0030 *
Earth	17063-07-25 05:02 G	7953397.48	7953397.71	7953397.96	0.0089	0.0034
Moon	17063-07-25 06:14 G	7953397.51	7953397.76	7953398.01	0.0089	0.0030 *
Earth	17064-07-26 16:48 G	7953764.99	7953765.20	7953765.46	0.0089	0.0039
Moon	17064-07-26 18:00 G	7953765.04	7953765.25	7953765.48	0.0089	0.0042 *
Moon	17065-07-29 03:21 G	7954132.41	7954132.64	7954132.88	0.0089	0.0038
Earth	17065-07-29 05:16 G	7954132.50	7954132.72	7954132.95	0.0089	0.0042 *
Earth	17066-07-31 17:02 G	7954500.00	7954500.21	7954500.44	0.0089	0.0045
Moon	17066-07-31 19:26 G	7954500.12	7954500.31	7954500.53	0.0089	0.0050 *
Moon	17067-08-03 01:26 G	7954867.35	7954867.56	7954867.80	0.0089	0.0045
Earth	17067-08-03 04:48 G	7954867.51	7954867.70	7954867.94	0.0089	0.0050 *
Earth	17068-08-04 17:02 G	7955235.01	7955235.21	7955235.43	0.0089	0.0052
Moon	17068-08-04 20:38 G	7955235.17	7955235.36	7955235.56	0.0089	0.0057 *

Moon	17069-08-07 01:12 G	7955602.36	7955602.55	7955602.78	0.0089	0.0051
Earth	17069-08-07 04:33 G	7955602.52	7955602.69	7955602.91	0.0089	0.0056 *
Earth	17070-08-09 16:19 G	7955970.01	7955970.18	7955970.39	0.0089	0.0059
Moon	17070-08-09 19:12 G	7955970.13	7955970.30	7955970.49	0.0089	0.0064 *
Moon	17071-08-12 02:24 G	7956337.43	7956337.60	7956337.81	0.0089	0.0058
Earth	17071-08-12 04:04 G	7956337.50	7956337.67	7956337.87	0.0089	0.0062 *
Earth	17072-08-13 15:21 G	7956704.99	7956705.14	7956705.34	0.0089	0.0066
Moon	17072-08-13 16:33 G	7956705.04	7956705.19	7956705.36	0.0089	0.0070 *
Earth	17073-08-16 02:52 G	7957072.48	7957072.62	7957072.81	0.0089	0.0069
Moon	17073-08-16 03:50 G	7957072.51	7957072.66	7957072.85	0.0089	0.0064 *
Moon	17074-08-18 12:14 G	7957439.89	7957440.01	7957440.17	0.0089	0.0075
Earth	17074-08-18 14:09 G	7957439.96	7957440.09	7957440.27	0.0089	0.0071 *
Earth	17075-08-21 01:26 G	7957807.45	7957807.56	7957807.73	0.0089	0.0074
Moon	17075-08-21 04:19 G	7957807.54	7957807.68	7957807.85	0.0089	0.0069 *
Mars	17075-12-01 00:14 G	7957909.26	7957909.51	7957909.81	0.0089	0.0041
Moon	17076-08-22 09:36 G	7958174.81	7958174.90	7958175.02	0.0089	0.0081
Earth	17076-08-22 13:26 G	7958174.94	7958175.06	7958175.19	0.0089	0.0076 *
Earth	17077-08-25 00:14 G	7958542.41	7958542.51	7958542.64	0.0089	0.0079
Moon	17077-08-25 03:21 G	7958542.53	7958542.64	7958542.81	0.0089	0.0075 *
Mars	17077-10-25 16:48 G	7958603.94	7958604.20	7958604.48	0.0089	0.0044
Moon	17078-08-27 08:09 G	7958909.80	7958909.84	7958909.92	0.0089	0.0086
Earth	17078-08-27 11:45 G	7958909.90	7958909.99	7958910.10	0.0089	0.0081 *
Earth	17079-08-29 22:48 G	7959277.39	7959277.45	7959277.55	0.0089	0.0084
Moon	17079-08-30 01:12 G	7959277.46	7959277.55	7959277.70	0.0089	0.0079 *
Earth	17080-08-31 10:04 G	7959644.88	7959644.92	7959645.01	0.0089	0.0086
Moon	17081-09-02 22:19 G	7960012.35	7960012.43	7960012.53	0.0089	0.0083
Earth	17081-09-02 21:21 G	7960012.37	7960012.39	7960012.44	0.0089	0.0088 *
Moon	17083-09-07 17:31 G	7960747.19	7960747.23	7960747.29	0.0089	0.0087
Venus	17099-01-30 17:16 G	7966371.14	7966371.22	7966371.35	0.0088	0.0077
Venus	17099-09-13 06:14 G	7966596.61	7966596.76	7966596.94	0.0088	0.0058

Venus	17100-04-26 18:57 G	7966822.10	7966822.29	7966822.50	0.0088	0.0038
Venus	17100-12-08 07:55 G	7967047.62	7967047.83	7967048.05	0.0088	0.0018
Venus	17101-07-21 20:52 G	7967273.15	7967273.37	7967273.59	0.0088	0.0001
Venus	17102-03-04 09:21 G	7967498.69	7967498.89	7967499.11	0.0088	0.0021
Venus	17102-10-15 22:04 G	7967724.24	7967724.42	7967724.63	0.0088	0.0041
Venus	17103-05-29 10:33 G	7967949.80	7967949.94	7967950.12	0.0088	0.0060
Venus	17104-01-09 23:31 G	7968175.40	7968175.48	7968175.59	0.0088	0.0080
Mercury	17104-12-14 14:24 G	7968515.09	7968515.10	7968515.15	0.0088	0.0086
Mercury	17105-03-12 16:48 G	7968603.13	7968603.20	7968603.27	0.0088	0.0078
Mercury	17105-06-08 18:28 G	7968691.20	7968691.27	7968691.38	0.0088	0.0071
Mercury	17105-09-04 20:52 G	7968779.27	7968779.37	7968779.48	0.0088	0.0063
Mercury	17105-12-01 22:33 G	7968867.34	7968867.44	7968867.58	0.0088	0.0057
Mercury	17106-02-28 00:57 G	7968955.41	7968955.54	7968955.67	0.0088	0.0048
Mercury	17106-05-27 03:07 G	7969043.49	7969043.63	7969043.77	0.0088	0.0041
Mercury	17106-08-23 05:02 G	7969131.57	7969131.71	7969131.86	0.0088	0.0033
Mercury	17106-11-19 07:12 G	7969219.65	7969219.80	7969219.95	0.0088	0.0025
Mercury	17107-02-15 09:21 G	7969307.73	7969307.89	7969308.04	0.0088	0.0018
Mercury	17107-05-14 11:16 G	7969395.82	7969395.97	7969396.13	0.0088	0.0010
Mercury	17107-08-10 13:26 G	7969483.90	7969484.06	7969484.22	0.0088	0.0002
Moon	17107-10-31 07:12 G	7969565.80	7969565.80	7969565.87	0.0088	0.0088
Mercury	17107-11-06 15:36 G	7969571.99	7969572.15	7969572.31	0.0088	0.0006
Mercury	17108-02-02 17:31 G	7969660.08	7969660.23	7969660.40	0.0088	0.0015
Mercury	17108-04-30 19:55 G	7969748.17	7969748.33	7969748.48	0.0088	0.0021
Mercury	17108-07-27 22:04 G	7969836.27	7969836.42	7969836.57	0.0088	0.0029
Mercury	17108-10-24 00:00 G	7969924.36	7969924.50	7969924.65	0.0088	0.0037
Earth	17108-11-01 18:43 G	7969933.28	7969933.28	7969933.29	0.0088	0.0088
Mercury	17109-01-20 02:09 G	7970012.46	7970012.59	7970012.74	0.0088	0.0045
Mercury	17109-04-18 04:19 G	7970100.56	7970100.68	7970100.82	0.0088	0.0053
Mercury	17109-07-15 06:28 G	7970188.67	7970188.77	7970188.90	0.0088	0.0061
Mercury	17109-10-11 08:38 G	7970276.77	7970276.86	7970276.97	0.0088	0.0069

Earth	17109-11-04 04:33 G	7970300.66	7970300.69	7970300.76	0.0088	0.0086
Moon	17109-11-04 06:57 G	7970300.71	7970300.79	7970300.88	0.0088	0.0082 *
Mercury	17110-01-07 10:48 G	7970364.89	7970364.95	7970365.04	0.0088	0.0077
Mercury	17110-04-05 12:57 G	7970453.02	7970453.04	7970453.10	0.0088	0.0085
Moon	17110-11-06 12:14 G	7970667.99	7970668.01	7970668.04	0.0088	0.0088
Earth	17110-11-06 14:38 G	7970668.06	7970668.11	7970668.21	0.0088	0.0084
Earth	17111-11-09 00:43 G	7971035.47	7971035.53	7971035.65	0.0088	0.0082
Moon	17111-11-09 04:04 G	7971035.59	7971035.67	7971035.81	0.0088	0.0079 *
Moon	17112-11-10 07:12 G	7971402.76	7971402.80	7971402.91	0.0088	0.0084
Earth	17112-11-10 10:48 G	7971402.87	7971402.95	7971403.09	0.0088	0.0080 *
Earth	17113-11-12 21:36 G	7971770.28	7971770.40	7971770.52	0.0088	0.0077
Moon	17113-11-13 00:43 G	7971770.40	7971770.53	7971770.67	0.0088	0.0074 *
Moon	17114-11-15 05:02 G	7972137.61	7972137.71	7972137.83	0.0088	0.0078
Earth	17114-11-15 07:26 G	7972137.70	7972137.81	7972137.96	0.0088	0.0075 *
Earth	17115-11-17 17:45 G	7972505.11	7972505.24	7972505.40	0.0088	0.0072
Moon	17115-11-17 18:28 G	7972505.13	7972505.27	7972505.46	0.0088	0.0069 *
Earth	17116-11-19 03:36 G	7972872.53	7972872.65	7972872.84	0.0088	0.0070
Moon	17116-11-19 03:36 G	7972872.54	7972872.65	7972872.81	0.0088	0.0073 *
Moon	17117-11-21 13:26 G	7973239.88	7973240.06	7973240.25	0.0088	0.0063
Earth	17117-11-21 14:09 G	7973239.95	7973240.09	7973240.28	0.0088	0.0067 *
Earth	17118-11-24 00:28 G	7973607.37	7973607.52	7973607.72	0.0088	0.0064
Moon	17118-11-24 02:52 G	7973607.49	7973607.62	7973607.81	0.0088	0.0068 *
Moon	17119-11-26 07:55 G	7973974.66	7973974.83	7973975.05	0.0088	0.0058
Earth	17119-11-26 11:02 G	7973974.80	7973974.96	7973975.16	0.0088	0.0061 *
Earth	17120-11-27 21:07 G	7974342.21	7974342.38	7974342.60	0.0088	0.0058
Moon	17120-11-28 00:57 G	7974342.37	7974342.54	7974342.74	0.0088	0.0061 *
Moon	17121-11-30 04:33 G	7974709.49	7974709.69	7974709.90	0.0088	0.0051
Earth	17121-11-30 07:40 G	7974709.64	7974709.82	7974710.04	0.0088	0.0055 *
Earth	17122-12-02 17:45 G	7975077.06	7975077.24	7975077.48	0.0088	0.0052
Moon	17122-12-02 21:07 G	7975077.19	7975077.38	7975077.60	0.0088	0.0054 *

Moon	17123-12-05 01:55 G	7975444.39	7975444.58	7975444.82	0.0088	0.0046
Earth	17123-12-05 04:33 G	7975444.48	7975444.69	7975444.91	0.0088	0.0048 *
Earth	17124-12-06 14:38 G	7975811.91	7975812.11	7975812.35	0.0088	0.0045
Moon	17124-12-06 15:21 G	7975811.93	7975812.14	7975812.38	0.0088	0.0048 *
Earth	17125-12-09 00:57 G	7976179.33	7976179.54	7976179.79	0.0088	0.0042
Moon	17125-12-09 01:26 G	7976179.35	7976179.56	7976179.79	0.0088	0.0039 *
Moon	17126-12-11 10:04 G	7976546.70	7976546.92	7976547.17	0.0088	0.0041
Earth	17126-12-11 11:31 G	7976546.76	7976546.98	7976547.23	0.0088	0.0038 *
Earth	17127-12-13 21:50 G	7976914.19	7976914.41	7976914.67	0.0088	0.0035
Moon	17127-12-14 00:43 G	7976914.31	7976914.53	7976914.78	0.0088	0.0032 *
Moon	17128-12-15 05:16 G	7977281.49	7977281.72	7977281.98	0.0088	0.0034
Earth	17128-12-15 08:38 G	7977281.63	7977281.86	7977282.11	0.0088	0.0031 *
Earth	17129-12-17 19:26 G	7977649.06	7977649.31	7977649.55	0.0088	0.0027
Moon	17129-12-17 22:48 G	7977649.22	7977649.45	7977649.71	0.0088	0.0025 *
Moon	17130-12-20 02:38 G	7978016.38	7978016.61	7978016.87	0.0088	0.0027
Earth	17130-12-20 06:00 G	7978016.51	7978016.75	7978017.01	0.0088	0.0024 *
Earth	17131-12-22 16:33 G	7978383.95	7978384.19	7978384.45	0.0088	0.0020
Moon	17131-12-22 19:26 G	7978384.06	7978384.31	7978384.58	0.0088	0.0018 *
Moon	17132-12-24 01:26 G	7978751.32	7978751.56	7978751.81	0.0088	0.0019
Earth	17132-12-24 03:36 G	7978751.39	7978751.65	7978751.90	0.0088	0.0016 *
Earth	17133-12-26 13:55 G	7979118.84	7979119.08	7979119.35	0.0088	0.0013
Moon	17133-12-26 14:24 G	7979118.84	7979119.10	7979119.37	0.0088	0.0010 *
Earth	17134-12-29 00:43 G	7979486.28	7979486.53	7979486.80	0.0088	0.0009
Moon	17134-12-29 01:12 G	7979486.31	7979486.55	7979486.81	0.0088	0.0011 *
Moon	17135-12-31 09:50 G	7979853.64	7979853.91	7979854.18	0.0088	0.0003
Earth	17135-12-31 11:45 G	7979853.73	7979853.99	7979854.25	0.0088	0.0005 *
Earth	17137-01-01 22:19 G	7980221.17	7980221.43	7980221.69	0.0088	0.0001
Moon	17137-01-02 01:26 G	7980221.30	7980221.56	7980221.81	0.0088	0.0004 *
Moon	17138-01-04 05:45 G	7980588.49	7980588.74	7980589.01	0.0088	0.0005
Earth	17138-01-04 09:07 G	7980588.63	7980588.88	7980589.14	0.0088	0.0003 *



Earth	17139-01-06 19:55 G	7980956.08	7980956.33	7980956.59	0.0088	0.0006
Moon	17139-01-06 23:45 G	7980956.23	7980956.49	7980956.75	0.0088	0.0005 *
Moon	17140-01-09 03:36 G	7981323.40	7981323.65	7981323.91	0.0088	0.0013
Earth	17140-01-09 06:43 G	7981323.53	7981323.78	7981324.04	0.0088	0.0010 *
Earth	17141-01-10 17:31 G	7981690.98	7981691.23	7981691.49	0.0088	0.0014
Moon	17141-01-10 20:09 G	7981691.09	7981691.34	7981691.62	0.0088	0.0013 *
Moon	17142-01-13 03:07 G	7982058.39	7982058.63	7982058.88	0.0088	0.0019
Earth	17142-01-13 04:33 G	7982058.45	7982058.69	7982058.96	0.0088	0.0018 *
Moon	17143-01-15 15:50 G	7982425.90	7982426.16	7982426.43	0.0088	0.0019
Earth	17143-01-15 15:50 G	7982425.91	7982426.16	7982426.42	0.0088	0.0021 *
Earth	17144-01-18 02:52 G	7982793.38	7982793.62	7982793.88	0.0088	0.0025
Moon	17144-01-18 03:50 G	7982793.42	7982793.66	7982793.90	0.0088	0.0026 *
Moon	17145-01-19 12:00 G	7983160.76	7983161.00	7983161.27	0.0088	0.0027
Earth	17145-01-19 14:09 G	7983160.86	7983161.09	7983161.35	0.0088	0.0029 *
Earth	17146-01-22 01:26 G	7983528.33	7983528.56	7983528.81	0.0088	0.0032
Moon	17146-01-22 04:33 G	7983528.47	7983528.69	7983528.94	0.0088	0.0034 *
Moon	17147-01-24 09:21 G	7983895.67	7983895.89	7983896.15	0.0088	0.0035
Earth	17147-01-24 12:43 G	7983895.81	7983896.03	7983896.28	0.0088	0.0036 *
Earth	17148-01-27 00:00 G	7984263.28	7984263.50	7984263.74	0.0088	0.0039
Moon	17148-01-27 03:50 G	7984263.44	7984263.66	7984263.90	0.0088	0.0040 *
Moon	17149-01-28 08:24 G	7984630.64	7984630.85	7984631.09	0.0088	0.0042
Earth	17149-01-28 11:16 G	7984630.76	7984630.97	7984631.22	0.0088	0.0043 *
Earth	17150-01-30 22:48 G	7984998.24	7984998.45	7984998.68	0.0088	0.0046
Moon	17150-01-31 01:40 G	7984998.35	7984998.57	7984998.80	0.0088	0.0046 *
Moon	17151-02-02 08:38 G	7985365.67	7985365.86	7985366.08	0.0088	0.0049
Earth	17151-02-02 10:33 G	7985365.72	7985365.94	7985366.15	0.0088	0.0050 *
Moon	17152-02-04 21:21 G	7985733.20	7985733.39	7985733.63	0.0088	0.0054
Earth	17152-02-04 21:36 G	7985733.21	7985733.40	7985733.62	0.0088	0.0053 *
Earth	17153-02-06 09:07 G	7986100.70	7986100.88	7986101.10	0.0088	0.0057
Moon	17153-02-06 09:50 G	7986100.74	7986100.91	7986101.12	0.0088	0.0056 *

Moon	17154-02-08 18:28 G	7986468.10	7986468.27	7986468.49	0.0088	0.0060
Earth	17154-02-08 20:52 G	7986468.20	7986468.37	7986468.58	0.0088	0.0060 *
Earth	17155-02-11 08:38 G	7986835.69	7986835.86	7986836.06	0.0088	0.0063
Moon	17155-02-11 12:00 G	7986835.83	7986836.00	7986836.19	0.0088	0.0062 *
Moon	17156-02-13 17:02 G	7987203.05	7987203.21	7987203.40	0.0088	0.0066
Earth	17156-02-13 20:24 G	7987203.20	7987203.35	7987203.54	0.0088	0.0066 *
Earth	17157-02-15 08:24 G	7987570.70	7987570.85	7987571.03	0.0088	0.0068
Moon	17157-02-15 12:14 G	7987570.86	7987571.01	7987571.19	0.0088	0.0068 *
Moon	17158-02-17 17:31 G	7987938.10	7987938.23	7987938.40	0.0088	0.0072
Earth	17158-02-17 20:24 G	7987938.22	7987938.35	7987938.53	0.0088	0.0071 *
Earth	17159-02-20 08:38 G	7988305.73	7988305.86	7988306.01	0.0088	0.0074
Moon	17159-02-20 11:16 G	7988305.84	7988305.97	7988306.12	0.0088	0.0075 *
Mars	17159-09-30 00:00 G	7988527.19	7988527.50	7988527.82	0.0088	0.0010
Moon	17160-02-22 18:57 G	7988673.19	7988673.29	7988673.44	0.0088	0.0076
Earth	17160-02-22 20:24 G	7988673.25	7988673.35	7988673.50	0.0088	0.0077 *
Earth	17161-02-24 08:52 G	7989040.76	7989040.87	7989040.99	0.0088	0.0079
Moon	17161-02-24 08:38 G	7989040.76	7989040.86	7989041.00	0.0088	0.0079 *
Mars	17161-08-24 18:57 G	7989222.17	7989222.29	7989222.50	0.0088	0.0076
Earth	17162-02-26 20:24 G	7989408.28	7989408.35	7989408.49	0.0088	0.0082
Moon	17162-02-26 21:21 G	7989408.31	7989408.39	7989408.52	0.0088	0.0081 *
Moon	17163-03-01 06:43 G	7989775.71	7989775.78	7989775.88	0.0088	0.0084
Earth	17163-03-01 08:38 G	7989775.81	7989775.86	7989775.98	0.0088	0.0084 *
Earth	17164-03-02 20:52 G	7990143.33	7990143.37	7990143.46	0.0088	0.0086
Moon	17164-03-02 23:45 G	7990143.46	7990143.49	7990143.59	0.0088	0.0086 *
Earth	17165-03-05 09:07 G	7990510.87	7990510.88	7990510.95	0.0089	0.0088
Moon	17166-03-08 01:26 G	7990878.55	7990878.56	7990878.61	0.0089	0.0088
Venus	17182-06-12 06:57 G	7996818.67	7996818.79	7996818.93	0.0089	0.0071
Venus	17183-01-23 20:24 G	7997044.18	7997044.35	7997044.54	0.0089	0.0051
Venus	17183-09-06 09:36 G	7997269.71	7997269.90	7997270.12	0.0089	0.0031
Venus	17184-04-18 23:02 G	7997495.24	7997495.46	7997495.68	0.0089	0.0011

Venus	17184-11-30 12:14 G	7997720.79	7997721.01	7997721.23	0.0089	0.0010
Venus	17185-07-14 01:12 G	7997946.35	7997946.55	7997946.77	0.0089	0.0030
Venus	17186-02-24 14:38 G	7998171.94	7998172.11	7998172.30	0.0089	0.0050
Venus	17186-10-08 03:50 G	7998397.53	7998397.66	7998397.80	0.0089	0.0071
Mercury	17188-03-13 12:43 G	7998920.00	7998920.03	7998920.09	0.0089	0.0085
Mercury	17188-06-09 15:07 G	7999008.06	7999008.13	7999008.22	0.0089	0.0077
Mercury	17188-09-05 17:16 G	7999096.13	7999096.22	7999096.34	0.0089	0.0069
Mercury	17188-12-02 19:26 G	7999184.21	7999184.31	7999184.44	0.0089	0.0061
Mercury	17189-02-28 22:04 G	7999272.29	7999272.42	7999272.55	0.0089	0.0052
Mercury	17189-05-28 00:14 G	7999360.37	7999360.51	7999360.65	0.0089	0.0044
Mercury	17189-08-24 02:24 G	7999448.46	7999448.60	7999448.75	0.0089	0.0035
Mercury	17189-11-20 04:33 G	7999536.55	7999536.69	7999536.85	0.0089	0.0027
Mercury	17190-02-16 06:43 G	7999624.63	7999624.78	7999624.94	0.0089	0.0020
Moon	17190-05-01 16:19 G	7999699.14	7999699.18	7999699.28	0.0089	0.0087
Mercury	17190-05-15 09:07 G	7999712.72	7999712.88	7999713.04	0.0089	0.0011
Mercury	17190-08-11 11:16 G	7999800.81	7999800.97	7999801.13	0.0089	0.0003
Mercury	17190-11-07 13:26 G	7999888.90	7999889.06	7999889.22	0.0089	0.0005
Mercury	17191-02-03 15:36 G	7999976.99	7999977.15	7999977.30	0.0089	0.0013
Mercury	17191-05-02 17:31 G	8000065.09	8000065.23	8000065.39	0.0089	0.0022
Earth	17191-05-04 07:26 G	8000066.79	8000066.81	8000066.85	0.0089	0.0089
Mercury	17191-07-29 19:40 G	8000153.18	8000153.32	8000153.47	0.0089	0.0029
Mercury	17191-10-25 21:50 G	8000241.27	8000241.41	8000241.56	0.0089	0.0037
Mercury	17192-01-21 23:45 G	8000329.37	8000329.49	8000329.64	0.0089	0.0045
Mercury	17192-04-19 01:55 G	8000417.46	8000417.58	8000417.71	0.0089	0.0053
Moon	17192-05-05 17:16 G	8000434.15	8000434.22	8000434.35	0.0089	0.0082
Earth	17192-05-05 20:52 G	8000434.32	8000434.37	8000434.43	0.0089	0.0087 *
Mercury	17192-07-16 04:04 G	8000505.56	8000505.67	8000505.79	0.0089	0.0061
Mercury	17192-10-12 06:14 G	8000593.66	8000593.76	8000593.86	0.0089	0.0068
Mercury	17193-01-08 08:09 G	8000681.77	8000681.84	8000681.93	0.0089	0.0076
Mercury	17193-04-06 10:04 G	8000769.88	8000769.92	8000769.98	0.0089	0.0084

Earth	17193-05-08 09:50 G	8000801.85	8000801.91	8000802.01	0.0089	0.0085
Moon	17193-05-08 13:40 G	8000802.07	8000802.07	8000802.09	0.0089	0.0089
Moon	17194-05-10 19:26 G	8001169.21	8001169.31	8001169.46	0.0089	0.0079
Earth	17194-05-10 23:02 G	8001169.38	8001169.46	8001169.58	0.0089	0.0083 *
Earth	17195-05-13 12:00 G	8001536.92	8001537.00	8001537.15	0.0089	0.0081
Moon	17195-05-13 16:04 G	8001537.10	8001537.17	8001537.26	0.0089	0.0085 *
Moon	17196-05-14 23:31 G	8001904.36	8001904.48	8001904.64	0.0089	0.0074
Earth	17196-05-15 01:55 G	8001904.47	8001904.58	8001904.72	0.0089	0.0078 *
Earth	17197-05-17 15:21 G	8002272.01	8002272.14	8002272.29	0.0089	0.0075
Moon	17197-05-17 17:02 G	8002272.09	8002272.21	8002272.33	0.0089	0.0079 *
Moon	17198-05-20 04:04 G	8002639.51	8002639.67	8002639.84	0.0089	0.0068
Earth	17198-05-20 04:04 G	8002639.55	8002639.67	8002639.85	0.0089	0.0073 *
Moon	17199-05-22 16:19 G	8003007.04	8003007.18	8003007.34	0.0089	0.0074
Earth	17199-05-22 17:16 G	8003007.08	8003007.22	8003007.41	0.0089	0.0070 *
Earth	17200-05-24 06:43 G	8003374.62	8003374.78	8003374.97	0.0089	0.0067
Moon	17200-05-24 08:24 G	8003374.69	8003374.85	8003375.05	0.0089	0.0063 *
Moon	17201-05-26 16:48 G	8003742.05	8003742.20	8003742.39	0.0089	0.0069
Earth	17201-05-26 19:40 G	8003742.16	8003742.32	8003742.52	0.0089	0.0064 *
Earth	17202-05-29 08:38 G	8004109.69	8004109.86	8004110.07	0.0090	0.0061
Moon	17202-05-29 12:28 G	8004109.83	8004110.02	8004110.23	0.0090	0.0056 *
Moon	17203-05-31 18:28 G	8004477.10	8004477.27	8004477.47	0.0090	0.0062
Earth	17203-05-31 21:50 G	8004477.23	8004477.41	8004477.63	0.0090	0.0058 *
Earth	17204-06-02 10:48 G	8004844.77	8004844.95	8004845.18	0.0090	0.0055
Moon	17204-06-02 14:24 G	8004844.91	8004845.10	8004845.34	0.0090	0.0050 *
Moon	17205-06-04 21:21 G	8005212.22	8005212.39	8005212.61	0.0090	0.0056
Earth	17205-06-05 00:00 G	8005212.30	8005212.50	8005212.73	0.0090	0.0051 *
Earth	17206-06-07 12:57 G	8005579.84	8005580.04	8005580.28	0.0090	0.0048
Moon	17206-06-07 14:52 G	8005579.91	8005580.12	8005580.38	0.0090	0.0044 *
Moon	17207-06-10 01:40 G	8005947.36	8005947.57	8005947.79	0.0090	0.0048
Earth	17207-06-10 02:09 G	8005947.38	8005947.59	8005947.83	0.0090	0.0044 *

Moon	17208-06-11 14:38 G	8006314.88	8006315.11	8006315.37	0.0090	0.0036
Earth	17208-06-11 15:50 G	8006314.93	8006315.16	8006315.39	0.0090	0.0040 *
Earth	17209-06-14 04:33 G	8006682.47	8006682.69	8006682.94	0.0090	0.0037
Moon	17209-06-14 06:00 G	8006682.54	8006682.75	8006682.99	0.0090	0.0041 *
Moon	17210-06-16 14:52 G	8007049.88	8007050.12	8007050.38	0.0090	0.0029
Earth	17210-06-16 17:31 G	8007050.00	8007050.23	8007050.48	0.0090	0.0033 *
Earth	17211-06-19 06:43 G	8007417.53	8007417.78	8007418.02	0.0090	0.0029
Moon	17211-06-19 09:50 G	8007417.68	8007417.91	8007418.16	0.0090	0.0033 *
Moon	17212-06-20 15:50 G	8007784.92	8007785.16	8007785.43	0.0090	0.0022
Earth	17212-06-20 19:26 G	8007785.07	8007785.31	8007785.57	0.0090	0.0025 *
Earth	17213-06-23 07:55 G	8008152.59	8008152.83	8008153.09	0.0090	0.0022
Moon	17213-06-23 11:31 G	8008152.75	8008152.98	8008153.25	0.0090	0.0026 *
Moon	17214-06-25 18:14 G	8008520.02	8008520.26	8008520.51	0.0090	0.0014
Earth	17214-06-25 20:52 G	8008520.12	8008520.37	8008520.63	0.0090	0.0018 *
Earth	17215-06-28 09:36 G	8008887.65	8008887.90	8008888.16	0.0090	0.0014
Moon	17215-06-28 11:45 G	8008887.74	8008887.99	8008888.26	0.0090	0.0017 *
Moon	17216-06-29 21:21 G	8009255.14	8009255.39	8009255.64	0.0090	0.0007
Earth	17216-06-29 22:19 G	8009255.18	8009255.43	8009255.69	0.0090	0.0010 *
Moon	17217-07-02 10:19 G	8009622.67	8009622.93	8009623.20	0.0090	0.0010
Earth	17217-07-02 11:02 G	8009622.70	8009622.96	8009623.22	0.0090	0.0006 *
Earth	17218-07-04 23:31 G	8009990.22	8009990.48	8009990.74	0.0089	0.0002
Moon	17218-07-05 00:43 G	8009990.28	8009990.53	8009990.78	0.0089	0.0001 *
Moon	17219-07-07 09:36 G	8010357.64	8010357.90	8010358.17	0.0089	0.0002
Earth	17219-07-07 12:14 G	8010357.75	8010358.01	8010358.27	0.0089	0.0002 *
Earth	17220-07-09 00:43 G	8010725.28	8010725.53	8010725.79	0.0089	0.0006
Moon	17220-07-09 04:04 G	8010725.42	8010725.67	8010725.92	0.0089	0.0009 *
Moon	17221-07-11 09:50 G	8011092.65	8011092.91	8011093.17	0.0089	0.0007
Earth	17221-07-11 13:12 G	8011092.80	8011093.05	8011093.31	0.0089	0.0010 *
Earth	17222-07-14 01:40 G	8011460.32	8011460.57	8011460.83	0.0089	0.0013
Moon	17222-07-14 05:16 G	8011460.47	8011460.72	8011460.98	0.0089	0.0016 *

Moon	17223-07-16 11:16 G	8011827.73	8011827.97	8011828.23	0.0089	0.0015
Earth	17223-07-16 14:09 G	8011827.84	8011828.09	8011828.35	0.0089	0.0017 *
Earth	17224-07-18 02:09 G	8012195.36	8012195.59	8012195.86	0.0089	0.0022
Moon	17224-07-18 04:48 G	8012195.46	8012195.70	8012195.97	0.0089	0.0023 *
Moon	17225-07-20 13:26 G	8012562.83	8012563.06	8012563.31	0.0089	0.0023
Earth	17225-07-20 14:38 G	8012562.87	8012563.11	8012563.36	0.0089	0.0025 *
Moon	17226-07-23 02:24 G	8012930.36	8012930.60	8012930.86	0.0089	0.0031
Earth	17226-07-23 02:38 G	8012930.38	8012930.61	8012930.86	0.0089	0.0029 *
Earth	17227-07-25 14:38 G	8013297.89	8013298.11	8013298.37	0.0089	0.0032
Moon	17227-07-25 15:50 G	8013297.93	8013298.16	8013298.40	0.0089	0.0030 *
Moon	17228-07-27 00:28 G	8013665.29	8013665.52	8013665.77	0.0089	0.0038
Earth	17228-07-27 02:52 G	8013665.40	8013665.62	8013665.87	0.0089	0.0036 *
Earth	17229-07-29 14:38 G	8014032.90	8014033.11	8014033.36	0.0089	0.0039
Moon	17229-07-29 17:45 G	8014033.03	8014033.24	8014033.49	0.0089	0.0037 *
Moon	17230-07-31 23:02 G	8014400.26	8014400.46	8014400.71	0.0089	0.0045
Earth	17230-08-01 02:52 G	8014400.40	8014400.62	8014400.86	0.0089	0.0043 *
Earth	17231-08-03 14:38 G	8014767.91	8014768.11	8014768.35	0.0089	0.0046
Moon	17231-08-03 18:28 G	8014768.06	8014768.27	8014768.51	0.0089	0.0045 *
Moon	17232-08-04 23:45 G	8015135.31	8015135.49	8015135.72	0.0089	0.0052
Earth	17232-08-05 02:38 G	8015135.42	8015135.61	8015135.84	0.0089	0.0050 *
Earth	17233-08-07 14:52 G	8015502.92	8015503.12	8015503.33	0.0089	0.0053
Moon	17233-08-07 17:02 G	8015503.02	8015503.21	8015503.45	0.0089	0.0053 *
Moon	17234-08-10 01:26 G	8015870.39	8015870.56	8015870.77	0.0089	0.0057
Earth	17234-08-10 02:52 G	8015870.42	8015870.62	8015870.82	0.0089	0.0056 *
Moon	17235-08-12 14:09 G	8016237.90	8016238.09	8016238.31	0.0089	0.0057
Earth	17235-08-12 14:38 G	8016237.92	8016238.11	8016238.31	0.0089	0.0059 *
Earth	17236-08-14 02:24 G	8016605.42	8016605.60	8016605.79	0.0089	0.0062
Moon	17236-08-14 03:07 G	8016605.47	8016605.63	8016605.82	0.0089	0.0062 *
Moon	17237-08-16 10:48 G	8016972.79	8016972.95	8016973.16	0.0089	0.0064
Earth	17237-08-16 13:40 G	8016972.91	8016973.07	8016973.26	0.0089	0.0064 *

Earth	17238-08-19 00:57 G	8017340.39	8017340.54	8017340.73	0.0089	0.0067
Moon	17238-08-19 04:04 G	8017340.53	8017340.67	8017340.85	0.0089	0.0069 *
Mars	17239-07-16 22:33 G	8017672.29	8017672.44	8017672.64	0.0089	0.0073
Moon	17239-08-21 09:21 G	8017707.73	8017707.89	8017708.05	0.0089	0.0069
Earth	17239-08-21 12:14 G	8017707.88	8017708.01	8017708.20	0.0089	0.0070 *
Earth	17240-08-22 23:45 G	8018075.36	8018075.49	8018075.66	0.0089	0.0072
Moon	17240-08-23 03:07 G	8018075.51	8018075.63	8018075.81	0.0089	0.0073 *
Mars	17241-06-10 13:12 G	8018366.75	8018367.05	8018367.37	0.0089	0.0011
Moon	17241-08-25 08:24 G	8018442.73	8018442.85	8018443.00	0.0089	0.0074
Earth	17241-08-25 10:48 G	8018442.85	8018442.95	8018443.12	0.0089	0.0075 *
Earth	17242-08-27 22:19 G	8018810.32	8018810.43	8018810.58	0.0089	0.0077
Moon	17242-08-28 00:57 G	8018810.42	8018810.54	8018810.69	0.0089	0.0076 *
Moon	17243-08-30 08:38 G	8019177.77	8019177.86	8019177.99	0.0089	0.0079
Earth	17243-08-30 09:36 G	8019177.81	8019177.90	8019178.04	0.0089	0.0079 *
Moon	17244-08-31 20:38 G	8019545.27	8019545.36	8019545.48	0.0089	0.0081
Earth	17244-08-31 20:52 G	8019545.29	8019545.37	8019545.49	0.0089	0.0081 *
Earth	17245-09-03 07:55 G	8019912.77	8019912.83	8019912.94	0.0089	0.0083
Moon	17245-09-03 08:52 G	8019912.82	8019912.87	8019912.98	0.0089	0.0084 *
Moon	17246-09-05 16:33 G	8020280.14	8020280.19	8020280.29	0.0089	0.0085
Earth	17246-09-05 19:12 G	8020280.25	8020280.30	8020280.40	0.0089	0.0085 *
Earth	17247-09-08 06:14 G	8020647.73	8020647.76	8020647.84	0.0089	0.0087
Moon	17247-09-08 09:21 G	8020647.87	8020647.89	8020647.98	0.0089	0.0087
Moon	17248-09-09 14:09 G	8021015.05	8021015.09	8021015.15	0.0089	0.0087
Earth	17248-09-09 17:31 G	8021015.22	8021015.23	8021015.28	0.0089	0.0088
Venus	17263-05-05 04:48 G	8026365.65	8026365.70	8026365.77	0.0088	0.0085
Venus	17263-12-16 17:16 G	8026591.09	8026591.22	8026591.39	0.0088	0.0065
Venus	17264-07-29 06:28 G	8026816.59	8026816.77	8026816.97	0.0088	0.0045
Venus	17265-03-11 19:12 G	8027042.10	8027042.30	8027042.52	0.0088	0.0026
Venus	17265-10-23 08:09 G	8027267.62	8027267.84	8027268.06	0.0088	0.0006
Venus	17266-06-05 20:52 G	8027493.15	8027493.37	8027493.59	0.0088	0.0013

Venus	17267-01-17 09:21 G	8027718.70	8027718.89	8027719.10	0.0088	0.0033
Venus	17267-08-30 22:19 G	8027944.26	8027944.43	8027944.61	0.0088	0.0052
Venus	17268-04-12 10:48 G	8028169.84	8028169.95	8028170.09	0.0088	0.0072
Moon	17268-10-23 10:48 G	8028363.95	8028363.95	8028363.96	0.0088	0.0088
Mercury	17269-09-10 13:55 G	8028686.04	8028686.08	8028686.15	0.0088	0.0083
Mercury	17269-12-07 16:19 G	8028774.10	8028774.18	8028774.26	0.0088	0.0074
Mercury	17270-03-05 18:14 G	8028862.17	8028862.26	8028862.37	0.0088	0.0067
Mercury	17270-06-01 20:24 G	8028950.24	8028950.35	8028950.47	0.0088	0.0059
Mercury	17270-08-28 22:19 G	8029038.31	8029038.43	8029038.56	0.0088	0.0052
Moon	17270-10-28 09:21 G	8029098.85	8029098.89	8029098.97	0.0088	0.0086
Earth	17270-10-28 09:07 G	8029098.87	8029098.88	8029098.95	0.0088	0.0087 *
Mercury	17270-11-25 00:28 G	8029126.39	8029126.52	8029126.66	0.0088	0.0044
Mercury	17271-02-21 02:24 G	8029214.47	8029214.60	8029214.75	0.0088	0.0037
Mercury	17271-05-20 04:33 G	8029302.55	8029302.69	8029302.84	0.0088	0.0029
Mercury	17271-08-16 06:43 G	8029390.63	8029390.78	8029390.93	0.0088	0.0021
Jupiter	17271-09-23 06:57 G	8029428.50	8029428.79	8029429.18	0.0088	0.0070
Moon	17271-10-30 18:43 G	8029466.24	8029466.28	8029466.33	0.0088	0.0086
Earth	17271-10-30 19:40 G	8029466.28	8029466.32	8029466.40	0.0088	0.0085 *
Mercury	17271-11-12 08:38 G	8029478.71	8029478.86	8029479.02	0.0088	0.0014
Mercury	17272-02-08 10:48 G	8029566.80	8029566.95	8029567.11	0.0088	0.0006
Mercury	17272-05-06 12:57 G	8029654.88	8029655.04	8029655.20	0.0088	0.0002
Mercury	17272-08-02 15:07 G	8029742.97	8029743.13	8029743.29	0.0088	0.0010
Mercury	17272-10-29 17:02 G	8029831.06	8029831.21	8029831.37	0.0088	0.0018
Earth	17272-11-01 06:14 G	8029833.69	8029833.76	8029833.85	0.0088	0.0083
Moon	17272-11-01 08:09 G	8029833.76	8029833.84	8029833.95	0.0088	0.0081 *
Mercury	17273-01-25 19:26 G	8029919.16	8029919.31	8029919.46	0.0088	0.0025
Mercury	17273-04-23 21:21 G	8030007.25	8030007.39	8030007.54	0.0088	0.0033
Mercury	17273-07-20 23:31 G	8030095.35	8030095.48	8030095.63	0.0088	0.0041
Mercury	17273-10-17 01:40 G	8030183.45	8030183.57	8030183.71	0.0088	0.0049
Moon	17273-11-03 13:12 G	8030200.98	8030201.05	8030201.14	0.0088	0.0083



Earth	17273-11-03 16:04 G	8030201.11	8030201.17	8030201.30	0.0088	0.0082	*
Mercury	17274-01-13 03:50 G	8030271.55	8030271.66	8030271.79	0.0088	0.0057	
Mercury	17274-04-11 06:00 G	8030359.65	8030359.75	8030359.87	0.0088	0.0065	
Mercury	17274-07-08 08:09 G	8030447.76	8030447.84	8030447.94	0.0088	0.0073	
Mercury	17274-10-04 10:19 G	8030535.88	8030535.93	8030536.00	0.0088	0.0081	
Earth	17274-11-06 02:24 G	8030568.52	8030568.60	8030568.74	0.0088	0.0080	
Moon	17274-11-06 05:45 G	8030568.66	8030568.74	8030568.89	0.0088	0.0078	*
Moon	17275-11-08 09:36 G	8030935.81	8030935.90	8030936.01	0.0088	0.0080	
Earth	17275-11-08 12:43 G	8030935.94	8030936.03	8030936.17	0.0088	0.0078	*
Earth	17276-11-09 22:48 G	8031303.35	8031303.45	8031303.61	0.0088	0.0076	
Moon	17276-11-10 01:55 G	8031303.46	8031303.58	8031303.75	0.0088	0.0073	*
Moon	17277-11-12 07:12 G	8031670.70	8031670.80	8031670.95	0.0088	0.0076	
Earth	17277-11-12 09:21 G	8031670.77	8031670.89	8031671.05	0.0088	0.0073	*
Earth	17278-11-14 19:26 G	8032038.18	8032038.31	8032038.48	0.0088	0.0071	
Moon	17278-11-14 20:38 G	8032038.21	8032038.36	8032038.54	0.0088	0.0068	*
Earth	17279-11-17 05:16 G	8032405.59	8032405.72	8032405.91	0.0088	0.0069	
Moon	17279-11-17 06:14 G	8032405.63	8032405.76	8032405.92	0.0088	0.0071	*
Moon	17280-11-18 13:55 G	8032772.92	8032773.08	8032773.28	0.0088	0.0064	
Earth	17280-11-18 15:50 G	8032773.01	8032773.16	8032773.34	0.0088	0.0066	*
Earth	17281-11-21 02:24 G	8033140.43	8033140.60	8033140.78	0.0088	0.0063	
Moon	17281-11-21 04:19 G	8033140.54	8033140.68	8033140.87	0.0088	0.0067	*
Moon	17282-11-23 09:07 G	8033507.69	8033507.88	8033508.08	0.0088	0.0058	
Earth	17282-11-23 12:14 G	8033507.85	8033508.01	8033508.22	0.0088	0.0061	*
Earth	17283-11-25 22:33 G	8033875.27	8033875.44	8033875.65	0.0088	0.0058	
Moon	17283-11-26 01:55 G	8033875.42	8033875.58	8033875.79	0.0088	0.0061	*
Moon	17284-11-27 05:31 G	8034242.55	8034242.73	8034242.96	0.0088	0.0052	
Earth	17284-11-27 09:07 G	8034242.70	8034242.88	8034243.10	0.0088	0.0055	*
Earth	17285-11-29 19:26 G	8034610.12	8034610.31	8034610.53	0.0088	0.0052	
Moon	17285-11-29 22:04 G	8034610.23	8034610.42	8034610.64	0.0088	0.0055	*
Moon	17286-12-02 04:04 G	8034977.48	8034977.67	8034977.91	0.0088	0.0047	

Earth	17286-12-02 05:45 G	8034977.55	8034977.74	8034977.97	0.0088	0.0049 *
Earth	17287-12-04 16:04 G	8035344.97	8035345.17	8035345.41	0.0088	0.0046
Moon	17287-12-04 16:48 G	8035345.00	8035345.20	8035345.44	0.0088	0.0049 *
Earth	17288-12-06 02:24 G	8035712.39	8035712.60	8035712.84	0.0088	0.0043
Moon	17288-12-06 03:36 G	8035712.44	8035712.65	8035712.88	0.0088	0.0040 *
Moon	17289-12-08 10:48 G	8036079.73	8036079.95	8036080.19	0.0088	0.0042
Earth	17289-12-08 12:43 G	8036079.82	8036080.03	8036080.28	0.0088	0.0040 *
Earth	17290-12-10 23:31 G	8036447.25	8036447.48	8036447.71	0.0088	0.0036
Moon	17290-12-11 01:55 G	8036447.36	8036447.58	8036447.83	0.0088	0.0033 *
Moon	17291-12-13 05:45 G	8036814.52	8036814.74	8036814.99	0.0088	0.0036
Earth	17291-12-13 09:36 G	8036814.67	8036814.90	8036815.15	0.0088	0.0033 *
Earth	17292-12-14 19:55 G	8037182.10	8037182.33	8037182.59	0.0088	0.0030
Moon	17292-12-14 23:16 G	8037182.24	8037182.47	8037182.73	0.0088	0.0027 *
Moon	17293-12-17 03:07 G	8037549.41	8037549.63	8037549.88	0.0088	0.0030
Earth	17293-12-17 06:43 G	8037549.54	8037549.78	8037550.03	0.0088	0.0026 *
Earth	17294-12-19 17:02 G	8037916.97	8037917.21	8037917.47	0.0088	0.0023
Moon	17294-12-19 19:12 G	8037917.06	8037917.30	8037917.57	0.0088	0.0020 *
Moon	17295-12-22 02:38 G	8038284.37	8038284.61	8038284.85	0.0088	0.0022
Earth	17295-12-22 03:50 G	8038284.41	8038284.66	8038284.91	0.0088	0.0019 *
Earth	17296-12-23 14:24 G	8038651.85	8038652.10	8038652.36	0.0088	0.0016
Moon	17296-12-23 14:52 G	8038651.86	8038652.12	8038652.38	0.0088	0.0012 *
Earth	17297-12-26 01:12 G	8039019.30	8039019.55	8039019.81	0.0088	0.0012
Moon	17297-12-26 02:24 G	8039019.37	8039019.60	8039019.86	0.0088	0.0016 *
Moon	17298-12-28 09:36 G	8039386.64	8039386.90	8039387.17	0.0088	0.0006
Earth	17298-12-28 12:00 G	8039386.75	8039387.00	8039387.26	0.0088	0.0009 *
Earth	17299-12-30 22:48 G	8039754.19	8039754.45	8039754.71	0.0088	0.0005
Moon	17299-12-31 01:40 G	8039754.32	8039754.57	8039754.83	0.0088	0.0009 *
Moon	17301-01-02 06:00 G	8040121.49	8040121.75	8040122.01	0.0088	0.0002
Earth	17301-01-02 09:36 G	8040121.65	8040121.90	8040122.16	0.0088	0.0002 *
Earth	17302-01-04 20:24 G	8040489.09	8040489.35	8040489.61	0.0088	0.0002

Moon	17302-01-04 23:45 G	8040489.23	8040489.49	8040489.75	0.0088	0.0002	*
Moon	17303-01-07 03:50 G	8040856.42	8040856.66	8040856.92	0.0088	0.0010	
Earth	17303-01-07 07:12 G	8040856.54	8040856.80	8040857.06	0.0088	0.0006	*
Earth	17304-01-09 18:00 G	8041224.00	8041224.25	8041224.51	0.0088	0.0009	
Moon	17304-01-09 19:55 G	8041224.07	8041224.33	8041224.60	0.0088	0.0006	*
Moon	17305-01-11 04:04 G	8041591.43	8041591.67	8041591.92	0.0088	0.0016	
Earth	17305-01-11 05:02 G	8041591.46	8041591.71	8041591.97	0.0088	0.0013	*
Moon	17306-01-13 15:50 G	8041958.90	8041959.16	8041959.43	0.0088	0.0013	
Earth	17306-01-13 15:50 G	8041958.91	8041959.16	8041959.42	0.0088	0.0017	*
Earth	17307-01-16 02:52 G	8042326.37	8042326.62	8042326.88	0.0088	0.0020	
Moon	17307-01-16 04:33 G	8042326.46	8042326.69	8042326.94	0.0088	0.0024	*
Moon	17308-01-18 11:16 G	8042693.73	8042693.97	8042694.24	0.0088	0.0020	
Earth	17308-01-18 13:55 G	8042693.84	8042694.08	8042694.34	0.0088	0.0024	*
Earth	17309-01-20 01:12 G	8043061.31	8043061.55	8043061.80	0.0088	0.0027	
Moon	17309-01-20 04:33 G	8043061.45	8043061.69	8043061.93	0.0088	0.0031	*
Moon	17310-01-22 09:07 G	8043428.63	8043428.88	8043429.13	0.0088	0.0026	
Earth	17310-01-22 12:43 G	8043428.79	8043429.03	8043429.28	0.0088	0.0030	*
Earth	17311-01-24 23:31 G	8043796.26	8043796.48	8043796.74	0.0088	0.0034	
Moon	17311-01-25 02:52 G	8043796.40	8043796.62	8043796.87	0.0088	0.0038	*
Moon	17312-01-27 07:55 G	8044163.61	8044163.83	8044164.08	0.0088	0.0033	
Earth	17312-01-27 11:16 G	8044163.74	8044163.97	8044164.21	0.0088	0.0037	*
Earth	17313-01-28 22:48 G	8044531.22	8044531.45	8044531.68	0.0088	0.0040	
Moon	17313-01-29 00:43 G	8044531.30	8044531.53	8044531.76	0.0088	0.0044	*
Moon	17314-01-31 08:52 G	8044898.67	8044898.87	8044899.11	0.0088	0.0040	
Earth	17314-01-31 09:36 G	8044898.70	8044898.90	8044899.15	0.0088	0.0045	*
Moon	17315-02-02 21:07 G	8045266.18	8045266.38	8045266.62	0.0088	0.0051	
Earth	17315-02-02 21:07 G	8045266.19	8045266.38	8045266.62	0.0088	0.0047	*
Earth	17316-02-05 08:38 G	8045633.67	8045633.86	8045634.09	0.0088	0.0050	
Moon	17316-02-05 10:33 G	8045633.74	8045633.94	8045634.17	0.0088	0.0046	*
Moon	17317-02-06 17:31 G	8046001.06	8046001.23	8046001.46	0.0088	0.0057	

Earth	17317-02-06 20:09 G	8046001.16	8046001.34	8046001.57	0.0088	0.0053 *
Earth	17318-02-09 07:40 G	8046368.64	8046368.82	8046369.04	0.0088	0.0056
Moon	17318-02-09 11:02 G	8046368.77	8046368.96	8046369.19	0.0088	0.0052 *
Moon	17319-02-11 15:36 G	8046735.99	8046736.15	8046736.35	0.0088	0.0064
Earth	17319-02-11 19:40 G	8046736.13	8046736.32	8046736.52	0.0088	0.0059 *
Earth	17320-02-14 07:12 G	8047103.63	8047103.80	8047104.00	0.0088	0.0062
Moon	17320-02-14 10:19 G	8047103.76	8047103.93	8047104.15	0.0088	0.0058 *
Moon	17321-02-15 15:50 G	8047471.03	8047471.16	8047471.34	0.0088	0.0069
Earth	17321-02-15 18:57 G	8047471.14	8047471.29	8047471.49	0.0088	0.0065 *
Earth	17322-02-18 06:43 G	8047838.64	8047838.78	8047838.97	0.0088	0.0067
Moon	17322-02-18 08:38 G	8047838.69	8047838.86	8047839.07	0.0088	0.0063 *
Moon	17323-02-20 18:14 G	8048206.13	8048206.26	8048206.40	0.0088	0.0074
Earth	17323-02-20 18:57 G	8048206.15	8048206.29	8048206.46	0.0088	0.0070 *
Mars	17323-05-15 14:52 G	8048289.86	8048290.12	8048290.42	0.0088	0.0043
Moon	17324-02-23 06:28 G	8048573.63	8048573.77	8048573.97	0.0088	0.0068
Earth	17324-02-23 06:43 G	8048573.66	8048573.78	8048573.96	0.0088	0.0072 *
Earth	17325-02-24 18:43 G	8048941.17	8048941.28	8048941.45	0.0088	0.0075
Moon	17325-02-24 21:07 G	8048941.28	8048941.38	8048941.50	0.0088	0.0079 *
Mars	17325-04-09 13:55 G	8048984.82	8048985.08	8048985.37	0.0088	0.0043
Moon	17326-02-27 04:19 G	8049308.56	8049308.68	8049308.87	0.0088	0.0073
Earth	17326-02-27 07:12 G	8049308.69	8049308.80	8049308.95	0.0088	0.0077 *
Earth	17327-03-01 18:57 G	8049676.20	8049676.29	8049676.43	0.0088	0.0079
Moon	17327-03-01 22:19 G	8049676.37	8049676.43	8049676.53	0.0088	0.0084 *
Moon	17328-03-03 04:04 G	8050043.54	8050043.67	8050043.80	0.0088	0.0076
Earth	17328-03-03 07:26 G	8050043.72	8050043.81	8050043.93	0.0088	0.0081 *
Earth	17329-03-05 19:26 G	8050411.24	8050411.31	8050411.42	0.0089	0.0083
Moon	17329-03-05 23:02 G	8050411.43	8050411.46	8050411.52	0.0089	0.0087
Moon	17330-03-08 04:33 G	8050778.60	8050778.69	8050778.82	0.0089	0.0080
Earth	17330-03-08 07:26 G	8050778.76	8050778.81	8050778.92	0.0089	0.0085 *
Earth	17331-03-10 19:55 G	8051146.29	8051146.33	8051146.41	0.0089	0.0086

Moon	17332-03-12 07:12 G	8051513.74	8051513.80	8051513.90	0.0089	0.0084
Earth	17332-03-12 08:09 G	8051513.83	8051513.84	8051513.90	0.0089	0.0088 *
Moon	17334-03-17 11:16 G	8052248.92	8052248.97	8052249.04	0.0089	0.0086
Moon	17336-03-21 13:55 G	8052984.07	8052984.08	8052984.13	0.0089	0.0088
Venus	17346-09-14 18:57 G	8056813.19	8056813.29	8056813.39	0.0089	0.0079
Venus	17347-04-28 07:55 G	8057038.67	8057038.83	8057039.00	0.0089	0.0058
Venus	17347-12-09 21:07 G	8057264.19	8057264.38	8057264.59	0.0089	0.0038
Venus	17348-07-22 10:19 G	8057489.73	8057489.93	8057490.16	0.0089	0.0018
Venus	17349-03-04 23:45 G	8057715.28	8057715.49	8057715.72	0.0089	0.0004
Venus	17349-10-16 13:12 G	8057940.84	8057941.05	8057941.26	0.0089	0.0023
Moon	17350-04-22 21:50 G	8058129.41	8058129.41	8058129.44	0.0089	0.0089
Venus	17350-05-30 01:55 G	8058166.41	8058166.58	8058166.79	0.0089	0.0044
Venus	17351-01-10 15:21 G	8058392.00	8058392.14	8058392.31	0.0089	0.0063
Venus	17351-08-24 04:33 G	8058617.63	8058617.69	8058617.78	0.0089	0.0084
Earth	17352-04-27 01:55 G	8058864.57	8058864.58	8058864.63	0.0089	0.0089
Moon	17352-04-27 02:38 G	8058864.58	8058864.61	8058864.70	0.0089	0.0087 *
Mercury	17352-09-12 10:19 G	8059002.92	8059002.93	8059002.96	0.0089	0.0089
Mercury	17352-12-09 12:28 G	8059090.97	8059091.02	8059091.10	0.0089	0.0081
Mercury	17353-03-07 14:38 G	8059179.04	8059179.11	8059179.22	0.0089	0.0073
Moon	17353-04-29 13:26 G	8059232.06	8059232.06	8059232.09	0.0089	0.0089
Earth	17353-04-29 14:52 G	8059232.09	8059232.12	8059232.20	0.0089	0.0087 *
Mercury	17353-06-03 17:16 G	8059267.11	8059267.22	8059267.33	0.0089	0.0064
Mercury	17353-08-30 19:26 G	8059355.19	8059355.31	8059355.44	0.0089	0.0055
Mercury	17353-11-26 21:36 G	8059443.28	8059443.40	8059443.54	0.0089	0.0047
Mercury	17354-02-22 23:45 G	8059531.36	8059531.49	8059531.65	0.0089	0.0039
Earth	17354-05-02 04:04 G	8059599.61	8059599.67	8059599.75	0.0089	0.0086
Moon	17354-05-02 06:43 G	8059599.72	8059599.78	8059599.89	0.0089	0.0084 *
Mercury	17354-05-22 02:09 G	8059619.45	8059619.59	8059619.74	0.0089	0.0031
Mercury	17354-08-18 04:33 G	8059707.53	8059707.69	8059707.84	0.0089	0.0023
Mercury	17354-11-14 06:43 G	8059795.62	8059795.78	8059795.93	0.0089	0.0014

Mercury	17355-02-10 08:52 G	8059883.71	8059883.87	8059884.03	0.0089	0.0006
Moon	17355-05-04 13:40 G	8059967.03	8059967.07	8059967.15	0.0089	0.0087
Earth	17355-05-04 16:48 G	8059967.15	8059967.20	8059967.32	0.0089	0.0085 *
Mercury	17355-05-09 11:02 G	8059971.80	8059971.96	8059972.12	0.0089	0.0002
Mercury	17355-08-05 13:12 G	8060059.89	8060060.05	8060060.20	0.0089	0.0010
Mercury	17355-11-01 15:07 G	8060147.98	8060148.13	8060148.29	0.0089	0.0018
Mercury	17356-01-28 17:16 G	8060236.08	8060236.22	8060236.38	0.0089	0.0026
Mercury	17356-04-25 19:12 G	8060324.17	8060324.30	8060324.46	0.0089	0.0035
Earth	17356-05-06 06:00 G	8060334.68	8060334.75	8060334.88	0.0089	0.0083
Moon	17356-05-06 09:36 G	8060334.82	8060334.90	8060335.03	0.0089	0.0081 *
Mercury	17356-07-22 21:36 G	8060412.27	8060412.40	8060412.54	0.0089	0.0042
Mercury	17356-10-18 23:45 G	8060500.36	8060500.49	8060500.62	0.0089	0.0050
Mercury	17357-01-15 01:40 G	8060588.46	8060588.57	8060588.70	0.0089	0.0058
Mercury	17357-04-13 03:36 G	8060676.56	8060676.65	8060676.77	0.0089	0.0066
Moon	17357-05-08 15:36 G	8060702.08	8060702.15	8060702.28	0.0089	0.0083
Earth	17357-05-08 19:12 G	8060702.21	8060702.30	8060702.44	0.0089	0.0081 *
Mercury	17357-07-10 05:45 G	8060764.66	8060764.74	8060764.84	0.0089	0.0073
Mercury	17357-10-06 08:09 G	8060852.77	8060852.84	8060852.90	0.0089	0.0081
Mercury	17358-01-02 10:04 G	8060940.91	8060940.92	8060940.94	0.0089	0.0089
Earth	17358-05-11 08:09 G	8061069.75	8061069.84	8061069.99	0.0089	0.0079
Moon	17358-05-11 11:02 G	8061069.85	8061069.96	8061070.12	0.0089	0.0077 *
Moon	17359-05-13 19:55 G	8061437.21	8061437.33	8061437.46	0.0089	0.0077
Earth	17359-05-13 22:04 G	8061437.29	8061437.42	8061437.56	0.0089	0.0076 *
Earth	17360-05-15 11:02 G	8061804.83	8061804.96	8061805.12	0.0089	0.0074
Moon	17360-05-15 11:16 G	8061804.85	8061804.97	8061805.16	0.0089	0.0073 *
Earth	17361-05-18 00:00 G	8062172.37	8062172.50	8062172.68	0.0089	0.0072
Moon	17361-05-18 00:43 G	8062172.41	8062172.53	8062172.70	0.0089	0.0073 *
Moon	17362-05-20 12:28 G	8062539.85	8062540.02	8062540.19	0.0089	0.0068
Earth	17362-05-20 13:26 G	8062539.91	8062540.06	8062540.24	0.0089	0.0069 *
Earth	17363-05-23 03:07 G	8062907.46	8062907.63	8062907.80	0.0089	0.0066

Moon	17363-05-23 05:45 G	8062907.58	8062907.74	8062907.91	0.0089	0.0067 *
Moon	17364-05-24 12:28 G	8063274.86	8063275.02	8063275.24	0.0089	0.0063
Earth	17364-05-24 15:50 G	8063275.00	8063275.16	8063275.37	0.0089	0.0064 *
Earth	17365-05-27 04:48 G	8063642.53	8063642.70	8063642.91	0.0089	0.0061
Moon	17365-05-27 08:52 G	8063642.68	8063642.87	8063643.06	0.0089	0.0060 *
Moon	17366-05-29 14:24 G	8064009.93	8064010.10	8064010.32	0.0090	0.0058
Earth	17366-05-29 18:14 G	8064010.08	8064010.26	8064010.47	0.0090	0.0058 *
Earth	17367-06-01 07:12 G	8064377.61	8064377.80	8064378.02	0.0090	0.0055
Moon	17367-06-01 10:33 G	8064377.73	8064377.94	8064378.15	0.0090	0.0054 *
Moon	17368-06-02 17:45 G	8064745.05	8064745.24	8064745.46	0.0090	0.0053
Earth	17368-06-02 20:09 G	8064745.15	8064745.34	8064745.57	0.0090	0.0052 *
Earth	17369-06-05 09:07 G	8065112.69	8065112.88	8065113.12	0.0090	0.0049
Moon	17369-06-05 10:19 G	8065112.72	8065112.93	8065113.17	0.0090	0.0048 *
Earth	17370-06-07 22:33 G	8065480.22	8065480.44	8065480.67	0.0090	0.0045
Moon	17370-06-07 22:33 G	8065480.23	8065480.44	8065480.66	0.0090	0.0046 *
Moon	17371-06-10 10:19 G	8065847.71	8065847.93	8065848.19	0.0090	0.0041
Earth	17371-06-10 11:31 G	8065847.76	8065847.98	8065848.22	0.0090	0.0042 *
Earth	17372-06-12 00:28 G	8066215.30	8066215.52	8066215.77	0.0090	0.0039
Moon	17372-06-12 02:52 G	8066215.41	8066215.62	8066215.87	0.0090	0.0040 *
Moon	17373-06-14 10:48 G	8066582.71	8066582.95	8066583.20	0.0090	0.0034
Earth	17373-06-14 13:40 G	8066582.84	8066583.07	8066583.32	0.0090	0.0035 *
Earth	17374-06-17 02:38 G	8066950.38	8066950.61	8066950.87	0.0090	0.0032
Moon	17374-06-17 06:14 G	8066950.53	8066950.76	8066951.01	0.0090	0.0034 *
Moon	17375-06-19 12:14 G	8067317.78	8067318.01	8067318.27	0.0090	0.0027
Earth	17375-06-19 16:04 G	8067317.93	8067318.17	8067318.42	0.0090	0.0028 *
Earth	17376-06-21 05:02 G	8067685.46	8067685.71	8067685.96	0.0090	0.0024
Moon	17376-06-21 07:55 G	8067685.59	8067685.83	8067686.10	0.0090	0.0027 *
Moon	17377-06-23 15:21 G	8068052.89	8068053.14	8068053.39	0.0090	0.0018
Earth	17377-06-23 17:45 G	8068053.00	8068053.24	8068053.50	0.0090	0.0021 *
Earth	17378-06-26 06:43 G	8068420.53	8068420.78	8068421.04	0.0090	0.0017

Moon	17378-06-26 07:55 G	8068420.58	8068420.83	8068421.10	0.0090	0.0019 *
Moon	17379-06-28 18:57 G	8068788.06	8068788.29	8068788.55	0.0090	0.0012
Earth	17379-06-28 19:26 G	8068788.06	8068788.31	8068788.57	0.0090	0.0013 *
Moon	17380-06-30 07:26 G	8069155.55	8069155.81	8069156.08	0.0090	0.0012
Earth	17380-06-30 08:09 G	8069155.59	8069155.84	8069156.10	0.0090	0.0010 *
Earth	17381-07-02 20:38 G	8069523.11	8069523.36	8069523.62	0.0090	0.0006
Moon	17381-07-02 23:02 G	8069523.21	8069523.46	8069523.71	0.0090	0.0004 *
Moon	17382-07-05 06:43 G	8069890.51	8069890.78	8069891.04	0.0090	0.0005
Earth	17382-07-05 09:36 G	8069890.64	8069890.90	8069891.15	0.0090	0.0003 *
Earth	17383-07-07 22:04 G	8070258.16	8070258.42	8070258.68	0.0089	0.0001
Moon	17383-07-08 01:26 G	8070258.31	8070258.56	8070258.82	0.0089	0.0005 *
Moon	17384-07-09 06:57 G	8070625.54	8070625.79	8070626.05	0.0089	0.0003
Earth	17384-07-09 10:33 G	8070625.69	8070625.94	8070626.20	0.0089	0.0006 *
Earth	17385-07-11 23:16 G	8070993.21	8070993.47	8070993.72	0.0089	0.0009
Moon	17385-07-12 02:24 G	8070993.35	8070993.60	8070993.86	0.0089	0.0012 *
Moon	17386-07-14 08:52 G	8071360.63	8071360.87	8071361.13	0.0089	0.0009
Earth	17386-07-14 11:45 G	8071360.74	8071360.99	8071361.25	0.0089	0.0013 *
Earth	17387-07-17 00:14 G	8071728.26	8071728.51	8071728.77	0.0089	0.0016
Moon	17387-07-17 01:40 G	8071728.32	8071728.57	8071728.84	0.0089	0.0019 *
Moon	17388-07-18 12:14 G	8072095.77	8072096.01	8072096.26	0.0089	0.0016
Earth	17388-07-18 12:57 G	8072095.79	8072096.04	8072096.29	0.0089	0.0020 *
Moon	17389-07-21 00:28 G	8072463.27	8072463.52	8072463.78	0.0089	0.0027
Earth	17389-07-21 00:57 G	8072463.30	8072463.54	8072463.80	0.0089	0.0023 *
Earth	17390-07-23 13:12 G	8072830.81	8072831.05	8072831.31	0.0089	0.0027
Moon	17390-07-23 15:21 G	8072830.91	8072831.14	8072831.39	0.0089	0.0024 *
Moon	17391-07-25 22:48 G	8073198.22	8073198.45	8073198.70	0.0089	0.0034
Earth	17391-07-26 01:12 G	8073198.33	8073198.55	8073198.81	0.0089	0.0031 *
Earth	17392-07-27 13:26 G	8073565.83	8073566.06	8073566.30	0.0089	0.0034
Moon	17392-07-27 16:48 G	8073565.97	8073566.20	8073566.45	0.0089	0.0029 *
Moon	17393-07-29 21:50 G	8073933.19	8073933.41	8073933.65	0.0089	0.0041



Earth	17393-07-30 01:26 G	8073933.34	8073933.56	8073933.80	0.0089	0.0037 *
Earth	17394-08-01 13:12 G	8074300.84	8074301.05	8074301.30	0.0089	0.0040
Moon	17394-08-01 17:02 G	8074300.97	8074301.21	8074301.44	0.0089	0.0036 *
Moon	17395-08-03 22:33 G	8074668.23	8074668.44	8074668.66	0.0089	0.0048
Earth	17395-08-04 01:12 G	8074668.34	8074668.55	8074668.79	0.0089	0.0043 *
Earth	17396-08-05 13:12 G	8075035.84	8075036.05	8075036.28	0.0089	0.0046
Moon	17396-08-05 14:38 G	8075035.89	8075036.11	8075036.36	0.0089	0.0043 *
Moon	17397-08-08 00:14 G	8075403.32	8075403.51	8075403.72	0.0089	0.0053
Earth	17397-08-08 00:57 G	8075403.34	8075403.54	8075403.77	0.0089	0.0049 *
Moon	17398-08-10 12:00 G	8075770.80	8075771.00	8075771.25	0.0089	0.0049
Earth	17398-08-10 12:57 G	8075770.84	8075771.04	8075771.26	0.0089	0.0052 *
Earth	17399-08-13 00:43 G	8076138.34	8076138.53	8076138.75	0.0089	0.0055
Moon	17399-08-13 02:38 G	8076138.44	8076138.61	8076138.81	0.0089	0.0060 *
Moon	17400-08-15 09:36 G	8076505.72	8076505.90	8076506.13	0.0089	0.0054
Earth	17400-08-15 12:14 G	8076505.84	8076506.01	8076506.23	0.0089	0.0059 *
Earth	17401-08-18 00:28 G	8076873.33	8076873.52	8076873.71	0.0089	0.0061
Moon	17401-08-18 03:36 G	8076873.49	8076873.65	8076873.83	0.0089	0.0066 *
Moon	17402-08-20 08:09 G	8077240.67	8077240.84	8077241.05	0.0089	0.0060
Earth	17402-08-20 12:00 G	8077240.83	8077241.00	8077241.19	0.0089	0.0063 *
Earth	17403-08-22 23:02 G	8077608.31	8077608.46	8077608.66	0.0089	0.0066
Moon	17403-08-23 02:38 G	8077608.47	8077608.61	8077608.78	0.0089	0.0070 *
Moon	17404-08-24 07:40 G	8077975.67	8077975.82	8077976.02	0.0089	0.0064
Earth	17404-08-24 10:48 G	8077975.80	8077975.95	8077976.13	0.0089	0.0068 *
Mars	17405-01-25 10:04 G	8078129.63	8078129.92	8078130.23	0.0089	0.0022
Earth	17405-08-26 22:04 G	8078343.28	8078343.42	8078343.59	0.0089	0.0070
Moon	17405-08-26 23:45 G	8078343.35	8078343.49	8078343.64	0.0089	0.0075 *
Moon	17406-08-29 08:24 G	8078710.72	8078710.85	8078711.03	0.0089	0.0069
Earth	17406-08-29 09:07 G	8078710.76	8078710.88	8078711.05	0.0089	0.0073 *
Mars	17406-12-21 00:57 G	8078824.34	8078824.54	8078824.79	0.0089	0.0062
Moon	17407-08-31 19:55 G	8079078.23	8079078.33	8079078.47	0.0089	0.0079

Earth	17407-08-31 20:24 G	8079078.24	8079078.35	8079078.51	0.0089	0.0075 *
Earth	17408-09-02 07:26 G	8079445.71	8079445.81	8079445.97	0.0089	0.0077
Moon	17408-09-02 09:36 G	8079445.79	8079445.90	8079446.07	0.0089	0.0073 *
Moon	17409-09-04 16:04 G	8079813.10	8079813.17	8079813.29	0.0089	0.0083
Earth	17409-09-04 19:26 G	8079813.19	8079813.31	8079813.43	0.0089	0.0078 *
Earth	17410-09-07 06:14 G	8080180.67	8080180.76	8080180.88	0.0089	0.0080
Moon	17410-09-07 09:21 G	8080180.79	8080180.89	8080181.05	0.0089	0.0076 *
Moon	17411-09-09 14:09 G	8080548.04	8080548.09	8080548.16	0.0089	0.0086
Earth	17411-09-09 17:16 G	8080548.15	8080548.22	8080548.34	0.0089	0.0082 *
Earth	17412-09-11 04:48 G	8080915.62	8080915.70	8080915.79	0.0089	0.0083
Moon	17412-09-11 07:40 G	8080915.73	8080915.82	8080915.96	0.0089	0.0079 *
Earth	17413-09-13 15:21 G	8081283.10	8081283.14	8081283.25	0.0089	0.0085
Earth	17414-09-16 02:24 G	8081650.57	8081650.60	8081650.69	0.0089	0.0086
Moon	17414-09-16 04:04 G	8081650.58	8081650.67	8081650.79	0.0089	0.0081 *
Earth	17415-09-18 13:26 G	8082018.03	8082018.06	8082018.14	0.0089	0.0087
Moon	17416-09-19 23:16 G	8082385.40	8082385.47	8082385.59	0.0089	0.0083
Earth	17416-09-20 00:14 G	8082385.50	8082385.51	8082385.57	0.0089	0.0088 *
Earth	17417-09-22 11:02 G	8082752.96	8082752.96	8082753.00	0.0089	0.0089
Moon	17418-09-24 18:57 G	8083120.24	8083120.29	8083120.39	0.0089	0.0085
Moon	17420-09-28 15:36 G	8083855.12	8083855.15	8083855.24	0.0089	0.0086
Moon	17422-10-03 14:24 G	8084590.05	8084590.10	8084590.16	0.0088	0.0086
Moon	17424-10-07 13:12 G	8085325.03	8085325.05	8085325.12	0.0088	0.0087
Moon	17426-10-12 13:12 G	8086060.01	8086060.05	8086060.13	0.0088	0.0086
Venus	17428-03-21 05:16 G	8086585.61	8086585.72	8086585.86	0.0088	0.0072
Moon	17428-10-16 10:48 G	8086794.91	8086794.95	8086795.06	0.0088	0.0085
Venus	17428-11-01 18:14 G	8086811.09	8086811.26	8086811.44	0.0088	0.0053
Venus	17429-06-15 06:43 G	8087036.59	8087036.78	8087037.00	0.0088	0.0034
Earth	17429-10-18 18:14 G	8087162.24	8087162.26	8087162.30	0.0088	0.0088
Venus	17430-01-26 19:55 G	8087262.11	8087262.33	8087262.55	0.0088	0.0013
Venus	17430-09-09 08:38 G	8087487.64	8087487.86	8087488.08	0.0088	0.0007

Earth	17430-10-21 03:50 G	8087529.65	8087529.66	8087529.73	0.0088	0.0087
Moon	17430-10-21 07:26 G	8087529.73	8087529.81	8087529.91	0.0088	0.0083 *
Venus	17431-04-22 21:07 G	8087713.18	8087713.38	8087713.60	0.0088	0.0026
Earth	17431-10-23 14:52 G	8087897.06	8087897.12	8087897.18	0.0088	0.0086
Venus	17431-12-04 09:50 G	8087938.73	8087938.91	8087939.11	0.0088	0.0046
Venus	17432-07-16 22:19 G	8088164.31	8088164.43	8088164.60	0.0088	0.0066
Moon	17432-10-25 01:12 G	8088264.46	8088264.55	8088264.68	0.0088	0.0081
Earth	17432-10-25 00:14 G	8088264.48	8088264.51	8088264.61	0.0088	0.0086 *
Venus	17433-02-27 11:16 G	8088389.93	8088389.97	8088390.05	0.0088	0.0085
Earth	17433-10-27 11:02 G	8088631.89	8088631.96	8088632.05	0.0088	0.0083
Moon	17433-10-27 11:16 G	8088631.95	8088631.97	8088632.01	0.0088	0.0088 *
Mercury	17434-03-13 11:45 G	8088768.97	8088768.99	8088769.04	0.0088	0.0085
Mercury	17434-06-09 13:40 G	8088857.01	8088857.07	8088857.15	0.0088	0.0078
Mercury	17434-09-05 15:50 G	8088945.08	8088945.16	8088945.26	0.0088	0.0070
Moon	17434-10-29 19:26 G	8088999.20	8088999.31	8088999.45	0.0088	0.0078
Earth	17434-10-29 21:07 G	8088999.31	8088999.38	8088999.49	0.0088	0.0082 *
Mercury	17434-12-02 17:45 G	8089033.14	8089033.24	8089033.36	0.0088	0.0063
Mercury	17435-02-28 19:55 G	8089121.21	8089121.33	8089121.45	0.0088	0.0055
Mercury	17435-05-27 21:50 G	8089209.29	8089209.41	8089209.55	0.0088	0.0048
Mercury	17435-08-24 00:00 G	8089297.37	8089297.50	8089297.64	0.0088	0.0040
Earth	17435-11-01 07:40 G	8089366.72	8089366.82	8089366.93	0.0088	0.0081
Moon	17435-11-01 10:04 G	8089366.88	8089366.92	8089367.01	0.0088	0.0085 *
Mercury	17435-11-20 02:09 G	8089385.44	8089385.59	8089385.73	0.0088	0.0033
Mercury	17436-02-16 04:04 G	8089473.52	8089473.67	8089473.82	0.0088	0.0025
Mercury	17436-05-14 06:14 G	8089561.61	8089561.76	8089561.91	0.0088	0.0017
Mercury	17436-08-10 08:24 G	8089649.69	8089649.85	8089650.00	0.0088	0.0010
Moon	17436-11-02 14:24 G	8089733.99	8089734.10	8089734.26	0.0088	0.0075
Earth	17436-11-02 17:45 G	8089734.15	8089734.24	8089734.37	0.0088	0.0079 *
Mercury	17436-11-06 10:19 G	8089737.78	8089737.93	8089738.09	0.0088	0.0003
Mercury	17437-02-02 12:28 G	8089825.86	8089826.02	8089826.18	0.0088	0.0006

Mercury	17437-05-01 14:38 G	8089913.95	8089914.11	8089914.27	0.0088	0.0014
Mercury	17437-07-28 16:33 G	8090002.05	8090002.19	8090002.35	0.0088	0.0022
Mercury	17437-10-24 18:43 G	8090090.14	8090090.28	8090090.44	0.0088	0.0030
Earth	17437-11-05 04:04 G	8090101.57	8090101.67	8090101.81	0.0088	0.0077
Moon	17437-11-05 07:40 G	8090101.75	8090101.82	8090101.94	0.0088	0.0082 *
Jupiter	17437-11-26 20:09 G	8090122.87	8090123.34	8090123.90	0.0088	0.0038
Mercury	17438-01-20 21:07 G	8090178.23	8090178.38	8090178.52	0.0088	0.0037
Mercury	17438-04-18 23:02 G	8090266.33	8090266.46	8090266.60	0.0088	0.0045
Mercury	17438-07-16 01:12 G	8090354.43	8090354.55	8090354.68	0.0088	0.0053
Mercury	17438-10-12 03:21 G	8090442.53	8090442.64	8090442.76	0.0088	0.0061
Moon	17438-11-07 11:31 G	8090468.84	8090468.98	8090469.14	0.0088	0.0071
Earth	17438-11-07 14:52 G	8090468.99	8090469.12	8090469.25	0.0088	0.0075 *
Mercury	17439-01-08 05:31 G	8090530.64	8090530.73	8090530.84	0.0088	0.0069
Mercury	17439-04-06 07:40 G	8090618.76	8090618.82	8090618.91	0.0088	0.0077
Mercury	17439-07-03 09:50 G	8090706.89	8090706.91	8090706.96	0.0088	0.0085
Earth	17439-11-10 00:57 G	8090836.41	8090836.54	8090836.69	0.0088	0.0073
Moon	17439-11-10 03:36 G	8090836.54	8090836.65	8090836.79	0.0088	0.0077 *
Moon	17440-11-11 09:50 G	8091203.75	8091203.91	8091204.07	0.0088	0.0067
Earth	17440-11-11 10:48 G	8091203.83	8091203.95	8091204.12	0.0088	0.0072 *
Earth	17441-11-13 21:21 G	8091571.25	8091571.39	8091571.56	0.0088	0.0069
Moon	17441-11-13 21:21 G	8091571.26	8091571.39	8091571.55	0.0088	0.0073 *
Earth	17442-11-16 07:26 G	8091938.66	8091938.81	8091938.99	0.0088	0.0067
Moon	17442-11-16 07:55 G	8091938.68	8091938.83	8091939.02	0.0088	0.0064 *
Moon	17443-11-18 15:07 G	8092305.99	8092306.13	8092306.32	0.0088	0.0069
Earth	17443-11-18 17:31 G	8092306.08	8092306.23	8092306.42	0.0088	0.0065 *
Earth	17444-11-20 03:36 G	8092673.50	8092673.65	8092673.85	0.0088	0.0063
Moon	17444-11-20 07:12 G	8092673.61	8092673.80	8092673.99	0.0088	0.0058 *
Moon	17445-11-22 10:33 G	8093040.79	8093040.94	8093041.14	0.0088	0.0064
Earth	17445-11-22 14:09 G	8093040.92	8093041.09	8093041.29	0.0088	0.0060 *
Earth	17446-11-25 00:00 G	8093408.33	8093408.50	8093408.72	0.0088	0.0058

Moon	17446-11-25 04:04 G	8093408.47	8093408.67	8093408.88	0.0088	0.0053 *
Moon	17447-11-27 07:40 G	8093775.65	8093775.82	8093776.02	0.0088	0.0059
Earth	17447-11-27 10:19 G	8093775.76	8093775.93	8093776.16	0.0088	0.0055 *
Earth	17448-11-28 20:52 G	8094143.18	8094143.37	8094143.59	0.0088	0.0052
Moon	17448-11-28 23:16 G	8094143.27	8094143.47	8094143.71	0.0088	0.0049 *
Moon	17449-12-01 06:14 G	8094510.57	8094510.76	8094510.97	0.0088	0.0053
Earth	17449-12-01 07:26 G	8094510.61	8094510.81	8094511.03	0.0088	0.0049 *
Moon	17450-12-03 17:16 G	8094878.01	8094878.22	8094878.47	0.0088	0.0043
Earth	17450-12-03 18:00 G	8094878.04	8094878.25	8094878.47	0.0088	0.0046 *
Earth	17451-12-06 04:19 G	8095245.46	8095245.68	8095245.91	0.0088	0.0043
Moon	17451-12-06 05:02 G	8095245.52	8095245.71	8095245.94	0.0088	0.0047 *
Moon	17452-12-07 12:14 G	8095612.78	8095613.01	8095613.25	0.0088	0.0036
Earth	17452-12-07 14:24 G	8095612.90	8095613.10	8095613.35	0.0088	0.0041 *
Earth	17453-12-10 01:12 G	8095980.32	8095980.55	8095980.79	0.0088	0.0037
Moon	17453-12-10 04:19 G	8095980.47	8095980.68	8095980.91	0.0088	0.0041 *
Moon	17454-12-12 07:55 G	8096347.60	8096347.83	8096348.08	0.0088	0.0031
Earth	17454-12-12 11:31 G	8096347.75	8096347.98	8096348.23	0.0088	0.0034 *
Earth	17455-12-14 21:50 G	8096715.18	8096715.41	8096715.66	0.0088	0.0031
Moon	17455-12-15 01:26 G	8096715.33	8096715.56	8096715.81	0.0088	0.0035 *
Moon	17456-12-16 06:00 G	8097082.50	8097082.75	8097082.99	0.0088	0.0024
Earth	17456-12-16 08:24 G	8097082.61	8097082.85	8097083.10	0.0088	0.0028 *
Earth	17457-12-18 18:28 G	8097450.04	8097450.27	8097450.54	0.0088	0.0025
Moon	17457-12-18 20:52 G	8097450.13	8097450.37	8097450.64	0.0088	0.0028 *
Moon	17458-12-21 04:33 G	8097817.45	8097817.69	8097817.94	0.0088	0.0018
Earth	17458-12-21 05:02 G	8097817.48	8097817.71	8097817.98	0.0088	0.0022 *
Moon	17459-12-23 14:52 G	8098184.87	8098185.12	8098185.39	0.0088	0.0022
Earth	17459-12-23 15:50 G	8098184.91	8098185.16	8098185.41	0.0088	0.0018 *
Earth	17460-12-25 02:24 G	8098552.35	8098552.60	8098552.86	0.0088	0.0015
Moon	17460-12-25 03:50 G	8098552.41	8098552.66	8098552.91	0.0088	0.0012 *
Moon	17461-12-27 10:04 G	8098919.67	8098919.92	8098920.19	0.0088	0.0015

Earth	17461-12-27 12:57 G	8098919.80	8098920.04	8098920.31	0.0088	0.0012	*
Earth	17462-12-29 23:45 G	8099287.23	8099287.49	8099287.75	0.0088	0.0008	
Moon	17462-12-30 03:07 G	8099287.37	8099287.63	8099287.88	0.0088	0.0005	*
Moon	17464-01-01 06:57 G	8099654.54	8099654.79	8099655.05	0.0088	0.0008	
Earth	17464-01-01 10:33 G	8099654.69	8099654.94	8099655.20	0.0088	0.0005	*
Earth	17465-01-02 21:21 G	8100022.13	8100022.39	8100022.65	0.0088	0.0002	
Moon	17465-01-03 00:57 G	8100022.28	8100022.54	8100022.80	0.0088	0.0002	*
Moon	17466-01-05 05:45 G	8100389.49	8100389.74	8100389.99	0.0088	0.0001	
Earth	17466-01-05 08:09 G	8100389.58	8100389.84	8100390.10	0.0088	0.0002	*
Earth	17467-01-07 18:57 G	8100757.03	8100757.29	8100757.55	0.0088	0.0005	
Moon	17467-01-07 20:52 G	8100757.11	8100757.37	8100757.64	0.0088	0.0008	*
Moon	17468-01-10 05:16 G	8101124.48	8101124.72	8101124.98	0.0088	0.0006	
Earth	17468-01-10 05:45 G	8101124.49	8101124.74	8101125.00	0.0088	0.0009	*
Moon	17469-01-11 15:36 G	8101491.89	8101492.15	8101492.42	0.0088	0.0015	
Earth	17469-01-11 16:33 G	8101491.94	8101492.19	8101492.45	0.0088	0.0012	*
Earth	17470-01-14 03:36 G	8101859.40	8101859.65	8101859.90	0.0088	0.0015	
Moon	17470-01-14 05:02 G	8101859.47	8101859.71	8101859.97	0.0088	0.0013	*
Moon	17471-01-16 11:02 G	8102226.72	8102226.96	8102227.23	0.0088	0.0022	
Earth	17471-01-16 14:09 G	8102226.85	8102227.09	8102227.36	0.0088	0.0019	*
Earth	17472-01-19 01:12 G	8102594.31	8102594.55	8102594.81	0.0088	0.0022	
Moon	17472-01-19 04:48 G	8102594.45	8102594.70	8102594.95	0.0088	0.0019	*
Moon	17473-01-20 08:38 G	8102961.63	8102961.86	8102962.12	0.0088	0.0028	
Earth	17473-01-20 12:28 G	8102961.78	8102962.02	8102962.27	0.0088	0.0025	*
Earth	17474-01-22 23:16 G	8103329.24	8103329.47	8103329.73	0.0088	0.0029	
Moon	17474-01-23 02:38 G	8103329.37	8103329.61	8103329.87	0.0088	0.0026	*
Moon	17475-01-25 08:24 G	8103696.63	8103696.85	8103697.09	0.0088	0.0034	
Earth	17475-01-25 10:33 G	8103696.71	8103696.94	8103697.20	0.0088	0.0032	*
Earth	17476-01-27 21:50 G	8104064.19	8104064.41	8104064.67	0.0088	0.0035	
Moon	17476-01-28 00:00 G	8104064.26	8104064.50	8104064.75	0.0088	0.0033	*
Earth	17477-01-29 09:21 G	8104431.67	8104431.89	8104432.14	0.0088	0.0038	

Moon	17477-01-29 09:36 G	8104431.68	8104431.90	8104432.12	0.0088	0.0040	*
Moon	17478-01-31 19:40 G	8104799.10	8104799.32	8104799.58	0.0088	0.0039	
Earth	17478-01-31 20:52 G	8104799.16	8104799.37	8104799.61	0.0088	0.0041	*
Earth	17479-02-03 08:09 G	8105166.63	8105166.84	8105167.08	0.0088	0.0044	
Moon	17479-02-03 09:50 G	8105166.72	8105166.91	8105167.15	0.0088	0.0046	*
Moon	17480-02-05 16:48 G	8105533.98	8105534.20	8105534.43	0.0088	0.0045	
Earth	17480-02-05 19:55 G	8105534.12	8105534.33	8105534.56	0.0088	0.0047	*
Earth	17481-02-07 07:12 G	8105901.61	8105901.80	8105902.03	0.0088	0.0050	
Moon	17481-02-07 10:33 G	8105901.76	8105901.94	8105902.17	0.0088	0.0052	*
Moon	17482-02-09 15:21 G	8106268.94	8106269.14	8106269.36	0.0088	0.0051	
Earth	17482-02-09 18:43 G	8106269.09	8106269.28	8106269.51	0.0088	0.0053	*
Earth	17483-02-12 06:28 G	8106636.58	8106636.77	8106636.98	0.0088	0.0056	
Moon	17483-02-12 09:36 G	8106636.72	8106636.90	8106637.12	0.0088	0.0057	*
Moon	17484-02-14 15:36 G	8107003.98	8107004.15	8107004.37	0.0088	0.0058	
Earth	17484-02-14 18:00 G	8107004.08	8107004.25	8107004.47	0.0088	0.0059	*
Earth	17485-02-16 06:00 G	8107371.57	8107371.75	8107371.95	0.0088	0.0061	
Moon	17485-02-16 07:26 G	8107371.64	8107371.81	8107372.03	0.0088	0.0062	*
Earth	17486-02-18 17:31 G	8107739.07	8107739.23	8107739.43	0.0088	0.0064	
Moon	17486-02-18 17:16 G	8107739.07	8107739.22	8107739.43	0.0088	0.0063	*
Mars	17486-12-29 05:45 G	8108052.61	8108052.74	8108052.94	0.0088	0.0076	
Moon	17487-02-21 04:33 G	8108106.52	8108106.69	8108106.87	0.0088	0.0067	
Earth	17487-02-21 05:31 G	8108106.57	8108106.73	8108106.92	0.0088	0.0066	*
Earth	17488-02-23 18:00 G	8108474.08	8108474.25	8108474.41	0.0088	0.0068	
Moon	17488-02-23 19:26 G	8108474.16	8108474.31	8108474.48	0.0088	0.0068	*
Mars	17488-11-23 06:57 G	8108747.48	8108747.79	8108748.12	0.0088	0.0010	
Moon	17489-02-25 02:09 G	8108841.46	8108841.59	8108841.77	0.0088	0.0072	
Earth	17489-02-25 05:31 G	8108841.60	8108841.73	8108841.91	0.0088	0.0070	*
Earth	17490-02-27 17:31 G	8109209.10	8109209.23	8109209.40	0.0088	0.0072	
Moon	17490-02-27 20:52 G	8109209.24	8109209.37	8109209.54	0.0088	0.0072	*
Moon	17491-03-02 02:09 G	8109576.47	8109576.59	8109576.75	0.0088	0.0075	

Earth	17491-03-02 05:45 G	8109576.63	8109576.74	8109576.91	0.0088	0.0075 *
Earth	17492-03-03 17:45 G	8109944.14	8109944.24	8109944.40	0.0088	0.0077
Moon	17492-03-03 21:21 G	8109944.28	8109944.39	8109944.55	0.0088	0.0076 *
Moon	17493-03-06 04:19 G	8110311.57	8110311.68	8110311.80	0.0088	0.0078
Earth	17493-03-06 06:28 G	8110311.66	8110311.77	8110311.90	0.0088	0.0078 *
Earth	17494-03-08 18:14 G	8110679.18	8110679.26	8110679.40	0.0089	0.0080
Moon	17494-03-08 20:38 G	8110679.26	8110679.36	8110679.48	0.0089	0.0080 *
Earth	17495-03-11 06:57 G	8111046.70	8111046.79	8111046.90	0.0089	0.0081
Moon	17495-03-11 06:28 G	8111046.70	8111046.77	8111046.89	0.0089	0.0082 *
Moon	17496-03-12 17:45 G	8111414.18	8111414.24	8111414.37	0.0089	0.0083
Earth	17496-03-12 18:57 G	8111414.22	8111414.29	8111414.41	0.0089	0.0083 *
Earth	17497-03-15 07:26 G	8111781.75	8111781.81	8111781.91	0.0089	0.0084
Moon	17497-03-15 09:21 G	8111781.82	8111781.89	8111781.99	0.0089	0.0083 *
Moon	17498-03-17 16:19 G	8112149.13	8112149.18	8112149.28	0.0089	0.0085
Earth	17498-03-17 19:55 G	8112149.27	8112149.33	8112149.42	0.0089	0.0085 *
Earth	17499-03-20 08:24 G	8112516.80	8112516.85	8112516.92	0.0089	0.0086
Moon	17499-03-20 11:16 G	8112516.93	8112516.97	8112517.07	0.0089	0.0086
Moon	17500-03-22 17:31 G	8112884.21	8112884.23	8112884.26	0.0089	0.0088
Earth	17500-03-22 20:52 G	8112884.34	8112884.37	8112884.44	0.0089	0.0087
Earth	17501-03-25 09:21 G	8113251.88	8113251.89	8113251.95	0.0089	0.0088
Moon	17501-03-25 12:43 G	8113252.00	8113252.03	8113252.11	0.0089	0.0087
Earth	17502-03-27 22:04 G	8113619.42	8113619.42	8113619.47	0.0089	0.0089
Moon	17503-03-30 12:57 G	8113987.01	8113987.04	8113987.12	0.0089	0.0087
Moon	17505-04-03 11:45 G	8114721.98	8114721.99	8114722.06	0.0089	0.0088
Moon	17507-04-08 11:02 G	8115456.95	8115456.96	8115457.02	0.0089	0.0088
Moon	17509-04-12 11:45 G	8116191.96	8116191.99	8116192.08	0.0089	0.0087
Earth	17510-04-15 04:48 G	8116559.70	8116559.70	8116559.72	0.0089	0.0089
Venus	17510-12-19 06:00 G	8116807.71	8116807.75	8116807.82	0.0089	0.0086
Moon	17511-04-17 14:38 G	8116927.07	8116927.11	8116927.20	0.0089	0.0086
Earth	17511-04-17 17:45 G	8116927.23	8116927.24	8116927.28	0.0089	0.0089



Venus	17511-08-01 19:12 G	8117033.17	8117033.30	8117033.46	0.0089	0.0066
Venus	17512-03-14 08:24 G	8117258.68	8117258.85	8117259.06	0.0089	0.0046
Earth	17512-04-19 06:14 G	8117294.75	8117294.76	8117294.84	0.0089	0.0088
Venus	17512-10-25 21:50 G	8117484.21	8117484.41	8117484.63	0.0089	0.0026
Moon	17513-04-21 19:26 G	8117662.24	8117662.31	8117662.39	0.0089	0.0084
Earth	17513-04-21 19:26 G	8117662.29	8117662.31	8117662.40	0.0089	0.0087 *
Venus	17513-06-08 11:16 G	8117709.75	8117709.97	8117710.19	0.0089	0.0005
Venus	17514-01-20 00:28 G	8117935.31	8117935.52	8117935.74	0.0089	0.0015
Earth	17514-04-24 08:38 G	8118029.82	8118029.86	8118029.95	0.0089	0.0086
Moon	17514-04-24 08:52 G	8118029.85	8118029.87	8118029.91	0.0089	0.0089 *
Venus	17514-09-02 13:40 G	8118160.88	8118161.07	8118161.28	0.0089	0.0036
Venus	17515-04-16 02:38 G	8118386.46	8118386.61	8118386.80	0.0089	0.0056
Earth	17515-04-26 21:50 G	8118397.36	8118397.41	8118397.52	0.0089	0.0085
Moon	17515-04-26 23:45 G	8118397.40	8118397.49	8118397.60	0.0089	0.0082 *
Venus	17515-11-27 15:50 G	8118612.07	8118612.16	8118612.29	0.0089	0.0076
Moon	17516-04-28 08:38 G	8118764.81	8118764.86	8118764.94	0.0089	0.0086
Earth	17516-04-28 11:31 G	8118764.91	8118764.98	8118765.08	0.0089	0.0084 *
Earth	17517-05-01 00:28 G	8119132.44	8119132.52	8119132.64	0.0089	0.0082
Moon	17517-05-01 03:50 G	8119132.54	8119132.66	8119132.78	0.0089	0.0079 *
Mercury	17517-06-11 09:50 G	8119173.87	8119173.91	8119173.98	0.0089	0.0084
Mercury	17517-09-07 12:28 G	8119261.94	8119262.02	8119262.10	0.0089	0.0076
Mercury	17517-12-04 14:38 G	8119350.01	8119350.11	8119350.22	0.0089	0.0067
Mercury	17518-03-02 16:48 G	8119438.09	8119438.20	8119438.33	0.0089	0.0059
Moon	17518-05-03 10:04 G	8119499.85	8119499.92	8119500.01	0.0089	0.0085
Earth	17518-05-03 13:55 G	8119499.98	8119500.08	8119500.20	0.0089	0.0081 *
Mercury	17518-05-29 19:12 G	8119526.17	8119526.30	8119526.44	0.0089	0.0051
Mercury	17518-08-25 21:21 G	8119614.26	8119614.39	8119614.54	0.0089	0.0043
Mercury	17518-11-21 23:31 G	8119702.34	8119702.48	8119702.64	0.0089	0.0035
Mercury	17519-02-18 01:55 G	8119790.43	8119790.58	8119790.74	0.0089	0.0026
Earth	17519-05-06 02:38 G	8119867.52	8119867.61	8119867.75	0.0089	0.0080

Moon	17519-05-06 06:28 G	8119867.64	8119867.77	8119867.92	0.0089	0.0076 *
Mercury	17519-05-17 04:04 G	8119878.52	8119878.67	8119878.83	0.0089	0.0018
Mercury	17519-08-13 06:14 G	8119966.61	8119966.76	8119966.92	0.0089	0.0010
Mercury	17519-11-09 08:38 G	8120054.70	8120054.86	8120055.02	0.0089	0.0002
Mercury	17520-02-05 10:48 G	8120142.79	8120142.95	8120143.11	0.0089	0.0007
Mercury	17520-05-03 12:57 G	8120230.88	8120231.04	8120231.19	0.0089	0.0015
Moon	17520-05-07 12:43 G	8120234.95	8120235.03	8120235.16	0.0089	0.0082
Earth	17520-05-07 15:50 G	8120235.06	8120235.16	8120235.31	0.0089	0.0078 *
Mercury	17520-07-30 15:07 G	8120318.98	8120319.13	8120319.28	0.0089	0.0023
Mercury	17520-10-26 17:02 G	8120407.07	8120407.21	8120407.36	0.0089	0.0031
Mercury	17521-01-22 19:12 G	8120495.16	8120495.30	8120495.45	0.0089	0.0039
Mercury	17521-04-20 21:21 G	8120583.26	8120583.39	8120583.53	0.0089	0.0046
Earth	17521-05-10 05:02 G	8120602.59	8120602.71	8120602.86	0.0089	0.0076
Moon	17521-05-10 07:26 G	8120602.68	8120602.81	8120602.99	0.0089	0.0072 *
Mercury	17521-07-17 23:16 G	8120671.36	8120671.47	8120671.60	0.0089	0.0055
Mercury	17521-10-14 01:26 G	8120759.46	8120759.56	8120759.68	0.0089	0.0062
Mercury	17522-01-10 03:21 G	8120847.56	8120847.64	8120847.75	0.0089	0.0071
Mercury	17522-04-08 05:45 G	8120935.67	8120935.74	8120935.82	0.0089	0.0078
Moon	17522-05-12 17:16 G	8120970.11	8120970.22	8120970.36	0.0089	0.0078
Earth	17522-05-12 18:14 G	8120970.13	8120970.26	8120970.42	0.0089	0.0074 *
Mercury	17522-07-05 07:40 G	8121023.79	8121023.82	8121023.87	0.0089	0.0086
Earth	17523-05-15 07:26 G	8121337.67	8121337.81	8121337.98	0.0089	0.0072
Moon	17523-05-15 07:40 G	8121337.67	8121337.82	8121338.02	0.0089	0.0068 *
Earth	17524-05-16 20:24 G	8121705.21	8121705.35	8121705.54	0.0089	0.0070
Moon	17524-05-16 22:04 G	8121705.28	8121705.42	8121705.56	0.0089	0.0074 *
Moon	17525-05-19 06:57 G	8122072.63	8122072.79	8122073.01	0.0089	0.0064
Earth	17525-05-19 09:36 G	8122072.75	8122072.90	8122073.09	0.0089	0.0068 *
Earth	17526-05-21 23:02 G	8122440.30	8122440.46	8122440.65	0.0089	0.0065
Moon	17526-05-22 01:26 G	8122440.43	8122440.56	8122440.75	0.0089	0.0070 *
Moon	17527-05-24 08:52 G	8122807.68	8122807.87	8122808.08	0.0089	0.0058

Earth	17527-05-24 12:14 G	8122807.85	8122808.01	8122808.22	0.0089	0.0063 *
Earth	17528-05-26 01:40 G	8123175.39	8123175.57	8123175.78	0.0089	0.0060
Moon	17528-05-26 05:31 G	8123175.55	8123175.73	8123175.91	0.0089	0.0064 *
Moon	17529-05-28 11:31 G	8123542.80	8123542.98	8123543.21	0.0089	0.0053
Earth	17529-05-28 15:21 G	8123542.94	8123543.14	8123543.34	0.0089	0.0057 *
Earth	17530-05-31 04:33 G	8123910.48	8123910.69	8123910.90	0.0089	0.0054
Moon	17530-05-31 06:57 G	8123910.61	8123910.79	8123911.01	0.0089	0.0059 *
Moon	17531-06-02 15:50 G	8124277.97	8124278.16	8124278.40	0.0089	0.0048
Earth	17531-06-02 17:16 G	8124278.03	8124278.22	8124278.45	0.0089	0.0052 *
Earth	17532-06-04 06:14 G	8124645.57	8124645.76	8124646.00	0.0090	0.0049
Moon	17532-06-04 07:12 G	8124645.60	8124645.80	8124646.04	0.0090	0.0053 *
Earth	17533-06-06 19:12 G	8125013.10	8125013.30	8125013.55	0.0090	0.0046
Moon	17533-06-06 20:24 G	8125013.13	8125013.35	8125013.58	0.0090	0.0041 *
Moon	17534-06-09 06:14 G	8125380.55	8125380.76	8125381.01	0.0090	0.0047
Earth	17534-06-09 08:24 G	8125380.64	8125380.85	8125381.10	0.0090	0.0043 *
Earth	17535-06-11 21:21 G	8125748.18	8125748.39	8125748.64	0.0090	0.0040
Moon	17535-06-12 00:00 G	8125748.28	8125748.50	8125748.74	0.0090	0.0035 *
Moon	17536-06-13 06:57 G	8126115.57	8126115.79	8126116.03	0.0090	0.0041
Earth	17536-06-13 10:33 G	8126115.71	8126115.94	8126116.18	0.0090	0.0036 *
Earth	17537-06-15 23:31 G	8126483.24	8126483.48	8126483.73	0.0090	0.0033
Moon	17537-06-16 02:52 G	8126483.39	8126483.62	8126483.88	0.0090	0.0029 *
Moon	17538-06-18 09:07 G	8126850.65	8126850.88	8126851.12	0.0090	0.0034
Earth	17538-06-18 12:28 G	8126850.79	8126851.02	8126851.28	0.0090	0.0030 *
Earth	17539-06-21 01:26 G	8127218.32	8127218.56	8127218.82	0.0090	0.0026
Moon	17539-06-21 04:19 G	8127218.44	8127218.68	8127218.95	0.0090	0.0022 *
Moon	17540-06-22 12:57 G	8127585.81	8127586.04	8127586.28	0.0090	0.0027
Earth	17540-06-22 14:38 G	8127585.87	8127586.11	8127586.37	0.0090	0.0023 *
Earth	17541-06-25 03:36 G	8127953.40	8127953.65	8127953.91	0.0090	0.0019
Moon	17541-06-25 04:48 G	8127953.44	8127953.70	8127953.97	0.0090	0.0015 *
Earth	17542-06-27 16:33 G	8128320.94	8128321.19	8128321.45	0.0090	0.0016

Moon	17542-06-27 17:02 G	8128320.97	8128321.21	8128321.46	0.0090	0.0020	*
Moon	17543-06-30 03:50 G	8128688.40	8128688.66	8128688.93	0.0090	0.0008	
Earth	17543-06-30 05:31 G	8128688.48	8128688.73	8128688.99	0.0090	0.0013	*
Earth	17544-07-01 18:00 G	8129056.00	8129056.25	8129056.51	0.0090	0.0009	
Moon	17544-07-01 20:24 G	8129056.10	8129056.35	8129056.60	0.0090	0.0013	*
Moon	17545-07-04 03:21 G	8129423.38	8129423.64	8129423.90	0.0090	0.0002	
Earth	17545-07-04 06:57 G	8129423.53	8129423.79	8129424.05	0.0090	0.0006	*
Earth	17546-07-06 19:26 G	8129791.06	8129791.31	8129791.57	0.0090	0.0002	
Moon	17546-07-06 22:48 G	8129791.20	8129791.45	8129791.71	0.0090	0.0007	*
Moon	17547-07-09 04:33 G	8130158.44	8130158.69	8130158.95	0.0090	0.0005	
Earth	17547-07-09 08:09 G	8130158.58	8130158.84	8130159.10	0.0090	0.0001	*
Earth	17548-07-10 20:38 G	8130526.10	8130526.36	8130526.62	0.0089	0.0005	
Moon	17548-07-10 23:45 G	8130526.23	8130526.49	8130526.75	0.0089	0.0001	*
Moon	17549-07-13 07:12 G	8130893.55	8130893.80	8130894.05	0.0089	0.0012	
Earth	17549-07-13 09:07 G	8130893.63	8130893.88	8130894.14	0.0089	0.0008	*
Earth	17550-07-15 21:36 G	8131261.15	8131261.40	8131261.66	0.0089	0.0012	
Moon	17550-07-15 23:02 G	8131261.20	8131261.46	8131261.73	0.0089	0.0009	*
Earth	17551-07-18 10:04 G	8131628.67	8131628.92	8131629.18	0.0089	0.0015	
Moon	17551-07-18 10:33 G	8131628.70	8131628.94	8131629.18	0.0089	0.0019	*
Moon	17552-07-19 21:07 G	8131996.12	8131996.38	8131996.65	0.0089	0.0015	
Earth	17552-07-19 22:33 G	8131996.19	8131996.44	8131996.70	0.0089	0.0019	*
Earth	17553-07-22 11:02 G	8132363.72	8132363.96	8132364.22	0.0089	0.0022	
Moon	17553-07-22 12:57 G	8132363.81	8132364.04	8132364.29	0.0089	0.0025	*
Moon	17554-07-24 20:09 G	8132731.09	8132731.34	8132731.60	0.0089	0.0022	
Earth	17554-07-24 23:31 G	8132731.24	8132731.48	8132731.74	0.0089	0.0025	*
Earth	17555-07-27 11:45 G	8133098.75	8133098.99	8133099.24	0.0089	0.0028	
Moon	17555-07-27 15:07 G	8133098.90	8133099.13	8133099.38	0.0089	0.0032	*
Moon	17556-07-28 20:09 G	8133466.12	8133466.34	8133466.60	0.0089	0.0030	
Earth	17556-07-29 00:14 G	8133466.27	8133466.51	8133466.75	0.0089	0.0032	*
Earth	17557-07-31 12:14 G	8133833.78	8133834.01	8133834.25	0.0089	0.0035	

Moon	17557-07-31 15:21 G	8133833.91	8133834.14	8133834.38	0.0089	0.0038 *
Moon	17558-08-02 22:04 G	8134201.20	8134201.42	8134201.66	0.0089	0.0035
Earth	17558-08-03 00:28 G	8134201.29	8134201.52	8134201.75	0.0089	0.0038 *
Earth	17559-08-05 12:28 G	8134568.79	8134569.02	8134569.24	0.0089	0.0041
Moon	17559-08-05 13:26 G	8134568.85	8134569.06	8134569.32	0.0089	0.0044 *
Earth	17560-08-07 00:14 G	8134936.29	8134936.51	8134936.73	0.0089	0.0044
Moon	17560-08-07 00:00 G	8134936.30	8134936.50	8134936.74	0.0089	0.0042 *
Moon	17561-08-09 10:19 G	8135303.73	8135303.93	8135304.18	0.0089	0.0050
Earth	17561-08-09 12:00 G	8135303.79	8135304.00	8135304.23	0.0089	0.0047 *
Earth	17562-08-11 23:45 G	8135671.29	8135671.49	8135671.72	0.0089	0.0050
Moon	17562-08-12 01:55 G	8135671.38	8135671.58	8135671.80	0.0089	0.0048 *
Moon	17563-08-14 07:55 G	8136038.65	8136038.83	8136039.06	0.0089	0.0056
Earth	17563-08-14 11:31 G	8136038.79	8136038.98	8136039.20	0.0089	0.0052 *
Earth	17564-08-15 23:02 G	8136406.29	8136406.46	8136406.69	0.0089	0.0056
Moon	17564-08-16 02:24 G	8136406.42	8136406.60	8136406.83	0.0089	0.0054 *
Moon	17565-08-18 07:26 G	8136773.64	8136773.81	8136774.02	0.0089	0.0059
Earth	17565-08-18 11:16 G	8136773.79	8136773.97	8136774.18	0.0089	0.0057 *
Earth	17566-08-20 22:48 G	8137141.28	8137141.45	8137141.66	0.0089	0.0060
Moon	17566-08-21 02:09 G	8137141.40	8137141.59	8137141.80	0.0089	0.0058 *
Moon	17567-08-23 08:38 G	8137508.69	8137508.86	8137509.04	0.0089	0.0064
Earth	17567-08-23 10:33 G	8137508.78	8137508.94	8137509.14	0.0089	0.0062 *
Earth	17568-08-24 22:04 G	8137876.26	8137876.42	8137876.61	0.0089	0.0064
Moon	17568-08-24 23:31 G	8137876.31	8137876.48	8137876.68	0.0089	0.0063 *
Mars	17568-09-10 09:21 G	8137892.67	8137892.89	8137893.16	0.0089	0.0054
Earth	17569-08-27 09:36 G	8138243.74	8138243.90	8138244.08	0.0089	0.0066
Moon	17569-08-27 10:04 G	8138243.77	8138243.92	8138244.08	0.0089	0.0068 *
Mars	17570-08-05 22:48 G	8138587.18	8138587.45	8138587.77	0.0089	0.0031
Moon	17570-08-29 19:26 G	8138611.16	8138611.31	8138611.51	0.0089	0.0067
Earth	17570-08-29 21:07 G	8138611.23	8138611.38	8138611.55	0.0089	0.0068 *
Earth	17571-09-01 08:09 G	8138978.70	8138978.84	8138979.01	0.0089	0.0070

Moon	17571-09-01 10:33 G	8138978.80	8138978.94	8138979.09	0.0089	0.0071	*
Moon	17572-09-02 16:04 G	8139346.02	8139346.17	8139346.34	0.0089	0.0070	
Earth	17572-09-02 19:26 G	8139346.18	8139346.31	8139346.47	0.0089	0.0072	*
Earth	17573-09-05 06:28 G	8139713.65	8139713.77	8139713.93	0.0089	0.0074	
Moon	17573-09-05 09:50 G	8139713.79	8139713.91	8139714.07	0.0089	0.0075	*
Moon	17574-09-07 13:55 G	8140080.97	8140081.08	8140081.24	0.0089	0.0075	
Earth	17574-09-07 17:31 G	8140081.12	8140081.23	8140081.39	0.0089	0.0076	*
Earth	17575-09-10 04:48 G	8140448.59	8140448.70	8140448.84	0.0089	0.0077	
Moon	17575-09-10 07:40 G	8140448.72	8140448.82	8140448.96	0.0089	0.0078	*
Moon	17576-09-11 13:40 G	8140815.97	8140816.07	8140816.20	0.0089	0.0078	
Earth	17576-09-11 16:19 G	8140816.06	8140816.18	8140816.30	0.0089	0.0078	*
Earth	17577-09-14 02:38 G	8141183.53	8141183.61	8141183.75	0.0089	0.0080	
Moon	17577-09-14 04:04 G	8141183.58	8141183.67	8141183.81	0.0089	0.0080	*
Earth	17578-09-16 13:55 G	8141551.00	8141551.08	8141551.21	0.0089	0.0081	
Moon	17578-09-16 14:38 G	8141551.02	8141551.11	8141551.23	0.0089	0.0080	*
Moon	17579-09-18 23:45 G	8141918.41	8141918.49	8141918.60	0.0089	0.0082	
Earth	17579-09-19 00:57 G	8141918.46	8141918.54	8141918.66	0.0089	0.0082	*
Earth	17580-09-20 11:45 G	8142285.93	8142285.99	8142286.11	0.0089	0.0083	
Moon	17580-09-20 14:09 G	8142286.03	8142286.09	8142286.20	0.0089	0.0083	*
Moon	17581-09-22 19:12 G	8142653.25	8142653.30	8142653.41	0.0089	0.0085	
Earth	17581-09-22 22:33 G	8142653.39	8142653.44	8142653.56	0.0089	0.0084	*
Earth	17582-09-25 09:36 G	8143020.84	8143020.90	8143021.00	0.0089	0.0084	
Moon	17582-09-25 13:12 G	8143020.98	8143021.05	8143021.14	0.0089	0.0084	*
Moon	17583-09-27 16:33 G	8143388.14	8143388.19	8143388.29	0.0089	0.0085	
Earth	17583-09-27 20:09 G	8143388.29	8143388.34	8143388.44	0.0089	0.0085	*
Earth	17584-09-29 06:57 G	8143755.74	8143755.79	8143755.88	0.0089	0.0085	
Moon	17584-09-29 09:21 G	8143755.84	8143755.89	8143756.00	0.0089	0.0085	*
Moon	17585-10-01 15:50 G	8144123.10	8144123.16	8144123.24	0.0089	0.0085	
Earth	17585-10-01 18:00 G	8144123.18	8144123.25	8144123.32	0.0089	0.0085	*
Earth	17586-10-04 03:50 G	8144490.63	8144490.66	8144490.76	0.0088	0.0086	

Moon	17586-10-04 05:02 G	8144490.67	8144490.71	8144490.80	0.0088	0.0086	*
Earth	17587-10-06 14:24 G	8144858.06	8144858.10	8144858.20	0.0088	0.0086	
Moon	17587-10-06 15:36 G	8144858.11	8144858.15	8144858.22	0.0088	0.0086	*
Moon	17588-10-07 23:16 G	8145225.43	8145225.47	8145225.57	0.0088	0.0086	
Earth	17588-10-08 00:57 G	8145225.51	8145225.54	8145225.64	0.0088	0.0086	*
Earth	17589-10-10 12:14 G	8145592.95	8145593.01	8145593.08	0.0088	0.0085	
Moon	17589-10-10 14:24 G	8145593.05	8145593.10	8145593.20	0.0088	0.0085	*
Moon	17590-10-12 18:43 G	8145960.23	8145960.28	8145960.38	0.0088	0.0085	
Earth	17590-10-12 22:33 G	8145960.39	8145960.44	8145960.53	0.0088	0.0085	
Earth	17591-10-15 08:52 G	8146327.82	8146327.87	8146327.97	0.0088	0.0084	
Moon	17591-10-15 12:14 G	8146327.96	8146328.01	8146328.12	0.0088	0.0084	*
Venus	17592-06-23 16:48 G	8146580.13	8146580.20	8146580.32	0.0088	0.0080	
Moon	17592-10-16 16:04 G	8146695.12	8146695.17	8146695.27	0.0088	0.0085	
Earth	17592-10-16 19:40 G	8146695.26	8146695.32	8146695.42	0.0088	0.0083	*
Venus	17593-02-04 06:00 G	8146805.60	8146805.75	8146805.92	0.0088	0.0060	
Venus	17593-09-17 18:43 G	8147031.10	8147031.28	8147031.49	0.0088	0.0040	
Earth	17593-10-19 06:14 G	8147062.68	8147062.76	8147062.86	0.0088	0.0083	
Moon	17593-10-19 08:09 G	8147062.78	8147062.84	8147062.97	0.0088	0.0083	*
Venus	17594-05-01 07:40 G	8147256.61	8147256.82	8147257.04	0.0088	0.0020	
Moon	17594-10-21 14:38 G	8147430.06	8147430.11	8147430.22	0.0088	0.0083	
Earth	17594-10-21 16:48 G	8147430.11	8147430.20	8147430.30	0.0088	0.0082	*
Venus	17594-12-12 20:24 G	8147482.14	8147482.35	8147482.58	0.0088	0.0002	
Venus	17595-07-26 09:07 G	8147707.68	8147707.88	8147708.11	0.0088	0.0020	
Earth	17595-10-24 03:07 G	8147797.53	8147797.63	8147797.74	0.0088	0.0081	
Moon	17595-10-24 03:21 G	8147797.55	8147797.64	8147797.77	0.0088	0.0080	*
Venus	17596-03-07 22:04 G	8147933.23	8147933.42	8147933.62	0.0088	0.0039	
Venus	17596-10-19 10:33 G	8148158.79	8148158.94	8148159.12	0.0088	0.0058	
Earth	17596-10-25 13:26 G	8148164.96	8148165.06	8148165.17	0.0088	0.0080	
Moon	17596-10-25 14:24 G	8148165.02	8148165.10	8148165.22	0.0088	0.0080	*
Venus	17597-06-01 23:16 G	8148384.38	8148384.47	8148384.58	0.0088	0.0078	

Moon	17597-10-27 21:36 G	8148532.29	8148532.40	8148532.54	0.0088	0.0078
Earth	17597-10-27 23:31 G	8148532.38	8148532.48	8148532.61	0.0088	0.0079 *
Mercury	17598-09-12 09:50 G	8148851.91	8148851.91	8148851.91	0.0088	0.0088
Earth	17598-10-30 09:36 G	8148899.80	8148899.90	8148900.04	0.0088	0.0077
Moon	17598-10-30 12:57 G	8148899.93	8148900.04	8148900.15	0.0088	0.0079 *
Mercury	17598-12-09 11:16 G	8148939.93	8148939.97	8148940.05	0.0088	0.0082
Mercury	17599-03-07 13:40 G	8149027.99	8149028.07	8149028.16	0.0088	0.0073
Mercury	17599-06-03 15:21 G	8149116.06	8149116.14	8149116.26	0.0088	0.0066
Mercury	17599-08-30 17:31 G	8149204.12	8149204.23	8149204.36	0.0088	0.0059
Moon	17599-11-01 16:33 G	8149267.07	8149267.19	8149267.33	0.0088	0.0076
Earth	17599-11-01 19:40 G	8149267.22	8149267.32	8149267.48	0.0088	0.0076 *
Mercury	17599-11-26 19:26 G	8149292.20	8149292.31	8149292.45	0.0088	0.0051
Mercury	17600-02-22 21:36 G	8149380.27	8149380.40	8149380.54	0.0088	0.0043
Mercury	17600-05-20 23:31 G	8149468.35	8149468.48	8149468.63	0.0088	0.0036
Mercury	17600-08-17 01:40 G	8149556.43	8149556.57	8149556.72	0.0088	0.0028
Earth	17600-11-03 06:14 G	8149634.64	8149634.76	8149634.91	0.0088	0.0074
Moon	17600-11-03 09:21 G	8149634.79	8149634.89	8149635.05	0.0088	0.0076 *
Mercury	17600-11-13 03:50 G	8149644.51	8149644.66	8149644.82	0.0088	0.0020
Mercury	17601-02-09 06:00 G	8149732.59	8149732.75	8149732.90	0.0088	0.0013
Mercury	17601-05-08 07:55 G	8149820.68	8149820.83	8149820.99	0.0088	0.0006
Mercury	17601-08-04 10:04 G	8149908.76	8149908.92	8149909.08	0.0088	0.0003
Mercury	17601-10-31 12:14 G	8149996.85	8149997.01	8149997.17	0.0088	0.0011
Moon	17601-11-05 13:12 G	8150001.92	8150002.05	8150002.21	0.0088	0.0071
Earth	17601-11-05 16:04 G	8150002.06	8150002.17	8150002.35	0.0088	0.0073 *
Mercury	17602-01-27 14:24 G	8150084.94	8150085.10	8150085.25	0.0088	0.0018
Mercury	17602-04-25 16:19 G	8150173.04	8150173.18	8150173.34	0.0088	0.0026
Mercury	17602-07-22 18:28 G	8150261.13	8150261.27	8150261.42	0.0088	0.0034
Mercury	17602-10-18 20:38 G	8150349.22	8150349.36	8150349.50	0.0088	0.0042
Earth	17602-11-08 02:38 G	8150369.48	8150369.61	8150369.78	0.0088	0.0071
Moon	17602-11-08 04:33 G	8150369.57	8150369.69	8150369.87	0.0088	0.0072 *



Mercury	17603-01-14 22:33 G	8150437.32	8150437.44	8150437.58	0.0088	0.0050
Mercury	17603-04-13 00:43 G	8150525.42	8150525.53	8150525.66	0.0088	0.0058
Mercury	17603-07-10 02:52 G	8150613.53	8150613.62	8150613.74	0.0088	0.0066
Mercury	17603-10-06 05:02 G	8150701.64	8150701.71	8150701.81	0.0088	0.0074
Moon	17603-11-10 11:31 G	8150736.85	8150736.98	8150737.17	0.0088	0.0068
Earth	17603-11-10 12:57 G	8150736.91	8150737.04	8150737.22	0.0088	0.0069 *
Mercury	17604-01-02 07:12 G	8150789.76	8150789.80	8150789.87	0.0088	0.0082
Jupiter	17604-01-29 22:33 G	8150816.90	8150817.44	8150818.03	0.0088	0.0009
Earth	17604-11-11 23:31 G	8151104.33	8151104.48	8151104.66	0.0088	0.0067
Moon	17604-11-11 23:45 G	8151104.33	8151104.49	8151104.66	0.0088	0.0068 *
Earth	17605-11-14 09:50 G	8151471.75	8151471.91	8151472.09	0.0088	0.0065
Moon	17605-11-14 11:31 G	8151471.82	8151471.98	8151472.16	0.0088	0.0064 *
Moon	17606-11-16 17:45 G	8151839.07	8151839.24	8151839.43	0.0088	0.0064
Earth	17606-11-16 19:55 G	8151839.17	8151839.33	8151839.53	0.0088	0.0063 *
Earth	17607-11-19 06:00 G	8152206.59	8152206.75	8152206.96	0.0088	0.0061
Moon	17607-11-19 09:21 G	8152206.72	8152206.89	8152207.09	0.0088	0.0059 *
Moon	17608-11-20 12:43 G	8152573.86	8152574.03	8152574.24	0.0088	0.0060
Earth	17608-11-20 16:19 G	8152574.01	8152574.18	8152574.39	0.0088	0.0059 *
Earth	17609-11-23 02:38 G	8152941.42	8152941.61	8152941.82	0.0088	0.0056
Moon	17609-11-23 06:00 G	8152941.56	8152941.75	8152941.97	0.0088	0.0054 *
Moon	17610-11-25 09:36 G	8153308.73	8153308.90	8153309.11	0.0088	0.0056
Earth	17610-11-25 12:43 G	8153308.85	8153309.03	8153309.25	0.0088	0.0054 *
Earth	17611-11-27 23:16 G	8153676.26	8153676.47	8153676.68	0.0088	0.0051
Moon	17611-11-28 00:28 G	8153676.32	8153676.52	8153676.76	0.0088	0.0050 *
Moon	17612-11-29 08:09 G	8154043.66	8154043.84	8154044.06	0.0088	0.0051
Earth	17612-11-29 09:07 G	8154043.68	8154043.88	8154044.11	0.0088	0.0049 *
Moon	17613-12-01 18:57 G	8154411.07	8154411.29	8154411.53	0.0088	0.0044
Earth	17613-12-01 19:40 G	8154411.11	8154411.32	8154411.54	0.0088	0.0046 *
Earth	17614-12-04 05:31 G	8154778.52	8154778.73	8154778.97	0.0088	0.0044
Moon	17614-12-04 07:40 G	8154778.62	8154778.82	8154779.05	0.0088	0.0045 *

Moon	17615-12-06 13:26 G	8155145.84	8155146.06	8155146.31	0.0088	0.0039
Earth	17615-12-06 16:04 G	8155145.96	8155146.17	8155146.41	0.0088	0.0041 *
Earth	17616-12-08 02:24 G	8155513.39	8155513.60	8155513.85	0.0088	0.0038
Moon	17616-12-08 05:45 G	8155513.54	8155513.74	8155513.99	0.0088	0.0041 *
Moon	17617-12-10 09:21 G	8155880.67	8155880.89	8155881.14	0.0088	0.0034
Earth	17617-12-10 12:57 G	8155880.82	8155881.04	8155881.29	0.0088	0.0035 *
Earth	17618-12-12 23:31 G	8156248.25	8156248.48	8156248.72	0.0088	0.0032
Moon	17618-12-13 02:38 G	8156248.38	8156248.61	8156248.86	0.0088	0.0035 *
Moon	17619-12-15 07:12 G	8156615.57	8156615.80	8156616.05	0.0088	0.0027
Earth	17619-12-15 10:04 G	8156615.68	8156615.92	8156616.17	0.0088	0.0029 *
Earth	17620-12-16 20:24 G	8156983.11	8156983.35	8156983.60	0.0088	0.0026
Moon	17620-12-16 21:36 G	8156983.16	8156983.40	8156983.66	0.0088	0.0028 *
Moon	17621-12-19 06:14 G	8157350.53	8157350.76	8157351.01	0.0088	0.0021
Earth	17621-12-19 06:43 G	8157350.54	8157350.78	8157351.04	0.0088	0.0023 *
Moon	17622-12-21 16:04 G	8157717.93	8157718.17	8157718.44	0.0088	0.0023
Earth	17622-12-21 17:16 G	8157717.97	8157718.22	8157718.47	0.0088	0.0020 *
Earth	17623-12-24 03:36 G	8158085.41	8158085.65	8158085.91	0.0088	0.0017
Moon	17623-12-24 06:00 G	8158085.51	8158085.75	8158086.01	0.0088	0.0015 *
Moon	17624-12-25 11:31 G	8158452.72	8158452.98	8158453.24	0.0088	0.0016
Earth	17624-12-25 14:24 G	8158452.85	8158453.10	8158453.36	0.0088	0.0014 *
Earth	17625-12-28 00:43 G	8158820.28	8158820.53	8158820.79	0.0088	0.0011
Moon	17625-12-28 04:19 G	8158820.43	8158820.68	8158820.94	0.0088	0.0008 *
Moon	17626-12-30 07:55 G	8159187.58	8159187.83	8159188.09	0.0088	0.0010
Earth	17626-12-30 11:31 G	8159187.72	8159187.98	8159188.24	0.0088	0.0007 *
Earth	17628-01-01 22:04 G	8159555.17	8159555.42	8159555.68	0.0088	0.0005
Moon	17628-01-02 01:26 G	8159555.30	8159555.56	8159555.82	0.0088	0.0001 *
Moon	17629-01-03 06:43 G	8159922.52	8159922.78	8159923.03	0.0088	0.0004
Earth	17629-01-03 09:07 G	8159922.62	8159922.88	8159923.14	0.0088	0.0001 *
Earth	17630-01-05 19:55 G	8160290.07	8160290.33	8160290.59	0.0088	0.0002
Moon	17630-01-05 20:52 G	8160290.10	8160290.37	8160290.64	0.0088	0.0005 *

Earth	17631-01-08 06:43 G	8160657.52	8160657.78	8160658.04	0.0088	0.0005
Moon	17631-01-08 06:28 G	8160657.53	8160657.77	8160658.02	0.0088	0.0003 *
Moon	17632-01-10 16:19 G	8161024.92	8161025.18	8161025.45	0.0088	0.0012
Earth	17632-01-10 17:31 G	8161024.98	8161025.23	8161025.50	0.0088	0.0009 *
Earth	17633-01-12 04:33 G	8161392.44	8161392.69	8161392.95	0.0088	0.0012
Moon	17633-01-12 07:12 G	8161392.55	8161392.80	8161393.05	0.0088	0.0009 *
Moon	17634-01-14 12:14 G	8161759.76	8161760.01	8161760.28	0.0088	0.0018
Earth	17634-01-14 15:21 G	8161759.89	8161760.14	8161760.40	0.0088	0.0015 *
Earth	17635-01-17 02:09 G	8162127.35	8162127.59	8162127.85	0.0088	0.0018
Moon	17635-01-17 06:00 G	8162127.50	8162127.75	8162128.01	0.0088	0.0014 *
Moon	17636-01-19 09:50 G	8162494.68	8162494.91	8162495.17	0.0088	0.0024
Earth	17636-01-19 13:26 G	8162494.81	8162495.06	8162495.31	0.0088	0.0021 *
Earth	17637-01-21 00:14 G	8162862.27	8162862.51	8162862.76	0.0088	0.0024
Moon	17637-01-21 03:36 G	8162862.39	8162862.65	8162862.90	0.0088	0.0020 *
Moon	17638-01-23 08:52 G	8163229.65	8163229.87	8163230.12	0.0088	0.0031
Earth	17638-01-23 11:16 G	8163229.73	8163229.97	8163230.23	0.0088	0.0027 *
Earth	17639-01-25 22:19 G	8163597.20	8163597.43	8163597.68	0.0088	0.0030
Moon	17639-01-25 23:02 G	8163597.22	8163597.46	8163597.73	0.0088	0.0027 *
Earth	17640-01-28 09:36 G	8163964.67	8163964.90	8163965.15	0.0088	0.0033
Moon	17640-01-28 09:21 G	8163964.68	8163964.89	8163965.14	0.0088	0.0037 *
Moon	17641-01-29 19:26 G	8164332.07	8164332.31	8164332.57	0.0088	0.0032
Earth	17641-01-29 20:52 G	8164332.15	8164332.37	8164332.62	0.0088	0.0036 *
Earth	17642-02-01 07:55 G	8164699.62	8164699.83	8164700.08	0.0088	0.0039
Moon	17642-02-01 10:48 G	8164699.74	8164699.95	8164700.18	0.0088	0.0042 *
Moon	17643-02-03 16:33 G	8165066.97	8165067.19	8165067.44	0.0088	0.0038
Earth	17643-02-03 19:26 G	8165067.11	8165067.31	8165067.56	0.0088	0.0042 *
Earth	17644-02-06 07:12 G	8165434.59	8165434.80	8165435.04	0.0088	0.0045
Moon	17644-02-06 11:16 G	8165434.75	8165434.97	8165435.18	0.0088	0.0049 *
Moon	17645-02-07 15:36 G	8165801.93	8165802.15	8165802.38	0.0088	0.0044
Earth	17645-02-07 18:43 G	8165802.07	8165802.28	8165802.51	0.0088	0.0047 *

Earth	17646-02-10 06:28 G	8166169.56	8166169.77	8166169.98	0.0088	0.0050
Moon	17646-02-10 09:07 G	8166169.69	8166169.88	8166170.11	0.0088	0.0054 *
Moon	17647-02-12 15:36 G	8166536.96	8166537.15	8166537.38	0.0088	0.0049
Earth	17647-02-12 17:45 G	8166537.05	8166537.24	8166537.46	0.0088	0.0052 *
Earth	17648-02-15 05:31 G	8166904.53	8166904.73	8166904.94	0.0088	0.0055
Moon	17648-02-15 06:00 G	8166904.56	8166904.75	8166904.97	0.0088	0.0058 *
Earth	17649-02-16 16:48 G	8167272.03	8167272.20	8167272.42	0.0088	0.0058
Moon	17649-02-16 17:02 G	8167272.03	8167272.21	8167272.42	0.0088	0.0054 *
Moon	17650-02-19 02:52 G	8167639.45	8167639.62	8167639.82	0.0088	0.0064
Earth	17650-02-19 04:33 G	8167639.52	8167639.69	8167639.90	0.0088	0.0060 *
Earth	17651-02-21 16:33 G	8168007.01	8168007.19	8168007.38	0.0088	0.0062
Moon	17651-02-21 18:43 G	8168007.12	8168007.28	8168007.50	0.0088	0.0059 *
Moon	17652-02-24 00:57 G	8168374.40	8168374.54	8168374.73	0.0088	0.0069
Earth	17652-02-24 04:33 G	8168374.52	8168374.69	8168374.87	0.0088	0.0064 *
Mars	17652-07-08 22:04 G	8168510.12	8168510.42	8168510.74	0.0088	0.0023
Earth	17653-02-25 15:50 G	8168742.01	8168742.16	8168742.35	0.0088	0.0066
Moon	17653-02-25 19:40 G	8168742.16	8168742.32	8168742.53	0.0088	0.0062 *
Moon	17654-02-28 00:43 G	8169109.41	8169109.53	8169109.70	0.0088	0.0073
Earth	17654-02-28 04:33 G	8169109.53	8169109.69	8169109.85	0.0088	0.0068 *
Mars	17654-06-03 21:07 G	8169205.18	8169205.38	8169205.63	0.0088	0.0063
Earth	17655-03-02 16:33 G	8169477.04	8169477.19	8169477.35	0.0088	0.0070
Moon	17655-03-02 19:26 G	8169477.15	8169477.31	8169477.51	0.0088	0.0066 *
Moon	17656-03-04 02:24 G	8169844.50	8169844.60	8169844.75	0.0088	0.0077
Earth	17656-03-04 04:33 G	8169844.56	8169844.69	8169844.86	0.0088	0.0072 *
Earth	17657-03-06 16:33 G	8170212.07	8170212.19	8170212.36	0.0088	0.0074
Moon	17657-03-06 17:16 G	8170212.08	8170212.22	8170212.41	0.0088	0.0070 *
Earth	17658-03-09 05:02 G	8170579.59	8170579.71	8170579.86	0.0088	0.0075
Moon	17658-03-09 04:48 G	8170579.61	8170579.70	8170579.83	0.0088	0.0080 *
Moon	17659-03-11 15:36 G	8170947.01	8170947.15	8170947.33	0.0089	0.0072
Earth	17659-03-11 17:02 G	8170947.11	8170947.21	8170947.37	0.0089	0.0077 *

Earth	17660-03-13 05:31 G	8171314.63	8171314.73	8171314.87	0.0089	0.0078
Moon	17660-03-13 08:24 G	8171314.76	8171314.85	8171314.95	0.0089	0.0082 *
Moon	17661-03-15 15:07 G	8171681.99	8171682.13	8171682.27	0.0089	0.0074
Earth	17661-03-15 18:00 G	8171682.14	8171682.25	8171682.38	0.0089	0.0079 *
Earth	17662-03-18 06:14 G	8172049.66	8172049.76	8172049.88	0.0089	0.0080
Moon	17662-03-18 09:50 G	8172049.86	8172049.91	8172050.00	0.0089	0.0085 *
Moon	17663-03-20 15:07 G	8172417.03	8172417.13	8172417.29	0.0089	0.0077
Earth	17663-03-20 18:43 G	8172417.19	8172417.28	8172417.40	0.0089	0.0081 *
Earth	17664-03-22 06:57 G	8172784.71	8172784.79	8172784.91	0.0089	0.0082
Moon	17664-03-22 10:33 G	8172784.89	8172784.94	8172785.01	0.0089	0.0086 *
Moon	17665-03-24 17:45 G	8173152.13	8173152.24	8173152.37	0.0089	0.0078
Earth	17665-03-24 19:26 G	8173152.25	8173152.31	8173152.43	0.0089	0.0083 *
Earth	17666-03-27 08:24 G	8173519.78	8173519.85	8173519.95	0.0089	0.0083
Moon	17666-03-27 09:21 G	8173519.86	8173519.89	8173519.96	0.0089	0.0087 *
Moon	17667-03-29 20:38 G	8173887.28	8173887.36	8173887.50	0.0089	0.0080
Earth	17667-03-29 20:52 G	8173887.31	8173887.37	8173887.48	0.0089	0.0084 *
Moon	17668-03-31 08:52 G	8174254.85	8174254.87	8174254.90	0.0089	0.0088
Earth	17668-03-31 09:50 G	8174254.85	8174254.91	8174255.02	0.0089	0.0084 *
Earth	17669-04-02 22:48 G	8174622.38	8174622.45	8174622.54	0.0089	0.0084
Moon	17669-04-03 01:12 G	8174622.45	8174622.55	8174622.67	0.0089	0.0080 *
Moon	17670-04-05 08:38 G	8174989.86	8174989.86	8174989.90	0.0089	0.0089
Earth	17670-04-05 11:45 G	8174989.93	8174989.99	8174990.09	0.0089	0.0084
Earth	17671-04-08 00:43 G	8175357.46	8175357.53	8175357.62	0.0089	0.0084
Moon	17671-04-08 04:04 G	8175357.58	8175357.67	8175357.81	0.0089	0.0080 *
Moon	17672-04-09 10:19 G	8175724.91	8175724.93	8175724.96	0.0089	0.0088
Earth	17672-04-09 13:26 G	8175725.00	8175725.06	8175725.16	0.0089	0.0084
Earth	17673-04-12 01:55 G	8176092.53	8176092.58	8176092.69	0.0089	0.0084
Moon	17673-04-12 05:31 G	8176092.64	8176092.73	8176092.87	0.0089	0.0080 *
Moon	17674-04-14 12:43 G	8176460.02	8176460.03	8176460.09	0.0089	0.0088
Earth	17674-04-14 15:21 G	8176460.06	8176460.14	8176460.24	0.0089	0.0083 *

Earth	17675-04-17 03:50 G	8176827.59	8176827.66	8176827.78	0.0089	0.0083
Moon	17675-04-17 05:16 G	8176827.62	8176827.72	8176827.86	0.0089	0.0079 *
Venus	17675-11-03 06:57 G	8177027.69	8177027.79	8177027.94	0.0089	0.0074
Earth	17676-04-18 16:48 G	8177195.13	8177195.20	8177195.32	0.0089	0.0083
Moon	17676-04-18 16:19 G	8177195.14	8177195.18	8177195.26	0.0089	0.0086 *
Venus	17676-06-15 20:09 G	8177253.19	8177253.34	8177253.54	0.0089	0.0054
Venus	17677-01-27 10:04 G	8177478.71	8177478.92	8177479.12	0.0089	0.0033
Moon	17677-04-21 04:33 G	8177562.57	8177562.69	8177562.84	0.0089	0.0077
Earth	17677-04-21 06:00 G	8177562.66	8177562.75	8177562.86	0.0089	0.0082 *
Venus	17677-09-09 23:16 G	8177704.25	8177704.47	8177704.68	0.0089	0.0012
Venus	17678-04-23 12:14 G	8177929.79	8177930.01	8177930.23	0.0089	0.0008
Earth	17678-04-23 18:57 G	8177930.19	8177930.29	8177930.41	0.0089	0.0081 *
Moon	17678-04-23 20:52 G	8177930.31	8177930.37	8177930.46	0.0089	0.0084 *
Venus	17678-12-05 01:12 G	8178155.35	8178155.55	8178155.77	0.0089	0.0029
Moon	17679-04-26 04:48 G	8178297.60	8178297.70	8178297.87	0.0089	0.0077
Earth	17679-04-26 08:24 G	8178297.74	8178297.85	8178297.97	0.0089	0.0080 *
Venus	17679-07-18 14:38 G	8178380.93	8178381.11	8178381.30	0.0089	0.0048
Venus	17680-02-29 04:04 G	8178606.53	8178606.67	8178606.81	0.0089	0.0069
Earth	17680-04-27 21:07 G	8178665.27	8178665.38	8178665.51	0.0089	0.0078
Moon	17680-04-28 00:43 G	8178665.45	8178665.53	8178665.64	0.0089	0.0082 *
Venus	17680-10-11 17:02 G	8178832.21	8178832.21	8178832.24	0.0089	0.0089
Moon	17681-04-30 06:28 G	8179032.66	8179032.77	8179032.95	0.0089	0.0075
Earth	17681-04-30 10:19 G	8179032.82	8179032.93	8179033.08	0.0089	0.0077 *
Mercury	17681-12-10 07:26 G	8179256.79	8179256.81	8179256.84	0.0089	0.0088
Mercury	17682-03-08 09:36 G	8179344.84	8179344.90	8179344.99	0.0089	0.0079
Earth	17682-05-02 23:45 G	8179400.36	8179400.49	8179400.63	0.0089	0.0076
Moon	17682-05-03 03:21 G	8179400.53	8179400.64	8179400.77	0.0089	0.0079 *
Mercury	17682-06-04 11:45 G	8179432.91	8179432.99	8179433.11	0.0089	0.0072
Mercury	17682-08-31 14:24 G	8179520.99	8179521.10	8179521.22	0.0089	0.0063
Mercury	17682-11-27 16:33 G	8179609.07	8179609.19	8179609.33	0.0089	0.0054

Mercury	17683-02-23 18:43 G	8179697.16	8179697.28	8179697.43	0.0089	0.0046
Moon	17683-05-05 10:04 G	8179767.79	8179767.92	8179768.10	0.0089	0.0071
Earth	17683-05-05 12:43 G	8179767.91	8179768.03	8179768.19	0.0089	0.0075 *
Mercury	17683-05-22 21:21 G	8179785.24	8179785.39	8179785.53	0.0089	0.0038
Mercury	17683-08-18 23:31 G	8179873.33	8179873.48	8179873.63	0.0089	0.0029
Mercury	17683-11-15 01:40 G	8179961.42	8179961.57	8179961.73	0.0089	0.0021
Mercury	17684-02-11 03:50 G	8180049.51	8180049.66	8180049.82	0.0089	0.0013
Earth	17684-05-07 01:55 G	8180135.45	8180135.58	8180135.74	0.0089	0.0073
Moon	17684-05-07 03:21 G	8180135.53	8180135.64	8180135.82	0.0089	0.0076 *
Mercury	17684-05-09 06:14 G	8180137.60	8180137.76	8180137.92	0.0089	0.0005
Mercury	17684-08-05 08:24 G	8180225.69	8180225.85	8180226.01	0.0089	0.0003
Mercury	17684-11-01 10:33 G	8180313.78	8180313.94	8180314.10	0.0089	0.0011
Mercury	17685-01-28 12:43 G	8180401.88	8180402.03	8180402.18	0.0089	0.0019
Mercury	17685-04-26 14:38 G	8180489.97	8180490.11	8180490.27	0.0089	0.0028
Moon	17685-05-09 14:09 G	8180502.94	8180503.09	8180503.26	0.0089	0.0069
Earth	17685-05-09 14:38 G	8180502.98	8180503.11	8180503.30	0.0089	0.0072 *
Mercury	17685-07-23 16:48 G	8180578.06	8180578.20	8180578.35	0.0089	0.0036
Mercury	17685-10-19 18:57 G	8180666.16	8180666.29	8180666.43	0.0089	0.0043
Mercury	17686-01-15 21:07 G	8180754.26	8180754.38	8180754.51	0.0089	0.0051
Mercury	17686-04-13 23:02 G	8180842.36	8180842.46	8180842.59	0.0089	0.0060
Moon	17686-05-12 03:36 G	8180870.50	8180870.65	8180870.81	0.0089	0.0072
Earth	17686-05-12 03:50 G	8180870.53	8180870.66	8180870.85	0.0089	0.0070 *
Mercury	17686-07-11 01:12 G	8180930.46	8180930.55	8180930.66	0.0089	0.0067
Mercury	17686-10-07 03:36 G	8181018.57	8181018.65	8181018.73	0.0089	0.0075
Mercury	17687-01-03 05:31 G	8181106.68	8181106.73	8181106.79	0.0089	0.0083
Earth	17687-05-14 17:02 G	8181238.07	8181238.21	8181238.41	0.0089	0.0068
Moon	17687-05-14 18:28 G	8181238.13	8181238.27	8181238.47	0.0089	0.0066 *
Moon	17688-05-16 03:36 G	8181605.50	8181605.65	8181605.84	0.0089	0.0068
Earth	17688-05-16 06:00 G	8181605.60	8181605.75	8181605.95	0.0089	0.0066 *
Earth	17689-05-18 19:12 G	8181973.14	8181973.30	8181973.51	0.0089	0.0064

Moon	17689-05-18 22:48 G	8181973.28	8181973.45	8181973.66	0.0089	0.0061 *
Moon	17690-05-21 05:16 G	8182340.55	8182340.72	8182340.92	0.0089	0.0063
Earth	17690-05-21 08:52 G	8182340.69	8182340.87	8182341.07	0.0089	0.0061 *
Earth	17691-05-23 21:36 G	8182708.23	8182708.40	8182708.62	0.0089	0.0059
Moon	17691-05-24 01:55 G	8182708.38	8182708.58	8182708.78	0.0089	0.0057 *
Moon	17692-05-25 08:09 G	8183075.67	8183075.84	8183076.05	0.0089	0.0059
Earth	17692-05-25 11:16 G	8183075.78	8183075.97	8183076.18	0.0089	0.0056 *
Earth	17693-05-28 00:14 G	8183443.32	8183443.51	8183443.73	0.0089	0.0054
Moon	17693-05-28 02:24 G	8183443.40	8183443.60	8183443.83	0.0089	0.0053 *
Moon	17694-05-30 12:43 G	8183810.83	8183811.03	8183811.24	0.0089	0.0052
Earth	17694-05-30 13:40 G	8183810.87	8183811.07	8183811.30	0.0089	0.0051 *
Moon	17695-06-02 02:24 G	8184178.39	8184178.60	8184178.85	0.0089	0.0047
Earth	17695-06-02 02:38 G	8184178.42	8184178.61	8184178.86	0.0089	0.0049 *
Earth	17696-06-03 15:50 G	8184545.96	8184546.16	8184546.40	0.0089	0.0046
Moon	17696-06-03 17:02 G	8184546.02	8184546.21	8184546.44	0.0089	0.0047 *
Moon	17697-06-06 02:52 G	8184913.40	8184913.62	8184913.87	0.0089	0.0042
Earth	17697-06-06 05:16 G	8184913.50	8184913.72	8184913.96	0.0089	0.0043 *
Earth	17698-06-08 18:14 G	8185281.05	8185281.26	8185281.51	0.0090	0.0040
Moon	17698-06-08 21:36 G	8185281.19	8185281.40	8185281.64	0.0090	0.0041 *
Moon	17699-06-11 03:50 G	8185648.44	8185648.66	8185648.92	0.0090	0.0037
Earth	17699-06-11 07:26 G	8185648.59	8185648.81	8185649.06	0.0090	0.0037 *
Earth	17700-06-13 20:24 G	8186016.12	8186016.35	8186016.60	0.0090	0.0034
Moon	17700-06-14 00:00 G	8186016.28	8186016.50	8186016.76	0.0090	0.0034 *
Moon	17701-06-16 06:28 G	8186383.54	8186383.77	8186384.02	0.0090	0.0030
Earth	17701-06-16 09:21 G	8186383.66	8186383.89	8186384.15	0.0090	0.0031 *
Earth	17702-06-18 22:19 G	8186751.20	8186751.43	8186751.69	0.0090	0.0028
Moon	17702-06-19 00:57 G	8186751.30	8186751.54	8186751.81	0.0090	0.0027 *
Moon	17703-06-21 10:04 G	8187118.69	8187118.92	8187119.17	0.0090	0.0025
Earth	17703-06-21 11:31 G	8187118.74	8187118.98	8187119.24	0.0090	0.0024 *
Moon	17704-06-23 00:28 G	8187486.26	8187486.52	8187486.78	0.0090	0.0021



Earth	17704-06-23 00:14 G	8187486.27	8187486.51	8187486.78	0.0090	0.0022 *
Earth	17705-06-25 13:40 G	8187853.82	8187854.07	8187854.32	0.0090	0.0018
Moon	17705-06-25 14:24 G	8187853.86	8187854.10	8187854.34	0.0090	0.0019 *
Moon	17706-06-28 00:28 G	8188221.26	8188221.52	8188221.79	0.0090	0.0014
Earth	17706-06-28 02:38 G	8188221.36	8188221.61	8188221.87	0.0090	0.0015 *
Earth	17707-06-30 15:36 G	8188588.90	8188589.15	8188589.41	0.0090	0.0011
Moon	17707-06-30 18:43 G	8188589.03	8188589.28	8188589.53	0.0090	0.0012 *
Moon	17708-07-02 01:12 G	8188956.29	8188956.55	8188956.81	0.0090	0.0007
Earth	17708-07-02 04:33 G	8188956.43	8188956.69	8188956.95	0.0090	0.0008 *
Earth	17709-07-04 17:16 G	8189323.96	8189324.22	8189324.48	0.0090	0.0005
Moon	17709-07-04 21:07 G	8189324.12	8189324.38	8189324.64	0.0090	0.0007 *
Moon	17710-07-07 03:07 G	8189691.37	8189691.63	8189691.88	0.0090	0.0001
Earth	17710-07-07 06:00 G	8189691.50	8189691.75	8189692.01	0.0090	0.0002 *
Earth	17711-07-09 18:43 G	8190059.02	8190059.28	8190059.54	0.0090	0.0002
Moon	17711-07-09 21:36 G	8190059.14	8190059.40	8190059.66	0.0090	0.0001 *
Moon	17712-07-11 05:31 G	8190426.48	8190426.73	8190426.98	0.0090	0.0007
Earth	17712-07-11 07:12 G	8190426.54	8190426.80	8190427.06	0.0090	0.0005 *
Earth	17713-07-13 19:40 G	8190794.07	8190794.32	8190794.58	0.0089	0.0008
Moon	17713-07-13 19:55 G	8190794.07	8190794.33	8190794.60	0.0089	0.0006 *
Earth	17714-07-16 08:09 G	8191161.59	8191161.84	8191162.10	0.0089	0.0011
Moon	17714-07-16 08:38 G	8191161.62	8191161.86	8191162.11	0.0089	0.0014 *
Moon	17715-07-18 18:28 G	8191529.01	8191529.27	8191529.54	0.0089	0.0012
Earth	17715-07-18 20:24 G	8191529.11	8191529.35	8191529.62	0.0089	0.0015 *
Earth	17716-07-20 08:52 G	8191896.62	8191896.87	8191897.13	0.0089	0.0018
Moon	17716-07-20 11:45 G	8191896.75	8191896.99	8191897.24	0.0089	0.0020 *
Moon	17717-07-22 18:14 G	8192264.01	8192264.26	8192264.52	0.0089	0.0018
Earth	17717-07-22 21:36 G	8192264.15	8192264.40	8192264.65	0.0089	0.0021 *
Earth	17718-07-25 09:50 G	8192631.67	8192631.91	8192632.16	0.0089	0.0024
Moon	17718-07-25 13:40 G	8192631.83	8192632.07	8192632.32	0.0089	0.0027 *
Moon	17719-07-27 19:12 G	8192999.06	8192999.30	8192999.55	0.0089	0.0024

Earth	17719-07-27 22:04 G	8192999.19	8192999.42	8192999.68	0.0089	0.0027 *
Earth	17720-07-29 10:33 G	8193366.70	8193366.94	8193367.19	0.0089	0.0030
Moon	17720-07-29 13:26 G	8193366.83	8193367.06	8193367.31	0.0089	0.0034 *
Moon	17721-07-31 21:07 G	8193734.15	8193734.38	8193734.62	0.0089	0.0030
Earth	17721-07-31 23:02 G	8193734.22	8193734.46	8193734.70	0.0089	0.0033 *
Earth	17722-08-03 11:02 G	8194101.73	8194101.96	8194102.20	0.0089	0.0036
Moon	17722-08-03 11:16 G	8194101.74	8194101.97	8194102.22	0.0089	0.0039 *
Earth	17723-08-05 22:48 G	8194469.23	8194469.45	8194469.69	0.0089	0.0039
Moon	17723-08-05 23:02 G	8194469.25	8194469.46	8194469.70	0.0089	0.0036 *
Moon	17724-08-07 08:52 G	8194836.65	8194836.87	8194837.11	0.0089	0.0045
Earth	17724-08-07 10:48 G	8194836.73	8194836.95	8194837.19	0.0089	0.0041 *
Earth	17725-08-09 22:33 G	8195204.23	8195204.44	8195204.68	0.0089	0.0044
Moon	17725-08-10 01:12 G	8195204.35	8195204.55	8195204.80	0.0089	0.0042 *
Moon	17726-08-12 07:12 G	8195571.60	8195571.80	8195572.03	0.0089	0.0051
Earth	17726-08-12 10:33 G	8195571.73	8195571.94	8195572.17	0.0089	0.0047 *
Earth	17727-08-14 22:04 G	8195939.23	8195939.42	8195939.65	0.0089	0.0050
Moon	17727-08-15 01:55 G	8195939.38	8195939.58	8195939.82	0.0089	0.0046 *
Moon	17728-08-16 06:43 G	8196306.60	8196306.78	8196307.00	0.0089	0.0056
Earth	17728-08-16 10:19 G	8196306.72	8196306.93	8196307.14	0.0089	0.0052 *
Earth	17729-08-18 21:36 G	8196674.22	8196674.40	8196674.62	0.0089	0.0055
Moon	17729-08-19 00:43 G	8196674.33	8196674.53	8196674.77	0.0089	0.0050 *
Moon	17730-08-21 07:55 G	8197041.66	8197041.83	8197042.03	0.0089	0.0061
Earth	17730-08-21 09:36 G	8197041.72	8197041.90	8197042.11	0.0089	0.0056 *
Earth	17731-08-23 21:36 G	8197409.21	8197409.40	8197409.59	0.0089	0.0059
Moon	17731-08-23 21:36 G	8197409.21	8197409.40	8197409.63	0.0089	0.0055 *
Mars	17732-04-26 10:04 G	8197655.86	8197655.92	8197656.03	0.0089	0.0085
Earth	17732-08-25 09:21 G	8197776.70	8197776.89	8197777.08	0.0089	0.0061
Moon	17732-08-25 09:07 G	8197776.73	8197776.88	8197777.07	0.0089	0.0065 *
Moon	17733-08-27 18:57 G	8198144.10	8198144.29	8198144.49	0.0089	0.0059
Earth	17733-08-27 20:24 G	8198144.20	8198144.35	8198144.56	0.0089	0.0063 *

Mars	17734-03-21 21:36 G	8198350.10	8198350.40	8198350.71	0.0089	0.0003
Earth	17734-08-30 08:24 G	8198511.68	8198511.85	8198512.03	0.0089	0.0064
Moon	17734-08-30 11:02 G	8198511.81	8198511.96	8198512.13	0.0089	0.0068 *
Moon	17735-09-01 16:04 G	8198879.01	8198879.17	8198879.38	0.0089	0.0062
Earth	17735-09-01 19:55 G	8198879.16	8198879.33	8198879.50	0.0089	0.0066 *
Mars	17736-02-14 10:48 G	8199044.85	8199044.95	8199045.10	0.0089	0.0081
Earth	17736-09-03 06:43 G	8199246.64	8199246.78	8199246.96	0.0089	0.0068
Moon	17736-09-03 11:02 G	8199246.81	8199246.96	8199247.10	0.0089	0.0072 *
Moon	17737-09-05 14:52 G	8199613.97	8199614.12	8199614.31	0.0089	0.0066
Earth	17737-09-05 18:00 G	8199614.12	8199614.25	8199614.43	0.0089	0.0070 *
Earth	17738-09-08 05:16 G	8199981.59	8199981.72	8199981.89	0.0089	0.0071
Moon	17738-09-08 07:55 G	8199981.73	8199981.83	8199982.00	0.0089	0.0076 *
Moon	17739-09-10 15:07 G	8200348.98	8200349.13	8200349.30	0.0089	0.0068
Earth	17739-09-10 16:04 G	8200349.06	8200349.17	8200349.35	0.0089	0.0073 *
Earth	17740-09-12 03:21 G	8200716.52	8200716.64	8200716.81	0.0089	0.0074
Moon	17740-09-12 03:36 G	8200716.55	8200716.65	8200716.81	0.0089	0.0078 *
Earth	17741-09-14 14:38 G	8201083.99	8201084.11	8201084.26	0.0089	0.0075
Moon	17741-09-14 15:07 G	8201084.00	8201084.13	8201084.30	0.0089	0.0071 *
Moon	17742-09-16 23:31 G	8201451.38	8201451.48	8201451.61	0.0089	0.0080
Earth	17742-09-17 01:40 G	8201451.46	8201451.57	8201451.72	0.0089	0.0076 *
Earth	17743-09-19 12:43 G	8201818.92	8201819.03	8201819.17	0.0089	0.0077
Moon	17743-09-19 15:36 G	8201819.02	8201819.15	8201819.31	0.0089	0.0073 *
Moon	17744-09-20 20:52 G	8202186.28	8202186.37	8202186.47	0.0089	0.0082
Earth	17744-09-20 23:45 G	8202186.39	8202186.49	8202186.63	0.0089	0.0078 *
Earth	17745-09-23 10:33 G	8202553.85	8202553.94	8202554.08	0.0089	0.0079
Moon	17745-09-23 14:24 G	8202553.98	8202554.10	8202554.26	0.0089	0.0074 *
Moon	17746-09-25 18:28 G	8202921.21	8202921.27	8202921.38	0.0089	0.0084
Earth	17746-09-25 21:50 G	8202921.31	8202921.41	8202921.54	0.0089	0.0079 *
Earth	17747-09-28 08:09 G	8203288.76	8203288.84	8203288.98	0.0089	0.0080
Moon	17747-09-28 11:16 G	8203288.85	8203288.97	8203289.13	0.0089	0.0075 *

Moon	17748-09-29 17:45 G	8203656.19	8203656.24	8203656.34	0.0089	0.0085
Earth	17748-09-29 19:12 G	8203656.21	8203656.30	8203656.43	0.0089	0.0080 *
Moon	17749-10-02 06:00 G	8204023.64	8204023.75	8204023.91	0.0089	0.0076
Earth	17749-10-02 06:00 G	8204023.66	8204023.75	8204023.87	0.0089	0.0080 *
Earth	17750-10-04 16:33 G	8204391.09	8204391.19	8204391.31	0.0089	0.0080
Moon	17750-10-04 17:02 G	8204391.16	8204391.21	8204391.30	0.0089	0.0085 *
Moon	17751-10-07 00:14 G	8204758.41	8204758.51	8204758.68	0.0088	0.0076
Earth	17751-10-07 03:36 G	8204758.54	8204758.65	8204758.75	0.0088	0.0080 *
Earth	17752-10-08 13:40 G	8205125.98	8205126.07	8205126.19	0.0088	0.0080
Moon	17752-10-08 16:19 G	8205126.13	8205126.18	8205126.28	0.0088	0.0085 *
Moon	17753-10-10 20:52 G	8205493.24	8205493.37	8205493.51	0.0088	0.0075
Earth	17753-10-11 00:14 G	8205493.41	8205493.51	8205493.63	0.0088	0.0080 *
Earth	17754-10-13 10:19 G	8205860.85	8205860.93	8205861.07	0.0088	0.0080
Moon	17754-10-13 13:55 G	8205861.03	8205861.08	8205861.19	0.0088	0.0084 *
Moon	17755-10-15 18:14 G	8206228.14	8206228.26	8206228.41	0.0088	0.0075
Earth	17755-10-15 21:21 G	8206228.28	8206228.39	8206228.51	0.0088	0.0079 *
Venus	17756-09-26 04:33 G	8206574.67	8206574.69	8206574.75	0.0088	0.0087
Earth	17756-10-17 07:26 G	8206595.72	8206595.81	8206595.95	0.0088	0.0078
Moon	17756-10-17 10:04 G	8206595.85	8206595.92	8206596.03	0.0088	0.0083 *
Venus	17757-05-09 17:16 G	8206800.10	8206800.22	8206800.38	0.0088	0.0067
Moon	17757-10-19 17:16 G	8206963.10	8206963.22	8206963.38	0.0088	0.0073
Earth	17757-10-19 18:14 G	8206963.16	8206963.26	8206963.40	0.0088	0.0078 *
Venus	17757-12-21 06:14 G	8207025.59	8207025.76	8207025.96	0.0088	0.0048
Venus	17758-08-03 19:26 G	8207251.11	8207251.31	8207251.52	0.0088	0.0028
Earth	17758-10-22 04:48 G	8207330.58	8207330.70	8207330.83	0.0088	0.0077
Moon	17758-10-22 04:19 G	8207330.59	8207330.68	8207330.81	0.0088	0.0081 *
Venus	17759-03-17 08:09 G	8207476.63	8207476.84	8207477.07	0.0088	0.0009
Earth	17759-10-24 14:38 G	8207698.02	8207698.11	8207698.27	0.0088	0.0077
Moon	17759-10-24 16:19 G	8207698.05	8207698.18	8207698.33	0.0088	0.0072 *
Venus	17759-10-28 20:52 G	8207702.16	8207702.37	8207702.60	0.0088	0.0012

Venus	17760-06-10 09:36 G	8207927.70	8207927.90	8207928.12	0.0088	0.0032
Moon	17760-10-25 22:33 G	8208065.35	8208065.44	8208065.58	0.0088	0.0080
Earth	17760-10-26 01:55 G	8208065.45	8208065.58	8208065.71	0.0088	0.0075 *
Venus	17761-01-21 22:19 G	8208153.26	8208153.43	8208153.62	0.0088	0.0051
Venus	17761-09-04 11:16 G	8208378.85	8208378.97	8208379.11	0.0088	0.0071
Earth	17761-10-28 12:00 G	8208432.86	8208433.00	8208433.14	0.0088	0.0074
Moon	17761-10-28 14:52 G	8208432.98	8208433.12	8208433.29	0.0088	0.0069 *
Moon	17762-10-30 18:14 G	8208800.16	8208800.26	8208800.41	0.0088	0.0077
Earth	17762-10-30 22:04 G	8208800.29	8208800.42	8208800.58	0.0088	0.0072 *
Mercury	17763-06-10 09:07 G	8209022.85	8209022.88	8209022.94	0.0088	0.0084
Mercury	17763-09-06 11:16 G	8209110.90	8209110.97	8209111.05	0.0088	0.0077
Earth	17763-11-02 07:55 G	8209167.71	8209167.83	8209168.01	0.0088	0.0072
Moon	17763-11-02 11:31 G	8209167.83	8209167.98	8209168.17	0.0088	0.0067 *
Mercury	17763-12-03 13:12 G	8209198.97	8209199.05	8209199.16	0.0088	0.0069
Mercury	17764-02-29 15:21 G	8209287.04	8209287.14	8209287.25	0.0088	0.0061
Mercury	17764-05-27 17:16 G	8209375.11	8209375.22	8209375.35	0.0088	0.0054
Mercury	17764-08-23 19:26 G	8209463.18	8209463.31	8209463.44	0.0088	0.0046
Moon	17764-11-03 15:36 G	8209535.04	8209535.15	8209535.31	0.0088	0.0074
Earth	17764-11-03 18:43 G	8209535.13	8209535.28	8209535.44	0.0088	0.0070 *
Mercury	17764-11-19 21:21 G	8209551.26	8209551.39	8209551.53	0.0088	0.0039
Mercury	17765-02-15 23:31 G	8209639.33	8209639.48	8209639.62	0.0088	0.0031
Mercury	17765-05-15 01:26 G	8209727.41	8209727.56	8209727.71	0.0088	0.0024
Mercury	17765-08-11 03:36 G	8209815.49	8209815.65	8209815.80	0.0088	0.0016
Earth	17765-11-06 04:33 G	8209902.55	8209902.69	8209902.87	0.0088	0.0068
Moon	17765-11-06 06:43 G	8209902.62	8209902.78	8209902.99	0.0088	0.0064 *
Mercury	17765-11-07 05:31 G	8209903.58	8209903.73	8209903.89	0.0088	0.0009
Mercury	17766-02-03 07:40 G	8209991.66	8209991.82	8209991.98	0.0088	0.0001
Mercury	17766-05-02 09:50 G	8210079.75	8210079.91	8210080.06	0.0088	0.0007
Mercury	17766-07-29 11:45 G	8210167.84	8210167.99	8210168.15	0.0088	0.0015
Mercury	17766-10-25 13:40 G	8210255.93	8210256.07	8210256.23	0.0088	0.0024

Moon	17766-11-08 14:24 G	8210269.97	8210270.10	8210270.26	0.0088	0.0071
Earth	17766-11-08 15:07 G	8210269.97	8210270.13	8210270.30	0.0088	0.0066 *
Mercury	17767-01-21 16:04 G	8210344.02	8210344.17	8210344.32	0.0088	0.0030
Mercury	17767-04-19 18:14 G	8210432.12	8210432.26	8210432.40	0.0088	0.0038
Mercury	17767-07-16 20:09 G	8210520.21	8210520.34	8210520.48	0.0088	0.0046
Mercury	17767-10-12 22:19 G	8210608.31	8210608.43	8210608.56	0.0088	0.0054
Moon	17767-11-11 00:57 G	8210637.35	8210637.54	8210637.73	0.0088	0.0061
Earth	17767-11-11 00:57 G	8210637.39	8210637.54	8210637.74	0.0088	0.0065 *
Mercury	17768-01-09 00:28 G	8210696.41	8210696.52	8210696.64	0.0088	0.0062
Mercury	17768-04-06 02:38 G	8210784.52	8210784.61	8210784.71	0.0088	0.0070
Mercury	17768-07-03 04:48 G	8210872.64	8210872.70	8210872.78	0.0088	0.0078
Mercury	17768-09-29 06:57 G	8210960.77	8210960.79	8210960.83	0.0088	0.0086
Earth	17768-11-12 11:16 G	8211004.82	8211004.97	8211005.18	0.0088	0.0063
Moon	17768-11-12 13:12 G	8211004.90	8211005.05	8211005.22	0.0088	0.0067 *
Moon	17769-11-14 18:57 G	8211372.10	8211372.29	8211372.50	0.0088	0.0056
Earth	17769-11-14 21:50 G	8211372.24	8211372.41	8211372.61	0.0088	0.0061 *
Jupiter	17770-04-07 00:00 G	8211514.96	8211515.50	8211516.07	0.0088	0.0021
Earth	17770-11-17 08:09 G	8211739.67	8211739.84	8211740.05	0.0088	0.0059
Moon	17770-11-17 11:31 G	8211739.82	8211739.98	8211740.17	0.0088	0.0063 *
Moon	17771-11-19 15:07 G	8212106.93	8212107.13	8212107.34	0.0088	0.0052
Earth	17771-11-19 18:28 G	8212107.10	8212107.27	8212107.49	0.0088	0.0057 *
Earth	17772-11-21 04:33 G	8212474.51	8212474.69	8212474.92	0.0088	0.0055
Moon	17772-11-21 08:09 G	8212474.66	8212474.84	8212475.04	0.0088	0.0059 *
Moon	17773-11-23 12:28 G	8212841.84	8212842.02	8212842.25	0.0088	0.0049
Earth	17773-11-23 14:52 G	8212841.94	8212842.12	8212842.35	0.0088	0.0053 *
Earth	17774-11-26 01:12 G	8213209.36	8213209.55	8213209.78	0.0088	0.0050
Moon	17774-11-26 03:07 G	8213209.44	8213209.63	8213209.85	0.0088	0.0054 *
Earth	17775-11-28 11:31 G	8213576.78	8213576.98	8213577.21	0.0088	0.0048
Moon	17775-11-28 11:31 G	8213576.78	8213576.98	8213577.21	0.0088	0.0044 *
Moon	17776-11-29 20:52 G	8213944.16	8213944.37	8213944.60	0.0088	0.0049

Earth	17776-11-29 22:04 G	8213944.21	8213944.42	8213944.64	0.0088	0.0045 *
Earth	17777-12-02 07:55 G	8214311.62	8214311.83	8214312.07	0.0088	0.0043
Moon	17777-12-02 09:50 G	8214311.70	8214311.91	8214312.15	0.0088	0.0039 *
Moon	17778-12-04 14:52 G	8214678.91	8214679.12	8214679.36	0.0088	0.0045
Earth	17778-12-04 18:43 G	8214679.05	8214679.28	8214679.50	0.0088	0.0040 *
Earth	17779-12-07 04:33 G	8215046.47	8215046.69	8215046.93	0.0088	0.0038
Moon	17779-12-07 07:55 G	8215046.61	8215046.83	8215047.08	0.0088	0.0034 *
Moon	17780-12-08 11:31 G	8215413.75	8215413.98	8215414.21	0.0088	0.0039
Earth	17780-12-08 14:52 G	8215413.90	8215414.12	8215414.37	0.0088	0.0035 *
Earth	17781-12-11 01:12 G	8215781.33	8215781.55	8215781.80	0.0088	0.0033
Moon	17781-12-11 04:19 G	8215781.44	8215781.68	8215781.94	0.0088	0.0028 *
Moon	17782-12-13 09:21 G	8216148.68	8216148.89	8216149.14	0.0088	0.0034
Earth	17782-12-13 11:45 G	8216148.76	8216148.99	8216149.24	0.0088	0.0030 *
Earth	17783-12-15 22:19 G	8216516.19	8216516.43	8216516.68	0.0088	0.0027
Moon	17783-12-15 23:45 G	8216516.24	8216516.49	8216516.75	0.0088	0.0023 *
Earth	17784-12-17 08:52 G	8216883.63	8216883.87	8216884.12	0.0088	0.0024
Moon	17784-12-17 09:21 G	8216883.66	8216883.89	8216884.13	0.0088	0.0028 *
Moon	17785-12-19 17:31 G	8217250.98	8217251.23	8217251.51	0.0088	0.0018
Earth	17785-12-19 19:12 G	8217251.06	8217251.30	8217251.56	0.0088	0.0021 *
Earth	17786-12-22 05:45 G	8217618.49	8217618.74	8217618.99	0.0088	0.0018
Moon	17786-12-22 08:09 G	8217618.60	8217618.84	8217619.08	0.0088	0.0022 *
Moon	17787-12-24 12:43 G	8217985.78	8217986.03	8217986.29	0.0088	0.0011
Earth	17787-12-24 16:04 G	8217985.93	8217986.17	8217986.43	0.0088	0.0016 *
Earth	17788-12-26 02:24 G	8218353.35	8218353.60	8218353.86	0.0088	0.0013
Moon	17788-12-26 06:00 G	8218353.50	8218353.75	8218354.00	0.0088	0.0016 *
Moon	17789-12-28 09:36 G	8218720.65	8218720.90	8218721.16	0.0088	0.0006
Earth	17789-12-28 12:57 G	8218720.79	8218721.04	8218721.31	0.0088	0.0010 *
Earth	17790-12-30 23:31 G	8219088.23	8219088.48	8219088.74	0.0088	0.0007
Moon	17790-12-31 02:09 G	8219088.34	8219088.59	8219088.86	0.0088	0.0011 *
Moon	17792-01-02 08:24 G	8219455.60	8219455.85	8219456.10	0.0088	0.0000

Earth	17792-01-02 10:19 G	8219455.67	8219455.93	8219456.19	0.0088	0.0004 *
Earth	17793-01-03 20:52 G	8219823.11	8219823.37	8219823.63	0.0088	0.0001
Moon	17793-01-03 21:50 G	8219823.15	8219823.41	8219823.68	0.0088	0.0004 *
Earth	17794-01-06 07:26 G	8220190.56	8220190.81	8220191.07	0.0088	0.0003
Moon	17794-01-06 08:24 G	8220190.60	8220190.85	8220191.10	0.0088	0.0006 *
Moon	17795-01-08 16:33 G	8220557.93	8220558.19	8220558.46	0.0088	0.0002
Earth	17795-01-08 18:14 G	8220558.01	8220558.26	8220558.53	0.0088	0.0006 *
Earth	17796-01-11 05:16 G	8220925.46	8220925.72	8220925.98	0.0088	0.0008
Moon	17796-01-11 07:40 G	8220925.58	8220925.82	8220926.08	0.0088	0.0012 *
Moon	17797-01-12 12:28 G	8221292.76	8221293.02	8221293.28	0.0088	0.0007
Earth	17797-01-12 15:50 G	8221292.92	8221293.16	8221293.43	0.0088	0.0012 *
Earth	17798-01-15 02:52 G	8221660.37	8221660.62	8221660.88	0.0088	0.0014
Moon	17798-01-15 06:14 G	8221660.52	8221660.76	8221661.02	0.0088	0.0018 *
Moon	17799-01-17 10:19 G	8222027.69	8222027.93	8222028.19	0.0088	0.0014
Earth	17799-01-17 14:09 G	8222027.83	8222028.09	8222028.34	0.0088	0.0017 *
Earth	17800-01-20 00:43 G	8222395.29	8222395.53	8222395.79	0.0088	0.0020
Moon	17800-01-20 03:07 G	8222395.39	8222395.63	8222395.90	0.0088	0.0024 *
Moon	17801-01-22 10:19 G	8222762.69	8222762.93	8222763.17	0.0088	0.0020
Earth	17801-01-22 11:45 G	8222762.75	8222762.99	8222763.25	0.0088	0.0023 *
Earth	17802-01-24 22:33 G	8223130.21	8223130.44	8223130.70	0.0088	0.0026
Moon	17802-01-24 23:16 G	8223130.23	8223130.47	8223130.74	0.0088	0.0029 *
Earth	17803-01-27 09:36 G	8223497.68	8223497.90	8223498.17	0.0088	0.0029
Moon	17803-01-27 11:02 G	8223497.73	8223497.96	8223498.21	0.0088	0.0025 *
Moon	17804-01-29 19:12 G	8223865.06	8223865.30	8223865.55	0.0088	0.0034
Earth	17804-01-29 21:07 G	8223865.15	8223865.38	8223865.63	0.0088	0.0031 *
Earth	17805-01-31 08:09 G	8224232.61	8224232.84	8224233.08	0.0088	0.0034
Moon	17805-01-31 10:48 G	8224232.73	8224232.95	8224233.20	0.0088	0.0031 *
Moon	17806-02-02 16:04 G	8224599.94	8224600.17	8224600.40	0.0088	0.0040
Earth	17806-02-02 19:12 G	8224600.09	8224600.30	8224600.56	0.0088	0.0037 *
Earth	17807-02-05 06:57 G	8224967.56	8224967.79	8224968.03	0.0088	0.0040



Moon	17807-02-05 10:04 G	8224967.71	8224967.92	8224968.17	0.0088	0.0037 *
Moon	17808-02-07 14:38 G	8225334.91	8225335.11	8225335.35	0.0088	0.0045
Earth	17808-02-07 18:14 G	8225335.05	8225335.26	8225335.50	0.0088	0.0042 *
Earth	17809-02-09 05:31 G	8225702.53	8225702.73	8225702.98	0.0088	0.0045
Moon	17809-02-09 08:24 G	8225702.62	8225702.85	8225703.09	0.0088	0.0042 *
Moon	17810-02-11 15:50 G	8226069.97	8226070.16	8226070.38	0.0088	0.0050
Earth	17810-02-11 17:16 G	8226070.02	8226070.22	8226070.46	0.0088	0.0047 *
Earth	17811-02-14 05:16 G	8226437.51	8226437.72	8226437.94	0.0088	0.0049
Moon	17811-02-14 05:31 G	8226437.52	8226437.73	8226437.98	0.0088	0.0047 *
Earth	17812-02-16 17:02 G	8226805.00	8226805.21	8226805.42	0.0088	0.0052
Moon	17812-02-16 18:00 G	8226805.06	8226805.25	8226805.46	0.0088	0.0055 *
Moon	17813-02-18 02:24 G	8227172.40	8227172.60	8227172.83	0.0088	0.0052
Earth	17813-02-18 04:04 G	8227172.49	8227172.67	8227172.90	0.0088	0.0055 *
Earth	17814-02-20 15:50 G	8227539.98	8227540.16	8227540.38	0.0088	0.0056
Moon	17814-02-20 18:43 G	8227540.11	8227540.28	8227540.49	0.0088	0.0059 *
Moon	17815-02-23 00:14 G	8227907.32	8227907.51	8227907.73	0.0088	0.0055
Earth	17815-02-23 03:36 G	8227907.48	8227907.65	8227907.87	0.0088	0.0059 *
Mars	17816-02-23 11:31 G	8228272.73	8228272.98	8228273.24	0.0088	0.0055
Earth	17816-02-25 15:21 G	8228274.97	8228275.14	8228275.35	0.0088	0.0060
Moon	17816-02-25 19:12 G	8228275.12	8228275.30	8228275.49	0.0088	0.0062 *
Moon	17817-02-26 23:45 G	8228642.32	8228642.49	8228642.69	0.0088	0.0061
Earth	17817-02-27 03:07 G	8228642.47	8228642.63	8228642.84	0.0088	0.0063 *
Mars	17818-01-18 13:40 G	8228967.79	8228968.07	8228968.39	0.0088	0.0031
Earth	17818-03-01 14:52 G	8229009.97	8229010.12	8229010.33	0.0088	0.0065
Moon	17818-03-01 17:45 G	8229010.07	8229010.24	8229010.42	0.0088	0.0066 *
Moon	17819-03-04 01:40 G	8229377.41	8229377.57	8229377.75	0.0088	0.0065
Earth	17819-03-04 03:21 G	8229377.48	8229377.64	8229377.82	0.0088	0.0066 *
Earth	17820-03-05 15:07 G	8229744.99	8229745.13	8229745.32	0.0088	0.0068
Moon	17820-03-05 15:36 G	8229745.01	8229745.15	8229745.34	0.0088	0.0069 *
Earth	17821-03-08 03:36 G	8230112.50	8230112.65	8230112.82	0.0088	0.0069

Moon	17821-03-08 04:19 G	8230112.54	8230112.68	8230112.87	0.0088	0.0068	*
Moon	17822-03-10 13:40 G	8230479.94	8230480.07	8230480.25	0.0088	0.0072	
Earth	17822-03-10 15:21 G	8230480.02	8230480.14	8230480.33	0.0088	0.0071	*
Earth	17823-03-13 04:04 G	8230847.53	8230847.67	8230847.84	0.0089	0.0072	
Moon	17823-03-13 06:57 G	8230847.65	8230847.79	8230847.96	0.0089	0.0071	*
Moon	17824-03-14 12:28 G	8231214.91	8231215.02	8231215.19	0.0089	0.0075	
Earth	17824-03-14 16:19 G	8231215.05	8231215.18	8231215.34	0.0089	0.0073	*
Earth	17825-03-17 04:48 G	8231582.56	8231582.70	8231582.85	0.0089	0.0074	
Moon	17825-03-17 08:09 G	8231582.71	8231582.84	8231582.99	0.0089	0.0074	*
Moon	17826-03-19 13:26 G	8231949.95	8231950.06	8231950.21	0.0089	0.0076	
Earth	17826-03-19 17:02 G	8231950.09	8231950.21	8231950.36	0.0089	0.0075	*
Earth	17827-03-22 05:16 G	8232317.60	8232317.72	8232317.87	0.0089	0.0076	
Moon	17827-03-22 07:55 G	8232317.70	8232317.83	8232317.98	0.0089	0.0075	*
Moon	17828-03-23 15:50 G	8232685.05	8232685.16	8232685.30	0.0089	0.0077	
Earth	17828-03-23 17:31 G	8232685.13	8232685.23	8232685.38	0.0089	0.0077	*
Earth	17829-03-26 05:45 G	8233052.64	8233052.74	8233052.89	0.0089	0.0078	
Moon	17829-03-26 06:43 G	8233052.66	8233052.78	8233052.92	0.0089	0.0077	*
Earth	17830-03-28 18:28 G	8233420.17	8233420.27	8233420.41	0.0089	0.0078	
Moon	17830-03-28 19:26 G	8233420.22	8233420.31	8233420.45	0.0089	0.0079	*
Moon	17831-03-31 05:16 G	8233787.63	8233787.72	8233787.87	0.0089	0.0079	
Earth	17831-03-31 06:57 G	8233787.70	8233787.79	8233787.94	0.0089	0.0079	*
Earth	17832-04-01 19:40 G	8234155.22	8234155.32	8234155.46	0.0089	0.0079	
Moon	17832-04-01 22:19 G	8234155.34	8234155.43	8234155.57	0.0089	0.0079	*
Moon	17833-04-04 04:48 G	8234522.61	8234522.70	8234522.85	0.0089	0.0079	
Earth	17833-04-04 08:38 G	8234522.76	8234522.86	8234522.99	0.0089	0.0079	*
Earth	17834-04-06 21:21 G	8234890.29	8234890.39	8234890.52	0.0089	0.0079	
Moon	17834-04-07 00:43 G	8234890.43	8234890.53	8234890.68	0.0089	0.0078	*
Moon	17835-04-09 06:43 G	8235257.69	8235257.78	8235257.91	0.0089	0.0080	
Earth	17835-04-09 10:19 G	8235257.83	8235257.93	8235258.06	0.0089	0.0079	*
Earth	17836-04-10 23:02 G	8235625.37	8235625.46	8235625.60	0.0089	0.0079	

Moon	17836-04-11 01:40 G	8235625.47	8235625.57	8235625.72	0.0089	0.0078	*
Moon	17837-04-13 10:04 G	8235992.83	8235992.92	8235993.04	0.0089	0.0080	
Earth	17837-04-13 11:45 G	8235992.90	8235992.99	8235993.14	0.0089	0.0079	*
Earth	17838-04-16 00:57 G	8236360.44	8236360.54	8236360.68	0.0089	0.0078	
Moon	17838-04-16 01:26 G	8236360.46	8236360.56	8236360.73	0.0089	0.0077	*
Earth	17839-04-18 13:40 G	8236727.97	8236728.07	8236728.22	0.0089	0.0078	
Moon	17839-04-18 14:24 G	8236728.01	8236728.10	8236728.24	0.0089	0.0079	*
Venus	17840-02-06 18:57 G	8237022.21	8237022.29	8237022.40	0.0089	0.0080	
Moon	17840-04-20 01:12 G	8237095.43	8237095.55	8237095.72	0.0089	0.0076	
Earth	17840-04-20 02:38 G	8237095.50	8237095.61	8237095.76	0.0089	0.0077	*
Venus	17840-09-19 08:09 G	8237247.69	8237247.84	8237248.02	0.0089	0.0060	
Earth	17841-04-22 15:50 G	8237463.04	8237463.16	8237463.30	0.0089	0.0076	
Moon	17841-04-22 18:28 G	8237463.16	8237463.27	8237463.40	0.0089	0.0078	*
Venus	17841-05-02 21:21 G	8237473.21	8237473.39	8237473.60	0.0089	0.0040	
Venus	17841-12-14 10:33 G	8237698.73	8237698.94	8237699.16	0.0089	0.0020	
Moon	17842-04-25 01:26 G	8237830.43	8237830.56	8237830.72	0.0089	0.0074	
Earth	17842-04-25 05:02 G	8237830.58	8237830.71	8237830.85	0.0089	0.0076	*
Venus	17842-07-28 00:00 G	8237924.28	8237924.50	8237924.72	0.0089	0.0001	
Venus	17843-03-10 12:57 G	8238149.84	8238150.04	8238150.27	0.0089	0.0022	
Earth	17843-04-27 17:45 G	8238198.11	8238198.24	8238198.40	0.0089	0.0075	
Moon	17843-04-27 21:07 G	8238198.27	8238198.38	8238198.53	0.0089	0.0078	*
Venus	17843-10-22 02:09 G	8238375.41	8238375.59	8238375.80	0.0089	0.0041	
Moon	17844-04-29 03:07 G	8238565.50	8238565.63	8238565.81	0.0089	0.0072	
Earth	17844-04-29 06:57 G	8238565.66	8238565.79	8238565.95	0.0089	0.0074	*
Venus	17844-06-03 15:21 G	8238600.99	8238601.14	8238601.31	0.0089	0.0062	
Venus	17845-01-15 04:48 G	8238826.62	8238826.70	8238826.79	0.0089	0.0082	
Earth	17845-05-01 19:40 G	8238933.20	8238933.32	8238933.50	0.0089	0.0073	
Moon	17845-05-01 23:02 G	8238933.32	8238933.46	8238933.61	0.0089	0.0075	*
Moon	17846-05-04 06:28 G	8239300.64	8239300.77	8239300.96	0.0089	0.0069	
Earth	17846-05-04 08:52 G	8239300.75	8239300.87	8239301.06	0.0089	0.0072	*

Mercury	17846-09-08 06:57 G	8239427.75	8239427.79	8239427.86	0.0089	0.0083
Mercury	17846-12-05 09:21 G	8239515.81	8239515.89	8239515.99	0.0089	0.0075
Mercury	17847-03-03 11:31 G	8239603.89	8239603.98	8239604.10	0.0089	0.0067
Earth	17847-05-06 22:33 G	8239668.29	8239668.44	8239668.62	0.0089	0.0069
Moon	17847-05-06 23:16 G	8239668.34	8239668.47	8239668.66	0.0089	0.0073 *
Mercury	17847-05-30 13:55 G	8239691.97	8239692.08	8239692.21	0.0089	0.0058
Mercury	17847-08-26 16:19 G	8239780.05	8239780.18	8239780.32	0.0089	0.0050
Mercury	17847-11-22 18:28 G	8239868.14	8239868.27	8239868.42	0.0089	0.0042
Mercury	17848-02-18 20:52 G	8239956.23	8239956.37	8239956.52	0.0089	0.0033
Earth	17848-05-08 11:16 G	8240035.84	8240035.97	8240036.17	0.0089	0.0069
Moon	17848-05-08 12:00 G	8240035.84	8240036.00	8240036.18	0.0089	0.0066 *
Mercury	17848-05-16 23:16 G	8240044.32	8240044.47	8240044.62	0.0089	0.0025
Mercury	17848-08-13 01:26 G	8240132.41	8240132.56	8240132.72	0.0089	0.0016
Mercury	17848-11-09 03:36 G	8240220.50	8240220.65	8240220.81	0.0089	0.0009
Mercury	17849-02-05 06:00 G	8240308.59	8240308.75	8240308.91	0.0089	0.0002
Mercury	17849-05-04 08:09 G	8240396.68	8240396.84	8240397.00	0.0089	0.0008
Moon	17849-05-11 00:00 G	8240403.35	8240403.50	8240403.69	0.0089	0.0069
Earth	17849-05-11 00:43 G	8240403.39	8240403.53	8240403.73	0.0089	0.0067 *
Mercury	17849-07-31 10:19 G	8240484.77	8240484.93	8240485.09	0.0089	0.0016
Mercury	17849-10-27 12:28 G	8240572.87	8240573.02	8240573.17	0.0089	0.0024
Mercury	17850-01-23 14:24 G	8240660.96	8240661.10	8240661.26	0.0089	0.0033
Mercury	17850-04-21 16:33 G	8240749.06	8240749.19	8240749.34	0.0089	0.0041
Earth	17850-05-13 14:09 G	8240770.93	8240771.09	8240771.29	0.0089	0.0065
Moon	17850-05-13 16:33 G	8240771.03	8240771.19	8240771.39	0.0089	0.0062 *
Mercury	17850-07-18 18:43 G	8240837.16	8240837.28	8240837.42	0.0089	0.0048
Mercury	17850-10-14 20:52 G	8240925.26	8240925.37	8240925.50	0.0089	0.0056
Mercury	17851-01-10 22:48 G	8241013.36	8241013.45	8241013.57	0.0089	0.0065
Mercury	17851-04-09 00:57 G	8241101.46	8241101.54	8241101.65	0.0089	0.0072
Moon	17851-05-16 00:00 G	8241138.35	8241138.50	8241138.70	0.0089	0.0066
Earth	17851-05-16 03:21 G	8241138.47	8241138.64	8241138.84	0.0089	0.0063 *

Mercury	17851-07-06 03:21 G	8241189.57	8241189.64	8241189.71	0.0089	0.0080
Mercury	17851-10-02 05:16 G	8241277.70	8241277.72	8241277.76	0.0089	0.0088
Earth	17852-05-17 16:33 G	8241506.01	8241506.19	8241506.39	0.0089	0.0061
Moon	17852-05-17 19:55 G	8241506.14	8241506.33	8241506.54	0.0089	0.0057 *
Moon	17853-05-20 01:40 G	8241873.41	8241873.57	8241873.78	0.0089	0.0063
Earth	17853-05-20 05:31 G	8241873.55	8241873.73	8241873.94	0.0089	0.0059 *
Earth	17854-05-22 18:43 G	8242241.09	8242241.28	8242241.49	0.0089	0.0057
Moon	17854-05-22 21:50 G	8242241.21	8242241.41	8242241.64	0.0089	0.0053 *
Moon	17855-05-25 05:02 G	8242608.54	8242608.71	8242608.92	0.0089	0.0059
Earth	17855-05-25 07:40 G	8242608.64	8242608.82	8242609.05	0.0089	0.0055 *
Earth	17856-05-26 20:38 G	8242976.17	8242976.36	8242976.59	0.0089	0.0053
Moon	17856-05-26 22:33 G	8242976.22	8242976.44	8242976.67	0.0089	0.0048 *
Earth	17857-05-29 10:04 G	8243343.72	8243343.92	8243344.15	0.0089	0.0050
Moon	17857-05-29 09:50 G	8243343.73	8243343.91	8243344.12	0.0089	0.0054 *
Moon	17858-05-31 23:02 G	8243711.23	8243711.46	8243711.70	0.0089	0.0043
Earth	17858-05-31 23:16 G	8243711.27	8243711.47	8243711.71	0.0089	0.0048 *
Earth	17859-06-03 12:28 G	8244078.81	8244079.02	8244079.26	0.0089	0.0045
Moon	17859-06-03 14:52 G	8244078.91	8244079.12	8244079.34	0.0089	0.0049 *
Moon	17860-06-04 22:48 G	8244446.23	8244446.45	8244446.71	0.0089	0.0039
Earth	17860-06-05 01:40 G	8244446.36	8244446.57	8244446.82	0.0089	0.0043 *
Earth	17861-06-07 15:07 G	8244813.91	8244814.13	8244814.37	0.0089	0.0040
Moon	17861-06-07 18:14 G	8244814.06	8244814.26	8244814.50	0.0089	0.0045 *
Moon	17862-06-10 00:28 G	8245181.30	8245181.52	8245181.78	0.0090	0.0033
Earth	17862-06-10 04:19 G	8245181.46	8245181.68	8245181.93	0.0090	0.0037 *
Earth	17863-06-12 17:31 G	8245549.00	8245549.23	8245549.47	0.0090	0.0034
Moon	17863-06-12 20:24 G	8245549.14	8245549.35	8245549.61	0.0090	0.0039 *
Moon	17864-06-14 03:21 G	8245916.41	8245916.64	8245916.90	0.0090	0.0027
Earth	17864-06-14 06:14 G	8245916.54	8245916.76	8245917.02	0.0090	0.0032 *
Earth	17865-06-16 19:12 G	8246284.07	8246284.30	8246284.56	0.0090	0.0029
Moon	17865-06-16 21:07 G	8246284.14	8246284.38	8246284.64	0.0090	0.0033 *

Moon	17866-06-19 07:40 G	8246651.59	8246651.82	8246652.07	0.0090	0.0022
Earth	17866-06-19 08:24 G	8246651.61	8246651.85	8246652.11	0.0090	0.0026 *
Moon	17867-06-21 21:07 G	8247019.13	8247019.38	8247019.64	0.0090	0.0027
Earth	17867-06-21 21:07 G	8247019.14	8247019.38	8247019.64	0.0090	0.0023 *
Earth	17868-06-23 10:04 G	8247386.68	8247386.92	8247387.18	0.0090	0.0020
Moon	17868-06-23 12:00 G	8247386.76	8247387.00	8247387.25	0.0090	0.0015 *
Moon	17869-06-25 20:38 G	8247754.11	8247754.36	8247754.62	0.0090	0.0021
Earth	17869-06-25 23:02 G	8247754.22	8247754.46	8247754.73	0.0090	0.0017 *
Earth	17870-06-28 12:00 G	8248121.75	8248122.00	8248122.26	0.0090	0.0014
Moon	17870-06-28 15:21 G	8248121.89	8248122.14	8248122.39	0.0090	0.0009 *
Moon	17871-06-30 21:21 G	8248489.14	8248489.39	8248489.65	0.0090	0.0015
Earth	17871-07-01 00:57 G	8248489.29	8248489.54	8248489.81	0.0090	0.0011 *
Earth	17872-07-02 13:55 G	8248856.83	8248857.08	8248857.34	0.0090	0.0008
Moon	17872-07-02 17:31 G	8248856.97	8248857.23	8248857.49	0.0090	0.0003 *
Moon	17873-07-05 00:00 G	8249224.25	8249224.50	8249224.75	0.0089	0.0009
Earth	17873-07-05 03:07 G	8249224.37	8249224.63	8249224.89	0.0089	0.0004 *
Earth	17874-07-07 16:04 G	8249591.91	8249592.17	8249592.42	0.0089	0.0002
Moon	17874-07-07 18:00 G	8249591.98	8249592.25	8249592.51	0.0089	0.0003 *
Moon	17875-07-10 03:36 G	8249959.40	8249959.65	8249959.90	0.0089	0.0002
Earth	17875-07-10 04:33 G	8249959.44	8249959.69	8249959.95	0.0089	0.0003 *
Moon	17876-07-11 17:16 G	8250326.96	8250327.22	8250327.49	0.0089	0.0010
Earth	17876-07-11 17:16 G	8250326.97	8250327.22	8250327.48	0.0089	0.0005 *
Earth	17877-07-14 06:00 G	8250694.50	8250694.75	8250695.01	0.0089	0.0008
Moon	17877-07-14 07:40 G	8250694.57	8250694.82	8250695.07	0.0089	0.0004 *
Moon	17878-07-16 16:04 G	8251061.92	8251062.17	8251062.44	0.0089	0.0015
Earth	17878-07-16 18:14 G	8251062.02	8251062.26	8251062.53	0.0089	0.0012 *
Earth	17879-07-19 06:43 G	8251429.54	8251429.78	8251430.05	0.0089	0.0015
Moon	17879-07-19 10:04 G	8251429.67	8251429.92	8251430.17	0.0089	0.0010 *
Moon	17880-07-20 15:50 G	8251796.91	8251797.16	8251797.41	0.0089	0.0022
Earth	17880-07-20 19:12 G	8251797.06	8251797.30	8251797.57	0.0089	0.0018 *

Earth	17881-07-23 07:40 G	8252164.58	8252164.82	8252165.08	0.0089	0.0020
Moon	17881-07-23 11:16 G	8252164.72	8252164.97	8252165.23	0.0089	0.0016 *
Moon	17882-07-25 16:48 G	8252531.97	8252532.20	8252532.46	0.0089	0.0027
Earth	17882-07-25 20:24 G	8252532.10	8252532.35	8252532.60	0.0089	0.0023 *
Earth	17883-07-28 08:38 G	8252899.61	8252899.86	8252900.11	0.0089	0.0026
Moon	17883-07-28 10:33 G	8252899.69	8252899.94	8252900.20	0.0089	0.0022 *
Moon	17884-07-29 19:40 G	8253267.09	8253267.32	8253267.55	0.0089	0.0032
Earth	17884-07-29 20:52 G	8253267.14	8253267.37	8253267.62	0.0089	0.0029 *
Moon	17885-08-01 09:36 G	8253634.65	8253634.90	8253635.16	0.0089	0.0028
Earth	17885-08-01 09:07 G	8253634.66	8253634.88	8253635.14	0.0089	0.0032 *
Earth	17886-08-03 21:21 G	8254002.17	8254002.39	8254002.64	0.0089	0.0034
Moon	17886-08-03 23:02 G	8254002.24	8254002.46	8254002.69	0.0089	0.0038 *
Moon	17887-08-06 07:26 G	8254369.58	8254369.81	8254370.07	0.0089	0.0034
Earth	17887-08-06 09:50 G	8254369.68	8254369.91	8254370.15	0.0089	0.0037 *
Earth	17888-08-07 21:36 G	8254737.19	8254737.40	8254737.65	0.0089	0.0040
Moon	17888-08-08 01:12 G	8254737.33	8254737.55	8254737.77	0.0089	0.0043 *
Moon	17889-08-10 06:00 G	8255104.54	8255104.75	8255105.01	0.0089	0.0039
Earth	17889-08-10 10:04 G	8255104.70	8255104.92	8255105.15	0.0089	0.0042 *
Earth	17890-08-12 21:36 G	8255472.19	8255472.40	8255472.64	0.0089	0.0044
Moon	17890-08-13 00:57 G	8255472.34	8255472.54	8255472.78	0.0089	0.0047 *
Moon	17891-08-15 06:14 G	8255839.55	8255839.76	8255839.99	0.0089	0.0043
Earth	17891-08-15 09:36 G	8255839.69	8255839.90	8255840.13	0.0089	0.0047 *
Earth	17892-08-16 21:21 G	8256207.18	8256207.39	8256207.61	0.0089	0.0049
Moon	17892-08-16 23:45 G	8256207.27	8256207.49	8256207.70	0.0089	0.0052 *
Moon	17893-08-19 07:55 G	8256574.62	8256574.83	8256575.04	0.0089	0.0049
Earth	17893-08-19 08:52 G	8256574.68	8256574.87	8256575.10	0.0089	0.0051 *
Earth	17894-08-21 20:24 G	8256942.17	8256942.35	8256942.58	0.0089	0.0054
Moon	17894-08-21 20:24 G	8256942.17	8256942.35	8256942.59	0.0089	0.0057 *
Earth	17895-08-24 08:09 G	8257309.66	8257309.84	8257310.06	0.0089	0.0056
Moon	17895-08-24 09:50 G	8257309.72	8257309.91	8257310.12	0.0089	0.0052 *

Moon	17896-08-25 18:14 G	8257677.07	8257677.26	8257677.46	0.0089	0.0059
Earth	17896-08-25 19:55 G	8257677.15	8257677.33	8257677.55	0.0089	0.0057 *
Earth	17897-08-28 07:26 G	8258044.64	8258044.81	8258045.02	0.0089	0.0059
Moon	17897-08-28 10:48 G	8258044.77	8258044.95	8258045.16	0.0089	0.0057 *
Mars	17897-11-04 21:21 G	8258113.11	8258113.39	8258113.68	0.0089	0.0034
Moon	17898-08-30 15:36 G	8258411.99	8258412.15	8258412.35	0.0089	0.0064
Earth	17898-08-30 18:57 G	8258412.13	8258412.29	8258412.51	0.0089	0.0061 *
Earth	17899-09-02 06:57 G	8258779.61	8258779.79	8258779.98	0.0089	0.0062
Moon	17899-09-02 09:50 G	8258779.75	8258779.91	8258780.13	0.0089	0.0061 *
Mars	17899-09-30 09:07 G	8258807.65	8258807.88	8258808.17	0.0089	0.0049
Moon	17900-09-04 15:21 G	8259146.98	8259147.14	8259147.31	0.0089	0.0066
Earth	17900-09-04 18:00 G	8259147.10	8259147.25	8259147.45	0.0089	0.0064 *
Earth	17901-09-07 05:45 G	8259514.57	8259514.74	8259514.92	0.0089	0.0065
Moon	17901-09-07 07:40 G	8259514.65	8259514.82	8259515.02	0.0089	0.0063 *
Moon	17902-09-09 14:52 G	8259881.99	8259882.12	8259882.31	0.0089	0.0069
Earth	17902-09-09 16:33 G	8259882.04	8259882.19	8259882.38	0.0089	0.0067 *
Moon	17903-09-12 03:36 G	8260249.50	8260249.65	8260249.85	0.0089	0.0066
Earth	17903-09-12 03:50 G	8260249.51	8260249.66	8260249.84	0.0089	0.0068 *
Earth	17904-09-13 15:07 G	8260616.98	8260617.13	8260617.30	0.0089	0.0069
Moon	17904-09-13 16:19 G	8260617.06	8260617.18	8260617.35	0.0089	0.0072 *
Moon	17905-09-15 23:31 G	8260984.34	8260984.48	8260984.68	0.0089	0.0069
Earth	17905-09-16 01:40 G	8260984.45	8260984.57	8260984.76	0.0089	0.0071 *
Earth	17906-09-18 13:26 G	8261351.91	8261352.06	8261352.21	0.0089	0.0071
Moon	17906-09-18 16:33 G	8261352.06	8261352.19	8261352.34	0.0089	0.0073 *
Moon	17907-09-20 20:38 G	8261719.22	8261719.36	8261719.53	0.0089	0.0070
Earth	17907-09-21 00:28 G	8261719.37	8261719.52	8261719.67	0.0089	0.0072 *
Earth	17908-09-22 11:02 G	8262086.83	8262086.96	8262087.12	0.0089	0.0073
Moon	17908-09-22 14:24 G	8262086.98	8262087.10	8262087.27	0.0089	0.0074 *
Moon	17909-09-24 19:12 G	8262454.17	8262454.30	8262454.46	0.0089	0.0072
Earth	17909-09-24 22:04 G	8262454.30	8262454.42	8262454.58	0.0089	0.0074 *



Earth	17910-09-27 09:07 G	8262821.75	8262821.88	8262822.03	0.0089	0.0074
Moon	17910-09-27 10:33 G	8262821.84	8262821.94	8262822.11	0.0089	0.0076 *
Moon	17911-09-29 18:57 G	8263189.17	8263189.29	8263189.44	0.0089	0.0074
Earth	17911-09-29 19:55 G	8263189.22	8263189.33	8263189.49	0.0089	0.0075 *
Moon	17912-10-01 06:43 G	8263556.66	8263556.78	8263556.93	0.0089	0.0076
Earth	17912-10-01 06:57 G	8263556.67	8263556.79	8263556.95	0.0089	0.0075 *
Earth	17913-10-03 17:45 G	8263924.12	8263924.24	8263924.39	0.0089	0.0075
Moon	17913-10-03 19:26 G	8263924.19	8263924.31	8263924.46	0.0089	0.0074 *
Moon	17914-10-06 02:09 G	8264291.47	8264291.59	8264291.74	0.0089	0.0076
Earth	17914-10-06 04:48 G	8264291.57	8264291.70	8264291.84	0.0089	0.0075 *
Earth	17915-10-08 15:21 G	8264659.01	8264659.14	8264659.28	0.0088	0.0075
Moon	17915-10-08 18:57 G	8264659.15	8264659.29	8264659.42	0.0088	0.0074 *
Moon	17916-10-09 21:50 G	8265026.32	8265026.41	8265026.57	0.0088	0.0077
Earth	17916-10-10 01:40 G	8265026.45	8265026.57	8265026.72	0.0088	0.0075 *
Earth	17917-10-12 12:14 G	8265393.89	8265394.01	8265394.16	0.0088	0.0075
Moon	17917-10-12 15:36 G	8265394.03	8265394.15	8265394.31	0.0088	0.0075 *
Moon	17918-10-14 19:40 G	8265761.22	8265761.32	8265761.48	0.0088	0.0076
Earth	17918-10-14 22:33 G	8265761.33	8265761.44	8265761.60	0.0088	0.0075 *
Earth	17919-10-17 09:21 G	8266128.76	8266128.89	8266129.04	0.0088	0.0074
Moon	17919-10-17 11:16 G	8266128.82	8266128.97	8266129.12	0.0088	0.0073 *
Moon	17920-10-18 18:43 G	8266496.17	8266496.28	8266496.44	0.0088	0.0074
Earth	17920-10-18 19:40 G	8266496.20	8266496.32	8266496.48	0.0088	0.0073 *
Venus	17921-08-13 05:02 G	8266794.62	8266794.71	8266794.85	0.0088	0.0075
Moon	17921-10-21 05:31 G	8266863.59	8266863.73	8266863.90	0.0088	0.0072
Earth	17921-10-21 06:14 G	8266863.63	8266863.76	8266863.92	0.0088	0.0073 *
Venus	17922-03-26 18:14 G	8267020.10	8267020.26	8267020.44	0.0088	0.0054
Earth	17922-10-23 16:48 G	8267231.07	8267231.20	8267231.36	0.0088	0.0072
Moon	17922-10-23 18:57 G	8267231.16	8267231.29	8267231.44	0.0088	0.0073 *
Venus	17922-11-07 07:12 G	8267245.60	8267245.80	8267246.00	0.0088	0.0035
Venus	17923-06-20 19:55 G	8267471.12	8267471.33	8267471.55	0.0088	0.0015

Moon	17923-10-26 00:43 G	8267598.39	8267598.53	8267598.70	0.0088	0.0071
Earth	17923-10-26 03:36 G	8267598.51	8267598.65	8267598.81	0.0088	0.0071 *
Venus	17924-02-01 08:52 G	8267696.65	8267696.87	8267697.09	0.0088	0.0005
Venus	17924-09-13 21:36 G	8267922.20	8267922.40	8267922.62	0.0088	0.0025
Earth	17924-10-27 13:55 G	8267965.93	8267966.08	8267966.25	0.0088	0.0070
Moon	17924-10-27 17:02 G	8267966.09	8267966.21	8267966.39	0.0088	0.0071 *
Venus	17925-04-27 10:19 G	8268147.75	8268147.93	8268148.13	0.0088	0.0044
Moon	17925-10-29 20:38 G	8268333.22	8268333.36	8268333.54	0.0088	0.0068
Earth	17925-10-30 00:28 G	8268333.37	8268333.52	8268333.69	0.0088	0.0069 *
Venus	17925-12-08 23:16 G	8268373.32	8268373.47	8268373.62	0.0088	0.0064
Venus	17926-07-22 11:45 G	8268598.94	8268598.99	8268599.08	0.0088	0.0083
Earth	17926-11-01 10:33 G	8268700.79	8268700.94	8268701.12	0.0088	0.0067
Moon	17926-11-01 14:09 G	8268700.93	8268701.09	8268701.27	0.0088	0.0067 *
Moon	17927-11-03 18:14 G	8269068.12	8269068.26	8269068.45	0.0088	0.0066
Earth	17927-11-03 20:38 G	8269068.22	8269068.36	8269068.55	0.0088	0.0067 *
Mercury	17927-12-11 07:26 G	8269105.78	8269105.81	8269105.83	0.0088	0.0087
Mercury	17928-03-08 09:07 G	8269193.82	8269193.88	8269193.95	0.0088	0.0079
Mercury	17928-06-04 11:02 G	8269281.88	8269281.96	8269282.06	0.0088	0.0072
Mercury	17928-08-31 13:12 G	8269369.95	8269370.05	8269370.16	0.0088	0.0064
Earth	17928-11-05 06:43 G	8269435.64	8269435.78	8269435.98	0.0088	0.0066
Moon	17928-11-05 08:38 G	8269435.69	8269435.86	8269436.05	0.0088	0.0065 *
Mercury	17928-11-27 14:52 G	8269458.02	8269458.12	8269458.25	0.0088	0.0057
Mercury	17929-02-23 17:02 G	8269546.09	8269546.21	8269546.35	0.0088	0.0050
Mercury	17929-05-22 18:57 G	8269634.17	8269634.29	8269634.44	0.0088	0.0042
Mercury	17929-08-18 21:07 G	8269722.24	8269722.38	8269722.53	0.0088	0.0034
Moon	17929-11-07 16:33 G	8269803.05	8269803.19	8269803.38	0.0088	0.0064
Earth	17929-11-07 17:16 G	8269803.06	8269803.22	8269803.41	0.0088	0.0063 *
Mercury	17929-11-14 23:02 G	8269810.32	8269810.46	8269810.62	0.0088	0.0027
Mercury	17930-02-11 01:12 G	8269898.40	8269898.55	8269898.71	0.0088	0.0019
Mercury	17930-05-10 03:21 G	8269986.48	8269986.64	8269986.79	0.0088	0.0011

Mercury	17930-08-06 05:16 G	8270074.57	8270074.72	8270074.88	0.0088	0.0005
Mercury	17930-11-02 07:26 G	8270162.65	8270162.81	8270162.97	0.0088	0.0004
Moon	17930-11-10 01:55 G	8270170.42	8270170.58	8270170.80	0.0088	0.0062
Earth	17930-11-10 03:21 G	8270170.48	8270170.64	8270170.84	0.0088	0.0062 *
Mercury	17931-01-29 09:21 G	8270250.74	8270250.89	8270251.05	0.0088	0.0012
Mercury	17931-04-27 11:31 G	8270338.83	8270338.98	8270339.14	0.0088	0.0020
Mercury	17931-07-24 13:40 G	8270426.92	8270427.07	8270427.22	0.0088	0.0027
Mercury	17931-10-20 15:36 G	8270515.01	8270515.15	8270515.30	0.0088	0.0035
Earth	17931-11-12 13:40 G	8270537.90	8270538.07	8270538.27	0.0088	0.0060
Moon	17931-11-12 16:04 G	8270538.00	8270538.17	8270538.37	0.0088	0.0060 *
Mercury	17932-01-16 17:45 G	8270603.11	8270603.24	8270603.38	0.0088	0.0043
Mercury	17932-04-13 19:40 G	8270691.21	8270691.32	8270691.46	0.0088	0.0051
Mercury	17932-07-10 21:50 G	8270779.31	8270779.41	8270779.54	0.0088	0.0059
Mercury	17932-10-07 00:14 G	8270867.41	8270867.51	8270867.62	0.0088	0.0067
Moon	17932-11-13 20:52 G	8270905.19	8270905.37	8270905.59	0.0088	0.0058
Earth	17932-11-14 00:14 G	8270905.32	8270905.51	8270905.70	0.0088	0.0058 *
Mercury	17933-01-03 02:24 G	8270955.52	8270955.60	8270955.68	0.0088	0.0074
Mercury	17933-04-01 04:33 G	8271043.64	8271043.69	8271043.74	0.0088	0.0082
Earth	17933-11-16 09:50 G	8271272.74	8271272.91	8271273.13	0.0088	0.0057
Moon	17933-11-16 13:40 G	8271272.90	8271273.07	8271273.28	0.0088	0.0057 *
Moon	17934-11-18 17:02 G	8271640.03	8271640.21	8271640.42	0.0088	0.0055
Earth	17934-11-18 20:09 G	8271640.17	8271640.34	8271640.57	0.0088	0.0055 *
Earth	17935-11-21 06:28 G	8272007.59	8272007.77	8272008.00	0.0088	0.0053
Moon	17935-11-21 09:50 G	8272007.72	8272007.91	8272008.13	0.0088	0.0054 *
Jupiter	17936-06-16 13:12 G	8272215.63	8272216.05	8272216.53	0.0088	0.0054
Moon	17936-11-22 15:21 G	8272374.93	8272375.14	8272375.34	0.0088	0.0050
Earth	17936-11-22 17:02 G	8272375.02	8272375.21	8272375.43	0.0088	0.0051 *
Earth	17937-11-25 03:07 G	8272742.44	8272742.63	8272742.86	0.0088	0.0049
Moon	17937-11-25 04:04 G	8272742.46	8272742.67	8272742.90	0.0088	0.0049 *
Earth	17938-11-27 13:26 G	8273109.86	8273110.06	8273110.30	0.0088	0.0047

Moon	17938-11-27 13:26 G	8273109.87	8273110.06	8273110.29	0.0088	0.0046 *
Moon	17939-11-29 22:04 G	8273477.21	8273477.42	8273477.66	0.0088	0.0045
Earth	17939-11-30 00:00 G	8273477.29	8273477.50	8273477.73	0.0088	0.0044 *
Earth	17940-12-01 10:04 G	8273844.70	8273844.92	8273845.15	0.0088	0.0042
Moon	17940-12-01 12:28 G	8273844.82	8273845.02	8273845.26	0.0088	0.0042 *
Moon	17941-12-03 17:02 G	8274211.99	8274212.21	8274212.45	0.0088	0.0041
Earth	17941-12-03 20:09 G	8274212.13	8274212.34	8274212.59	0.0088	0.0040 *
Earth	17942-12-06 06:43 G	8274579.55	8274579.78	8274580.01	0.0088	0.0037
Moon	17942-12-06 10:33 G	8274579.70	8274579.94	8274580.17	0.0088	0.0036 *
Moon	17943-12-08 13:26 G	8274946.84	8274947.06	8274947.31	0.0088	0.0036
Earth	17943-12-08 16:48 G	8274946.97	8274947.20	8274947.45	0.0088	0.0035 *
Earth	17944-12-10 02:52 G	8275314.40	8275314.62	8275314.87	0.0088	0.0033
Moon	17944-12-10 06:00 G	8275314.52	8275314.75	8275315.01	0.0088	0.0031 *
Moon	17945-12-12 11:31 G	8275681.76	8275681.98	8275682.23	0.0088	0.0031
Earth	17945-12-12 13:12 G	8275681.82	8275682.05	8275682.30	0.0088	0.0030 *
Earth	17946-12-14 23:45 G	8276049.25	8276049.49	8276049.74	0.0088	0.0027
Moon	17946-12-15 00:14 G	8276049.26	8276049.51	8276049.77	0.0088	0.0026 *
Earth	17947-12-17 10:04 G	8276416.69	8276416.92	8276417.18	0.0088	0.0025
Moon	17947-12-17 10:48 G	8276416.71	8276416.95	8276417.19	0.0088	0.0026 *
Moon	17948-12-18 18:28 G	8276784.02	8276784.27	8276784.53	0.0088	0.0021
Earth	17948-12-18 20:38 G	8276784.12	8276784.36	8276784.62	0.0088	0.0022 *
Earth	17949-12-21 07:12 G	8277151.55	8277151.80	8277152.06	0.0088	0.0019
Moon	17949-12-21 10:04 G	8277151.68	8277151.92	8277152.17	0.0088	0.0020 *
Moon	17950-12-23 14:24 G	8277518.85	8277519.10	8277519.36	0.0088	0.0015
Earth	17950-12-23 17:45 G	8277518.99	8277519.24	8277519.50	0.0088	0.0017 *
Earth	17951-12-26 04:04 G	8277886.43	8277886.67	8277886.93	0.0088	0.0014
Moon	17951-12-26 08:09 G	8277886.58	8277886.84	8277887.09	0.0088	0.0015 *
Moon	17952-12-27 11:45 G	8278253.74	8278253.99	8278254.25	0.0088	0.0010
Earth	17952-12-27 14:52 G	8278253.87	8278254.12	8278254.38	0.0088	0.0011 *
Earth	17953-12-30 01:12 G	8278621.30	8278621.55	8278621.81	0.0088	0.0008

Moon	17953-12-30 04:04 G	8278621.41	8278621.67	8278621.94	0.0088	0.0011	*
Moon	17955-01-01 10:33 G	8278988.69	8278988.94	8278989.19	0.0088	0.0004	
Earth	17955-01-01 11:45 G	8278988.74	8278988.99	8278989.26	0.0088	0.0006	*
Moon	17956-01-03 22:33 G	8279356.17	8279356.44	8279356.71	0.0088	0.0004	
Earth	17956-01-03 22:33 G	8279356.18	8279356.44	8279356.70	0.0088	0.0003	*
Earth	17957-01-05 08:52 G	8279723.62	8279723.87	8279724.13	0.0088	0.0002	
Moon	17957-01-05 09:50 G	8279723.66	8279723.91	8279724.16	0.0088	0.0002	*
Moon	17958-01-07 17:16 G	8280090.95	8280091.22	8280091.48	0.0088	0.0002	
Earth	17958-01-07 19:40 G	8280091.06	8280091.32	8280091.58	0.0088	0.0003	*
Earth	17959-01-10 06:14 G	8280458.51	8280458.76	8280459.02	0.0088	0.0006	
Moon	17959-01-10 09:21 G	8280458.64	8280458.89	8280459.14	0.0088	0.0007	*
Moon	17960-01-12 13:40 G	8280825.81	8280826.07	8280826.33	0.0088	0.0006	
Earth	17960-01-12 17:02 G	8280825.96	8280826.21	8280826.47	0.0088	0.0009	*
Earth	17961-01-14 03:50 G	8281193.41	8281193.66	8281193.92	0.0088	0.0011	
Moon	17961-01-14 07:26 G	8281193.56	8281193.81	8281194.07	0.0088	0.0014	*
Moon	17962-01-16 12:00 G	8281560.75	8281561.00	8281561.25	0.0088	0.0012	
Earth	17962-01-16 14:52 G	8281560.87	8281561.12	8281561.38	0.0088	0.0014	*
Earth	17963-01-19 01:40 G	8281928.32	8281928.57	8281928.83	0.0088	0.0017	
Moon	17963-01-19 04:19 G	8281928.43	8281928.68	8281928.95	0.0088	0.0020	*
Moon	17964-01-21 11:45 G	8282295.75	8282295.99	8282296.24	0.0088	0.0017	
Earth	17964-01-21 12:43 G	8282295.79	8282296.03	8282296.29	0.0088	0.0020	*
Moon	17965-01-22 23:31 G	8282663.23	8282663.48	8282663.74	0.0088	0.0024	
Earth	17965-01-22 23:45 G	8282663.24	8282663.49	8282663.74	0.0088	0.0022	*
Earth	17966-01-25 10:33 G	8283030.70	8283030.94	8283031.20	0.0088	0.0025	
Moon	17966-01-25 11:45 G	8283030.75	8283030.99	8283031.24	0.0088	0.0022	*
Moon	17967-01-27 18:43 G	8283398.05	8283398.28	8283398.55	0.0088	0.0030	
Earth	17967-01-27 21:50 G	8283398.17	8283398.41	8283398.66	0.0088	0.0027	*
Earth	17968-01-30 08:38 G	8283765.63	8283765.86	8283766.11	0.0088	0.0030	
Moon	17968-01-30 12:00 G	8283765.76	8283766.00	8283766.24	0.0088	0.0027	*
Moon	17969-01-31 16:04 G	8284132.95	8284133.17	8284133.42	0.0088	0.0036	

Earth	17969-01-31 19:55 G	8284133.10	8284133.33	8284133.58	0.0088	0.0032 *
Earth	17970-02-03 06:43 G	8284500.56	8284500.78	8284501.04	0.0088	0.0035
Moon	17970-02-03 10:33 G	8284500.71	8284500.94	8284501.19	0.0088	0.0032 *
Moon	17971-02-05 15:21 G	8284867.93	8284868.14	8284868.38	0.0088	0.0040
Earth	17971-02-05 18:14 G	8284868.03	8284868.26	8284868.50	0.0088	0.0037 *
Earth	17972-02-08 05:16 G	8285235.51	8285235.72	8285235.97	0.0088	0.0040
Moon	17972-02-08 07:55 G	8285235.60	8285235.83	8285236.08	0.0088	0.0036 *
Moon	17973-02-09 16:04 G	8285602.96	8285603.17	8285603.39	0.0088	0.0045
Earth	17973-02-09 16:48 G	8285602.98	8285603.20	8285603.44	0.0088	0.0042 *
Moon	17974-02-12 04:04 G	8285970.44	8285970.67	8285970.92	0.0088	0.0042
Earth	17974-02-12 04:19 G	8285970.47	8285970.68	8285970.92	0.0088	0.0045 *
Earth	17975-02-14 16:04 G	8286337.96	8286338.17	8286338.40	0.0088	0.0047
Moon	17975-02-14 17:02 G	8286338.02	8286338.21	8286338.43	0.0088	0.0050 *
Moon	17976-02-17 00:57 G	8286705.31	8286705.54	8286705.77	0.0088	0.0046
Earth	17976-02-17 03:21 G	8286705.44	8286705.64	8286705.87	0.0088	0.0049 *
Earth	17977-02-18 14:52 G	8287072.93	8287073.12	8287073.35	0.0088	0.0051
Moon	17977-02-18 18:14 G	8287073.07	8287073.26	8287073.47	0.0088	0.0054 *
Moon	17978-02-20 23:02 G	8287440.27	8287440.46	8287440.70	0.0088	0.0050
Earth	17978-02-21 02:38 G	8287440.43	8287440.61	8287440.84	0.0088	0.0054 *
Earth	17979-02-23 14:09 G	8287807.92	8287808.09	8287808.32	0.0088	0.0056
Moon	17979-02-23 18:00 G	8287808.07	8287808.25	8287808.46	0.0088	0.0059 *
Mars	17979-10-08 22:04 G	8288035.41	8288035.42	8288035.51	0.0088	0.0088
Moon	17980-02-25 23:16 G	8288175.29	8288175.47	8288175.70	0.0088	0.0054
Earth	17980-02-26 02:38 G	8288175.41	8288175.61	8288175.81	0.0088	0.0057 *
Earth	17981-02-27 13:55 G	8288542.90	8288543.08	8288543.29	0.0088	0.0059
Moon	17981-02-27 16:19 G	8288543.01	8288543.18	8288543.39	0.0088	0.0063 *
Mars	17981-09-03 02:38 G	8288730.29	8288730.61	8288730.94	0.0088	0.0002
Moon	17982-03-02 01:12 G	8288910.37	8288910.55	8288910.76	0.0088	0.0057
Earth	17982-03-02 01:40 G	8288910.41	8288910.57	8288910.78	0.0088	0.0061 *
Moon	17983-03-04 13:12 G	8289277.90	8289278.05	8289278.26	0.0088	0.0066

Earth	17983-03-04 13:55 G	8289277.91	8289278.08	8289278.28	0.0088	0.0062 *
Mars	17983-07-30 03:50 G	8289425.58	8289425.66	8289425.81	0.0088	0.0083
Earth	17984-03-06 01:26 G	8289645.41	8289645.56	8289645.77	0.0088	0.0064
Moon	17984-03-06 02:52 G	8289645.45	8289645.62	8289645.82	0.0088	0.0060 *
Moon	17985-03-08 10:48 G	8290012.81	8290012.95	8290013.14	0.0088	0.0069
Earth	17985-03-08 13:55 G	8290012.92	8290013.08	8290013.27	0.0088	0.0065 *
Earth	17986-03-11 01:40 G	8290380.43	8290380.57	8290380.77	0.0088	0.0067
Moon	17986-03-11 04:48 G	8290380.55	8290380.70	8290380.91	0.0088	0.0063 *
Moon	17987-03-13 10:33 G	8290747.81	8290747.94	8290748.11	0.0088	0.0072
Earth	17987-03-13 14:09 G	8290747.95	8290748.09	8290748.28	0.0088	0.0068 *
Earth	17988-03-15 02:24 G	8291115.46	8291115.60	8291115.79	0.0089	0.0069
Moon	17988-03-15 06:28 G	8291115.59	8291115.77	8291115.95	0.0089	0.0064 *
Moon	17989-03-17 12:00 G	8291482.88	8291483.00	8291483.16	0.0089	0.0074
Earth	17989-03-17 14:52 G	8291482.98	8291483.12	8291483.30	0.0089	0.0070 *
Earth	17990-03-20 03:07 G	8291850.50	8291850.63	8291850.82	0.0089	0.0071
Moon	17990-03-20 06:00 G	8291850.59	8291850.75	8291850.94	0.0089	0.0066 *
Moon	17991-03-22 14:52 G	8292218.02	8292218.12	8292218.27	0.0089	0.0076
Earth	17991-03-22 16:04 G	8292218.03	8292218.17	8292218.33	0.0089	0.0071 *
Moon	17992-03-24 04:04 G	8292585.52	8292585.67	8292585.86	0.0089	0.0068
Earth	17992-03-24 04:04 G	8292585.54	8292585.67	8292585.84	0.0089	0.0072 *
Earth	17993-03-26 16:19 G	8292953.06	8292953.18	8292953.36	0.0089	0.0073
Moon	17993-03-26 18:00 G	8292953.13	8292953.25	8292953.38	0.0089	0.0077 *
Moon	17994-03-29 02:09 G	8293320.45	8293320.59	8293320.79	0.0089	0.0069
Earth	17994-03-29 05:16 G	8293320.59	8293320.72	8293320.88	0.0089	0.0073 *
Earth	17995-03-31 17:45 G	8293688.10	8293688.24	8293688.39	0.0089	0.0073
Moon	17995-03-31 20:24 G	8293688.25	8293688.35	8293688.49	0.0089	0.0078 *
Moon	17996-04-02 02:24 G	8294055.46	8294055.60	8294055.79	0.0089	0.0069
Earth	17996-04-02 06:00 G	8294055.63	8294055.75	8294055.92	0.0089	0.0074 *
Earth	17997-04-04 18:43 G	8294423.16	8294423.28	8294423.44	0.0089	0.0074
Moon	17997-04-04 22:04 G	8294423.33	8294423.42	8294423.57	0.0089	0.0079 *

Moon	17998-04-07 04:19 G	8294790.55	8294790.68	8294790.86	0.0089	0.0070
Earth	17998-04-07 07:26 G	8294790.69	8294790.81	8294790.98	0.0089	0.0074 *
Earth	17999-04-09 20:09 G	8295158.22	8295158.34	8295158.51	0.0089	0.0074
Moon	17999-04-09 23:02 G	8295158.35	8295158.46	8295158.60	0.0089	0.0078 *
Moon	18000-04-11 08:24 G	8295525.70	8295525.85	8295526.01	0.0089	0.0069
Earth	18000-04-11 08:52 G	8295525.76	8295525.87	8295526.04	0.0089	0.0074 *

# 19TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 19th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	18001-04-13 22:19 G		8295893.30	8295893.43	8295893.59	0.0089	0.0073	
Moon	18001-04-13 22:33 G		8295893.32	8295893.44	8295893.59	0.0089	0.0077 *	
Earth	18002-04-16 11:02 G		8296260.84	8296260.96	8296261.13	0.0089	0.0073	
Moon	18002-04-16 11:45 G		8296260.86	8296260.99	8296261.18	0.0089	0.0069 *	
Moon	18003-04-18 21:07 G		8296628.28	8296628.38	8296628.55	0.0089	0.0077	
Earth	18003-04-19 00:14 G		8296628.37	8296628.51	8296628.67	0.0089	0.0072 *	
Earth	18004-04-20 12:43 G		8296995.90	8296996.03	8296996.21	0.0089	0.0072	
Moon	18004-04-20 15:21 G		8296996.00	8296996.14	8296996.33	0.0089	0.0068 *	
Venus	18004-05-11 06:43 G		8297016.76	8297016.78	8297016.84	0.0089	0.0087	
Venus	18004-12-22 19:55 G		8297242.20	8297242.33	8297242.49	0.0089	0.0067	
Moon	18005-04-22 21:50 G		8297363.31	8297363.41	8297363.58	0.0089	0.0076	
Earth	18005-04-23 01:40 G		8297363.44	8297363.57	8297363.75	0.0089	0.0072 *	



Venus	18005-08-05 09:07 G	8297467.71	8297467.88	8297468.08	0.0089	0.0047
Venus	18006-03-18 22:19 G	8297693.23	8297693.43	8297693.65	0.0089	0.0027
Earth	18006-04-25 14:38 G	8297730.97	8297731.11	8297731.29	0.0089	0.0071
Moon	18006-04-25 18:43 G	8297731.10	8297731.28	8297731.45	0.0089	0.0066 *
Venus	18006-10-30 11:45 G	8297918.77	8297918.99	8297919.21	0.0089	0.0007
Moon	18007-04-28 00:28 G	8298098.39	8298098.52	8298098.68	0.0089	0.0074
Earth	18007-04-28 03:36 G	8298098.51	8298098.65	8298098.83	0.0089	0.0070 *
Venus	18007-06-13 00:57 G	8298144.32	8298144.54	8298144.76	0.0089	0.0014
Venus	18008-01-24 13:55 G	8298369.89	8298370.08	8298370.29	0.0089	0.0034
Earth	18008-04-29 16:33 G	8298466.04	8298466.19	8298466.37	0.0089	0.0068
Moon	18008-04-29 19:12 G	8298466.14	8298466.30	8298466.51	0.0089	0.0064 *
Venus	18008-09-06 02:52 G	8298595.46	8298595.62	8298595.81	0.0089	0.0055
Venus	18009-04-19 16:04 G	8298821.07	8298821.17	8298821.31	0.0089	0.0075
Moon	18009-05-02 04:19 G	8298833.55	8298833.68	8298833.84	0.0089	0.0072
Earth	18009-05-02 05:31 G	8298833.58	8298833.73	8298833.92	0.0089	0.0067 *
Earth	18010-05-04 18:28 G	8299201.12	8299201.27	8299201.47	0.0089	0.0066
Moon	18010-05-04 19:26 G	8299201.13	8299201.31	8299201.52	0.0089	0.0062 *
Mercury	18011-03-10 04:04 G	8299510.66	8299510.67	8299510.72	0.0089	0.0087
Earth	18011-05-07 07:40 G	8299568.66	8299568.82	8299569.01	0.0089	0.0065
Moon	18011-05-07 08:38 G	8299568.70	8299568.86	8299569.02	0.0089	0.0069 *
Mercury	18011-06-06 06:43 G	8299598.71	8299598.78	8299598.86	0.0089	0.0078
Mercury	18011-09-02 08:52 G	8299686.79	8299686.87	8299686.98	0.0089	0.0070
Mercury	18011-11-29 11:31 G	8299774.86	8299774.98	8299775.09	0.0089	0.0062
Mercury	18012-02-25 13:40 G	8299862.95	8299863.07	8299863.20	0.0089	0.0053
Moon	18012-05-08 18:28 G	8299936.10	8299936.27	8299936.50	0.0089	0.0060
Earth	18012-05-08 20:52 G	8299936.21	8299936.37	8299936.57	0.0089	0.0063 *
Mercury	18012-05-23 15:50 G	8299951.03	8299951.16	8299951.31	0.0089	0.0045
Mercury	18012-08-19 18:14 G	8300039.12	8300039.26	8300039.41	0.0089	0.0037
Mercury	18012-11-15 20:38 G	8300127.21	8300127.36	8300127.51	0.0089	0.0028
Mercury	18013-02-11 22:48 G	8300215.30	8300215.45	8300215.61	0.0089	0.0020

Mercury	18013-05-11 00:57 G	8300303.39	8300303.54	8300303.70	0.0089	0.0012
Earth	18013-05-11 10:19 G	8300303.76	8300303.93	8300304.13	0.0089	0.0062
Moon	18013-05-11 12:28 G	8300303.87	8300304.02	8300304.22	0.0089	0.0066 *
Mercury	18013-08-07 03:21 G	8300391.48	8300391.64	8300391.80	0.0089	0.0004
Mercury	18013-11-03 05:31 G	8300479.57	8300479.73	8300479.89	0.0089	0.0004
Mercury	18014-01-30 07:40 G	8300567.67	8300567.82	8300567.98	0.0089	0.0013
Mercury	18014-04-28 09:50 G	8300655.76	8300655.91	8300656.07	0.0089	0.0021
Moon	18014-05-13 19:40 G	8300671.14	8300671.32	8300671.55	0.0089	0.0057
Earth	18014-05-13 23:16 G	8300671.31	8300671.47	8300671.69	0.0089	0.0061 *
Mercury	18014-07-25 12:00 G	8300743.86	8300744.00	8300744.15	0.0089	0.0029
Mercury	18014-10-21 14:24 G	8300831.95	8300832.10	8300832.24	0.0089	0.0037
Mercury	18015-01-17 16:33 G	8300920.05	8300920.19	8300920.32	0.0089	0.0045
Mercury	18015-04-15 18:28 G	8301008.15	8301008.27	8301008.40	0.0089	0.0053
Earth	18015-05-16 12:28 G	8301038.85	8301039.02	8301039.24	0.0089	0.0059
Moon	18015-05-16 16:04 G	8301039.01	8301039.17	8301039.38	0.0089	0.0062 *
Mercury	18015-07-12 20:38 G	8301096.25	8301096.36	8301096.48	0.0089	0.0061
Mercury	18015-10-08 22:48 G	8301184.36	8301184.45	8301184.55	0.0089	0.0069
Mercury	18016-01-05 00:43 G	8301272.46	8301272.53	8301272.62	0.0089	0.0077
Mercury	18016-04-02 02:52 G	8301360.58	8301360.62	8301360.68	0.0089	0.0084
Moon	18016-05-17 22:19 G	8301406.25	8301406.43	8301406.66	0.0089	0.0054
Earth	18016-05-18 01:55 G	8301406.40	8301406.58	8301406.80	0.0089	0.0057 *
Earth	18017-05-20 15:07 G	8301773.94	8301774.13	8301774.35	0.0089	0.0055
Moon	18017-05-20 18:14 G	8301774.07	8301774.26	8301774.48	0.0089	0.0058 *
Moon	18018-05-23 02:38 G	8302141.42	8302141.61	8302141.84	0.0089	0.0050
Earth	18018-05-23 04:19 G	8302141.49	8302141.68	8302141.91	0.0089	0.0053 *
Earth	18019-05-25 17:16 G	8302509.02	8302509.22	8302509.45	0.0089	0.0051
Moon	18019-05-25 18:28 G	8302509.07	8302509.27	8302509.51	0.0089	0.0053 *
Earth	18020-05-27 06:28 G	8302876.57	8302876.77	8302877.01	0.0089	0.0048
Moon	18020-05-27 06:57 G	8302876.59	8302876.79	8302877.02	0.0089	0.0045 *
Moon	18021-05-29 18:14 G	8303244.04	8303244.26	8303244.49	0.0089	0.0049

Earth	18021-05-29 19:55 G	8303244.12	8303244.33	8303244.56	0.0089	0.0046	*
Earth	18022-06-01 08:52 G	8303611.66	8303611.87	8303612.11	0.0089	0.0044	
Moon	18022-06-01 11:02 G	8303611.75	8303611.96	8303612.19	0.0089	0.0042	*
Moon	18023-06-03 18:43 G	8303979.06	8303979.28	8303979.52	0.0089	0.0044	
Earth	18023-06-03 21:50 G	8303979.20	8303979.41	8303979.66	0.0089	0.0042	*
Earth	18024-06-05 11:16 G	8304346.75	8304346.97	8304347.21	0.0089	0.0039	
Moon	18024-06-05 14:38 G	8304346.89	8304347.11	8304347.36	0.0089	0.0037	*
Moon	18025-06-07 21:07 G	8304714.16	8304714.38	8304714.62	0.0089	0.0038	
Earth	18025-06-08 00:28 G	8304714.30	8304714.52	8304714.77	0.0089	0.0037	*
Earth	18026-06-10 13:55 G	8305081.85	8305082.08	8305082.33	0.0089	0.0034	
Moon	18026-06-10 17:02 G	8305081.98	8305082.21	8305082.47	0.0089	0.0032	*
Moon	18027-06-13 00:57 G	8305449.32	8305449.54	8305449.79	0.0089	0.0033	
Earth	18027-06-13 03:21 G	8305449.40	8305449.64	8305449.88	0.0089	0.0031	*
Earth	18028-06-14 16:04 G	8305816.94	8305817.17	8305817.43	0.0089	0.0029	
Moon	18028-06-14 18:00 G	8305817.00	8305817.25	8305817.51	0.0089	0.0028	*
Earth	18029-06-17 05:31 G	8306184.49	8306184.73	8306184.98	0.0090	0.0026	
Moon	18029-06-17 05:16 G	8306184.50	8306184.72	8306184.98	0.0090	0.0028	*
Moon	18030-06-19 17:02 G	8306551.96	8306552.21	8306552.48	0.0090	0.0022	
Earth	18030-06-19 18:28 G	8306552.03	8306552.27	8306552.53	0.0090	0.0023	*
Earth	18031-06-22 07:12 G	8306919.56	8306919.80	8306920.07	0.0090	0.0021	
Moon	18031-06-22 09:21 G	8306919.65	8306919.89	8306920.14	0.0090	0.0021	*
Moon	18032-06-23 17:02 G	8307286.96	8307287.21	8307287.48	0.0090	0.0017	
Earth	18032-06-23 20:24 G	8307287.10	8307287.35	8307287.61	0.0090	0.0018	*
Earth	18033-06-26 09:21 G	8307654.64	8307654.89	8307655.15	0.0090	0.0015	
Moon	18033-06-26 12:43 G	8307654.78	8307655.03	8307655.29	0.0090	0.0015	*
Moon	18034-06-28 18:43 G	8308022.03	8308022.28	8308022.54	0.0090	0.0012	
Earth	18034-06-28 22:19 G	8308022.18	8308022.43	8308022.69	0.0090	0.0012	*
Earth	18035-07-01 11:02 G	8308389.71	8308389.96	8308390.22	0.0090	0.0009	
Moon	18035-07-01 14:24 G	8308389.84	8308390.10	8308390.36	0.0090	0.0009	*
Moon	18036-07-02 21:36 G	8308757.15	8308757.40	8308757.66	0.0090	0.0006	

Earth	18036-07-03 00:00 G	8308757.25	8308757.50	8308757.76	0.0090	0.0006	*
Earth	18037-07-05 12:57 G	8309124.78	8309125.04	8309125.30	0.0090	0.0003	
Moon	18037-07-05 14:52 G	8309124.86	8309125.12	8309125.39	0.0090	0.0003	*
Earth	18038-07-08 01:40 G	8309492.32	8309492.57	8309492.83	0.0089	0.0002	
Moon	18038-07-08 01:40 G	8309492.32	8309492.57	8309492.82	0.0089	0.0002	*
Moon	18039-07-10 13:40 G	8309859.81	8309860.07	8309860.34	0.0089	0.0003	
Earth	18039-07-10 14:38 G	8309859.85	8309860.11	8309860.37	0.0089	0.0003	*
Earth	18040-07-12 03:21 G	8310227.39	8310227.64	8310227.90	0.0089	0.0006	
Moon	18040-07-12 05:02 G	8310227.46	8310227.71	8310227.96	0.0089	0.0004	*
Moon	18041-07-14 12:57 G	8310594.78	8310595.04	8310595.31	0.0089	0.0009	
Earth	18041-07-14 16:04 G	8310594.92	8310595.17	8310595.43	0.0089	0.0008	*
Earth	18042-07-17 04:33 G	8310962.44	8310962.69	8310962.95	0.0089	0.0011	
Moon	18042-07-17 07:55 G	8310962.58	8310962.83	8310963.09	0.0089	0.0010	*
Moon	18043-07-19 13:26 G	8311329.81	8311330.06	8311330.32	0.0089	0.0015	
Earth	18043-07-19 17:16 G	8311329.96	8311330.22	8311330.47	0.0089	0.0014	*
Earth	18044-07-21 05:31 G	8311697.48	8311697.73	8311697.99	0.0089	0.0017	
Moon	18044-07-21 08:52 G	8311697.62	8311697.87	8311698.14	0.0089	0.0015	*
Moon	18045-07-23 15:36 G	8312064.90	8312065.15	8312065.39	0.0089	0.0021	
Earth	18045-07-23 18:00 G	8312065.01	8312065.25	8312065.51	0.0089	0.0019	*
Earth	18046-07-26 06:00 G	8312432.52	8312432.75	8312433.01	0.0089	0.0022	
Moon	18046-07-26 08:24 G	8312432.60	8312432.85	8312433.11	0.0089	0.0020	*
Moon	18047-07-28 18:00 G	8312800.03	8312800.25	8312800.50	0.0089	0.0027	
Earth	18047-07-28 18:28 G	8312800.03	8312800.27	8312800.53	0.0089	0.0025	*
Moon	18048-07-30 06:14 G	8313167.52	8313167.76	8313168.03	0.0089	0.0026	
Earth	18048-07-30 06:43 G	8313167.55	8313167.78	8313168.04	0.0089	0.0028	*
Earth	18049-08-01 19:12 G	8313535.06	8313535.30	8313535.55	0.0089	0.0030	
Moon	18049-08-01 20:38 G	8313535.14	8313535.36	8313535.60	0.0089	0.0032	*
Moon	18050-08-04 04:33 G	8313902.45	8313902.69	8313902.94	0.0089	0.0031	
Earth	18050-08-04 07:26 G	8313902.58	8313902.81	8313903.06	0.0089	0.0033	*
Earth	18051-08-06 19:55 G	8314270.10	8314270.33	8314270.57	0.0089	0.0035	

Moon	18051-08-06 22:48 G	8314270.24	8314270.45	8314270.70	0.0089	0.0037 *
Moon	18052-08-08 04:19 G	8314637.46	8314637.68	8314637.93	0.0089	0.0035
Earth	18052-08-08 07:55 G	8314637.62	8314637.83	8314638.08	0.0089	0.0038 *
Earth	18053-08-10 20:09 G	8315005.12	8315005.34	8315005.58	0.0089	0.0040
Moon	18053-08-10 23:16 G	8315005.26	8315005.47	8315005.72	0.0089	0.0043 *
Moon	18054-08-13 05:16 G	8315372.51	8315372.72	8315372.97	0.0089	0.0040
Earth	18054-08-13 07:55 G	8315372.63	8315372.83	8315373.08	0.0089	0.0043 *
Earth	18055-08-15 19:55 G	8315740.13	8315740.33	8315740.57	0.0089	0.0044
Moon	18055-08-15 22:04 G	8315740.22	8315740.42	8315740.67	0.0089	0.0048 *
Moon	18056-08-17 07:55 G	8316107.61	8316107.83	8316108.05	0.0089	0.0044
Earth	18056-08-17 07:55 G	8316107.63	8316107.83	8316108.07	0.0089	0.0046 *
Moon	18057-08-19 18:57 G	8316475.09	8316475.29	8316475.53	0.0089	0.0051
Earth	18057-08-19 19:40 G	8316475.12	8316475.32	8316475.55	0.0089	0.0048 *
Earth	18058-08-22 07:26 G	8316842.61	8316842.81	8316843.03	0.0089	0.0050
Moon	18058-08-22 08:52 G	8316842.67	8316842.87	8316843.10	0.0089	0.0047 *
Moon	18059-08-24 16:33 G	8317209.98	8317210.19	8317210.39	0.0089	0.0055
Earth	18059-08-24 18:57 G	8317210.11	8317210.29	8317210.52	0.0089	0.0053 *
Earth	18060-08-26 06:28 G	8317577.59	8317577.77	8317578.00	0.0089	0.0055
Moon	18060-08-26 10:19 G	8317577.72	8317577.93	8317578.14	0.0089	0.0051 *
Mars	18061-06-20 21:21 G	8317876.20	8317876.39	8317876.61	0.0089	0.0066
Moon	18061-08-28 14:52 G	8317944.94	8317945.12	8317945.32	0.0089	0.0059
Earth	18061-08-28 18:43 G	8317945.09	8317945.28	8317945.48	0.0089	0.0056 *
Earth	18062-08-31 06:00 G	8318312.57	8318312.75	8318312.96	0.0089	0.0057
Moon	18062-08-31 09:07 G	8318312.70	8318312.88	8318313.11	0.0089	0.0054 *
Mars	18063-05-16 07:55 G	8318570.55	8318570.83	8318571.15	0.0089	0.0017
Moon	18063-09-02 15:07 G	8318679.96	8318680.13	8318680.32	0.0089	0.0062
Earth	18063-09-02 17:31 G	8318680.06	8318680.23	8318680.44	0.0089	0.0059 *
Earth	18064-09-04 05:16 G	8319047.55	8319047.72	8319047.92	0.0089	0.0060
Moon	18064-09-04 07:26 G	8319047.62	8319047.81	8319048.03	0.0089	0.0056 *
Moon	18065-09-06 16:19 G	8319415.03	8319415.18	8319415.36	0.0089	0.0065

Earth	18065-09-06 17:02 G	8319415.03	8319415.21	8319415.39	0.0089	0.0061	*
Moon	18066-09-09 03:36 G	8319782.47	8319782.65	8319782.86	0.0089	0.0059	
Earth	18066-09-09 03:50 G	8319782.51	8319782.66	8319782.87	0.0089	0.0063	*
Earth	18067-09-11 15:21 G	8320149.98	8320150.14	8320150.34	0.0089	0.0064	
Moon	18067-09-11 17:02 G	8320150.07	8320150.21	8320150.38	0.0089	0.0068	*
Moon	18068-09-12 23:16 G	8320517.31	8320517.47	8320517.69	0.0089	0.0062	
Earth	18068-09-13 02:38 G	8320517.45	8320517.61	8320517.80	0.0089	0.0065	*
Earth	18069-09-15 13:40 G	8320884.92	8320885.07	8320885.26	0.0089	0.0066	
Moon	18069-09-15 16:48 G	8320885.06	8320885.20	8320885.37	0.0089	0.0070	*
Moon	18070-09-17 20:52 G	8321252.21	8321252.37	8321252.58	0.0089	0.0063	
Earth	18070-09-18 00:43 G	8321252.38	8321252.53	8321252.72	0.0089	0.0067	*
Earth	18071-09-20 11:31 G	8321619.84	8321619.98	8321620.17	0.0089	0.0068	
Moon	18071-09-20 15:21 G	8321619.99	8321620.14	8321620.29	0.0089	0.0071	*
Moon	18072-09-21 20:24 G	8321987.19	8321987.35	8321987.53	0.0089	0.0064	
Earth	18072-09-21 23:02 G	8321987.30	8321987.46	8321987.63	0.0089	0.0068	*
Earth	18073-09-24 09:21 G	8322354.75	8322354.89	8322355.08	0.0089	0.0069	
Moon	18073-09-24 11:31 G	8322354.85	8322354.98	8322355.14	0.0089	0.0073	*
Moon	18074-09-26 20:09 G	8322722.20	8322722.34	8322722.53	0.0089	0.0066	
Earth	18074-09-26 20:52 G	8322722.21	8322722.37	8322722.53	0.0089	0.0069	*
Moon	18075-09-29 07:12 G	8323089.65	8323089.80	8323089.95	0.0089	0.0073	
Earth	18075-09-29 07:26 G	8323089.67	8323089.81	8323089.99	0.0089	0.0070	*
Earth	18076-09-30 18:28 G	8323457.13	8323457.27	8323457.44	0.0089	0.0070	
Moon	18076-09-30 20:09 G	8323457.19	8323457.34	8323457.53	0.0089	0.0066	*
Moon	18077-10-03 02:09 G	8323824.46	8323824.59	8323824.75	0.0089	0.0074	
Earth	18077-10-03 05:31 G	8323824.58	8323824.73	8323824.89	0.0089	0.0070	*
Earth	18078-10-05 16:19 G	8324192.03	8324192.18	8324192.34	0.0089	0.0070	
Moon	18078-10-05 19:12 G	8324192.15	8324192.30	8324192.49	0.0089	0.0066	*
Moon	18079-10-07 23:02 G	8324559.34	8324559.46	8324559.62	0.0089	0.0075	
Earth	18079-10-08 02:52 G	8324559.48	8324559.62	8324559.79	0.0089	0.0070	*
Earth	18080-10-09 13:26 G	8324926.92	8324927.06	8324927.23	0.0088	0.0070	

Moon	18080-10-09 16:19 G	8324927.03	8324927.18	8324927.38	0.0088	0.0066 *
Moon	18081-10-11 21:36 G	8325294.28	8325294.40	8325294.55	0.0088	0.0074
Earth	18081-10-11 23:45 G	8325294.36	8325294.49	8325294.67	0.0088	0.0070 *
Earth	18082-10-14 10:19 G	8325661.80	8325661.93	8325662.11	0.0088	0.0070
Moon	18082-10-14 12:00 G	8325661.84	8325662.00	8325662.20	0.0088	0.0065 *
Earth	18083-10-16 21:07 G	8326029.23	8326029.38	8326029.55	0.0088	0.0069
Moon	18083-10-16 21:36 G	8326029.26	8326029.40	8326029.54	0.0088	0.0073 *
Moon	18084-10-18 06:43 G	8326396.60	8326396.78	8326396.97	0.0088	0.0064
Earth	18084-10-18 07:12 G	8326396.67	8326396.80	8326396.99	0.0088	0.0069 *
Earth	18085-10-20 17:45 G	8326764.10	8326764.24	8326764.43	0.0088	0.0068
Moon	18085-10-20 19:55 G	8326764.21	8326764.33	8326764.50	0.0088	0.0073 *
Venus	18085-11-14 16:33 G	8326789.13	8326789.19	8326789.29	0.0088	0.0082
Venus	18086-06-28 05:45 G	8327014.59	8327014.74	8327014.90	0.0088	0.0062
Moon	18086-10-23 00:57 G	8327131.38	8327131.54	8327131.75	0.0088	0.0063
Earth	18086-10-23 04:33 G	8327131.53	8327131.69	8327131.87	0.0088	0.0067 *
Venus	18087-02-08 18:14 G	8327240.08	8327240.26	8327240.47	0.0088	0.0043
Venus	18087-09-22 07:26 G	8327465.60	8327465.81	8327466.03	0.0088	0.0022
Earth	18087-10-25 15:07 G	8327498.96	8327499.13	8327499.30	0.0088	0.0066
Moon	18087-10-25 18:00 G	8327499.12	8327499.25	8327499.43	0.0088	0.0071 *
Venus	18088-05-04 20:09 G	8327691.13	8327691.34	8327691.57	0.0088	0.0003
Moon	18088-10-26 21:36 G	8327866.24	8327866.40	8327866.61	0.0088	0.0061
Earth	18088-10-27 01:12 G	8327866.40	8327866.55	8327866.75	0.0088	0.0065 *
Venus	18088-12-16 08:52 G	8327916.66	8327916.87	8327917.10	0.0088	0.0017
Venus	18089-07-29 21:36 G	8328142.22	8328142.40	8328142.62	0.0088	0.0037
Earth	18089-10-29 12:00 G	8328233.83	8328234.00	8328234.18	0.0088	0.0064
Moon	18089-10-29 14:24 G	8328233.96	8328234.10	8328234.29	0.0088	0.0068 *
Venus	18090-03-12 10:33 G	8328367.78	8328367.94	8328368.12	0.0088	0.0057
Venus	18090-10-23 23:02 G	8328593.37	8328593.46	8328593.59	0.0088	0.0076
Moon	18090-10-31 20:09 G	8328601.17	8328601.34	8328601.54	0.0088	0.0059
Earth	18090-10-31 22:33 G	8328601.27	8328601.44	8328601.63	0.0088	0.0063 *

Earth	18091-11-03 08:52 G	8328968.70	8328968.87	8328969.06	0.0088	0.0061
Moon	18091-11-03 09:36 G	8328968.75	8328968.90	8328969.10	0.0088	0.0066 *
Mercury	18092-09-06 06:57 G	8329276.74	8329276.79	8329276.84	0.0088	0.0082
Earth	18092-11-04 18:57 G	8329336.12	8329336.29	8329336.50	0.0088	0.0060
Moon	18092-11-04 19:26 G	8329336.14	8329336.31	8329336.52	0.0088	0.0057 *
Mercury	18092-12-03 08:38 G	8329364.80	8329364.86	8329364.95	0.0088	0.0075
Mercury	18093-03-01 10:33 G	8329452.86	8329452.94	8329453.05	0.0088	0.0068
Mercury	18093-05-28 12:43 G	8329540.93	8329541.03	8329541.15	0.0088	0.0060
Mercury	18093-08-24 14:38 G	8329629.00	8329629.11	8329629.24	0.0088	0.0053
Moon	18093-11-07 03:36 G	8329703.50	8329703.65	8329703.87	0.0088	0.0064
Earth	18093-11-07 05:45 G	8329703.55	8329703.74	8329703.93	0.0088	0.0059 *
Mercury	18093-11-20 16:48 G	8329717.07	8329717.20	8329717.34	0.0088	0.0045
Mercury	18094-02-16 18:43 G	8329805.15	8329805.28	8329805.43	0.0088	0.0038
Mercury	18094-05-15 20:38 G	8329893.22	8329893.36	8329893.52	0.0088	0.0031
Mercury	18094-08-11 22:48 G	8329981.30	8329981.45	8329981.61	0.0088	0.0023
Mercury	18094-11-08 00:57 G	8330069.39	8330069.54	8330069.69	0.0088	0.0015
Earth	18094-11-09 15:36 G	8330070.97	8330071.15	8330071.36	0.0088	0.0057
Moon	18094-11-09 18:28 G	8330071.07	8330071.27	8330071.47	0.0088	0.0053 *
Mercury	18095-02-04 02:52 G	8330157.47	8330157.62	8330157.78	0.0088	0.0008
Mercury	18095-05-03 05:02 G	8330245.55	8330245.71	8330245.87	0.0088	0.0001
Mercury	18095-07-30 06:57 G	8330333.64	8330333.79	8330333.95	0.0088	0.0009
Mercury	18095-10-26 09:07 G	8330421.73	8330421.88	8330422.04	0.0088	0.0016
Moon	18095-11-11 22:19 G	8330438.26	8330438.43	8330438.64	0.0088	0.0060
Earth	18095-11-12 02:09 G	8330438.40	8330438.59	8330438.79	0.0088	0.0055 *
Mercury	18096-01-22 11:02 G	8330509.82	8330509.96	8330510.12	0.0088	0.0024
Mercury	18096-04-19 13:12 G	8330597.91	8330598.05	8330598.20	0.0088	0.0032
Mercury	18096-07-16 15:21 G	8330686.00	8330686.14	8330686.28	0.0088	0.0039
Mercury	18096-10-12 17:31 G	8330774.10	8330774.23	8330774.36	0.0088	0.0047
Earth	18096-11-13 12:00 G	8330805.82	8330806.00	8330806.22	0.0088	0.0054
Moon	18096-11-13 15:50 G	8330805.95	8330806.16	8330806.37	0.0088	0.0049 *



Mercury	18097-01-08 19:26 G	8330862.20	8330862.31	8330862.44	0.0088	0.0055
Mercury	18097-04-06 21:36 G	8330950.30	8330950.40	8330950.52	0.0088	0.0063
Mercury	18097-07-03 23:31 G	8331038.40	8331038.48	8331038.59	0.0088	0.0071
Mercury	18097-09-30 01:40 G	8331126.52	8331126.57	8331126.65	0.0088	0.0079
Moon	18097-11-15 18:43 G	8331173.11	8331173.28	8331173.49	0.0088	0.0057
Earth	18097-11-15 22:19 G	8331173.24	8331173.43	8331173.65	0.0088	0.0052 *
Mercury	18097-12-27 03:50 G	8331214.65	8331214.66	8331214.70	0.0088	0.0087
Earth	18098-11-18 08:52 G	8331540.66	8331540.87	8331541.08	0.0088	0.0050
Moon	18098-11-18 11:02 G	8331540.75	8331540.96	8331541.20	0.0088	0.0046 *
Moon	18099-11-20 16:48 G	8331908.02	8331908.20	8331908.42	0.0088	0.0053
Earth	18099-11-20 18:43 G	8331908.09	8331908.28	8331908.51	0.0088	0.0049 *
Earth	18100-11-23 04:48 G	8332275.51	8332275.70	8332275.94	0.0088	0.0047
Moon	18100-11-23 05:45 G	8332275.52	8332275.74	8332275.98	0.0088	0.0042 *
Earth	18101-11-25 15:21 G	8332642.94	8332643.14	8332643.38	0.0088	0.0045
Moon	18101-11-25 16:33 G	8332642.99	8332643.19	8332643.40	0.0088	0.0049 *
Moon	18102-11-28 00:14 G	8333010.28	8333010.51	8333010.76	0.0088	0.0038
Earth	18102-11-28 01:40 G	8333010.37	8333010.57	8333010.81	0.0088	0.0043 *
Earth	18103-11-30 11:45 G	8333377.79	8333377.99	8333378.24	0.0088	0.0041
Moon	18103-11-30 15:07 G	8333377.92	8333378.13	8333378.35	0.0088	0.0045 *
Moon	18104-12-01 18:57 G	8333745.06	8333745.29	8333745.54	0.0088	0.0034
Earth	18104-12-01 22:19 G	8333745.22	8333745.43	8333745.68	0.0088	0.0039 *
Earth	18105-12-04 08:38 G	8334112.64	8334112.86	8334113.11	0.0088	0.0036
Moon	18105-12-04 12:00 G	8334112.79	8334113.00	8334113.24	0.0088	0.0041 *
Moon	18106-12-06 15:50 G	8334479.92	8334480.16	8334480.40	0.0088	0.0029
Earth	18106-12-06 18:57 G	8334480.07	8334480.29	8334480.54	0.0088	0.0034 *
Earth	18107-12-09 05:02 G	8334847.49	8334847.71	8334847.97	0.0088	0.0032
Moon	18107-12-09 07:26 G	8334847.58	8334847.81	8334848.06	0.0088	0.0036 *
Moon	18108-12-10 14:09 G	8335214.85	8335215.09	8335215.32	0.0088	0.0025
Earth	18108-12-10 15:36 G	8335214.91	8335215.15	8335215.39	0.0088	0.0029 *
Earth	18109-12-13 01:40 G	8335582.33	8335582.57	8335582.82	0.0088	0.0027

Moon	18109-12-13 01:40 G	8335582.34	8335582.57	8335582.83	0.0088	0.0032	*
Earth	18110-12-15 11:45 G	8335949.76	8335949.99	8335950.25	0.0088	0.0025	
Moon	18110-12-15 13:12 G	8335949.82	8335950.05	8335950.31	0.0088	0.0021	*
Moon	18111-12-17 20:09 G	8336317.09	8336317.34	8336317.59	0.0088	0.0026	
Earth	18111-12-17 22:19 G	8336317.18	8336317.43	8336317.68	0.0088	0.0022	*
Earth	18112-12-19 08:24 G	8336684.61	8336684.85	8336685.11	0.0088	0.0020	
Moon	18112-12-19 11:45 G	8336684.74	8336684.99	8336685.24	0.0088	0.0015	*
Moon	18113-12-21 15:21 G	8337051.90	8337052.14	8337052.40	0.0088	0.0022	
Earth	18113-12-21 18:57 G	8337052.05	8337052.29	8337052.55	0.0088	0.0017	*
Earth	18114-12-24 05:16 G	8337419.48	8337419.72	8337419.98	0.0088	0.0015	
Moon	18114-12-24 08:52 G	8337419.62	8337419.87	8337420.13	0.0088	0.0011	*
Moon	18115-12-26 12:43 G	8337786.80	8337787.03	8337787.29	0.0088	0.0017	
Earth	18115-12-26 16:04 G	8337786.92	8337787.17	8337787.43	0.0088	0.0012	*
Earth	18116-12-28 02:24 G	8338154.35	8338154.60	8338154.86	0.0088	0.0010	
Moon	18116-12-28 04:19 G	8338154.42	8338154.68	8338154.95	0.0088	0.0005	*
Moon	18117-12-30 12:00 G	8338521.75	8338522.00	8338522.25	0.0088	0.0011	
Earth	18117-12-30 13:12 G	8338521.79	8338522.05	8338522.31	0.0088	0.0007	*
Moon	18119-01-01 23:16 G	8338889.21	8338889.47	8338889.74	0.0088	0.0001	
Earth	18119-01-01 23:31 G	8338889.23	8338889.48	8338889.74	0.0088	0.0005	*
Earth	18120-01-04 10:04 G	8339256.66	8339256.92	8339257.18	0.0088	0.0002	
Moon	18120-01-04 11:45 G	8339256.75	8339256.99	8339257.24	0.0088	0.0006	*
Moon	18121-01-05 18:14 G	8339624.00	8339624.26	8339624.53	0.0088	0.0005	
Earth	18121-01-05 20:38 G	8339624.11	8339624.36	8339624.62	0.0088	0.0001	*
Earth	18122-01-08 07:12 G	8339991.55	8339991.80	8339992.06	0.0088	0.0004	
Moon	18122-01-08 10:33 G	8339991.69	8339991.94	8339992.20	0.0088	0.0002	*
Moon	18123-01-10 14:09 G	8340358.84	8340359.09	8340359.36	0.0088	0.0011	
Earth	18123-01-10 18:00 G	8340358.99	8340359.25	8340359.50	0.0088	0.0006	*
Earth	18124-01-13 04:19 G	8340726.43	8340726.68	8340726.95	0.0088	0.0009	
Moon	18124-01-13 07:55 G	8340726.57	8340726.83	8340727.09	0.0088	0.0005	*
Moon	18125-01-14 12:14 G	8341093.77	8341094.01	8341094.27	0.0088	0.0016	

Earth	18125-01-14 15:21 G	8341093.88	8341094.14	8341094.39	0.0088	0.0011	*
Earth	18126-01-17 01:55 G	8341461.33	8341461.58	8341461.84	0.0088	0.0014	
Moon	18126-01-17 03:36 G	8341461.39	8341461.65	8341461.92	0.0088	0.0010	*
Moon	18127-01-19 12:00 G	8341828.77	8341829.00	8341829.25	0.0088	0.0020	
Earth	18127-01-19 12:43 G	8341828.79	8341829.03	8341829.30	0.0088	0.0017	*
Moon	18128-01-21 23:02 G	8342196.21	8342196.46	8342196.73	0.0088	0.0015	
Earth	18128-01-21 23:45 G	8342196.25	8342196.49	8342196.75	0.0088	0.0019	*
Earth	18129-01-23 11:02 G	8342563.71	8342563.96	8342564.21	0.0088	0.0021	
Moon	18129-01-23 12:43 G	8342563.80	8342564.03	8342564.28	0.0088	0.0026	*
Moon	18130-01-25 19:26 G	8342931.06	8342931.31	8342931.57	0.0088	0.0020	
Earth	18130-01-25 22:04 G	8342931.18	8342931.42	8342931.67	0.0088	0.0024	*
Earth	18131-01-28 09:07 G	8343298.63	8343298.88	8343299.13	0.0088	0.0026	
Moon	18131-01-28 12:14 G	8343298.79	8343299.01	8343299.27	0.0088	0.0031	*
Moon	18132-01-30 16:33 G	8343665.95	8343666.19	8343666.45	0.0088	0.0025	
Earth	18132-01-30 19:55 G	8343666.10	8343666.33	8343666.59	0.0088	0.0029	*
Earth	18133-02-01 07:12 G	8344033.56	8344033.80	8344034.05	0.0088	0.0031	
Moon	18133-02-01 10:48 G	8344033.71	8344033.95	8344034.19	0.0088	0.0034	*
Moon	18134-02-03 15:50 G	8344400.93	8344401.16	8344401.40	0.0088	0.0029	
Earth	18134-02-03 18:28 G	8344401.04	8344401.27	8344401.52	0.0088	0.0033	*
Earth	18135-02-06 05:16 G	8344768.51	8344768.72	8344768.98	0.0088	0.0036	
Moon	18135-02-06 06:57 G	8344768.56	8344768.79	8344769.04	0.0088	0.0039	*
Moon	18136-02-08 15:50 G	8345135.95	8345136.16	8345136.40	0.0088	0.0035	
Earth	18136-02-08 16:33 G	8345135.97	8345136.19	8345136.44	0.0088	0.0038	*
Moon	18137-02-10 03:21 G	8345503.41	8345503.64	8345503.87	0.0088	0.0044	
Earth	18137-02-10 03:50 G	8345503.45	8345503.66	8345503.91	0.0088	0.0040	*
Earth	18138-02-12 15:21 G	8345870.93	8345871.14	8345871.38	0.0088	0.0042	
Moon	18138-02-12 17:45 G	8345871.02	8345871.24	8345871.47	0.0088	0.0039	*
Moon	18139-02-15 00:14 G	8346238.29	8346238.51	8346238.74	0.0088	0.0047	
Earth	18139-02-15 02:38 G	8346238.41	8346238.61	8346238.85	0.0088	0.0045	*
Earth	18140-02-17 14:24 G	8346605.89	8346606.10	8346606.33	0.0088	0.0046	

Moon	18140-02-17 18:14 G	8346606.04	8346606.26	8346606.49	0.0088	0.0043 *
Moon	18141-02-18 23:02 G	8346973.25	8346973.46	8346973.67	0.0088	0.0052
Earth	18141-02-19 01:55 G	8346973.38	8346973.58	8346973.82	0.0088	0.0048 *
Earth	18142-02-21 13:26 G	8347340.87	8347341.06	8347341.30	0.0088	0.0051
Moon	18142-02-21 17:02 G	8347341.01	8347341.21	8347341.45	0.0088	0.0048 *
Moon	18143-02-23 22:48 G	8347708.27	8347708.45	8347708.67	0.0088	0.0056
Earth	18143-02-24 01:40 G	8347708.37	8347708.57	8347708.79	0.0088	0.0052 *
Earth	18144-02-26 13:12 G	8348075.86	8348076.05	8348076.27	0.0088	0.0053
Moon	18144-02-26 14:38 G	8348075.90	8348076.11	8348076.34	0.0088	0.0050 *
Moon	18145-02-28 00:14 G	8348443.34	8348443.51	8348443.72	0.0088	0.0058
Earth	18145-02-28 00:43 G	8348443.35	8348443.53	8348443.76	0.0088	0.0056 *
Mars	18145-04-18 13:55 G	8348492.81	8348493.08	8348493.41	0.0088	0.0035
Moon	18146-03-02 11:45 G	8348810.79	8348810.99	8348811.22	0.0088	0.0053
Earth	18146-03-02 12:43 G	8348810.85	8348811.03	8348811.25	0.0088	0.0057 *
Earth	18147-03-05 00:43 G	8349178.34	8349178.53	8349178.73	0.0088	0.0058
Moon	18147-03-05 02:52 G	8349178.44	8349178.62	8349178.81	0.0088	0.0061 *
Mars	18147-03-14 16:33 G	8349187.95	8349188.19	8349188.48	0.0088	0.0051
Moon	18148-03-06 09:50 G	8349545.72	8349545.91	8349546.12	0.0088	0.0057
Earth	18148-03-06 12:14 G	8349545.84	8349546.01	8349546.23	0.0088	0.0060 *
Earth	18149-03-09 00:14 G	8349913.34	8349913.51	8349913.72	0.0088	0.0061
Moon	18149-03-09 03:50 G	8349913.50	8349913.66	8349913.86	0.0088	0.0064 *
Moon	18150-03-11 08:38 G	8350280.69	8350280.86	8350281.08	0.0088	0.0060
Earth	18150-03-11 12:28 G	8350280.85	8350281.02	8350281.22	0.0088	0.0062 *
Earth	18151-03-14 00:28 G	8350648.35	8350648.52	8350648.71	0.0088	0.0063
Moon	18151-03-14 03:50 G	8350648.50	8350648.66	8350648.86	0.0088	0.0065 *
Moon	18152-03-15 10:04 G	8351015.75	8351015.92	8351016.11	0.0089	0.0062
Earth	18152-03-15 12:43 G	8351015.86	8351016.03	8351016.22	0.0089	0.0064 *
Earth	18153-03-18 00:57 G	8351383.38	8351383.54	8351383.73	0.0089	0.0065
Moon	18153-03-18 02:24 G	8351383.44	8351383.60	8351383.79	0.0089	0.0067 *
Moon	18154-03-20 12:28 G	8351750.87	8351751.02	8351751.21	0.0089	0.0065

Earth	18154-03-20 13:12 G	8351750.90	8351751.05	8351751.24	0.0089	0.0066 *
Moon	18155-03-23 00:14 G	8352118.37	8352118.51	8352118.71	0.0089	0.0069
Earth	18155-03-23 01:26 G	8352118.41	8352118.56	8352118.75	0.0089	0.0067 *
Earth	18156-03-24 14:24 G	8352485.94	8352486.10	8352486.27	0.0089	0.0067
Moon	18156-03-24 15:50 G	8352486.02	8352486.16	8352486.35	0.0089	0.0066 *
Moon	18157-03-27 00:00 G	8352853.35	8352853.50	8352853.68	0.0089	0.0069
Earth	18157-03-27 02:38 G	8352853.46	8352853.61	8352853.79	0.0089	0.0068 *
Earth	18158-03-29 15:07 G	8353220.98	8353221.13	8353221.31	0.0089	0.0068
Moon	18158-03-29 18:28 G	8353221.12	8353221.27	8353221.46	0.0089	0.0067 *
Moon	18159-04-01 00:00 G	8353588.36	8353588.50	8353588.68	0.0089	0.0070
Earth	18159-04-01 03:21 G	8353588.50	8353588.64	8353588.83	0.0089	0.0069 *
Earth	18160-04-02 15:50 G	8353956.02	8353956.16	8353956.35	0.0089	0.0069
Moon	18160-04-02 19:12 G	8353956.17	8353956.30	8353956.50	0.0089	0.0069 *
Moon	18161-04-05 02:09 G	8354323.45	8354323.59	8354323.76	0.0089	0.0070
Earth	18161-04-05 04:33 G	8354323.55	8354323.69	8354323.87	0.0089	0.0069 *
Earth	18162-04-07 17:02 G	8354691.07	8354691.21	8354691.40	0.0089	0.0069
Moon	18162-04-07 19:12 G	8354691.14	8354691.30	8354691.48	0.0089	0.0068 *
Moon	18163-04-10 04:48 G	8355058.56	8355058.70	8355058.88	0.0089	0.0069
Earth	18163-04-10 05:45 G	8355058.60	8355058.74	8355058.92	0.0089	0.0069 *
Moon	18164-04-11 17:31 G	8355426.09	8355426.23	8355426.43	0.0089	0.0068
Earth	18164-04-11 18:28 G	8355426.13	8355426.27	8355426.46	0.0089	0.0069 *
Earth	18165-04-14 07:40 G	8355793.67	8355793.82	8355794.00	0.0089	0.0068
Moon	18165-04-14 09:07 G	8355793.74	8355793.88	8355794.06	0.0089	0.0069 *
Moon	18166-04-16 17:45 G	8356161.09	8356161.24	8356161.43	0.0089	0.0068
Earth	18166-04-16 20:09 G	8356161.20	8356161.34	8356161.54	0.0089	0.0068 *
Earth	18167-04-19 09:36 G	8356528.74	8356528.90	8356529.08	0.0089	0.0067
Moon	18167-04-19 13:12 G	8356528.89	8356529.05	8356529.22	0.0089	0.0067 *
Moon	18168-04-20 18:43 G	8356896.14	8356896.28	8356896.48	0.0089	0.0067
Earth	18168-04-20 22:19 G	8356896.28	8356896.43	8356896.63	0.0089	0.0067 *
Venus	18169-03-27 07:40 G	8357236.71	8357236.82	8357236.94	0.0089	0.0074

Earth	18169-04-23 11:16 G	8357263.82	8357263.97	8357264.17	0.0089	0.0066
Moon	18169-04-23 15:21 G	8357263.97	8357264.14	8357264.33	0.0089	0.0065 *
Venus	18169-11-07 20:38 G	8357462.20	8357462.36	8357462.55	0.0089	0.0055
Moon	18170-04-25 22:04 G	8357631.25	8357631.42	8357631.59	0.0089	0.0066
Earth	18170-04-26 00:28 G	8357631.36	8357631.52	8357631.72	0.0089	0.0065 *
Venus	18170-06-21 09:50 G	8357687.72	8357687.91	8357688.13	0.0089	0.0035
Venus	18171-02-01 23:16 G	8357913.26	8357913.47	8357913.70	0.0089	0.0014
Earth	18171-04-28 13:12 G	8357998.90	8357999.05	8357999.25	0.0089	0.0065
Moon	18171-04-28 15:21 G	8357998.98	8357999.14	8357999.35	0.0089	0.0063 *
Venus	18171-09-15 12:43 G	8358138.81	8358139.03	8358139.25	0.0089	0.0006
Venus	18172-04-28 01:40 G	8358364.36	8358364.57	8358364.78	0.0089	0.0027
Moon	18172-04-30 00:57 G	8358366.39	8358366.54	8358366.74	0.0089	0.0065
Earth	18172-04-30 02:24 G	8358366.44	8358366.60	8358366.80	0.0089	0.0063 *
Venus	18172-12-09 14:24 G	8358589.93	8358590.10	8358590.31	0.0089	0.0047
Moon	18173-05-02 14:52 G	8358733.95	8358734.12	8358734.34	0.0089	0.0061
Earth	18173-05-02 15:21 G	8358733.98	8358734.14	8358734.35	0.0089	0.0062 *
Venus	18173-07-23 03:36 G	8358815.53	8358815.65	8358815.81	0.0089	0.0067
Venus	18174-03-05 16:48 G	8359041.18	8359041.20	8359041.27	0.0089	0.0088
Earth	18174-05-05 04:04 G	8359101.51	8359101.67	8359101.89	0.0089	0.0062
Moon	18174-05-05 05:45 G	8359101.57	8359101.74	8359101.93	0.0089	0.0062 *
Moon	18175-05-07 15:21 G	8359468.95	8359469.14	8359469.35	0.0089	0.0058
Earth	18175-05-07 17:45 G	8359469.05	8359469.24	8359469.44	0.0089	0.0060 *
Mercury	18175-12-06 03:50 G	8359681.62	8359681.66	8359681.74	0.0089	0.0083
Mercury	18176-03-03 06:14 G	8359769.68	8359769.76	8359769.86	0.0089	0.0074
Earth	18176-05-09 06:28 G	8359836.59	8359836.77	8359836.99	0.0089	0.0058
Moon	18176-05-09 10:04 G	8359836.74	8359836.92	8359837.12	0.0089	0.0060 *
Mercury	18176-05-30 08:38 G	8359857.76	8359857.86	8359857.98	0.0089	0.0066
Mercury	18176-08-26 10:48 G	8359945.84	8359945.95	8359946.09	0.0089	0.0058
Mercury	18176-11-22 13:26 G	8360033.93	8360034.06	8360034.19	0.0089	0.0049
Mercury	18177-02-18 15:36 G	8360122.01	8360122.15	8360122.30	0.0089	0.0041

Moon	18177-05-11 16:33 G	8360203.99	8360204.19	8360204.40	0.0089	0.0055
Earth	18177-05-11 19:55 G	8360204.14	8360204.33	8360204.54	0.0089	0.0057 *
Mercury	18177-05-17 17:45 G	8360210.10	8360210.24	8360210.40	0.0089	0.0033
Mercury	18177-08-13 20:09 G	8360298.19	8360298.34	8360298.50	0.0089	0.0024
Mercury	18177-11-09 22:33 G	8360386.28	8360386.44	8360386.59	0.0089	0.0016
Mercury	18178-02-06 00:43 G	8360474.37	8360474.53	8360474.69	0.0089	0.0007
Mercury	18178-05-05 02:52 G	8360562.47	8360562.62	8360562.78	0.0089	0.0002
Earth	18178-05-14 08:38 G	8360571.68	8360571.86	8360572.09	0.0089	0.0056
Moon	18178-05-14 12:28 G	8360571.85	8360572.02	8360572.24	0.0089	0.0058 *
Mercury	18178-08-01 05:02 G	8360650.56	8360650.71	8360650.87	0.0089	0.0010
Mercury	18178-10-28 07:12 G	8360738.65	8360738.80	8360738.96	0.0089	0.0018
Mercury	18179-01-24 09:21 G	8360826.75	8360826.89	8360827.05	0.0089	0.0026
Mercury	18179-04-22 11:45 G	8360914.85	8360914.99	8360915.14	0.0089	0.0033
Moon	18179-05-16 19:12 G	8360939.11	8360939.30	8360939.52	0.0089	0.0052
Earth	18179-05-16 22:04 G	8360939.23	8360939.42	8360939.65	0.0089	0.0054 *
Mercury	18179-07-19 13:55 G	8361002.94	8361003.08	8361003.22	0.0089	0.0041
Mercury	18179-10-15 15:50 G	8361091.04	8361091.16	8361091.30	0.0089	0.0050
Mercury	18180-01-11 18:00 G	8361179.14	8361179.25	8361179.38	0.0089	0.0058
Mercury	18180-04-08 20:09 G	8361267.25	8361267.34	8361267.46	0.0089	0.0066
Earth	18180-05-18 11:31 G	8361306.78	8361306.98	8361307.20	0.0089	0.0052
Moon	18180-05-18 13:55 G	8361306.89	8361307.08	8361307.31	0.0089	0.0055 *
Mercury	18180-07-05 22:19 G	8361355.35	8361355.43	8361355.53	0.0089	0.0073
Mercury	18180-10-02 00:14 G	8361443.47	8361443.51	8361443.59	0.0089	0.0082
Mercury	18180-12-29 02:38 G	8361531.60	8361531.61	8361531.63	0.0089	0.0089
Moon	18181-05-20 23:02 G	8361674.27	8361674.46	8361674.70	0.0089	0.0048
Earth	18181-05-21 00:28 G	8361674.33	8361674.52	8361674.76	0.0089	0.0051 *
Earth	18182-05-23 13:40 G	8362041.87	8362042.07	8362042.31	0.0089	0.0048
Moon	18182-05-23 13:40 G	8362041.87	8362042.07	8362042.31	0.0089	0.0051 *
Earth	18183-05-26 02:52 G	8362409.42	8362409.62	8362409.86	0.0089	0.0046
Moon	18183-05-26 03:50 G	8362409.45	8362409.66	8362409.89	0.0089	0.0044 *

Moon	18184-05-27 13:55 G	8362776.88	8362777.08	8362777.33	0.0089	0.0048
Earth	18184-05-27 16:04 G	8362776.96	8362777.17	8362777.41	0.0089	0.0044 *
Earth	18185-05-30 05:31 G	8363144.50	8363144.73	8363144.96	0.0089	0.0042
Moon	18185-05-30 08:09 G	8363144.63	8363144.84	8363145.09	0.0089	0.0040 *
Moon	18186-06-01 14:52 G	8363511.91	8363512.12	8363512.37	0.0089	0.0044
Earth	18186-06-01 18:28 G	8363512.05	8363512.27	8363512.51	0.0089	0.0040 *
Earth	18187-06-04 07:26 G	8363879.58	8363879.81	8363880.05	0.0089	0.0038
Moon	18187-06-04 11:16 G	8363879.74	8363879.97	8363880.22	0.0089	0.0034 *
Moon	18188-06-05 17:31 G	8364247.01	8364247.23	8364247.47	0.0089	0.0039
Earth	18188-06-05 20:24 G	8364247.13	8364247.35	8364247.61	0.0089	0.0036 *
Earth	18189-06-08 09:36 G	8364614.68	8364614.90	8364615.16	0.0089	0.0033
Moon	18189-06-08 12:43 G	8364614.78	8364615.03	8364615.29	0.0089	0.0029 *
Moon	18190-06-10 21:07 G	8364982.15	8364982.38	8364982.62	0.0089	0.0035
Earth	18190-06-10 22:48 G	8364982.22	8364982.45	8364982.70	0.0089	0.0031 *
Earth	18191-06-13 12:00 G	8365349.77	8365350.00	8365350.26	0.0089	0.0028
Moon	18191-06-13 12:14 G	8365349.77	8365350.01	8365350.28	0.0089	0.0025 *
Earth	18192-06-15 01:26 G	8365717.32	8365717.56	8365717.81	0.0089	0.0026
Moon	18192-06-15 01:40 G	8365717.35	8365717.57	8365717.82	0.0089	0.0030 *
Moon	18193-06-17 12:57 G	8366084.78	8366085.04	8366085.30	0.0089	0.0019
Earth	18193-06-17 14:24 G	8366084.87	8366085.10	8366085.37	0.0089	0.0024 *
Earth	18194-06-20 03:36 G	8366452.41	8366452.65	8366452.91	0.0089	0.0021
Moon	18194-06-20 06:28 G	8366452.54	8366452.77	8366453.02	0.0089	0.0025 *
Moon	18195-06-22 13:40 G	8366819.82	8366820.07	8366820.34	0.0090	0.0014
Earth	18195-06-22 17:02 G	8366819.96	8366820.21	8366820.46	0.0090	0.0018 *
Earth	18196-06-24 05:45 G	8367187.49	8367187.74	8367188.00	0.0090	0.0016
Moon	18196-06-24 09:21 G	8367187.65	8367187.89	8367188.16	0.0090	0.0021 *
Moon	18197-06-26 15:36 G	8367554.90	8367555.15	8367555.41	0.0090	0.0009
Earth	18197-06-26 18:57 G	8367555.04	8367555.29	8367555.55	0.0090	0.0013 *
Earth	18198-06-29 07:40 G	8367922.56	8367922.82	8367923.08	0.0090	0.0010
Moon	18198-06-29 10:33 G	8367922.69	8367922.94	8367923.21	0.0090	0.0015 *



Moon	18199-07-01 18:28 G	8368290.02	8368290.27	8368290.53	0.0090	0.0003
Earth	18199-07-01 20:38 G	8368290.10	8368290.36	8368290.62	0.0090	0.0008 *
Earth	18200-07-04 09:36 G	8368657.64	8368657.90	8368658.16	0.0090	0.0005
Moon	18200-07-04 10:19 G	8368657.66	8368657.93	8368658.19	0.0090	0.0009 *
Earth	18201-07-06 22:19 G	8369025.17	8369025.43	8369025.69	0.0090	0.0002
Moon	18201-07-06 22:19 G	8369025.18	8369025.43	8369025.68	0.0090	0.0002 *
Moon	18202-07-09 09:36 G	8369392.63	8369392.90	8369393.17	0.0089	0.0004
Earth	18202-07-09 11:16 G	8369392.71	8369392.97	8369393.22	0.0089	0.0002 *
Earth	18203-07-12 00:00 G	8369760.24	8369760.50	8369760.76	0.0089	0.0003
Moon	18203-07-12 02:38 G	8369760.36	8369760.61	8369760.86	0.0089	0.0008 *
Moon	18204-07-13 09:50 G	8370127.65	8370127.91	8370128.18	0.0089	0.0002
Earth	18204-07-13 12:57 G	8370127.78	8370128.04	8370128.30	0.0089	0.0006 *
Earth	18205-07-16 01:40 G	8370495.32	8370495.57	8370495.83	0.0089	0.0009
Moon	18205-07-16 05:16 G	8370495.48	8370495.72	8370495.98	0.0089	0.0014 *
Moon	18206-07-18 11:16 G	8370862.71	8370862.97	8370863.22	0.0089	0.0007
Earth	18206-07-18 14:24 G	8370862.85	8370863.10	8370863.36	0.0089	0.0012 *
Earth	18207-07-21 03:07 G	8371230.38	8371230.63	8371230.89	0.0089	0.0014
Moon	18207-07-21 06:14 G	8371230.52	8371230.76	8371231.03	0.0089	0.0019 *
Moon	18208-07-22 13:40 G	8371597.82	8371598.07	8371598.32	0.0089	0.0012
Earth	18208-07-22 15:50 G	8371597.91	8371598.16	8371598.42	0.0089	0.0016 *
Earth	18209-07-25 04:19 G	8371965.43	8371965.68	8371965.93	0.0089	0.0019
Moon	18209-07-25 05:02 G	8371965.46	8371965.71	8371965.98	0.0089	0.0023 *
Moon	18210-07-27 16:19 G	8372332.94	8372333.18	8372333.43	0.0089	0.0017
Earth	18210-07-27 16:33 G	8372332.95	8372333.19	8372333.45	0.0089	0.0022 *
Moon	18211-07-30 03:21 G	8372700.41	8372700.64	8372700.91	0.0089	0.0029
Earth	18211-07-30 05:02 G	8372700.47	8372700.71	8372700.96	0.0089	0.0024 *
Earth	18212-07-31 17:02 G	8373067.98	8373068.21	8373068.47	0.0089	0.0027
Moon	18212-07-31 19:26 G	8373068.08	8373068.31	8373068.57	0.0089	0.0022 *
Moon	18213-08-03 02:38 G	8373435.37	8373435.61	8373435.86	0.0089	0.0033
Earth	18213-08-03 05:31 G	8373435.50	8373435.73	8373435.98	0.0089	0.0029 *

Earth	18214-08-05 17:31 G	8373803.00	8373803.23	8373803.49	0.0089	0.0031
Moon	18214-08-05 21:21 G	8373803.15	8373803.39	8373803.64	0.0089	0.0026 *
Moon	18215-08-08 02:38 G	8374170.39	8374170.61	8374170.85	0.0089	0.0037
Earth	18215-08-08 05:45 G	8374170.52	8374170.74	8374171.00	0.0089	0.0034 *
Earth	18216-08-09 18:00 G	8374538.03	8374538.25	8374538.50	0.0089	0.0036
Moon	18216-08-09 21:36 G	8374538.16	8374538.40	8374538.65	0.0089	0.0032 *
Moon	18217-08-12 03:50 G	8374905.46	8374905.66	8374905.90	0.0089	0.0042
Earth	18217-08-12 06:14 G	8374905.54	8374905.76	8374906.01	0.0089	0.0038 *
Earth	18218-08-14 18:28 G	8375273.05	8375273.27	8375273.51	0.0089	0.0040
Moon	18218-08-14 19:26 G	8375273.09	8375273.31	8375273.57	0.0089	0.0036 *
Moon	18219-08-17 06:00 G	8375640.55	8375640.75	8375640.98	0.0089	0.0046
Earth	18219-08-17 06:43 G	8375640.56	8375640.78	8375641.01	0.0089	0.0042 *
Moon	18220-08-18 17:02 G	8376007.99	8376008.21	8376008.46	0.0089	0.0040
Earth	18220-08-18 18:43 G	8376008.06	8376008.28	8376008.50	0.0089	0.0044 *
Earth	18221-08-21 06:14 G	8376375.55	8376375.76	8376375.99	0.0089	0.0046
Moon	18221-08-21 08:24 G	8376375.66	8376375.85	8376376.07	0.0089	0.0050 *
Moon	18222-08-23 15:21 G	8376742.92	8376743.14	8376743.37	0.0089	0.0044
Earth	18222-08-23 18:00 G	8376743.05	8376743.25	8376743.48	0.0089	0.0048 *
Earth	18223-08-26 05:31 G	8377110.54	8377110.73	8377110.96	0.0089	0.0049
Moon	18223-08-26 09:07 G	8377110.70	8377110.88	8377111.11	0.0089	0.0054 *
Moon	18224-08-27 13:55 G	8377477.88	8377478.08	8377478.32	0.0089	0.0047
Earth	18224-08-27 17:45 G	8377478.03	8377478.24	8377478.45	0.0089	0.0051 *
Earth	18225-08-30 04:48 G	8377845.51	8377845.70	8377845.92	0.0089	0.0052
Moon	18225-08-30 08:09 G	8377845.65	8377845.84	8377846.06	0.0089	0.0055 *
Moon	18226-09-01 14:09 G	8378212.90	8378213.09	8378213.32	0.0089	0.0051
Earth	18226-09-01 16:19 G	8378213.00	8378213.18	8378213.41	0.0089	0.0054 *
Mars	18226-12-31 06:57 G	8378333.49	8378333.79	8378334.09	0.0089	0.0015
Earth	18227-09-04 04:04 G	8378580.48	8378580.67	8378580.88	0.0089	0.0055
Moon	18227-09-04 05:02 G	8378580.53	8378580.71	8378580.94	0.0089	0.0058 *
Moon	18228-09-05 14:52 G	8378947.95	8378948.12	8378948.34	0.0089	0.0054

Earth	18228-09-05 15:50 G	8378947.96	8378948.16	8378948.36	0.0089	0.0056 *
Mars	18228-11-24 16:48 G	8379028.03	8379028.20	8379028.43	0.0089	0.0067
Moon	18229-09-08 01:26 G	8379315.39	8379315.56	8379315.77	0.0089	0.0061
Earth	18229-09-08 02:52 G	8379315.45	8379315.62	8379315.84	0.0089	0.0058 *
Earth	18230-09-10 14:24 G	8379682.93	8379683.10	8379683.31	0.0089	0.0059
Moon	18230-09-10 16:33 G	8379683.02	8379683.19	8379683.41	0.0089	0.0056 *
Moon	18231-09-12 22:48 G	8380050.29	8380050.45	8380050.66	0.0089	0.0063
Earth	18231-09-13 01:55 G	8380050.41	8380050.58	8380050.79	0.0089	0.0060 *
Earth	18232-09-14 13:12 G	8380417.88	8380418.05	8380418.25	0.0089	0.0061
Moon	18232-09-14 16:48 G	8380418.03	8380418.20	8380418.41	0.0089	0.0058 *
Moon	18233-09-16 20:52 G	8380785.22	8380785.37	8380785.57	0.0089	0.0065
Earth	18233-09-17 00:14 G	8380785.35	8380785.51	8380785.72	0.0089	0.0062 *
Earth	18234-09-19 11:16 G	8381152.82	8381152.97	8381153.18	0.0089	0.0063
Moon	18234-09-19 15:07 G	8381152.95	8381153.13	8381153.33	0.0089	0.0060 *
Moon	18235-09-21 20:52 G	8381520.22	8381520.37	8381520.55	0.0089	0.0066
Earth	18235-09-21 22:48 G	8381520.29	8381520.45	8381520.65	0.0089	0.0063 *
Earth	18236-09-23 09:36 G	8381887.74	8381887.90	8381888.10	0.0089	0.0064
Moon	18236-09-23 10:33 G	8381887.78	8381887.94	8381888.16	0.0089	0.0062 *
Earth	18237-09-25 20:52 G	8382255.20	8382255.37	8382255.56	0.0089	0.0064
Moon	18237-09-25 20:24 G	8382255.21	8382255.35	8382255.54	0.0089	0.0067 *
Moon	18238-09-28 06:00 G	8382622.58	8382622.75	8382622.96	0.0089	0.0062
Earth	18238-09-28 07:40 G	8382622.66	8382622.82	8382623.01	0.0089	0.0065 *
Earth	18239-09-30 18:28 G	8382990.12	8382990.27	8382990.46	0.0089	0.0065
Moon	18239-09-30 20:38 G	8382990.23	8382990.36	8382990.55	0.0089	0.0068 *
Moon	18240-10-02 02:24 G	8383357.43	8383357.60	8383357.80	0.0089	0.0063
Earth	18240-10-02 05:45 G	8383357.57	8383357.74	8383357.92	0.0089	0.0065 *
Earth	18241-10-04 16:33 G	8383725.02	8383725.19	8383725.37	0.0089	0.0065
Moon	18241-10-04 19:55 G	8383725.19	8383725.33	8383725.51	0.0089	0.0068 *
Moon	18242-10-07 00:14 G	8384092.34	8384092.51	8384092.69	0.0089	0.0063
Earth	18242-10-07 03:36 G	8384092.48	8384092.65	8384092.83	0.0089	0.0065 *

Earth	18243-10-09 14:24 G	8384459.93	8384460.10	8384460.28	0.0089	0.0065
Moon	18243-10-09 17:16 G	8384460.07	8384460.22	8384460.41	0.0089	0.0067 *
Moon	18244-10-10 23:02 G	8384827.31	8384827.46	8384827.65	0.0088	0.0063
Earth	18244-10-11 00:57 G	8384827.38	8384827.54	8384827.73	0.0088	0.0065 *
Earth	18245-10-13 11:31 G	8385194.83	8385194.98	8385195.18	0.0088	0.0065
Moon	18245-10-13 12:43 G	8385194.86	8385195.03	8385195.22	0.0088	0.0066 *
Earth	18246-10-15 22:04 G	8385562.27	8385562.42	8385562.62	0.0088	0.0065
Moon	18246-10-15 22:33 G	8385562.28	8385562.44	8385562.63	0.0088	0.0063 *
Moon	18247-10-18 06:57 G	8385929.63	8385929.79	8385929.98	0.0088	0.0066
Earth	18247-10-18 08:52 G	8385929.71	8385929.87	8385930.06	0.0088	0.0064 *
Earth	18248-10-19 18:57 G	8386297.14	8386297.29	8386297.50	0.0088	0.0064
Moon	18248-10-19 21:50 G	8386297.25	8386297.41	8386297.60	0.0088	0.0062 *
Moon	18249-10-22 02:24 G	8386664.44	8386664.60	8386664.80	0.0088	0.0064
Earth	18249-10-22 05:45 G	8386664.58	8386664.74	8386664.94	0.0088	0.0062 *
Venus	18250-10-01 16:48 G	8387009.09	8387009.20	8387009.36	0.0088	0.0070
Earth	18250-10-24 16:04 G	8387032.01	8387032.17	8387032.37	0.0088	0.0062
Moon	18250-10-24 19:55 G	8387032.15	8387032.33	8387032.53	0.0088	0.0060 *
Venus	18251-05-15 06:00 G	8387234.58	8387234.75	8387234.94	0.0088	0.0049
Moon	18251-10-26 23:16 G	8387399.32	8387399.47	8387399.67	0.0088	0.0063
Earth	18251-10-27 02:52 G	8387399.44	8387399.62	8387399.81	0.0088	0.0061 *
Venus	18251-12-26 18:57 G	8387460.08	8387460.29	8387460.50	0.0088	0.0030
Venus	18252-08-08 07:40 G	8387685.61	8387685.82	8387686.05	0.0088	0.0010
Earth	18252-10-28 13:12 G	8387766.87	8387767.05	8387767.24	0.0088	0.0060
Moon	18252-10-28 15:36 G	8387766.99	8387767.15	8387767.37	0.0088	0.0060 *
Venus	18253-03-21 20:38 G	8387911.14	8387911.36	8387911.58	0.0088	0.0010
Moon	18253-10-30 22:04 G	8388134.25	8388134.42	8388134.61	0.0088	0.0061
Earth	18253-10-30 23:45 G	8388134.30	8388134.49	8388134.68	0.0088	0.0059 *
Venus	18253-11-02 09:07 G	8388136.68	8388136.88	8388137.10	0.0088	0.0030
Venus	18254-06-15 21:36 G	8388362.24	8388362.40	8388362.60	0.0088	0.0050
Earth	18254-11-02 10:04 G	8388501.73	8388501.92	8388502.12	0.0088	0.0058

Moon	18254-11-02 10:33 G	8388501.74	8388501.94	8388502.15	0.0088	0.0057 *
Venus	18255-01-27 10:33 G	8388587.82	8388587.94	8388588.09	0.0088	0.0069
Venus	18255-09-09 23:31 G	8388813.48	8388813.48	8388813.50	0.0088	0.0088
Earth	18255-11-04 20:24 G	8388869.16	8388869.35	8388869.55	0.0088	0.0057
Moon	18255-11-04 20:52 G	8388869.20	8388869.37	8388869.57	0.0088	0.0058 *
Moon	18256-11-06 04:33 G	8389236.49	8389236.69	8389236.90	0.0088	0.0053
Earth	18256-11-06 06:43 G	8389236.60	8389236.78	8389236.99	0.0088	0.0055 *
Mercury	18257-03-09 04:19 G	8389359.66	8389359.68	8389359.72	0.0088	0.0086
Mercury	18257-06-05 06:28 G	8389447.71	8389447.77	8389447.84	0.0088	0.0079
Mercury	18257-09-01 08:24 G	8389535.77	8389535.85	8389535.94	0.0088	0.0071
Earth	18257-11-08 16:48 G	8389604.02	8389604.20	8389604.43	0.0088	0.0054
Moon	18257-11-08 19:40 G	8389604.14	8389604.32	8389604.53	0.0088	0.0055 *
Mercury	18257-11-28 10:04 G	8389623.83	8389623.92	8389624.04	0.0088	0.0064
Mercury	18258-02-24 12:14 G	8389711.90	8389712.01	8389712.14	0.0088	0.0056
Mercury	18258-05-23 14:09 G	8389799.97	8389800.09	8389800.23	0.0088	0.0049
Mercury	18258-08-19 16:19 G	8389888.05	8389888.18	8389888.32	0.0088	0.0041
Moon	18258-11-10 23:31 G	8389971.30	8389971.48	8389971.72	0.0088	0.0053
Earth	18258-11-11 03:36 G	8389971.45	8389971.65	8389971.86	0.0088	0.0052 *
Mercury	18258-11-15 18:14 G	8389976.13	8389976.26	8389976.41	0.0088	0.0034
Mercury	18259-02-11 20:24 G	8390064.20	8390064.35	8390064.50	0.0088	0.0026
Mercury	18259-05-10 22:33 G	8390152.28	8390152.44	8390152.59	0.0088	0.0018
Mercury	18259-08-07 00:28 G	8390240.37	8390240.52	8390240.68	0.0088	0.0011
Mercury	18259-11-03 02:24 G	8390328.45	8390328.60	8390328.76	0.0088	0.0004
Earth	18259-11-13 13:26 G	8390338.87	8390339.06	8390339.29	0.0088	0.0051
Moon	18259-11-13 17:16 G	8390339.03	8390339.22	8390339.44	0.0088	0.0052 *
Mercury	18260-01-30 04:33 G	8390416.53	8390416.69	8390416.85	0.0088	0.0005
Mercury	18260-04-27 06:43 G	8390504.62	8390504.78	8390504.93	0.0088	0.0012
Mercury	18260-07-24 08:38 G	8390592.71	8390592.86	8390593.02	0.0088	0.0020
Mercury	18260-10-20 10:33 G	8390680.80	8390680.94	8390681.10	0.0088	0.0028
Moon	18260-11-14 20:38 G	8390706.17	8390706.36	8390706.59	0.0088	0.0049

Earth	18260-11-15 00:00 G	8390706.30	8390706.50	8390706.72	0.0088	0.0050	*
Mercury	18261-01-16 12:43 G	8390768.89	8390769.03	8390769.18	0.0088	0.0036	
Mercury	18261-04-14 14:52 G	8390856.99	8390857.12	8390857.26	0.0088	0.0043	
Mercury	18261-07-11 17:02 G	8390945.08	8390945.21	8390945.34	0.0088	0.0051	
Mercury	18261-10-07 18:57 G	8391033.18	8391033.29	8391033.41	0.0088	0.0059	
Earth	18261-11-17 09:50 G	8391073.72	8391073.91	8391074.15	0.0088	0.0048	
Moon	18261-11-17 12:43 G	8391073.83	8391074.03	8391074.26	0.0088	0.0048	*
Mercury	18262-01-03 21:07 G	8391121.28	8391121.38	8391121.49	0.0088	0.0067	
Mercury	18262-04-01 23:02 G	8391209.39	8391209.46	8391209.56	0.0088	0.0075	
Mercury	18262-06-29 01:12 G	8391297.51	8391297.55	8391297.62	0.0088	0.0083	
Moon	18262-11-19 19:26 G	8391441.10	8391441.31	8391441.53	0.0088	0.0045	
Earth	18262-11-19 20:24 G	8391441.14	8391441.35	8391441.58	0.0088	0.0046	*
Moon	18263-11-22 06:14 G	8391808.55	8391808.76	8391809.01	0.0088	0.0045	
Earth	18263-11-22 06:43 G	8391808.56	8391808.78	8391809.00	0.0088	0.0044	*
Earth	18264-11-23 16:33 G	8392175.98	8392176.19	8392176.43	0.0088	0.0043	
Moon	18264-11-23 17:31 G	8392176.03	8392176.23	8392176.46	0.0088	0.0043	*
Moon	18265-11-26 00:00 G	8392543.29	8392543.50	8392543.75	0.0088	0.0042	
Earth	18265-11-26 02:52 G	8392543.41	8392543.62	8392543.86	0.0088	0.0041	*
Earth	18266-11-28 12:57 G	8392910.83	8392911.04	8392911.29	0.0088	0.0039	
Moon	18266-11-28 15:50 G	8392910.95	8392911.16	8392911.41	0.0088	0.0039	*
Moon	18267-11-30 19:55 G	8393278.11	8393278.33	8393278.57	0.0088	0.0037	
Earth	18267-11-30 23:31 G	8393278.26	8393278.48	8393278.72	0.0088	0.0037	*
Earth	18268-12-02 09:36 G	8393645.68	8393645.90	8393646.15	0.0088	0.0035	
Moon	18268-12-02 13:12 G	8393645.82	8393646.05	8393646.30	0.0088	0.0034	*
Moon	18269-12-04 17:16 G	8394013.00	8394013.22	8394013.47	0.0088	0.0033	
Earth	18269-12-04 20:09 G	8394013.11	8394013.34	8394013.59	0.0088	0.0033	*
Earth	18270-12-07 06:28 G	8394380.54	8394380.77	8394381.02	0.0088	0.0031	
Moon	18270-12-07 08:52 G	8394380.63	8394380.87	8394381.13	0.0088	0.0031	*
Moon	18271-12-09 16:19 G	8394747.95	8394748.18	8394748.42	0.0088	0.0029	
Earth	18271-12-09 16:33 G	8394747.97	8394748.19	8394748.45	0.0088	0.0029	*

Moon	18272-12-11 02:52 G	8395115.37	8395115.62	8395115.88	0.0088	0.0026
Earth	18272-12-11 03:21 G	8395115.39	8395115.64	8395115.88	0.0088	0.0026 *
Earth	18273-12-13 13:26 G	8395482.82	8395483.06	8395483.31	0.0088	0.0024
Moon	18273-12-13 14:52 G	8395482.89	8395483.12	8395483.37	0.0088	0.0024 *
Moon	18274-12-15 20:38 G	8395850.11	8395850.36	8395850.62	0.0088	0.0021
Earth	18274-12-15 23:31 G	8395850.24	8395850.48	8395850.74	0.0088	0.0022 *
Earth	18275-12-18 09:50 G	8396217.67	8396217.91	8396218.17	0.0088	0.0020
Moon	18275-12-18 13:12 G	8396217.81	8396218.05	8396218.30	0.0088	0.0019 *
Moon	18276-12-19 16:33 G	8396584.94	8396585.19	8396585.45	0.0088	0.0018
Earth	18276-12-19 20:24 G	8396585.10	8396585.35	8396585.60	0.0088	0.0017 *
Earth	18277-12-22 06:28 G	8396952.53	8396952.77	8396953.04	0.0088	0.0015
Moon	18277-12-22 09:50 G	8396952.66	8396952.91	8396953.18	0.0088	0.0015 *
Moon	18278-12-24 14:38 G	8397319.86	8397320.11	8397320.36	0.0088	0.0013
Earth	18278-12-24 17:02 G	8397319.96	8397320.21	8397320.47	0.0088	0.0013 *
Earth	18279-12-27 03:36 G	8397687.39	8397687.65	8397687.90	0.0088	0.0010
Moon	18279-12-27 05:31 G	8397687.47	8397687.73	8397687.99	0.0088	0.0009 *
Earth	18280-12-28 14:09 G	8398054.83	8398055.09	8398055.35	0.0088	0.0008
Moon	18280-12-28 13:55 G	8398054.84	8398055.08	8398055.33	0.0088	0.0008 *
Moon	18281-12-31 00:00 G	8398422.23	8398422.50	8398422.77	0.0088	0.0005
Earth	18281-12-31 00:43 G	8398422.28	8398422.53	8398422.79	0.0088	0.0005 *
Earth	18283-01-02 11:16 G	8398789.71	8398789.97	8398790.23	0.0088	0.0003
Moon	18283-01-02 12:57 G	8398789.80	8398790.04	8398790.30	0.0088	0.0004 *
Moon	18284-01-04 18:43 G	8399157.01	8399157.28	8399157.54	0.0088	0.0001
Earth	18284-01-04 21:50 G	8399157.15	8399157.41	8399157.67	0.0088	0.0001 *
Earth	18285-01-06 08:24 G	8399524.59	8399524.85	8399525.11	0.0088	0.0002
Moon	18285-01-06 11:45 G	8399524.73	8399524.99	8399525.24	0.0088	0.0001 *
Moon	18286-01-08 15:07 G	8399891.88	8399892.13	8399892.39	0.0088	0.0006
Earth	18286-01-08 18:57 G	8399892.04	8399892.29	8399892.55	0.0088	0.0005 *
Earth	18287-01-11 05:31 G	8400259.47	8400259.73	8400259.99	0.0088	0.0007
Moon	18287-01-11 08:38 G	8400259.60	8400259.86	8400260.12	0.0088	0.0006 *

Moon	18288-01-13 13:26 G	8400626.82	8400627.06	8400627.32	0.0088	0.0011
Earth	18288-01-13 16:04 G	8400626.92	8400627.17	8400627.43	0.0088	0.0009 *
Earth	18289-01-15 02:38 G	8400994.36	8400994.61	8400994.87	0.0088	0.0012
Moon	18289-01-15 04:19 G	8400994.42	8400994.68	8400994.95	0.0088	0.0010 *
Earth	18290-01-17 13:26 G	8401361.81	8401362.06	8401362.32	0.0088	0.0014
Moon	18290-01-17 13:26 G	8401361.83	8401362.06	8401362.32	0.0088	0.0015 *
Moon	18291-01-19 23:02 G	8401729.20	8401729.46	8401729.72	0.0088	0.0015
Earth	18291-01-20 00:00 G	8401729.25	8401729.50	8401729.76	0.0088	0.0016 *
Earth	18292-01-22 10:33 G	8402096.70	8402096.94	8402097.21	0.0088	0.0019
Moon	18292-01-22 12:57 G	8402096.80	8402097.04	8402097.29	0.0088	0.0020 *
Moon	18293-01-23 18:28 G	8402464.02	8402464.27	8402464.53	0.0088	0.0020
Earth	18293-01-23 21:50 G	8402464.17	8402464.41	8402464.67	0.0088	0.0021 *
Earth	18294-01-26 08:38 G	8402831.62	8402831.86	8402832.12	0.0088	0.0023
Moon	18294-01-26 12:00 G	8402831.76	8402832.00	8402832.26	0.0088	0.0025 *
Moon	18295-01-28 16:04 G	8403198.93	8403199.17	8403199.43	0.0088	0.0024
Earth	18295-01-28 19:55 G	8403199.09	8403199.33	8403199.58	0.0088	0.0025 *
Earth	18296-01-31 06:43 G	8403566.55	8403566.78	8403567.04	0.0088	0.0028
Moon	18296-01-31 09:36 G	8403566.67	8403566.90	8403567.16	0.0088	0.0029 *
Moon	18297-02-01 15:36 G	8403933.93	8403934.15	8403934.41	0.0088	0.0028
Earth	18297-02-01 18:00 G	8403934.02	8403934.25	8403934.50	0.0088	0.0030 *
Earth	18298-02-04 05:02 G	8404301.48	8404301.71	8404301.96	0.0088	0.0032
Moon	18298-02-04 06:28 G	8404301.53	8404301.77	8404302.03	0.0088	0.0034 *
Earth	18299-02-06 16:04 G	8404668.94	8404669.17	8404669.42	0.0088	0.0034
Moon	18299-02-06 16:48 G	8404668.97	8404669.20	8404669.43	0.0088	0.0032 *
Moon	18300-02-09 01:55 G	8405036.36	8405036.58	8405036.84	0.0088	0.0038
Earth	18300-02-09 03:21 G	8405036.42	8405036.64	8405036.89	0.0088	0.0036 *
Earth	18301-02-11 14:24 G	8405403.89	8405404.10	8405404.35	0.0088	0.0039
Moon	18301-02-11 17:16 G	8405403.99	8405404.22	8405404.45	0.0088	0.0036 *
Moon	18302-02-13 22:33 G	8405771.22	8405771.44	8405771.68	0.0088	0.0041
Earth	18302-02-14 01:40 G	8405771.36	8405771.57	8405771.82	0.0088	0.0040 *



Earth	18303-02-16 12:57 G	8406138.83	8406139.04	8406139.29	0.0088	0.0042
Moon	18303-02-16 16:33 G	8406138.97	8406139.19	8406139.43	0.0088	0.0039 *
Moon	18304-02-18 20:52 G	8406506.17	8406506.37	8406506.60	0.0088	0.0047
Earth	18304-02-19 00:57 G	8406506.32	8406506.54	8406506.76	0.0088	0.0044 *
Earth	18305-02-20 12:14 G	8406873.80	8406874.01	8406874.24	0.0088	0.0045
Moon	18305-02-20 14:52 G	8406873.91	8406874.12	8406874.37	0.0088	0.0043 *
Moon	18306-02-22 21:21 G	8407241.21	8407241.39	8407241.62	0.0088	0.0051
Earth	18306-02-22 23:45 G	8407241.29	8407241.49	8407241.73	0.0088	0.0047 *
Earth	18307-02-25 11:45 G	8407608.77	8407608.99	8407609.21	0.0088	0.0049
Moon	18307-02-25 12:43 G	8407608.81	8407609.03	8407609.27	0.0088	0.0046 *
Earth	18308-02-27 23:16 G	8407976.27	8407976.47	8407976.70	0.0088	0.0050
Moon	18308-02-28 00:00 G	8407976.31	8407976.50	8407976.71	0.0088	0.0053 *
Mars	18308-12-02 22:33 G	8408255.27	8408255.44	8408255.69	0.0088	0.0068
Moon	18309-03-01 10:04 G	8408343.70	8408343.92	8408344.15	0.0088	0.0049
Earth	18309-03-01 11:31 G	8408343.77	8408343.98	8408344.19	0.0088	0.0052 *
Earth	18310-03-03 22:48 G	8408711.26	8408711.45	8408711.67	0.0088	0.0053
Moon	18310-03-04 01:26 G	8408711.38	8408711.56	8408711.76	0.0088	0.0057 *
Mars	18310-10-29 05:02 G	8408950.40	8408950.71	8408951.03	0.0088	0.0019
Moon	18311-03-06 07:40 G	8409078.61	8409078.82	8409079.04	0.0088	0.0052
Earth	18311-03-06 10:48 G	8409078.76	8409078.95	8409079.17	0.0088	0.0055 *
Earth	18312-03-07 22:48 G	8409446.26	8409446.45	8409446.66	0.0088	0.0056
Moon	18312-03-08 01:55 G	8409446.41	8409446.58	8409446.79	0.0088	0.0060 *
Moon	18313-03-10 06:57 G	8409813.60	8409813.79	8409814.01	0.0088	0.0053
Earth	18313-03-10 10:48 G	8409813.76	8409813.95	8409814.16	0.0088	0.0057 *
Earth	18314-03-12 22:48 G	8410181.26	8410181.45	8410181.65	0.0088	0.0058
Moon	18314-03-13 01:12 G	8410181.39	8410181.55	8410181.77	0.0088	0.0062 *
Moon	18315-03-15 08:09 G	8410548.67	8410548.84	8410549.06	0.0088	0.0056
Earth	18315-03-15 10:48 G	8410548.76	8410548.95	8410549.15	0.0088	0.0059 *
Earth	18316-03-16 22:48 G	8410916.27	8410916.45	8410916.65	0.0088	0.0060
Moon	18316-03-16 23:31 G	8410916.32	8410916.48	8410916.70	0.0088	0.0064 *

Earth	18317-03-19 10:48 G	8411283.78	8411283.95	8411284.16	0.0089	0.0061
Moon	18317-03-19 11:16 G	8411283.80	8411283.97	8411284.18	0.0089	0.0058 *
Moon	18318-03-21 21:50 G	8411651.25	8411651.41	8411651.61	0.0089	0.0065
Earth	18318-03-21 22:48 G	8411651.29	8411651.45	8411651.66	0.0089	0.0062 *
Earth	18319-03-24 11:31 G	8412018.81	8412018.98	8412019.18	0.0089	0.0062
Moon	18319-03-24 14:09 G	8412018.90	8412019.09	8412019.29	0.0089	0.0058 *
Moon	18320-03-25 20:38 G	8412386.20	8412386.36	8412386.55	0.0089	0.0066
Earth	18320-03-25 23:45 G	8412386.33	8412386.49	8412386.70	0.0089	0.0063 *
Earth	18321-03-28 12:28 G	8412753.85	8412754.02	8412754.21	0.0089	0.0063
Moon	18321-03-28 15:36 G	8412753.98	8412754.15	8412754.37	0.0089	0.0059 *
Moon	18322-03-30 21:07 G	8413121.24	8413121.38	8413121.57	0.0089	0.0068
Earth	18322-03-31 01:12 G	8413121.38	8413121.55	8413121.74	0.0089	0.0063 *
Earth	18323-04-02 13:12 G	8413488.89	8413489.05	8413489.25	0.0089	0.0064
Moon	18323-04-02 16:33 G	8413489.00	8413489.19	8413489.39	0.0089	0.0059 *
Moon	18324-04-03 23:31 G	8413856.33	8413856.48	8413856.66	0.0089	0.0068
Earth	18324-04-04 01:40 G	8413856.42	8413856.57	8413856.78	0.0089	0.0064 *
Earth	18325-04-06 14:24 G	8414223.94	8414224.10	8414224.30	0.0089	0.0064
Moon	18325-04-06 15:50 G	8414223.97	8414224.16	8414224.37	0.0089	0.0059 *
Earth	18326-04-09 02:38 G	8414591.45	8414591.61	8414591.82	0.0089	0.0064
Moon	18326-04-09 02:52 G	8414591.48	8414591.62	8414591.81	0.0089	0.0068 *
Moon	18327-04-11 14:38 G	8414958.92	8414959.11	8414959.32	0.0089	0.0059
Earth	18327-04-11 15:21 G	8414958.98	8414959.14	8414959.34	0.0089	0.0064 *
Earth	18328-04-13 04:19 G	8415326.51	8415326.68	8415326.87	0.0089	0.0063
Moon	18328-04-13 06:28 G	8415326.63	8415326.77	8415326.95	0.0089	0.0068 *
Moon	18329-04-15 13:26 G	8415693.89	8415694.06	8415694.28	0.0089	0.0059
Earth	18329-04-15 16:48 G	8415694.04	8415694.20	8415694.40	0.0089	0.0063 *
Earth	18330-04-18 05:16 G	8416061.56	8416061.72	8416061.93	0.0089	0.0063
Moon	18330-04-18 09:07 G	8416061.72	8416061.88	8416062.06	0.0089	0.0067 *
Moon	18331-04-20 14:52 G	8416428.93	8416429.12	8416429.33	0.0089	0.0057
Earth	18331-04-20 18:28 G	8416429.10	8416429.27	8416429.47	0.0089	0.0062 *

Earth	18332-04-22 07:40 G	8416796.64	8416796.82	8416797.01	0.0089	0.0061
Moon	18332-04-22 10:19 G	8416796.78	8416796.93	8416797.13	0.0089	0.0066 *
Moon	18333-04-24 18:00 G	8417164.06	8417164.25	8417164.45	0.0089	0.0056
Earth	18333-04-24 20:24 G	8417164.18	8417164.35	8417164.56	0.0089	0.0061 *
Venus	18333-06-30 18:28 G	8417231.20	8417231.27	8417231.37	0.0089	0.0082
Venus	18334-02-11 07:55 G	8417456.68	8417456.83	8417457.00	0.0089	0.0062
Earth	18334-04-27 09:21 G	8417531.72	8417531.89	8417532.10	0.0089	0.0060
Moon	18334-04-27 11:02 G	8417531.79	8417531.96	8417532.15	0.0089	0.0065 *
Venus	18334-09-24 21:07 G	8417682.20	8417682.38	8417682.59	0.0089	0.0042
Moon	18335-04-29 22:19 G	8417899.25	8417899.43	8417899.64	0.0089	0.0055
Earth	18335-04-29 22:33 G	8417899.26	8417899.44	8417899.65	0.0089	0.0059 *
Venus	18335-05-08 10:19 G	8417907.73	8417907.93	8417908.15	0.0089	0.0022
Venus	18335-12-19 23:45 G	8418133.27	8418133.49	8418133.71	0.0089	0.0002
Moon	18336-05-01 11:02 G	8418266.78	8418266.96	8418267.16	0.0089	0.0062
Earth	18336-05-01 11:31 G	8418266.80	8418266.98	8418267.19	0.0089	0.0058 *
Venus	18336-08-01 12:43 G	8418358.82	8418359.03	8418359.25	0.0089	0.0019
Venus	18337-03-15 01:55 G	8418584.39	8418584.58	8418584.79	0.0089	0.0039
Earth	18337-05-04 00:28 G	8418634.34	8418634.52	8418634.73	0.0089	0.0057
Moon	18337-05-04 02:52 G	8418634.42	8418634.62	8418634.83	0.0089	0.0053 *
Venus	18337-10-26 15:07 G	8418809.98	8418810.13	8418810.30	0.0089	0.0059
Moon	18338-05-06 10:33 G	8419001.76	8419001.94	8419002.15	0.0089	0.0060
Earth	18338-05-06 13:12 G	8419001.88	8419002.05	8419002.28	0.0089	0.0057 *
Venus	18338-06-09 04:19 G	8419035.59	8419035.68	8419035.79	0.0089	0.0080
Earth	18339-05-09 02:09 G	8419369.41	8419369.59	8419369.82	0.0089	0.0055
Moon	18339-05-09 05:45 G	8419369.54	8419369.74	8419369.96	0.0089	0.0051 *
Moon	18340-05-10 11:45 G	8419736.81	8419736.99	8419737.20	0.0089	0.0058
Earth	18340-05-10 15:36 G	8419736.96	8419737.15	8419737.37	0.0089	0.0053 *
Mercury	18340-06-07 01:12 G	8419764.52	8419764.55	8419764.59	0.0089	0.0087
Mercury	18340-09-03 03:21 G	8419852.58	8419852.64	8419852.73	0.0089	0.0078
Mercury	18340-11-30 06:00 G	8419940.65	8419940.75	8419940.85	0.0089	0.0070

Mercury	18341-02-26 08:09 G	8420028.73	8420028.84	8420028.96	0.0089	0.0061
Earth	18341-05-13 04:19 G	8420104.49	8420104.68	8420104.91	0.0089	0.0053
Moon	18341-05-13 08:09 G	8420104.62	8420104.84	8420105.06	0.0089	0.0048 *
Mercury	18341-05-25 10:19 G	8420116.81	8420116.93	8420117.07	0.0089	0.0053
Mercury	18341-08-21 12:57 G	8420204.90	8420205.04	8420205.18	0.0089	0.0045
Mercury	18341-11-17 15:07 G	8420292.99	8420293.13	8420293.28	0.0089	0.0036
Mercury	18342-02-13 17:16 G	8420381.08	8420381.22	8420381.38	0.0089	0.0028
Mercury	18342-05-12 19:40 G	8420469.17	8420469.32	8420469.48	0.0089	0.0020
Moon	18342-05-15 14:52 G	8420471.93	8420472.12	8420472.33	0.0089	0.0055
Earth	18342-05-15 17:31 G	8420472.04	8420472.23	8420472.46	0.0089	0.0051 *
Mercury	18342-08-08 22:04 G	8420557.26	8420557.42	8420557.57	0.0089	0.0012
Mercury	18342-11-05 00:14 G	8420645.35	8420645.51	8420645.67	0.0089	0.0003
Mercury	18343-02-01 02:24 G	8420733.44	8420733.60	8420733.76	0.0089	0.0005
Mercury	18343-04-30 04:33 G	8420821.54	8420821.69	8420821.85	0.0089	0.0013
Earth	18343-05-18 06:43 G	8420839.58	8420839.78	8420840.01	0.0089	0.0049
Moon	18343-05-18 08:38 G	8420839.64	8420839.86	8420840.10	0.0089	0.0045 *
Mercury	18343-07-27 06:43 G	8420909.63	8420909.78	8420909.94	0.0089	0.0022
Mercury	18343-10-23 08:52 G	8420997.73	8420997.87	8420998.03	0.0089	0.0030
Mercury	18344-01-19 11:16 G	8421085.83	8421085.97	8421086.11	0.0089	0.0037
Mercury	18344-04-16 13:26 G	8421173.93	8421174.06	8421174.20	0.0089	0.0045
Moon	18344-05-19 19:26 G	8421207.12	8421207.31	8421207.53	0.0089	0.0051
Earth	18344-05-19 20:09 G	8421207.13	8421207.34	8421207.57	0.0089	0.0047 *
Mercury	18344-07-13 15:36 G	8421262.03	8421262.15	8421262.28	0.0089	0.0053
Mercury	18344-10-09 17:31 G	8421350.13	8421350.23	8421350.36	0.0089	0.0062
Mercury	18345-01-05 19:40 G	8421438.24	8421438.32	8421438.43	0.0089	0.0070
Mercury	18345-04-03 21:50 G	8421526.35	8421526.41	8421526.50	0.0089	0.0077
Moon	18345-05-22 09:07 G	8421574.66	8421574.88	8421575.13	0.0089	0.0042
Earth	18345-05-22 09:21 G	8421574.68	8421574.89	8421575.13	0.0089	0.0046 *
Mercury	18345-07-01 00:00 G	8421614.47	8421614.50	8421614.56	0.0089	0.0085
Jupiter	18345-10-02 13:40 G	8421707.85	8421708.07	8421708.40	0.0089	0.0077

Earth	18346-05-24 22:48 G	8421942.23	8421942.45	8421942.68	0.0089	0.0044
Moon	18346-05-25 00:14 G	8421942.32	8421942.51	8421942.75	0.0089	0.0049 *
Moon	18347-05-27 09:36 G	8422309.66	8422309.90	8422310.15	0.0089	0.0038
Earth	18347-05-27 12:14 G	8422309.79	8422310.01	8422310.24	0.0089	0.0042 *
Earth	18348-05-29 01:26 G	8422677.33	8422677.56	8422677.80	0.0089	0.0040
Moon	18348-05-29 04:19 G	8422677.47	8422677.68	8422677.92	0.0089	0.0044 *
Moon	18349-05-31 10:48 G	8423044.72	8423044.95	8423045.20	0.0089	0.0034
Earth	18349-05-31 14:52 G	8423044.88	8423045.12	8423045.35	0.0089	0.0038 *
Earth	18350-06-03 03:36 G	8423412.42	8423412.65	8423412.90	0.0089	0.0036
Moon	18350-06-03 06:43 G	8423412.57	8423412.78	8423413.04	0.0089	0.0040 *
Moon	18351-06-05 13:40 G	8423779.84	8423780.07	8423780.32	0.0089	0.0031
Earth	18351-06-05 17:02 G	8423779.97	8423780.21	8423780.45	0.0089	0.0034 *
Earth	18352-06-07 06:00 G	8424147.52	8424147.75	8424148.00	0.0089	0.0032
Moon	18352-06-07 07:40 G	8424147.60	8424147.82	8424148.09	0.0089	0.0036 *
Moon	18353-06-09 18:00 G	8424515.02	8424515.25	8424515.49	0.0089	0.0027
Earth	18353-06-09 18:57 G	8424515.06	8424515.29	8424515.54	0.0089	0.0030 *
Earth	18354-06-12 07:55 G	8424882.60	8424882.83	8424883.09	0.0089	0.0028
Moon	18354-06-12 08:24 G	8424882.60	8424882.85	8424883.11	0.0089	0.0030 *
Earth	18355-06-14 21:21 G	8425250.14	8425250.39	8425250.64	0.0089	0.0025
Moon	18355-06-14 23:02 G	8425250.21	8425250.46	8425250.70	0.0089	0.0022 *
Moon	18356-06-16 07:55 G	8425617.59	8425617.83	8425618.10	0.0089	0.0026
Earth	18356-06-16 10:19 G	8425617.69	8425617.93	8425618.19	0.0089	0.0023 *
Earth	18357-06-18 23:31 G	8425985.23	8425985.48	8425985.74	0.0089	0.0020
Moon	18357-06-19 02:38 G	8425985.36	8425985.61	8425985.86	0.0089	0.0018 *
Moon	18358-06-21 09:07 G	8426352.63	8426352.88	8426353.14	0.0089	0.0021
Earth	18358-06-21 12:43 G	8426352.78	8426353.03	8426353.29	0.0089	0.0018 *
Earth	18359-06-24 01:55 G	8426720.33	8426720.58	8426720.84	0.0089	0.0016
Moon	18359-06-24 05:31 G	8426720.47	8426720.73	8426720.99	0.0089	0.0014 *
Moon	18360-06-25 12:00 G	8427087.75	8427088.00	8427088.25	0.0090	0.0015
Earth	18360-06-25 15:07 G	8427087.88	8427088.13	8427088.39	0.0090	0.0013 *

Earth	18361-06-28 04:04 G	8427455.42	8427455.67	8427455.93	0.0090	0.0011
Moon	18361-06-28 06:14 G	8427455.50	8427455.76	8427456.03	0.0090	0.0009 *
Moon	18362-06-30 15:36 G	8427822.90	8427823.15	8427823.40	0.0090	0.0009
Earth	18362-06-30 17:02 G	8427822.96	8427823.21	8427823.47	0.0090	0.0008 *
Earth	18363-07-03 06:00 G	8428190.50	8428190.75	8428191.01	0.0090	0.0006
Moon	18363-07-03 06:28 G	8428190.51	8428190.77	8428191.04	0.0090	0.0005 *
Earth	18364-07-04 18:43 G	8428558.03	8428558.28	8428558.54	0.0090	0.0004
Moon	18364-07-04 19:55 G	8428558.09	8428558.33	8428558.58	0.0090	0.0005 *
Moon	18365-07-07 05:45 G	8428925.47	8428925.74	8428926.01	0.0090	0.0001
Earth	18365-07-07 07:40 G	8428925.56	8428925.82	8428926.08	0.0090	0.0001 *
Earth	18366-07-09 20:24 G	8429293.09	8429293.35	8429293.61	0.0090	0.0002
Moon	18366-07-09 23:16 G	8429293.22	8429293.47	8429293.72	0.0090	0.0001 *
Moon	18367-07-12 05:45 G	8429660.48	8429660.74	8429661.00	0.0090	0.0006
Earth	18367-07-12 09:07 G	8429660.63	8429660.88	8429661.14	0.0090	0.0005 *
Earth	18368-07-13 21:50 G	8430028.16	8430028.41	8430028.67	0.0089	0.0007
Moon	18368-07-14 01:26 G	8430028.30	8430028.56	8430028.82	0.0089	0.0006 *
Moon	18369-07-16 07:12 G	8430395.55	8430395.80	8430396.05	0.0089	0.0009
Earth	18369-07-16 10:33 G	8430395.69	8430395.94	8430396.20	0.0089	0.0009 *
Earth	18370-07-18 23:16 G	8430763.22	8430763.47	8430763.73	0.0089	0.0012
Moon	18370-07-19 01:55 G	8430763.32	8430763.58	8430763.84	0.0089	0.0011 *
Moon	18371-07-21 10:19 G	8431130.69	8431130.93	8431131.19	0.0089	0.0014
Earth	18371-07-21 12:14 G	8431130.76	8431131.01	8431131.27	0.0089	0.0014 *
Earth	18372-07-23 00:43 G	8431498.29	8431498.53	8431498.79	0.0089	0.0017
Moon	18372-07-23 01:26 G	8431498.31	8431498.56	8431498.83	0.0089	0.0017 *
Earth	18373-07-25 13:26 G	8431865.81	8431866.06	8431866.32	0.0089	0.0019
Moon	18373-07-25 14:24 G	8431865.86	8431866.10	8431866.35	0.0089	0.0019 *
Moon	18374-07-28 00:14 G	8432233.26	8432233.51	8432233.78	0.0089	0.0021
Earth	18374-07-28 02:09 G	8432233.34	8432233.59	8432233.84	0.0089	0.0021 *
Earth	18375-07-30 14:09 G	8432600.86	8432601.09	8432601.35	0.0089	0.0024
Moon	18375-07-30 17:02 G	8432600.98	8432601.21	8432601.46	0.0089	0.0023 *

Moon	18376-07-31 23:16 G	8432968.23	8432968.47	8432968.73	0.0089	0.0025
Earth	18376-08-01 02:38 G	8432968.38	8432968.61	8432968.87	0.0089	0.0026 *
Earth	18377-08-03 14:52 G	8433335.88	8433336.12	8433336.37	0.0089	0.0028
Moon	18377-08-03 18:14 G	8433336.03	8433336.26	8433336.52	0.0089	0.0027 *
Moon	18378-08-05 23:45 G	8433703.26	8433703.49	8433703.74	0.0089	0.0031
Earth	18378-08-06 03:21 G	8433703.40	8433703.64	8433703.89	0.0089	0.0030 *
Earth	18379-08-08 15:36 G	8434070.91	8434071.15	8434071.40	0.0089	0.0032
Moon	18379-08-08 18:14 G	8434071.02	8434071.26	8434071.51	0.0089	0.0031 *
Moon	18380-08-10 01:40 G	8434438.35	8434438.57	8434438.81	0.0089	0.0036
Earth	18380-08-10 03:50 G	8434438.42	8434438.66	8434438.90	0.0089	0.0034 *
Earth	18381-08-12 16:04 G	8434805.93	8434806.17	8434806.40	0.0089	0.0036
Moon	18381-08-12 16:33 G	8434805.96	8434806.19	8434806.45	0.0089	0.0034 *
Earth	18382-08-15 04:19 G	8435173.45	8435173.68	8435173.91	0.0089	0.0038
Moon	18382-08-15 04:33 G	8435173.49	8435173.69	8435173.93	0.0089	0.0040 *
Moon	18383-08-17 14:24 G	8435540.88	8435541.10	8435541.36	0.0089	0.0039
Earth	18383-08-17 16:19 G	8435540.96	8435541.18	8435541.42	0.0089	0.0040 *
Earth	18384-08-19 04:19 G	8435908.46	8435908.68	8435908.92	0.0089	0.0041
Moon	18384-08-19 06:57 G	8435908.59	8435908.79	8435909.02	0.0089	0.0044 *
Moon	18385-08-21 12:43 G	8436275.82	8436276.03	8436276.28	0.0089	0.0042
Earth	18385-08-21 16:19 G	8436275.97	8436276.18	8436276.42	0.0089	0.0043 *
Earth	18386-08-24 04:33 G	8436643.47	8436643.69	8436643.91	0.0089	0.0045
Moon	18386-08-24 07:40 G	8436643.62	8436643.82	8436644.05	0.0089	0.0048 *
Moon	18387-08-26 12:28 G	8437010.82	8437011.02	8437011.26	0.0089	0.0044
Earth	18387-08-26 16:04 G	8437010.97	8437011.17	8437011.41	0.0089	0.0047 *
Earth	18388-08-28 04:04 G	8437378.45	8437378.67	8437378.88	0.0089	0.0048
Moon	18388-08-28 06:00 G	8437378.56	8437378.75	8437378.99	0.0089	0.0050 *
Moon	18389-08-30 13:26 G	8437745.86	8437746.06	8437746.28	0.0089	0.0047
Earth	18389-08-30 15:21 G	8437745.94	8437746.14	8437746.37	0.0089	0.0049 *
Mars	18390-08-16 08:24 G	8438096.61	8438096.85	8438097.12	0.0089	0.0047
Earth	18390-09-02 03:07 G	8438113.43	8438113.63	8438113.85	0.0089	0.0050

Moon	18390-09-02 03:36 G	8438113.46	8438113.65	8438113.88	0.0089	0.0053 *
Earth	18391-09-04 14:09 G	8438480.91	8438481.09	8438481.33	0.0089	0.0052
Moon	18391-09-04 15:07 G	8438480.94	8438481.13	8438481.35	0.0089	0.0050 *
Mars	18392-07-10 16:33 G	8438790.93	8438791.19	8438791.49	0.0089	0.0035
Moon	18392-09-06 00:43 G	8438848.33	8438848.53	8438848.74	0.0089	0.0055
Earth	18392-09-06 01:55 G	8438848.39	8438848.58	8438848.80	0.0089	0.0053 *
Earth	18393-09-08 13:12 G	8439215.87	8439216.05	8439216.27	0.0089	0.0054
Moon	18393-09-08 16:19 G	8439215.98	8439216.18	8439216.39	0.0089	0.0051 *
Moon	18394-09-10 21:36 G	8439583.21	8439583.40	8439583.61	0.0089	0.0057
Earth	18394-09-11 00:43 G	8439583.35	8439583.53	8439583.75	0.0089	0.0055 *
Earth	18395-09-13 12:14 G	8439950.83	8439951.01	8439951.23	0.0089	0.0056
Moon	18395-09-13 16:04 G	8439950.97	8439951.17	8439951.38	0.0089	0.0052 *
Moon	18396-09-14 20:09 G	8440318.17	8440318.34	8440318.54	0.0089	0.0060
Earth	18396-09-14 23:31 G	8440318.31	8440318.48	8440318.70	0.0089	0.0057 *
Earth	18397-09-17 10:48 G	8440685.78	8440685.95	8440686.17	0.0089	0.0058
Moon	18397-09-17 13:55 G	8440685.88	8440686.08	8440686.29	0.0089	0.0054 *
Moon	18398-09-19 20:09 G	8441053.19	8441053.34	8441053.54	0.0089	0.0062
Earth	18398-09-19 22:33 G	8441053.26	8441053.44	8441053.64	0.0089	0.0058 *
Earth	18399-09-22 09:21 G	8441420.72	8441420.89	8441421.10	0.0089	0.0059
Moon	18399-09-22 10:04 G	8441420.73	8441420.92	8441421.14	0.0089	0.0055 *
Earth	18400-09-23 20:38 G	8441788.18	8441788.36	8441788.56	0.0089	0.0059
Moon	18400-09-23 21:36 G	8441788.23	8441788.40	8441788.58	0.0089	0.0062 *
Moon	18401-09-26 06:00 G	8442155.56	8442155.75	8442155.97	0.0089	0.0056
Earth	18401-09-26 07:26 G	8442155.64	8442155.81	8442156.02	0.0089	0.0060 *
Earth	18402-09-28 18:14 G	8442523.09	8442523.26	8442523.47	0.0089	0.0060
Moon	18402-09-28 21:07 G	8442523.23	8442523.38	8442523.58	0.0089	0.0064 *
Moon	18403-10-01 02:09 G	8442890.40	8442890.59	8442890.79	0.0089	0.0057
Earth	18403-10-01 05:31 G	8442890.55	8442890.73	8442890.93	0.0089	0.0060 *
Earth	18404-10-02 16:19 G	8443258.00	8443258.18	8443258.37	0.0089	0.0060
Moon	18404-10-02 19:26 G	8443258.16	8443258.31	8443258.51	0.0089	0.0065 *



Moon	18405-10-04 23:31 G	8443625.31	8443625.48	8443625.70	0.0089	0.0057
Earth	18405-10-05 02:38 G	8443625.45	8443625.61	8443625.83	0.0089	0.0061 *
Earth	18406-10-07 13:26 G	8443992.90	8443993.06	8443993.28	0.0089	0.0061
Moon	18406-10-07 16:04 G	8443993.01	8443993.17	8443993.37	0.0089	0.0064 *
Moon	18407-10-09 22:33 G	8444360.27	8444360.44	8444360.66	0.0089	0.0057
Earth	18407-10-10 00:14 G	8444360.35	8444360.51	8444360.73	0.0089	0.0061 *
Earth	18408-10-11 11:31 G	8444727.80	8444727.98	8444728.18	0.0088	0.0060
Moon	18408-10-11 11:31 G	8444727.81	8444727.98	8444728.18	0.0088	0.0064 *
Earth	18409-10-13 22:04 G	8445095.25	8445095.42	8445095.63	0.0088	0.0060
Moon	18409-10-13 23:16 G	8445095.30	8445095.47	8445095.68	0.0088	0.0057 *
Moon	18410-10-16 07:12 G	8445462.63	8445462.80	8445462.99	0.0088	0.0063
Earth	18410-10-16 08:38 G	8445462.70	8445462.86	8445463.08	0.0088	0.0060 *
Earth	18411-10-18 19:40 G	8445830.14	8445830.32	8445830.52	0.0088	0.0059
Moon	18411-10-18 22:48 G	8445830.27	8445830.45	8445830.66	0.0088	0.0055 *
Moon	18412-10-20 02:52 G	8446197.45	8446197.62	8446197.81	0.0088	0.0062
Earth	18412-10-20 06:00 G	8446197.58	8446197.75	8446197.97	0.0088	0.0058 *
Earth	18413-10-22 16:33 G	8446565.02	8446565.19	8446565.40	0.0088	0.0058
Moon	18413-10-22 20:09 G	8446565.16	8446565.34	8446565.57	0.0088	0.0053 *
Moon	18414-10-25 00:28 G	8446932.34	8446932.52	8446932.70	0.0088	0.0061
Earth	18414-10-25 03:21 G	8446932.46	8446932.64	8446932.85	0.0088	0.0057 *
Venus	18415-01-04 04:04 G	8447003.58	8447003.67	8447003.79	0.0088	0.0077
Venus	18415-08-17 16:48 G	8447229.06	8447229.20	8447229.39	0.0088	0.0058
Earth	18415-10-27 13:55 G	8447299.88	8447300.08	8447300.28	0.0088	0.0056
Moon	18415-10-27 16:04 G	8447299.96	8447300.17	8447300.38	0.0088	0.0052 *
Venus	18416-03-30 06:00 G	8447454.56	8447454.75	8447454.96	0.0088	0.0037
Moon	18416-10-28 22:33 G	8447667.27	8447667.44	8447667.64	0.0088	0.0059
Earth	18416-10-28 23:45 G	8447667.32	8447667.49	8447667.72	0.0088	0.0056 *
Venus	18416-11-10 18:43 G	8447680.07	8447680.28	8447680.50	0.0088	0.0018
Venus	18417-06-24 07:40 G	8447905.60	8447905.82	8447906.04	0.0088	0.0002
Moon	18417-10-31 10:33 G	8448034.73	8448034.94	8448035.16	0.0088	0.0050

Earth	18417-10-31 10:19 G	8448034.75	8448034.93	8448035.16	0.0088	0.0055 *
Venus	18418-02-04 20:24 G	8448131.14	8448131.35	8448131.56	0.0088	0.0022
Venus	18418-09-18 08:52 G	8448356.69	8448356.87	8448357.08	0.0088	0.0042
Earth	18418-11-02 20:38 G	8448402.18	8448402.36	8448402.59	0.0088	0.0053
Moon	18418-11-02 22:33 G	8448402.25	8448402.44	8448402.63	0.0088	0.0057 *
Venus	18419-05-01 21:21 G	8448582.26	8448582.39	8448582.58	0.0088	0.0062
Moon	18419-11-05 05:02 G	8448769.50	8448769.71	8448769.95	0.0088	0.0048
Earth	18419-11-05 06:57 G	8448769.61	8448769.79	8448770.03	0.0088	0.0053 *
Venus	18419-12-13 10:19 G	8448807.86	8448807.93	8448808.04	0.0088	0.0081
Earth	18420-11-06 17:45 G	8449137.04	8449137.24	8449137.46	0.0088	0.0050
Moon	18420-11-06 20:52 G	8449137.19	8449137.37	8449137.59	0.0088	0.0055 *
Moon	18421-11-09 00:43 G	8449504.33	8449504.53	8449504.76	0.0088	0.0045
Earth	18421-11-09 04:04 G	8449504.48	8449504.67	8449504.90	0.0088	0.0050 *
Mercury	18421-12-05 03:50 G	8449530.62	8449530.66	8449530.72	0.0088	0.0083
Mercury	18422-03-03 05:45 G	8449618.68	8449618.74	8449618.83	0.0088	0.0075
Mercury	18422-05-30 07:55 G	8449706.74	8449706.83	8449706.93	0.0088	0.0067
Mercury	18422-08-26 09:50 G	8449794.81	8449794.91	8449795.03	0.0088	0.0060
Earth	18422-11-11 14:24 G	8449871.91	8449872.10	8449872.34	0.0088	0.0048
Moon	18422-11-11 18:14 G	8449872.06	8449872.26	8449872.48	0.0088	0.0052 *
Mercury	18422-11-22 12:00 G	8449882.88	8449883.00	8449883.12	0.0088	0.0052
Mercury	18423-02-18 13:40 G	8449970.95	8449971.07	8449971.21	0.0088	0.0045
Mercury	18423-05-17 15:50 G	8450059.02	8450059.16	8450059.30	0.0088	0.0037
Mercury	18423-08-13 17:45 G	8450147.10	8450147.24	8450147.39	0.0088	0.0030
Mercury	18423-11-09 19:55 G	8450235.18	8450235.33	8450235.48	0.0088	0.0022
Moon	18423-11-13 22:04 G	8450239.21	8450239.42	8450239.66	0.0088	0.0042
Earth	18423-11-14 01:12 G	8450239.34	8450239.55	8450239.77	0.0088	0.0046 *
Mercury	18424-02-05 21:50 G	8450323.26	8450323.41	8450323.57	0.0088	0.0015
Mercury	18424-05-04 00:00 G	8450411.34	8450411.50	8450411.65	0.0088	0.0007
Mercury	18424-07-31 01:55 G	8450499.43	8450499.58	8450499.74	0.0088	0.0003
Mercury	18424-10-27 04:04 G	8450587.51	8450587.67	8450587.83	0.0088	0.0008

Earth	18424-11-15 11:02 G	8450606.76	8450606.96	8450607.20	0.0088	0.0046
Moon	18424-11-15 12:57 G	8450606.84	8450607.04	8450607.28	0.0088	0.0049 *
Mercury	18425-01-23 06:00 G	8450675.60	8450675.75	8450675.91	0.0088	0.0016
Mercury	18425-04-21 08:09 G	8450763.69	8450763.84	8450763.99	0.0088	0.0024
Mercury	18425-07-18 10:04 G	8450851.78	8450851.92	8450852.07	0.0088	0.0032
Mercury	18425-10-14 12:00 G	8450939.87	8450940.00	8450940.15	0.0088	0.0040
Moon	18425-11-17 20:38 G	8450974.15	8450974.36	8450974.59	0.0088	0.0039
Earth	18425-11-17 21:50 G	8450974.19	8450974.41	8450974.64	0.0088	0.0043 *
Mercury	18426-01-10 14:24 G	8451027.97	8451028.10	8451028.23	0.0088	0.0047
Mercury	18426-04-08 16:19 G	8451116.07	8451116.18	8451116.31	0.0088	0.0055
Mercury	18426-07-05 18:28 G	8451204.17	8451204.27	8451204.38	0.0088	0.0063
Mercury	18426-10-01 20:24 G	8451292.27	8451292.35	8451292.46	0.0088	0.0071
Moon	18426-11-20 06:57 G	8451341.58	8451341.79	8451342.03	0.0088	0.0046
Earth	18426-11-20 07:40 G	8451341.61	8451341.82	8451342.06	0.0088	0.0042 *
Mercury	18426-12-28 22:33 G	8451380.38	8451380.44	8451380.52	0.0088	0.0079
Mercury	18427-03-27 00:28 G	8451468.52	8451468.52	8451468.56	0.0088	0.0088
Earth	18427-11-22 18:00 G	8451709.03	8451709.25	8451709.49	0.0088	0.0040
Moon	18427-11-22 19:55 G	8451709.11	8451709.33	8451709.56	0.0088	0.0036 *
Moon	18428-11-24 01:26 G	8452076.35	8452076.56	8452076.81	0.0088	0.0043
Earth	18428-11-24 04:19 G	8452076.46	8452076.68	8452076.92	0.0088	0.0038 *
Earth	18429-11-26 14:09 G	8452443.88	8452444.09	8452444.34	0.0088	0.0037
Moon	18429-11-26 18:00 G	8452444.02	8452444.25	8452444.49	0.0088	0.0032 *
Moon	18430-11-28 21:07 G	8452811.17	8452811.38	8452811.62	0.0088	0.0039
Earth	18430-11-29 00:28 G	8452811.30	8452811.52	8452811.77	0.0088	0.0035 *
Earth	18431-12-01 10:48 G	8453178.72	8453178.95	8453179.19	0.0088	0.0033
Moon	18431-12-01 14:24 G	8453178.86	8453179.10	8453179.35	0.0088	0.0028 *
Moon	18432-12-02 18:28 G	8453546.05	8453546.27	8453546.51	0.0088	0.0036
Earth	18432-12-02 21:07 G	8453546.15	8453546.38	8453546.63	0.0088	0.0031 *
Earth	18433-12-05 07:26 G	8453913.57	8453913.81	8453914.06	0.0088	0.0029
Moon	18433-12-05 08:52 G	8453913.62	8453913.87	8453914.13	0.0088	0.0025 *

Moon	18434-12-07 16:48 G	8454280.99	8454281.20	8454281.45	0.0088	0.0032
Earth	18434-12-07 17:45 G	8454281.00	8454281.24	8454281.49	0.0088	0.0027 *
Moon	18435-12-10 02:38 G	8454648.37	8454648.61	8454648.88	0.0088	0.0021
Earth	18435-12-10 04:04 G	8454648.43	8454648.67	8454648.92	0.0088	0.0025 *
Earth	18436-12-11 14:24 G	8455015.86	8455016.10	8455016.35	0.0088	0.0023
Moon	18436-12-11 16:33 G	8455015.96	8455016.19	8455016.43	0.0088	0.0027 *
Moon	18437-12-13 21:36 G	8455383.16	8455383.40	8455383.67	0.0088	0.0017
Earth	18437-12-14 00:43 G	8455383.28	8455383.53	8455383.78	0.0088	0.0021 *
Earth	18438-12-16 10:48 G	8455750.71	8455750.95	8455751.21	0.0088	0.0019
Moon	18438-12-16 14:24 G	8455750.86	8455751.10	8455751.36	0.0088	0.0024 *
Moon	18439-12-18 17:45 G	8456117.99	8456118.24	8456118.50	0.0088	0.0013
Earth	18439-12-18 21:07 G	8456118.13	8456118.38	8456118.64	0.0088	0.0017 *
Earth	18440-12-20 07:12 G	8456485.56	8456485.80	8456486.07	0.0088	0.0015
Moon	18440-12-20 10:48 G	8456485.70	8456485.95	8456486.21	0.0088	0.0019 *
Moon	18441-12-22 15:36 G	8456852.91	8456853.15	8456853.41	0.0088	0.0008
Earth	18441-12-22 17:45 G	8456852.99	8456853.24	8456853.50	0.0088	0.0013 *
Earth	18442-12-25 04:04 G	8457220.41	8457220.67	8457220.92	0.0088	0.0010
Moon	18442-12-25 04:48 G	8457220.45	8457220.70	8457220.98	0.0088	0.0015 *
Moon	18443-12-27 14:09 G	8457587.84	8457588.09	8457588.34	0.0088	0.0004
Earth	18443-12-27 14:24 G	8457587.84	8457588.10	8457588.36	0.0088	0.0008 *
Moon	18444-12-28 23:02 G	8457955.20	8457955.46	8457955.73	0.0088	0.0011
Earth	18444-12-29 00:43 G	8457955.28	8457955.53	8457955.79	0.0088	0.0006 *
Earth	18445-12-31 11:16 G	8458322.71	8458322.97	8458323.23	0.0088	0.0004
Moon	18445-12-31 13:40 G	8458322.82	8458323.07	8458323.32	0.0088	0.0001 *
Moon	18447-01-02 18:43 G	8458690.02	8458690.28	8458690.54	0.0088	0.0006
Earth	18447-01-02 21:50 G	8458690.15	8458690.41	8458690.67	0.0088	0.0001 *
Earth	18448-01-05 08:24 G	8459057.59	8459057.85	8459058.11	0.0088	0.0001
Moon	18448-01-05 12:00 G	8459057.75	8459058.00	8459058.26	0.0088	0.0006 *
Moon	18449-01-06 15:50 G	8459424.91	8459425.16	8459425.42	0.0088	0.0001
Earth	18449-01-06 18:57 G	8459425.04	8459425.29	8459425.55	0.0088	0.0004 *

Earth	18450-01-09 05:31 G	8459792.48	8459792.73	8459792.99	0.0088	0.0006
Moon	18450-01-09 08:52 G	8459792.61	8459792.87	8459793.13	0.0088	0.0010 *
Moon	18451-01-11 14:24 G	8460159.85	8460160.10	8460160.35	0.0088	0.0003
Earth	18451-01-11 16:04 G	8460159.92	8460160.17	8460160.44	0.0088	0.0008 *
Earth	18452-01-14 02:52 G	8460527.37	8460527.62	8460527.88	0.0088	0.0010
Moon	18452-01-14 03:36 G	8460527.39	8460527.65	8460527.92	0.0088	0.0014 *
Earth	18453-01-15 13:26 G	8460894.81	8460895.06	8460895.32	0.0088	0.0012
Moon	18453-01-15 13:40 G	8460894.83	8460895.07	8460895.32	0.0088	0.0008 *
Moon	18454-01-17 22:04 G	8461262.17	8461262.42	8461262.69	0.0088	0.0019
Earth	18454-01-18 00:14 G	8461262.26	8461262.51	8461262.77	0.0088	0.0014 *
Earth	18455-01-20 11:02 G	8461629.70	8461629.96	8461630.21	0.0088	0.0016
Moon	18455-01-20 13:26 G	8461629.82	8461630.06	8461630.32	0.0088	0.0012 *
Moon	18456-01-22 18:14 G	8461997.02	8461997.26	8461997.52	0.0088	0.0023
Earth	18456-01-22 21:36 G	8461997.16	8461997.40	8461997.66	0.0088	0.0019 *
Earth	18457-01-24 08:09 G	8462364.61	8462364.84	8462365.11	0.0088	0.0021
Moon	18457-01-24 12:00 G	8462364.76	8462365.00	8462365.27	0.0088	0.0016 *
Moon	18458-01-26 16:04 G	8462731.94	8462732.17	8462732.42	0.0088	0.0027
Earth	18458-01-26 19:12 G	8462732.07	8462732.30	8462732.56	0.0088	0.0023 *
Earth	18459-01-29 06:00 G	8463099.52	8463099.75	8463100.01	0.0088	0.0025
Moon	18459-01-29 09:07 G	8463099.64	8463099.88	8463100.15	0.0088	0.0021 *
Moon	18460-01-31 15:50 G	8463466.94	8463467.16	8463467.40	0.0088	0.0031
Earth	18460-01-31 17:16 G	8463466.99	8463467.22	8463467.48	0.0088	0.0027 *
Earth	18461-02-02 04:19 G	8463834.45	8463834.68	8463834.94	0.0088	0.0029
Moon	18461-02-02 05:02 G	8463834.46	8463834.71	8463834.98	0.0088	0.0025 *
Earth	18462-02-04 15:21 G	8464201.92	8464202.14	8464202.40	0.0088	0.0031
Moon	18462-02-04 15:50 G	8464201.95	8464202.16	8464202.41	0.0088	0.0035 *
Moon	18463-02-07 00:28 G	8464569.28	8464569.52	8464569.79	0.0088	0.0028
Earth	18463-02-07 02:38 G	8464569.39	8464569.61	8464569.87	0.0088	0.0033 *
Earth	18464-02-09 13:55 G	8464936.85	8464937.08	8464937.33	0.0088	0.0035
Moon	18464-02-09 16:48 G	8464936.98	8464937.20	8464937.43	0.0088	0.0039 *

Moon	18465-02-10 21:36 G	8465304.17	8465304.40	8465304.66	0.0088	0.0032
Earth	18465-02-11 01:12 G	8465304.33	8465304.55	8465304.80	0.0088	0.0036 *
Earth	18466-02-13 12:14 G	8465671.79	8465672.01	8465672.26	0.0088	0.0038
Moon	18466-02-13 16:04 G	8465671.95	8465672.17	8465672.41	0.0088	0.0042 *
Moon	18467-02-15 20:38 G	8466039.13	8466039.36	8466039.60	0.0088	0.0036
Earth	18467-02-15 23:45 G	8466039.27	8466039.49	8466039.73	0.0088	0.0040 *
Earth	18468-02-18 10:48 G	8466406.74	8466406.95	8466407.20	0.0088	0.0041
Moon	18468-02-18 13:40 G	8466406.86	8466407.07	8466407.32	0.0088	0.0045 *
Moon	18469-02-19 21:21 G	8466774.16	8466774.39	8466774.61	0.0088	0.0039
Earth	18469-02-19 22:04 G	8466774.22	8466774.42	8466774.67	0.0088	0.0044 *
Earth	18470-02-22 09:36 G	8467141.69	8467141.90	8467142.14	0.0088	0.0045
Moon	18470-02-22 10:19 G	8467141.71	8467141.93	8467142.16	0.0088	0.0048 *
Earth	18471-02-24 21:36 G	8467509.18	8467509.40	8467509.62	0.0088	0.0046
Moon	18471-02-24 21:50 G	8467509.21	8467509.41	8467509.64	0.0088	0.0042 *
Moon	18472-02-27 06:28 G	8467876.58	8467876.77	8467877.01	0.0088	0.0052
Earth	18472-02-27 08:52 G	8467876.67	8467876.87	8467877.11	0.0088	0.0047 *
Earth	18473-02-28 20:38 G	8468244.16	8468244.36	8468244.59	0.0088	0.0049
Moon	18473-02-28 23:16 G	8468244.27	8468244.47	8468244.71	0.0088	0.0045 *
Moon	18474-03-03 05:02 G	8468611.52	8468611.71	8468611.93	0.0088	0.0054
Earth	18474-03-03 08:38 G	8468611.66	8468611.86	8468612.09	0.0088	0.0050 *
Mars	18474-06-12 12:14 G	8468712.70	8468713.01	8468713.34	0.0088	0.0015
Earth	18475-03-05 20:09 G	8468979.15	8468979.34	8468979.57	0.0088	0.0051
Moon	18475-03-06 00:14 G	8468979.29	8468979.51	8468979.73	0.0088	0.0047 *
Moon	18476-03-07 05:02 G	8469346.53	8469346.71	8469346.93	0.0088	0.0056
Earth	18476-03-07 08:38 G	8469346.65	8469346.86	8469347.07	0.0088	0.0052 *
Mars	18476-05-07 17:31 G	8469408.05	8469408.23	8469408.44	0.0088	0.0070
Earth	18477-03-09 19:55 G	8469714.15	8469714.33	8469714.56	0.0088	0.0054
Moon	18477-03-09 23:16 G	8469714.26	8469714.47	8469714.70	0.0088	0.0050 *
Moon	18478-03-12 06:43 G	8470081.60	8470081.78	8470081.98	0.0088	0.0058
Earth	18478-03-12 08:09 G	8470081.64	8470081.84	8470082.05	0.0088	0.0054 *

Earth	18479-03-14 20:09 G	8470449.15	8470449.34	8470449.55	0.0088	0.0055
Moon	18479-03-14 20:38 G	8470449.15	8470449.36	8470449.59	0.0088	0.0052 *
Earth	18480-03-16 07:55 G	8470816.65	8470816.83	8470817.05	0.0088	0.0056
Moon	18480-03-16 08:52 G	8470816.69	8470816.87	8470817.06	0.0088	0.0059 *
Moon	18481-03-18 17:45 G	8471184.04	8471184.24	8471184.47	0.0089	0.0053
Earth	18481-03-18 19:55 G	8471184.15	8471184.33	8471184.55	0.0089	0.0057 *
Earth	18482-03-21 08:24 G	8471551.66	8471551.85	8471552.05	0.0089	0.0057
Moon	18482-03-21 11:02 G	8471551.78	8471551.96	8471552.15	0.0089	0.0060 *
Moon	18483-03-23 16:48 G	8471919.01	8471919.20	8471919.42	0.0089	0.0055
Earth	18483-03-23 20:24 G	8471919.17	8471919.35	8471919.56	0.0089	0.0058 *
Earth	18484-03-25 08:52 G	8472286.68	8472286.87	8472287.07	0.0089	0.0058
Moon	18484-03-25 12:43 G	8472286.84	8472287.03	8472287.22	0.0089	0.0061 *
Moon	18485-03-27 18:00 G	8472654.07	8472654.25	8472654.46	0.0089	0.0056
Earth	18485-03-27 20:52 G	8472654.20	8472654.37	8472654.59	0.0089	0.0059 *
Earth	18486-03-30 09:21 G	8473021.72	8473021.89	8473022.11	0.0089	0.0059
Moon	18486-03-30 12:28 G	8473021.85	8473022.02	8473022.23	0.0089	0.0061 *
Moon	18487-04-01 20:38 G	8473389.19	8473389.36	8473389.58	0.0089	0.0057
Earth	18487-04-01 22:19 G	8473389.25	8473389.43	8473389.64	0.0089	0.0059 *
Earth	18488-04-03 10:48 G	8473756.78	8473756.95	8473757.16	0.0089	0.0059
Moon	18488-04-03 11:31 G	8473756.81	8473756.98	8473757.20	0.0089	0.0061 *
Earth	18489-04-05 23:16 G	8474124.30	8474124.47	8474124.68	0.0089	0.0059
Moon	18489-04-06 00:00 G	8474124.32	8474124.50	8474124.70	0.0089	0.0057 *
Moon	18490-04-08 10:04 G	8474491.73	8474491.92	8474492.12	0.0089	0.0061
Earth	18490-04-08 12:00 G	8474491.82	8474492.00	8474492.21	0.0089	0.0059 *
Earth	18491-04-11 00:28 G	8474859.35	8474859.52	8474859.74	0.0089	0.0059
Moon	18491-04-11 03:07 G	8474859.45	8474859.63	8474859.84	0.0089	0.0057 *
Moon	18492-04-12 09:50 G	8475226.73	8475226.91	8475227.12	0.0089	0.0060
Earth	18492-04-12 13:26 G	8475226.88	8475227.06	8475227.27	0.0089	0.0058 *
Earth	18493-04-15 01:55 G	8475594.40	8475594.58	8475594.79	0.0089	0.0058
Moon	18493-04-15 05:31 G	8475594.55	8475594.73	8475594.95	0.0089	0.0056 *

Moon	18494-04-17 11:31 G	8475961.79	8475961.98	8475962.18	0.0089	0.0058
Earth	18494-04-17 14:24 G	8475961.93	8475962.10	8475962.32	0.0089	0.0058 *
Earth	18495-04-20 03:21 G	8476329.46	8476329.64	8476329.86	0.0089	0.0057
Moon	18495-04-20 06:28 G	8476329.58	8476329.77	8476329.99	0.0089	0.0056 *
Moon	18496-04-21 14:38 G	8476696.94	8476697.11	8476697.32	0.0089	0.0058
Earth	18496-04-21 16:33 G	8476697.00	8476697.19	8476697.40	0.0089	0.0056 *
Earth	18497-04-24 04:48 G	8477064.52	8477064.70	8477064.93	0.0089	0.0056
Moon	18497-04-24 06:14 G	8477064.56	8477064.76	8477064.98	0.0089	0.0055 *
Earth	18498-04-26 18:00 G	8477432.07	8477432.25	8477432.47	0.0089	0.0055
Moon	18498-04-26 18:43 G	8477432.09	8477432.28	8477432.48	0.0089	0.0055 *
Venus	18498-05-15 18:43 G	8477451.16	8477451.28	8477451.43	0.0089	0.0070
Venus	18498-12-27 07:55 G	8477676.66	8477676.83	8477677.02	0.0089	0.0050
Moon	18499-04-29 05:02 G	8477799.52	8477799.71	8477799.95	0.0089	0.0053
Earth	18499-04-29 07:12 G	8477799.61	8477799.80	8477800.02	0.0089	0.0054 *
Venus	18499-08-09 21:07 G	8477902.19	8477902.38	8477902.60	0.0089	0.0030
Venus	18500-03-23 10:48 G	8478127.73	8478127.95	8478128.17	0.0089	0.0009
Earth	18500-05-01 20:09 G	8478167.15	8478167.34	8478167.57	0.0089	0.0053
Moon	18500-05-01 22:19 G	8478167.25	8478167.43	8478167.66	0.0089	0.0054 *
Venus	18500-11-03 23:45 G	8478353.28	8478353.49	8478353.72	0.0089	0.0012
Moon	18501-05-04 05:45 G	8478534.55	8478534.74	8478534.97	0.0089	0.0052
Earth	18501-05-04 09:07 G	8478534.69	8478534.88	8478535.12	0.0089	0.0053 *
Venus	18501-06-17 12:57 G	8478578.84	8478579.04	8478579.26	0.0089	0.0031
Venus	18502-01-29 02:24 G	8478804.42	8478804.60	8478804.78	0.0089	0.0051
Earth	18502-05-06 22:04 G	8478902.23	8478902.42	8478902.66	0.0089	0.0051
Moon	18502-05-07 01:40 G	8478902.38	8478902.57	8478902.80	0.0089	0.0052 *
Venus	18502-09-11 15:07 G	8479030.02	8479030.13	8479030.28	0.0089	0.0072
Moon	18503-05-09 07:55 G	8479269.63	8479269.83	8479270.06	0.0089	0.0051
Earth	18503-05-09 11:45 G	8479269.78	8479269.99	8479270.21	0.0089	0.0050 *
Earth	18504-05-11 00:28 G	8479637.31	8479637.52	8479637.75	0.0089	0.0048
Moon	18504-05-11 03:50 G	8479637.45	8479637.66	8479637.89	0.0089	0.0048 *



Mercury	18505-03-05 00:28 G	8479935.47	8479935.52	8479935.59	0.0089	0.0083
Moon	18505-05-13 11:31 G	8480004.78	8480004.98	8480005.20	0.0089	0.0048
Earth	18505-05-13 13:12 G	8480004.85	8480005.05	8480005.29	0.0089	0.0048 *
Mercury	18505-06-01 02:38 G	8480023.54	8480023.61	8480023.72	0.0089	0.0075
Mercury	18505-08-28 05:16 G	8480111.62	8480111.72	8480111.83	0.0089	0.0066
Mercury	18505-11-24 07:26 G	8480199.70	8480199.81	8480199.95	0.0089	0.0058
Mercury	18506-02-20 09:50 G	8480287.78	8480287.91	8480288.05	0.0089	0.0049
Earth	18506-05-16 02:38 G	8480372.39	8480372.61	8480372.84	0.0089	0.0046
Moon	18506-05-16 03:50 G	8480372.44	8480372.66	8480372.91	0.0089	0.0044 *
Mercury	18506-05-19 12:14 G	8480375.87	8480376.01	8480376.16	0.0089	0.0041
Mercury	18506-08-15 14:24 G	8480463.96	8480464.10	8480464.26	0.0089	0.0033
Mercury	18506-11-11 16:48 G	8480552.05	8480552.20	8480552.36	0.0089	0.0024
Mercury	18507-02-07 19:12 G	8480640.14	8480640.30	8480640.46	0.0089	0.0016
Mercury	18507-05-06 21:21 G	8480728.23	8480728.39	8480728.55	0.0089	0.0008
Earth	18507-05-18 15:21 G	8480739.93	8480740.14	8480740.39	0.0089	0.0045
Moon	18507-05-18 15:36 G	8480739.94	8480740.15	8480740.38	0.0089	0.0046 *
Mercury	18507-08-02 23:45 G	8480816.33	8480816.49	8480816.65	0.0089	0.0002
Mercury	18507-10-30 01:55 G	8480904.42	8480904.58	8480904.74	0.0089	0.0009
Mercury	18508-01-26 04:04 G	8480992.52	8480992.67	8480992.83	0.0089	0.0017
Mercury	18508-04-23 06:14 G	8481080.61	8481080.76	8481080.92	0.0089	0.0025
Moon	18508-05-20 02:52 G	8481107.40	8481107.62	8481107.88	0.0089	0.0042
Earth	18508-05-20 04:48 G	8481107.48	8481107.70	8481107.93	0.0089	0.0043 *
Mercury	18508-07-20 08:24 G	8481168.71	8481168.85	8481169.00	0.0089	0.0033
Mercury	18508-10-16 10:33 G	8481256.81	8481256.94	8481257.09	0.0089	0.0042
Mercury	18509-01-12 12:43 G	8481344.91	8481345.03	8481345.17	0.0089	0.0050
Mercury	18509-04-10 14:52 G	8481433.01	8481433.12	8481433.25	0.0089	0.0058
Earth	18509-05-22 17:31 G	8481475.02	8481475.23	8481475.48	0.0089	0.0041
Moon	18509-05-22 19:55 G	8481475.11	8481475.33	8481475.55	0.0089	0.0043 *
Mercury	18509-07-07 17:02 G	8481521.11	8481521.21	8481521.33	0.0089	0.0066
Mercury	18509-10-03 19:12 G	8481609.22	8481609.30	8481609.40	0.0089	0.0073

Mercury	18509-12-30 21:07 G	8481697.34	8481697.38	8481697.46	0.0089	0.0082
Mercury	18510-03-28 23:31 G	8481785.48	8481785.48	8481785.50	0.0089	0.0089
Moon	18510-05-25 03:21 G	8481842.42	8481842.64	8481842.90	0.0089	0.0039
Earth	18510-05-25 06:57 G	8481842.57	8481842.79	8481843.03	0.0089	0.0039 *
Earth	18511-05-27 20:09 G	8482210.12	8482210.34	8482210.59	0.0089	0.0038
Moon	18511-05-27 23:31 G	8482210.27	8482210.48	8482210.73	0.0089	0.0039 *
Jupiter	18511-12-02 09:07 G	8482398.49	8482398.88	8482399.37	0.0089	0.0048
Moon	18512-05-29 06:00 G	8482577.52	8482577.75	8482578.00	0.0089	0.0034
Earth	18512-05-29 09:50 G	8482577.67	8482577.91	8482578.15	0.0089	0.0036 *
Earth	18513-05-31 22:48 G	8482945.21	8482945.45	8482945.69	0.0089	0.0034
Moon	18513-06-01 01:55 G	8482945.36	8482945.58	8482945.84	0.0089	0.0037 *
Moon	18514-06-03 09:36 G	8483312.68	8483312.90	8483313.15	0.0089	0.0030
Earth	18514-06-03 11:45 G	8483312.77	8483312.99	8483313.25	0.0089	0.0033 *
Earth	18515-06-06 00:57 G	8483680.31	8483680.54	8483680.80	0.0089	0.0031
Moon	18515-06-06 03:21 G	8483680.39	8483680.64	8483680.89	0.0089	0.0033 *
Moon	18516-06-07 13:55 G	8484047.85	8484048.08	8484048.33	0.0089	0.0026
Earth	18516-06-07 14:09 G	8484047.86	8484048.09	8484048.35	0.0089	0.0028 *
Moon	18517-06-10 02:09 G	8484415.35	8484415.59	8484415.86	0.0089	0.0029
Earth	18517-06-10 03:36 G	8484415.40	8484415.65	8484415.90	0.0089	0.0026 *
Earth	18518-06-12 16:33 G	8484782.94	8484783.19	8484783.44	0.0089	0.0024
Moon	18518-06-12 18:14 G	8484783.02	8484783.26	8484783.50	0.0089	0.0021 *
Moon	18519-06-15 02:24 G	8485150.36	8485150.60	8485150.87	0.0089	0.0025
Earth	18519-06-15 05:45 G	8485150.49	8485150.74	8485150.99	0.0089	0.0022 *
Earth	18520-06-16 18:43 G	8485518.03	8485518.28	8485518.54	0.0089	0.0020
Moon	18520-06-16 22:04 G	8485518.17	8485518.42	8485518.68	0.0089	0.0017 *
Moon	18521-06-19 04:04 G	8485885.43	8485885.67	8485885.93	0.0089	0.0021
Earth	18521-06-19 07:40 G	8485885.58	8485885.82	8485886.09	0.0089	0.0018 *
Earth	18522-06-21 20:52 G	8486253.12	8486253.37	8486253.63	0.0089	0.0015
Moon	18522-06-22 00:28 G	8486253.26	8486253.52	8486253.78	0.0089	0.0012 *
Moon	18523-06-24 07:40 G	8486620.58	8486620.82	8486621.07	0.0089	0.0016

Earth	18523-06-24 10:19 G	8486620.68	8486620.93	8486621.19	0.0089	0.0013	*
Earth	18524-06-25 23:16 G	8486988.22	8486988.47	8486988.73	0.0089	0.0011	
Moon	18524-06-26 01:40 G	8486988.30	8486988.57	8486988.83	0.0089	0.0007	*
Moon	18525-06-28 11:45 G	8487355.75	8487355.99	8487356.25	0.0089	0.0013	
Earth	18525-06-28 12:28 G	8487355.77	8487356.02	8487356.28	0.0089	0.0009	*
Moon	18526-07-01 01:12 G	8487723.28	8487723.55	8487723.82	0.0089	0.0003	
Earth	18526-07-01 01:40 G	8487723.32	8487723.57	8487723.83	0.0089	0.0006	*
Earth	18527-07-03 14:52 G	8488090.86	8488091.12	8488091.38	0.0089	0.0004	
Moon	18527-07-03 16:04 G	8488090.92	8488091.17	8488091.42	0.0089	0.0008	*
Moon	18528-07-05 00:57 G	8488458.27	8488458.54	8488458.80	0.0090	0.0003	
Earth	18528-07-05 03:50 G	8488458.40	8488458.66	8488458.92	0.0090	0.0002	*
Earth	18529-07-07 16:33 G	8488825.93	8488826.19	8488826.45	0.0090	0.0001	
Moon	18529-07-07 19:40 G	8488826.07	8488826.32	8488826.57	0.0090	0.0003	*
Moon	18530-07-10 01:40 G	8489193.32	8489193.57	8489193.84	0.0090	0.0008	
Earth	18530-07-10 05:31 G	8489193.47	8489193.73	8489193.99	0.0090	0.0003	*
Earth	18531-07-12 18:14 G	8489561.00	8489561.26	8489561.52	0.0090	0.0005	
Moon	18531-07-12 21:50 G	8489561.15	8489561.41	8489561.67	0.0090	0.0001	*
Moon	18532-07-14 04:04 G	8489928.42	8489928.67	8489928.92	0.0089	0.0012	
Earth	18532-07-14 06:43 G	8489928.53	8489928.78	8489929.05	0.0089	0.0008	*
Earth	18533-07-16 19:40 G	8490296.06	8490296.32	8490296.57	0.0089	0.0010	
Moon	18533-07-16 22:04 G	8490296.16	8490296.42	8490296.69	0.0089	0.0005	*
Moon	18534-07-19 07:26 G	8490663.57	8490663.81	8490664.06	0.0089	0.0017	
Earth	18534-07-19 08:24 G	8490663.60	8490663.85	8490664.11	0.0089	0.0012	*
Moon	18535-07-21 20:52 G	8491031.11	8491031.37	8491031.64	0.0089	0.0010	
Earth	18535-07-21 20:52 G	8491031.12	8491031.37	8491031.63	0.0089	0.0015	*
Earth	18536-07-23 09:36 G	8491398.66	8491398.90	8491399.16	0.0089	0.0017	
Moon	18536-07-23 10:33 G	8491398.71	8491398.94	8491399.20	0.0089	0.0021	*
Moon	18537-07-25 19:40 G	8491766.07	8491766.32	8491766.59	0.0089	0.0014	
Earth	18537-07-25 22:19 G	8491766.19	8491766.43	8491766.69	0.0089	0.0019	*
Earth	18538-07-28 11:02 G	8492133.72	8492133.96	8492134.22	0.0089	0.0021	

Moon	18538-07-28 13:55 G	8492133.85	8492134.08	8492134.33	0.0089	0.0025	*
Moon	18539-07-30 20:09 G	8492501.09	8492501.34	8492501.60	0.0089	0.0018	
Earth	18539-07-30 23:45 G	8492501.25	8492501.49	8492501.74	0.0089	0.0023	*
Earth	18540-08-01 12:00 G	8492868.76	8492869.00	8492869.25	0.0089	0.0025	
Moon	18540-08-01 15:21 G	8492868.91	8492869.14	8492869.40	0.0089	0.0030	*
Moon	18541-08-03 21:21 G	8493236.16	8493236.39	8493236.64	0.0089	0.0023	
Earth	18541-08-04 00:28 G	8493236.28	8493236.52	8493236.77	0.0089	0.0027	*
Earth	18542-08-06 12:43 G	8493603.79	8493604.03	8493604.28	0.0089	0.0029	
Moon	18542-08-06 15:07 G	8493603.90	8493604.13	8493604.39	0.0089	0.0034	*
Moon	18543-08-08 23:45 G	8493971.27	8493971.49	8493971.74	0.0089	0.0026	
Earth	18543-08-09 00:43 G	8493971.30	8493971.53	8493971.79	0.0089	0.0031	*
Earth	18544-08-10 12:57 G	8494338.81	8494339.04	8494339.29	0.0089	0.0032	
Moon	18544-08-10 12:57 G	8494338.81	8494339.04	8494339.30	0.0089	0.0037	*
Earth	18545-08-13 00:57 G	8494706.32	8494706.54	8494706.79	0.0089	0.0034	
Moon	18545-08-13 02:09 G	8494706.36	8494706.59	8494706.83	0.0089	0.0030	*
Moon	18546-08-15 10:33 G	8495073.72	8495073.94	8495074.19	0.0089	0.0040	
Earth	18546-08-15 13:26 G	8495073.83	8495074.06	8495074.30	0.0089	0.0036	*
Earth	18547-08-18 01:12 G	8495441.33	8495441.55	8495441.79	0.0089	0.0038	
Moon	18547-08-18 04:04 G	8495441.45	8495441.67	8495441.91	0.0089	0.0033	*
Moon	18548-08-19 09:50 G	8495808.69	8495808.91	8495809.14	0.0089	0.0044	
Earth	18548-08-19 12:57 G	8495808.83	8495809.04	8495809.29	0.0089	0.0040	*
Earth	18549-08-22 01:26 G	8496176.34	8496176.56	8496176.79	0.0089	0.0041	
Moon	18549-08-22 04:33 G	8496176.47	8496176.69	8496176.95	0.0089	0.0037	*
Moon	18550-08-24 10:19 G	8496543.73	8496543.93	8496544.16	0.0089	0.0046	
Earth	18550-08-24 13:12 G	8496543.85	8496544.05	8496544.30	0.0089	0.0043	*
Earth	18551-08-27 01:26 G	8496911.34	8496911.56	8496911.79	0.0089	0.0044	
Moon	18551-08-27 03:50 G	8496911.44	8496911.66	8496911.91	0.0089	0.0039	*
Moon	18552-08-28 12:00 G	8497278.81	8497279.00	8497279.22	0.0089	0.0050	
Earth	18552-08-28 12:57 G	8497278.84	8497279.04	8497279.28	0.0089	0.0045	*
Earth	18553-08-31 00:57 G	8497646.33	8497646.54	8497646.77	0.0089	0.0046	

Moon	18553-08-31 01:12 G	8497646.33	8497646.55	8497646.79	0.0089	0.0042	*
Mars	18554-04-01 08:09 G	8497859.71	8497859.84	8497860.00	0.0089	0.0078	
Earth	18554-09-02 12:28 G	8498013.82	8498014.02	8498014.25	0.0089	0.0048	
Moon	18554-09-02 13:40 G	8498013.87	8498014.07	8498014.28	0.0089	0.0052	*
Moon	18555-09-04 21:36 G	8498381.18	8498381.40	8498381.64	0.0089	0.0044	
Earth	18555-09-05 00:28 G	8498381.31	8498381.52	8498381.73	0.0089	0.0048	*
Mars	18556-02-24 15:50 G	8498553.86	8498554.16	8498554.47	0.0089	0.0003	
Earth	18556-09-06 11:45 G	8498748.78	8498748.99	8498749.21	0.0089	0.0049	
Moon	18556-09-06 14:24 G	8498748.91	8498749.10	8498749.31	0.0089	0.0053	*
Moon	18557-09-08 19:26 G	8499116.11	8499116.31	8499116.55	0.0089	0.0046	
Earth	18557-09-08 23:16 G	8499116.27	8499116.47	8499116.69	0.0089	0.0050	*
Mars	18558-01-19 00:28 G	8499248.45	8499248.52	8499248.65	0.0089	0.0084	
Earth	18558-09-11 10:33 G	8499483.74	8499483.94	8499484.16	0.0089	0.0051	
Moon	18558-09-11 14:24 G	8499483.90	8499484.10	8499484.30	0.0089	0.0055	*
Moon	18559-09-13 18:43 G	8499851.09	8499851.28	8499851.51	0.0089	0.0049	
Earth	18559-09-13 22:04 G	8499851.22	8499851.42	8499851.63	0.0089	0.0052	*
Earth	18560-09-15 09:07 G	8500218.69	8500218.88	8500219.11	0.0089	0.0053	
Moon	18560-09-15 12:14 G	8500218.81	8500219.01	8500219.21	0.0089	0.0056	*
Moon	18561-09-17 19:55 G	8500586.14	8500586.33	8500586.55	0.0089	0.0050	
Earth	18561-09-17 20:38 G	8500586.18	8500586.36	8500586.58	0.0089	0.0054	*
Earth	18562-09-20 08:09 G	8500953.65	8500953.84	8500954.05	0.0089	0.0054	
Moon	18562-09-20 08:24 G	8500953.66	8500953.85	8500954.06	0.0089	0.0057	*
Earth	18563-09-22 19:12 G	8501321.12	8501321.30	8501321.52	0.0089	0.0055	
Moon	18563-09-22 20:38 G	8501321.17	8501321.36	8501321.57	0.0089	0.0051	*
Moon	18564-09-24 03:50 G	8501688.48	8501688.66	8501688.88	0.0089	0.0059	
Earth	18564-09-24 06:28 G	8501688.59	8501688.77	8501688.99	0.0089	0.0055	*
Earth	18565-09-26 18:00 G	8502056.05	8502056.25	8502056.45	0.0089	0.0055	
Moon	18565-09-26 20:38 G	8502056.17	8502056.36	8502056.58	0.0089	0.0052	*
Moon	18566-09-29 01:12 G	8502423.37	8502423.55	8502423.76	0.0089	0.0059	
Earth	18566-09-29 04:33 G	8502423.52	8502423.69	8502423.92	0.0089	0.0056	*

Earth	18567-10-01 15:36 G	8502790.97	8502791.15	8502791.37	0.0089	0.0056
Moon	18567-10-01 18:57 G	8502791.10	8502791.29	8502791.52	0.0089	0.0052 *
Moon	18568-10-02 23:31 G	8503158.31	8503158.48	8503158.69	0.0089	0.0059
Earth	18568-10-03 02:24 G	8503158.43	8503158.60	8503158.82	0.0089	0.0056 *
Earth	18569-10-05 13:26 G	8503525.88	8503526.06	8503526.28	0.0089	0.0056
Moon	18569-10-05 15:36 G	8503525.96	8503526.15	8503526.39	0.0089	0.0053 *
Moon	18570-10-07 23:31 G	8503893.31	8503893.48	8503893.68	0.0089	0.0059
Earth	18570-10-08 00:00 G	8503893.33	8503893.50	8503893.73	0.0089	0.0056 *
Moon	18571-10-10 10:48 G	8504260.76	8504260.95	8504261.19	0.0089	0.0053
Earth	18571-10-10 10:48 G	8504260.78	8504260.95	8504261.17	0.0089	0.0056 *
Earth	18572-10-11 21:50 G	8504628.22	8504628.41	8504628.62	0.0089	0.0055
Moon	18572-10-11 23:31 G	8504628.30	8504628.48	8504628.67	0.0089	0.0058 *
Moon	18573-10-14 05:31 G	8504995.54	8504995.73	8504995.97	0.0088	0.0052
Earth	18573-10-14 08:38 G	8504995.67	8504995.86	8504996.07	0.0088	0.0055 *
Earth	18574-10-16 18:57 G	8505363.12	8505363.29	8505363.52	0.0088	0.0055
Moon	18574-10-16 22:19 G	8505363.25	8505363.43	8505363.64	0.0088	0.0057 *
Moon	18575-10-19 02:24 G	8505730.40	8505730.60	8505730.82	0.0088	0.0051
Earth	18575-10-19 06:00 G	8505730.56	8505730.75	8505730.97	0.0088	0.0054 *
Earth	18576-10-20 16:19 G	8506098.01	8506098.18	8506098.41	0.0088	0.0054
Moon	18576-10-20 20:24 G	8506098.15	8506098.35	8506098.55	0.0088	0.0056 *
Moon	18577-10-23 00:28 G	8506465.33	8506465.52	8506465.74	0.0088	0.0051
Earth	18577-10-23 03:21 G	8506465.45	8506465.64	8506465.86	0.0088	0.0053 *
Earth	18578-10-25 13:55 G	8506832.88	8506833.08	8506833.30	0.0088	0.0052
Moon	18578-10-25 15:36 G	8506832.97	8506833.15	8506833.38	0.0088	0.0054 *
Venus	18579-04-08 15:07 G	8506998.08	8506998.13	8506998.20	0.0088	0.0085
Moon	18579-10-27 23:45 G	8507200.30	8507200.49	8507200.72	0.0088	0.0049
Earth	18579-10-28 00:00 G	8507200.32	8507200.50	8507200.73	0.0088	0.0052 *
Venus	18579-11-20 03:36 G	8507223.53	8507223.65	8507223.82	0.0088	0.0066
Venus	18580-07-02 16:33 G	8507449.02	8507449.19	8507449.40	0.0088	0.0046
Moon	18580-10-29 10:04 G	8507567.73	8507567.92	8507568.16	0.0088	0.0052

Earth	18580-10-29 10:33 G	8507567.75	8507567.94	8507568.17	0.0088	0.0050	*
Venus	18581-02-13 05:45 G	8507674.53	8507674.74	8507674.95	0.0088	0.0026	
Venus	18581-09-26 18:28 G	8507900.05	8507900.27	8507900.49	0.0088	0.0006	
Earth	18581-10-31 20:52 G	8507935.18	8507935.37	8507935.60	0.0088	0.0049	
Moon	18581-10-31 23:02 G	8507935.25	8507935.46	8507935.67	0.0088	0.0047	*
Venus	18582-05-10 07:12 G	8508125.58	8508125.80	8508126.02	0.0088	0.0014	
Moon	18582-11-03 04:04 G	8508302.48	8508302.67	8508302.91	0.0088	0.0052	
Earth	18582-11-03 07:12 G	8508302.61	8508302.80	8508303.04	0.0088	0.0049	*
Venus	18582-12-21 19:40 G	8508351.13	8508351.32	8508351.53	0.0088	0.0033	
Venus	18583-08-04 08:24 G	8508576.69	8508576.85	8508577.04	0.0088	0.0053	
Earth	18583-11-05 17:31 G	8508670.03	8508670.23	8508670.46	0.0088	0.0047	
Moon	18583-11-05 20:38 G	8508670.16	8508670.36	8508670.60	0.0088	0.0046	*
Venus	18584-03-16 21:07 G	8508802.27	8508802.38	8508802.52	0.0088	0.0073	
Moon	18584-11-07 00:14 G	8509037.31	8509037.51	8509037.74	0.0088	0.0048	
Earth	18584-11-07 03:50 G	8509037.46	8509037.66	8509037.90	0.0088	0.0046	*
Earth	18585-11-09 14:38 G	8509404.89	8509405.11	8509405.33	0.0088	0.0045	
Moon	18585-11-09 17:31 G	8509405.01	8509405.23	8509405.47	0.0088	0.0042	*
Mercury	18586-06-06 01:26 G	8509613.54	8509613.56	8509613.59	0.0088	0.0086	
Mercury	18586-09-02 03:07 G	8509701.58	8509701.63	8509701.71	0.0088	0.0079	
Moon	18586-11-11 21:50 G	8509772.22	8509772.41	8509772.65	0.0088	0.0045	
Earth	18586-11-12 00:43 G	8509772.32	8509772.53	8509772.77	0.0088	0.0043	*
Mercury	18586-11-29 05:02 G	8509789.64	8509789.71	8509789.81	0.0088	0.0072	
Mercury	18587-02-25 07:12 G	8509877.70	8509877.80	8509877.91	0.0088	0.0064	
Mercury	18587-05-24 08:52 G	8509965.77	8509965.87	8509966.00	0.0088	0.0058	
Mercury	18587-08-20 11:02 G	8510053.84	8510053.96	8510054.10	0.0088	0.0050	
Earth	18587-11-14 11:02 G	8510139.75	8510139.96	8510140.20	0.0088	0.0042	
Moon	18587-11-14 12:28 G	8510139.81	8510140.02	8510140.28	0.0088	0.0040	*
Mercury	18587-11-16 12:57 G	8510141.92	8510142.04	8510142.19	0.0088	0.0042	
Mercury	18588-02-12 15:07 G	8510229.99	8510230.13	8510230.28	0.0088	0.0034	
Mercury	18588-05-10 17:02 G	8510318.07	8510318.21	8510318.36	0.0088	0.0027	

Mercury	18588-08-06 19:12 G	8510406.15	8510406.30	8510406.45	0.0088	0.0019
Mercury	18588-11-02 21:07 G	8510494.23	8510494.38	8510494.54	0.0088	0.0012
Earth	18588-11-15 21:50 G	8510507.18	8510507.41	8510507.64	0.0088	0.0040
Moon	18588-11-15 21:21 G	8510507.20	8510507.39	8510507.63	0.0088	0.0043 *
Mercury	18589-01-29 23:16 G	8510582.31	8510582.47	8510582.62	0.0088	0.0004
Mercury	18589-04-28 01:12 G	8510670.40	8510670.55	8510670.71	0.0088	0.0004
Mercury	18589-07-25 03:07 G	8510758.48	8510758.63	8510758.79	0.0088	0.0012
Mercury	18589-10-21 05:16 G	8510846.57	8510846.72	8510846.88	0.0088	0.0019
Moon	18589-11-18 07:12 G	8510874.57	8510874.80	8510875.05	0.0088	0.0037
Earth	18589-11-18 07:55 G	8510874.61	8510874.83	8510875.07	0.0088	0.0039 *
Mercury	18590-01-17 07:26 G	8510934.66	8510934.81	8510934.96	0.0088	0.0027
Mercury	18590-04-15 09:21 G	8511022.75	8511022.89	8511023.04	0.0088	0.0035
Mercury	18590-07-12 11:16 G	8511110.84	8511110.97	8511111.12	0.0088	0.0043
Mercury	18590-10-08 13:12 G	8511198.94	8511199.05	8511199.20	0.0088	0.0051
Earth	18590-11-20 18:28 G	8511242.04	8511242.27	8511242.50	0.0088	0.0037
Moon	18590-11-20 20:38 G	8511242.14	8511242.36	8511242.58	0.0088	0.0039 *
Mercury	18591-01-04 15:36 G	8511287.04	8511287.15	8511287.27	0.0088	0.0058
Mercury	18591-04-02 17:45 G	8511375.14	8511375.24	8511375.35	0.0088	0.0066
Mercury	18591-06-29 19:40 G	8511463.25	8511463.32	8511463.41	0.0088	0.0074
Mercury	18591-09-25 21:50 G	8511551.36	8511551.41	8511551.47	0.0088	0.0082
Moon	18591-11-23 01:26 G	8511609.32	8511609.56	8511609.80	0.0088	0.0033
Earth	18591-11-23 04:19 G	8511609.46	8511609.68	8511609.93	0.0088	0.0036 *
Earth	18592-11-24 14:38 G	8511976.89	8511977.11	8511977.36	0.0088	0.0034
Moon	18592-11-24 18:14 G	8511977.03	8511977.26	8511977.49	0.0088	0.0035 *
Moon	18593-11-26 21:07 G	8512344.16	8512344.38	8512344.64	0.0088	0.0031
Earth	18593-11-27 00:43 G	8512344.31	8512344.53	8512344.79	0.0088	0.0033 *
Earth	18594-11-29 11:02 G	8512711.73	8512711.96	8512712.21	0.0088	0.0031
Moon	18594-11-29 13:40 G	8512711.85	8512712.07	8512712.33	0.0088	0.0033 *
Moon	18595-12-01 19:12 G	8513079.06	8513079.30	8513079.54	0.0088	0.0028
Earth	18595-12-01 21:21 G	8513079.16	8513079.39	8513079.64	0.0088	0.0029 *



Earth	18596-12-03 07:40 G	8513446.58	8513446.82	8513447.07	0.0088	0.0027
Moon	18596-12-03 08:38 G	8513446.62	8513446.86	8513447.12	0.0088	0.0029 *
Earth	18597-12-05 17:31 G	8513814.00	8513814.23	8513814.49	0.0088	0.0026
Moon	18597-12-05 18:14 G	8513814.03	8513814.26	8513814.51	0.0088	0.0024 *
Moon	18598-12-08 02:38 G	8514181.37	8514181.61	8514181.88	0.0088	0.0025
Earth	18598-12-08 03:50 G	8514181.43	8514181.66	8514181.92	0.0088	0.0024 *
Earth	18599-12-10 14:09 G	8514548.86	8514549.09	8514549.35	0.0088	0.0022
Moon	18599-12-10 16:48 G	8514548.97	8514549.20	8514549.46	0.0088	0.0021 *
Moon	18600-12-12 21:21 G	8514916.15	8514916.39	8514916.65	0.0088	0.0022
Earth	18600-12-13 00:43 G	8514916.29	8514916.53	8514916.79	0.0088	0.0020 *
Earth	18601-12-15 11:02 G	8515283.72	8515283.96	8515284.22	0.0088	0.0018
Moon	18601-12-15 14:38 G	8515283.86	8515284.11	8515284.37	0.0088	0.0017 *
Moon	18602-12-17 18:00 G	8515651.01	8515651.25	8515651.50	0.0088	0.0017
Earth	18602-12-17 21:36 G	8515651.15	8515651.40	8515651.66	0.0088	0.0016 *
Earth	18603-12-20 07:55 G	8516018.58	8516018.83	8516019.09	0.0088	0.0014
Moon	18603-12-20 10:33 G	8516018.68	8516018.94	8516019.20	0.0088	0.0013 *
Moon	18604-12-21 16:04 G	8516385.93	8516386.17	8516386.43	0.0088	0.0013
Earth	18604-12-21 18:14 G	8516386.01	8516386.26	8516386.52	0.0088	0.0012 *
Earth	18605-12-24 04:19 G	8516753.43	8516753.68	8516753.94	0.0088	0.0010
Moon	18605-12-24 05:02 G	8516753.45	8516753.71	8516753.98	0.0088	0.0009 *
Earth	18606-12-26 14:38 G	8517120.86	8517121.11	8517121.37	0.0088	0.0008
Moon	18606-12-26 15:36 G	8517120.91	8517121.15	8517121.40	0.0088	0.0009 *
Moon	18607-12-28 23:31 G	8517488.22	8517488.48	8517488.75	0.0088	0.0005
Earth	18607-12-29 01:12 G	8517488.29	8517488.55	8517488.81	0.0088	0.0006 *
Earth	18608-12-30 11:31 G	8517855.72	8517855.98	8517856.23	0.0088	0.0004
Moon	18608-12-30 14:24 G	8517855.85	8517856.10	8517856.35	0.0088	0.0005 *
Moon	18610-01-01 18:28 G	8518223.01	8518223.27	8518223.53	0.0088	0.0001
Earth	18610-01-01 21:50 G	8518223.15	8518223.41	8518223.67	0.0088	0.0002 *
Earth	18611-01-04 08:09 G	8518590.58	8518590.84	8518591.10	0.0088	0.0000
Moon	18611-01-04 11:45 G	8518590.73	8518590.99	8518591.24	0.0088	0.0001 *

Moon	18612-01-06 15:21 G	8518957.89	8518958.14	8518958.40	0.0088	0.0003
Earth	18612-01-06 18:43 G	8518958.02	8518958.28	8518958.54	0.0088	0.0002 *
Earth	18613-01-08 05:16 G	8519325.46	8519325.72	8519325.98	0.0088	0.0004
Moon	18613-01-08 07:40 G	8519325.55	8519325.82	8519326.08	0.0088	0.0004 *
Moon	18614-01-10 13:55 G	8519692.84	8519693.08	8519693.34	0.0088	0.0007
Earth	18614-01-10 15:36 G	8519692.90	8519693.15	8519693.42	0.0088	0.0007 *
Earth	18615-01-13 02:24 G	8520060.35	8520060.60	8520060.86	0.0088	0.0009
Moon	18615-01-13 02:38 G	8520060.35	8520060.61	8520060.88	0.0088	0.0008 *
Earth	18616-01-15 12:57 G	8520427.79	8520428.04	8520428.30	0.0088	0.0011
Moon	18616-01-15 14:24 G	8520427.85	8520428.10	8520428.35	0.0088	0.0011 *
Moon	18617-01-16 21:36 G	8520795.14	8520795.40	8520795.67	0.0088	0.0013
Earth	18617-01-16 23:31 G	8520795.23	8520795.48	8520795.75	0.0088	0.0013 *
Earth	18618-01-19 10:04 G	8521162.68	8521162.92	8521163.19	0.0088	0.0015
Moon	18618-01-19 13:12 G	8521162.81	8521163.05	8521163.31	0.0088	0.0015 *
Moon	18619-01-21 17:16 G	8521529.98	8521530.22	8521530.49	0.0088	0.0016
Earth	18619-01-21 20:52 G	8521530.12	8521530.37	8521530.63	0.0088	0.0017 *
Earth	18620-01-24 07:40 G	8521897.57	8521897.82	8521898.07	0.0088	0.0018
Moon	18620-01-24 11:02 G	8521897.72	8521897.96	8521898.22	0.0088	0.0018 *
Moon	18621-01-25 15:21 G	8522264.89	8522265.14	8522265.39	0.0088	0.0020
Earth	18621-01-25 18:28 G	8522265.02	8522265.27	8522265.52	0.0088	0.0020 *
Earth	18622-01-28 05:02 G	8522632.46	8522632.71	8522632.96	0.0088	0.0022
Moon	18622-01-28 06:57 G	8522632.55	8522632.79	8522633.06	0.0088	0.0022 *
Moon	18623-01-30 14:24 G	8522999.87	8523000.10	8523000.35	0.0088	0.0025
Earth	18623-01-30 15:50 G	8522999.92	8523000.16	8523000.42	0.0088	0.0024 *
Moon	18624-02-02 02:24 G	8523367.36	8523367.60	8523367.87	0.0088	0.0026
Earth	18624-02-02 02:38 G	8523367.38	8523367.61	8523367.87	0.0088	0.0026 *
Earth	18625-02-03 13:40 G	8523734.83	8523735.07	8523735.33	0.0088	0.0028
Moon	18625-02-03 15:07 G	8523734.91	8523735.13	8523735.38	0.0088	0.0028 *
Moon	18626-02-05 22:33 G	8524102.20	8524102.44	8524102.71	0.0088	0.0029
Earth	18626-02-06 00:43 G	8524102.30	8524102.53	8524102.79	0.0088	0.0030 *

Earth	18627-02-08 12:00 G	8524469.77	8524470.00	8524470.25	0.0088	0.0031
Moon	18627-02-08 15:21 G	8524469.91	8524470.14	8524470.39	0.0088	0.0032 *
Moon	18628-02-10 19:40 G	8524837.10	8524837.32	8524837.58	0.0088	0.0033
Earth	18628-02-10 23:16 G	8524837.24	8524837.47	8524837.72	0.0088	0.0033 *
Earth	18629-02-12 10:48 G	8525204.71	8525204.95	8525205.19	0.0088	0.0034
Moon	18629-02-12 14:09 G	8525204.86	8525205.09	8525205.34	0.0088	0.0036 *
Moon	18630-02-14 18:43 G	8525572.06	8525572.28	8525572.53	0.0088	0.0035
Earth	18630-02-14 21:50 G	8525572.18	8525572.41	8525572.65	0.0088	0.0036 *
Earth	18631-02-17 09:21 G	8525939.66	8525939.89	8525940.12	0.0088	0.0038
Moon	18631-02-17 11:16 G	8525939.73	8525939.97	8525940.21	0.0088	0.0039 *
Moon	18632-02-19 19:26 G	8526307.09	8526307.31	8526307.54	0.0088	0.0037
Earth	18632-02-19 20:24 G	8526307.13	8526307.35	8526307.60	0.0088	0.0039 *
Moon	18633-02-21 07:26 G	8526674.58	8526674.81	8526675.05	0.0088	0.0042
Earth	18633-02-21 07:55 G	8526674.60	8526674.83	8526675.06	0.0088	0.0040 *
Earth	18634-02-23 18:57 G	8527042.08	8527042.29	8527042.54	0.0088	0.0042
Moon	18634-02-23 20:38 G	8527042.16	8527042.36	8527042.60	0.0088	0.0041 *
Moon	18635-02-26 04:04 G	8527409.46	8527409.67	8527409.92	0.0088	0.0045
Earth	18635-02-26 06:28 G	8527409.57	8527409.77	8527410.02	0.0088	0.0044 *
Earth	18636-02-28 18:14 G	8527777.05	8527777.26	8527777.49	0.0088	0.0044
Moon	18636-02-28 21:50 G	8527777.19	8527777.41	8527777.64	0.0088	0.0043 *
Moon	18637-03-02 02:09 G	8528144.39	8528144.59	8528144.83	0.0088	0.0047
Earth	18637-03-02 06:00 G	8528144.54	8528144.75	8528144.98	0.0088	0.0045 *
Mars	18638-01-26 18:00 G	8528474.99	8528475.25	8528475.54	0.0088	0.0049
Earth	18638-03-04 17:31 G	8528512.02	8528512.23	8528512.46	0.0088	0.0047
Moon	18638-03-04 20:52 G	8528512.17	8528512.37	8528512.62	0.0088	0.0044 *
Moon	18639-03-07 02:38 G	8528879.41	8528879.61	8528879.83	0.0088	0.0050
Earth	18639-03-07 05:31 G	8528879.52	8528879.73	8528879.96	0.0088	0.0048 *
Mars	18639-12-23 01:26 G	8529170.28	8529170.56	8529170.86	0.0088	0.0037
Earth	18640-03-08 17:16 G	8529247.02	8529247.22	8529247.45	0.0088	0.0049
Moon	18640-03-08 19:12 G	8529247.09	8529247.30	8529247.55	0.0088	0.0047 *

Moon	18641-03-11 03:50 G	8529614.48	8529614.66	8529614.88	0.0088	0.0052
Earth	18641-03-11 05:02 G	8529614.52	8529614.71	8529614.94	0.0088	0.0050 *
Moon	18642-03-13 17:02 G	8529981.98	8529982.21	8529982.43	0.0088	0.0048
Earth	18642-03-13 17:02 G	8529982.02	8529982.21	8529982.44	0.0088	0.0051 *
Earth	18643-03-16 05:31 G	8530349.52	8530349.73	8530349.94	0.0088	0.0051
Moon	18643-03-16 06:28 G	8530349.59	8530349.77	8530349.99	0.0088	0.0054 *
Moon	18644-03-17 14:52 G	8530716.91	8530717.12	8530717.35	0.0088	0.0049
Earth	18644-03-17 17:02 G	8530717.02	8530717.21	8530717.44	0.0088	0.0052 *
Earth	18645-03-20 04:48 G	8531084.52	8531084.70	8531084.94	0.0088	0.0053
Moon	18645-03-20 08:38 G	8531084.67	8531084.86	8531085.07	0.0088	0.0055 *
Moon	18646-03-22 13:26 G	8531451.87	8531452.06	8531452.30	0.0089	0.0051
Earth	18646-03-22 17:16 G	8531452.02	8531452.22	8531452.44	0.0089	0.0053 *
Earth	18647-03-25 05:31 G	8531819.53	8531819.73	8531819.94	0.0089	0.0053
Moon	18647-03-25 08:52 G	8531819.69	8531819.87	8531820.09	0.0089	0.0057 *
Moon	18648-03-26 14:38 G	8532186.92	8532187.11	8532187.33	0.0089	0.0051
Earth	18648-03-26 17:31 G	8532187.04	8532187.23	8532187.45	0.0089	0.0054 *
Earth	18649-03-29 05:31 G	8532554.54	8532554.73	8532554.96	0.0089	0.0054
Moon	18649-03-29 07:40 G	8532554.63	8532554.82	8532555.04	0.0089	0.0057 *
Moon	18650-03-31 16:33 G	8532922.01	8532922.19	8532922.42	0.0089	0.0051
Earth	18650-03-31 18:14 G	8532922.06	8532922.26	8532922.47	0.0089	0.0054 *
Moon	18651-04-03 06:14 G	8533289.57	8533289.76	8533289.98	0.0089	0.0057
Earth	18651-04-03 06:43 G	8533289.58	8533289.78	8533289.99	0.0089	0.0054 *
Earth	18652-04-04 19:12 G	8533657.10	8533657.30	8533657.51	0.0089	0.0054
Moon	18652-04-04 20:38 G	8533657.16	8533657.36	8533657.57	0.0089	0.0051 *
Moon	18653-04-07 05:16 G	8534024.54	8534024.72	8534024.94	0.0089	0.0058
Earth	18653-04-07 07:40 G	8534024.63	8534024.82	8534025.04	0.0089	0.0054 *
Earth	18654-04-09 20:09 G	8534392.15	8534392.34	8534392.56	0.0089	0.0054
Moon	18654-04-09 23:45 G	8534392.29	8534392.49	8534392.71	0.0089	0.0050 *
Moon	18655-04-12 05:31 G	8534759.54	8534759.73	8534759.94	0.0089	0.0057
Earth	18655-04-12 08:38 G	8534759.68	8534759.86	8534760.09	0.0089	0.0054 *

Earth	18656-04-13 21:50 G	8535127.20	8535127.41	8535127.61	0.0089	0.0053
Moon	18656-04-14 01:12 G	8535127.35	8535127.55	8535127.78	0.0089	0.0049 *
Moon	18657-04-16 06:57 G	8535494.61	8535494.79	8535495.00	0.0089	0.0057
Earth	18657-04-16 09:50 G	8535494.72	8535494.91	8535495.14	0.0089	0.0053 *
Earth	18658-04-18 22:33 G	8535862.25	8535862.44	8535862.67	0.0089	0.0053
Moon	18658-04-19 01:26 G	8535862.34	8535862.56	8535862.78	0.0089	0.0048 *
Moon	18659-04-21 10:04 G	8536229.73	8536229.92	8536230.12	0.0089	0.0056
Earth	18659-04-21 11:31 G	8536229.78	8536229.98	8536230.20	0.0089	0.0052 *
Moon	18660-04-23 00:00 G	8536597.28	8536597.50	8536597.74	0.0089	0.0047
Earth	18660-04-23 00:14 G	8536597.31	8536597.51	8536597.73	0.0089	0.0051 *
Earth	18661-04-25 12:43 G	8536964.84	8536965.03	8536965.26	0.0089	0.0051
Moon	18661-04-25 13:40 G	8536964.90	8536965.07	8536965.29	0.0089	0.0055 *
Moon	18662-04-27 23:45 G	8537332.28	8537332.49	8537332.73	0.0089	0.0045
Earth	18662-04-28 01:40 G	8537332.38	8537332.57	8537332.81	0.0089	0.0050 *
Venus	18662-08-19 05:16 G	8537445.62	8537445.72	8537445.82	0.0089	0.0078
Venus	18663-04-01 18:14 G	8537671.11	8537671.26	8537671.44	0.0089	0.0058
Earth	18663-04-30 14:38 G	8537699.91	8537700.11	8537700.35	0.0089	0.0049
Moon	18663-04-30 18:00 G	8537700.06	8537700.25	8537700.47	0.0089	0.0054 *
Venus	18663-11-13 07:26 G	8537896.62	8537896.81	8537897.02	0.0089	0.0038
Moon	18664-05-02 00:14 G	8538067.31	8538067.51	8538067.76	0.0089	0.0044
Earth	18664-05-02 03:50 G	8538067.46	8538067.66	8538067.89	0.0089	0.0048 *
Venus	18664-06-25 20:38 G	8538122.16	8538122.36	8538122.59	0.0089	0.0019
Venus	18665-02-06 10:19 G	8538347.71	8538347.93	8538348.15	0.0089	0.0002
Earth	18665-05-04 16:48 G	8538434.99	8538435.20	8538435.43	0.0089	0.0047
Moon	18665-05-04 20:24 G	8538435.16	8538435.35	8538435.58	0.0089	0.0052 *
Venus	18665-09-19 23:16 G	8538573.27	8538573.47	8538573.69	0.0089	0.0023
Venus	18666-05-03 12:28 G	8538798.84	8538799.02	8538799.22	0.0089	0.0043
Moon	18666-05-07 03:07 G	8538802.41	8538802.63	8538802.86	0.0089	0.0042
Earth	18666-05-07 06:00 G	8538802.55	8538802.75	8538802.99	0.0089	0.0046 *
Venus	18666-12-15 01:40 G	8539024.43	8539024.57	8539024.74	0.0089	0.0063

Earth	18667-05-09 18:57 G	8539170.09	8539170.29	8539170.54	0.0089	0.0046
Moon	18667-05-09 21:50 G	8539170.21	8539170.41	8539170.65	0.0089	0.0049 *
Venus	18667-07-28 14:52 G	8539250.06	8539250.12	8539250.21	0.0089	0.0084
Moon	18668-05-11 06:28 G	8539537.56	8539537.77	8539538.01	0.0089	0.0039
Earth	18668-05-11 08:24 G	8539537.63	8539537.85	8539538.08	0.0089	0.0044 *
Earth	18669-05-13 21:21 G	8539905.18	8539905.39	8539905.63	0.0089	0.0042
Moon	18669-05-13 21:36 G	8539905.18	8539905.40	8539905.64	0.0089	0.0047 *
Mercury	18669-09-03 21:21 G	8540018.37	8540018.39	8540018.43	0.0089	0.0087
Mercury	18669-11-30 23:31 G	8540106.43	8540106.48	8540106.57	0.0089	0.0079
Mercury	18670-02-27 02:09 G	8540194.50	8540194.59	8540194.70	0.0089	0.0070
Earth	18670-05-16 10:19 G	8540272.72	8540272.93	8540273.18	0.0089	0.0041
Moon	18670-05-16 11:02 G	8540272.75	8540272.96	8540273.20	0.0089	0.0037 *
Mercury	18670-05-26 04:19 G	8540282.58	8540282.68	8540282.81	0.0089	0.0062
Mercury	18670-08-22 06:57 G	8540370.66	8540370.79	8540370.92	0.0089	0.0054
Mercury	18670-11-18 09:07 G	8540458.75	8540458.88	8540459.03	0.0089	0.0045
Mercury	18671-02-14 11:16 G	8540546.84	8540546.97	8540547.13	0.0089	0.0038
Mercury	18671-05-13 13:55 G	8540634.93	8540635.08	8540635.23	0.0089	0.0028
Moon	18671-05-18 21:36 G	8540640.19	8540640.40	8540640.65	0.0089	0.0044
Earth	18671-05-18 23:31 G	8540640.26	8540640.48	8540640.73	0.0089	0.0040 *
Mercury	18671-08-09 16:04 G	8540723.02	8540723.17	8540723.33	0.0089	0.0020
Mercury	18671-11-05 18:28 G	8540811.11	8540811.27	8540811.43	0.0089	0.0012
Mercury	18672-02-01 20:38 G	8540899.20	8540899.36	8540899.52	0.0089	0.0004
Mercury	18672-04-29 23:02 G	8540987.30	8540987.46	8540987.62	0.0089	0.0005
Earth	18672-05-20 12:28 G	8541007.80	8541008.02	8541008.27	0.0089	0.0038
Moon	18672-05-20 15:36 G	8541007.92	8541008.15	8541008.39	0.0089	0.0034 *
Mercury	18672-07-27 01:12 G	8541075.39	8541075.55	8541075.71	0.0089	0.0013
Mercury	18672-10-23 03:21 G	8541163.49	8541163.64	8541163.80	0.0089	0.0021
Mercury	18673-01-19 05:31 G	8541251.59	8541251.73	8541251.89	0.0089	0.0029
Mercury	18673-04-17 07:40 G	8541339.68	8541339.82	8541339.97	0.0089	0.0037
Moon	18673-05-22 22:33 G	8541375.21	8541375.44	8541375.68	0.0089	0.0041

Earth	18673-05-23 01:40 G	8541375.34	8541375.57	8541375.82	0.0089	0.0037 *
Mercury	18673-07-14 09:50 G	8541427.78	8541427.91	8541428.06	0.0089	0.0045
Mercury	18673-10-10 12:00 G	8541515.89	8541516.00	8541516.14	0.0089	0.0053
Mercury	18674-01-06 14:09 G	8541603.99	8541604.09	8541604.22	0.0089	0.0061
Mercury	18674-04-04 16:19 G	8541692.10	8541692.18	8541692.29	0.0089	0.0069
Earth	18674-05-25 14:38 G	8541742.89	8541743.11	8541743.37	0.0089	0.0035
Moon	18674-05-25 18:28 G	8541743.04	8541743.27	8541743.53	0.0089	0.0031 *
Mercury	18674-07-01 18:28 G	8541780.21	8541780.27	8541780.36	0.0089	0.0077
Mercury	18674-09-27 20:52 G	8541868.33	8541868.37	8541868.42	0.0089	0.0085
Moon	18675-05-28 00:43 G	8542110.31	8542110.53	8542110.78	0.0089	0.0038
Earth	18675-05-28 04:04 G	8542110.44	8542110.67	8542110.92	0.0089	0.0033 *
Earth	18676-05-29 17:16 G	8542477.98	8542478.22	8542478.47	0.0089	0.0032
Moon	18676-05-29 20:09 G	8542478.10	8542478.34	8542478.60	0.0089	0.0028 *
Moon	18677-06-01 04:19 G	8542845.46	8542845.68	8542845.93	0.0089	0.0035
Earth	18677-06-01 06:43 G	8542845.54	8542845.78	8542846.03	0.0089	0.0030 *
Jupiter	18678-01-29 16:04 G	8543087.68	8543088.17	8543088.70	0.0089	0.0019
Earth	18678-06-03 19:40 G	8543213.09	8543213.32	8543213.58	0.0089	0.0029
Moon	18678-06-03 20:38 G	8543213.10	8543213.36	8543213.62	0.0089	0.0024 *
Earth	18679-06-06 08:52 G	8543580.64	8543580.87	8543581.14	0.0089	0.0027
Moon	18679-06-06 09:21 G	8543580.66	8543580.89	8543581.13	0.0089	0.0030 *
Moon	18680-06-07 21:07 G	8543948.12	8543948.38	8543948.64	0.0089	0.0020
Earth	18680-06-07 22:19 G	8543948.19	8543948.43	8543948.69	0.0089	0.0025 *
Earth	18681-06-10 11:31 G	8544315.74	8544315.98	8544316.24	0.0089	0.0022
Moon	18681-06-10 14:09 G	8544315.86	8544316.09	8544316.34	0.0089	0.0027 *
Moon	18682-06-12 21:36 G	8544683.15	8544683.40	8544683.67	0.0089	0.0017
Earth	18682-06-13 00:43 G	8544683.29	8544683.53	8544683.79	0.0089	0.0021 *
Earth	18683-06-15 13:40 G	8545050.83	8545051.07	8545051.34	0.0089	0.0019
Moon	18683-06-15 17:31 G	8545050.99	8545051.23	8545051.49	0.0089	0.0023 *
Moon	18684-06-16 23:31 G	8545418.23	8545418.48	8545418.74	0.0089	0.0012
Earth	18684-06-17 02:52 G	8545418.37	8545418.62	8545418.88	0.0089	0.0017 *

Earth	18685-06-19 15:50 G	8545785.91	8545786.16	8545786.42	0.0089	0.0015
Moon	18685-06-19 18:57 G	8545786.04	8545786.29	8545786.56	0.0089	0.0018 *
Moon	18686-06-22 02:52 G	8546153.37	8546153.62	8546153.87	0.0089	0.0009
Earth	18686-06-22 05:02 G	8546153.46	8546153.71	8546153.97	0.0089	0.0013 *
Earth	18687-06-24 18:00 G	8546521.00	8546521.25	8546521.51	0.0089	0.0010
Moon	18687-06-24 18:57 G	8546521.03	8546521.29	8546521.56	0.0089	0.0014 *
Moon	18688-06-26 06:43 G	8546888.53	8546888.78	8546889.03	0.0089	0.0006
Earth	18688-06-26 06:57 G	8546888.54	8546888.79	8546889.06	0.0089	0.0009 *
Moon	18689-06-28 18:57 G	8547256.03	8547256.29	8547256.56	0.0089	0.0009
Earth	18689-06-28 20:09 G	8547256.09	8547256.34	8547256.60	0.0089	0.0006 *
Earth	18690-07-01 09:21 G	8547623.63	8547623.89	8547624.15	0.0089	0.0004
Moon	18690-07-01 11:45 G	8547623.74	8547623.99	8547624.24	0.0089	0.0001 *
Moon	18691-07-03 19:40 G	8547991.06	8547991.32	8547991.58	0.0089	0.0005
Earth	18691-07-03 22:33 G	8547991.18	8547991.44	8547991.70	0.0089	0.0002 *
Earth	18692-07-05 11:31 G	8548358.72	8548358.98	8548359.24	0.0089	0.0001
Moon	18692-07-05 15:07 G	8548358.87	8548359.13	8548359.39	0.0089	0.0003 *
Moon	18693-07-07 21:07 G	8548726.12	8548726.38	8548726.64	0.0089	0.0001
Earth	18693-07-08 00:28 G	8548726.27	8548726.52	8548726.78	0.0089	0.0003 *
Earth	18694-07-10 13:26 G	8549093.80	8549094.06	8549094.32	0.0090	0.0004
Moon	18694-07-10 16:48 G	8549093.94	8549094.20	8549094.46	0.0090	0.0006 *
Moon	18695-07-12 23:31 G	8549461.24	8549461.48	8549461.74	0.0090	0.0005
Earth	18695-07-13 02:09 G	8549461.34	8549461.59	8549461.85	0.0090	0.0007 *
Earth	18696-07-14 14:52 G	8549828.87	8549829.12	8549829.38	0.0089	0.0009
Moon	18696-07-14 16:19 G	8549828.92	8549829.18	8549829.45	0.0089	0.0010 *
Moon	18697-07-17 02:52 G	8550196.38	8550196.62	8550196.88	0.0089	0.0010
Earth	18697-07-17 03:36 G	8550196.40	8550196.65	8550196.91	0.0089	0.0011 *
Moon	18698-07-19 15:21 G	8550563.88	8550564.14	8550564.41	0.0089	0.0015
Earth	18698-07-19 16:19 G	8550563.93	8550564.18	8550564.44	0.0089	0.0013 *
Earth	18699-07-22 05:02 G	8550931.46	8550931.71	8550931.97	0.0089	0.0015
Moon	18699-07-22 07:12 G	8550931.55	8550931.80	8550932.05	0.0089	0.0013 *



Moon	18700-07-24 15:07 G	8551298.87	8551299.13	8551299.39	0.0089	0.0018
Earth	18700-07-24 17:45 G	8551298.99	8551299.24	8551299.50	0.0089	0.0017 *
Earth	18701-07-27 06:14 G	8551666.52	8551666.76	8551667.02	0.0089	0.0019
Moon	18701-07-27 09:50 G	8551666.67	8551666.91	8551667.17	0.0089	0.0017 *
Moon	18702-07-29 15:36 G	8552033.91	8552034.15	8552034.41	0.0089	0.0022
Earth	18702-07-29 19:12 G	8552034.05	8552034.30	8552034.56	0.0089	0.0020 *
Earth	18703-08-01 07:26 G	8552401.57	8552401.81	8552402.07	0.0089	0.0023
Moon	18703-08-01 11:02 G	8552401.72	8552401.96	8552402.22	0.0089	0.0023 *
Moon	18704-08-02 17:31 G	8552769.00	8552769.23	8552769.48	0.0089	0.0026
Earth	18704-08-02 20:09 G	8552769.11	8552769.34	8552769.60	0.0089	0.0025 *
Earth	18705-08-05 08:38 G	8553136.63	8553136.86	8553137.12	0.0089	0.0027
Moon	18705-08-05 10:33 G	8553136.69	8553136.94	8553137.20	0.0089	0.0026 *
Moon	18706-08-07 20:09 G	8553504.12	8553504.34	8553504.59	0.0089	0.0028
Earth	18706-08-07 21:21 G	8553504.15	8553504.39	8553504.64	0.0089	0.0028 *
Moon	18707-08-10 08:52 G	8553871.62	8553871.87	8553872.12	0.0089	0.0029
Earth	18707-08-10 09:36 G	8553871.67	8553871.90	8553872.15	0.0089	0.0030 *
Earth	18708-08-11 21:36 G	8554239.17	8554239.40	8554239.66	0.0089	0.0032
Moon	18708-08-11 23:45 G	8554239.26	8554239.49	8554239.72	0.0089	0.0032 *
Moon	18709-08-14 07:12 G	8554606.57	8554606.80	8554607.06	0.0089	0.0033
Earth	18709-08-14 10:04 G	8554606.69	8554606.92	8554607.17	0.0089	0.0033 *
Earth	18710-08-16 22:04 G	8554974.19	8554974.42	8554974.67	0.0089	0.0034
Moon	18710-08-17 01:40 G	8554974.34	8554974.57	8554974.81	0.0089	0.0034 *
Moon	18711-08-19 06:43 G	8555341.55	8555341.78	8555342.02	0.0089	0.0036
Earth	18711-08-19 10:19 G	8555341.70	8555341.93	8555342.17	0.0089	0.0036 *
Earth	18712-08-20 22:04 G	8555709.20	8555709.42	8555709.67	0.0089	0.0037
Moon	18712-08-21 01:26 G	8555709.35	8555709.56	8555709.82	0.0089	0.0037 *
Moon	18713-08-23 07:26 G	8556076.60	8556076.81	8556077.05	0.0089	0.0039
Earth	18713-08-23 10:19 G	8556076.71	8556076.93	8556077.17	0.0089	0.0039 *
Earth	18714-08-25 22:04 G	8556444.21	8556444.42	8556444.66	0.0089	0.0040
Moon	18714-08-25 23:45 G	8556444.27	8556444.49	8556444.75	0.0089	0.0039 *

Moon	18715-08-28 09:21 G	8556811.68	8556811.89	8556812.12	0.0089	0.0042
Earth	18715-08-28 10:04 G	8556811.71	8556811.92	8556812.17	0.0089	0.0041 *
Moon	18716-08-29 21:21 G	8557179.17	8557179.39	8557179.64	0.0089	0.0042
Earth	18716-08-29 22:04 G	8557179.21	8557179.42	8557179.66	0.0089	0.0043 *
Earth	18717-09-01 10:04 G	8557546.71	8557546.92	8557547.16	0.0089	0.0043
Moon	18717-09-01 11:45 G	8557546.79	8557546.99	8557547.22	0.0089	0.0044 *
Moon	18718-09-03 19:12 G	8557914.09	8557914.30	8557914.55	0.0089	0.0043
Earth	18718-09-03 22:04 G	8557914.20	8557914.42	8557914.65	0.0089	0.0044 *
Earth	18719-09-06 09:21 G	8558281.68	8558281.89	8558282.12	0.0089	0.0045
Moon	18719-09-06 12:57 G	8558281.83	8558282.04	8558282.27	0.0089	0.0046 *
Mars	18719-10-11 15:21 G	8558316.87	8558317.14	8558317.44	0.0089	0.0029
Moon	18720-09-07 17:31 G	8558649.03	8558649.23	8558649.47	0.0089	0.0045
Earth	18720-09-07 21:07 G	8558649.17	8558649.38	8558649.61	0.0089	0.0046 *
Mars	18721-09-04 23:02 G	8559011.24	8559011.46	8559011.74	0.0089	0.0052
Earth	18721-09-10 08:24 G	8559016.65	8559016.85	8559017.08	0.0089	0.0047
Moon	18721-09-10 12:00 G	8559016.80	8559017.00	8559017.23	0.0089	0.0050 *
Moon	18722-09-12 17:31 G	8559384.02	8559384.23	8559384.45	0.0089	0.0046
Earth	18722-09-12 19:40 G	8559384.13	8559384.32	8559384.56	0.0089	0.0048 *
Earth	18723-09-15 07:26 G	8559751.60	8559751.81	8559752.03	0.0089	0.0048
Moon	18723-09-15 09:07 G	8559751.67	8559751.88	8559752.11	0.0089	0.0050 *
Moon	18724-09-16 17:45 G	8560119.04	8560119.24	8560119.46	0.0089	0.0047
Earth	18724-09-16 18:28 G	8560119.08	8560119.27	8560119.50	0.0089	0.0049 *
Moon	18725-09-19 04:48 G	8560486.50	8560486.70	8560486.94	0.0089	0.0051
Earth	18725-09-19 05:45 G	8560486.55	8560486.74	8560486.97	0.0089	0.0050 *
Earth	18726-09-21 17:02 G	8560854.02	8560854.21	8560854.44	0.0089	0.0050
Moon	18726-09-21 19:12 G	8560854.09	8560854.30	8560854.51	0.0089	0.0048 *
Moon	18727-09-24 01:26 G	8561221.37	8561221.56	8561221.79	0.0089	0.0053
Earth	18727-09-24 04:48 G	8561221.49	8561221.70	8561221.91	0.0089	0.0050 *
Earth	18728-09-25 15:36 G	8561588.96	8561589.15	8561589.38	0.0089	0.0051
Moon	18728-09-25 18:57 G	8561589.10	8561589.29	8561589.53	0.0089	0.0049 *

Moon	18729-09-27 23:45 G	8561956.29	8561956.49	8561956.70	0.0089	0.0053
Earth	18729-09-28 02:52 G	8561956.43	8561956.62	8561956.85	0.0089	0.0051 *
Earth	18730-09-30 14:09 G	8562323.89	8562324.09	8562324.31	0.0089	0.0051
Moon	18730-09-30 17:31 G	8562324.03	8562324.23	8562324.46	0.0089	0.0048 *
Moon	18731-10-02 22:33 G	8562691.26	8562691.44	8562691.66	0.0089	0.0054
Earth	18731-10-03 01:12 G	8562691.35	8562691.55	8562691.77	0.0089	0.0051 *
Earth	18732-10-04 12:14 G	8563058.81	8563059.01	8563059.23	0.0089	0.0051
Moon	18732-10-04 13:40 G	8563058.87	8563059.07	8563059.31	0.0089	0.0049 *
Moon	18733-10-06 22:33 G	8563426.25	8563426.44	8563426.64	0.0089	0.0054
Earth	18733-10-06 23:02 G	8563426.26	8563426.46	8563426.68	0.0089	0.0051 *
Moon	18734-10-09 08:24 G	8563793.65	8563793.85	8563794.10	0.0089	0.0049
Earth	18734-10-09 09:50 G	8563793.72	8563793.91	8563794.13	0.0089	0.0051 *
Earth	18735-10-11 20:24 G	8564161.16	8564161.35	8564161.58	0.0089	0.0051
Moon	18735-10-11 22:19 G	8564161.25	8564161.43	8564161.65	0.0089	0.0054 *
Moon	18736-10-13 04:33 G	8564528.48	8564528.69	8564528.92	0.0089	0.0047
Earth	18736-10-13 07:12 G	8564528.61	8564528.80	8564529.03	0.0089	0.0051 *
Earth	18737-10-15 18:14 G	8564896.06	8564896.26	8564896.48	0.0088	0.0050
Moon	18737-10-15 21:36 G	8564896.21	8564896.40	8564896.62	0.0088	0.0053 *
Moon	18738-10-18 01:12 G	8565263.35	8565263.55	8565263.79	0.0088	0.0047
Earth	18738-10-18 04:33 G	8565263.50	8565263.69	8565263.92	0.0088	0.0050 *
Earth	18739-10-20 15:36 G	8565630.94	8565631.15	8565631.37	0.0088	0.0049
Moon	18739-10-20 18:43 G	8565631.09	8565631.28	8565631.51	0.0088	0.0053 *
Moon	18740-10-22 00:00 G	8565998.31	8565998.50	8565998.73	0.0088	0.0046
Earth	18740-10-22 02:09 G	8565998.39	8565998.59	8565998.82	0.0088	0.0049 *
Earth	18741-10-24 12:57 G	8566365.84	8566366.04	8566366.27	0.0088	0.0048
Moon	18741-10-24 14:24 G	8566365.89	8566366.10	8566366.33	0.0088	0.0051 *
Moon	18742-10-26 23:16 G	8566733.27	8566733.47	8566733.70	0.0088	0.0044
Earth	18742-10-26 23:45 G	8566733.28	8566733.49	8566733.71	0.0088	0.0047 *
Moon	18743-10-29 08:52 G	8567100.65	8567100.87	8567101.09	0.0088	0.0049
Earth	18743-10-29 10:04 G	8567100.72	8567100.92	8567101.16	0.0088	0.0046 *

Venus	18744-02-23 14:09 G	8567217.99	8567218.09	8567218.23	0.0088	0.0074
Venus	18744-10-06 03:07 G	8567443.47	8567443.63	8567443.82	0.0088	0.0054
Earth	18744-10-30 20:38 G	8567468.16	8567468.36	8567468.60	0.0088	0.0045
Moon	18744-10-30 22:48 G	8567468.25	8567468.45	8567468.68	0.0088	0.0042 *
Venus	18745-05-19 15:50 G	8567668.97	8567669.16	8567669.38	0.0088	0.0034
Moon	18745-11-02 04:19 G	8567835.46	8567835.68	8567835.90	0.0088	0.0048
Earth	18745-11-02 06:57 G	8567835.59	8567835.79	8567836.04	0.0088	0.0045 *
Venus	18745-12-31 04:48 G	8567894.49	8567894.70	8567894.93	0.0088	0.0015
Venus	18746-08-13 17:45 G	8568120.02	8568120.24	8568120.46	0.0088	0.0006
Earth	18746-11-04 17:16 G	8568203.02	8568203.22	8568203.46	0.0088	0.0044
Moon	18746-11-04 21:21 G	8568203.16	8568203.39	8568203.62	0.0088	0.0040 *
Venus	18747-03-27 06:28 G	8568345.57	8568345.77	8568345.99	0.0088	0.0025
Moon	18747-11-07 00:43 G	8568570.32	8568570.53	8568570.75	0.0088	0.0046
Earth	18747-11-07 03:50 G	8568570.45	8568570.66	8568570.90	0.0088	0.0042 *
Venus	18747-11-07 19:12 G	8568571.12	8568571.30	8568571.49	0.0088	0.0045
Venus	18748-06-20 07:40 G	8568796.68	8568796.82	8568796.98	0.0088	0.0064
Earth	18748-11-08 14:09 G	8568937.88	8568938.09	8568938.33	0.0088	0.0041
Moon	18748-11-08 17:16 G	8568938.01	8568938.22	8568938.48	0.0088	0.0038 *
Venus	18749-01-31 20:38 G	8569022.30	8569022.36	8569022.43	0.0088	0.0084
Moon	18749-11-10 22:48 G	8569305.24	8569305.45	8569305.68	0.0088	0.0043
Earth	18749-11-11 00:57 G	8569305.31	8569305.54	8569305.76	0.0088	0.0040 *
Earth	18750-11-13 11:02 G	8569672.73	8569672.96	8569673.19	0.0088	0.0039
Moon	18750-11-13 11:45 G	8569672.76	8569672.99	8569673.25	0.0088	0.0035 *
Mercury	18751-03-05 00:43 G	8569784.49	8569784.53	8569784.58	0.0088	0.0083
Mercury	18751-06-01 02:24 G	8569872.54	8569872.60	8569872.69	0.0088	0.0076
Mercury	18751-08-28 04:19 G	8569960.60	8569960.68	8569960.79	0.0088	0.0069
Earth	18751-11-15 21:07 G	8570040.16	8570040.38	8570040.63	0.0088	0.0037
Moon	18751-11-15 21:07 G	8570040.18	8570040.38	8570040.62	0.0088	0.0042 *
Mercury	18751-11-24 06:28 G	8570048.67	8570048.77	8570048.88	0.0088	0.0061
Mercury	18752-02-20 08:09 G	8570136.74	8570136.84	8570136.98	0.0088	0.0054

Mercury	18752-05-18 10:19 G	8570224.81	8570224.93	8570225.07	0.0088	0.0046
Mercury	18752-08-14 12:14 G	8570312.88	8570313.01	8570313.16	0.0088	0.0039
Mercury	18752-11-10 14:24 G	8570400.96	8570401.10	8570401.25	0.0088	0.0031
Moon	18752-11-17 05:45 G	8570407.50	8570407.74	8570407.99	0.0088	0.0032
Earth	18752-11-17 07:26 G	8570407.59	8570407.81	8570408.06	0.0088	0.0036 *
Mercury	18753-02-06 16:19 G	8570489.04	8570489.18	8570489.33	0.0088	0.0024
Mercury	18753-05-05 18:28 G	8570577.12	8570577.27	8570577.42	0.0088	0.0016
Mercury	18753-08-01 20:24 G	8570665.20	8570665.35	8570665.51	0.0088	0.0008
Mercury	18753-10-28 22:19 G	8570753.28	8570753.43	8570753.59	0.0088	0.0003
Earth	18753-11-19 18:00 G	8570775.02	8570775.25	8570775.49	0.0088	0.0034
Moon	18753-11-19 20:09 G	8570775.13	8570775.34	8570775.58	0.0088	0.0038 *
Mercury	18754-01-25 00:28 G	8570841.36	8570841.52	8570841.67	0.0088	0.0007
Mercury	18754-04-23 02:24 G	8570929.45	8570929.60	8570929.76	0.0088	0.0015
Mercury	18754-07-20 04:33 G	8571017.54	8571017.69	8571017.84	0.0088	0.0022
Mercury	18754-10-16 06:28 G	8571105.63	8571105.77	8571105.92	0.0088	0.0030
Moon	18754-11-22 00:43 G	8571142.30	8571142.53	8571142.79	0.0088	0.0029
Earth	18754-11-22 04:04 G	8571142.45	8571142.67	8571142.92	0.0088	0.0033 *
Mercury	18755-01-12 08:24 G	8571193.72	8571193.85	8571194.00	0.0088	0.0038
Mercury	18755-04-10 10:33 G	8571281.81	8571281.94	8571282.08	0.0088	0.0046
Mercury	18755-07-07 12:28 G	8571369.91	8571370.02	8571370.16	0.0088	0.0054
Mercury	18755-10-03 14:52 G	8571458.01	8571458.12	8571458.23	0.0088	0.0061
Earth	18755-11-24 14:38 G	8571509.87	8571510.11	8571510.35	0.0088	0.0031
Moon	18755-11-24 18:00 G	8571510.03	8571510.25	8571510.50	0.0088	0.0035 *
Mercury	18755-12-30 16:48 G	8571546.11	8571546.20	8571546.30	0.0088	0.0069
Mercury	18756-03-27 18:57 G	8571634.22	8571634.29	8571634.37	0.0088	0.0077
Mercury	18756-06-23 20:52 G	8571722.35	8571722.37	8571722.42	0.0088	0.0085
Moon	18756-11-25 21:36 G	8571877.17	8571877.40	8571877.65	0.0088	0.0026
Earth	18756-11-26 00:57 G	8571877.31	8571877.54	8571877.79	0.0088	0.0030 *
Earth	18757-11-28 11:02 G	8572244.72	8572244.96	8572245.21	0.0088	0.0028
Moon	18757-11-28 13:40 G	8572244.85	8572245.07	8572245.33	0.0088	0.0033 *

Moon	18758-11-30 19:55 G	8572612.09	8572612.33	8572612.57	0.0088	0.0023
Earth	18758-11-30 21:07 G	8572612.15	8572612.38	8572612.64	0.0088	0.0027 *
Earth	18759-12-03 07:26 G	8572979.57	8572979.81	8572980.06	0.0088	0.0025
Moon	18759-12-03 07:55 G	8572979.59	8572979.83	8572980.09	0.0088	0.0029 *
Earth	18760-12-04 17:16 G	8573346.99	8573347.22	8573347.48	0.0088	0.0024
Moon	18760-12-04 18:00 G	8573347.02	8573347.25	8573347.50	0.0088	0.0020 *
Moon	18761-12-07 01:26 G	8573714.31	8573714.56	8573714.82	0.0088	0.0025
Earth	18761-12-07 03:36 G	8573714.41	8573714.65	8573714.91	0.0088	0.0022 *
Earth	18762-12-09 13:55 G	8574081.83	8574082.08	8574082.33	0.0088	0.0020
Moon	18762-12-09 16:33 G	8574081.95	8574082.19	8574082.44	0.0088	0.0016 *
Moon	18763-12-11 20:24 G	8574449.11	8574449.35	8574449.61	0.0088	0.0023
Earth	18763-12-12 00:14 G	8574449.26	8574449.51	8574449.76	0.0088	0.0018 *
Earth	18764-12-13 10:04 G	8574816.68	8574816.92	8574817.19	0.0088	0.0017
Moon	18764-12-13 13:40 G	8574816.83	8574817.07	8574817.34	0.0088	0.0013 *
Moon	18765-12-15 17:16 G	8575183.99	8575184.22	8575184.48	0.0088	0.0019
Earth	18765-12-15 20:24 G	8575184.11	8575184.35	8575184.62	0.0088	0.0015 *
Earth	18766-12-18 06:57 G	8575551.54	8575551.79	8575552.05	0.0088	0.0013
Moon	18766-12-18 09:36 G	8575551.64	8575551.90	8575552.17	0.0088	0.0009 *
Moon	18767-12-20 16:19 G	8575918.94	8575919.18	8575919.43	0.0088	0.0015
Earth	18767-12-20 17:16 G	8575918.97	8575919.22	8575919.48	0.0088	0.0011 *
Earth	18768-12-22 03:36 G	8576286.40	8576286.65	8576286.91	0.0088	0.0009
Moon	18768-12-22 03:50 G	8576286.40	8576286.66	8576286.93	0.0088	0.0005 *
Earth	18769-12-24 13:55 G	8576653.83	8576654.08	8576654.34	0.0088	0.0008
Moon	18769-12-24 14:52 G	8576653.88	8576654.12	8576654.38	0.0088	0.0012 *
Moon	18770-12-26 21:50 G	8577021.14	8577021.41	8577021.67	0.0088	0.0002
Earth	18770-12-27 00:14 G	8577021.26	8577021.51	8577021.77	0.0088	0.0006 *
Earth	18771-12-29 10:33 G	8577388.69	8577388.94	8577389.20	0.0088	0.0004
Moon	18771-12-29 13:26 G	8577388.82	8577389.06	8577389.32	0.0088	0.0008 *
Moon	18772-12-30 17:31 G	8577755.97	8577756.23	8577756.49	0.0088	0.0003
Earth	18772-12-30 21:07 G	8577756.12	8577756.38	8577756.64	0.0088	0.0002 *

Earth	18774-01-02 07:12 G	8578123.55	8578123.80	8578124.06	0.0088	0.0002
Moon	18774-01-02 10:48 G	8578123.69	8578123.95	8578124.21	0.0088	0.0004 *
Moon	18775-01-04 14:52 G	8578490.87	8578491.12	8578491.37	0.0088	0.0006
Earth	18775-01-04 17:45 G	8578490.99	8578491.24	8578491.50	0.0088	0.0002 *
Earth	18776-01-07 04:04 G	8578858.42	8578858.67	8578858.93	0.0088	0.0004
Moon	18776-01-07 06:28 G	8578858.51	8578858.77	8578859.04	0.0088	0.0001 *
Moon	18777-01-08 13:55 G	8579225.84	8579226.08	8579226.33	0.0088	0.0010
Earth	18777-01-08 14:38 G	8579225.85	8579226.11	8579226.36	0.0088	0.0006 *
Moon	18778-01-11 00:57 G	8579593.27	8579593.54	8579593.81	0.0088	0.0004
Earth	18778-01-11 00:57 G	8579593.29	8579593.54	8579593.80	0.0088	0.0008 *
Earth	18779-01-13 11:31 G	8579960.73	8579960.98	8579961.25	0.0088	0.0010
Moon	18779-01-13 13:12 G	8579960.80	8579961.05	8579961.30	0.0088	0.0014 *
Moon	18780-01-15 19:26 G	8580328.05	8580328.31	8580328.58	0.0088	0.0007
Earth	18780-01-15 22:19 G	8580328.18	8580328.43	8580328.69	0.0088	0.0012 *
Earth	18781-01-17 09:07 G	8580695.62	8580695.88	8580696.13	0.0088	0.0013
Moon	18781-01-17 12:00 G	8580695.76	8580696.00	8580696.26	0.0088	0.0018 *
Moon	18782-01-19 15:50 G	8581062.92	8581063.16	8581063.43	0.0088	0.0011
Earth	18782-01-19 19:55 G	8581063.07	8581063.33	8581063.58	0.0088	0.0015 *
Earth	18783-01-22 06:14 G	8581430.52	8581430.76	8581431.03	0.0088	0.0017
Moon	18783-01-22 09:50 G	8581430.66	8581430.91	8581431.16	0.0088	0.0021 *
Moon	18784-01-24 14:24 G	8581797.86	8581798.10	8581798.36	0.0088	0.0015
Earth	18784-01-24 17:02 G	8581797.97	8581798.21	8581798.48	0.0088	0.0019 *
Earth	18785-01-26 03:50 G	8582165.41	8582165.66	8582165.91	0.0088	0.0020
Moon	18785-01-26 05:45 G	8582165.49	8582165.74	8582166.00	0.0088	0.0025 *
Earth	18786-01-28 14:38 G	8582532.86	8582533.11	8582533.36	0.0088	0.0022
Moon	18786-01-28 14:09 G	8582532.86	8582533.09	8582533.35	0.0088	0.0018 *
Moon	18787-01-31 00:43 G	8582900.29	8582900.53	8582900.80	0.0088	0.0028
Earth	18787-01-31 01:12 G	8582900.32	8582900.55	8582900.81	0.0088	0.0024 *
Earth	18788-02-02 12:14 G	8583267.77	8583268.01	8583268.26	0.0088	0.0025
Moon	18788-02-02 13:55 G	8583267.84	8583268.08	8583268.33	0.0088	0.0021 *

Moon	18789-02-03 19:55 G	8583635.09	8583635.33	8583635.59	0.0088	0.0031
Earth	18789-02-03 23:02 G	8583635.22	8583635.46	8583635.72	0.0088	0.0027 *
Earth	18790-02-06 09:36 G	8584002.68	8584002.90	8584003.17	0.0088	0.0029
Moon	18790-02-06 13:12 G	8584002.81	8584003.05	8584003.30	0.0088	0.0024 *
Moon	18791-02-08 17:02 G	8584369.99	8584370.21	8584370.47	0.0088	0.0035
Earth	18791-02-08 20:52 G	8584370.14	8584370.37	8584370.63	0.0088	0.0030 *
Earth	18792-02-11 08:24 G	8584737.61	8584737.85	8584738.09	0.0088	0.0031
Moon	18792-02-11 11:16 G	8584737.73	8584737.97	8584738.23	0.0088	0.0027 *
Moon	18793-02-12 16:33 G	8585104.97	8585105.19	8585105.43	0.0088	0.0037
Earth	18793-02-12 19:12 G	8585105.07	8585105.30	8585105.55	0.0088	0.0033 *
Earth	18794-02-15 06:43 G	8585472.54	8585472.78	8585473.02	0.0088	0.0034
Moon	18794-02-15 08:09 G	8585472.61	8585472.84	8585473.11	0.0088	0.0030 *
Earth	18795-02-17 17:45 G	8585840.02	8585840.24	8585840.49	0.0088	0.0036
Moon	18795-02-17 17:45 G	8585840.03	8585840.24	8585840.48	0.0088	0.0040 *
Moon	18796-02-20 04:19 G	8586207.45	8586207.68	8586207.94	0.0088	0.0033
Earth	18796-02-20 05:02 G	8586207.49	8586207.71	8586207.96	0.0088	0.0037 *
Earth	18797-02-21 16:19 G	8586574.96	8586575.18	8586575.43	0.0088	0.0038
Moon	18797-02-21 18:14 G	8586575.06	8586575.26	8586575.50	0.0088	0.0043 *
Moon	18798-02-24 00:28 G	8586942.29	8586942.52	8586942.78	0.0088	0.0035
Earth	18798-02-24 03:50 G	8586942.44	8586942.66	8586942.90	0.0088	0.0039 *
Earth	18799-02-26 15:07 G	8587309.91	8587310.13	8587310.37	0.0088	0.0041
Moon	18799-02-26 18:43 G	8587310.06	8587310.28	8587310.50	0.0088	0.0045 *
Moon	18800-02-28 22:48 G	8587677.23	8587677.45	8587677.70	0.0088	0.0037
Earth	18800-02-29 02:38 G	8587677.39	8587677.61	8587677.85	0.0088	0.0042 *
Earth	18801-03-02 13:55 G	8588044.87	8588045.08	8588045.32	0.0088	0.0043
Moon	18801-03-02 16:48 G	8588045.00	8588045.20	8588045.45	0.0088	0.0047 *
Mars	18801-09-10 20:09 G	8588237.27	8588237.34	8588237.48	0.0088	0.0084
Moon	18802-03-04 23:02 G	8588412.25	8588412.46	8588412.70	0.0088	0.0040
Earth	18802-03-05 01:40 G	8588412.36	8588412.57	8588412.81	0.0088	0.0044 *
Earth	18803-03-07 13:12 G	8588779.84	8588780.05	8588780.29	0.0088	0.0045



Moon	18803-03-07 15:07 G	8588779.91	8588780.13	8588780.36	0.0088	0.0049 *
Mars	18803-08-07 06:00 G	8588932.42	8588932.75	8588933.07	0.0088	0.0002
Earth	18804-03-09 00:57 G	8589147.33	8589147.54	8589147.78	0.0088	0.0046
Moon	18804-03-09 00:57 G	8589147.34	8589147.54	8589147.78	0.0088	0.0042 *
Moon	18805-03-11 12:14 G	8589514.80	8589515.01	8589515.24	0.0088	0.0050
Earth	18805-03-11 12:43 G	8589514.83	8589515.03	8589515.27	0.0088	0.0046 *
Mars	18805-07-02 11:31 G	8589627.94	8589627.98	8589628.07	0.0088	0.0087
Earth	18806-03-14 00:57 G	8589882.33	8589882.54	8589882.77	0.0088	0.0047
Moon	18806-03-14 03:07 G	8589882.42	8589882.63	8589882.86	0.0088	0.0043 *
Moon	18807-03-16 09:50 G	8590249.71	8590249.91	8590250.14	0.0088	0.0052
Earth	18807-03-16 12:43 G	8590249.84	8590250.03	8590250.27	0.0088	0.0048 *
Earth	18808-03-18 01:12 G	8590617.34	8590617.55	8590617.77	0.0088	0.0048
Moon	18808-03-18 04:04 G	8590617.47	8590617.67	8590617.91	0.0088	0.0045 *
Moon	18809-03-20 09:07 G	8590984.69	8590984.88	8590985.11	0.0088	0.0053
Earth	18809-03-20 12:43 G	8590984.84	8590985.03	8590985.27	0.0088	0.0049 *
Earth	18810-03-23 01:12 G	8591352.34	8591352.55	8591352.77	0.0088	0.0049
Moon	18810-03-23 04:04 G	8591352.46	8591352.67	8591352.92	0.0088	0.0045 *
Moon	18811-03-25 10:33 G	8591719.75	8591719.94	8591720.16	0.0089	0.0053
Earth	18811-03-25 13:26 G	8591719.85	8591720.06	8591720.28	0.0089	0.0049 *
Earth	18812-03-27 00:57 G	8592087.35	8592087.54	8592087.78	0.0089	0.0050
Moon	18812-03-27 02:38 G	8592087.41	8592087.61	8592087.86	0.0089	0.0046 *
Earth	18813-03-29 13:12 G	8592454.86	8592455.05	8592455.29	0.0089	0.0050
Moon	18813-03-29 13:40 G	8592454.87	8592455.07	8592455.27	0.0089	0.0053 *
Moon	18814-04-01 01:26 G	8592822.34	8592822.56	8592822.79	0.0089	0.0046
Earth	18814-04-01 01:40 G	8592822.37	8592822.57	8592822.80	0.0089	0.0050 *
Earth	18815-04-03 13:55 G	8593189.89	8593190.08	8593190.32	0.0089	0.0050
Moon	18815-04-03 15:50 G	8593189.99	8593190.16	8593190.39	0.0089	0.0054 *
Moon	18816-04-04 23:31 G	8593557.27	8593557.48	8593557.72	0.0089	0.0046
Earth	18816-04-05 02:24 G	8593557.41	8593557.60	8593557.84	0.0089	0.0050 *
Earth	18817-04-07 15:21 G	8593924.92	8593925.14	8593925.35	0.0089	0.0049

Moon	18817-04-07 18:28 G	8593925.07	8593925.27	8593925.48	0.0089	0.0052 *
Moon	18818-04-09 23:45 G	8594292.29	8594292.49	8594292.73	0.0089	0.0046
Earth	18818-04-10 03:50 G	8594292.45	8594292.66	8594292.89	0.0089	0.0049 *
Earth	18819-04-12 16:19 G	8594659.98	8594660.18	8594660.41	0.0089	0.0049
Moon	18819-04-12 19:26 G	8594660.12	8594660.31	8594660.54	0.0089	0.0052 *
Moon	18820-04-14 02:09 G	8595027.39	8595027.59	8595027.82	0.0089	0.0046
Earth	18820-04-14 04:48 G	8595027.51	8595027.70	8595027.94	0.0089	0.0049 *
Earth	18821-04-16 17:45 G	8595395.03	8595395.24	8595395.47	0.0089	0.0048
Moon	18821-04-16 19:26 G	8595395.11	8595395.31	8595395.55	0.0089	0.0051 *
Moon	18822-04-19 06:00 G	8595762.55	8595762.75	8595762.98	0.0089	0.0045
Earth	18822-04-19 06:14 G	8595762.57	8595762.76	8595763.00	0.0089	0.0048 *
Moon	18823-04-21 18:43 G	8596130.07	8596130.28	8596130.52	0.0089	0.0049
Earth	18823-04-21 18:57 G	8596130.09	8596130.29	8596130.53	0.0089	0.0047 *
Earth	18824-04-23 07:55 G	8596497.62	8596497.83	8596498.06	0.0089	0.0046
Moon	18824-04-23 09:36 G	8596497.70	8596497.90	8596498.14	0.0089	0.0044 *
Moon	18825-04-25 17:45 G	8596865.03	8596865.24	8596865.48	0.0089	0.0048
Earth	18825-04-25 20:52 G	8596865.15	8596865.37	8596865.59	0.0089	0.0045 *
Earth	18826-04-28 09:07 G	8597232.68	8597232.88	8597233.13	0.0089	0.0045
Moon	18826-04-28 12:28 G	8597232.81	8597233.02	8597233.26	0.0089	0.0043 *
Venus	18826-11-21 15:07 G	8597440.10	8597440.13	8597440.18	0.0089	0.0087
Moon	18827-04-30 18:28 G	8597600.06	8597600.27	8597600.50	0.0089	0.0046
Earth	18827-04-30 22:04 G	8597600.21	8597600.42	8597600.67	0.0089	0.0044 *
Venus	18827-07-05 04:19 G	8597665.55	8597665.68	8597665.83	0.0089	0.0067
Venus	18828-02-15 17:31 G	8597891.06	8597891.23	8597891.43	0.0089	0.0047
Earth	18828-05-02 10:48 G	8597967.74	8597967.95	8597968.19	0.0089	0.0043
Moon	18828-05-02 14:24 G	8597967.87	8597968.10	8597968.34	0.0089	0.0041 *
Venus	18828-09-28 06:43 G	8598116.59	8598116.78	8598117.01	0.0089	0.0027
Moon	18829-05-04 20:52 G	8598335.16	8598335.37	8598335.61	0.0089	0.0043
Earth	18829-05-05 00:00 G	8598335.28	8598335.50	8598335.74	0.0089	0.0042 *
Venus	18829-05-11 20:09 G	8598342.12	8598342.34	8598342.56	0.0089	0.0007

Venus	18829-12-23 09:07 G	8598567.67	8598567.88	8598568.11	0.0089	0.0014
Earth	18830-05-07 12:57 G	8598702.82	8598703.04	8598703.28	0.0089	0.0041
Moon	18830-05-07 15:07 G	8598702.90	8598703.13	8598703.38	0.0089	0.0039 *
Venus	18830-08-05 22:19 G	8598793.24	8598793.43	8598793.65	0.0089	0.0034
Venus	18831-03-19 11:45 G	8599018.83	8599018.99	8599019.17	0.0089	0.0054
Moon	18831-05-10 01:12 G	8599070.34	8599070.55	8599070.79	0.0089	0.0041
Earth	18831-05-10 01:55 G	8599070.37	8599070.58	8599070.83	0.0089	0.0040 *
Venus	18831-10-31 00:57 G	8599244.43	8599244.54	8599244.67	0.0089	0.0075
Moon	18832-05-11 15:07 G	8599437.90	8599438.13	8599438.39	0.0089	0.0038
Earth	18832-05-11 14:52 G	8599437.91	8599438.12	8599438.38	0.0089	0.0040 *
Earth	18833-05-14 04:19 G	8599805.46	8599805.68	8599805.93	0.0089	0.0038
Moon	18833-05-14 06:14 G	8599805.54	8599805.76	8599805.99	0.0089	0.0039 *
Moon	18834-05-16 14:52 G	8600172.89	8600173.12	8600173.38	0.0089	0.0035
Earth	18834-05-16 17:31 G	8600173.00	8600173.23	8600173.48	0.0089	0.0036 *
Mercury	18834-06-01 20:24 G	8600189.31	8600189.35	8600189.41	0.0089	0.0084
Mercury	18834-08-28 22:33 G	8600277.37	8600277.44	8600277.54	0.0089	0.0076
Mercury	18834-11-25 01:12 G	8600365.45	8600365.55	8600365.66	0.0089	0.0067
Mercury	18835-02-21 03:21 G	8600453.53	8600453.64	8600453.77	0.0089	0.0059
Earth	18835-05-19 06:43 G	8600540.55	8600540.78	8600541.02	0.0089	0.0035
Moon	18835-05-19 09:50 G	8600540.68	8600540.91	8600541.15	0.0089	0.0035 *
Mercury	18835-05-20 06:00 G	8600541.62	8600541.75	8600541.88	0.0089	0.0050
Mercury	18835-08-16 08:09 G	8600629.71	8600629.84	8600629.99	0.0089	0.0042
Mercury	18835-11-12 10:19 G	8600717.79	8600717.93	8600718.09	0.0089	0.0035
Mercury	18836-02-08 12:57 G	8600805.89	8600806.04	8600806.19	0.0089	0.0025
Mercury	18836-05-06 15:07 G	8600893.98	8600894.13	8600894.29	0.0089	0.0017
Moon	18836-05-20 15:50 G	8600907.93	8600908.16	8600908.41	0.0089	0.0033
Earth	18836-05-20 19:40 G	8600908.09	8600908.32	8600908.57	0.0089	0.0033 *
Mercury	18836-08-02 17:31 G	8600982.07	8600982.23	8600982.39	0.0089	0.0009
Mercury	18836-10-29 19:40 G	8601070.16	8601070.32	8601070.49	0.0089	0.0003
Mercury	18837-01-25 22:04 G	8601158.26	8601158.42	8601158.58	0.0089	0.0008

Mercury	18837-04-24 00:14 G	8601246.36	8601246.51	8601246.67	0.0089	0.0016
Earth	18837-05-23 08:24 G	8601275.63	8601275.85	8601276.11	0.0089	0.0033
Moon	18837-05-23 12:00 G	8601275.77	8601276.00	8601276.26	0.0089	0.0032 *
Mercury	18837-07-21 02:24 G	8601334.45	8601334.60	8601334.76	0.0089	0.0024
Mercury	18837-10-17 04:33 G	8601422.55	8601422.69	8601422.85	0.0089	0.0032
Mercury	18838-01-13 06:43 G	8601510.65	8601510.78	8601510.93	0.0089	0.0041
Mercury	18838-04-11 08:52 G	8601598.75	8601598.87	8601599.02	0.0089	0.0049
Moon	18838-05-25 18:28 G	8601643.04	8601643.27	8601643.52	0.0089	0.0031
Earth	18838-05-25 21:50 G	8601643.18	8601643.41	8601643.67	0.0089	0.0031 *
Mercury	18838-07-08 11:02 G	8601686.85	8601686.96	8601687.10	0.0089	0.0057
Mercury	18838-10-04 13:12 G	8601774.96	8601775.05	8601775.17	0.0089	0.0065
Mercury	18838-12-31 15:21 G	8601863.06	8601863.14	8601863.25	0.0089	0.0073
Mercury	18839-03-29 17:31 G	8601951.18	8601951.23	8601951.31	0.0089	0.0080
Earth	18839-05-28 10:33 G	8602010.71	8602010.94	8602011.21	0.0089	0.0030
Moon	18839-05-28 13:12 G	8602010.80	8602011.05	8602011.31	0.0089	0.0029 *
Mercury	18839-06-25 19:40 G	8602039.31	8602039.32	8602039.36	0.0089	0.0088
Moon	18840-05-29 22:33 G	8602378.22	8602378.44	8602378.70	0.0089	0.0029
Earth	18840-05-30 00:00 G	8602378.26	8602378.50	8602378.76	0.0089	0.0027 *
Earth	18841-06-01 13:12 G	8602745.81	8602746.05	8602746.31	0.0089	0.0026
Moon	18841-06-01 13:40 G	8602745.82	8602746.07	8602746.33	0.0089	0.0025 *
Earth	18842-06-04 02:38 G	8603113.36	8603113.61	8603113.86	0.0089	0.0024
Moon	18842-06-04 03:50 G	8603113.43	8603113.66	8603113.91	0.0089	0.0024 *
Moon	18843-06-06 13:40 G	8603480.82	8603481.07	8603481.33	0.0089	0.0021
Earth	18843-06-06 15:36 G	8603480.91	8603481.15	8603481.42	0.0089	0.0023 *
Jupiter	18844-03-30 18:14 G	8603778.75	8603779.26	8603779.78	0.0089	0.0013
Earth	18844-06-08 05:02 G	8603848.46	8603848.71	8603848.97	0.0089	0.0020
Moon	18844-06-08 07:40 G	8603848.59	8603848.82	8603849.08	0.0089	0.0023 *
Moon	18845-06-10 14:52 G	8604215.87	8604216.12	8604216.38	0.0089	0.0018
Earth	18845-06-10 18:28 G	8604216.02	8604216.27	8604216.53	0.0089	0.0019 *
Earth	18846-06-13 07:40 G	8604583.57	8604583.82	8604584.08	0.0089	0.0017

Moon	18846-06-13 11:16 G	8604583.72	8604583.97	8604584.23	0.0089	0.0019 *
Moon	18847-06-15 17:31 G	8604950.98	8604951.23	8604951.48	0.0089	0.0013
Earth	18847-06-15 20:38 G	8604951.12	8604951.36	8604951.63	0.0089	0.0016 *
Earth	18848-06-17 09:50 G	8605318.66	8605318.91	8605319.18	0.0089	0.0013
Moon	18848-06-17 12:28 G	8605318.76	8605319.02	8605319.29	0.0089	0.0015 *
Moon	18849-06-19 21:21 G	8605686.15	8605686.39	8605686.65	0.0089	0.0010
Earth	18849-06-19 23:02 G	8605686.21	8605686.46	8605686.73	0.0089	0.0012 *
Earth	18850-06-22 12:14 G	8606053.76	8606054.01	8606054.27	0.0089	0.0009
Moon	18850-06-22 12:57 G	8606053.78	8606054.04	8606054.31	0.0089	0.0012 *
Earth	18851-06-25 01:12 G	8606421.30	8606421.55	8606421.82	0.0089	0.0008
Moon	18851-06-25 02:24 G	8606421.35	8606421.60	8606421.85	0.0089	0.0005 *
Moon	18852-06-26 12:43 G	8606788.76	8606789.03	8606789.29	0.0089	0.0008
Earth	18852-06-26 14:24 G	8606788.84	8606789.10	8606789.36	0.0089	0.0005 *
Earth	18853-06-29 03:36 G	8607156.39	8607156.65	8607156.91	0.0089	0.0004
Moon	18853-06-29 06:14 G	8607156.51	8607156.76	8607157.01	0.0089	0.0001 *
Moon	18854-07-01 12:57 G	8607523.79	8607524.04	8607524.31	0.0089	0.0005
Earth	18854-07-01 16:48 G	8607523.94	8607524.20	8607524.46	0.0089	0.0002 *
Earth	18855-07-04 05:31 G	8607891.47	8607891.73	8607891.99	0.0089	0.0001
Moon	18855-07-04 09:07 G	8607891.62	8607891.88	8607892.14	0.0089	0.0004 *
Moon	18856-07-05 15:07 G	8608258.88	8608259.13	8608259.39	0.0089	0.0002
Earth	18856-07-05 18:43 G	8608259.03	8608259.28	8608259.54	0.0089	0.0003 *
Earth	18857-07-08 07:55 G	8608626.57	8608626.83	8608627.09	0.0089	0.0004
Moon	18857-07-08 10:33 G	8608626.68	8608626.94	8608627.21	0.0089	0.0007 *
Moon	18858-07-10 18:57 G	8608994.04	8608994.29	8608994.54	0.0089	0.0003
Earth	18858-07-10 20:52 G	8608994.12	8608994.37	8608994.63	0.0089	0.0006 *
Earth	18859-07-13 09:50 G	8609361.66	8609361.91	8609362.17	0.0089	0.0008
Moon	18859-07-13 10:48 G	8609361.69	8609361.95	8609362.22	0.0089	0.0012 *
Earth	18860-07-14 22:48 G	8609729.19	8609729.45	8609729.71	0.0089	0.0010
Moon	18860-07-14 23:16 G	8609729.23	8609729.47	8609729.72	0.0089	0.0007 *
Moon	18861-07-17 10:04 G	8610096.66	8610096.92	8610097.19	0.0089	0.0015

Earth	18861-07-17 11:31 G	8610096.73	8610096.98	8610097.24	0.0089	0.0012 *
Earth	18862-07-20 00:14 G	8610464.26	8610464.51	8610464.77	0.0089	0.0014
Moon	18862-07-20 02:38 G	8610464.36	8610464.61	8610464.87	0.0089	0.0010 *
Moon	18863-07-22 09:21 G	8610831.64	8610831.89	8610832.15	0.0089	0.0019
Earth	18863-07-22 12:43 G	8610831.78	8610832.03	8610832.29	0.0089	0.0015 *
Earth	18864-07-24 01:12 G	8611199.31	8611199.55	8611199.81	0.0089	0.0017
Moon	18864-07-24 04:48 G	8611199.45	8611199.70	8611199.96	0.0089	0.0013 *
Moon	18865-07-26 10:19 G	8611566.69	8611566.93	8611567.19	0.0089	0.0023
Earth	18865-07-26 14:09 G	8611566.84	8611567.09	8611567.34	0.0089	0.0019 *
Earth	18866-07-29 02:24 G	8611934.36	8611934.60	8611934.86	0.0089	0.0021
Moon	18866-07-29 05:16 G	8611934.47	8611934.72	8611934.99	0.0089	0.0017 *
Moon	18867-07-31 12:43 G	8612301.80	8612302.03	8612302.28	0.0089	0.0027
Earth	18867-07-31 14:52 G	8612301.89	8612302.12	8612302.39	0.0089	0.0023 *
Earth	18868-08-02 03:50 G	8612669.41	8612669.66	8612669.91	0.0089	0.0024
Moon	18868-08-02 04:48 G	8612669.45	8612669.70	8612669.97	0.0089	0.0020 *
Earth	18869-08-04 16:19 G	8613036.94	8613037.18	8613037.43	0.0089	0.0025
Moon	18869-08-04 16:33 G	8613036.97	8613037.19	8613037.44	0.0089	0.0030 *
Moon	18870-08-07 04:04 G	8613404.41	8613404.67	8613404.92	0.0089	0.0023
Earth	18870-08-07 04:48 G	8613404.47	8613404.70	8613404.96	0.0089	0.0027 *
Earth	18871-08-09 17:16 G	8613771.98	8613772.22	8613772.47	0.0089	0.0029
Moon	18871-08-09 19:26 G	8613772.09	8613772.31	8613772.56	0.0089	0.0034 *
Moon	18872-08-11 02:38 G	8614139.36	8614139.61	8614139.86	0.0089	0.0026
Earth	18872-08-11 05:31 G	8614139.50	8614139.73	8614139.99	0.0089	0.0030 *
Earth	18873-08-13 17:45 G	8614507.01	8614507.24	8614507.50	0.0089	0.0032
Moon	18873-08-13 21:07 G	8614507.16	8614507.38	8614507.63	0.0089	0.0036 *
Moon	18874-08-16 02:09 G	8614874.37	8614874.59	8614874.85	0.0089	0.0029
Earth	18874-08-16 06:14 G	8614874.52	8614874.76	8614875.00	0.0089	0.0033 *
Earth	18875-08-18 18:00 G	8615242.03	8615242.25	8615242.50	0.0089	0.0034
Moon	18875-08-18 20:52 G	8615242.15	8615242.37	8615242.62	0.0089	0.0039 *
Moon	18876-08-20 03:36 G	8615609.43	8615609.65	8615609.90	0.0089	0.0032

Earth	18876-08-20 06:14 G	8615609.53	8615609.76	8615610.01	0.0089	0.0035 *
Earth	18877-08-22 18:14 G	8615977.03	8615977.26	8615977.50	0.0089	0.0037
Moon	18877-08-22 19:12 G	8615977.08	8615977.30	8615977.55	0.0089	0.0042 *
Earth	18878-08-25 06:00 G	8616344.53	8616344.75	8616345.00	0.0089	0.0038
Moon	18878-08-25 06:28 G	8616344.55	8616344.77	8616345.01	0.0089	0.0034 *
Moon	18879-08-27 16:48 G	8616711.99	8616712.20	8616712.45	0.0089	0.0044
Earth	18879-08-27 17:45 G	8616712.03	8616712.24	8616712.49	0.0089	0.0039 *
Earth	18880-08-29 05:45 G	8617079.53	8617079.74	8617079.99	0.0089	0.0040
Moon	18880-08-29 08:24 G	8617079.63	8617079.85	8617080.09	0.0089	0.0035 *
Moon	18881-08-31 14:38 G	8617446.90	8617447.11	8617447.35	0.0089	0.0045
Earth	18881-08-31 17:45 G	8617447.03	8617447.24	8617447.49	0.0089	0.0041 *
Earth	18882-09-03 05:31 G	8617814.52	8617814.73	8617814.98	0.0089	0.0042
Moon	18882-09-03 09:07 G	8617814.66	8617814.88	8617815.12	0.0089	0.0037 *
Mars	18883-05-26 16:19 G	8618079.98	8618080.18	8618080.42	0.0089	0.0061
Moon	18883-09-05 14:09 G	8618181.88	8618182.09	8618182.31	0.0089	0.0047
Earth	18883-09-05 17:45 G	8618182.02	8618182.24	8618182.48	0.0089	0.0042 *
Earth	18884-09-07 05:31 G	8618549.52	8618549.73	8618549.96	0.0089	0.0043
Moon	18884-09-07 08:09 G	8618549.63	8618549.84	8618550.10	0.0089	0.0039 *
Mars	18885-04-19 21:36 G	8618774.12	8618774.40	8618774.71	0.0089	0.0019
Moon	18885-09-09 14:38 G	8618916.91	8618917.11	8618917.33	0.0089	0.0048
Earth	18885-09-09 17:02 G	8618917.00	8618917.21	8618917.45	0.0089	0.0044 *
Earth	18886-09-12 04:48 G	8619284.48	8619284.70	8619284.93	0.0089	0.0044
Moon	18886-09-12 05:45 G	8619284.52	8619284.74	8619284.99	0.0089	0.0040 *
Earth	18887-09-14 15:50 G	8619651.96	8619652.16	8619652.40	0.0089	0.0045
Moon	18887-09-14 16:19 G	8619651.98	8619652.18	8619652.40	0.0089	0.0049 *
Moon	18888-09-16 02:24 G	8620019.38	8620019.60	8620019.85	0.0089	0.0041
Earth	18888-09-16 03:36 G	8620019.44	8620019.65	8620019.88	0.0089	0.0045 *
Earth	18889-09-18 14:38 G	8620386.91	8620387.11	8620387.35	0.0089	0.0046
Moon	18889-09-18 17:31 G	8620387.03	8620387.23	8620387.44	0.0089	0.0050 *
Moon	18890-09-20 22:48 G	8620754.24	8620754.45	8620754.69	0.0089	0.0042

Earth	18890-09-21 02:09 G	8620754.38	8620754.59	8620754.82	0.0089	0.0046	*
Earth	18891-09-23 13:26 G	8621121.85	8621122.06	8621122.28	0.0089	0.0046	
Moon	18891-09-23 16:33 G	8621122.00	8621122.19	8621122.42	0.0089	0.0051	*
Moon	18892-09-24 21:07 G	8621489.17	8621489.38	8621489.61	0.0089	0.0042	
Earth	18892-09-25 00:28 G	8621489.32	8621489.52	8621489.76	0.0089	0.0047	*
Earth	18893-09-27 11:31 G	8621856.78	8621856.98	8621857.22	0.0089	0.0047	
Moon	18893-09-27 14:24 G	8621856.91	8621857.10	8621857.33	0.0089	0.0051	*
Moon	18894-09-29 20:38 G	8622224.15	8622224.36	8622224.59	0.0089	0.0043	
Earth	18894-09-29 22:48 G	8622224.25	8622224.45	8622224.69	0.0089	0.0047	*
Earth	18895-10-02 10:04 G	8622591.72	8622591.92	8622592.15	0.0089	0.0047	
Moon	18895-10-02 11:02 G	8622591.76	8622591.96	8622592.19	0.0089	0.0051	*
Earth	18896-10-03 21:07 G	8622959.18	8622959.38	8622959.61	0.0089	0.0047	
Moon	18896-10-03 21:36 G	8622959.19	8622959.40	8622959.63	0.0089	0.0043	*
Moon	18897-10-06 07:12 G	8623326.59	8623326.80	8623327.02	0.0089	0.0050	
Earth	18897-10-06 07:55 G	8623326.64	8623326.83	8623327.07	0.0089	0.0047	*
Earth	18898-10-08 19:12 G	8623694.09	8623694.30	8623694.52	0.0089	0.0046	
Moon	18898-10-08 21:50 G	8623694.19	8623694.41	8623694.63	0.0089	0.0042	*
Moon	18899-10-11 02:38 G	8624061.41	8624061.61	8624061.84	0.0089	0.0050	
Earth	18899-10-11 05:45 G	8624061.54	8624061.74	8624061.98	0.0089	0.0046	*
Earth	18900-10-13 16:33 G	8624428.99	8624429.19	8624429.42	0.0089	0.0046	
Moon	18900-10-13 20:09 G	8624429.13	8624429.34	8624429.58	0.0089	0.0042	*
Moon	18901-10-15 23:31 G	8624796.29	8624796.48	8624796.71	0.0089	0.0050	
Earth	18901-10-16 03:21 G	8624796.43	8624796.64	8624796.87	0.0089	0.0045	*
Earth	18902-10-18 13:55 G	8625163.87	8625164.08	8625164.31	0.0088	0.0045	
Moon	18902-10-18 16:48 G	8625163.97	8625164.20	8625164.44	0.0088	0.0041	*
Moon	18903-10-20 22:19 G	8625531.24	8625531.43	8625531.66	0.0088	0.0048	
Earth	18903-10-21 00:57 G	8625531.32	8625531.54	8625531.76	0.0088	0.0044	*
Earth	18904-10-22 11:02 G	8625898.76	8625898.96	8625899.20	0.0088	0.0044	
Moon	18904-10-22 11:45 G	8625898.77	8625898.99	8625899.24	0.0088	0.0040	*
Earth	18905-10-24 21:50 G	8626266.20	8626266.41	8626266.64	0.0088	0.0043	



Moon	18905-10-24 22:19 G	8626266.24	8626266.43	8626266.66	0.0088	0.0046 *
Moon	18906-10-27 06:57 G	8626633.56	8626633.79	8626634.04	0.0088	0.0038
Earth	18906-10-27 08:09 G	8626633.64	8626633.84	8626634.09	0.0088	0.0043 *
Earth	18907-10-29 18:57 G	8627001.08	8627001.29	8627001.53	0.0088	0.0041
Moon	18907-10-29 21:36 G	8627001.21	8627001.40	8627001.64	0.0088	0.0046 *
Venus	18908-05-27 23:45 G	8627212.44	8627212.49	8627212.59	0.0088	0.0083
Moon	18908-10-31 02:24 G	8627368.38	8627368.60	8627368.85	0.0088	0.0037
Earth	18908-10-31 05:45 G	8627368.52	8627368.74	8627368.98	0.0088	0.0040 *
Venus	18909-01-08 12:57 G	8627437.90	8627438.04	8627438.20	0.0088	0.0062
Venus	18909-08-22 02:09 G	8627663.40	8627663.59	8627663.78	0.0088	0.0043
Earth	18909-11-02 16:04 G	8627735.95	8627736.17	8627736.41	0.0088	0.0039
Moon	18909-11-02 19:40 G	8627736.11	8627736.32	8627736.56	0.0088	0.0042 *
Venus	18910-04-04 14:38 G	8627888.91	8627889.11	8627889.34	0.0088	0.0024
Moon	18910-11-04 23:31 G	8628103.25	8628103.48	8628103.72	0.0088	0.0035
Earth	18910-11-05 02:38 G	8628103.39	8628103.61	8628103.85	0.0088	0.0039 *
Venus	18910-11-16 03:36 G	8628114.43	8628114.65	8628114.87	0.0088	0.0004
Venus	18911-06-29 16:19 G	8628339.97	8628340.18	8628340.40	0.0088	0.0016
Earth	18911-11-07 12:57 G	8628470.82	8628471.04	8628471.29	0.0088	0.0037
Moon	18911-11-07 15:36 G	8628470.93	8628471.15	8628471.39	0.0088	0.0040 *
Venus	18912-02-10 04:48 G	8628565.52	8628565.70	8628565.92	0.0088	0.0036
Venus	18912-09-22 17:45 G	8628791.08	8628791.24	8628791.42	0.0088	0.0056
Moon	18912-11-08 21:36 G	8628838.18	8628838.40	8628838.64	0.0088	0.0033
Earth	18912-11-08 23:16 G	8628838.25	8628838.47	8628838.72	0.0088	0.0036 *
Venus	18913-05-06 06:14 G	8629016.67	8629016.76	8629016.89	0.0088	0.0075
Earth	18913-11-11 09:36 G	8629205.68	8629205.90	8629206.15	0.0088	0.0035
Moon	18913-11-11 09:50 G	8629205.68	8629205.91	8629206.16	0.0088	0.0038 *
Earth	18914-11-13 19:40 G	8629573.10	8629573.32	8629573.58	0.0088	0.0035
Moon	18914-11-13 20:52 G	8629573.15	8629573.37	8629573.61	0.0088	0.0031 *
Mercury	18915-09-03 22:04 G	8629867.42	8629867.42	8629867.42	0.0088	0.0088
Moon	18915-11-16 04:33 G	8629940.45	8629940.69	8629940.93	0.0088	0.0035

Earth	18915-11-16 06:28 G	8629940.53	8629940.77	8629941.01	0.0088	0.0032 *
Mercury	18915-11-30 23:31 G	8629955.44	8629955.48	8629955.55	0.0088	0.0081
Mercury	18916-02-27 01:40 G	8630043.49	8630043.57	8630043.66	0.0088	0.0074
Mercury	18916-05-25 03:36 G	8630131.56	8630131.65	8630131.76	0.0088	0.0066
Mercury	18916-08-21 05:16 G	8630219.62	8630219.72	8630219.85	0.0088	0.0059
Mercury	18916-11-17 07:26 G	8630307.69	8630307.81	8630307.94	0.0088	0.0051
Earth	18916-11-17 16:33 G	8630307.96	8630308.19	8630308.44	0.0088	0.0031
Moon	18916-11-17 19:40 G	8630308.09	8630308.32	8630308.57	0.0088	0.0028 *
Mercury	18917-02-13 09:21 G	8630395.76	8630395.89	8630396.03	0.0088	0.0044
Mercury	18917-05-12 11:31 G	8630483.84	8630483.98	8630484.12	0.0088	0.0036
Mercury	18917-08-08 13:12 G	8630571.92	8630572.05	8630572.21	0.0088	0.0029
Mercury	18917-11-04 15:21 G	8630659.99	8630660.14	8630660.29	0.0088	0.0021
Moon	18917-11-19 23:16 G	8630675.25	8630675.47	8630675.72	0.0088	0.0034
Earth	18917-11-20 02:38 G	8630675.39	8630675.61	8630675.87	0.0088	0.0030 *
Mercury	18918-01-31 17:16 G	8630748.07	8630748.22	8630748.38	0.0088	0.0014
Mercury	18918-04-29 19:26 G	8630836.15	8630836.31	8630836.46	0.0088	0.0006
Mercury	18918-07-26 21:21 G	8630924.24	8630924.39	8630924.55	0.0088	0.0002
Mercury	18918-10-22 23:16 G	8631012.32	8631012.47	8631012.63	0.0088	0.0010
Earth	18918-11-22 12:57 G	8631042.81	8631043.04	8631043.30	0.0088	0.0029
Moon	18918-11-22 16:48 G	8631042.96	8631043.20	8631043.45	0.0088	0.0026 *
Mercury	18919-01-19 01:26 G	8631100.41	8631100.56	8631100.71	0.0088	0.0017
Mercury	18919-04-17 03:21 G	8631188.50	8631188.64	8631188.79	0.0088	0.0025
Mercury	18919-07-14 05:16 G	8631276.59	8631276.72	8631276.88	0.0088	0.0033
Mercury	18919-10-10 07:26 G	8631364.68	8631364.81	8631364.95	0.0088	0.0040
Moon	18919-11-24 20:24 G	8631410.13	8631410.35	8631410.60	0.0088	0.0031
Earth	18919-11-24 23:31 G	8631410.25	8631410.48	8631410.74	0.0088	0.0027 *
Mercury	18920-01-06 09:21 G	8631452.77	8631452.89	8631453.03	0.0088	0.0048
Mercury	18920-04-03 11:31 G	8631540.87	8631540.98	8631541.11	0.0088	0.0056
Mercury	18920-06-30 13:26 G	8631628.97	8631629.06	8631629.18	0.0088	0.0064
Mercury	18920-09-26 15:36 G	8631717.07	8631717.15	8631717.25	0.0088	0.0072

Earth	18920-11-26 09:36 G	8631777.67	8631777.90	8631778.16	0.0088	0.0026
Moon	18920-11-26 12:00 G	8631777.76	8631778.00	8631778.26	0.0088	0.0023 *
Mercury	18920-12-23 17:31 G	8631805.19	8631805.23	8631805.31	0.0088	0.0080
Mercury	18921-03-21 20:09 G	8631893.32	8631893.34	8631893.35	0.0088	0.0087
Moon	18921-11-28 18:43 G	8632145.05	8632145.28	8632145.53	0.0088	0.0027
Earth	18921-11-28 20:09 G	8632145.10	8632145.34	8632145.60	0.0088	0.0024 *
Moon	18922-12-01 06:00 G	8632512.51	8632512.75	8632513.02	0.0088	0.0020
Earth	18922-12-01 06:28 G	8632512.53	8632512.77	8632513.03	0.0088	0.0023 *
Earth	18923-12-03 16:48 G	8632879.95	8632880.20	8632880.45	0.0088	0.0021
Moon	18923-12-03 18:00 G	8632880.02	8632880.25	8632880.50	0.0088	0.0024 *
Moon	18924-12-05 00:43 G	8633247.28	8633247.53	8633247.80	0.0088	0.0017
Earth	18924-12-05 02:52 G	8633247.38	8633247.62	8633247.88	0.0088	0.0020 *
Earth	18925-12-07 12:57 G	8633614.80	8633615.04	8633615.30	0.0088	0.0018
Moon	18925-12-07 16:19 G	8633614.95	8633615.18	8633615.44	0.0088	0.0021 *
Moon	18926-12-09 19:40 G	8633982.08	8633982.32	8633982.59	0.0088	0.0014
Earth	18926-12-09 23:31 G	8633982.23	8633982.48	8633982.73	0.0088	0.0016 *
Earth	18927-12-12 09:21 G	8634349.65	8634349.89	8634350.15	0.0088	0.0015
Moon	18927-12-12 12:57 G	8634349.80	8634350.04	8634350.31	0.0088	0.0017 *
Moon	18928-12-13 17:02 G	8634716.96	8634717.21	8634717.46	0.0088	0.0010
Earth	18928-12-13 19:40 G	8634717.07	8634717.32	8634717.58	0.0088	0.0013 *
Earth	18929-12-16 05:45 G	8635084.49	8635084.74	8635085.00	0.0088	0.0012
Moon	18929-12-16 07:40 G	8635084.56	8635084.82	8635085.09	0.0088	0.0014 *
Moon	18930-12-18 15:07 G	8635451.89	8635452.13	8635452.38	0.0088	0.0008
Earth	18930-12-18 16:04 G	8635451.92	8635452.17	8635452.43	0.0088	0.0010 *
Moon	18931-12-21 01:26 G	8635819.30	8635819.56	8635819.83	0.0088	0.0011
Earth	18931-12-21 02:24 G	8635819.35	8635819.60	8635819.86	0.0088	0.0008 *
Earth	18932-12-22 12:43 G	8636186.78	8636187.03	8636187.29	0.0088	0.0006
Moon	18932-12-22 14:38 G	8636186.86	8636187.11	8636187.35	0.0088	0.0004 *
Moon	18933-12-24 20:24 G	8636554.09	8636554.35	8636554.61	0.0088	0.0007
Earth	18933-12-24 23:02 G	8636554.21	8636554.46	8636554.72	0.0088	0.0005 *

Earth	18934-12-27 09:21 G	8636921.64	8636921.89	8636922.15	0.0088	0.0003
Moon	18934-12-27 12:57 G	8636921.79	8636922.04	8636922.30	0.0088	0.0001 *
Moon	18935-12-29 16:19 G	8637288.93	8637289.18	8637289.44	0.0088	0.0004
Earth	18935-12-29 19:55 G	8637289.07	8637289.33	8637289.59	0.0088	0.0001 *
Earth	18936-12-31 06:00 G	8637656.49	8637656.75	8637657.01	0.0088	0.0001
Moon	18936-12-31 09:36 G	8637656.64	8637656.90	8637657.16	0.0088	0.0002 *
Moon	18938-01-02 13:55 G	8638023.83	8638024.08	8638024.33	0.0088	0.0001
Earth	18938-01-02 16:19 G	8638023.93	8638024.18	8638024.44	0.0088	0.0003 *
Earth	18939-01-05 02:38 G	8638391.36	8638391.61	8638391.87	0.0088	0.0004
Moon	18939-01-05 04:04 G	8638391.41	8638391.67	8638391.94	0.0088	0.0006 *
Moon	18940-01-07 12:28 G	8638758.77	8638759.02	8638759.27	0.0088	0.0004
Earth	18940-01-07 12:57 G	8638758.79	8638759.04	8638759.30	0.0088	0.0006 *
Moon	18941-01-08 21:50 G	8639126.16	8639126.41	8639126.69	0.0088	0.0010
Earth	18941-01-08 23:16 G	8639126.22	8639126.47	8639126.73	0.0088	0.0008 *
Earth	18942-01-11 09:36 G	8639493.65	8639493.90	8639494.16	0.0088	0.0009
Moon	18942-01-11 11:45 G	8639493.74	8639493.99	8639494.24	0.0088	0.0007 *
Moon	18943-01-13 17:16 G	8639860.96	8639861.22	8639861.48	0.0088	0.0012
Earth	18943-01-13 20:09 G	8639861.09	8639861.34	8639861.60	0.0088	0.0011 *
Earth	18944-01-16 06:28 G	8640228.52	8640228.77	8640229.03	0.0088	0.0013
Moon	18944-01-16 10:04 G	8640228.68	8640228.92	8640229.19	0.0088	0.0011 *
Moon	18945-01-17 13:40 G	8640595.83	8640596.07	8640596.33	0.0088	0.0016
Earth	18945-01-17 17:16 G	8640595.97	8640596.22	8640596.48	0.0088	0.0014 *
Earth	18946-01-20 03:50 G	8640963.41	8640963.66	8640963.92	0.0088	0.0016
Moon	18946-01-20 07:12 G	8640963.55	8640963.80	8640964.06	0.0088	0.0015 *
Moon	18947-01-22 12:28 G	8641330.78	8641331.02	8641331.27	0.0088	0.0019
Earth	18947-01-22 14:24 G	8641330.86	8641331.10	8641331.37	0.0088	0.0018 *
Earth	18948-01-25 01:12 G	8641698.31	8641698.55	8641698.81	0.0088	0.0019
Moon	18948-01-25 02:24 G	8641698.35	8641698.60	8641698.87	0.0088	0.0018 *
Moon	18949-01-26 11:45 G	8642065.76	8642065.99	8642066.24	0.0088	0.0022
Earth	18949-01-26 11:45 G	8642065.76	8642065.99	8642066.26	0.0088	0.0021 *

Moon	18950-01-28 20:52 G	8642433.13	8642433.37	8642433.65	0.0088	0.0021
Earth	18950-01-28 22:48 G	8642433.21	8642433.45	8642433.71	0.0088	0.0022 *
Earth	18951-01-31 09:21 G	8642800.66	8642800.89	8642801.15	0.0088	0.0024
Moon	18951-01-31 11:45 G	8642800.76	8642800.99	8642801.24	0.0088	0.0025 *
Moon	18952-02-02 17:16 G	8643167.97	8643168.22	8643168.48	0.0088	0.0024
Earth	18952-02-02 20:24 G	8643168.11	8643168.35	8643168.61	0.0088	0.0025 *
Earth	18953-02-04 07:12 G	8643535.56	8643535.80	8643536.05	0.0088	0.0026
Moon	18953-02-04 10:33 G	8643535.71	8643535.94	8643536.20	0.0088	0.0028 *
Moon	18954-02-06 14:38 G	8643902.88	8643903.11	8643903.37	0.0088	0.0027
Earth	18954-02-06 18:00 G	8643903.02	8643903.25	8643903.51	0.0088	0.0028 *
Earth	18955-02-09 05:02 G	8644270.47	8644270.71	8644270.96	0.0088	0.0029
Moon	18955-02-09 08:24 G	8644270.61	8644270.85	8644271.10	0.0088	0.0029 *
Moon	18956-02-11 13:55 G	8644637.86	8644638.08	8644638.33	0.0088	0.0030
Earth	18956-02-11 16:04 G	8644637.93	8644638.17	8644638.42	0.0088	0.0030 *
Earth	18957-02-13 02:52 G	8645005.40	8645005.62	8645005.88	0.0088	0.0032
Moon	18957-02-13 04:04 G	8645005.43	8645005.67	8645005.93	0.0088	0.0032 *
Earth	18958-02-15 14:09 G	8645372.87	8645373.09	8645373.35	0.0088	0.0033
Moon	18958-02-15 14:24 G	8645372.88	8645373.10	8645373.34	0.0088	0.0033 *
Moon	18959-02-17 23:31 G	8645740.26	8645740.48	8645740.75	0.0088	0.0035
Earth	18959-02-18 01:40 G	8645740.34	8645740.57	8645740.82	0.0088	0.0034 *
Earth	18960-02-20 12:57 G	8646107.81	8646108.04	8646108.29	0.0088	0.0035
Moon	18960-02-20 15:21 G	8646107.92	8646108.14	8646108.38	0.0088	0.0035 *
Moon	18961-02-21 20:52 G	8646475.15	8646475.37	8646475.63	0.0088	0.0036
Earth	18961-02-22 00:14 G	8646475.29	8646475.51	8646475.76	0.0088	0.0037 *
Earth	18962-02-24 11:45 G	8646842.77	8646842.99	8646843.23	0.0088	0.0037
Moon	18962-02-24 15:21 G	8646842.92	8646843.14	8646843.39	0.0088	0.0037 *
Moon	18963-02-26 19:40 G	8647210.11	8647210.32	8647210.57	0.0088	0.0038
Earth	18963-02-26 23:02 G	8647210.25	8647210.46	8647210.71	0.0088	0.0039 *
Earth	18964-02-29 10:19 G	8647577.72	8647577.93	8647578.18	0.0088	0.0039
Moon	18964-02-29 13:26 G	8647577.85	8647578.06	8647578.32	0.0088	0.0040 *

Moon	18965-03-02 20:09 G	8647945.13	8647945.34	8647945.58	0.0088	0.0040
Earth	18965-03-02 21:50 G	8647945.20	8647945.41	8647945.66	0.0088	0.0040 *
Earth	18966-03-05 09:36 G	8648312.68	8648312.90	8648313.14	0.0088	0.0041
Moon	18966-03-05 10:19 G	8648312.71	8648312.93	8648313.19	0.0088	0.0042 *
Earth	18967-03-07 20:52 G	8648680.16	8648680.37	8648680.62	0.0088	0.0042
Moon	18967-03-07 21:21 G	8648680.18	8648680.39	8648680.62	0.0088	0.0041 *
Mars	18967-03-22 07:40 G	8648694.52	8648694.82	8648695.12	0.0088	0.0033
Moon	18968-03-09 06:28 G	8649047.56	8649047.77	8649048.03	0.0088	0.0043
Earth	18968-03-09 08:24 G	8649047.65	8649047.85	8649048.10	0.0088	0.0043 *
Mars	18969-02-14 15:36 G	8649389.92	8649390.15	8649390.44	0.0088	0.0053
Earth	18969-03-11 20:24 G	8649415.13	8649415.35	8649415.59	0.0088	0.0043
Moon	18969-03-11 23:02 G	8649415.24	8649415.46	8649415.68	0.0088	0.0042 *
Moon	18970-03-14 04:48 G	8649782.49	8649782.70	8649782.94	0.0088	0.0044
Earth	18970-03-14 08:09 G	8649782.63	8649782.84	8649783.08	0.0088	0.0043 *
Earth	18971-03-16 20:09 G	8650150.12	8650150.34	8650150.57	0.0088	0.0044
Moon	18971-03-17 00:00 G	8650150.28	8650150.50	8650150.73	0.0088	0.0043 *
Moon	18972-03-18 04:33 G	8650517.49	8650517.69	8650517.93	0.0088	0.0046
Earth	18972-03-18 08:24 G	8650517.62	8650517.85	8650518.07	0.0088	0.0044 *
Earth	18973-03-20 19:55 G	8650885.12	8650885.33	8650885.57	0.0088	0.0045
Moon	18973-03-20 23:02 G	8650885.25	8650885.46	8650885.71	0.0088	0.0043 *
Moon	18974-03-23 06:43 G	8651252.57	8651252.78	8651253.00	0.0088	0.0046
Earth	18974-03-23 08:09 G	8651252.63	8651252.84	8651253.08	0.0088	0.0045 *
Earth	18975-03-25 20:24 G	8651620.13	8651620.35	8651620.58	0.0089	0.0045
Moon	18975-03-25 21:21 G	8651620.16	8651620.39	8651620.63	0.0089	0.0043 *
Earth	18976-03-27 08:24 G	8651987.64	8651987.85	8651988.08	0.0089	0.0045
Moon	18976-03-27 08:52 G	8651987.66	8651987.87	8651988.08	0.0089	0.0047 *
Moon	18977-03-29 18:28 G	8652355.05	8652355.27	8652355.52	0.0089	0.0044
Earth	18977-03-29 20:38 G	8652355.15	8652355.36	8652355.59	0.0089	0.0045 *
Earth	18978-04-01 08:52 G	8652722.65	8652722.87	8652723.10	0.0089	0.0045
Moon	18978-04-01 11:16 G	8652722.76	8652722.97	8652723.19	0.0089	0.0047 *

Moon	18979-04-03 17:31 G	8653090.01	8653090.23	8653090.48	0.0089	0.0043
Earth	18979-04-03 21:07 G	8653090.16	8653090.38	8653090.61	0.0089	0.0045 *
Earth	18980-04-05 09:07 G	8653457.67	8653457.88	8653458.11	0.0089	0.0045
Moon	18980-04-05 12:43 G	8653457.82	8653458.03	8653458.26	0.0089	0.0047 *
Moon	18981-04-07 18:14 G	8653825.04	8653825.26	8653825.50	0.0089	0.0042
Earth	18981-04-07 21:36 G	8653825.19	8653825.40	8653825.64	0.0089	0.0045 *
Earth	18982-04-10 09:50 G	8654192.71	8654192.91	8654193.15	0.0089	0.0045
Moon	18982-04-10 12:57 G	8654192.84	8654193.04	8654193.29	0.0089	0.0048 *
Moon	18983-04-12 20:38 G	8654560.15	8654560.36	8654560.60	0.0089	0.0042
Earth	18983-04-12 22:33 G	8654560.23	8654560.44	8654560.67	0.0089	0.0044 *
Earth	18984-04-14 11:02 G	8654927.75	8654927.96	8654928.20	0.0089	0.0044
Moon	18984-04-14 12:14 G	8654927.80	8654928.01	8654928.26	0.0089	0.0047 *
Earth	18985-04-17 00:00 G	8655295.28	8655295.50	8655295.73	0.0089	0.0043
Moon	18985-04-17 00:14 G	8655295.29	8655295.51	8655295.74	0.0089	0.0040 *
Moon	18986-04-19 11:02 G	8655662.74	8655662.96	8655663.20	0.0089	0.0045
Earth	18986-04-19 12:28 G	8655662.81	8655663.02	8655663.27	0.0089	0.0043 *
Earth	18987-04-22 01:26 G	8656030.34	8656030.56	8656030.80	0.0089	0.0042
Moon	18987-04-22 03:36 G	8656030.43	8656030.65	8656030.89	0.0089	0.0039 *
Moon	18988-04-23 10:33 G	8656397.73	8656397.94	8656398.19	0.0089	0.0045
Earth	18988-04-23 14:09 G	8656397.87	8656398.09	8656398.33	0.0089	0.0041 *
Earth	18989-04-26 02:38 G	8656765.40	8656765.61	8656765.86	0.0089	0.0041
Moon	18989-04-26 06:43 G	8656765.55	8656765.78	8656766.02	0.0089	0.0037 *
Moon	18990-04-28 12:00 G	8657132.80	8657133.00	8657133.25	0.0089	0.0044
Earth	18990-04-28 15:36 G	8657132.94	8657133.15	8657133.40	0.0089	0.0040 *
Earth	18991-05-01 04:19 G	8657500.46	8657500.68	8657500.93	0.0089	0.0039
Moon	18991-05-01 07:40 G	8657500.59	8657500.82	8657501.08	0.0089	0.0035 *
Venus	18991-10-07 14:09 G	8657659.98	8657660.09	8657660.20	0.0089	0.0076
Moon	18992-05-02 15:07 G	8657867.93	8657868.13	8657868.37	0.0089	0.0042
Earth	18992-05-02 17:16 G	8657868.00	8657868.22	8657868.47	0.0089	0.0038 *
Venus	18992-05-20 03:07 G	8657885.47	8657885.63	8657885.81	0.0089	0.0056

Venus	18992-12-31 16:19 G	8658110.99	8658111.18	8658111.39	0.0089	0.0036
Earth	18993-05-05 06:14 G	8658235.54	8658235.76	8658236.01	0.0089	0.0037
Moon	18993-05-05 07:55 G	8658235.59	8658235.83	8658236.09	0.0089	0.0033 *
Venus	18993-08-14 05:31 G	8658336.52	8658336.73	8658336.95	0.0089	0.0016
Venus	18994-03-27 18:57 G	8658562.07	8658562.29	8658562.51	0.0089	0.0004
Earth	18994-05-07 19:12 G	8658603.07	8658603.30	8658603.55	0.0089	0.0036
Moon	18994-05-07 18:57 G	8658603.08	8658603.29	8658603.53	0.0089	0.0041 *
Venus	18994-11-08 08:09 G	8658787.63	8658787.84	8658788.05	0.0089	0.0025
Moon	18995-05-10 06:57 G	8658970.55	8658970.79	8658971.05	0.0089	0.0031
Earth	18995-05-10 08:09 G	8658970.62	8658970.84	8658971.09	0.0089	0.0035 *
Venus	18995-06-21 20:52 G	8659013.20	8659013.37	8659013.58	0.0089	0.0045
Venus	18996-02-02 10:19 G	8659238.79	8659238.93	8659239.09	0.0089	0.0065
Earth	18996-05-11 21:36 G	8659338.16	8659338.40	8659338.64	0.0089	0.0034
Moon	18996-05-11 23:02 G	8659338.25	8659338.46	8659338.70	0.0089	0.0038 *
Venus	18996-09-14 23:31 G	8659464.44	8659464.48	8659464.56	0.0089	0.0085
Moon	18997-05-14 07:12 G	8659705.57	8659705.80	8659706.07	0.0089	0.0029
Earth	18997-05-14 10:48 G	8659705.71	8659705.95	8659706.19	0.0089	0.0032 *
Earth	18998-05-16 23:45 G	8660073.26	8660073.49	8660073.74	0.0089	0.0031
Moon	18998-05-17 03:07 G	8660073.41	8660073.63	8660073.88	0.0089	0.0036 *
Mercury	18999-02-27 18:57 G	8660360.25	8660360.29	8660360.37	0.0089	0.0082
Moon	18999-05-19 09:21 G	8660440.65	8660440.89	8660441.15	0.0089	0.0026
Earth	18999-05-19 12:43 G	8660440.80	8660441.03	8660441.29	0.0089	0.0031 *
Mercury	18999-05-26 21:36 G	8660448.32	8660448.40	8660448.50	0.0089	0.0073
Mercury	18999-08-22 23:45 G	8660536.40	8660536.49	8660536.62	0.0089	0.0065
Mercury	18999-11-19 02:24 G	8660624.48	8660624.60	8660624.73	0.0089	0.0056
Mercury	19000-02-15 04:33 G	8660712.57	8660712.69	8660712.84	0.0089	0.0048
Mercury	19000-05-14 07:12 G	8660800.66	8660800.80	8660800.95	0.0089	0.0039
Earth	19000-05-22 02:09 G	8660808.35	8660808.59	8660808.84	0.0089	0.0029
Moon	19000-05-22 05:31 G	8660808.50	8660808.73	8660808.98	0.0089	0.0033 *
Mercury	19000-08-10 09:21 G	8660888.75	8660888.89	8660889.05	0.0089	0.0031



Mercury 19000-11-06 11:45 G 8660976.84 8660976.99 8660977.15 0.0089 0.0023

# 20TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 20th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	19001-02-02 14:09	G	8661064.93	8661065.09	8661065.25	0.0089	0.0014	
Mercury	19001-05-01 16:33	G	8661153.03	8661153.19	8661153.35	0.0089	0.0006	
Moon	19001-05-24 12:57	G	8661175.80	8661176.04	8661176.29	0.0089	0.0023	
Earth	19001-05-24 15:21	G	8661175.90	8661176.14	8661176.39	0.0089	0.0027	*
Mercury	19001-07-28 18:43	G	8661241.12	8661241.28	8661241.44	0.0089	0.0002	
Mercury	19001-10-24 21:07	G	8661329.22	8661329.38	8661329.54	0.0089	0.0011	
Mercury	19002-01-20 23:16	G	8661417.31	8661417.47	8661417.63	0.0089	0.0019	
Mercury	19002-04-19 01:12	G	8661505.41	8661505.55	8661505.72	0.0089	0.0028	
Earth	19002-05-27 04:19	G	8661543.44	8661543.68	8661543.94	0.0089	0.0026	
Moon	19002-05-27 06:00	G	8661543.52	8661543.75	8661544.02	0.0089	0.0031	*
Mercury	19002-07-16 03:36	G	8661593.51	8661593.65	8661593.80	0.0089	0.0035	
Mercury	19002-10-12 05:45	G	8661681.61	8661681.74	8661681.89	0.0089	0.0043	
Mercury	19003-01-08 07:55	G	8661769.71	8661769.83	8661769.97	0.0089	0.0051	
Mercury	19003-04-06 10:04	G	8661857.82	8661857.92	8661858.05	0.0089	0.0059	
Moon	19003-05-29 17:02	G	8661910.97	8661911.21	8661911.46	0.0089	0.0020	
Earth	19003-05-29 17:16	G	8661910.98	8661911.22	8661911.48	0.0089	0.0025	*
Mercury	19003-07-03 12:14	G	8661945.92	8661946.01	8661946.13	0.0089	0.0067	

Mercury	19003-09-29 14:24 G	8662034.03	8662034.10	8662034.20	0.0089	0.0075
Mercury	19003-12-26 16:33 G	8662122.15	8662122.19	8662122.26	0.0089	0.0083
Moon	19004-05-31 05:45 G	8662278.48	8662278.74	8662279.00	0.0089	0.0027
Earth	19004-05-31 06:28 G	8662278.53	8662278.77	8662279.03	0.0089	0.0023 *
Earth	19005-06-02 19:26 G	8662646.07	8662646.31	8662646.58	0.0089	0.0022
Moon	19005-06-02 21:21 G	8662646.14	8662646.39	8662646.63	0.0089	0.0017 *
Moon	19006-06-05 05:45 G	8663013.49	8663013.74	8663014.00	0.0089	0.0024
Earth	19006-06-05 08:52 G	8663013.62	8663013.87	8663014.13	0.0089	0.0020 *
Earth	19007-06-07 21:36 G	8663381.16	8663381.40	8663381.67	0.0089	0.0019
Moon	19007-06-08 01:12 G	8663381.30	8663381.55	8663381.81	0.0089	0.0014 *
Moon	19008-06-09 07:26 G	8663748.57	8663748.81	8663749.07	0.0089	0.0021
Earth	19008-06-09 11:02 G	8663748.72	8663748.96	8663749.23	0.0089	0.0017 *
Earth	19009-06-12 00:28 G	8664116.27	8664116.52	8664116.78	0.0089	0.0015
Moon	19009-06-12 03:50 G	8664116.41	8664116.66	8664116.93	0.0089	0.0011 *
Jupiter	19010-06-03 20:38 G	8664472.95	8664473.36	8664473.83	0.0089	0.0047
Moon	19010-06-14 11:02 G	8664483.72	8664483.96	8664484.21	0.0089	0.0017
Earth	19010-06-14 13:26 G	8664483.82	8664484.06	8664484.33	0.0089	0.0014 *
Earth	19011-06-17 02:52 G	8664851.37	8664851.62	8664851.88	0.0089	0.0012
Moon	19011-06-17 05:16 G	8664851.46	8664851.72	8664851.99	0.0089	0.0007 *
Moon	19012-06-18 15:21 G	8665218.90	8665219.14	8665219.40	0.0089	0.0015
Earth	19012-06-18 16:19 G	8665218.92	8665219.18	8665219.44	0.0089	0.0010 *
Moon	19013-06-21 05:02 G	8665586.44	8665586.71	8665586.98	0.0089	0.0004
Earth	19013-06-21 05:31 G	8665586.47	8665586.73	8665586.99	0.0089	0.0008 *
Earth	19014-06-23 18:28 G	8665954.02	8665954.27	8665954.54	0.0089	0.0007
Moon	19014-06-23 19:40 G	8665954.07	8665954.32	8665954.57	0.0089	0.0010 *
Moon	19015-06-26 04:48 G	8666321.44	8666321.70	8666321.97	0.0090	0.0001
Earth	19015-06-26 07:40 G	8666321.56	8666321.82	8666322.08	0.0090	0.0004 *
Earth	19016-06-27 20:38 G	8666689.10	8666689.36	8666689.62	0.0090	0.0003
Moon	19016-06-27 23:45 G	8666689.24	8666689.49	8666689.75	0.0090	0.0007 *
Moon	19017-06-30 06:14 G	8667056.50	8667056.76	8667057.02	0.0090	0.0003

Earth	19017-06-30 09:50 G	8667056.65	8667056.91	8667057.17	0.0090	0.0001	*
Earth	19018-07-02 22:33 G	8667424.19	8667424.44	8667424.70	0.0090	0.0002	
Moon	19018-07-03 02:09 G	8667424.33	8667424.59	8667424.86	0.0090	0.0004	*
Moon	19019-07-05 08:38 G	8667791.62	8667791.86	8667792.12	0.0090	0.0007	
Earth	19019-07-05 11:45 G	8667791.73	8667791.99	8667792.25	0.0090	0.0002	*
Earth	19020-07-07 00:43 G	8668159.27	8668159.53	8668159.79	0.0089	0.0004	
Moon	19020-07-07 03:21 G	8668159.38	8668159.64	8668159.91	0.0089	0.0002	*
Moon	19021-07-09 12:43 G	8668526.79	8668527.03	8668527.28	0.0089	0.0010	
Earth	19021-07-09 13:40 G	8668526.82	8668527.07	8668527.34	0.0089	0.0007	*
Earth	19022-07-12 02:52 G	8668894.36	8668894.62	8668894.88	0.0089	0.0008	
Moon	19022-07-12 02:52 G	8668894.36	8668894.62	8668894.89	0.0089	0.0005	*
Earth	19023-07-14 15:50 G	8669261.91	8669262.16	8669262.42	0.0089	0.0010	
Moon	19023-07-14 16:48 G	8669261.95	8669262.20	8669262.45	0.0089	0.0013	*
Moon	19024-07-16 02:24 G	8669629.34	8669629.60	8669629.87	0.0089	0.0008	
Earth	19024-07-16 05:02 G	8669629.46	8669629.71	8669629.97	0.0089	0.0011	*
Earth	19025-07-18 18:00 G	8669997.00	8669997.25	8669997.51	0.0089	0.0013	
Moon	19025-07-18 20:38 G	8669997.12	8669997.36	8669997.62	0.0089	0.0017	*
Moon	19026-07-21 03:07 G	8670364.38	8670364.63	8670364.90	0.0089	0.0012	
Earth	19026-07-21 06:43 G	8670364.53	8670364.78	8670365.04	0.0089	0.0015	*
Earth	19027-07-23 19:26 G	8670732.06	8670732.31	8670732.57	0.0089	0.0016	
Moon	19027-07-23 23:02 G	8670732.22	8670732.46	8670732.72	0.0089	0.0020	*
Moon	19028-07-25 05:02 G	8671099.47	8671099.71	8671099.97	0.0089	0.0016	
Earth	19028-07-25 08:24 G	8671099.60	8671099.85	8671100.11	0.0089	0.0018	*
Earth	19029-07-27 20:52 G	8671467.12	8671467.37	8671467.63	0.0089	0.0019	
Moon	19029-07-27 23:45 G	8671467.24	8671467.49	8671467.75	0.0089	0.0022	*
Moon	19030-07-30 08:09 G	8671834.61	8671834.84	8671835.10	0.0089	0.0019	
Earth	19030-07-30 09:21 G	8671834.65	8671834.89	8671835.16	0.0089	0.0021	*
Earth	19031-08-01 22:04 G	8672202.18	8672202.42	8672202.68	0.0089	0.0023	
Moon	19031-08-01 22:33 G	8672202.19	8672202.44	8672202.71	0.0089	0.0024	*
Earth	19032-08-03 10:48 G	8672569.71	8672569.95	8672570.20	0.0089	0.0024	

Moon	19032-08-03 11:31 G	8672569.74	8672569.98	8672570.22	0.0089	0.0022 *
Moon	19033-08-05 21:07 G	8672937.13	8672937.38	8672937.64	0.0089	0.0028
Earth	19033-08-05 23:16 G	8672937.23	8672937.47	8672937.73	0.0089	0.0025 *
Earth	19034-08-08 11:45 G	8673304.75	8673304.99	8673305.24	0.0089	0.0027
Moon	19034-08-08 14:38 G	8673304.86	8673305.11	8673305.35	0.0089	0.0025 *
Moon	19035-08-10 20:52 G	8673672.13	8673672.37	8673672.62	0.0089	0.0030
Earth	19035-08-11 00:14 G	8673672.28	8673672.51	8673672.77	0.0089	0.0028 *
Earth	19036-08-12 12:43 G	8674039.80	8674040.03	8674040.29	0.0089	0.0030
Moon	19036-08-12 16:19 G	8674039.95	8674040.18	8674040.44	0.0089	0.0028 *
Moon	19037-08-14 22:04 G	8674407.19	8674407.42	8674407.66	0.0089	0.0032
Earth	19037-08-15 01:12 G	8674407.32	8674407.55	8674407.80	0.0089	0.0031 *
Earth	19038-08-17 13:26 G	8674774.83	8674775.06	8674775.31	0.0089	0.0032
Moon	19038-08-17 16:33 G	8674774.95	8674775.19	8674775.44	0.0089	0.0031 *
Moon	19039-08-20 00:14 G	8675142.29	8675142.51	8675142.75	0.0089	0.0035
Earth	19039-08-20 01:55 G	8675142.34	8675142.58	8675142.82	0.0089	0.0033 *
Earth	19040-08-21 13:55 G	8675509.85	8675510.08	8675510.32	0.0089	0.0034
Moon	19040-08-21 14:24 G	8675509.87	8675510.10	8675510.36	0.0089	0.0033 *
Earth	19041-08-24 02:09 G	8675877.35	8675877.59	8675877.83	0.0089	0.0035
Moon	19041-08-24 02:24 G	8675877.38	8675877.60	8675877.84	0.0089	0.0036 *
Moon	19042-08-26 11:31 G	8676244.75	8676244.98	8676245.24	0.0089	0.0034
Earth	19042-08-26 13:55 G	8676244.85	8676245.08	8676245.32	0.0089	0.0036 *
Earth	19043-08-29 01:40 G	8676612.35	8676612.57	8676612.82	0.0089	0.0037
Moon	19043-08-29 04:04 G	8676612.46	8676612.67	8676612.92	0.0089	0.0038 *
Moon	19044-08-30 10:04 G	8676979.70	8676979.92	8676980.17	0.0089	0.0037
Earth	19044-08-30 13:40 G	8676979.85	8676980.07	8676980.31	0.0089	0.0038 *
Earth	19045-09-02 01:12 G	8677347.34	8677347.55	8677347.80	0.0089	0.0039
Moon	19045-09-02 04:48 G	8677347.49	8677347.70	8677347.95	0.0089	0.0039 *
Moon	19046-09-04 09:50 G	8677714.70	8677714.91	8677715.16	0.0089	0.0039
Earth	19046-09-04 13:12 G	8677714.83	8677715.05	8677715.30	0.0089	0.0039 *
Earth	19047-09-07 01:26 G	8678082.33	8678082.56	8678082.79	0.0089	0.0040

Moon	19047-09-07 04:04 G	8678082.45	8678082.67	8678082.92	0.0089	0.0039 *
Moon	19048-09-08 11:31 G	8678449.77	8678449.98	8678450.22	0.0089	0.0040
Earth	19048-09-08 12:57 G	8678449.82	8678450.04	8678450.28	0.0089	0.0040 *
Mars	19048-12-04 21:07 G	8678537.09	8678537.38	8678537.68	0.0089	0.0014
Earth	19049-09-11 00:28 G	8678817.31	8678817.52	8678817.77	0.0089	0.0041
Moon	19049-09-11 01:26 G	8678817.34	8678817.56	8678817.81	0.0089	0.0040 *
Earth	19050-09-13 12:14 G	8679184.80	8679185.01	8679185.25	0.0089	0.0041
Moon	19050-09-13 12:43 G	8679184.83	8679185.03	8679185.27	0.0089	0.0042 *
Mars	19050-10-30 02:24 G	8679231.43	8679231.60	8679231.83	0.0089	0.0066
Moon	19051-09-15 21:36 G	8679552.18	8679552.40	8679552.65	0.0089	0.0042
Earth	19051-09-15 23:45 G	8679552.28	8679552.49	8679552.73	0.0089	0.0042 *
Earth	19052-09-17 11:16 G	8679919.76	8679919.97	8679920.21	0.0089	0.0042
Moon	19052-09-17 13:40 G	8679919.87	8679920.07	8679920.31	0.0089	0.0043 *
Moon	19053-09-19 18:43 G	8680287.08	8680287.28	8680287.54	0.0089	0.0042
Earth	19053-09-19 22:33 G	8680287.23	8680287.44	8680287.68	0.0089	0.0042 *
Earth	19054-09-22 10:04 G	8680654.70	8680654.92	8680655.15	0.0089	0.0042
Moon	19054-09-22 13:12 G	8680654.85	8680655.05	8680655.30	0.0089	0.0043 *
Moon	19055-09-24 18:14 G	8681022.04	8681022.26	8681022.48	0.0089	0.0041
Earth	19055-09-24 21:07 G	8681022.17	8681022.38	8681022.62	0.0089	0.0043 *
Earth	19056-09-26 08:09 G	8681389.64	8681389.84	8681390.09	0.0089	0.0043
Moon	19056-09-26 11:02 G	8681389.75	8681389.96	8681390.21	0.0089	0.0044 *
Moon	19057-09-28 18:28 G	8681757.06	8681757.27	8681757.49	0.0089	0.0042
Earth	19057-09-28 19:26 G	8681757.10	8681757.31	8681757.55	0.0089	0.0043 *
Earth	19058-10-01 06:28 G	8682124.57	8682124.77	8682125.02	0.0089	0.0043
Moon	19058-10-01 07:12 G	8682124.59	8682124.80	8682125.05	0.0089	0.0044 *
Earth	19059-10-03 17:45 G	8682492.03	8682492.24	8682492.48	0.0089	0.0043
Moon	19059-10-03 18:57 G	8682492.07	8682492.29	8682492.51	0.0089	0.0041 *
Moon	19060-10-05 02:38 G	8682859.40	8682859.61	8682859.86	0.0089	0.0043
Earth	19060-10-05 04:48 G	8682859.50	8682859.70	8682859.95	0.0089	0.0043 *
Earth	19061-10-07 16:19 G	8683226.96	8683227.18	8683227.41	0.0089	0.0042

Moon	19061-10-07 18:43 G	8683227.07	8683227.28	8683227.52	0.0089	0.0041 *
Moon	19062-10-09 23:16 G	8683594.27	8683594.47	8683594.72	0.0089	0.0044
Earth	19062-10-10 03:07 G	8683594.42	8683594.63	8683594.87	0.0089	0.0042 *
Earth	19063-10-12 14:09 G	8683961.88	8683962.09	8683962.33	0.0089	0.0042
Moon	19063-10-12 17:45 G	8683962.02	8683962.24	8683962.48	0.0089	0.0040 *
Moon	19064-10-13 22:04 G	8684329.20	8684329.42	8684329.64	0.0089	0.0043
Earth	19064-10-14 01:12 G	8684329.33	8684329.55	8684329.79	0.0089	0.0041 *
Earth	19065-10-16 11:45 G	8684696.78	8684696.99	8684697.23	0.0089	0.0041
Moon	19065-10-16 14:24 G	8684696.88	8684697.10	8684697.35	0.0089	0.0038 *
Moon	19066-10-18 21:21 G	8685064.19	8685064.39	8685064.63	0.0088	0.0042
Earth	19066-10-18 22:33 G	8685064.22	8685064.44	8685064.68	0.0088	0.0040 *
Earth	19067-10-21 09:07 G	8685431.67	8685431.88	8685432.13	0.0088	0.0039
Moon	19067-10-21 09:50 G	8685431.67	8685431.91	8685432.15	0.0088	0.0037 *
Earth	19068-10-22 19:55 G	8685799.11	8685799.33	8685799.57	0.0088	0.0039
Moon	19068-10-22 21:07 G	8685799.17	8685799.38	8685799.61	0.0088	0.0041 *
Moon	19069-10-25 03:50 G	8686166.43	8686166.66	8686166.91	0.0088	0.0037
Earth	19069-10-25 06:28 G	8686166.55	8686166.77	8686167.01	0.0088	0.0038 *
Earth	19070-10-27 16:48 G	8686533.99	8686534.20	8686534.45	0.0088	0.0037
Moon	19070-10-27 19:55 G	8686534.11	8686534.33	8686534.56	0.0088	0.0039 *
Moon	19071-10-29 23:45 G	8686901.27	8686901.49	8686901.75	0.0088	0.0034
Earth	19071-10-30 03:36 G	8686901.43	8686901.65	8686901.90	0.0088	0.0036 *
Earth	19072-10-31 13:55 G	8687268.86	8687269.08	8687269.33	0.0088	0.0036
Moon	19072-10-31 17:31 G	8687269.01	8687269.23	8687269.47	0.0088	0.0037 *
Venus	19073-04-12 22:33 G	8687432.33	8687432.44	8687432.58	0.0088	0.0072
Moon	19073-11-02 21:50 G	8687636.18	8687636.41	8687636.65	0.0088	0.0032
Earth	19073-11-03 00:43 G	8687636.31	8687636.53	8687636.78	0.0088	0.0035 *
Venus	19073-11-24 11:16 G	8687657.81	8687657.97	8687658.17	0.0088	0.0052
Venus	19074-07-08 00:14 G	8687883.32	8687883.51	8687883.73	0.0088	0.0033
Earth	19074-11-05 11:16 G	8688003.74	8688003.97	8688004.22	0.0088	0.0033
Moon	19074-11-05 13:26 G	8688003.84	8688004.06	8688004.32	0.0088	0.0036 *

Venus	19075-02-18 13:26 G	8688108.84	8688109.06	8688109.27	0.0088	0.0013
Venus	19075-10-02 02:09 G	8688334.37	8688334.59	8688334.81	0.0088	0.0007
Moon	19075-11-07 21:07 G	8688371.16	8688371.38	8688371.62	0.0088	0.0030
Earth	19075-11-07 21:50 G	8688371.18	8688371.41	8688371.66	0.0088	0.0032 *
Venus	19076-05-14 14:38 G	8688559.91	8688560.11	8688560.33	0.0088	0.0027
Earth	19076-11-09 08:09 G	8688738.61	8688738.84	8688739.09	0.0088	0.0031
Moon	19076-11-09 07:55 G	8688738.61	8688738.83	8688739.10	0.0088	0.0035 *
Venus	19076-12-26 03:21 G	8688785.47	8688785.64	8688785.84	0.0088	0.0047
Venus	19077-08-08 16:04 G	8689011.04	8689011.17	8689011.33	0.0088	0.0066
Earth	19077-11-11 18:28 G	8689106.04	8689106.27	8689106.52	0.0088	0.0030
Moon	19077-11-11 20:09 G	8689106.11	8689106.34	8689106.58	0.0088	0.0028 *
Venus	19078-03-22 05:02 G	8689236.67	8689236.71	8689236.77	0.0088	0.0085
Moon	19078-11-14 01:55 G	8689473.35	8689473.58	8689473.84	0.0088	0.0031
Earth	19078-11-14 04:48 G	8689473.47	8689473.70	8689473.95	0.0088	0.0029 *
Earth	19079-11-16 14:52 G	8689840.89	8689841.12	8689841.38	0.0088	0.0028
Moon	19079-11-16 18:00 G	8689841.02	8689841.25	8689841.51	0.0088	0.0025 *
Mercury	19080-05-31 20:38 G	8690038.35	8690038.36	8690038.41	0.0088	0.0086
Mercury	19080-08-27 22:48 G	8690126.39	8690126.45	8690126.52	0.0088	0.0079
Moon	19080-11-17 21:36 G	8690208.17	8690208.40	8690208.65	0.0088	0.0029
Earth	19080-11-18 01:26 G	8690208.32	8690208.56	8690208.81	0.0088	0.0027 *
Mercury	19080-11-24 00:43 G	8690214.45	8690214.53	8690214.62	0.0088	0.0071
Mercury	19081-02-20 02:24 G	8690302.51	8690302.60	8690302.72	0.0088	0.0064
Mercury	19081-05-19 04:33 G	8690390.58	8690390.69	8690390.81	0.0088	0.0056
Mercury	19081-08-15 06:28 G	8690478.65	8690478.77	8690478.90	0.0088	0.0049
Mercury	19081-11-11 08:09 G	8690566.72	8690566.84	8690566.99	0.0088	0.0042
Earth	19081-11-20 11:31 G	8690575.74	8690575.98	8690576.23	0.0088	0.0025
Moon	19081-11-20 14:38 G	8690575.87	8690576.11	8690576.37	0.0088	0.0023 *
Mercury	19082-02-07 10:19 G	8690654.79	8690654.93	8690655.08	0.0088	0.0034
Mercury	19082-05-06 12:14 G	8690742.87	8690743.01	8690743.16	0.0088	0.0027
Mercury	19082-08-02 14:24 G	8690830.95	8690831.10	8690831.25	0.0088	0.0019

Mercury	19082-10-29 16:19 G	8690919.03	8690919.18	8690919.33	0.0088	0.0011
Moon	19082-11-22 18:57 G	8690943.06	8690943.29	8690943.53	0.0088	0.0027
Earth	19082-11-22 21:50 G	8690943.17	8690943.41	8690943.66	0.0088	0.0024 *
Mercury	19083-01-25 18:14 G	8691007.11	8691007.26	8691007.42	0.0088	0.0004
Mercury	19083-04-23 20:09 G	8691095.19	8691095.34	8691095.50	0.0088	0.0005
Mercury	19083-07-20 22:19 G	8691183.27	8691183.43	8691183.58	0.0088	0.0011
Mercury	19083-10-17 00:14 G	8691271.36	8691271.51	8691271.66	0.0088	0.0019
Earth	19083-11-25 07:40 G	8691310.59	8691310.82	8691311.08	0.0088	0.0023
Moon	19083-11-25 09:36 G	8691310.66	8691310.90	8691311.17	0.0088	0.0020 *
Mercury	19084-01-13 02:09 G	8691359.45	8691359.59	8691359.74	0.0088	0.0027
Mercury	19084-04-10 04:04 G	8691447.54	8691447.67	8691447.82	0.0088	0.0035
Mercury	19084-07-07 06:14 G	8691535.63	8691535.76	8691535.90	0.0088	0.0042
Mercury	19084-10-03 08:24 G	8691623.72	8691623.85	8691623.98	0.0088	0.0050
Moon	19084-11-26 17:45 G	8691678.01	8691678.24	8691678.49	0.0088	0.0024
Earth	19084-11-26 18:14 G	8691678.01	8691678.26	8691678.51	0.0088	0.0021 *
Mercury	19084-12-30 10:19 G	8691711.82	8691711.93	8691712.05	0.0088	0.0058
Mercury	19085-03-28 12:14 G	8691799.92	8691800.01	8691800.13	0.0088	0.0066
Mercury	19085-06-24 14:09 G	8691888.03	8691888.09	8691888.19	0.0088	0.0074
Mercury	19085-09-20 16:48 G	8691976.14	8691976.20	8691976.25	0.0088	0.0081
Moon	19085-11-29 03:50 G	8692045.41	8692045.66	8692045.93	0.0088	0.0017
Earth	19085-11-29 04:19 G	8692045.44	8692045.68	8692045.94	0.0088	0.0020 *
Earth	19086-12-01 14:52 G	8692412.87	8692413.12	8692413.37	0.0088	0.0018
Moon	19086-12-01 16:33 G	8692412.96	8692413.19	8692413.44	0.0088	0.0022 *
Moon	19087-12-03 21:50 G	8692780.17	8692780.41	8692780.68	0.0088	0.0015
Earth	19087-12-04 01:12 G	8692780.30	8692780.55	8692780.80	0.0088	0.0017 *
Earth	19088-12-05 11:02 G	8693147.72	8693147.96	8693148.22	0.0088	0.0016
Moon	19088-12-05 14:24 G	8693147.86	8693148.10	8693148.35	0.0088	0.0019 *
Moon	19089-12-07 17:45 G	8693514.99	8693515.24	8693515.50	0.0088	0.0011
Earth	19089-12-07 21:36 G	8693515.15	8693515.40	8693515.66	0.0088	0.0014 *
Earth	19090-12-10 07:40 G	8693882.57	8693882.82	8693883.08	0.0088	0.0013



Moon	19090-12-10 10:33 G	8693882.70	8693882.94	8693883.21	0.0088	0.0016	*
Moon	19091-12-12 15:07 G	8694249.89	8694250.13	8694250.39	0.0088	0.0008	
Earth	19091-12-12 17:45 G	8694249.99	8694250.24	8694250.50	0.0088	0.0011	*
Earth	19092-12-14 03:50 G	8694617.41	8694617.66	8694617.92	0.0088	0.0010	
Moon	19092-12-14 05:16 G	8694617.46	8694617.72	8694617.99	0.0088	0.0013	*
Earth	19093-12-16 14:09 G	8694984.84	8694985.09	8694985.35	0.0088	0.0008	
Moon	19093-12-16 14:24 G	8694984.85	8694985.10	8694985.34	0.0088	0.0005	*
Moon	19094-12-18 23:16 G	8695352.21	8695352.47	8695352.74	0.0088	0.0010	
Earth	19094-12-19 00:14 G	8695352.26	8695352.51	8695352.77	0.0088	0.0007	*
Earth	19095-12-21 10:33 G	8695719.68	8695719.94	8695720.20	0.0088	0.0005	
Moon	19095-12-21 12:57 G	8695719.79	8695720.04	8695720.29	0.0088	0.0001	*
Moon	19096-12-22 17:31 G	8696086.97	8696087.23	8696087.49	0.0088	0.0006	
Earth	19096-12-22 20:38 G	8696087.11	8696087.36	8696087.62	0.0088	0.0004	*
Earth	19097-12-25 06:57 G	8696454.54	8696454.79	8696455.05	0.0088	0.0002	
Moon	19097-12-25 10:19 G	8696454.68	8696454.93	8696455.19	0.0088	0.0003	*
Moon	19098-12-27 13:55 G	8696821.82	8696822.08	8696822.33	0.0088	0.0004	
Earth	19098-12-27 17:31 G	8696821.97	8696822.23	8696822.49	0.0088	0.0000	*
Earth	19099-12-30 03:50 G	8697189.40	8697189.66	8697189.91	0.0088	0.0002	
Moon	19099-12-30 06:28 G	8697189.51	8697189.77	8697190.04	0.0088	0.0005	*
Moon	19101-01-01 12:00 G	8697556.75	8697557.00	8697557.25	0.0088	0.0001	
Earth	19101-01-01 14:09 G	8697556.84	8697557.09	8697557.35	0.0088	0.0003	*
Earth	19102-01-04 00:28 G	8697924.27	8697924.52	8697924.78	0.0088	0.0005	
Moon	19102-01-04 01:26 G	8697924.30	8697924.56	8697924.83	0.0088	0.0008	*
Earth	19103-01-06 10:48 G	8698291.70	8698291.95	8698292.21	0.0088	0.0007	
Moon	19103-01-06 11:31 G	8698291.73	8698291.98	8698292.23	0.0088	0.0003	*
Moon	19104-01-08 19:40 G	8698659.07	8698659.32	8698659.60	0.0088	0.0012	
Earth	19104-01-08 21:07 G	8698659.13	8698659.38	8698659.64	0.0088	0.0008	*
Earth	19105-01-10 07:26 G	8699026.56	8699026.81	8699027.07	0.0088	0.0010	
Moon	19105-01-10 10:19 G	8699026.68	8699026.93	8699027.18	0.0088	0.0005	*
Moon	19106-01-12 14:38 G	8699393.86	8699394.11	8699394.37	0.0088	0.0014	

Earth	19106-01-12 18:00 G	8699394.00	8699394.25	8699394.51	0.0088	0.0011	*
Earth	19107-01-15 04:04 G	8699761.43	8699761.67	8699761.94	0.0088	0.0013	
Moon	19107-01-15 07:55 G	8699761.58	8699761.83	8699762.09	0.0088	0.0008	*
Moon	19108-01-17 11:02 G	8700128.72	8700128.96	8700129.22	0.0088	0.0018	
Earth	19108-01-17 14:38 G	8700128.86	8700129.11	8700129.37	0.0088	0.0014	*
Earth	19109-01-19 01:12 G	8700496.30	8700496.55	8700496.81	0.0088	0.0015	
Moon	19109-01-19 03:36 G	8700496.40	8700496.65	8700496.92	0.0088	0.0012	*
Moon	19110-01-21 09:36 G	8700863.67	8700863.90	8700864.15	0.0088	0.0021	
Earth	19110-01-21 11:45 G	8700863.74	8700863.99	8700864.25	0.0088	0.0017	*
Earth	19111-01-23 22:19 G	8701231.18	8701231.43	8701231.69	0.0088	0.0018	
Moon	19111-01-23 22:48 G	8701231.19	8701231.45	8701231.72	0.0088	0.0014	*
Earth	19112-01-26 08:52 G	8701598.63	8701598.87	8701599.13	0.0088	0.0020	
Moon	19112-01-26 09:50 G	8701598.68	8701598.91	8701599.16	0.0088	0.0023	*
Moon	19113-01-27 18:00 G	8701966.00	8701966.25	8701966.52	0.0088	0.0017	
Earth	19113-01-27 19:40 G	8701966.08	8701966.32	8701966.58	0.0088	0.0021	*
Earth	19114-01-30 06:28 G	8702333.53	8702333.77	8702334.02	0.0088	0.0022	
Moon	19114-01-30 09:07 G	8702333.66	8702333.88	8702334.14	0.0088	0.0027	*
Moon	19115-02-01 13:40 G	8702700.83	8702701.07	8702701.34	0.0088	0.0020	
Earth	19115-02-01 17:02 G	8702700.98	8702701.21	8702701.48	0.0088	0.0024	*
Earth	19116-02-04 03:50 G	8703068.42	8703068.66	8703068.92	0.0088	0.0025	
Moon	19116-02-04 07:26 G	8703068.58	8703068.81	8703069.06	0.0088	0.0029	*
Moon	19117-02-05 11:16 G	8703435.74	8703435.97	8703436.23	0.0088	0.0022	
Earth	19117-02-05 14:38 G	8703435.88	8703436.11	8703436.37	0.0088	0.0026	*
Earth	19118-02-08 01:26 G	8703803.33	8703803.56	8703803.82	0.0088	0.0027	
Moon	19118-02-08 03:50 G	8703803.43	8703803.66	8703803.92	0.0088	0.0031	*
Moon	19119-02-10 10:33 G	8704170.71	8704170.94	8704171.19	0.0088	0.0024	
Earth	19119-02-10 12:28 G	8704170.78	8704171.02	8704171.27	0.0088	0.0028	*
Earth	19120-02-12 23:16 G	8704538.24	8704538.47	8704538.72	0.0088	0.0029	
Moon	19120-02-12 23:16 G	8704538.24	8704538.47	8704538.73	0.0088	0.0034	*
Earth	19121-02-14 10:04 G	8704905.69	8704905.92	8704906.18	0.0088	0.0031	

Moon	19121-02-14 11:16 G	8704905.74	8704905.97	8704906.22	0.0088	0.0027 *
Moon	19122-02-16 19:12 G	8705273.07	8705273.30	8705273.56	0.0088	0.0036
Earth	19122-02-16 21:21 G	8705273.16	8705273.39	8705273.64	0.0088	0.0031 *
Earth	19123-02-19 08:38 G	8705640.62	8705640.86	8705641.10	0.0088	0.0033
Moon	19123-02-19 11:31 G	8705640.75	8705640.98	8705641.23	0.0088	0.0028 *
Moon	19124-02-21 15:50 G	8706007.95	8706008.16	8706008.42	0.0088	0.0038
Earth	19124-02-21 19:40 G	8706008.09	8706008.32	8706008.56	0.0088	0.0033 *
Earth	19125-02-23 06:57 G	8706375.56	8706375.79	8706376.03	0.0088	0.0034
Moon	19125-02-23 10:19 G	8706375.70	8706375.93	8706376.19	0.0088	0.0030 *
Moon	19126-02-25 14:52 G	8706742.92	8706743.12	8706743.37	0.0088	0.0041
Earth	19126-02-25 18:14 G	8706743.04	8706743.26	8706743.51	0.0088	0.0035 *
Earth	19127-02-28 05:31 G	8707110.51	8707110.73	8707110.98	0.0088	0.0036
Moon	19127-02-28 07:40 G	8707110.59	8707110.82	8707111.09	0.0088	0.0032 *
Moon	19128-03-01 15:21 G	8707477.94	8707478.14	8707478.38	0.0088	0.0042
Earth	19128-03-01 17:16 G	8707477.99	8707478.22	8707478.46	0.0088	0.0037 *
Moon	19129-03-04 04:19 G	8707845.45	8707845.68	8707845.95	0.0088	0.0033
Earth	19129-03-04 04:33 G	8707845.47	8707845.69	8707845.94	0.0088	0.0038 *
Earth	19130-03-06 15:50 G	8708212.95	8708213.16	8708213.41	0.0088	0.0038
Moon	19130-03-06 17:02 G	8708213.01	8708213.21	8708213.45	0.0088	0.0043 *
Mars	19130-11-05 04:48 G	8708456.52	8708456.70	8708456.94	0.0088	0.0069
Moon	19131-03-09 01:26 G	8708580.33	8708580.56	8708580.82	0.0088	0.0034
Earth	19131-03-09 03:50 G	8708580.43	8708580.66	8708580.89	0.0088	0.0039 *
Earth	19132-03-10 14:52 G	8708947.91	8708948.12	8708948.37	0.0088	0.0039
Moon	19132-03-10 18:28 G	8708948.06	8708948.27	8708948.50	0.0088	0.0044 *
Mars	19132-09-30 16:19 G	8709151.86	8709152.18	8709152.50	0.0088	0.0017
Moon	19133-03-12 23:16 G	8709315.25	8709315.47	8709315.73	0.0088	0.0035
Earth	19133-03-13 02:52 G	8709315.40	8709315.62	8709315.86	0.0088	0.0040 *
Earth	19134-03-15 14:52 G	8709682.89	8709683.12	8709683.35	0.0088	0.0040
Moon	19134-03-15 18:14 G	8709683.05	8709683.26	8709683.49	0.0088	0.0045 *
Moon	19135-03-17 23:16 G	8710050.24	8710050.47	8710050.71	0.0088	0.0036

Earth	19135-03-18 02:09 G	8710050.38	8710050.59	8710050.84	0.0088	0.0041	*
Earth	19136-03-19 14:09 G	8710417.87	8710418.09	8710418.33	0.0088	0.0041	
Moon	19136-03-19 16:33 G	8710417.97	8710418.19	8710418.43	0.0088	0.0045	*
Moon	19137-03-22 00:43 G	8710785.31	8710785.53	8710785.77	0.0088	0.0037	
Earth	19137-03-22 02:24 G	8710785.38	8710785.60	8710785.84	0.0088	0.0041	*
Moon	19138-03-24 13:55 G	8711152.87	8711153.08	8711153.33	0.0088	0.0046	
Earth	19138-03-24 14:24 G	8711152.88	8711153.10	8711153.34	0.0088	0.0041	*
Earth	19139-03-27 02:38 G	8711520.38	8711520.61	8711520.84	0.0088	0.0041	
Moon	19139-03-27 03:50 G	8711520.43	8711520.66	8711520.89	0.0088	0.0037	*
Moon	19140-03-28 12:14 G	8711887.81	8711888.01	8711888.26	0.0088	0.0046	
Earth	19140-03-28 14:38 G	8711887.89	8711888.11	8711888.35	0.0088	0.0041	*
Earth	19141-03-31 02:52 G	8712255.40	8712255.62	8712255.86	0.0089	0.0041	
Moon	19141-03-31 05:45 G	8712255.53	8712255.74	8712255.99	0.0089	0.0037	*
Moon	19142-04-02 11:45 G	8712622.77	8712622.99	8712623.22	0.0089	0.0045	
Earth	19142-04-02 15:07 G	8712622.91	8712623.13	8712623.37	0.0089	0.0041	*
Earth	19143-04-05 02:52 G	8712990.41	8712990.62	8712990.87	0.0089	0.0041	
Moon	19143-04-05 06:43 G	8712990.56	8712990.78	8712991.03	0.0089	0.0037	*
Moon	19144-04-06 12:28 G	8713357.81	8713358.02	8713358.24	0.0089	0.0045	
Earth	19144-04-06 15:07 G	8713357.92	8713358.13	8713358.39	0.0089	0.0041	*
Earth	19145-04-09 03:50 G	8713725.43	8713725.66	8713725.90	0.0089	0.0040	
Moon	19145-04-09 06:28 G	8713725.53	8713725.77	8713726.01	0.0089	0.0036	*
Moon	19146-04-11 14:09 G	8714092.89	8714093.09	8714093.33	0.0089	0.0044	
Earth	19146-04-11 15:50 G	8714092.95	8714093.16	8714093.41	0.0089	0.0040	*
Moon	19147-04-14 04:33 G	8714460.45	8714460.69	8714460.94	0.0089	0.0035	
Earth	19147-04-14 04:04 G	8714460.46	8714460.67	8714460.93	0.0089	0.0040	*
Earth	19148-04-15 16:48 G	8714827.98	8714828.20	8714828.45	0.0089	0.0039	
Moon	19148-04-15 17:31 G	8714828.03	8714828.23	8714828.47	0.0089	0.0043	*
Moon	19149-04-18 03:50 G	8715195.41	8715195.66	8715195.91	0.0089	0.0034	
Earth	19149-04-18 05:45 G	8715195.51	8715195.74	8715195.98	0.0089	0.0038	*
Earth	19150-04-20 18:00 G	8715563.03	8715563.25	8715563.50	0.0089	0.0038	

Moon	19150-04-20 21:07 G	8715563.17	8715563.38	8715563.62	0.0089	0.0042 *
Moon	19151-04-23 03:36 G	8715930.41	8715930.65	8715930.90	0.0089	0.0033
Earth	19151-04-23 06:57 G	8715930.56	8715930.79	8715931.03	0.0089	0.0037 *
Earth	19152-04-24 19:40 G	8716298.09	8716298.32	8716298.57	0.0089	0.0036
Moon	19152-04-24 23:16 G	8716298.25	8716298.47	8716298.72	0.0089	0.0040 *
Moon	19153-04-27 05:16 G	8716665.50	8716665.72	8716665.97	0.0089	0.0032
Earth	19153-04-27 08:24 G	8716665.63	8716665.85	8716666.11	0.0089	0.0036 *
Earth	19154-04-29 21:07 G	8717033.15	8717033.38	8717033.63	0.0089	0.0035
Moon	19154-04-29 23:45 G	8717033.27	8717033.49	8717033.75	0.0089	0.0038 *
Moon	19155-05-02 08:09 G	8717400.61	8717400.84	8717401.09	0.0089	0.0031
Earth	19155-05-02 09:50 G	8717400.69	8717400.91	8717401.17	0.0089	0.0034 *
Venus	19156-01-10 22:48 G	8717654.41	8717654.45	8717654.51	0.0089	0.0086
Earth	19156-05-03 22:48 G	8717768.22	8717768.45	8717768.70	0.0089	0.0033
Moon	19156-05-03 23:02 G	8717768.23	8717768.46	8717768.72	0.0089	0.0036 *
Venus	19156-08-23 12:00 G	8717879.87	8717880.00	8717880.16	0.0089	0.0066
Venus	19157-04-06 01:12 G	8718105.37	8718105.55	8718105.75	0.0089	0.0046
Earth	19157-05-06 11:31 G	8718135.75	8718135.98	8718136.24	0.0089	0.0032
Moon	19157-05-06 12:14 G	8718135.78	8718136.01	8718136.26	0.0089	0.0030 *
Venus	19157-11-17 14:24 G	8718330.90	8718331.10	8718331.32	0.0089	0.0026
Moon	19158-05-08 22:33 G	8718503.21	8718503.44	8718503.71	0.0089	0.0034
Earth	19158-05-09 00:28 G	8718503.29	8718503.52	8718503.77	0.0089	0.0031 *
Venus	19158-07-01 03:36 G	8718556.43	8718556.65	8718556.87	0.0089	0.0006
Venus	19159-02-11 17:02 G	8718781.99	8718782.21	8718782.43	0.0089	0.0014
Earth	19159-05-11 13:12 G	8718870.82	8718871.05	8718871.31	0.0089	0.0030
Moon	19159-05-11 16:04 G	8718870.94	8718871.17	8718871.43	0.0089	0.0027 *
Venus	19159-09-25 05:45 G	8719007.55	8719007.74	8719007.96	0.0089	0.0035
Venus	19160-05-07 18:57 G	8719233.13	8719233.29	8719233.48	0.0089	0.0055
Moon	19160-05-12 23:02 G	8719238.23	8719238.46	8719238.72	0.0089	0.0032
Earth	19160-05-13 02:09 G	8719238.36	8719238.59	8719238.85	0.0089	0.0029 *
Venus	19160-12-19 08:09 G	8719458.74	8719458.84	8719458.97	0.0089	0.0075

Earth	19161-05-15 15:07 G	8719605.90	8719606.13	8719606.40	0.0089	0.0028
Moon	19161-05-15 19:12 G	8719606.06	8719606.30	8719606.55	0.0089	0.0026 *
Moon	19162-05-18 01:12 G	8719973.31	8719973.55	8719973.80	0.0089	0.0029
Earth	19162-05-18 04:33 G	8719973.44	8719973.69	8719973.94	0.0089	0.0026 *
Earth	19163-05-20 17:31 G	8720340.99	8720341.23	8720341.49	0.0089	0.0025
Moon	19163-05-20 20:24 G	8720341.11	8720341.35	8720341.62	0.0089	0.0024 *
Mercury	19163-08-30 15:07 G	8720443.13	8720443.13	8720443.16	0.0089	0.0089
Mercury	19163-11-26 17:31 G	8720531.18	8720531.23	8720531.31	0.0089	0.0081
Mercury	19164-02-22 20:09 G	8720619.25	8720619.34	8720619.44	0.0089	0.0072
Mercury	19164-05-20 22:19 G	8720707.33	8720707.43	8720707.56	0.0089	0.0064
Moon	19164-05-22 04:33 G	8720708.47	8720708.69	8720708.95	0.0089	0.0026
Earth	19164-05-22 06:43 G	8720708.55	8720708.78	8720709.05	0.0089	0.0024 *
Mercury	19164-08-17 00:57 G	8720795.41	8720795.54	8720795.67	0.0089	0.0055
Mercury	19164-11-13 03:07 G	8720883.50	8720883.63	8720883.78	0.0089	0.0047
Mercury	19165-02-09 05:45 G	8720971.59	8720971.74	8720971.89	0.0089	0.0038
Mercury	19165-05-08 07:55 G	8721059.68	8721059.83	8721059.99	0.0089	0.0030
Earth	19165-05-24 20:09 G	8721076.09	8721076.34	8721076.60	0.0089	0.0023
Moon	19165-05-24 20:52 G	8721076.11	8721076.37	8721076.63	0.0089	0.0020 *
Mercury	19165-08-04 10:19 G	8721147.78	8721147.93	8721148.09	0.0089	0.0021
Mercury	19165-10-31 12:43 G	8721235.87	8721236.03	8721236.19	0.0089	0.0013
Mercury	19166-01-27 15:07 G	8721323.97	8721324.13	8721324.29	0.0089	0.0004
Mercury	19166-04-25 17:16 G	8721412.06	8721412.22	8721412.38	0.0089	0.0005
Earth	19166-05-27 09:21 G	8721443.64	8721443.89	8721444.15	0.0089	0.0021
Moon	19166-05-27 09:36 G	8721443.66	8721443.90	8721444.14	0.0089	0.0022 *
Mercury	19166-07-22 19:40 G	8721500.16	8721500.32	8721500.48	0.0089	0.0012
Mercury	19166-10-18 21:50 G	8721588.26	8721588.41	8721588.57	0.0089	0.0021
Mercury	19167-01-15 00:14 G	8721676.36	8721676.51	8721676.66	0.0089	0.0029
Mercury	19167-04-13 02:09 G	8721764.46	8721764.59	8721764.75	0.0089	0.0037
Moon	19167-05-29 20:52 G	8721811.12	8721811.37	8721811.64	0.0089	0.0019
Earth	19167-05-29 22:33 G	8721811.19	8721811.44	8721811.70	0.0089	0.0020 *

Mercury	19167-07-10 04:19 G	8721852.56	8721852.68	8721852.83	0.0089	0.0046
Mercury	19167-10-06 06:28 G	8721940.66	8721940.77	8721940.91	0.0089	0.0054
Mercury	19168-01-02 08:52 G	8722028.76	8722028.87	8722028.99	0.0089	0.0061
Mercury	19168-03-30 11:02 G	8722116.87	8722116.96	8722117.07	0.0089	0.0069
Earth	19168-05-31 11:31 G	8722178.74	8722178.98	8722179.25	0.0089	0.0019
Moon	19168-05-31 14:09 G	8722178.86	8722179.09	8722179.35	0.0089	0.0021 *
Mercury	19168-06-26 13:12 G	8722204.98	8722205.05	8722205.14	0.0089	0.0077
Mercury	19168-09-22 15:07 G	8722293.11	8722293.13	8722293.20	0.0089	0.0086
Moon	19169-06-02 21:36 G	8722546.16	8722546.40	8722546.68	0.0089	0.0017
Earth	19169-06-03 00:43 G	8722546.29	8722546.53	8722546.80	0.0089	0.0018 *
Earth	19170-06-05 13:55 G	8722913.83	8722914.08	8722914.34	0.0089	0.0015
Moon	19170-06-05 17:31 G	8722913.99	8722914.23	8722914.49	0.0089	0.0016 *
Moon	19171-06-07 23:45 G	8723281.24	8723281.49	8723281.75	0.0089	0.0013
Earth	19171-06-08 03:07 G	8723281.38	8723281.63	8723281.89	0.0089	0.0014 *
Earth	19172-06-09 16:19 G	8723648.93	8723649.18	8723649.44	0.0089	0.0012
Moon	19172-06-09 19:26 G	8723649.06	8723649.31	8723649.58	0.0089	0.0013 *
Moon	19173-06-12 03:07 G	8724016.38	8724016.63	8724016.89	0.0089	0.0011
Earth	19173-06-12 05:45 G	8724016.48	8724016.74	8724016.99	0.0089	0.0011 *
Earth	19174-06-14 18:43 G	8724384.03	8724384.28	8724384.54	0.0089	0.0009
Moon	19174-06-14 19:40 G	8724384.06	8724384.32	8724384.60	0.0089	0.0010 *
Moon	19175-06-17 07:40 G	8724751.58	8724751.82	8724752.07	0.0089	0.0008
Earth	19175-06-17 08:09 G	8724751.58	8724751.84	8724752.10	0.0089	0.0008 *
Moon	19176-06-18 20:24 G	8725119.08	8725119.35	8725119.62	0.0089	0.0006
Earth	19176-06-18 21:21 G	8725119.14	8725119.39	8725119.66	0.0089	0.0006 *
Jupiter	19176-08-03 20:09 G	8725165.14	8725165.34	8725165.61	0.0089	0.0080
Earth	19177-06-21 10:48 G	8725486.69	8725486.95	8725487.21	0.0089	0.0004
Moon	19177-06-21 13:12 G	8725486.80	8725487.05	8725487.30	0.0089	0.0004 *
Moon	19178-06-23 21:07 G	8725854.12	8725854.38	8725854.65	0.0089	0.0002
Earth	19178-06-24 00:00 G	8725854.24	8725854.50	8725854.76	0.0089	0.0003 *
Earth	19179-06-26 13:12 G	8726221.79	8726222.05	8726222.31	0.0089	0.0001

Moon	19179-06-26 16:48 G	8726221.95	8726222.20	8726222.46	0.0089	0.0002	*
Moon	19180-06-27 23:02 G	8726589.20	8726589.46	8726589.72	0.0090	0.0001	
Earth	19180-06-28 02:24 G	8726589.35	8726589.60	8726589.86	0.0090	0.0002	*
Earth	19181-06-30 15:21 G	8726956.88	8726957.14	8726957.40	0.0090	0.0002	
Moon	19181-06-30 18:57 G	8726957.02	8726957.29	8726957.55	0.0090	0.0001	*
Moon	19182-07-03 01:40 G	8727324.33	8727324.57	8727324.83	0.0090	0.0006	
Earth	19182-07-03 04:33 G	8727324.43	8727324.69	8727324.95	0.0090	0.0004	*
Earth	19183-07-05 17:31 G	8727691.97	8727692.23	8727692.49	0.0090	0.0005	
Moon	19183-07-05 18:57 G	8727692.02	8727692.29	8727692.56	0.0090	0.0004	*
Moon	19184-07-07 05:45 G	8728059.49	8728059.74	8728059.99	0.0090	0.0009	
Earth	19184-07-07 06:28 G	8728059.52	8728059.77	8728060.03	0.0090	0.0007	*
Moon	19185-07-09 18:43 G	8728427.01	8728427.28	8728427.55	0.0090	0.0006	
Earth	19185-07-09 19:26 G	8728427.06	8728427.31	8728427.57	0.0090	0.0009	*
Earth	19186-07-12 08:24 G	8728794.59	8728794.85	8728795.11	0.0090	0.0010	
Moon	19186-07-12 10:19 G	8728794.69	8728794.93	8728795.18	0.0090	0.0012	*
Moon	19187-07-14 18:57 G	8729162.03	8729162.29	8729162.55	0.0090	0.0009	
Earth	19187-07-14 21:21 G	8729162.14	8729162.39	8729162.66	0.0090	0.0012	*
Earth	19188-07-16 10:33 G	8729529.69	8729529.94	8729530.20	0.0089	0.0013	
Moon	19188-07-16 13:55 G	8729529.84	8729530.08	8729530.34	0.0089	0.0016	*
Moon	19189-07-18 19:55 G	8729897.08	8729897.33	8729897.59	0.0089	0.0012	
Earth	19189-07-18 23:31 G	8729897.23	8729897.48	8729897.74	0.0089	0.0014	*
Earth	19190-07-21 12:28 G	8730264.77	8730265.02	8730265.28	0.0089	0.0016	
Moon	19190-07-21 15:50 G	8730264.92	8730265.16	8730265.42	0.0089	0.0019	*
Moon	19191-07-23 22:33 G	8730632.20	8730632.44	8730632.70	0.0089	0.0015	
Earth	19191-07-24 01:12 G	8730632.31	8730632.55	8730632.82	0.0089	0.0018	*
Earth	19192-07-25 14:09 G	8730999.84	8731000.09	8731000.35	0.0089	0.0019	
Moon	19192-07-25 15:50 G	8730999.91	8731000.16	8731000.43	0.0089	0.0022	*
Moon	19193-07-28 01:55 G	8731367.34	8731367.58	8731367.83	0.0089	0.0017	
Earth	19193-07-28 02:38 G	8731367.37	8731367.61	8731367.88	0.0089	0.0021	*
Moon	19194-07-30 14:38 G	8731734.87	8731735.11	8731735.38	0.0089	0.0025	



Earth	19194-07-30 15:21 G	8731734.90	8731735.14	8731735.40	0.0089	0.0022	*
Earth	19195-08-02 04:04 G	8732102.43	8732102.67	8732102.92	0.0089	0.0023	
Moon	19195-08-02 05:45 G	8732102.50	8732102.74	8732102.99	0.0089	0.0020	*
Moon	19196-08-03 14:09 G	8732469.85	8732470.09	8732470.35	0.0089	0.0028	
Earth	19196-08-03 16:48 G	8732469.95	8732470.20	8732470.45	0.0089	0.0024	*
Earth	19197-08-06 04:48 G	8732837.47	8732837.70	8732837.96	0.0089	0.0026	
Moon	19197-08-06 08:24 G	8732837.61	8732837.85	8732838.11	0.0089	0.0022	*
Moon	19198-08-08 14:09 G	8733204.85	8733205.09	8733205.34	0.0089	0.0030	
Earth	19198-08-08 17:31 G	8733205.00	8733205.23	8733205.49	0.0089	0.0027	*
Earth	19199-08-11 06:00 G	8733572.52	8733572.75	8733573.01	0.0089	0.0028	
Moon	19199-08-11 09:36 G	8733572.66	8733572.90	8733573.16	0.0089	0.0024	*
Moon	19200-08-12 15:50 G	8733939.93	8733940.16	8733940.40	0.0089	0.0033	
Earth	19200-08-12 18:43 G	8733940.04	8733940.28	8733940.53	0.0089	0.0029	*
Earth	19201-08-15 07:12 G	8734307.56	8734307.80	8734308.05	0.0089	0.0030	
Moon	19201-08-15 09:21 G	8734307.64	8734307.89	8734308.14	0.0089	0.0026	*
Moon	19202-08-17 18:28 G	8734675.04	8734675.27	8734675.50	0.0089	0.0035	
Earth	19202-08-17 19:40 G	8734675.08	8734675.32	8734675.57	0.0089	0.0031	*
Moon	19203-08-20 07:40 G	8735042.57	8735042.82	8735043.08	0.0089	0.0027	
Earth	19203-08-20 08:09 G	8735042.60	8735042.84	8735043.09	0.0089	0.0032	*
Earth	19204-08-21 20:24 G	8735410.12	8735410.35	8735410.60	0.0089	0.0032	
Moon	19204-08-21 21:36 G	8735410.19	8735410.40	8735410.64	0.0089	0.0037	*
Moon	19205-08-24 06:00 G	8735777.52	8735777.75	8735778.02	0.0089	0.0029	
Earth	19205-08-24 08:24 G	8735777.62	8735777.85	8735778.10	0.0089	0.0033	*
Earth	19206-08-26 20:24 G	8736145.13	8736145.35	8736145.60	0.0089	0.0034	
Moon	19206-08-26 23:45 G	8736145.28	8736145.49	8736145.73	0.0089	0.0039	*
Moon	19207-08-29 05:16 G	8736512.49	8736512.72	8736512.97	0.0089	0.0031	
Earth	19207-08-29 08:24 G	8736512.63	8736512.85	8736513.11	0.0089	0.0035	*
Earth	19208-08-30 20:24 G	8736880.13	8736880.35	8736880.60	0.0089	0.0036	
Moon	19208-08-31 00:00 G	8736880.28	8736880.50	8736880.74	0.0089	0.0040	*
Moon	19209-09-02 05:45 G	8737247.51	8737247.74	8737247.98	0.0089	0.0032	

Earth	19209-09-02 08:24 G	8737247.63	8737247.85	8737248.10	0.0089	0.0036 *
Earth	19210-09-04 20:24 G	8737615.12	8737615.35	8737615.59	0.0089	0.0036
Moon	19210-09-04 22:33 G	8737615.21	8737615.44	8737615.68	0.0089	0.0041 *
Moon	19211-09-07 06:43 G	8737982.56	8737982.78	8737983.03	0.0089	0.0033
Earth	19211-09-07 07:55 G	8737982.61	8737982.83	8737983.08	0.0089	0.0038 *
Mars	19212-07-20 20:24 G	8738300.10	8738300.35	8738300.61	0.0089	0.0047
Moon	19212-09-08 19:12 G	8738350.09	8738350.30	8738350.55	0.0089	0.0042
Earth	19212-09-08 19:55 G	8738350.11	8738350.33	8738350.57	0.0089	0.0037 *
Earth	19213-09-11 07:26 G	8738717.59	8738717.81	8738718.06	0.0089	0.0038
Moon	19213-09-11 08:52 G	8738717.65	8738717.87	8738718.11	0.0089	0.0034 *
Mars	19214-06-15 00:57 G	8738994.28	8738994.54	8738994.84	0.0089	0.0033
Moon	19214-09-13 16:48 G	8739084.99	8739085.20	8739085.45	0.0089	0.0043
Earth	19214-09-13 19:26 G	8739085.09	8739085.31	8739085.55	0.0089	0.0038 *
Earth	19215-09-16 07:26 G	8739452.58	8739452.81	8739453.04	0.0089	0.0038
Moon	19215-09-16 10:19 G	8739452.72	8739452.93	8739453.18	0.0089	0.0034 *
Moon	19216-09-17 15:07 G	8739819.92	8739820.13	8739820.37	0.0089	0.0043
Earth	19216-09-17 18:28 G	8739820.06	8739820.27	8739820.52	0.0089	0.0039 *
Earth	19217-09-20 06:00 G	8740187.54	8740187.75	8740188.00	0.0089	0.0039
Moon	19217-09-20 09:50 G	8740187.68	8740187.91	8740188.16	0.0089	0.0034 *
Moon	19218-09-22 14:38 G	8740554.91	8740555.11	8740555.35	0.0089	0.0044
Earth	19218-09-22 17:31 G	8740555.02	8740555.23	8740555.48	0.0089	0.0039 *
Earth	19219-09-25 04:48 G	8740922.49	8740922.70	8740922.95	0.0089	0.0039
Moon	19219-09-25 06:57 G	8740922.56	8740922.79	8740923.05	0.0089	0.0035 *
Moon	19220-09-26 15:07 G	8741289.92	8741290.13	8741290.35	0.0089	0.0043
Earth	19220-09-26 16:04 G	8741289.96	8741290.17	8741290.42	0.0089	0.0039 *
Moon	19221-09-29 02:38 G	8741657.38	8741657.61	8741657.87	0.0089	0.0034
Earth	19221-09-29 03:07 G	8741657.42	8741657.63	8741657.88	0.0089	0.0039 *
Earth	19222-10-01 14:38 G	8742024.88	8742025.11	8742025.34	0.0089	0.0038
Moon	19222-10-01 15:36 G	8742024.95	8742025.15	8742025.39	0.0089	0.0043 *
Moon	19223-10-03 23:02 G	8742392.23	8742392.46	8742392.72	0.0089	0.0034

Earth	19223-10-04 01:55 G	8742392.35	8742392.58	8742392.81	0.0089	0.0038	*
Earth	19224-10-05 12:28 G	8742759.80	8742760.02	8742760.26	0.0089	0.0038	
Moon	19224-10-05 15:50 G	8742759.95	8742760.16	8742760.39	0.0089	0.0043	*
Moon	19225-10-07 19:55 G	8743127.11	8743127.33	8743127.59	0.0089	0.0034	
Earth	19225-10-07 23:31 G	8743127.26	8743127.48	8743127.73	0.0089	0.0038	*
Earth	19226-10-10 10:19 G	8743494.72	8743494.93	8743495.19	0.0089	0.0038	
Moon	19226-10-10 14:09 G	8743494.88	8743495.09	8743495.33	0.0089	0.0042	*
Moon	19227-10-12 18:57 G	8743862.07	8743862.29	8743862.54	0.0089	0.0033	
Earth	19227-10-12 21:50 G	8743862.18	8743862.41	8743862.65	0.0089	0.0037	*
Earth	19228-10-14 08:24 G	8744229.64	8744229.85	8744230.10	0.0089	0.0037	
Moon	19228-10-14 10:19 G	8744229.72	8744229.93	8744230.19	0.0089	0.0041	*
Moon	19229-10-16 18:28 G	8744597.05	8744597.27	8744597.52	0.0089	0.0032	
Earth	19229-10-16 19:26 G	8744597.09	8744597.31	8744597.56	0.0089	0.0036	*
Moon	19230-10-19 05:16 G	8744964.50	8744964.72	8744964.98	0.0088	0.0040	
Earth	19230-10-19 06:00 G	8744964.54	8744964.75	8744965.01	0.0088	0.0036	*
Earth	19231-10-21 17:02 G	8745331.98	8745332.21	8745332.46	0.0088	0.0035	
Moon	19231-10-21 18:28 G	8745332.05	8745332.27	8745332.52	0.0088	0.0031	*
Moon	19232-10-23 00:43 G	8745699.31	8745699.53	8745699.78	0.0088	0.0039	
Earth	19232-10-23 03:36 G	8745699.42	8745699.65	8745699.90	0.0088	0.0034	*
Earth	19233-10-25 13:55 G	8746066.86	8746067.08	8746067.34	0.0088	0.0034	
Moon	19233-10-25 17:45 G	8746067.01	8746067.24	8746067.49	0.0088	0.0028	*
Moon	19234-10-27 21:21 G	8746434.17	8746434.39	8746434.64	0.0088	0.0037	
Earth	19234-10-28 00:43 G	8746434.31	8746434.53	8746434.78	0.0088	0.0033	*
Earth	19235-10-30 11:16 G	8746801.74	8746801.97	8746802.22	0.0088	0.0032	
Moon	19235-10-30 14:38 G	8746801.88	8746802.11	8746802.37	0.0088	0.0028	*
Moon	19236-10-31 19:12 G	8747169.09	8747169.30	8747169.55	0.0088	0.0036	
Earth	19236-10-31 21:50 G	8747169.18	8747169.41	8747169.66	0.0088	0.0031	*
Venus	19237-07-16 07:26 G	8747426.75	8747426.81	8747426.91	0.0088	0.0081	
Earth	19237-11-03 08:24 G	8747536.62	8747536.85	8747537.10	0.0088	0.0030	
Moon	19237-11-03 09:50 G	8747536.68	8747536.91	8747537.18	0.0088	0.0027	*

Venus	19238-02-26 20:24 G	8747652.21	8747652.35	8747652.52	0.0088	0.0062
Venus	19238-10-10 09:07 G	8747877.71	8747877.88	8747878.09	0.0088	0.0042
Moon	19238-11-05 18:28 G	8747904.04	8747904.27	8747904.50	0.0088	0.0033
Earth	19238-11-05 18:57 G	8747904.05	8747904.29	8747904.54	0.0088	0.0029 *
Venus	19239-05-23 22:04 G	8748103.22	8748103.42	8748103.64	0.0088	0.0023
Moon	19239-11-08 04:19 G	8748271.43	8748271.68	8748271.94	0.0088	0.0023
Earth	19239-11-08 05:31 G	8748271.49	8748271.73	8748271.98	0.0088	0.0028 *
Venus	19240-01-04 11:02 G	8748328.74	8748328.96	8748329.18	0.0088	0.0003
Venus	19240-08-17 00:00 G	8748554.29	8748554.50	8748554.72	0.0088	0.0017
Earth	19240-11-09 15:50 G	8748638.93	8748639.16	8748639.42	0.0088	0.0027
Moon	19240-11-09 17:45 G	8748639.02	8748639.24	8748639.48	0.0088	0.0030 *
Venus	19241-03-30 12:28 G	8748779.84	8748780.02	8748780.24	0.0088	0.0037
Venus	19241-11-11 01:26 G	8749005.40	8749005.56	8749005.74	0.0088	0.0056
Moon	19241-11-11 23:31 G	8749006.23	8749006.48	8749006.74	0.0088	0.0021
Earth	19241-11-12 02:38 G	8749006.37	8749006.61	8749006.86	0.0088	0.0025 *
Venus	19242-06-24 13:40 G	8749230.99	8749231.07	8749231.21	0.0088	0.0077
Earth	19242-11-14 12:43 G	8749373.80	8749374.03	8749374.29	0.0088	0.0025
Moon	19242-11-14 16:33 G	8749373.95	8749374.19	8749374.43	0.0088	0.0029 *
Moon	19243-11-16 19:40 G	8749741.08	8749741.32	8749741.58	0.0088	0.0020
Earth	19243-11-16 23:02 G	8749741.23	8749741.46	8749741.72	0.0088	0.0024 *
Earth	19244-11-18 09:21 G	8750108.65	8750108.89	8750109.15	0.0088	0.0022
Moon	19244-11-18 12:43 G	8750108.79	8750109.03	8750109.29	0.0088	0.0026 *
Mercury	19245-02-26 19:40 G	8750209.29	8750209.32	8750209.38	0.0088	0.0084
Mercury	19245-05-25 21:50 G	8750297.34	8750297.41	8750297.48	0.0088	0.0076
Mercury	19245-08-21 23:31 G	8750385.40	8750385.48	8750385.58	0.0088	0.0069
Mercury	19245-11-18 01:26 G	8750473.46	8750473.56	8750473.68	0.0088	0.0062
Moon	19245-11-20 17:45 G	8750476.00	8750476.24	8750476.49	0.0088	0.0017
Earth	19245-11-20 19:40 G	8750476.08	8750476.32	8750476.58	0.0088	0.0021 *
Mercury	19246-02-14 03:36 G	8750561.53	8750561.65	8750561.77	0.0088	0.0054
Mercury	19246-05-13 05:16 G	8750649.60	8750649.72	8750649.86	0.0088	0.0047

Mercury	19246-08-09 07:12 G	8750737.67	8750737.80	8750737.94	0.0088	0.0040
Mercury	19246-11-05 09:07 G	8750825.75	8750825.88	8750826.03	0.0088	0.0032
Earth	19246-11-23 06:00 G	8750843.50	8750843.75	8750844.00	0.0088	0.0019
Moon	19246-11-23 07:12 G	8750843.55	8750843.80	8750844.07	0.0088	0.0023 *
Mercury	19247-02-01 11:02 G	8750913.82	8750913.96	8750914.12	0.0088	0.0025
Mercury	19247-04-30 13:12 G	8751001.90	8751002.05	8751002.20	0.0088	0.0017
Mercury	19247-07-27 15:07 G	8751089.98	8751090.13	8751090.29	0.0088	0.0010
Mercury	19247-10-23 17:02 G	8751178.06	8751178.21	8751178.37	0.0088	0.0003
Earth	19247-11-25 16:04 G	8751210.93	8751211.17	8751211.43	0.0088	0.0018
Moon	19247-11-25 16:04 G	8751210.93	8751211.17	8751211.42	0.0088	0.0014 *
Mercury	19248-01-19 19:12 G	8751266.14	8751266.30	8751266.45	0.0088	0.0006
Mercury	19248-04-16 21:07 G	8751354.23	8751354.38	8751354.53	0.0088	0.0013
Mercury	19248-07-13 23:02 G	8751442.31	8751442.46	8751442.61	0.0088	0.0021
Mercury	19248-10-10 00:57 G	8751530.40	8751530.54	8751530.69	0.0088	0.0029
Moon	19248-11-27 00:28 G	8751578.27	8751578.52	8751578.79	0.0088	0.0021
Earth	19248-11-27 02:09 G	8751578.35	8751578.59	8751578.85	0.0088	0.0017 *
Mercury	19249-01-06 03:07 G	8751618.49	8751618.63	8751618.77	0.0088	0.0036
Mercury	19249-04-04 05:02 G	8751706.58	8751706.71	8751706.85	0.0088	0.0044
Mercury	19249-07-01 06:57 G	8751794.67	8751794.79	8751794.93	0.0088	0.0052
Mercury	19249-09-27 08:52 G	8751882.77	8751882.87	8751883.00	0.0088	0.0060
Earth	19249-11-29 12:14 G	8751945.77	8751946.01	8751946.28	0.0088	0.0016
Moon	19249-11-29 14:38 G	8751945.87	8751946.11	8751946.36	0.0088	0.0012 *
Mercury	19249-12-24 10:48 G	8751970.87	8751970.95	8751971.07	0.0088	0.0068
Mercury	19250-03-22 13:12 G	8752058.98	8752059.05	8752059.14	0.0088	0.0075
Mercury	19250-06-18 15:21 G	8752147.10	8752147.14	8752147.19	0.0088	0.0083
Moon	19250-12-01 19:26 G	8752313.06	8752313.31	8752313.57	0.0088	0.0018
Earth	19250-12-01 22:48 G	8752313.20	8752313.45	8752313.71	0.0088	0.0014 *
Earth	19251-12-04 08:52 G	8752680.62	8752680.87	8752681.13	0.0088	0.0013
Moon	19251-12-04 12:28 G	8752680.77	8752681.02	8752681.28	0.0088	0.0009 *
Moon	19252-12-05 15:50 G	8753047.92	8753048.16	8753048.42	0.0088	0.0015

Earth	19252-12-05 19:26 G	8753048.05	8753048.31	8753048.56	0.0088	0.0011	*
Earth	19253-12-08 05:31 G	8753415.48	8753415.73	8753415.99	0.0088	0.0010	
Moon	19253-12-08 08:38 G	8753415.61	8753415.86	8753416.13	0.0088	0.0007	*
Moon	19254-12-10 14:09 G	8753782.85	8753783.09	8753783.34	0.0088	0.0012	
Earth	19254-12-10 15:36 G	8753782.91	8753783.15	8753783.42	0.0088	0.0009	*
Earth	19255-12-13 01:55 G	8754150.33	8754150.58	8754150.84	0.0088	0.0007	
Moon	19255-12-13 03:07 G	8754150.36	8754150.63	8754150.89	0.0088	0.0004	*
Earth	19256-12-14 12:00 G	8754517.75	8754518.00	8754518.26	0.0088	0.0006	
Moon	19256-12-14 12:28 G	8754517.77	8754518.02	8754518.27	0.0088	0.0009	*
Moon	19257-12-16 20:09 G	8754885.08	8754885.34	8754885.61	0.0088	0.0001	
Earth	19257-12-16 22:19 G	8754885.17	8754885.43	8754885.69	0.0088	0.0004	*
Earth	19258-12-19 08:24 G	8755252.59	8755252.85	8755253.11	0.0088	0.0003	
Moon	19258-12-19 10:48 G	8755252.70	8755252.95	8755253.20	0.0088	0.0006	*
Moon	19259-12-21 14:52 G	8755619.86	8755620.12	8755620.38	0.0088	0.0002	
Earth	19259-12-21 18:28 G	8755620.01	8755620.27	8755620.53	0.0088	0.0002	*
Earth	19260-12-23 04:33 G	8755987.43	8755987.69	8755987.95	0.0088	0.0000	
Moon	19260-12-23 08:09 G	8755987.58	8755987.84	8755988.10	0.0088	0.0004	*
Moon	19261-12-25 11:31 G	8756354.73	8756354.98	8756355.24	0.0088	0.0004	
Earth	19261-12-25 14:52 G	8756354.86	8756355.12	8756355.37	0.0088	0.0002	*
Earth	19262-12-28 00:43 G	8756722.28	8756722.53	8756722.79	0.0088	0.0003	
Moon	19262-12-28 03:36 G	8756722.39	8756722.65	8756722.92	0.0088	0.0001	*
Moon	19263-12-30 09:50 G	8757089.66	8757089.91	8757090.16	0.0088	0.0008	
Earth	19263-12-30 11:02 G	8757089.71	8757089.96	8757090.22	0.0088	0.0004	*
Earth	19264-12-31 21:21 G	8757457.14	8757457.39	8757457.65	0.0088	0.0006	
Moon	19264-12-31 21:50 G	8757457.15	8757457.41	8757457.68	0.0088	0.0003	*
Earth	19266-01-03 07:40 G	8757824.57	8757824.82	8757825.08	0.0088	0.0007	
Moon	19266-01-03 08:38 G	8757824.61	8757824.86	8757825.11	0.0088	0.0010	*
Moon	19267-01-05 15:36 G	8758191.89	8758192.15	8758192.42	0.0088	0.0005	
Earth	19267-01-05 18:00 G	8758192.00	8758192.25	8758192.51	0.0088	0.0009	*
Earth	19268-01-08 04:19 G	8758559.43	8758559.68	8758559.94	0.0088	0.0010	

Moon	19268-01-08 06:57 G	8758559.55	8758559.79	8758560.05	0.0088	0.0013	*
Moon	19269-01-09 11:16 G	8758926.71	8758926.97	8758927.23	0.0088	0.0008	
Earth	19269-01-09 14:52 G	8758926.87	8758927.12	8758927.38	0.0088	0.0011	*
Earth	19270-01-12 00:57 G	8759294.29	8759294.54	8759294.80	0.0088	0.0013	
Moon	19270-01-12 04:33 G	8759294.44	8759294.69	8759294.95	0.0088	0.0016	*
Moon	19271-01-14 08:09 G	8759661.60	8759661.84	8759662.10	0.0088	0.0012	
Earth	19271-01-14 11:31 G	8759661.73	8759661.98	8759662.23	0.0088	0.0014	*
Earth	19272-01-16 21:50 G	8760029.16	8760029.41	8760029.66	0.0088	0.0015	
Moon	19272-01-17 00:14 G	8760029.26	8760029.51	8760029.77	0.0088	0.0018	*
Moon	19273-01-18 07:12 G	8760396.57	8760396.80	8760397.06	0.0088	0.0014	
Earth	19273-01-18 08:09 G	8760396.59	8760396.84	8760397.10	0.0088	0.0017	*
Moon	19274-01-20 18:43 G	8760764.02	8760764.28	8760764.55	0.0088	0.0020	
Earth	19274-01-20 18:28 G	8760764.03	8760764.27	8760764.53	0.0088	0.0018	*
Earth	19275-01-23 05:02 G	8761131.47	8761131.71	8761131.97	0.0088	0.0019	
Moon	19275-01-23 06:14 G	8761131.53	8761131.76	8761132.02	0.0088	0.0017	*
Moon	19276-01-25 12:43 G	8761498.79	8761499.03	8761499.30	0.0088	0.0024	
Earth	19276-01-25 15:50 G	8761498.91	8761499.16	8761499.41	0.0088	0.0020	*
Earth	19277-01-27 02:09 G	8761866.35	8761866.59	8761866.85	0.0088	0.0022	
Moon	19277-01-27 05:16 G	8761866.48	8761866.72	8761866.97	0.0088	0.0019	*
Moon	19278-01-29 09:36 G	8762233.65	8762233.90	8762234.15	0.0088	0.0025	
Earth	19278-01-29 12:57 G	8762233.81	8762234.04	8762234.30	0.0088	0.0023	*
Earth	19279-01-31 23:45 G	8762601.25	8762601.49	8762601.75	0.0088	0.0024	
Moon	19279-02-01 03:07 G	8762601.38	8762601.63	8762601.89	0.0088	0.0021	*
Moon	19280-02-03 07:40 G	8762968.59	8762968.82	8762969.07	0.0088	0.0027	
Earth	19280-02-03 10:33 G	8762968.71	8762968.94	8762969.20	0.0088	0.0025	*
Earth	19281-02-04 21:21 G	8763336.16	8763336.39	8763336.65	0.0088	0.0026	
Moon	19281-02-04 23:31 G	8763336.24	8763336.48	8763336.75	0.0088	0.0024	*
Moon	19282-02-07 07:55 G	8763703.60	8763703.83	8763704.07	0.0088	0.0029	
Earth	19282-02-07 08:09 G	8763703.61	8763703.84	8763704.10	0.0088	0.0027	*
Moon	19283-02-09 18:57 G	8764071.04	8764071.29	8764071.55	0.0088	0.0026	

Earth	19283-02-09 19:12 G	8764071.06	8764071.30	8764071.55	0.0088	0.0028	*
Earth	19284-02-12 05:45 G	8764438.51	8764438.74	8764439.00	0.0088	0.0029	
Moon	19284-02-12 07:26 G	8764438.59	8764438.81	8764439.06	0.0088	0.0031	*
Moon	19285-02-13 13:55 G	8764805.84	8764806.08	8764806.35	0.0088	0.0027	
Earth	19285-02-13 16:48 G	8764805.98	8764806.20	8764806.46	0.0088	0.0030	*
Earth	19286-02-16 04:04 G	8765173.43	8765173.67	8765173.92	0.0088	0.0030	
Moon	19286-02-16 06:57 G	8765173.57	8765173.79	8765174.04	0.0088	0.0032	*
Moon	19287-02-18 11:02 G	8765540.73	8765540.96	8765541.22	0.0088	0.0029	
Earth	19287-02-18 14:52 G	8765540.89	8765541.12	8765541.37	0.0088	0.0031	*
Earth	19288-02-21 01:55 G	8765908.35	8765908.58	8765908.83	0.0088	0.0032	
Moon	19288-02-21 05:02 G	8765908.49	8765908.71	8765908.97	0.0088	0.0034	*
Moon	19289-02-22 10:04 G	8766275.70	8766275.92	8766276.18	0.0088	0.0032	
Earth	19289-02-22 12:57 G	8766275.82	8766276.04	8766276.30	0.0088	0.0033	*
Earth	19290-02-25 00:28 G	8766643.29	8766643.52	8766643.76	0.0088	0.0033	
Moon	19290-02-25 02:09 G	8766643.36	8766643.59	8766643.85	0.0088	0.0035	*
Moon	19291-02-27 11:31 G	8767010.75	8767010.98	8767011.22	0.0088	0.0032	
Earth	19291-02-27 11:45 G	8767010.76	8767010.99	8767011.24	0.0088	0.0034	*
Moon	19292-02-29 22:48 G	8767378.21	8767378.45	8767378.71	0.0088	0.0036	
Earth	19292-02-29 23:16 G	8767378.24	8767378.47	8767378.71	0.0088	0.0035	*
Earth	19293-03-03 10:33 G	8767745.72	8767745.94	8767746.19	0.0088	0.0035	
Moon	19293-03-03 12:14 G	8767745.80	8767746.01	8767746.26	0.0088	0.0034	*
Moon	19294-03-05 19:12 G	8768113.07	8768113.30	8768113.55	0.0088	0.0037	
Earth	19294-03-05 22:19 G	8768113.20	8768113.43	8768113.67	0.0088	0.0035	*
Earth	19295-03-08 09:21 G	8768480.67	8768480.89	8768481.14	0.0088	0.0036	
Moon	19295-03-08 12:43 G	8768480.81	8768481.03	8768481.27	0.0088	0.0035	*
Moon	19296-03-09 17:16 G	8768848.00	8768848.22	8768848.47	0.0088	0.0037	
Earth	19296-03-09 21:07 G	8768848.16	8768848.38	8768848.63	0.0088	0.0036	*
Mars	19296-05-14 12:43 G	8768913.72	8768914.03	8768914.37	0.0088	0.0020	
Earth	19297-03-12 08:38 G	8769215.64	8769215.86	8769216.11	0.0088	0.0037	
Moon	19297-03-12 12:00 G	8769215.77	8769216.00	8769216.25	0.0088	0.0035	*



Moon	19298-03-14 17:02 G	8769583.01	8769583.21	8769583.46	0.0088	0.0038
Earth	19298-03-14 20:24 G	8769583.12	8769583.35	8769583.59	0.0088	0.0037 *
Mars	19298-04-09 21:50 G	8769609.23	8769609.41	8769609.67	0.0088	0.0066
Earth	19299-03-17 07:40 G	8769950.60	8769950.82	8769951.07	0.0088	0.0037
Moon	19299-03-17 09:36 G	8769950.67	8769950.90	8769951.16	0.0088	0.0037 *
Moon	19300-03-19 19:26 G	8770318.09	8770318.31	8770318.54	0.0088	0.0038
Earth	19300-03-19 19:26 G	8770318.09	8770318.31	8770318.56	0.0088	0.0037 *
Moon	19301-03-22 06:43 G	8770685.56	8770685.78	8770686.05	0.0088	0.0038
Earth	19301-03-22 07:12 G	8770685.58	8770685.80	8770686.05	0.0088	0.0038 *
Earth	19302-03-24 19:12 G	8771053.08	8771053.30	8771053.55	0.0088	0.0037
Moon	19302-03-24 21:07 G	8771053.17	8771053.38	8771053.62	0.0088	0.0038 *
Moon	19303-03-27 04:04 G	8771420.45	8771420.67	8771420.93	0.0088	0.0037
Earth	19303-03-27 06:57 G	8771420.58	8771420.79	8771421.05	0.0088	0.0038 *
Earth	19304-03-28 19:12 G	8771788.08	8771788.30	8771788.55	0.0088	0.0037
Moon	19304-03-28 22:33 G	8771788.22	8771788.44	8771788.68	0.0088	0.0037 *
Moon	19305-03-31 04:04 G	8772155.44	8772155.67	8772155.91	0.0089	0.0037
Earth	19305-03-31 07:55 G	8772155.60	8772155.83	8772156.07	0.0089	0.0037 *
Earth	19306-04-02 19:40 G	8772523.10	8772523.32	8772523.57	0.0089	0.0037
Moon	19306-04-02 22:48 G	8772523.23	8772523.45	8772523.71	0.0089	0.0037 *
Moon	19307-04-05 05:02 G	8772890.49	8772890.71	8772890.95	0.0089	0.0038
Earth	19307-04-05 07:55 G	8772890.61	8772890.83	8772891.08	0.0089	0.0037 *
Earth	19308-04-06 20:38 G	8773258.12	8773258.36	8773258.59	0.0089	0.0036
Moon	19308-04-06 21:50 G	8773258.19	8773258.41	8773258.68	0.0089	0.0036 *
Moon	19309-04-09 07:55 G	8773625.62	8773625.83	8773626.08	0.0089	0.0037
Earth	19309-04-09 08:24 G	8773625.63	8773625.85	8773626.10	0.0089	0.0036 *
Moon	19310-04-11 20:38 G	8773993.12	8773993.36	8773993.62	0.0089	0.0034
Earth	19310-04-11 20:38 G	8773993.14	8773993.36	8773993.62	0.0089	0.0036 *
Earth	19311-04-14 09:07 G	8774360.65	8774360.88	8774361.13	0.0089	0.0035
Moon	19311-04-14 11:02 G	8774360.74	8774360.96	8774361.20	0.0089	0.0036 *
Moon	19312-04-15 18:43 G	8774728.05	8774728.28	8774728.54	0.0089	0.0034

Earth	19312-04-15 21:50 G	8774728.17	8774728.41	8774728.65	0.0089	0.0034 *
Earth	19313-04-18 10:04 G	8775095.69	8775095.92	8775096.17	0.0089	0.0034
Moon	19313-04-18 13:12 G	8775095.83	8775096.05	8775096.30	0.0089	0.0036 *
Moon	19314-04-20 18:43 G	8775463.05	8775463.28	8775463.54	0.0089	0.0032
Earth	19314-04-20 22:33 G	8775463.21	8775463.44	8775463.69	0.0089	0.0033 *
Earth	19315-04-23 11:31 G	8775830.74	8775830.98	8775831.22	0.0089	0.0032
Moon	19315-04-23 14:38 G	8775830.88	8775831.11	8775831.36	0.0089	0.0034 *
Moon	19316-04-24 21:07 G	8776198.15	8776198.38	8776198.63	0.0089	0.0029
Earth	19316-04-25 00:00 G	8776198.27	8776198.50	8776198.76	0.0089	0.0032 *
Earth	19317-04-27 12:43 G	8776565.80	8776566.03	8776566.29	0.0089	0.0031
Moon	19317-04-27 14:38 G	8776565.88	8776566.11	8776566.38	0.0089	0.0033 *
Moon	19318-04-30 00:57 G	8776933.31	8776933.54	8776933.79	0.0089	0.0028
Earth	19318-04-30 01:40 G	8776933.34	8776933.57	8776933.83	0.0089	0.0030 *
Moon	19319-05-02 14:24 G	8777300.86	8777301.10	8777301.37	0.0089	0.0032
Earth	19319-05-02 14:24 G	8777300.87	8777301.10	8777301.36	0.0089	0.0029 *
Earth	19320-05-04 03:21 G	8777668.41	8777668.64	8777668.90	0.0089	0.0028
Moon	19320-05-04 05:02 G	8777668.48	8777668.71	8777668.97	0.0089	0.0026 *
Venus	19320-11-25 20:09 G	8777874.25	8777874.34	8777874.47	0.0089	0.0077
Moon	19321-05-06 13:40 G	8778035.83	8778036.07	8778036.33	0.0089	0.0029
Earth	19321-05-06 16:19 G	8778035.94	8778036.18	8778036.44	0.0089	0.0027 *
Venus	19321-07-09 09:50 G	8778099.74	8778099.91	8778100.08	0.0089	0.0056
Venus	19322-02-19 23:02 G	8778325.27	8778325.46	8778325.67	0.0089	0.0036
Earth	19322-05-09 05:02 G	8778403.47	8778403.71	8778403.97	0.0089	0.0026
Moon	19322-05-09 07:55 G	8778403.60	8778403.83	8778404.09	0.0089	0.0023 *
Venus	19322-10-03 12:14 G	8778550.80	8778551.01	8778551.23	0.0089	0.0016
Moon	19323-05-11 14:09 G	8778770.86	8778771.09	8778771.35	0.0089	0.0028
Earth	19323-05-11 18:00 G	8778771.01	8778771.25	8778771.51	0.0089	0.0025 *
Venus	19323-05-17 01:26 G	8778776.34	8778776.56	8778776.78	0.0089	0.0004
Venus	19323-12-28 14:24 G	8779001.90	8779002.10	8779002.32	0.0089	0.0024
Earth	19324-05-13 06:57 G	8779138.55	8779138.79	8779139.05	0.0089	0.0024

Moon	19324-05-13 10:33 G	8779138.69	8779138.94	8779139.20	0.0089	0.0021 *
Venus	19324-08-10 03:36 G	8779227.47	8779227.65	8779227.85	0.0089	0.0044
Venus	19325-03-23 17:02 G	8779453.06	8779453.21	8779453.36	0.0089	0.0065
Moon	19325-05-15 16:33 G	8779505.96	8779506.19	8779506.45	0.0089	0.0027
Earth	19325-05-15 20:09 G	8779506.09	8779506.34	8779506.59	0.0089	0.0023 *
Venus	19325-11-04 05:31 G	8779678.70	8779678.73	8779678.83	0.0089	0.0086
Earth	19326-05-18 08:52 G	8779873.63	8779873.87	8779874.13	0.0089	0.0022
Moon	19326-05-18 11:02 G	8779873.71	8779873.96	8779874.23	0.0089	0.0018 *
Moon	19327-05-20 20:52 G	8780241.14	8780241.37	8780241.62	0.0089	0.0024
Earth	19327-05-20 21:50 G	8780241.17	8780241.41	8780241.68	0.0089	0.0021 *
Earth	19328-05-22 11:02 G	8780608.72	8780608.96	8780609.22	0.0089	0.0019
Moon	19328-05-22 11:31 G	8780608.72	8780608.98	8780609.25	0.0089	0.0015 *
Mercury	19328-05-27 13:40 G	8780614.05	8780614.07	8780614.10	0.0089	0.0088
Mercury	19328-08-23 15:50 G	8780702.10	8780702.16	8780702.25	0.0089	0.0079
Mercury	19328-11-19 18:28 G	8780790.18	8780790.27	8780790.37	0.0089	0.0070
Mercury	19329-02-15 20:38 G	8780878.26	8780878.36	8780878.49	0.0089	0.0062
Mercury	19329-05-14 23:16 G	8780966.34	8780966.47	8780966.60	0.0089	0.0053
Earth	19329-05-25 00:28 G	8780976.26	8780976.52	8780976.77	0.0089	0.0018
Moon	19329-05-25 01:40 G	8780976.33	8780976.57	8780976.82	0.0089	0.0021 *
Mercury	19329-08-11 01:26 G	8781054.43	8781054.56	8781054.71	0.0089	0.0045
Mercury	19329-11-07 04:04 G	8781142.52	8781142.67	8781142.82	0.0089	0.0036
Mercury	19330-02-03 06:14 G	8781230.62	8781230.76	8781230.92	0.0089	0.0029
Mercury	19330-05-02 08:52 G	8781318.71	8781318.87	8781319.03	0.0089	0.0020
Moon	19330-05-27 11:02 G	8781343.71	8781343.96	8781344.24	0.0089	0.0014
Earth	19330-05-27 13:26 G	8781343.81	8781344.06	8781344.32	0.0089	0.0017 *
Mercury	19330-07-29 11:02 G	8781406.80	8781406.96	8781407.13	0.0089	0.0012
Mercury	19330-10-25 13:26 G	8781494.90	8781495.06	8781495.22	0.0089	0.0003
Mercury	19331-01-21 15:50 G	8781583.00	8781583.16	8781583.32	0.0089	0.0005
Mercury	19331-04-19 18:00 G	8781671.10	8781671.25	8781671.41	0.0089	0.0014
Earth	19331-05-30 02:38 G	8781711.37	8781711.61	8781711.88	0.0089	0.0015

Moon	19331-05-30 05:31 G	8781711.49	8781711.73	8781711.99	0.0089	0.0020 *
Mercury	19331-07-16 20:09 G	8781759.19	8781759.34	8781759.50	0.0089	0.0022
Mercury	19331-10-12 22:33 G	8781847.29	8781847.44	8781847.59	0.0089	0.0030
Mercury	19332-01-09 00:43 G	8781935.39	8781935.53	8781935.68	0.0089	0.0038
Mercury	19332-04-06 02:52 G	8782023.50	8782023.62	8782023.77	0.0089	0.0047
Moon	19332-05-31 12:14 G	8782078.76	8782079.01	8782079.28	0.0089	0.0011
Earth	19332-05-31 16:19 G	8782078.92	8782079.18	8782079.43	0.0089	0.0014 *
Mercury	19332-07-03 05:16 G	8782111.60	8782111.72	8782111.85	0.0089	0.0055
Mercury	19332-09-29 07:26 G	8782199.71	8782199.81	8782199.93	0.0089	0.0063
Mercury	19332-12-26 09:36 G	8782287.81	8782287.90	8782288.00	0.0089	0.0071
Mercury	19333-03-24 11:45 G	8782375.93	8782375.99	8782376.07	0.0089	0.0079
Earth	19333-06-03 05:02 G	8782446.46	8782446.71	8782446.97	0.0089	0.0012
Moon	19333-06-03 08:38 G	8782446.61	8782446.86	8782447.12	0.0089	0.0016 *
Mercury	19333-06-20 13:55 G	8782464.06	8782464.08	8782464.13	0.0089	0.0087
Moon	19334-06-05 14:52 G	8782813.87	8782814.12	8782814.38	0.0089	0.0007
Earth	19334-06-05 18:14 G	8782814.01	8782814.26	8782814.53	0.0089	0.0011 *
Earth	19335-06-08 07:26 G	8783181.55	8783181.81	8783182.07	0.0089	0.0010
Moon	19335-06-08 09:36 G	8783181.65	8783181.90	8783182.18	0.0089	0.0015 *
Moon	19336-06-09 18:57 G	8783549.04	8783549.29	8783549.55	0.0089	0.0005
Earth	19336-06-09 20:24 G	8783549.10	8783549.35	8783549.62	0.0089	0.0009 *
Earth	19337-06-12 09:50 G	8783916.65	8783916.91	8783917.16	0.0089	0.0007
Moon	19337-06-12 10:19 G	8783916.67	8783916.93	8783917.20	0.0089	0.0011 *
Earth	19338-06-14 22:48 G	8784284.19	8784284.45	8784284.71	0.0089	0.0005
Moon	19338-06-15 00:00 G	8784284.24	8784284.50	8784284.75	0.0089	0.0002 *
Moon	19339-06-17 10:04 G	8784651.66	8784651.92	8784652.19	0.0089	0.0008
Earth	19339-06-17 12:00 G	8784651.75	8784652.00	8784652.26	0.0089	0.0004 *
Earth	19340-06-19 01:26 G	8785019.30	8785019.56	8785019.82	0.0089	0.0003
Moon	19340-06-19 04:04 G	8785019.41	8785019.67	8785019.92	0.0089	0.0002 *
Moon	19341-06-21 11:02 G	8785386.70	8785386.96	8785387.22	0.0089	0.0006
Earth	19341-06-21 14:38 G	8785386.85	8785387.11	8785387.37	0.0089	0.0001 *

Earth	19342-06-24 03:50 G	8785754.40	8785754.66	8785754.92	0.0089	0.0001
Moon	19342-06-24 07:12 G	8785754.55	8785754.80	8785755.06	0.0089	0.0005 *
Moon	19343-06-26 13:40 G	8786121.82	8786122.07	8786122.33	0.0089	0.0003
Earth	19343-06-26 17:16 G	8786121.96	8786122.22	8786122.48	0.0089	0.0002 *
Earth	19344-06-28 06:28 G	8786489.51	8786489.77	8786490.03	0.0089	0.0004
Moon	19344-06-28 09:07 G	8786489.62	8786489.88	8786490.15	0.0089	0.0008 *
Moon	19345-06-30 17:45 G	8786856.99	8786857.24	8786857.49	0.0090	0.0001
Earth	19345-06-30 19:40 G	8786857.07	8786857.32	8786857.58	0.0090	0.0005 *
Earth	19346-07-03 08:52 G	8787224.61	8787224.87	8787225.13	0.0090	0.0006
Moon	19346-07-03 09:50 G	8787224.65	8787224.91	8787225.18	0.0090	0.0011 *
Earth	19347-07-05 22:04 G	8787592.16	8787592.42	8787592.68	0.0090	0.0008
Moon	19347-07-05 22:48 G	8787592.20	8787592.45	8787592.70	0.0090	0.0004 *
Moon	19348-07-07 09:36 G	8787959.64	8787959.90	8787960.17	0.0090	0.0014
Earth	19348-07-07 11:02 G	8787959.71	8787959.96	8787960.22	0.0090	0.0010 *
Earth	19349-07-10 00:00 G	8788327.24	8788327.50	8788327.76	0.0090	0.0011
Moon	19349-07-10 02:24 G	8788327.35	8788327.60	8788327.86	0.0090	0.0006 *
Moon	19350-07-12 09:36 G	8788694.65	8788694.90	8788695.16	0.0090	0.0017
Earth	19350-07-12 13:12 G	8788694.79	8788695.05	8788695.30	0.0090	0.0012 *
Earth	19351-07-15 01:55 G	8789062.33	8789062.58	8789062.84	0.0090	0.0014
Moon	19351-07-15 05:31 G	8789062.48	8789062.73	8789062.99	0.0090	0.0009 *
Moon	19352-07-16 11:16 G	8789429.73	8789429.97	8789430.23	0.0090	0.0019
Earth	19352-07-16 15:07 G	8789429.88	8789430.13	8789430.39	0.0090	0.0015 *
Earth	19353-07-19 03:50 G	8789797.42	8789797.66	8789797.92	0.0089	0.0017
Moon	19353-07-19 06:57 G	8789797.53	8789797.79	8789798.05	0.0089	0.0012 *
Moon	19354-07-21 14:38 G	8790164.87	8790165.11	8790165.36	0.0089	0.0021
Earth	19354-07-21 17:02 G	8790164.96	8790165.21	8790165.47	0.0089	0.0018 *
Earth	19355-07-24 06:14 G	8790532.51	8790532.76	8790533.01	0.0089	0.0019
Moon	19355-07-24 07:26 G	8790532.55	8790532.81	8790533.08	0.0089	0.0015 *
Earth	19356-07-25 19:12 G	8790900.05	8790900.30	8790900.56	0.0089	0.0020
Moon	19356-07-25 19:26 G	8790900.08	8790900.31	8790900.56	0.0089	0.0024 *

Moon	19357-07-28 06:57 G	8791267.53	8791267.79	8791268.06	0.0089	0.0018
Earth	19357-07-28 07:55 G	8791267.59	8791267.83	8791268.09	0.0089	0.0021 *
Earth	19358-07-30 20:38 G	8791635.12	8791635.36	8791635.62	0.0089	0.0023
Moon	19358-07-30 22:48 G	8791635.23	8791635.45	8791635.71	0.0089	0.0027 *
Moon	19359-08-02 06:14 G	8792002.52	8792002.76	8792003.03	0.0089	0.0020
Earth	19359-08-02 09:36 G	8792002.66	8792002.90	8792003.16	0.0089	0.0023 *
Earth	19360-08-03 22:04 G	8792370.18	8792370.42	8792370.68	0.0089	0.0024
Moon	19360-08-04 01:26 G	8792370.32	8792370.56	8792370.81	0.0089	0.0028 *
Moon	19361-08-06 06:57 G	8792737.55	8792737.79	8792738.05	0.0089	0.0022
Earth	19361-08-06 10:33 G	8792737.71	8792737.94	8792738.20	0.0089	0.0026 *
Earth	19362-08-08 23:02 G	8793105.23	8793105.46	8793105.72	0.0089	0.0027
Moon	19362-08-09 02:24 G	8793105.36	8793105.60	8793105.85	0.0089	0.0030 *
Moon	19363-08-11 09:07 G	8793472.65	8793472.88	8793473.13	0.0089	0.0025
Earth	19363-08-11 11:45 G	8793472.75	8793472.99	8793473.25	0.0089	0.0027 *
Earth	19364-08-13 00:00 G	8793840.27	8793840.50	8793840.76	0.0089	0.0029
Moon	19364-08-13 01:26 G	8793840.33	8793840.56	8793840.83	0.0089	0.0032 *
Earth	19365-08-15 12:28 G	8794207.79	8794208.02	8794208.28	0.0089	0.0029
Moon	19365-08-15 12:28 G	8794207.80	8794208.02	8794208.27	0.0089	0.0026 *
Moon	19366-08-18 00:14 G	8794575.27	8794575.51	8794575.77	0.0089	0.0032
Earth	19366-08-18 01:12 G	8794575.31	8794575.55	8794575.80	0.0089	0.0030 *
Earth	19367-08-20 13:26 G	8794942.83	8794943.06	8794943.31	0.0089	0.0031
Moon	19367-08-20 15:50 G	8794942.92	8794943.16	8794943.40	0.0089	0.0028 *
Moon	19368-08-21 22:33 G	8795310.21	8795310.44	8795310.70	0.0089	0.0035
Earth	19368-08-22 01:40 G	8795310.34	8795310.57	8795310.83	0.0089	0.0032 *
Earth	19369-08-24 13:55 G	8795677.86	8795678.08	8795678.34	0.0089	0.0032
Moon	19369-08-24 17:16 G	8795677.99	8795678.22	8795678.47	0.0089	0.0030 *
Moon	19370-08-26 22:33 G	8796045.22	8796045.44	8796045.69	0.0089	0.0036
Earth	19370-08-27 02:24 G	8796045.37	8796045.60	8796045.85	0.0089	0.0033 *
Earth	19371-08-29 14:24 G	8796412.87	8796413.10	8796413.35	0.0089	0.0033
Moon	19371-08-29 17:45 G	8796413.00	8796413.24	8796413.49	0.0089	0.0031 *

Moon	19372-08-30 23:45 G	8796780.27	8796780.49	8796780.73	0.0089	0.0035
Earth	19372-08-31 02:38 G	8796780.38	8796780.61	8796780.85	0.0089	0.0033 *
Earth	19373-09-02 14:09 G	8797147.87	8797148.09	8797148.35	0.0089	0.0034
Moon	19373-09-02 15:36 G	8797147.92	8797148.15	8797148.42	0.0089	0.0033 *
Earth	19374-09-05 02:09 G	8797515.37	8797515.59	8797515.84	0.0089	0.0035
Moon	19374-09-05 02:09 G	8797515.37	8797515.59	8797515.83	0.0089	0.0036 *
Moon	19375-09-07 13:26 G	8797882.83	8797883.06	8797883.32	0.0089	0.0033
Earth	19375-09-07 14:24 G	8797882.86	8797883.10	8797883.34	0.0089	0.0035 *
Mars	19376-03-05 19:55 G	8798063.21	8798063.33	8798063.47	0.0089	0.0080
Earth	19376-09-09 01:40 G	8798250.35	8798250.57	8798250.82	0.0089	0.0035
Moon	19376-09-09 03:50 G	8798250.45	8798250.66	8798250.90	0.0089	0.0037 *
Moon	19377-09-11 10:33 G	8798617.71	8798617.94	8798618.19	0.0089	0.0033
Earth	19377-09-11 13:40 G	8798617.84	8798618.07	8798618.31	0.0089	0.0035 *
Mars	19378-01-28 21:50 G	8798757.11	8798757.41	8798757.71	0.0089	0.0002
Earth	19378-09-14 01:26 G	8798985.33	8798985.56	8798985.80	0.0089	0.0035
Moon	19378-09-14 04:33 G	8798985.47	8798985.69	8798985.94	0.0089	0.0036 *
Moon	19379-09-16 09:21 G	8799352.67	8799352.89	8799353.14	0.0089	0.0034
Earth	19379-09-16 13:26 G	8799352.82	8799353.06	8799353.29	0.0089	0.0035 *
Mars	19379-12-24 02:38 G	8799451.48	8799451.61	8799451.77	0.0089	0.0078
Earth	19380-09-18 00:57 G	8799720.31	8799720.54	8799720.78	0.0089	0.0035
Moon	19380-09-18 03:36 G	8799720.44	8799720.65	8799720.91	0.0089	0.0037 *
Moon	19381-09-20 09:50 G	8800087.69	8800087.91	8800088.15	0.0089	0.0035
Earth	19381-09-20 12:14 G	8800087.80	8800088.01	8800088.27	0.0089	0.0036 *
Earth	19382-09-23 00:14 G	8800455.28	8800455.51	8800455.75	0.0089	0.0035
Moon	19382-09-23 01:40 G	8800455.33	8800455.57	8800455.81	0.0089	0.0036 *
Moon	19383-09-25 11:16 G	8800822.76	8800822.97	8800823.21	0.0089	0.0035
Earth	19383-09-25 11:45 G	8800822.76	8800822.99	8800823.23	0.0089	0.0035 *
Moon	19384-09-26 22:19 G	8801190.19	8801190.43	8801190.68	0.0089	0.0035
Earth	19384-09-26 22:48 G	8801190.23	8801190.45	8801190.70	0.0089	0.0035 *
Earth	19385-09-29 10:04 G	8801557.69	8801557.92	8801558.17	0.0089	0.0035

Moon	19385-09-29 12:28 G	8801557.79	8801558.02	8801558.26	0.0089	0.0034 *
Moon	19386-10-01 18:14 G	8801925.04	8801925.26	8801925.51	0.0089	0.0036
Earth	19386-10-01 21:21 G	8801925.17	8801925.39	8801925.64	0.0089	0.0035 *
Earth	19387-10-04 08:38 G	8802292.62	8802292.86	8802293.10	0.0089	0.0034
Moon	19387-10-04 11:45 G	8802292.77	8802292.99	8802293.23	0.0089	0.0035 *
Moon	19388-10-05 15:50 G	8802659.94	8802660.16	8802660.41	0.0089	0.0035
Earth	19388-10-05 19:40 G	8802660.09	8802660.32	8802660.56	0.0089	0.0034 *
Earth	19389-10-08 06:28 G	8803027.55	8803027.77	8803028.02	0.0089	0.0034
Moon	19389-10-08 09:36 G	8803027.67	8803027.90	8803028.15	0.0089	0.0034 *
Moon	19390-10-10 14:52 G	8803394.91	8803395.12	8803395.37	0.0089	0.0033
Earth	19390-10-10 17:45 G	8803395.01	8803395.24	8803395.49	0.0089	0.0033 *
Earth	19391-10-13 04:33 G	8803762.47	8803762.69	8803762.94	0.0089	0.0033
Moon	19391-10-13 05:45 G	8803762.51	8803762.74	8803763.00	0.0089	0.0033 *
Earth	19392-10-14 15:36 G	8804129.92	8804130.15	8804130.40	0.0089	0.0032
Moon	19392-10-14 15:50 G	8804129.93	8804130.16	8804130.40	0.0089	0.0032 *
Moon	19393-10-17 01:40 G	8804497.34	8804497.57	8804497.83	0.0089	0.0032
Earth	19393-10-17 02:38 G	8804497.38	8804497.61	8804497.86	0.0089	0.0031 *
Earth	19394-10-19 13:40 G	8804864.84	8804865.07	8804865.32	0.0088	0.0031
Moon	19394-10-19 16:04 G	8804864.95	8804865.17	8804865.42	0.0088	0.0031 *
Moon	19395-10-21 21:21 G	8805232.15	8805232.39	8805232.64	0.0088	0.0030
Earth	19395-10-22 00:28 G	8805232.29	8805232.52	8805232.77	0.0088	0.0030 *
Earth	19396-10-23 11:02 G	8805599.73	8805599.96	8805600.22	0.0088	0.0030
Moon	19396-10-23 14:52 G	8805599.88	8805600.12	8805600.36	0.0088	0.0028 *
Moon	19397-10-25 18:28 G	8805967.04	8805967.27	8805967.52	0.0088	0.0028
Earth	19397-10-25 21:50 G	8805967.18	8805967.41	8805967.67	0.0088	0.0029 *
Earth	19398-10-28 08:24 G	8806334.62	8806334.85	8806335.10	0.0088	0.0028
Moon	19398-10-28 11:16 G	8806334.73	8806334.97	8806335.23	0.0088	0.0027 *
Moon	19399-10-30 16:48 G	8806701.97	8806702.20	8806702.44	0.0088	0.0028
Earth	19399-10-30 18:57 G	8806702.06	8806702.29	8806702.55	0.0088	0.0027 *
Earth	19400-11-02 05:31 G	8807069.49	8807069.73	8807069.98	0.0088	0.0026



Moon	19400-11-02 06:28 G	8807069.52	8807069.77	8807070.02	0.0088	0.0025 *
Earth	19401-11-04 16:04 G	8807436.93	8807437.17	8807437.42	0.0088	0.0025
Moon	19401-11-04 16:19 G	8807436.95	8807437.18	8807437.42	0.0088	0.0025 *
Venus	19402-06-02 05:16 G	8807646.61	8807646.72	8807646.87	0.0088	0.0072
Moon	19402-11-07 01:12 G	8807804.30	8807804.55	8807804.81	0.0088	0.0022
Earth	19402-11-07 02:38 G	8807804.36	8807804.61	8807804.86	0.0088	0.0024 *
Venus	19403-01-13 18:28 G	8807872.09	8807872.27	8807872.45	0.0088	0.0052
Venus	19403-08-27 06:57 G	8808097.60	8808097.79	8808098.01	0.0088	0.0033
Earth	19403-11-09 12:57 G	8808171.79	8808172.04	8808172.29	0.0088	0.0023
Moon	19403-11-09 15:36 G	8808171.91	8808172.15	8808172.39	0.0088	0.0023 *
Venus	19404-04-08 20:09 G	8808323.12	8808323.34	8808323.55	0.0088	0.0013
Moon	19404-11-10 19:55 G	8808539.09	8808539.33	8808539.59	0.0088	0.0021
Earth	19404-11-10 23:31 G	8808539.23	8808539.48	8808539.73	0.0088	0.0022 *
Venus	19404-11-20 08:38 G	8808548.65	8808548.86	8808549.09	0.0088	0.0008
Venus	19405-07-03 21:07 G	8808774.19	8808774.38	8808774.61	0.0088	0.0028
Earth	19405-11-13 09:50 G	8808906.66	8808906.91	8808907.16	0.0088	0.0020
Moon	19405-11-13 13:26 G	8808906.81	8808907.06	8808907.31	0.0088	0.0022 *
Venus	19406-02-14 10:04 G	8808999.74	8808999.92	8809000.12	0.0088	0.0046
Venus	19406-09-27 22:48 G	8809225.32	8809225.45	8809225.61	0.0088	0.0066
Moon	19406-11-15 16:48 G	8809273.96	8809274.20	8809274.45	0.0088	0.0019
Earth	19406-11-15 20:09 G	8809274.10	8809274.34	8809274.60	0.0088	0.0020 *
Venus	19407-05-11 11:45 G	8809450.95	8809450.99	8809451.05	0.0088	0.0085
Earth	19407-11-18 06:28 G	8809641.53	8809641.77	8809642.03	0.0088	0.0018
Moon	19407-11-18 09:07 G	8809641.64	8809641.88	8809642.15	0.0088	0.0020 *
Moon	19408-11-19 14:52 G	8810008.88	8810009.12	8810009.37	0.0088	0.0015
Earth	19408-11-19 16:48 G	8810008.96	8810009.20	8810009.46	0.0088	0.0017 *
Earth	19409-11-22 03:07 G	8810376.39	8810376.63	8810376.89	0.0088	0.0016
Moon	19409-11-22 03:36 G	8810376.39	8810376.65	8810376.91	0.0088	0.0017 *
Mercury	19409-11-25 18:28 G	8810380.23	8810380.27	8810380.33	0.0088	0.0082
Mercury	19410-02-21 20:24 G	8810468.28	8810468.35	8810468.44	0.0088	0.0075

Mercury	19410-05-20 22:04 G	8810556.34	8810556.42	8810556.53	0.0088	0.0068
Mercury	19410-08-17 00:14 G	8810644.41	8810644.51	8810644.63	0.0088	0.0060
Mercury	19410-11-13 02:09 G	8810732.47	8810732.59	8810732.72	0.0088	0.0053
Earth	19410-11-24 13:12 G	8810743.81	8810744.05	8810744.32	0.0088	0.0015
Moon	19410-11-24 13:55 G	8810743.85	8810744.08	8810744.34	0.0088	0.0014 *
Mercury	19411-02-09 03:50 G	8810820.54	8810820.66	8810820.80	0.0088	0.0046
Mercury	19411-05-08 06:00 G	8810908.62	8810908.75	8810908.89	0.0088	0.0038
Mercury	19411-08-04 07:55 G	8810996.69	8810996.83	8810996.98	0.0088	0.0031
Mercury	19411-10-31 09:50 G	8811084.77	8811084.91	8811085.06	0.0088	0.0023
Moon	19411-11-26 21:50 G	8811111.15	8811111.41	8811111.67	0.0088	0.0015
Earth	19411-11-26 23:16 G	8811111.23	8811111.47	8811111.74	0.0088	0.0014 *
Mercury	19412-01-27 11:45 G	8811172.84	8811172.99	8811173.15	0.0088	0.0016
Mercury	19412-04-24 13:55 G	8811260.92	8811261.08	8811261.23	0.0088	0.0008
Mercury	19412-07-21 15:50 G	8811349.00	8811349.16	8811349.31	0.0088	0.0001
Mercury	19412-10-17 17:45 G	8811437.09	8811437.24	8811437.39	0.0088	0.0007
Earth	19412-11-28 09:50 G	8811478.65	8811478.91	8811479.16	0.0088	0.0012
Moon	19412-11-28 12:43 G	8811478.79	8811479.03	8811479.28	0.0088	0.0011 *
Mercury	19413-01-13 19:40 G	8811525.17	8811525.32	8811525.47	0.0088	0.0015
Mercury	19413-04-11 21:36 G	8811613.26	8811613.40	8811613.56	0.0088	0.0023
Mercury	19413-07-08 23:31 G	8811701.34	8811701.48	8811701.63	0.0088	0.0030
Mercury	19413-10-05 01:26 G	8811789.43	8811789.56	8811789.71	0.0088	0.0038
Moon	19413-11-30 16:48 G	8811845.94	8811846.20	8811846.45	0.0088	0.0012
Earth	19413-11-30 19:55 G	8811846.08	8811846.33	8811846.59	0.0088	0.0011 *
Mercury	19414-01-01 03:21 G	8811877.52	8811877.64	8811877.79	0.0088	0.0046
Mercury	19414-03-30 05:45 G	8811965.62	8811965.74	8811965.86	0.0088	0.0053
Mercury	19414-06-26 07:40 G	8812053.71	8812053.82	8812053.94	0.0088	0.0061
Mercury	19414-09-22 09:36 G	8812141.82	8812141.90	8812142.01	0.0088	0.0069
Earth	19414-12-03 06:00 G	8812213.50	8812213.75	8812214.01	0.0088	0.0010
Moon	19414-12-03 09:36 G	8812213.65	8812213.90	8812214.16	0.0088	0.0007 *
Mercury	19414-12-19 11:31 G	8812229.92	8812229.98	8812230.07	0.0088	0.0077

Mercury	19415-03-17 13:55 G	8812318.04	8812318.08	8812318.12	0.0088	0.0084
Moon	19415-12-05 12:57 G	8812580.80	8812581.04	8812581.30	0.0088	0.0010
Earth	19415-12-05 16:04 G	8812580.92	8812581.17	8812581.43	0.0088	0.0009 *
Earth	19416-12-07 02:24 G	8812948.34	8812948.60	8812948.86	0.0088	0.0007
Moon	19416-12-07 04:48 G	8812948.44	8812948.70	8812948.96	0.0088	0.0005 *
Moon	19417-12-09 11:02 G	8813315.71	8813315.96	8813316.21	0.0088	0.0008
Earth	19417-12-09 12:28 G	8813315.77	8813316.02	8813316.28	0.0088	0.0006 *
Moon	19418-12-11 22:48 G	8813683.18	8813683.45	8813683.71	0.0088	0.0003
Earth	19418-12-11 22:48 G	8813683.20	8813683.45	8813683.71	0.0088	0.0005 *
Jupiter	19419-03-19 09:50 G	8813780.79	8813780.91	8813781.18	0.0088	0.0083
Earth	19419-12-14 09:07 G	8814050.62	8814050.88	8814051.14	0.0088	0.0003
Moon	19419-12-14 10:19 G	8814050.68	8814050.93	8814051.18	0.0088	0.0005 *
Moon	19420-12-15 17:16 G	8814417.96	8814418.22	8814418.48	0.0088	0.0000
Earth	19420-12-15 19:26 G	8814418.05	8814418.31	8814418.57	0.0088	0.0002 *
Earth	19421-12-18 05:31 G	8814785.48	8814785.73	8814785.99	0.0088	0.0001
Moon	19421-12-18 08:52 G	8814785.62	8814785.87	8814786.12	0.0088	0.0002 *
Moon	19422-12-20 12:14 G	8815152.76	8815153.01	8815153.27	0.0088	0.0003
Earth	19422-12-20 15:36 G	8815152.90	8815153.15	8815153.41	0.0088	0.0002 *
Earth	19423-12-23 01:40 G	8815520.32	8815520.57	8815520.83	0.0088	0.0003
Moon	19423-12-23 05:31 G	8815520.47	8815520.73	8815520.99	0.0088	0.0001 *
Moon	19424-12-24 09:07 G	8815887.63	8815887.88	8815888.13	0.0088	0.0006
Earth	19424-12-24 12:00 G	8815887.74	8815888.00	8815888.26	0.0088	0.0003 *
Earth	19425-12-26 22:04 G	8816255.16	8816255.42	8816255.68	0.0088	0.0005
Moon	19425-12-27 00:00 G	8816255.24	8816255.50	8816255.77	0.0088	0.0003 *
Moon	19426-12-29 06:57 G	8816622.55	8816622.79	8816623.04	0.0088	0.0009
Earth	19426-12-29 08:09 G	8816622.59	8816622.84	8816623.10	0.0088	0.0006 *
Moon	19427-12-31 17:45 G	8816989.97	8816990.24	8816990.50	0.0088	0.0005
Earth	19427-12-31 18:14 G	8816990.01	8816990.26	8816990.52	0.0088	0.0008 *
Earth	19429-01-02 04:33 G	8817357.44	8817357.69	8817357.95	0.0088	0.0009
Moon	19429-01-02 06:00 G	8817357.51	8817357.75	8817358.00	0.0088	0.0011 *

Moon	19430-01-04 12:14 G	8817724.75	8817725.01	8817725.28	0.0088	0.0007
Earth	19430-01-04 14:52 G	8817724.87	8817725.12	8817725.38	0.0088	0.0010 *
Earth	19431-01-07 00:57 G	8818092.29	8818092.54	8818092.80	0.0088	0.0011
Moon	19431-01-07 04:19 G	8818092.44	8818092.68	8818092.94	0.0088	0.0014 *
Moon	19432-01-09 07:55 G	8818459.58	8818459.83	8818460.09	0.0088	0.0010
Earth	19432-01-09 11:16 G	8818459.73	8818459.97	8818460.24	0.0088	0.0013 *
Earth	19433-01-10 21:36 G	8818827.16	8818827.40	8818827.67	0.0088	0.0014
Moon	19433-01-11 01:12 G	8818827.31	8818827.55	8818827.82	0.0088	0.0017 *
Moon	19434-01-13 05:45 G	8819194.49	8819194.74	8819194.99	0.0088	0.0012
Earth	19434-01-13 08:09 G	8819194.59	8819194.84	8819195.10	0.0088	0.0015 *
Earth	19435-01-15 18:28 G	8819562.02	8819562.27	8819562.53	0.0088	0.0016
Moon	19435-01-15 20:09 G	8819562.09	8819562.34	8819562.61	0.0088	0.0019 *
Moon	19436-01-18 04:04 G	8819929.43	8819929.67	8819929.92	0.0088	0.0014
Earth	19436-01-18 04:48 G	8819929.45	8819929.70	8819929.96	0.0088	0.0017 *
Moon	19437-01-19 13:55 G	8820296.83	8820297.08	8820297.35	0.0088	0.0021
Earth	19437-01-19 15:07 G	8820296.88	8820297.13	8820297.39	0.0088	0.0018 *
Earth	19438-01-22 01:40 G	8820664.32	8820664.57	8820664.82	0.0088	0.0019
Moon	19438-01-22 03:21 G	8820664.40	8820664.64	8820664.89	0.0088	0.0017 *
Moon	19439-01-24 08:38 G	8821031.63	8821031.86	8821032.13	0.0088	0.0024
Earth	19439-01-24 12:00 G	8821031.75	8821032.00	8821032.25	0.0088	0.0020 *
Earth	19440-01-26 22:19 G	8821399.18	8821399.43	8821399.68	0.0088	0.0021
Moon	19440-01-27 01:55 G	8821399.33	8821399.58	8821399.83	0.0088	0.0018 *
Moon	19441-01-28 05:31 G	8821766.49	8821766.73	8821766.98	0.0088	0.0025
Earth	19441-01-28 08:52 G	8821766.62	8821766.87	8821767.12	0.0088	0.0022 *
Earth	19442-01-30 19:12 G	8822134.06	8822134.30	8822134.55	0.0088	0.0023
Moon	19442-01-30 22:33 G	8822134.20	8822134.44	8822134.70	0.0088	0.0020 *
Moon	19443-02-02 03:50 G	8822501.42	8822501.66	8822501.90	0.0088	0.0027
Earth	19443-02-02 06:00 G	8822501.50	8822501.75	8822502.00	0.0088	0.0024 *
Earth	19444-02-04 16:33 G	8822868.95	8822869.19	8822869.44	0.0088	0.0025
Moon	19444-02-04 18:00 G	8822869.00	8822869.25	8822869.51	0.0088	0.0022 *

Moon	19445-02-06 02:52 G	8823236.40	8823236.62	8823236.87	0.0088	0.0030
Earth	19445-02-06 03:21 G	8823236.40	8823236.64	8823236.89	0.0088	0.0026 *
Moon	19446-02-08 12:28 G	8823603.78	8823604.02	8823604.29	0.0088	0.0024
Earth	19446-02-08 14:09 G	8823603.85	8823604.09	8823604.35	0.0088	0.0027 *
Earth	19447-02-11 00:43 G	8823971.30	8823971.53	8823971.79	0.0088	0.0028
Moon	19447-02-11 02:52 G	8823971.40	8823971.62	8823971.87	0.0088	0.0031 *
Moon	19448-02-13 08:38 G	8824338.62	8824338.86	8824339.13	0.0088	0.0025
Earth	19448-02-13 12:00 G	8824338.76	8824339.00	8824339.25	0.0088	0.0028 *
Earth	19449-02-14 22:33 G	8824706.21	8824706.44	8824706.70	0.0088	0.0029
Moon	19449-02-15 02:38 G	8824706.37	8824706.61	8824706.85	0.0088	0.0032 *
Moon	19450-02-17 06:14 G	8825073.52	8825073.76	8825074.01	0.0088	0.0026
Earth	19450-02-17 09:21 G	8825073.67	8825073.89	8825074.15	0.0088	0.0030 *
Earth	19451-02-19 20:24 G	8825441.12	8825441.35	8825441.61	0.0088	0.0030
Moon	19451-02-20 00:00 G	8825441.26	8825441.50	8825441.74	0.0088	0.0034 *
Moon	19452-02-22 05:45 G	8825808.50	8825808.74	8825808.98	0.0088	0.0027
Earth	19452-02-22 07:26 G	8825808.58	8825808.81	8825809.07	0.0088	0.0031 *
Earth	19453-02-23 18:43 G	8826176.04	8826176.28	8826176.52	0.0088	0.0031
Moon	19453-02-23 19:40 G	8826176.09	8826176.32	8826176.58	0.0088	0.0035 *
Earth	19454-02-26 05:31 G	8826543.51	8826543.73	8826543.99	0.0088	0.0032
Moon	19454-02-26 05:31 G	8826543.51	8826543.73	8826543.98	0.0088	0.0028 *
Moon	19455-02-28 14:52 G	8826910.90	8826911.12	8826911.38	0.0088	0.0036
Earth	19455-02-28 16:48 G	8826910.97	8826911.20	8826911.45	0.0088	0.0033 *
Earth	19456-03-02 04:04 G	8827278.45	8827278.67	8827278.93	0.0088	0.0033
Moon	19456-03-02 06:28 G	8827278.54	8827278.77	8827279.02	0.0088	0.0029 *
Moon	19457-03-04 12:28 G	8827645.79	8827646.02	8827646.27	0.0088	0.0037
Earth	19457-03-04 15:36 G	8827645.93	8827646.15	8827646.41	0.0088	0.0033 *
Earth	19458-03-07 03:07 G	8828013.40	8828013.63	8828013.88	0.0088	0.0033
Moon	19458-03-07 06:43 G	8828013.55	8828013.78	8828014.03	0.0088	0.0029 *
Moon	19459-03-09 11:31 G	8828380.75	8828380.98	8828381.21	0.0088	0.0038
Earth	19459-03-09 14:52 G	8828380.88	8828381.12	8828381.36	0.0088	0.0033 *

Mars	19459-12-29 06:00 G	8828675.53	8828675.75	8828676.03	0.0088	0.0056
Earth	19460-03-11 01:55 G	8828748.36	8828748.58	8828748.84	0.0088	0.0035
Moon	19460-03-11 05:31 G	8828748.49	8828748.73	8828748.99	0.0088	0.0029 *
Moon	19461-03-13 11:45 G	8829115.78	8829115.99	8829116.23	0.0088	0.0038
Earth	19461-03-13 13:40 G	8829115.85	8829116.07	8829116.32	0.0088	0.0034 *
Mars	19461-11-23 18:57 G	8829371.00	8829371.29	8829371.62	0.0088	0.0030
Earth	19462-03-16 01:12 G	8829483.33	8829483.55	8829483.80	0.0088	0.0034
Moon	19462-03-16 02:24 G	8829483.36	8829483.60	8829483.87	0.0088	0.0030 *
Earth	19463-03-18 12:43 G	8829850.81	8829851.03	8829851.29	0.0088	0.0035
Moon	19463-03-18 12:57 G	8829850.83	8829851.04	8829851.28	0.0088	0.0039 *
Moon	19464-03-19 23:02 G	8830218.21	8830218.46	8830218.72	0.0088	0.0030
Earth	19464-03-20 00:28 G	8830218.30	8830218.52	8830218.78	0.0088	0.0035 *
Earth	19465-03-22 12:28 G	8830585.79	8830586.02	8830586.27	0.0088	0.0034
Moon	19465-03-22 14:24 G	8830585.90	8830586.10	8830586.35	0.0088	0.0039 *
Moon	19466-03-24 20:38 G	8830953.13	8830953.36	8830953.63	0.0088	0.0030
Earth	19466-03-25 00:14 G	8830953.28	8830953.51	8830953.76	0.0088	0.0034 *
Earth	19467-03-27 12:00 G	8831320.77	8831321.00	8831321.25	0.0088	0.0034
Moon	19467-03-27 15:21 G	8831320.93	8831321.14	8831321.40	0.0088	0.0039 *
Moon	19468-03-28 20:52 G	8831688.13	8831688.37	8831688.62	0.0088	0.0029
Earth	19468-03-29 00:00 G	8831688.28	8831688.50	8831688.76	0.0088	0.0034 *
Earth	19469-03-31 12:14 G	8832055.77	8832056.01	8832056.25	0.0088	0.0033
Moon	19469-03-31 15:21 G	8832055.91	8832056.14	8832056.39	0.0088	0.0038 *
Moon	19470-04-02 22:19 G	8832423.20	8832423.43	8832423.68	0.0089	0.0029
Earth	19470-04-03 00:14 G	8832423.28	8832423.51	8832423.76	0.0089	0.0033 *
Earth	19471-04-05 12:14 G	8832790.79	8832791.01	8832791.27	0.0089	0.0033
Moon	19471-04-05 13:26 G	8832790.84	8832791.06	8832791.33	0.0089	0.0037 *
Earth	19472-04-07 00:43 G	8833158.30	8833158.53	8833158.78	0.0089	0.0032
Moon	19472-04-07 00:43 G	8833158.30	8833158.53	8833158.78	0.0089	0.0028 *
Moon	19473-04-09 11:16 G	8833525.74	8833525.97	8833526.23	0.0089	0.0036
Earth	19473-04-09 12:57 G	8833525.81	8833526.04	8833526.29	0.0089	0.0032 *

Earth	19474-04-12 01:12 G	8833893.31	8833893.55	8833893.80	0.0089	0.0031
Moon	19474-04-12 03:21 G	8833893.41	8833893.64	8833893.89	0.0089	0.0027 *
Moon	19475-04-14 10:19 G	8834260.69	8834260.93	8834261.18	0.0089	0.0035
Earth	19475-04-14 13:40 G	8834260.83	8834261.07	8834261.32	0.0089	0.0030 *
Earth	19476-04-16 01:40 G	8834628.34	8834628.57	8834628.83	0.0089	0.0030
Moon	19476-04-16 05:31 G	8834628.49	8834628.73	8834628.98	0.0089	0.0025 *
Moon	19477-04-18 10:33 G	8834995.72	8834995.94	8834996.19	0.0089	0.0034
Earth	19477-04-18 14:09 G	8834995.85	8834996.09	8834996.34	0.0089	0.0029 *
Earth	19478-04-21 02:24 G	8835363.37	8835363.60	8835363.86	0.0089	0.0029
Moon	19478-04-21 05:45 G	8835363.50	8835363.74	8835364.01	0.0089	0.0024 *
Moon	19479-04-23 13:12 G	8835730.82	8835731.05	8835731.29	0.0089	0.0032
Earth	19479-04-23 14:52 G	8835730.89	8835731.12	8835731.38	0.0089	0.0028 *
Earth	19480-04-25 03:36 G	8836098.41	8836098.65	8836098.91	0.0089	0.0027
Moon	19480-04-25 05:02 G	8836098.46	8836098.71	8836098.98	0.0089	0.0023 *
Earth	19481-04-27 16:19 G	8836465.94	8836466.18	8836466.44	0.0089	0.0026
Moon	19481-04-27 16:04 G	8836465.95	8836466.17	8836466.42	0.0089	0.0031 *
Moon	19482-04-30 03:21 G	8836833.39	8836833.64	8836833.92	0.0089	0.0021
Earth	19482-04-30 05:02 G	8836833.47	8836833.71	8836833.97	0.0089	0.0025 *
Earth	19483-05-02 18:00 G	8837201.00	8837201.25	8837201.50	0.0089	0.0024
Moon	19483-05-02 19:55 G	8837201.10	8837201.33	8837201.57	0.0089	0.0028 *
Moon	19484-05-04 03:36 G	8837568.40	8837568.65	8837568.92	0.0089	0.0019
Earth	19484-05-04 06:57 G	8837568.55	8837568.79	8837569.05	0.0089	0.0023 *
Venus	19485-02-28 03:50 G	8837868.65	8837868.66	8837868.72	0.0089	0.0088
Earth	19485-05-06 19:40 G	8837936.07	8837936.32	8837936.58	0.0089	0.0022
Moon	19485-05-06 23:16 G	8837936.23	8837936.47	8837936.72	0.0089	0.0026 *
Venus	19485-10-11 17:02 G	8838094.09	8838094.21	8838094.38	0.0089	0.0068
Moon	19486-05-09 05:02 G	8838303.47	8838303.71	8838303.97	0.0089	0.0018
Earth	19486-05-09 08:38 G	8838303.62	8838303.86	8838304.12	0.0089	0.0021 *
Venus	19486-05-25 06:43 G	8838319.60	8838319.78	8838319.97	0.0089	0.0047
Venus	19487-01-05 19:55 G	8838545.12	8838545.33	8838545.54	0.0089	0.0027

Earth	19487-05-11 21:21 G	8838671.15	8838671.39	8838671.66	0.0089	0.0020
Moon	19487-05-12 00:57 G	8838671.29	8838671.54	8838671.80	0.0089	0.0024 *
Venus	19487-08-19 09:07 G	8838770.66	8838770.88	8838771.10	0.0089	0.0007
Venus	19488-03-31 22:19 G	8838996.22	8838996.43	8838996.65	0.0089	0.0013
Moon	19488-05-13 08:09 G	8839038.60	8839038.84	8839039.10	0.0089	0.0015
Earth	19488-05-13 10:19 G	8839038.69	8839038.93	8839039.20	0.0089	0.0019 *
Venus	19488-11-12 11:31 G	8839221.78	8839221.98	8839222.19	0.0089	0.0033
Earth	19489-05-15 23:16 G	8839406.22	8839406.47	8839406.73	0.0089	0.0018
Moon	19489-05-16 00:57 G	8839406.30	8839406.54	8839406.82	0.0089	0.0022 *
Venus	19489-06-26 00:43 G	8839447.36	8839447.53	8839447.71	0.0089	0.0054
Venus	19490-02-06 13:26 G	8839672.96	8839673.06	8839673.21	0.0089	0.0074
Moon	19490-05-18 12:00 G	8839773.76	8839774.00	8839774.25	0.0089	0.0013
Earth	19490-05-18 12:28 G	8839773.76	8839774.02	8839774.27	0.0089	0.0017 *
Moon	19491-05-21 00:00 G	8840141.25	8840141.50	8840141.78	0.0089	0.0019
Earth	19491-05-21 01:26 G	8840141.31	8840141.56	8840141.82	0.0089	0.0015 *
Earth	19492-05-22 14:24 G	8840508.85	8840509.10	8840509.36	0.0089	0.0014
Moon	19492-05-22 16:04 G	8840508.92	8840509.17	8840509.42	0.0089	0.0011 *
Mercury	19493-02-22 11:31 G	8840784.96	8840784.98	8840785.03	0.0089	0.0087
Mercury	19493-05-21 14:09 G	8840873.02	8840873.09	8840873.17	0.0089	0.0078
Moon	19493-05-25 00:28 G	8840876.26	8840876.52	8840876.78	0.0089	0.0017
Earth	19493-05-25 03:21 G	8840876.39	8840876.64	8840876.90	0.0089	0.0013 *
Mercury	19493-08-17 16:19 G	8840961.09	8840961.18	8840961.30	0.0089	0.0070
Mercury	19493-11-13 18:57 G	8841049.18	8841049.29	8841049.41	0.0089	0.0061
Mercury	19494-02-09 21:07 G	8841137.26	8841137.38	8841137.53	0.0089	0.0053
Mercury	19494-05-08 23:45 G	8841225.35	8841225.49	8841225.64	0.0089	0.0044
Earth	19494-05-27 16:19 G	8841243.94	8841244.18	8841244.45	0.0089	0.0013
Moon	19494-05-27 19:55 G	8841244.08	8841244.33	8841244.59	0.0089	0.0008 *
Mercury	19494-08-05 01:55 G	8841313.45	8841313.58	8841313.74	0.0089	0.0037
Mercury	19494-11-01 04:33 G	8841401.54	8841401.69	8841401.85	0.0089	0.0027
Mercury	19495-01-28 06:57 G	8841489.63	8841489.79	8841489.95	0.0089	0.0019



Mercury	19495-04-26 09:21 G	8841577.73	8841577.89	8841578.05	0.0089	0.0011
Moon	19495-05-30 02:09 G	8841611.35	8841611.59	8841611.86	0.0089	0.0014
Earth	19495-05-30 06:00 G	8841611.49	8841611.75	8841612.01	0.0089	0.0010 *
Mercury	19495-07-23 11:45 G	8841665.82	8841665.99	8841666.15	0.0089	0.0003
Mercury	19495-10-19 13:55 G	8841753.92	8841754.08	8841754.24	0.0089	0.0006
Mercury	19496-01-15 16:19 G	8841842.02	8841842.18	8841842.34	0.0089	0.0014
Mercury	19496-04-12 18:28 G	8841930.12	8841930.27	8841930.43	0.0089	0.0023
Earth	19496-05-31 18:57 G	8841979.04	8841979.29	8841979.56	0.0089	0.0010
Moon	19496-05-31 22:33 G	8841979.19	8841979.44	8841979.71	0.0089	0.0006 *
Mercury	19496-07-09 20:38 G	8842018.22	8842018.36	8842018.52	0.0089	0.0031
Mercury	19496-10-05 23:02 G	8842106.32	8842106.46	8842106.61	0.0089	0.0039
Mercury	19497-01-02 01:12 G	8842194.42	8842194.55	8842194.69	0.0089	0.0047
Mercury	19497-03-31 03:21 G	8842282.53	8842282.64	8842282.78	0.0089	0.0056
Moon	19497-06-03 06:00 G	8842346.50	8842346.75	8842347.00	0.0089	0.0011
Earth	19497-06-03 08:38 G	8842346.60	8842346.86	8842347.12	0.0089	0.0008 *
Mercury	19497-06-27 05:45 G	8842370.63	8842370.74	8842370.86	0.0089	0.0064
Mercury	19497-09-23 07:55 G	8842458.74	8842458.83	8842458.93	0.0089	0.0072
Mercury	19497-12-20 10:04 G	8842546.86	8842546.92	8842547.00	0.0089	0.0080
Mercury	19498-03-18 12:14 G	8842634.99	8842635.01	8842635.05	0.0089	0.0088
Earth	19498-06-05 21:50 G	8842714.15	8842714.41	8842714.67	0.0089	0.0006
Moon	19498-06-06 00:00 G	8842714.24	8842714.50	8842714.77	0.0089	0.0005 *
Moon	19499-06-08 10:33 G	8843081.69	8843081.94	8843082.19	0.0089	0.0008
Earth	19499-06-08 11:02 G	8843081.70	8843081.96	8843082.22	0.0089	0.0005 *
Moon	19500-06-10 23:45 G	8843449.22	8843449.49	8843449.76	0.0089	0.0002
Earth	19500-06-11 00:14 G	8843449.25	8843449.51	8843449.77	0.0089	0.0004 *
Earth	19501-06-13 13:26 G	8843816.80	8843817.06	8843817.32	0.0089	0.0002
Moon	19501-06-13 14:38 G	8843816.86	8843817.11	8843817.36	0.0089	0.0004 *
Moon	19502-06-15 23:45 G	8844184.23	8844184.49	8844184.76	0.0089	0.0001
Earth	19502-06-16 02:38 G	8844184.35	8844184.61	8844184.87	0.0089	0.0001 *
Earth	19503-06-18 15:50 G	8844551.90	8844552.16	8844552.42	0.0089	0.0001

Moon	19503-06-18 18:57 G	8844552.04	8844552.29	8844552.55	0.0089	0.0002	*
Moon	19504-06-20 01:12 G	8844919.30	8844919.55	8844919.82	0.0089	0.0003	
Earth	19504-06-20 04:48 G	8844919.45	8844919.70	8844919.97	0.0089	0.0003	*
Earth	19505-06-22 18:00 G	8845286.99	8845287.25	8845287.51	0.0089	0.0003	
Moon	19505-06-22 21:36 G	8845287.14	8845287.40	8845287.67	0.0089	0.0002	*
Moon	19506-06-25 04:33 G	8845654.44	8845654.69	8845654.94	0.0089	0.0005	
Earth	19506-06-25 07:26 G	8845654.55	8845654.81	8845655.07	0.0089	0.0004	*
Earth	19507-06-27 20:38 G	8846022.10	8846022.36	8846022.62	0.0089	0.0006	
Moon	19507-06-27 23:02 G	8846022.20	8846022.46	8846022.73	0.0089	0.0006	*
Moon	19508-06-29 08:52 G	8846389.62	8846389.87	8846390.12	0.0090	0.0008	
Earth	19508-06-29 09:50 G	8846389.66	8846389.91	8846390.17	0.0090	0.0007	*
Moon	19509-07-01 23:02 G	8846757.19	8846757.46	8846757.73	0.0090	0.0008	
Earth	19509-07-01 23:02 G	8846757.21	8846757.46	8846757.72	0.0090	0.0008	*
Earth	19510-07-04 12:28 G	8847124.76	8847125.02	8847125.28	0.0090	0.0010	
Moon	19510-07-04 13:26 G	8847124.81	8847125.06	8847125.31	0.0090	0.0010	*
Moon	19511-07-06 22:48 G	8847492.20	8847492.45	8847492.73	0.0090	0.0011	
Earth	19511-07-07 01:40 G	8847492.32	8847492.57	8847492.83	0.0090	0.0011	*
Earth	19512-07-08 14:24 G	8847859.86	8847860.10	8847860.37	0.0090	0.0013	
Moon	19512-07-08 17:31 G	8847859.98	8847860.23	8847860.49	0.0090	0.0012	*
Moon	19513-07-11 00:14 G	8848227.25	8848227.51	8848227.77	0.0090	0.0014	
Earth	19513-07-11 03:36 G	8848227.40	8848227.65	8848227.92	0.0090	0.0014	*
Earth	19514-07-13 16:48 G	8848594.95	8848595.20	8848595.46	0.0090	0.0015	
Moon	19514-07-13 20:24 G	8848595.10	8848595.35	8848595.61	0.0090	0.0014	*
Moon	19515-07-16 02:38 G	8848962.37	8848962.61	8848962.87	0.0090	0.0016	
Earth	19515-07-16 05:45 G	8848962.49	8848962.74	8848963.00	0.0090	0.0016	*
Earth	19516-07-17 18:43 G	8849330.03	8849330.28	8849330.54	0.0090	0.0017	
Moon	19516-07-17 21:21 G	8849330.14	8849330.39	8849330.66	0.0090	0.0016	*
Moon	19517-07-20 06:28 G	8849697.53	8849697.77	8849698.02	0.0090	0.0019	
Earth	19517-07-20 07:40 G	8849697.57	8849697.82	8849698.08	0.0090	0.0018	*
Earth	19518-07-22 20:24 G	8850065.11	8850065.35	8850065.62	0.0090	0.0020	

Moon	19518-07-22 21:07 G	8850065.12	8850065.38	8850065.65	0.0090	0.0018	*
Earth	19519-07-25 09:36 G	8850432.66	8850432.90	8850433.16	0.0090	0.0020	
Moon	19519-07-25 10:19 G	8850432.69	8850432.93	8850433.18	0.0090	0.0022	*
Moon	19520-07-26 20:09 G	8850800.09	8850800.34	8850800.61	0.0090	0.0020	
Earth	19520-07-26 22:19 G	8850800.20	8850800.43	8850800.70	0.0090	0.0022	*
Earth	19521-07-29 11:31 G	8851167.74	8851167.98	8851168.24	0.0089	0.0022	
Moon	19521-07-29 14:24 G	8851167.86	8851168.10	8851168.34	0.0089	0.0024	*
Moon	19522-07-31 21:07 G	8851535.14	8851535.38	8851535.64	0.0089	0.0021	
Earth	19522-08-01 00:28 G	8851535.29	8851535.52	8851535.79	0.0089	0.0024	*
Earth	19523-08-03 13:12 G	8851902.82	8851903.05	8851903.32	0.0089	0.0025	
Moon	19523-08-03 17:02 G	8851902.97	8851903.21	8851903.47	0.0089	0.0026	*
Moon	19524-08-04 23:02 G	8852270.22	8852270.46	8852270.71	0.0089	0.0023	
Earth	19524-08-05 02:09 G	8852270.36	8852270.59	8852270.85	0.0089	0.0025	*
Earth	19525-08-07 15:07 G	8852637.88	8852638.13	8852638.38	0.0089	0.0026	
Moon	19525-08-07 18:00 G	8852638.01	8852638.25	8852638.50	0.0089	0.0029	*
Moon	19526-08-10 02:09 G	8853005.36	8853005.59	8853005.84	0.0089	0.0025	
Earth	19526-08-10 03:36 G	8853005.41	8853005.65	8853005.91	0.0089	0.0027	*
Earth	19527-08-12 16:04 G	8853372.94	8853373.17	8853373.43	0.0089	0.0028	
Moon	19527-08-12 17:02 G	8853372.96	8853373.21	8853373.47	0.0089	0.0030	*
Earth	19528-08-14 04:19 G	8853740.46	8853740.68	8853740.94	0.0089	0.0029	
Moon	19528-08-14 05:02 G	8853740.48	8853740.71	8853740.96	0.0089	0.0025	*
Moon	19529-08-16 15:07 G	8854107.89	8854108.13	8854108.38	0.0089	0.0031	
Earth	19529-08-16 17:16 G	8854107.98	8854108.22	8854108.47	0.0089	0.0029	*
Earth	19530-08-19 05:31 G	8854475.50	8854475.73	8854475.99	0.0089	0.0030	
Moon	19530-08-19 08:09 G	8854475.61	8854475.84	8854476.09	0.0089	0.0027	*
Moon	19531-08-21 14:24 G	8854842.88	8854843.10	8854843.36	0.0089	0.0034	
Earth	19531-08-21 18:14 G	8854843.02	8854843.26	8854843.50	0.0089	0.0030	*
Earth	19532-08-23 06:28 G	8855210.53	8855210.77	8855211.02	0.0089	0.0030	
Moon	19532-08-23 10:04 G	8855210.68	8855210.92	8855211.17	0.0089	0.0028	*
Moon	19533-08-25 15:36 G	8855577.92	8855578.15	8855578.39	0.0089	0.0034	

Earth	19533-08-25 18:43 G	8855578.06	8855578.28	8855578.54	0.0089	0.0031	*
Earth	19534-08-28 07:12 G	8855945.57	8855945.80	8855946.05	0.0089	0.0032	
Moon	19534-08-28 10:19 G	8855945.69	8855945.93	8855946.19	0.0089	0.0028	*
Moon	19535-08-30 18:00 G	8856313.03	8856313.25	8856313.49	0.0089	0.0035	
Earth	19535-08-30 19:55 G	8856313.09	8856313.33	8856313.57	0.0089	0.0032	*
Earth	19536-09-01 07:40 G	8856680.59	8856680.82	8856681.07	0.0089	0.0032	
Moon	19536-09-01 08:52 G	8856680.62	8856680.87	8856681.13	0.0089	0.0028	*
Earth	19537-09-03 19:55 G	8857048.10	8857048.33	8857048.58	0.0089	0.0032	
Moon	19537-09-03 20:09 G	8857048.13	8857048.34	8857048.58	0.0089	0.0036	*
Moon	19538-09-06 06:00 G	8857415.51	8857415.75	8857416.01	0.0089	0.0029	
Earth	19538-09-06 08:09 G	8857415.61	8857415.84	8857416.08	0.0089	0.0032	*
Earth	19539-09-08 19:55 G	8857783.09	8857783.33	8857783.57	0.0089	0.0032	
Moon	19539-09-08 22:04 G	8857783.20	8857783.42	8857783.66	0.0089	0.0037	*
Moon	19540-09-10 04:19 G	8858150.44	8858150.68	8858150.93	0.0089	0.0028	
Earth	19540-09-10 07:55 G	8858150.59	8858150.83	8858151.07	0.0089	0.0033	*
Earth	19541-09-12 19:40 G	8858518.08	8858518.32	8858518.56	0.0089	0.0033	
Moon	19541-09-12 23:02 G	8858518.23	8858518.46	8858518.70	0.0089	0.0036	*
Mars	19541-09-14 20:52 G	8858520.11	8858520.37	8858520.66	0.0089	0.0034	
Moon	19542-09-15 04:04 G	8858885.43	8858885.67	8858885.91	0.0089	0.0028	
Earth	19542-09-15 06:57 G	8858885.57	8858885.79	8858886.05	0.0089	0.0033	*
Mars	19543-08-09 23:16 G	8859214.23	8859214.47	8859214.75	0.0089	0.0044	
Earth	19543-09-17 18:57 G	8859253.06	8859253.29	8859253.53	0.0089	0.0033	
Moon	19543-09-17 21:50 G	8859253.18	8859253.41	8859253.66	0.0089	0.0037	*
Moon	19544-09-19 04:48 G	8859620.48	8859620.70	8859620.95	0.0089	0.0029	
Earth	19544-09-19 06:43 G	8859620.54	8859620.78	8859621.02	0.0089	0.0032	*
Earth	19545-09-21 18:14 G	8859988.03	8859988.26	8859988.50	0.0089	0.0032	
Moon	19545-09-21 19:12 G	8859988.07	8859988.30	8859988.55	0.0089	0.0036	*
Earth	19546-09-24 05:45 G	8860355.51	8860355.74	8860355.99	0.0089	0.0032	
Moon	19546-09-24 06:14 G	8860355.53	8860355.76	8860356.01	0.0089	0.0028	*
Moon	19547-09-26 15:07 G	8860722.91	8860723.13	8860723.39	0.0089	0.0036	

Earth	19547-09-26 17:16 G	8860722.99	8860723.22	8860723.47	0.0089	0.0032 *
Earth	19548-09-28 04:33 G	8861090.47	8861090.69	8861090.95	0.0089	0.0032
Moon	19548-09-28 07:26 G	8861090.57	8861090.81	8861091.05	0.0089	0.0027 *
Moon	19549-09-30 12:43 G	8861457.81	8861458.03	8861458.28	0.0089	0.0036
Earth	19549-09-30 16:33 G	8861457.95	8861458.19	8861458.43	0.0089	0.0031 *
Earth	19550-10-03 03:36 G	8861825.42	8861825.65	8861825.90	0.0089	0.0031
Moon	19550-10-03 06:57 G	8861825.56	8861825.79	8861826.05	0.0089	0.0027 *
Moon	19551-10-05 11:16 G	8862192.75	8862192.97	8862193.22	0.0089	0.0035
Earth	19551-10-05 14:38 G	8862192.89	8862193.11	8862193.37	0.0089	0.0031 *
Earth	19552-10-07 01:55 G	8862560.34	8862560.58	8862560.83	0.0089	0.0030
Moon	19552-10-07 05:02 G	8862560.46	8862560.71	8862560.96	0.0089	0.0025 *
Moon	19553-10-09 11:16 G	8862927.76	8862927.97	8862928.22	0.0089	0.0034
Earth	19553-10-09 12:43 G	8862927.81	8862928.03	8862928.29	0.0089	0.0030 *
Earth	19554-10-12 00:00 G	8863295.27	8863295.50	8863295.75	0.0089	0.0029
Moon	19554-10-12 00:43 G	8863295.29	8863295.53	8863295.80	0.0089	0.0025 *
Earth	19555-10-14 11:02 G	8863662.72	8863662.96	8863663.21	0.0089	0.0028
Moon	19555-10-14 11:31 G	8863662.76	8863662.98	8863663.22	0.0089	0.0033 *
Moon	19556-10-15 19:40 G	8864030.08	8864030.32	8864030.59	0.0089	0.0024
Earth	19556-10-15 21:50 G	8864030.18	8864030.41	8864030.67	0.0089	0.0028 *
Earth	19557-10-18 08:52 G	8864397.63	8864397.87	8864398.12	0.0089	0.0027
Moon	19557-10-18 11:16 G	8864397.75	8864397.97	8864398.22	0.0089	0.0032 *
Moon	19558-10-20 16:04 G	8864764.93	8864765.17	8864765.44	0.0089	0.0022
Earth	19558-10-20 19:40 G	8864765.09	8864765.32	8864765.58	0.0089	0.0027 *
Earth	19559-10-23 06:43 G	8865132.54	8865132.78	8865133.03	0.0088	0.0025
Moon	19559-10-23 10:19 G	8865132.69	8865132.93	8865133.18	0.0088	0.0030 *
Moon	19560-10-24 14:09 G	8865499.86	8865500.09	8865500.35	0.0088	0.0021
Earth	19560-10-24 17:45 G	8865500.00	8865500.24	8865500.49	0.0088	0.0025 *
Earth	19561-10-27 04:33 G	8865867.45	8865867.69	8865867.94	0.0088	0.0024
Moon	19561-10-27 06:57 G	8865867.56	8865867.79	8865868.06	0.0088	0.0029 *
Moon	19562-10-29 13:55 G	8866234.85	8866235.08	8866235.33	0.0088	0.0019

Earth	19562-10-29 15:21 G	8866234.90	8866235.14	8866235.39	0.0088	0.0023 *
Earth	19563-11-01 01:55 G	8866602.33	8866602.58	8866602.83	0.0088	0.0022
Moon	19563-11-01 02:09 G	8866602.35	8866602.59	8866602.86	0.0088	0.0027 *
Earth	19564-11-02 12:14 G	8866969.77	8866970.01	8866970.27	0.0088	0.0021
Moon	19564-11-02 13:26 G	8866969.82	8866970.06	8866970.31	0.0088	0.0016 *
Moon	19565-11-04 20:24 G	8867337.11	8867337.35	8867337.62	0.0088	0.0025
Earth	19565-11-04 23:16 G	8867337.22	8867337.47	8867337.72	0.0088	0.0020 *
Venus	19566-09-04 14:09 G	8867641.02	8867641.09	8867641.19	0.0088	0.0081
Earth	19566-11-07 09:07 G	8867704.65	8867704.88	8867705.15	0.0088	0.0020
Moon	19566-11-07 12:00 G	8867704.76	8867705.00	8867705.26	0.0088	0.0015 *
Venus	19567-04-18 02:38 G	8867866.48	8867866.61	8867866.79	0.0088	0.0062
Moon	19567-11-09 16:19 G	8868071.93	8868072.18	8868072.43	0.0088	0.0023
Earth	19567-11-09 19:40 G	8868072.09	8868072.32	8868072.59	0.0088	0.0019 *
Venus	19567-11-29 15:36 G	8868091.97	8868092.15	8868092.36	0.0088	0.0043
Venus	19568-07-12 04:33 G	8868317.48	8868317.69	8868317.91	0.0088	0.0023
Earth	19568-11-11 06:14 G	8868439.52	8868439.76	8868440.02	0.0088	0.0017
Moon	19568-11-11 09:50 G	8868439.66	8868439.91	8868440.17	0.0088	0.0012 *
Venus	19569-02-22 17:31 G	8868543.01	8868543.23	8868543.45	0.0088	0.0003
Venus	19569-10-06 06:14 G	8868768.54	8868768.76	8868768.98	0.0088	0.0017
Moon	19569-11-13 13:26 G	8868806.83	8868807.06	8868807.32	0.0088	0.0020
Earth	19569-11-13 16:48 G	8868806.95	8868807.20	8868807.46	0.0088	0.0016 *
Venus	19570-05-19 18:43 G	8868994.09	8868994.28	8868994.49	0.0088	0.0036
Earth	19570-11-16 03:21 G	8869174.38	8869174.64	8869174.89	0.0088	0.0015
Moon	19570-11-16 05:31 G	8869174.48	8869174.73	8869175.00	0.0088	0.0010 *
Venus	19570-12-31 07:12 G	8869219.65	8869219.80	8869219.99	0.0088	0.0056
Venus	19571-08-13 20:24 G	8869445.25	8869445.35	8869445.47	0.0088	0.0075
Moon	19571-11-18 12:43 G	8869541.79	8869542.03	8869542.28	0.0088	0.0018
Earth	19571-11-18 13:40 G	8869541.82	8869542.07	8869542.32	0.0088	0.0013 *
Earth	19572-11-20 00:00 G	8869909.25	8869909.50	8869909.76	0.0088	0.0012
Moon	19572-11-20 00:14 G	8869909.25	8869909.51	8869909.78	0.0088	0.0008 *

Earth	19573-11-22 10:33 G	8870276.69	8870276.94	8870277.19	0.0088	0.0011
Moon	19573-11-22 11:45 G	8870276.75	8870276.99	8870277.24	0.0088	0.0016 *
Mercury	19574-08-23 17:02 G	8870551.17	8870551.21	8870551.28	0.0088	0.0081
Mercury	19574-11-19 18:57 G	8870639.22	8870639.29	8870639.39	0.0088	0.0074
Moon	19574-11-24 18:00 G	8870644.00	8870644.25	8870644.52	0.0088	0.0006
Earth	19574-11-24 20:38 G	8870644.11	8870644.36	8870644.62	0.0088	0.0010 *
Mercury	19575-02-15 21:07 G	8870727.29	8870727.38	8870727.48	0.0088	0.0066
Mercury	19575-05-14 22:48 G	8870815.35	8870815.45	8870815.57	0.0088	0.0059
Mercury	19575-08-11 00:57 G	8870903.42	8870903.54	8870903.66	0.0088	0.0051
Mercury	19575-11-07 02:38 G	8870991.49	8870991.61	8870991.75	0.0088	0.0044
Earth	19575-11-27 06:57 G	8871011.54	8871011.79	8871012.05	0.0088	0.0009
Moon	19575-11-27 09:50 G	8871011.67	8871011.91	8871012.17	0.0088	0.0013 *
Mercury	19576-02-03 04:33 G	8871079.56	8871079.69	8871079.84	0.0088	0.0037
Mercury	19576-05-01 06:43 G	8871167.64	8871167.78	8871167.92	0.0088	0.0029
Mercury	19576-07-28 08:24 G	8871255.71	8871255.85	8871256.01	0.0088	0.0022
Mercury	19576-10-24 10:33 G	8871343.79	8871343.94	8871344.09	0.0088	0.0014
Moon	19576-11-28 13:40 G	8871378.81	8871379.07	8871379.32	0.0088	0.0003
Earth	19576-11-28 17:16 G	8871378.97	8871379.22	8871379.48	0.0088	0.0008 *
Mercury	19577-01-20 12:28 G	8871431.87	8871432.02	8871432.17	0.0088	0.0007
Mercury	19577-04-18 14:24 G	8871519.95	8871520.10	8871520.26	0.0088	0.0002
Mercury	19577-07-15 16:19 G	8871608.03	8871608.18	8871608.34	0.0088	0.0009
Mercury	19577-10-11 18:28 G	8871696.12	8871696.27	8871696.42	0.0088	0.0016
Earth	19577-12-01 03:21 G	8871746.38	8871746.64	8871746.89	0.0088	0.0006
Moon	19577-12-01 06:28 G	8871746.52	8871746.77	8871747.03	0.0088	0.0011 *
Mercury	19578-01-07 20:09 G	8871784.20	8871784.34	8871784.50	0.0088	0.0024
Mercury	19578-04-05 22:19 G	8871872.29	8871872.43	8871872.58	0.0088	0.0031
Mercury	19578-07-03 00:14 G	8871960.38	8871960.51	8871960.65	0.0088	0.0039
Mercury	19578-09-29 02:09 G	8872048.47	8872048.59	8872048.73	0.0088	0.0047
Moon	19578-12-03 10:33 G	8872113.69	8872113.94	8872114.19	0.0088	0.0001
Earth	19578-12-03 13:26 G	8872113.81	8872114.06	8872114.32	0.0088	0.0005 *

Mercury	19578-12-26 04:04 G	8872136.56	8872136.67	8872136.81	0.0088	0.0055
Mercury	19579-03-24 06:14 G	8872224.66	8872224.76	8872224.88	0.0088	0.0062
Mercury	19579-06-20 08:09 G	8872312.76	8872312.84	8872312.95	0.0088	0.0070
Mercury	19579-09-16 10:19 G	8872400.87	8872400.93	8872401.01	0.0088	0.0078
Earth	19579-12-05 23:31 G	8872481.23	8872481.48	8872481.74	0.0088	0.0004
Moon	19579-12-06 01:26 G	8872481.30	8872481.56	8872481.83	0.0088	0.0009 *
Mercury	19579-12-13 12:14 G	8872488.99	8872489.01	8872489.06	0.0088	0.0086
Moon	19580-12-07 09:07 G	8872848.64	8872848.88	8872849.13	0.0088	0.0002
Earth	19580-12-07 09:36 G	8872848.65	8872848.90	8872849.16	0.0088	0.0003 *
Moon	19581-12-09 19:26 G	8873216.05	8873216.31	8873216.58	0.0088	0.0006
Earth	19581-12-09 19:40 G	8873216.07	8873216.32	8873216.58	0.0088	0.0002 *
Earth	19582-12-12 05:45 G	8873583.48	8873583.74	8873584.00	0.0088	0.0001
Moon	19582-12-12 07:40 G	8873583.57	8873583.82	8873584.07	0.0088	0.0004 *
Moon	19583-12-14 12:57 G	8873950.79	8873951.04	8873951.31	0.0088	0.0004
Earth	19583-12-14 16:04 G	8873950.91	8873951.17	8873951.43	0.0088	0.0001 *
Earth	19584-12-16 02:09 G	8874318.34	8874318.59	8874318.85	0.0088	0.0002
Moon	19584-12-16 05:31 G	8874318.47	8874318.73	8874318.98	0.0088	0.0006 *
Jupiter	19585-05-20 16:48 G	8874473.79	8874474.20	8874474.70	0.0088	0.0052
Moon	19585-12-18 08:38 G	8874685.61	8874685.86	8874686.12	0.0088	0.0002
Earth	19585-12-18 12:28 G	8874685.76	8874686.02	8874686.27	0.0088	0.0003 *
Earth	19586-12-20 22:33 G	8875053.18	8875053.44	8875053.70	0.0088	0.0004
Moon	19586-12-21 01:40 G	8875053.31	8875053.57	8875053.83	0.0088	0.0009 *
Moon	19587-12-23 06:00 G	8875420.50	8875420.75	8875421.00	0.0088	0.0002
Earth	19587-12-23 08:38 G	8875420.61	8875420.86	8875421.12	0.0088	0.0006 *
Earth	19588-12-24 18:43 G	8875788.03	8875788.28	8875788.54	0.0088	0.0007
Moon	19588-12-24 20:24 G	8875788.09	8875788.35	8875788.61	0.0088	0.0011 *
Earth	19589-12-27 05:02 G	8876155.45	8876155.71	8876155.96	0.0088	0.0008
Moon	19589-12-27 04:48 G	8876155.46	8876155.70	8876155.95	0.0088	0.0004 *
Moon	19590-12-29 14:09 G	8876522.83	8876523.09	8876523.35	0.0088	0.0013
Earth	19590-12-29 14:52 G	8876522.87	8876523.12	8876523.38	0.0088	0.0009 *



Earth	19592-01-01 00:57 G	8876890.29	8876890.54	8876890.80	0.0088	0.0011
Moon	19592-01-01 03:21 G	8876890.39	8876890.64	8876890.89	0.0088	0.0006 *
Moon	19593-01-02 07:55 G	8877257.58	8877257.83	8877258.10	0.0088	0.0016
Earth	19593-01-02 11:02 G	8877257.72	8877257.96	8877258.23	0.0088	0.0012 *
Earth	19594-01-04 21:07 G	8877625.13	8877625.38	8877625.64	0.0088	0.0013
Moon	19594-01-05 00:28 G	8877625.27	8877625.52	8877625.78	0.0088	0.0009 *
Moon	19595-01-07 03:50 G	8877992.41	8877992.66	8877992.91	0.0088	0.0018
Earth	19595-01-07 07:26 G	8877992.56	8877992.81	8877993.07	0.0088	0.0014 *
Earth	19596-01-09 17:31 G	8878359.98	8878360.23	8878360.49	0.0088	0.0015
Moon	19596-01-09 20:38 G	8878360.10	8878360.36	8878360.62	0.0088	0.0011 *
Moon	19597-01-11 01:26 G	8878727.32	8878727.56	8878727.81	0.0088	0.0020
Earth	19597-01-11 03:50 G	8878727.42	8878727.66	8878727.92	0.0088	0.0016 *
Earth	19598-01-13 14:24 G	8879094.85	8879095.10	8879095.35	0.0088	0.0017
Moon	19598-01-13 15:21 G	8879094.88	8879095.14	8879095.41	0.0088	0.0013 *
Earth	19599-01-16 00:43 G	8879462.28	8879462.53	8879462.78	0.0088	0.0018
Moon	19599-01-16 00:57 G	8879462.31	8879462.54	8879462.79	0.0088	0.0022 *
Moon	19600-01-18 09:50 G	8879829.66	8879829.91	8879830.18	0.0088	0.0015
Earth	19600-01-18 11:02 G	8879829.72	8879829.96	8879830.22	0.0088	0.0019 *
Earth	19601-01-19 21:21 G	8880197.15	8880197.39	8880197.65	0.0088	0.0020
Moon	19601-01-20 00:14 G	8880197.27	8880197.51	8880197.75	0.0088	0.0024 *
Moon	19602-01-22 04:19 G	8880564.44	8880564.68	8880564.95	0.0088	0.0017
Earth	19602-01-22 07:40 G	8880564.58	8880564.82	8880565.08	0.0088	0.0021 *
Earth	19603-01-24 18:00 G	8880932.01	8880932.25	8880932.51	0.0088	0.0022
Moon	19603-01-24 21:50 G	8880932.16	8880932.41	8880932.65	0.0088	0.0025 *
Moon	19604-01-27 00:57 G	8881299.31	8881299.54	8881299.80	0.0088	0.0019
Earth	19604-01-27 04:33 G	8881299.45	8881299.69	8881299.95	0.0088	0.0023 *
Earth	19605-01-28 14:38 G	8881666.88	8881667.11	8881667.38	0.0088	0.0024
Moon	19605-01-28 17:31 G	8881666.99	8881667.23	8881667.49	0.0088	0.0027 *
Moon	19606-01-30 23:16 G	8882034.24	8882034.47	8882034.72	0.0088	0.0021
Earth	19606-01-31 01:40 G	8882034.32	8882034.57	8882034.82	0.0088	0.0024 *

Earth	19607-02-02 12:00 G	8882401.76	8882402.00	8882402.25	0.0088	0.0025
Moon	19607-02-02 12:28 G	8882401.78	8882402.02	8882402.28	0.0088	0.0029 *
Earth	19608-02-04 22:33 G	8882769.20	8882769.44	8882769.69	0.0088	0.0026
Moon	19608-02-04 23:31 G	8882769.24	8882769.48	8882769.72	0.0088	0.0022 *
Moon	19609-02-06 07:26 G	8883136.58	8883136.81	8883137.08	0.0088	0.0030
Earth	19609-02-06 09:21 G	8883136.65	8883136.89	8883137.14	0.0088	0.0026 *
Earth	19610-02-08 19:55 G	8883504.09	8883504.33	8883504.58	0.0088	0.0027
Moon	19610-02-08 23:02 G	8883504.21	8883504.46	8883504.70	0.0088	0.0023 *
Moon	19611-02-11 03:36 G	8883871.41	8883871.65	8883871.89	0.0088	0.0031
Earth	19611-02-11 06:43 G	8883871.55	8883871.78	8883872.04	0.0088	0.0028 *
Earth	19612-02-13 17:45 G	8884239.00	8884239.24	8884239.49	0.0088	0.0028
Moon	19612-02-13 21:21 G	8884239.15	8884239.39	8884239.64	0.0088	0.0025 *
Moon	19613-02-15 00:57 G	8884606.32	8884606.54	8884606.79	0.0088	0.0033
Earth	19613-02-15 04:19 G	8884606.45	8884606.68	8884606.94	0.0088	0.0029 *
Earth	19614-02-17 15:21 G	8884973.90	8884974.14	8884974.39	0.0088	0.0029
Moon	19614-02-17 17:45 G	8884974.00	8884974.24	8884974.50	0.0088	0.0026 *
Moon	19615-02-20 00:28 G	8885341.29	8885341.52	8885341.76	0.0088	0.0032
Earth	19615-02-20 01:55 G	8885341.36	8885341.58	8885341.84	0.0088	0.0030 *
Earth	19616-02-22 12:57 G	8885708.81	8885709.04	8885709.30	0.0088	0.0030
Moon	19616-02-22 13:12 G	8885708.81	8885709.05	8885709.32	0.0088	0.0027 *
Earth	19617-02-24 00:00 G	8886076.27	8886076.50	8886076.75	0.0088	0.0030
Moon	19617-02-24 01:12 G	8886076.32	8886076.55	8886076.78	0.0088	0.0033 *
Moon	19618-02-26 08:52 G	8886443.64	8886443.87	8886444.14	0.0088	0.0028
Earth	19618-02-26 11:16 G	8886443.73	8886443.97	8886444.21	0.0088	0.0030 *
Earth	19619-02-28 21:50 G	8886811.19	8886811.41	8886811.67	0.0088	0.0031
Moon	19619-03-01 00:57 G	8886811.32	8886811.54	8886811.79	0.0088	0.0035 *
Moon	19620-03-02 05:45 G	8887178.50	8887178.74	8887179.00	0.0088	0.0028
Earth	19620-03-02 09:07 G	8887178.65	8887178.88	8887179.14	0.0088	0.0031 *
Earth	19621-03-04 20:09 G	8887546.11	8887546.34	8887546.60	0.0088	0.0031
Moon	19621-03-05 00:00 G	8887546.27	8887546.50	8887546.75	0.0088	0.0033 *

Moon	19622-03-07 04:33 G	8887913.46	8887913.69	8887913.94	0.0088	0.0028
Earth	19622-03-07 07:40 G	8887913.59	8887913.82	8887914.07	0.0088	0.0031 *
Earth	19623-03-09 19:12 G	8888281.06	8888281.30	8888281.55	0.0088	0.0031
Moon	19623-03-09 21:50 G	8888281.16	8888281.41	8888281.65	0.0088	0.0034 *
Moon	19624-03-11 05:02 G	8888648.48	8888648.71	8888648.95	0.0088	0.0029
Earth	19624-03-11 06:43 G	8888648.54	8888648.78	8888649.03	0.0088	0.0031 *
Earth	19625-03-13 18:14 G	8889016.02	8889016.26	8889016.51	0.0088	0.0031
Moon	19625-03-13 18:00 G	8889016.02	8889016.25	8889016.52	0.0088	0.0034 *
Mars	19625-07-08 10:33 G	8889132.62	8889132.94	8889133.28	0.0088	0.0009
Earth	19626-03-16 05:31 G	8889383.50	8889383.73	8889383.99	0.0088	0.0032
Moon	19626-03-16 06:43 G	8889383.55	8889383.78	8889384.03	0.0088	0.0029 *
Moon	19627-03-18 15:21 G	8889750.90	8889751.14	8889751.40	0.0088	0.0033
Earth	19627-03-18 17:16 G	8889750.99	8889751.22	8889751.47	0.0088	0.0031 *
Mars	19627-06-03 22:19 G	8889828.30	8889828.43	8889828.62	0.0088	0.0077
Earth	19628-03-20 04:48 G	8890118.47	8890118.70	8890118.96	0.0088	0.0031
Moon	19628-03-20 08:09 G	8890118.61	8890118.84	8890119.09	0.0088	0.0029 *
Moon	19629-03-22 12:57 G	8890485.81	8890486.04	8890486.30	0.0088	0.0033
Earth	19629-03-22 16:48 G	8890485.96	8890486.20	8890486.44	0.0088	0.0031 *
Earth	19630-03-25 04:19 G	8890853.44	8890853.68	8890853.93	0.0088	0.0031
Moon	19630-03-25 07:55 G	8890853.59	8890853.83	8890854.08	0.0088	0.0029 *
Moon	19631-03-27 12:57 G	8891220.81	8891221.04	8891221.29	0.0088	0.0033
Earth	19631-03-27 16:04 G	8891220.94	8891221.17	8891221.42	0.0088	0.0030 *
Earth	19632-03-29 04:04 G	8891588.42	8891588.67	8891588.91	0.0088	0.0030
Moon	19632-03-29 06:14 G	8891588.52	8891588.76	8891589.02	0.0088	0.0029 *
Moon	19633-03-31 14:09 G	8891955.86	8891956.09	8891956.33	0.0088	0.0031
Earth	19633-03-31 15:50 G	8891955.92	8891956.16	8891956.41	0.0088	0.0030 *
Moon	19634-04-03 03:36 G	8892323.41	8892323.65	8892323.92	0.0088	0.0028
Earth	19634-04-03 03:36 G	8892323.42	8892323.65	8892323.91	0.0088	0.0029 *
Earth	19635-04-05 15:50 G	8892690.93	8892691.16	8892691.42	0.0088	0.0029
Moon	19635-04-05 17:02 G	8892690.98	8892691.21	8892691.45	0.0088	0.0030 *

Moon	19636-04-07 02:24 G	8893058.35	8893058.60	8893058.86	0.0089	0.0027
Earth	19636-04-07 04:19 G	8893058.44	8893058.68	8893058.93	0.0089	0.0028 *
Earth	19637-04-09 16:04 G	8893425.94	8893426.17	8893426.44	0.0089	0.0028
Moon	19637-04-09 19:26 G	8893426.08	8893426.31	8893426.56	0.0089	0.0029 *
Moon	19638-04-12 01:26 G	8893793.32	8893793.56	8893793.82	0.0089	0.0026
Earth	19638-04-12 04:48 G	8893793.46	8893793.70	8893793.96	0.0089	0.0027 *
Earth	19639-04-14 17:16 G	8894160.98	8894161.22	8894161.47	0.0089	0.0026
Moon	19639-04-14 21:07 G	8894161.13	8894161.38	8894161.63	0.0089	0.0026 *
Moon	19640-04-16 02:09 G	8894528.36	8894528.59	8894528.85	0.0089	0.0025
Earth	19640-04-16 05:16 G	8894528.49	8894528.72	8894528.99	0.0089	0.0026 *
Earth	19641-04-18 17:45 G	8894896.00	8894896.24	8894896.50	0.0089	0.0025
Moon	19641-04-18 20:24 G	8894896.10	8894896.35	8894896.62	0.0089	0.0025 *
Moon	19642-04-21 04:33 G	8895263.45	8895263.69	8895263.94	0.0089	0.0024
Earth	19642-04-21 06:14 G	8895263.52	8895263.76	8895264.02	0.0089	0.0024 *
Earth	19643-04-23 18:43 G	8895631.04	8895631.28	8895631.54	0.0089	0.0023
Moon	19643-04-23 18:57 G	8895631.04	8895631.29	8895631.55	0.0089	0.0023 *
Earth	19644-04-25 07:12 G	8895998.56	8895998.80	8895999.06	0.0089	0.0022
Moon	19644-04-25 08:09 G	8895998.60	8895998.84	8895999.08	0.0089	0.0022 *
Moon	19645-04-27 17:45 G	8896365.99	8896366.24	8896366.51	0.0089	0.0021
Earth	19645-04-27 19:40 G	8896366.08	8896366.32	8896366.58	0.0089	0.0021 *
Earth	19646-04-30 08:24 G	8896733.60	8896733.85	8896734.11	0.0089	0.0020
Moon	19646-04-30 11:31 G	8896733.74	8896733.98	8896734.23	0.0089	0.0020 *
Moon	19647-05-02 17:45 G	8897100.99	8897101.24	8897101.51	0.0089	0.0019
Earth	19647-05-02 21:21 G	8897101.14	8897101.39	8897101.64	0.0089	0.0019 *
Earth	19648-05-04 09:50 G	8897468.66	8897468.91	8897469.17	0.0089	0.0018
Moon	19648-05-04 13:26 G	8897468.82	8897469.06	8897469.32	0.0089	0.0020 *
Moon	19649-05-06 19:26 G	8897836.07	8897836.31	8897836.57	0.0089	0.0017
Earth	19649-05-06 22:48 G	8897836.20	8897836.45	8897836.71	0.0089	0.0017 *
Venus	19650-01-14 00:43 G	8898088.44	8898088.53	8898088.64	0.0089	0.0079
Earth	19650-05-09 11:31 G	8898203.74	8898203.98	8898204.25	0.0089	0.0017

Moon	19650-05-09 14:24 G	8898203.85	8898204.10	8898204.37	0.0089	0.0018 *
Venus	19650-08-27 13:55 G	8898313.93	8898314.08	8898314.26	0.0089	0.0059
Venus	19651-04-10 03:07 G	8898539.45	8898539.63	8898539.84	0.0089	0.0039
Moon	19651-05-11 22:48 G	8898571.20	8898571.45	8898571.70	0.0089	0.0013
Earth	19651-05-12 00:43 G	8898571.28	8898571.53	8898571.79	0.0089	0.0015 *
Venus	19651-11-21 16:48 G	8898764.98	8898765.20	8898765.41	0.0089	0.0019
Earth	19652-05-13 13:26 G	8898938.81	8898939.06	8898939.32	0.0089	0.0014
Moon	19652-05-13 13:55 G	8898938.82	8898939.08	8898939.35	0.0089	0.0015 *
Venus	19652-07-04 06:00 G	8898990.52	8898990.75	8898990.97	0.0089	0.0003
Venus	19653-02-14 18:57 G	8899216.09	8899216.29	8899216.51	0.0089	0.0022
Earth	19653-05-16 02:09 G	8899306.35	8899306.59	8899306.86	0.0089	0.0014
Moon	19653-05-16 02:52 G	8899306.37	8899306.62	8899306.87	0.0089	0.0011 *
Venus	19653-09-28 08:09 G	8899441.66	8899441.84	8899442.04	0.0089	0.0042
Venus	19654-05-11 21:21 G	8899667.24	8899667.39	8899667.55	0.0089	0.0062
Moon	19654-05-18 13:55 G	8899673.81	8899674.08	8899674.34	0.0089	0.0014
Earth	19654-05-18 15:21 G	8899673.89	8899674.14	8899674.40	0.0089	0.0012 *
Venus	19654-12-23 10:19 G	8899892.86	8899892.93	8899893.02	0.0089	0.0083
Earth	19655-05-21 04:19 G	8900041.43	8900041.68	8900041.94	0.0089	0.0011
Moon	19655-05-21 07:12 G	8900041.55	8900041.80	8900042.06	0.0089	0.0009 *
Moon	19656-05-22 13:55 G	8900408.83	8900409.08	8900409.35	0.0089	0.0012
Earth	19656-05-22 17:16 G	8900408.96	8900409.22	8900409.48	0.0089	0.0009 *
Earth	19657-05-25 06:00 G	8900776.50	8900776.75	8900777.02	0.0089	0.0009
Moon	19657-05-25 09:50 G	8900776.66	8900776.91	8900777.17	0.0089	0.0006 *
Mercury	19657-11-20 09:21 G	8900955.87	8900955.89	8900955.94	0.0089	0.0087
Mercury	19658-02-16 12:00 G	8901043.93	8901044.00	8901044.08	0.0089	0.0078
Mercury	19658-05-15 14:38 G	8901132.01	8901132.11	8901132.21	0.0089	0.0070
Moon	19658-05-27 15:50 G	8901143.91	8901144.16	8901144.42	0.0089	0.0009
Earth	19658-05-27 19:12 G	8901144.05	8901144.30	8901144.57	0.0089	0.0007 *
Mercury	19658-08-11 16:48 G	8901220.09	8901220.20	8901220.33	0.0089	0.0061
Mercury	19658-11-07 19:26 G	8901308.18	8901308.31	8901308.44	0.0089	0.0053

Mercury	19659-02-03 21:36 G	8901396.27	8901396.40	8901396.55	0.0089	0.0044
Mercury	19659-05-03 00:14 G	8901484.36	8901484.51	8901484.66	0.0089	0.0036
Earth	19659-05-30 08:24 G	8901511.59	8901511.85	8901512.11	0.0089	0.0006
Moon	19659-05-30 11:16 G	8901511.71	8901511.97	8901512.24	0.0089	0.0003 *
Mercury	19659-07-30 02:24 G	8901572.45	8901572.60	8901572.76	0.0089	0.0027
Mercury	19659-10-26 04:48 G	8901660.55	8901660.70	8901660.86	0.0089	0.0019
Mercury	19660-01-22 07:12 G	8901748.64	8901748.80	8901748.96	0.0089	0.0011
Mercury	19660-04-19 09:36 G	8901836.74	8901836.90	8901837.06	0.0089	0.0002
Moon	19660-05-31 19:12 G	8901879.05	8901879.30	8901879.56	0.0089	0.0008
Earth	19660-05-31 21:36 G	8901879.14	8901879.40	8901879.66	0.0089	0.0004 *
Mercury	19660-07-16 12:00 G	8901924.84	8901925.00	8901925.16	0.0089	0.0006
Mercury	19660-10-12 14:09 G	8902012.93	8902013.09	8902013.25	0.0089	0.0015
Mercury	19661-01-08 16:19 G	8902101.03	8902101.18	8902101.35	0.0089	0.0024
Mercury	19661-04-06 18:43 G	8902189.14	8902189.28	8902189.44	0.0089	0.0031
Earth	19661-06-03 10:48 G	8902246.69	8902246.95	8902247.21	0.0089	0.0003
Moon	19661-06-03 11:31 G	8902246.71	8902246.98	8902247.25	0.0089	0.0001 *
Mercury	19661-07-03 20:52 G	8902277.24	8902277.37	8902277.52	0.0089	0.0040
Mercury	19661-09-29 23:16 G	8902365.34	8902365.47	8902365.61	0.0089	0.0048
Mercury	19661-12-27 01:40 G	8902453.45	8902453.57	8902453.69	0.0089	0.0056
Mercury	19662-03-25 03:50 G	8902541.55	8902541.66	8902541.77	0.0089	0.0064
Earth	19662-06-06 00:00 G	8902614.24	8902614.50	8902614.76	0.0089	0.0002
Moon	19662-06-06 00:00 G	8902614.25	8902614.50	8902614.75	0.0089	0.0005 *
Mercury	19662-06-21 05:45 G	8902629.66	8902629.74	8902629.85	0.0089	0.0072
Mercury	19662-09-17 07:55 G	8902717.78	8902717.83	8902717.92	0.0089	0.0081
Mercury	19662-12-14 10:04 G	8902805.92	8902805.92	8902805.97	0.0089	0.0089
Moon	19663-06-08 12:00 G	8902981.74	8902982.00	8902982.27	0.0089	0.0003
Earth	19663-06-08 13:26 G	8902981.80	8902982.06	8902982.32	0.0089	0.0001 *
Earth	19664-06-10 02:38 G	8903349.35	8903349.61	8903349.87	0.0089	0.0001
Moon	19664-06-10 05:02 G	8903349.46	8903349.71	8903349.97	0.0089	0.0003 *
Moon	19665-06-12 12:43 G	8903716.77	8903717.03	8903717.30	0.0089	0.0006

Earth	19665-06-12 15:50 G	8903716.90	8903717.16	8903717.42	0.0089	0.0002 *
Earth	19666-06-15 05:02 G	8904084.45	8904084.71	8904084.97	0.0089	0.0003
Moon	19666-06-15 08:52 G	8904084.61	8904084.87	8904085.12	0.0089	0.0002 *
Moon	19667-06-17 14:52 G	8904451.86	8904452.12	8904452.37	0.0089	0.0008
Earth	19667-06-17 18:14 G	8904452.00	8904452.26	8904452.52	0.0089	0.0004 *
Earth	19668-06-19 07:26 G	8904819.55	8904819.81	8904820.07	0.0089	0.0006
Moon	19668-06-19 10:33 G	8904819.68	8904819.94	8904820.21	0.0089	0.0002 *
Moon	19669-06-21 18:00 G	8905187.00	8905187.25	8905187.51	0.0089	0.0011
Earth	19669-06-21 20:38 G	8905187.10	8905187.36	8905187.62	0.0089	0.0007 *
Earth	19670-06-24 09:36 G	8905554.65	8905554.90	8905555.17	0.0089	0.0009
Moon	19670-06-24 11:02 G	8905554.69	8905554.96	8905555.23	0.0089	0.0004 *
Moon	19671-06-26 22:19 G	8905922.19	8905922.43	8905922.69	0.0089	0.0014
Earth	19671-06-26 23:02 G	8905922.20	8905922.46	8905922.72	0.0089	0.0009 *
Moon	19672-06-28 11:02 G	8906289.70	8906289.96	8906290.23	0.0090	0.0007
Earth	19672-06-28 12:14 G	8906289.75	8906290.01	8906290.27	0.0090	0.0011 *
Earth	19673-07-01 01:26 G	8906657.31	8906657.56	8906657.82	0.0090	0.0012
Moon	19673-07-01 03:36 G	8906657.41	8906657.65	8906657.91	0.0090	0.0016 *
Moon	19674-07-03 12:14 G	8907024.75	8907025.01	8907025.28	0.0090	0.0008
Earth	19674-07-03 15:07 G	8907024.87	8907025.13	8907025.38	0.0090	0.0013 *
Earth	19675-07-06 04:19 G	8907392.42	8907392.68	8907392.93	0.0090	0.0014
Moon	19675-07-06 07:40 G	8907392.58	8907392.82	8907393.08	0.0090	0.0019 *
Moon	19676-07-07 14:09 G	8907759.83	8907760.09	8907760.35	0.0090	0.0011
Earth	19676-07-07 17:31 G	8907759.98	8907760.23	8907760.49	0.0090	0.0015 *
Earth	19677-07-10 06:28 G	8908127.53	8908127.77	8908128.04	0.0090	0.0017
Moon	19677-07-10 10:19 G	8908127.68	8908127.93	8908128.18	0.0090	0.0021 *
Moon	19678-07-12 17:16 G	8908494.97	8908495.22	8908495.48	0.0090	0.0013
Earth	19678-07-12 19:55 G	8908495.08	8908495.33	8908495.59	0.0090	0.0018 *
Earth	19679-07-15 08:52 G	8908862.63	8908862.87	8908863.14	0.0090	0.0019
Moon	19679-07-15 10:33 G	8908862.69	8908862.94	8908863.21	0.0090	0.0023 *
Moon	19680-07-16 21:07 G	8909230.14	8909230.38	8909230.63	0.0090	0.0015

Earth	19680-07-16 21:50 G	8909230.17	8909230.41	8909230.68	0.0090	0.0020 *
Moon	19681-07-19 10:19 G	8909597.68	8909597.93	8909598.19	0.0090	0.0025
Earth	19681-07-19 10:48 G	8909597.72	8909597.95	8909598.22	0.0090	0.0021 *
Earth	19682-07-21 23:45 G	8909965.26	8909965.49	8909965.76	0.0090	0.0022
Moon	19682-07-22 01:55 G	8909965.34	8909965.58	8909965.83	0.0090	0.0017 *
Moon	19683-07-24 10:19 G	8910332.69	8910332.93	8910333.19	0.0090	0.0027
Earth	19683-07-24 12:57 G	8910332.79	8910333.04	8910333.30	0.0090	0.0022 *
Earth	19684-07-26 01:55 G	8910700.33	8910700.58	8910700.83	0.0090	0.0023
Moon	19684-07-26 05:02 G	8910700.48	8910700.71	8910700.98	0.0090	0.0019 *
Moon	19685-07-28 11:16 G	8911067.74	8911067.97	8911068.23	0.0090	0.0029
Earth	19685-07-28 14:52 G	8911067.88	8911068.12	8911068.38	0.0090	0.0024 *
Earth	19686-07-31 03:36 G	8911435.42	8911435.65	8911435.91	0.0090	0.0025
Moon	19686-07-31 07:12 G	8911435.56	8911435.80	8911436.07	0.0090	0.0021 *
Moon	19687-08-02 14:09 G	8911802.85	8911803.09	8911803.33	0.0090	0.0030
Earth	19687-08-02 16:33 G	8911802.96	8911803.19	8911803.46	0.0090	0.0026 *
Earth	19688-08-04 05:45 G	8912170.50	8912170.74	8912170.99	0.0089	0.0026
Moon	19688-08-04 07:40 G	8912170.57	8912170.82	8912171.08	0.0089	0.0022 *
Moon	19689-08-06 17:16 G	8912538.00	8912538.22	8912538.47	0.0089	0.0031
Earth	19689-08-06 18:28 G	8912538.04	8912538.27	8912538.53	0.0089	0.0027 *
Moon	19690-08-09 06:57 G	8912905.54	8912905.79	8912906.06	0.0089	0.0023
Earth	19690-08-09 07:12 G	8912905.57	8912905.80	8912906.06	0.0089	0.0028 *
Earth	19691-08-11 19:55 G	8913273.09	8913273.33	8913273.58	0.0089	0.0028
Moon	19691-08-11 21:21 G	8913273.17	8913273.39	8913273.63	0.0089	0.0032 *
Moon	19692-08-13 06:14 G	8913640.52	8913640.76	8913641.03	0.0089	0.0024
Earth	19692-08-13 08:24 G	8913640.62	8913640.85	8913641.11	0.0089	0.0029 *
Earth	19693-08-15 21:07 G	8914008.14	8914008.38	8914008.63	0.0089	0.0029
Moon	19693-08-16 00:14 G	8914008.29	8914008.51	8914008.76	0.0089	0.0034 *
Moon	19694-08-18 06:00 G	8914375.52	8914375.75	8914376.01	0.0089	0.0025
Earth	19694-08-18 09:21 G	8914375.67	8914375.89	8914376.15	0.0089	0.0030 *
Earth	19695-08-20 21:50 G	8914743.18	8914743.41	8914743.67	0.0089	0.0030



Moon	19695-08-21 01:26 G	8914743.34	8914743.56	8914743.82	0.0089	0.0034 *
Moon	19696-08-22 07:26 G	8915110.58	8915110.81	8915111.06	0.0089	0.0026
Earth	19696-08-22 10:33 G	8915110.70	8915110.94	8915111.18	0.0089	0.0030 *
Earth	19697-08-24 22:33 G	8915478.21	8915478.44	8915478.70	0.0089	0.0031
Moon	19697-08-25 00:57 G	8915478.30	8915478.54	8915478.80	0.0089	0.0033 *
Moon	19698-08-27 09:36 G	8915845.68	8915845.90	8915846.15	0.0089	0.0027
Earth	19698-08-27 11:02 G	8915845.73	8915845.96	8915846.22	0.0089	0.0031 *
Moon	19699-08-29 22:48 G	8916213.22	8916213.45	8916213.72	0.0089	0.0035
Earth	19699-08-29 23:16 G	8916213.24	8916213.47	8916213.73	0.0089	0.0031 *
Earth	19700-09-01 12:00 G	8916580.76	8916581.00	8916581.24	0.0089	0.0031
Moon	19700-09-01 12:57 G	8916580.81	8916581.04	8916581.29	0.0089	0.0028 *
Moon	19701-09-03 21:50 G	8916948.18	8916948.41	8916948.67	0.0089	0.0034
Earth	19701-09-04 00:14 G	8916948.27	8916948.51	8916948.76	0.0089	0.0031 *
Earth	19702-09-06 12:00 G	8917315.78	8917316.00	8917316.26	0.0089	0.0031
Moon	19702-09-06 15:21 G	8917315.91	8917316.14	8917316.40	0.0089	0.0028 *
Moon	19703-09-08 20:52 G	8917683.14	8917683.37	8917683.62	0.0089	0.0034
Earth	19703-09-09 00:14 G	8917683.28	8917683.51	8917683.77	0.0089	0.0031 *
Earth	19704-09-10 12:00 G	8918050.78	8918051.00	8918051.26	0.0089	0.0032
Moon	19704-09-10 15:50 G	8918050.93	8918051.16	8918051.42	0.0089	0.0028 *
Mars	19705-04-30 17:16 G	8918283.04	8918283.22	8918283.43	0.0089	0.0067
Moon	19705-09-12 21:07 G	8918418.17	8918418.38	8918418.63	0.0089	0.0035
Earth	19705-09-13 00:28 G	8918418.28	8918418.52	8918418.76	0.0089	0.0030 *
Earth	19706-09-15 12:14 G	8918785.77	8918786.01	8918786.25	0.0089	0.0030
Moon	19706-09-15 14:24 G	8918785.86	8918786.10	8918786.36	0.0089	0.0028 *
Mars	19707-03-25 19:55 G	8918977.03	8918977.33	8918977.62	0.0089	0.0010
Moon	19707-09-17 22:04 G	8919153.21	8919153.42	8919153.67	0.0089	0.0033
Earth	19707-09-17 23:45 G	8919153.26	8919153.49	8919153.74	0.0089	0.0030 *
Moon	19708-09-19 11:02 G	8919520.72	8919520.96	8919521.23	0.0089	0.0027
Earth	19708-09-19 11:31 G	8919520.75	8919520.98	8919521.23	0.0089	0.0030 *
Mars	19709-02-16 22:48 G	8919671.45	8919671.45	8919671.48	0.0089	0.0089

Earth	19709-09-21 23:02 G	8919888.24	8919888.46	8919888.72	0.0089	0.0030
Moon	19709-09-22 00:14 G	8919888.29	8919888.51	8919888.76	0.0089	0.0032 *
Moon	19710-09-24 08:38 G	8920255.62	8920255.86	8920256.12	0.0089	0.0027
Earth	19710-09-24 11:02 G	8920255.72	8920255.96	8920256.20	0.0089	0.0029 *
Earth	19711-09-26 22:19 G	8920623.20	8920623.43	8920623.69	0.0089	0.0029
Moon	19711-09-27 01:40 G	8920623.35	8920623.57	8920623.82	0.0089	0.0032 *
Moon	19712-09-28 06:57 G	8920990.55	8920990.79	8920991.04	0.0089	0.0026
Earth	19712-09-28 10:04 G	8920990.69	8920990.92	8920991.18	0.0089	0.0029 *
Earth	19713-09-30 21:36 G	8921358.17	8921358.40	8921358.66	0.0089	0.0028
Moon	19713-10-01 01:12 G	8921358.33	8921358.55	8921358.81	0.0089	0.0030 *
Moon	19714-10-03 06:28 G	8921725.53	8921725.77	8921726.02	0.0089	0.0025
Earth	19714-10-03 09:07 G	8921725.65	8921725.88	8921726.14	0.0089	0.0028 *
Earth	19715-10-05 20:24 G	8922093.12	8922093.35	8922093.61	0.0089	0.0027
Moon	19715-10-05 23:02 G	8922093.21	8922093.46	8922093.71	0.0089	0.0028 *
Moon	19716-10-07 06:28 G	8922460.54	8922460.77	8922461.02	0.0089	0.0025
Earth	19716-10-07 07:55 G	8922460.59	8922460.83	8922461.08	0.0089	0.0026 *
Moon	19717-10-09 18:28 G	8922828.04	8922828.27	8922828.54	0.0089	0.0028
Earth	19717-10-09 18:57 G	8922828.06	8922828.29	8922828.55	0.0089	0.0026 *
Earth	19718-10-12 06:00 G	8923195.52	8923195.75	8923196.01	0.0089	0.0025
Moon	19718-10-12 07:12 G	8923195.57	8923195.80	8923196.05	0.0089	0.0024 *
Moon	19719-10-14 14:38 G	8923562.87	8923563.11	8923563.38	0.0089	0.0026
Earth	19719-10-14 17:16 G	8923562.98	8923563.22	8923563.47	0.0089	0.0024 *
Earth	19720-10-16 04:04 G	8923930.44	8923930.67	8923930.93	0.0089	0.0024
Moon	19720-10-16 07:26 G	8923930.58	8923930.81	8923931.07	0.0089	0.0022 *
Moon	19721-10-18 11:45 G	8924297.75	8924297.99	8924298.25	0.0089	0.0024
Earth	19721-10-18 15:07 G	8924297.89	8924298.13	8924298.39	0.0089	0.0023 *
Earth	19722-10-21 01:55 G	8924665.34	8924665.58	8924665.84	0.0089	0.0022
Moon	19722-10-21 05:45 G	8924665.49	8924665.74	8924666.00	0.0089	0.0021 *
Moon	19723-10-23 10:04 G	8925032.69	8925032.92	8925033.18	0.0089	0.0023
Earth	19723-10-23 12:57 G	8925032.80	8925033.04	8925033.30	0.0089	0.0021 *

Earth	19724-10-25 00:00 G	8925400.25	8925400.50	8925400.75	0.0088	0.0020
Moon	19724-10-25 01:55 G	8925400.33	8925400.58	8925400.85	0.0088	0.0020 *
Moon	19725-10-27 09:50 G	8925767.67	8925767.91	8925768.15	0.0088	0.0020
Earth	19725-10-27 10:33 G	8925767.71	8925767.94	8925768.21	0.0088	0.0020 *
Moon	19726-10-29 20:52 G	8926135.11	8926135.37	8926135.63	0.0088	0.0017
Earth	19726-10-29 21:21 G	8926135.15	8926135.39	8926135.65	0.0088	0.0019 *
Earth	19727-11-01 08:09 G	8926502.60	8926502.84	8926503.10	0.0088	0.0018
Moon	19727-11-01 09:50 G	8926502.67	8926502.91	8926503.15	0.0088	0.0018 *
Moon	19728-11-02 16:19 G	8926869.93	8926870.18	8926870.45	0.0088	0.0016
Earth	19728-11-02 18:57 G	8926870.05	8926870.29	8926870.55	0.0088	0.0016 *
Earth	19729-11-05 05:31 G	8927237.48	8927237.73	8927237.99	0.0088	0.0015
Moon	19729-11-05 08:52 G	8927237.63	8927237.87	8927238.13	0.0088	0.0017 *
Moon	19730-11-07 12:43 G	8927604.78	8927605.03	8927605.29	0.0088	0.0014
Earth	19730-11-07 16:04 G	8927604.92	8927605.17	8927605.43	0.0088	0.0014 *
Venus	19731-07-21 11:02 G	8927860.86	8927860.96	8927861.11	0.0088	0.0073
Earth	19731-11-10 02:24 G	8927972.35	8927972.60	8927972.86	0.0088	0.0013
Moon	19731-11-10 06:00 G	8927972.50	8927972.75	8927973.01	0.0088	0.0013 *
Venus	19732-03-03 00:14 G	8928086.34	8928086.51	8928086.69	0.0088	0.0052
Venus	19732-10-14 12:43 G	8928311.84	8928312.03	8928312.25	0.0088	0.0033
Moon	19732-11-11 10:19 G	8928339.69	8928339.93	8928340.19	0.0088	0.0012
Earth	19732-11-11 12:43 G	8928339.79	8928340.03	8928340.30	0.0088	0.0013 *
Venus	19733-05-28 01:40 G	8928537.36	8928537.57	8928537.79	0.0088	0.0013
Earth	19733-11-13 23:16 G	8928707.22	8928707.47	8928707.73	0.0088	0.0011
Moon	19733-11-14 01:12 G	8928707.29	8928707.55	8928707.82	0.0088	0.0011 *
Venus	19734-01-08 14:24 G	8928762.89	8928763.10	8928763.32	0.0088	0.0007
Venus	19734-08-22 03:07 G	8928988.43	8928988.63	8928988.85	0.0088	0.0026
Moon	19734-11-16 08:52 G	8929074.63	8929074.87	8929075.12	0.0088	0.0010
Earth	19734-11-16 09:36 G	8929074.65	8929074.90	8929075.16	0.0088	0.0010 *
Venus	19735-04-04 15:50 G	8929213.98	8929214.16	8929214.36	0.0088	0.0046
Venus	19735-11-16 04:19 G	8929439.55	8929439.68	8929439.85	0.0088	0.0065

Moon	19735-11-18 18:57 G	8929442.03	8929442.29	8929442.56	0.0088	0.0009
Earth	19735-11-18 19:55 G	8929442.08	8929442.33	8929442.59	0.0088	0.0009 *
Venus	19736-06-28 17:16 G	8929665.17	8929665.22	8929665.29	0.0088	0.0084
Earth	19736-11-20 06:28 G	8929809.51	8929809.77	8929810.03	0.0088	0.0008
Moon	19736-11-20 08:09 G	8929809.59	8929809.84	8929810.09	0.0088	0.0008 *
Moon	19737-11-22 13:55 G	8930176.82	8930177.08	8930177.34	0.0088	0.0007
Earth	19737-11-22 16:48 G	8930176.95	8930177.20	8930177.46	0.0088	0.0006 *
Earth	19738-11-25 03:07 G	8930544.38	8930544.63	8930544.89	0.0088	0.0005
Moon	19738-11-25 06:43 G	8930544.53	8930544.78	8930545.03	0.0088	0.0005 *
Mercury	19739-02-22 13:55 G	8930634.07	8930634.08	8930634.11	0.0088	0.0087
Mercury	19739-05-21 15:50 G	8930722.11	8930722.16	8930722.23	0.0088	0.0080
Mercury	19739-08-17 17:31 G	8930810.16	8930810.23	8930810.33	0.0088	0.0073
Mercury	19739-11-13 19:40 G	8930898.22	8930898.32	8930898.42	0.0088	0.0065
Moon	19739-11-27 10:04 G	8930911.67	8930911.92	8930912.18	0.0088	0.0004
Earth	19739-11-27 13:40 G	8930911.81	8930912.07	8930912.33	0.0088	0.0004 *
Mercury	19740-02-09 21:21 G	8930986.29	8930986.39	8930986.51	0.0088	0.0058
Mercury	19740-05-07 23:16 G	8931074.36	8931074.47	8931074.60	0.0088	0.0051
Mercury	19740-08-04 01:12 G	8931162.43	8931162.55	8931162.69	0.0088	0.0043
Mercury	19740-10-31 03:07 G	8931250.50	8931250.63	8931250.78	0.0088	0.0036
Earth	19740-11-28 23:45 G	8931279.24	8931279.49	8931279.75	0.0088	0.0003
Moon	19740-11-29 03:21 G	8931279.38	8931279.64	8931279.90	0.0088	0.0003 *
Mercury	19741-01-27 05:16 G	8931338.57	8931338.72	8931338.86	0.0088	0.0028
Mercury	19741-04-25 06:57 G	8931426.65	8931426.79	8931426.95	0.0088	0.0021
Mercury	19741-07-22 09:07 G	8931514.73	8931514.88	8931515.03	0.0088	0.0013
Mercury	19741-10-18 11:02 G	8931602.81	8931602.96	8931603.11	0.0088	0.0006
Moon	19741-12-01 07:55 G	8931646.59	8931646.83	8931647.09	0.0088	0.0003
Earth	19741-12-01 10:19 G	8931646.67	8931646.93	8931647.18	0.0088	0.0002 *
Mercury	19742-01-14 12:57 G	8931690.89	8931691.04	8931691.19	0.0088	0.0002
Mercury	19742-04-12 14:52 G	8931778.97	8931779.12	8931779.28	0.0088	0.0010
Mercury	19742-07-09 16:48 G	8931867.05	8931867.20	8931867.36	0.0088	0.0017

Mercury	19742-10-05 18:43 G	8931955.14	8931955.28	8931955.43	0.0088	0.0025
Earth	19742-12-03 20:09 G	8932014.09	8932014.34	8932014.60	0.0088	0.0002
Moon	19742-12-03 21:50 G	8932014.14	8932014.41	8932014.68	0.0088	0.0001 *
Mercury	19743-01-01 20:52 G	8932043.23	8932043.37	8932043.51	0.0088	0.0032
Mercury	19743-03-30 22:48 G	8932131.32	8932131.45	8932131.59	0.0088	0.0040
Mercury	19743-06-27 00:43 G	8932219.41	8932219.53	8932219.67	0.0088	0.0048
Mercury	19743-09-23 02:38 G	8932307.50	8932307.61	8932307.74	0.0088	0.0056
Moon	19743-12-06 06:14 G	8932381.51	8932381.76	8932382.01	0.0088	0.0001
Earth	19743-12-06 06:28 G	8932381.51	8932381.77	8932382.03	0.0088	0.0001 *
Mercury	19743-12-20 04:48 G	8932395.60	8932395.70	8932395.81	0.0088	0.0063
Mercury	19744-03-17 06:43 G	8932483.70	8932483.78	8932483.88	0.0088	0.0071
Mercury	19744-06-13 08:38 G	8932571.81	8932571.86	8932571.94	0.0088	0.0079
Mercury	19744-09-09 10:33 G	8932659.94	8932659.94	8932659.98	0.0088	0.0087
Moon	19744-12-07 15:07 G	8932748.87	8932749.13	8932749.40	0.0088	0.0002
Earth	19744-12-07 16:48 G	8932748.94	8932749.20	8932749.45	0.0088	0.0002 *
Earth	19745-12-10 02:38 G	8933116.35	8933116.61	8933116.87	0.0088	0.0003
Moon	19745-12-10 04:33 G	8933116.45	8933116.69	8933116.95	0.0088	0.0004 *
Moon	19746-12-12 09:36 G	8933483.64	8933483.90	8933484.16	0.0088	0.0003
Earth	19746-12-12 12:43 G	8933483.78	8933484.03	8933484.29	0.0088	0.0004 *
Earth	19747-12-14 22:48 G	8933851.20	8933851.45	8933851.71	0.0088	0.0005
Moon	19747-12-15 02:24 G	8933851.35	8933851.60	8933851.86	0.0088	0.0005 *
Moon	19748-12-16 05:31 G	8934218.48	8934218.73	8934218.99	0.0088	0.0006
Earth	19748-12-16 08:52 G	8934218.62	8934218.87	8934219.13	0.0088	0.0007 *
Earth	19749-12-18 18:57 G	8934586.04	8934586.29	8934586.55	0.0088	0.0008
Moon	19749-12-18 22:19 G	8934586.17	8934586.43	8934586.69	0.0088	0.0009 *
Moon	19750-12-21 03:36 G	8934953.40	8934953.65	8934953.90	0.0088	0.0008
Earth	19750-12-21 05:16 G	8934953.47	8934953.72	8934953.98	0.0088	0.0009 *
Jupiter	19751-07-24 13:40 G	8935168.54	8935169.07	8935169.65	0.0088	0.0018
Earth	19751-12-23 15:21 G	8935320.89	8935321.14	8935321.40	0.0088	0.0010
Moon	19751-12-23 16:33 G	8935320.93	8935321.19	8935321.46	0.0088	0.0011 *

Earth	19752-12-25 01:40 G	8935688.32	8935688.57	8935688.83	0.0088	0.0011
Moon	19752-12-25 01:55 G	8935688.34	8935688.58	8935688.84	0.0088	0.0010 *
Moon	19753-12-27 09:50 G	8936055.65	8936055.91	8936056.17	0.0088	0.0012
Earth	19753-12-27 11:45 G	8936055.74	8936055.99	8936056.25	0.0088	0.0012 *
Earth	19754-12-29 21:50 G	8936423.16	8936423.41	8936423.67	0.0088	0.0013
Moon	19754-12-30 00:14 G	8936423.27	8936423.51	8936423.77	0.0088	0.0012 *
Moon	19756-01-01 04:33 G	8936790.44	8936790.69	8936790.95	0.0088	0.0015
Earth	19756-01-01 08:09 G	8936790.59	8936790.84	8936791.10	0.0088	0.0014 *
Earth	19757-01-02 18:00 G	8937158.00	8937158.25	8937158.51	0.0088	0.0015
Moon	19757-01-02 21:36 G	8937158.15	8937158.40	8937158.66	0.0088	0.0014 *
Moon	19758-01-05 00:57 G	8937525.29	8937525.54	8937525.79	0.0088	0.0017
Earth	19758-01-05 04:04 G	8937525.43	8937525.67	8937525.93	0.0088	0.0016 *
Earth	19759-01-07 14:09 G	8937892.84	8937893.09	8937893.35	0.0088	0.0017
Moon	19759-01-07 17:16 G	8937892.96	8937893.22	8937893.48	0.0088	0.0015 *
Moon	19760-01-09 22:48 G	8938260.22	8938260.45	8938260.71	0.0088	0.0019
Earth	19760-01-10 00:14 G	8938260.27	8938260.51	8938260.77	0.0088	0.0018 *
Earth	19761-01-11 10:19 G	8938627.69	8938627.93	8938628.19	0.0088	0.0019
Moon	19761-01-11 11:02 G	8938627.71	8938627.96	8938628.23	0.0088	0.0017 *
Earth	19762-01-13 20:24 G	8938995.11	8938995.35	8938995.61	0.0088	0.0020
Moon	19762-01-13 21:21 G	8938995.15	8938995.39	8938995.64	0.0088	0.0021 *
Moon	19763-01-16 04:19 G	8939362.44	8939362.68	8939362.95	0.0088	0.0020
Earth	19763-01-16 06:43 G	8939362.54	8939362.78	8939363.05	0.0088	0.0021 *
Earth	19764-01-18 17:16 G	8939729.97	8939730.22	8939730.47	0.0088	0.0021
Moon	19764-01-18 19:55 G	8939730.09	8939730.33	8939730.58	0.0088	0.0023 *
Moon	19765-01-19 23:45 G	8940097.25	8940097.49	8940097.75	0.0088	0.0021
Earth	19765-01-20 03:36 G	8940097.41	8940097.65	8940097.90	0.0088	0.0022 *
Earth	19766-01-22 13:40 G	8940464.84	8940465.07	8940465.33	0.0088	0.0023
Moon	19766-01-22 17:16 G	8940464.98	8940465.22	8940465.48	0.0088	0.0024 *
Moon	19767-01-24 21:07 G	8940832.14	8940832.38	8940832.63	0.0088	0.0022
Earth	19767-01-25 00:14 G	8940832.27	8940832.51	8940832.77	0.0088	0.0024 *

Earth	19768-01-27 10:33 G	8941199.70	8941199.94	8941200.20	0.0088	0.0024
Moon	19768-01-27 13:12 G	8941199.80	8941200.05	8941200.31	0.0088	0.0026 *
Moon	19769-01-28 19:55 G	8941567.10	8941567.33	8941567.58	0.0088	0.0024
Earth	19769-01-28 20:52 G	8941567.14	8941567.37	8941567.63	0.0088	0.0025 *
Earth	19770-01-31 07:26 G	8941934.57	8941934.81	8941935.06	0.0088	0.0025
Moon	19770-01-31 07:40 G	8941934.57	8941934.82	8941935.07	0.0088	0.0027 *
Earth	19771-02-02 17:45 G	8942302.00	8942302.24	8942302.49	0.0088	0.0026
Moon	19771-02-02 18:57 G	8942302.06	8942302.29	8942302.54	0.0088	0.0024 *
Moon	19772-02-05 01:26 G	8942669.32	8942669.56	8942669.82	0.0088	0.0028
Earth	19772-02-05 04:04 G	8942669.44	8942669.67	8942669.93	0.0088	0.0027 *
Earth	19773-02-06 14:38 G	8943036.87	8943037.11	8943037.36	0.0088	0.0027
Moon	19773-02-06 17:31 G	8943037.00	8943037.23	8943037.48	0.0088	0.0025 *
Moon	19774-02-08 21:21 G	8943404.16	8943404.39	8943404.65	0.0088	0.0030
Earth	19774-02-09 01:12 G	8943404.32	8943404.55	8943404.81	0.0088	0.0028 *
Earth	19775-02-11 12:00 G	8943771.76	8943772.00	8943772.25	0.0088	0.0028
Moon	19775-02-11 15:21 G	8943771.90	8943772.14	8943772.40	0.0088	0.0026 *
Moon	19776-02-13 19:40 G	8944139.09	8944139.32	8944139.57	0.0088	0.0031
Earth	19776-02-13 22:48 G	8944139.21	8944139.45	8944139.70	0.0088	0.0028 *
Earth	19777-02-15 09:21 G	8944506.66	8944506.89	8944507.15	0.0088	0.0029
Moon	19777-02-15 11:45 G	8944506.75	8944506.99	8944507.25	0.0088	0.0026 *
Moon	19778-02-17 19:40 G	8944874.10	8944874.32	8944874.57	0.0088	0.0031
Earth	19778-02-17 20:24 G	8944874.12	8944874.35	8944874.60	0.0088	0.0029 *
Moon	19779-02-20 07:12 G	8945241.56	8945241.80	8945242.07	0.0088	0.0027
Earth	19779-02-20 07:26 G	8945241.57	8945241.81	8945242.06	0.0088	0.0029 *
Earth	19780-02-22 18:28 G	8945609.03	8945609.27	8945609.52	0.0088	0.0029
Moon	19780-02-22 19:55 G	8945609.10	8945609.33	8945609.57	0.0088	0.0032 *
Moon	19781-02-24 02:09 G	8945976.35	8945976.59	8945976.86	0.0088	0.0028
Earth	19781-02-24 05:02 G	8945976.48	8945976.71	8945976.97	0.0088	0.0030 *
Earth	19782-02-26 16:04 G	8946343.94	8946344.17	8946344.43	0.0088	0.0030
Moon	19782-02-26 18:57 G	8946344.08	8946344.29	8946344.55	0.0088	0.0033 *

Moon	19783-02-28 23:31 G	8946711.24	8946711.48	8946711.74	0.0088	0.0027
Earth	19783-03-01 03:07 G	8946711.40	8946711.63	8946711.89	0.0088	0.0030 *
Earth	19784-03-02 13:55 G	8947078.86	8947079.08	8947079.34	0.0088	0.0030
Moon	19784-03-02 17:31 G	8947079.00	8947079.23	8947079.48	0.0088	0.0032 *
Moon	19785-03-04 22:48 G	8947446.20	8947446.45	8947446.69	0.0088	0.0027
Earth	19785-03-05 01:12 G	8947446.32	8947446.55	8947446.81	0.0088	0.0030 *
Earth	19786-03-07 12:14 G	8947813.79	8947814.01	8947814.27	0.0088	0.0030
Moon	19786-03-07 14:24 G	8947813.87	8947814.10	8947814.36	0.0088	0.0033 *
Moon	19787-03-09 23:16 G	8948181.25	8948181.47	8948181.72	0.0088	0.0027
Earth	19787-03-10 00:00 G	8948181.26	8948181.50	8948181.75	0.0088	0.0030 *
Moon	19788-03-11 11:02 G	8948548.71	8948548.96	8948549.21	0.0088	0.0032
Earth	19788-03-11 11:16 G	8948548.73	8948548.97	8948549.22	0.0088	0.0029 *
Mars	19789-02-20 00:00 G	8948894.24	8948894.50	8948894.81	0.0088	0.0045
Earth	19789-03-13 22:33 G	8948916.20	8948916.44	8948916.69	0.0088	0.0029
Moon	19789-03-14 00:14 G	8948916.28	8948916.51	8948916.76	0.0088	0.0026 *
Moon	19790-03-16 07:12 G	8949283.56	8949283.80	8949284.06	0.0088	0.0032
Earth	19790-03-16 10:04 G	8949283.69	8949283.92	8949284.18	0.0088	0.0029 *
Mars	19791-01-16 14:52 G	8949589.83	8949590.12	8949590.42	0.0088	0.0040
Earth	19791-03-18 21:36 G	8949651.17	8949651.40	8949651.66	0.0088	0.0029
Moon	19791-03-19 00:43 G	8949651.30	8949651.53	8949651.79	0.0088	0.0026 *
Moon	19792-03-20 05:16 G	8950018.50	8950018.72	8950018.98	0.0088	0.0033
Earth	19792-03-20 09:21 G	8950018.65	8950018.89	8950019.14	0.0088	0.0028 *
Earth	19793-03-22 20:38 G	8950386.13	8950386.36	8950386.62	0.0088	0.0029
Moon	19793-03-23 00:14 G	8950386.26	8950386.51	8950386.77	0.0088	0.0025 *
Moon	19794-03-25 05:45 G	8950753.51	8950753.74	8950753.98	0.0088	0.0031
Earth	19794-03-25 08:38 G	8950753.62	8950753.86	8950754.12	0.0088	0.0028 *
Earth	19795-03-27 20:09 G	8951121.11	8951121.34	8951121.60	0.0088	0.0027
Moon	19795-03-27 22:04 G	8951121.18	8951121.42	8951121.69	0.0088	0.0023 *
Moon	19796-03-29 07:26 G	8951488.59	8951488.81	8951489.06	0.0088	0.0031
Earth	19796-03-29 07:55 G	8951488.60	8951488.83	8951489.09	0.0088	0.0027 *



Moon	19797-03-31 19:12 G	8951856.06	8951856.30	8951856.58	0.0088	0.0023
Earth	19797-03-31 19:26 G	8951856.08	8951856.31	8951856.58	0.0088	0.0027 *
Earth	19798-04-03 07:26 G	8952223.58	8952223.81	8952224.07	0.0088	0.0026
Moon	19798-04-03 09:21 G	8952223.67	8952223.89	8952224.14	0.0088	0.0030 *
Moon	19799-04-05 16:33 G	8952590.95	8952591.19	8952591.46	0.0088	0.0022
Earth	19799-04-05 19:40 G	8952591.08	8952591.32	8952591.57	0.0088	0.0025 *
Earth	19800-04-08 07:12 G	8952958.57	8952958.80	8952959.07	0.0089	0.0025
Moon	19800-04-08 10:33 G	8952958.71	8952958.94	8952959.19	0.0089	0.0029 *
Moon	19801-04-10 15:50 G	8953325.92	8953326.16	8953326.42	0.0089	0.0019
Earth	19801-04-10 19:40 G	8953326.08	8953326.32	8953326.58	0.0089	0.0024 *
Earth	19802-04-13 07:55 G	8953693.58	8953693.83	8953694.09	0.0089	0.0023
Moon	19802-04-13 11:16 G	8953693.72	8953693.97	8953694.22	0.0089	0.0027 *
Moon	19803-04-15 17:16 G	8954060.98	8954061.22	8954061.47	0.0089	0.0018
Earth	19803-04-15 20:24 G	8954061.10	8954061.35	8954061.60	0.0089	0.0022 *
Earth	19804-04-17 08:38 G	8954428.61	8954428.86	8954429.11	0.0089	0.0021
Moon	19804-04-17 10:19 G	8954428.69	8954428.93	8954429.20	0.0089	0.0026 *
Moon	19805-04-19 20:24 G	8954796.11	8954796.35	8954796.60	0.0089	0.0017
Earth	19805-04-19 20:38 G	8954796.12	8954796.36	8954796.63	0.0089	0.0021 *
Moon	19806-04-22 08:52 G	8955163.63	8955163.87	8955164.15	0.0089	0.0024
Earth	19806-04-22 09:07 G	8955163.64	8955163.88	8955164.15	0.0089	0.0020 *
Earth	19807-04-24 21:36 G	8955531.16	8955531.40	8955531.66	0.0089	0.0019
Moon	19807-04-24 23:31 G	8955531.24	8955531.48	8955531.73	0.0089	0.0014 *
Moon	19808-04-26 07:12 G	8955898.55	8955898.80	8955899.07	0.0089	0.0022
Earth	19808-04-26 09:50 G	8955898.67	8955898.91	8955899.18	0.0089	0.0018 *
Earth	19809-04-28 22:19 G	8956266.19	8956266.43	8956266.70	0.0089	0.0017
Moon	19809-04-29 01:40 G	8956266.32	8956266.57	8956266.83	0.0089	0.0012 *
Moon	19810-05-01 07:12 G	8956633.56	8956633.80	8956634.07	0.0089	0.0021
Earth	19810-05-01 11:02 G	8956633.72	8956633.96	8956634.23	0.0089	0.0016 *
Earth	19811-05-03 23:31 G	8957001.23	8957001.48	8957001.74	0.0089	0.0015
Moon	19811-05-04 03:07 G	8957001.37	8957001.63	8957001.89	0.0089	0.0010 *

Moon	19812-05-05 09:21 G	8957368.64	8957368.89	8957369.14	0.0089	0.0018
Earth	19812-05-05 12:14 G	8957368.76	8957369.01	8957369.28	0.0089	0.0014 *
Earth	19813-05-08 00:57 G	8957736.29	8957736.54	8957736.81	0.0089	0.0013
Moon	19813-05-08 03:07 G	8957736.37	8957736.63	8957736.90	0.0089	0.0008 *
Moon	19814-05-10 12:57 G	8958103.81	8958104.04	8958104.30	0.0089	0.0016
Earth	19814-05-10 14:09 G	8958103.83	8958104.09	8958104.34	0.0089	0.0011 *
Venus	19814-11-30 20:38 G	8958308.25	8958308.36	8958308.52	0.0089	0.0071
Moon	19815-05-13 03:07 G	8958471.36	8958471.63	8958471.90	0.0089	0.0006
Earth	19815-05-13 03:07 G	8958471.37	8958471.63	8958471.88	0.0089	0.0010 *
Venus	19815-07-14 10:19 G	8958533.75	8958533.93	8958534.11	0.0089	0.0050
Venus	19816-02-24 23:45 G	8958759.28	8958759.49	8958759.70	0.0089	0.0030
Earth	19816-05-14 15:50 G	8958838.90	8958839.16	8958839.42	0.0089	0.0009
Moon	19816-05-14 17:16 G	8958838.98	8958839.22	8958839.48	0.0089	0.0014 *
Venus	19816-10-07 12:57 G	8958984.82	8958985.04	8958985.26	0.0089	0.0010
Moon	19817-05-17 02:24 G	8959206.34	8959206.60	8959206.87	0.0089	0.0004
Earth	19817-05-17 05:02 G	8959206.45	8959206.71	8959206.97	0.0089	0.0008 *
Venus	19817-05-21 02:09 G	8959210.37	8959210.59	8959210.81	0.0089	0.0010
Venus	19818-01-01 15:21 G	8959435.93	8959436.14	8959436.35	0.0089	0.0030
Earth	19818-05-19 18:00 G	8959573.99	8959574.25	8959574.51	0.0089	0.0007
Moon	19818-05-19 20:52 G	8959574.12	8959574.37	8959574.63	0.0089	0.0012 *
Venus	19818-08-15 04:04 G	8959661.51	8959661.67	8959661.87	0.0089	0.0051
Venus	19819-03-28 17:31 G	8959887.12	8959887.23	8959887.38	0.0089	0.0071
Moon	19819-05-22 03:07 G	8959941.37	8959941.63	8959941.90	0.0089	0.0002
Earth	19819-05-22 06:57 G	8959941.53	8959941.79	8959942.05	0.0089	0.0006 *
Earth	19820-05-23 19:55 G	8960309.07	8960309.33	8960309.59	0.0089	0.0004
Moon	19820-05-23 23:02 G	8960309.21	8960309.46	8960309.73	0.0089	0.0009 *
Moon	19821-05-26 05:31 G	8960676.48	8960676.73	8960676.99	0.0089	0.0002
Earth	19821-05-26 08:52 G	8960676.61	8960676.87	8960677.13	0.0089	0.0004 *
Earth	19822-05-28 21:50 G	8961044.15	8961044.41	8961044.67	0.0089	0.0002
Moon	19822-05-29 00:14 G	8961044.24	8961044.51	8961044.77	0.0089	0.0007 *

Mercury	19822-08-19 07:12 G	8961126.78	8961126.80	8961126.85	0.0089	0.0087
Mercury	19822-11-15 09:50 G	8961214.84	8961214.91	8961215.00	0.0089	0.0078
Mercury	19823-02-11 12:28 G	8961302.92	8961303.02	8961303.12	0.0089	0.0070
Mercury	19823-05-10 14:38 G	8961391.00	8961391.11	8961391.24	0.0089	0.0061
Moon	19823-05-31 09:36 G	8961411.66	8961411.90	8961412.16	0.0089	0.0004
Earth	19823-05-31 11:02 G	8961411.70	8961411.96	8961412.22	0.0089	0.0001 *
Mercury	19823-08-06 17:16 G	8961479.09	8961479.22	8961479.35	0.0089	0.0053
Mercury	19823-11-02 19:26 G	8961567.18	8961567.31	8961567.46	0.0089	0.0044
Mercury	19824-01-29 22:04 G	8961655.27	8961655.42	8961655.57	0.0089	0.0036
Mercury	19824-04-27 00:14 G	8961743.37	8961743.51	8961743.68	0.0089	0.0028
Earth	19824-06-02 00:00 G	8961779.24	8961779.50	8961779.76	0.0089	0.0001
Moon	19824-06-02 00:14 G	8961779.24	8961779.51	8961779.78	0.0089	0.0004 *
Mercury	19824-07-24 02:52 G	8961831.46	8961831.62	8961831.78	0.0089	0.0019
Mercury	19824-10-20 05:16 G	8961919.56	8961919.72	8961919.88	0.0089	0.0010
Mercury	19825-01-16 07:26 G	8962007.65	8962007.81	8962007.98	0.0089	0.0003
Mercury	19825-04-14 09:50 G	8962095.75	8962095.91	8962096.07	0.0089	0.0007
Earth	19825-06-04 12:57 G	8962146.78	8962147.04	8962147.30	0.0089	0.0002
Moon	19825-06-04 14:24 G	8962146.85	8962147.10	8962147.35	0.0089	0.0006 *
Mercury	19825-07-11 12:00 G	8962183.85	8962184.00	8962184.17	0.0089	0.0016
Mercury	19825-10-07 14:24 G	8962271.95	8962272.10	8962272.26	0.0089	0.0023
Mercury	19826-01-03 16:48 G	8962360.05	8962360.20	8962360.35	0.0089	0.0031
Mercury	19826-04-01 18:57 G	8962448.15	8962448.29	8962448.44	0.0089	0.0040
Moon	19826-06-07 00:14 G	8962514.24	8962514.51	8962514.77	0.0089	0.0001
Earth	19826-06-07 02:24 G	8962514.34	8962514.60	8962514.86	0.0089	0.0003 *
Mercury	19826-06-28 21:21 G	8962536.26	8962536.39	8962536.53	0.0089	0.0048
Mercury	19826-09-24 23:16 G	8962624.36	8962624.47	8962624.61	0.0089	0.0057
Mercury	19826-12-22 01:40 G	8962712.47	8962712.57	8962712.69	0.0089	0.0064
Mercury	19827-03-20 03:50 G	8962800.58	8962800.66	8962800.77	0.0089	0.0073
Earth	19827-06-09 15:21 G	8962881.88	8962882.14	8962882.40	0.0089	0.0004
Moon	19827-06-09 18:14 G	8962882.01	8962882.26	8962882.51	0.0089	0.0008 *

Mercury	19827-06-16 06:00 G	8962888.70	8962888.75	8962888.84	0.0089	0.0081
Mercury	19827-09-12 08:24 G	8962976.84	8962976.85	8962976.88	0.0089	0.0088
Moon	19828-06-11 01:12 G	8963249.29	8963249.55	8963249.81	0.0089	0.0001
Earth	19828-06-11 04:48 G	8963249.44	8963249.70	8963249.96	0.0089	0.0005 *
Earth	19829-06-13 18:00 G	8963617.00	8963617.25	8963617.51	0.0089	0.0007
Moon	19829-06-13 21:36 G	8963617.14	8963617.40	8963617.66	0.0089	0.0010 *
Moon	19830-06-16 03:50 G	8963984.41	8963984.66	8963984.92	0.0089	0.0005
Earth	19830-06-16 07:26 G	8963984.55	8963984.81	8963985.07	0.0089	0.0008 *
Earth	19831-06-18 20:38 G	8964352.10	8964352.36	8964352.62	0.0089	0.0009
Moon	19831-06-18 23:02 G	8964352.20	8964352.46	8964352.73	0.0089	0.0012 *
Moon	19832-06-20 08:09 G	8964719.59	8964719.84	8964720.09	0.0089	0.0007
Earth	19832-06-20 09:50 G	8964719.65	8964719.91	8964720.17	0.0089	0.0010 *
Earth	19833-06-22 23:02 G	8965087.20	8965087.46	8965087.72	0.0089	0.0011
Moon	19833-06-22 23:45 G	8965087.23	8965087.49	8965087.76	0.0089	0.0014 *
Earth	19834-06-25 12:00 G	8965454.75	8965455.00	8965455.27	0.0090	0.0013
Moon	19834-06-25 13:12 G	8965454.80	8965455.05	8965455.30	0.0090	0.0009 *
Moon	19835-06-27 23:31 G	8965822.22	8965822.48	8965822.75	0.0090	0.0016
Earth	19835-06-28 01:12 G	8965822.30	8965822.55	8965822.81	0.0090	0.0013 *
Earth	19836-06-29 14:09 G	8966189.85	8966190.09	8966190.36	0.0090	0.0015
Moon	19836-06-29 17:02 G	8966189.96	8966190.21	8966190.46	0.0090	0.0012 *
Moon	19837-07-02 00:00 G	8966557.25	8966557.50	8966557.77	0.0090	0.0019
Earth	19837-07-02 03:36 G	8966557.40	8966557.65	8966557.91	0.0090	0.0015 *
Earth	19838-07-04 16:33 G	8966924.95	8966925.19	8966925.46	0.0090	0.0017
Moon	19838-07-04 20:09 G	8966925.09	8966925.34	8966925.60	0.0090	0.0015 *
Moon	19839-07-07 02:24 G	8967292.36	8967292.60	8967292.86	0.0090	0.0019
Earth	19839-07-07 06:00 G	8967292.50	8967292.75	8967293.01	0.0090	0.0017 *
Earth	19840-07-08 19:12 G	8967660.05	8967660.30	8967660.56	0.0090	0.0018
Moon	19840-07-08 22:04 G	8967660.16	8967660.42	8967660.68	0.0090	0.0016 *
Moon	19841-07-11 06:28 G	8968027.53	8968027.77	8968028.02	0.0090	0.0021
Earth	19841-07-11 08:24 G	8968027.61	8968027.85	8968028.12	0.0090	0.0020 *

Earth	19842-07-13 21:50 G	8968395.17	8968395.41	8968395.67	0.0090	0.0020
Moon	19842-07-13 23:02 G	8968395.21	8968395.46	8968395.73	0.0090	0.0019 *
Earth	19843-07-16 11:02 G	8968762.71	8968762.96	8968763.22	0.0090	0.0021
Moon	19843-07-16 11:31 G	8968762.75	8968762.98	8968763.23	0.0090	0.0023 *
Moon	19844-07-17 23:02 G	8969130.20	8969130.46	8969130.72	0.0090	0.0021
Earth	19844-07-18 00:14 G	8969130.27	8969130.51	8969130.77	0.0090	0.0022 *
Earth	19845-07-20 13:26 G	8969497.81	8969498.06	8969498.31	0.0090	0.0023
Moon	19845-07-20 15:50 G	8969497.92	8969498.16	8969498.41	0.0090	0.0024 *
Moon	19846-07-22 23:02 G	8969865.21	8969865.46	8969865.72	0.0090	0.0022
Earth	19846-07-23 02:24 G	8969865.36	8969865.60	8969865.86	0.0090	0.0024 *
Earth	19847-07-25 15:07 G	8970232.90	8970233.13	8970233.40	0.0090	0.0025
Moon	19847-07-25 18:43 G	8970233.04	8970233.28	8970233.54	0.0090	0.0024 *
Moon	19848-07-27 00:28 G	8970600.29	8970600.52	8970600.78	0.0090	0.0025
Earth	19848-07-27 04:33 G	8970600.44	8970600.69	8970600.94	0.0090	0.0025 *
Earth	19849-07-29 17:16 G	8970967.98	8970968.22	8970968.48	0.0090	0.0026
Moon	19849-07-29 20:24 G	8970968.10	8970968.35	8970968.61	0.0090	0.0026 *
Moon	19850-08-01 03:50 G	8971335.43	8971335.66	8971335.91	0.0090	0.0027
Earth	19850-08-01 06:14 G	8971335.53	8971335.76	8971336.02	0.0090	0.0027 *
Earth	19851-08-03 19:12 G	8971703.06	8971703.30	8971703.56	0.0090	0.0027
Moon	19851-08-03 20:24 G	8971703.11	8971703.35	8971703.62	0.0090	0.0027 *
Earth	19852-08-05 08:09 G	8972070.61	8972070.84	8972071.10	0.0090	0.0027
Moon	19852-08-05 08:09 G	8972070.62	8972070.84	8972071.10	0.0090	0.0028 *
Moon	19853-08-07 20:38 G	8972438.11	8972438.36	8972438.62	0.0089	0.0027
Earth	19853-08-07 21:21 G	8972438.15	8972438.39	8972438.64	0.0089	0.0028 *
Earth	19854-08-10 09:50 G	8972805.69	8972805.91	8972806.18	0.0089	0.0029
Moon	19854-08-10 12:28 G	8972805.79	8972806.02	8972806.26	0.0089	0.0029 *
Moon	19855-08-12 19:55 G	8973173.09	8973173.33	8973173.59	0.0089	0.0029
Earth	19855-08-12 23:02 G	8973173.23	8973173.46	8973173.72	0.0089	0.0029 *
Earth	19856-08-14 12:00 G	8973540.76	8973541.00	8973541.25	0.0089	0.0029
Moon	19856-08-14 15:07 G	8973540.90	8973541.13	8973541.38	0.0089	0.0031 *

Moon	19857-08-16 20:38 G	8973908.13	8973908.36	8973908.62	0.0089	0.0029
Earth	19857-08-17 00:28 G	8973908.29	8973908.52	8973908.78	0.0089	0.0029 *
Earth	19858-08-19 12:57 G	8974275.81	8974276.04	8974276.30	0.0089	0.0030
Moon	19858-08-19 16:04 G	8974275.94	8974276.17	8974276.43	0.0089	0.0031 *
Moon	19859-08-21 23:02 G	8974643.23	8974643.46	8974643.70	0.0089	0.0028
Earth	19859-08-22 01:40 G	8974643.33	8974643.57	8974643.82	0.0089	0.0030 *
Earth	19860-08-23 14:09 G	8975010.85	8975011.09	8975011.34	0.0089	0.0030
Moon	19860-08-23 15:36 G	8975010.91	8975011.15	8975011.41	0.0089	0.0031 *
Earth	19861-08-26 02:38 G	8975378.37	8975378.61	8975378.86	0.0089	0.0030
Moon	19861-08-26 02:24 G	8975378.38	8975378.60	8975378.85	0.0089	0.0029 *
Moon	19862-08-28 14:09 G	8975745.85	8975746.09	8975746.35	0.0089	0.0032
Earth	19862-08-28 14:52 G	8975745.89	8975746.12	8975746.37	0.0089	0.0030 *
Earth	19863-08-31 03:21 G	8976113.40	8976113.64	8976113.89	0.0089	0.0030
Moon	19863-08-31 05:31 G	8976113.49	8976113.73	8976113.97	0.0089	0.0028 *
Moon	19864-09-01 12:28 G	8976480.79	8976481.02	8976481.28	0.0089	0.0031
Earth	19864-09-01 15:50 G	8976480.92	8976481.16	8976481.40	0.0089	0.0030 *
Earth	19865-09-04 03:50 G	8976848.43	8976848.66	8976848.91	0.0089	0.0030
Moon	19865-09-04 07:26 G	8976848.57	8976848.81	8976849.05	0.0089	0.0027 *
Moon	19866-09-06 12:43 G	8977215.79	8977216.03	8977216.27	0.0089	0.0032
Earth	19866-09-06 16:19 G	8977215.95	8977216.18	8977216.43	0.0089	0.0029 *
Earth	19867-09-09 04:19 G	8977583.45	8977583.68	8977583.94	0.0089	0.0030
Moon	19867-09-09 07:40 G	8977583.58	8977583.82	8977584.08	0.0089	0.0027 *
Moon	19868-09-10 13:40 G	8977950.85	8977951.07	8977951.32	0.0089	0.0033
Earth	19868-09-10 16:33 G	8977950.96	8977951.19	8977951.45	0.0089	0.0029 *
Earth	19869-09-13 04:48 G	8978318.46	8978318.70	8978318.95	0.0089	0.0029
Moon	19869-09-13 06:28 G	8978318.52	8978318.77	8978319.03	0.0089	0.0026 *
Earth	19870-09-15 16:33 G	8978685.95	8978686.19	8978686.44	0.0089	0.0028
Moon	19870-09-15 16:04 G	8978685.96	8978686.17	8978686.42	0.0089	0.0031 *
Mars	19870-11-08 14:52 G	8978739.85	8978740.12	8978740.42	0.0089	0.0024
Moon	19871-09-18 04:04 G	8979053.42	8979053.67	8979053.93	0.0089	0.0025

Earth	19871-09-18 04:19 G	8979053.45	8979053.68	8979053.94	0.0089	0.0028 *
Earth	19872-09-19 16:19 G	8979420.94	8979421.18	8979421.43	0.0089	0.0027
Moon	19872-09-19 18:28 G	8979421.03	8979421.27	8979421.50	0.0089	0.0030 *
Mars	19872-10-02 17:31 G	8979434.02	8979434.23	8979434.49	0.0089	0.0055
Moon	19873-09-22 00:57 G	8979788.29	8979788.54	8979788.80	0.0089	0.0024
Earth	19873-09-22 03:50 G	8979788.42	8979788.66	8979788.91	0.0089	0.0027 *
Earth	19874-09-24 15:36 G	8980155.91	8980156.15	8980156.40	0.0089	0.0026
Moon	19874-09-24 18:43 G	8980156.05	8980156.28	8980156.53	0.0089	0.0030 *
Moon	19875-09-26 23:16 G	8980523.24	8980523.47	8980523.73	0.0089	0.0023
Earth	19875-09-27 03:07 G	8980523.39	8980523.63	8980523.89	0.0089	0.0026 *
Earth	19876-09-28 14:52 G	8980890.87	8980891.12	8980891.37	0.0089	0.0025
Moon	19876-09-28 17:45 G	8980891.00	8980891.24	8980891.50	0.0089	0.0029 *
Moon	19877-09-30 23:31 G	8981258.25	8981258.48	8981258.73	0.0089	0.0021
Earth	19877-10-01 02:09 G	8981258.36	8981258.59	8981258.85	0.0089	0.0025 *
Earth	19878-10-03 13:40 G	8981625.83	8981626.07	8981626.33	0.0089	0.0024
Moon	19878-10-03 15:07 G	8981625.89	8981626.13	8981626.40	0.0089	0.0028 *
Moon	19879-10-06 01:12 G	8981993.31	8981993.55	8981993.80	0.0089	0.0020
Earth	19879-10-06 01:12 G	8981993.32	8981993.55	8981993.81	0.0089	0.0024 *
Moon	19880-10-07 12:14 G	8982360.77	8982361.01	8982361.28	0.0089	0.0027
Earth	19880-10-07 12:43 G	8982360.80	8982361.03	8982361.29	0.0089	0.0023 *
Earth	19881-10-10 00:14 G	8982728.27	8982728.51	8982728.76	0.0089	0.0022
Moon	19881-10-10 02:09 G	8982728.36	8982728.59	8982728.85	0.0089	0.0019 *
Moon	19882-10-12 08:24 G	8983095.61	8983095.85	8983096.12	0.0089	0.0025
Earth	19882-10-12 11:31 G	8983095.74	8983095.98	8983096.24	0.0089	0.0021 *
Earth	19883-10-14 22:33 G	8983463.20	8983463.44	8983463.70	0.0089	0.0021
Moon	19883-10-15 02:09 G	8983463.34	8983463.59	8983463.84	0.0089	0.0016 *
Moon	19884-10-16 06:00 G	8983830.52	8983830.75	8983831.01	0.0089	0.0024
Earth	19884-10-16 09:36 G	8983830.67	8983830.90	8983831.17	0.0089	0.0020 *
Earth	19885-10-18 20:38 G	8984198.12	8984198.36	8984198.62	0.0089	0.0019
Moon	19885-10-19 00:00 G	8984198.25	8984198.50	8984198.76	0.0089	0.0015 *

Moon	19886-10-21 05:02 G	8984565.47	8984565.71	8984565.96	0.0089	0.0022
Earth	19886-10-21 07:40 G	8984565.58	8984565.82	8984566.08	0.0089	0.0018 *
Earth	19887-10-23 18:43 G	8984933.03	8984933.28	8984933.54	0.0089	0.0017
Moon	19887-10-23 19:55 G	8984933.08	8984933.33	8984933.60	0.0089	0.0013 *
Earth	19888-10-25 05:45 G	8985300.49	8985300.74	8985300.99	0.0089	0.0016
Moon	19888-10-25 05:31 G	8985300.50	8985300.73	8985300.98	0.0089	0.0020 *
Moon	19889-10-27 15:36 G	8985667.89	8985668.15	8985668.42	0.0088	0.0011
Earth	19889-10-27 16:33 G	8985667.94	8985668.19	8985668.44	0.0088	0.0015 *
Earth	19890-10-30 03:21 G	8986035.39	8986035.64	8986035.90	0.0088	0.0014
Moon	19890-10-30 05:45 G	8986035.50	8986035.74	8986035.99	0.0088	0.0018 *
Moon	19891-11-01 11:16 G	8986402.72	8986402.97	8986403.24	0.0088	0.0009
Earth	19891-11-01 14:24 G	8986402.85	8986403.10	8986403.36	0.0088	0.0013 *
Earth	19892-11-03 01:12 G	8986770.30	8986770.55	8986770.80	0.0088	0.0011
Moon	19892-11-03 04:19 G	8986770.44	8986770.68	8986770.94	0.0088	0.0017 *
Moon	19893-11-05 08:24 G	8987137.60	8987137.85	8987138.11	0.0088	0.0006
Earth	19893-11-05 12:00 G	8987137.75	8987138.00	8987138.26	0.0088	0.0011 *
Earth	19894-11-07 22:33 G	8987505.19	8987505.44	8987505.70	0.0088	0.0009
Moon	19894-11-08 01:26 G	8987505.31	8987505.56	8987505.82	0.0088	0.0014 *
Venus	19895-10-23 19:40 G	8987855.26	8987855.32	8987855.41	0.0088	0.0082
Moon	19895-11-10 06:43 G	8987872.53	8987872.78	8987873.03	0.0088	0.0004
Earth	19895-11-10 09:07 G	8987872.63	8987872.88	8987873.14	0.0088	0.0009 *
Venus	19896-06-05 08:38 G	8988080.71	8988080.86	8988081.02	0.0088	0.0063
Earth	19896-11-11 19:40 G	8988240.07	8988240.32	8988240.58	0.0088	0.0007
Moon	19896-11-11 20:38 G	8988240.10	8988240.36	8988240.63	0.0088	0.0011 *
Venus	19897-01-16 21:07 G	8988306.21	8988306.38	8988306.59	0.0088	0.0044
Venus	19897-08-30 10:19 G	8988531.72	8988531.93	8988532.15	0.0088	0.0024
Earth	19897-11-14 06:00 G	8988607.50	8988607.75	8988608.01	0.0088	0.0006
Moon	19897-11-14 06:14 G	8988607.52	8988607.76	8988608.01	0.0088	0.0002 *
Venus	19898-04-12 23:02 G	8988757.24	8988757.46	8988757.68	0.0088	0.0004
Moon	19898-11-16 15:21 G	8988974.88	8988975.14	8988975.40	0.0088	0.0009



Earth	19898-11-16 16:33 G	8988974.93	8988975.19	8988975.45	0.0088	0.0005 *
Venus	19898-11-24 11:45 G	8988982.78	8988982.99	8988983.21	0.0088	0.0016
Venus	19899-07-08 00:14 G	8989208.32	8989208.51	8989208.72	0.0088	0.0035
Earth	19899-11-19 02:52 G	8989342.37	8989342.62	8989342.88	0.0088	0.0004
Moon	19899-11-19 05:31 G	8989342.48	8989342.73	8989342.98	0.0088	0.0002 *
Venus	19900-02-18 13:12 G	8989433.88	8989434.05	8989434.22	0.0088	0.0055
Venus	19900-10-02 01:40 G	8989659.47	8989659.57	8989659.70	0.0088	0.0074
Moon	19900-11-21 10:04 G	8989709.66	8989709.92	8989710.18	0.0088	0.0007
Earth	19900-11-21 13:12 G	8989709.80	8989710.05	8989710.31	0.0088	0.0003 *
Earth	19901-11-23 23:31 G	8990077.22	8990077.48	8990077.74	0.0088	0.0002
Moon	19901-11-24 03:07 G	8990077.37	8990077.63	8990077.88	0.0088	0.0003 *
Moon	19902-11-26 06:28 G	8990444.52	8990444.77	8990445.03	0.0088	0.0005
Earth	19902-11-26 09:50 G	8990444.66	8990444.91	8990445.17	0.0088	0.0001 *
Mercury	19903-11-21 12:28 G	8990805.01	8990805.02	8990805.06	0.0088	0.0086
Earth	19903-11-28 20:09 G	8990812.09	8990812.34	8990812.60	0.0088	0.0001
Moon	19903-11-28 23:02 G	8990812.20	8990812.46	8990812.72	0.0088	0.0005 *
Mercury	19904-02-17 14:24 G	8990893.05	8990893.10	8990893.17	0.0088	0.0079
Mercury	19904-05-15 16:04 G	8990981.10	8990981.17	8990981.27	0.0088	0.0072
Mercury	19904-08-11 18:14 G	8991069.16	8991069.26	8991069.37	0.0088	0.0064
Mercury	19904-11-07 19:55 G	8991157.23	8991157.33	8991157.46	0.0088	0.0057
Moon	19904-11-30 04:33 G	8991179.44	8991179.69	8991179.94	0.0088	0.0003
Earth	19904-11-30 06:43 G	8991179.52	8991179.78	8991180.03	0.0088	0.0002 *
Mercury	19905-02-03 21:50 G	8991245.30	8991245.41	8991245.55	0.0088	0.0050
Mercury	19905-05-02 23:45 G	8991333.37	8991333.49	8991333.63	0.0088	0.0042
Mercury	19905-07-30 01:40 G	8991421.44	8991421.57	8991421.72	0.0088	0.0035
Mercury	19905-10-26 03:50 G	8991509.51	8991509.66	8991509.80	0.0088	0.0027
Earth	19905-12-02 16:48 G	8991546.94	8991547.20	8991547.46	0.0088	0.0003
Moon	19905-12-02 17:16 G	8991546.96	8991547.22	8991547.49	0.0088	0.0007 *
Mercury	19906-01-22 05:31 G	8991597.59	8991597.73	8991597.89	0.0088	0.0020
Mercury	19906-04-20 07:40 G	8991685.67	8991685.82	8991685.97	0.0088	0.0012

Mercury	19906-07-17 09:36 G	8991773.75	8991773.90	8991774.05	0.0088	0.0005
Mercury	19906-10-13 11:31 G	8991861.83	8991861.98	8991862.13	0.0088	0.0003
Earth	19906-12-05 03:07 G	8991914.37	8991914.63	8991914.89	0.0088	0.0004
Moon	19906-12-05 03:36 G	8991914.41	8991914.65	8991914.90	0.0088	0.0002 *
Mercury	19907-01-09 13:26 G	8991949.91	8991950.06	8991950.21	0.0088	0.0010
Mercury	19907-04-07 15:21 G	8992037.99	8992038.14	8992038.29	0.0088	0.0018
Mercury	19907-07-04 17:16 G	8992126.08	8992126.22	8992126.37	0.0088	0.0026
Mercury	19907-09-30 19:26 G	8992214.16	8992214.31	8992214.45	0.0088	0.0033
Moon	19907-12-07 11:31 G	8992281.73	8992281.98	8992282.25	0.0088	0.0010
Earth	19907-12-07 13:26 G	8992281.80	8992282.06	8992282.31	0.0088	0.0005 *
Mercury	19907-12-27 21:07 G	8992302.25	8992302.38	8992302.53	0.0088	0.0041
Mercury	19908-03-24 23:02 G	8992390.34	8992390.46	8992390.60	0.0088	0.0049
Mercury	19908-06-21 00:57 G	8992478.44	8992478.54	8992478.68	0.0088	0.0057
Mercury	19908-09-17 03:21 G	8992566.54	8992566.64	8992566.75	0.0088	0.0064
Earth	19908-12-08 23:16 G	8992649.22	8992649.47	8992649.73	0.0088	0.0006
Moon	19908-12-09 02:24 G	8992649.35	8992649.60	8992649.85	0.0088	0.0002 *
Mercury	19908-12-14 05:16 G	8992654.64	8992654.72	8992654.81	0.0088	0.0072
Mercury	19909-03-12 07:12 G	8992742.75	8992742.80	8992742.87	0.0088	0.0080
Mercury	19909-06-08 09:21 G	8992830.89	8992830.89	8992830.90	0.0088	0.0088
Moon	19909-12-11 06:00 G	8993016.50	8993016.75	8993017.02	0.0088	0.0012
Earth	19909-12-11 09:36 G	8993016.64	8993016.90	8993017.15	0.0088	0.0007 *
Earth	19910-12-13 19:26 G	8993384.06	8993384.31	8993384.57	0.0088	0.0009
Moon	19910-12-13 23:16 G	8993384.21	8993384.47	8993384.72	0.0088	0.0004 *
Moon	19911-12-16 02:24 G	8993751.36	8993751.60	8993751.85	0.0088	0.0014
Earth	19911-12-16 05:31 G	8993751.48	8993751.73	8993751.99	0.0088	0.0010 *
Earth	19912-12-17 15:36 G	8994118.90	8994119.15	8994119.41	0.0088	0.0011
Moon	19912-12-17 18:14 G	8994119.00	8994119.26	8994119.52	0.0088	0.0006 *
Moon	19913-12-20 00:00 G	8994486.26	8994486.50	8994486.75	0.0088	0.0016
Earth	19913-12-20 01:26 G	8994486.32	8994486.56	8994486.83	0.0088	0.0012 *
Moon	19914-12-22 11:45 G	8994853.73	8994853.99	8994854.26	0.0088	0.0008

Earth	19914-12-22 11:45 G	8994853.74	8994853.99	8994854.25	0.0088	0.0013	*
Earth	19915-12-24 21:50 G	8995221.16	8995221.41	8995221.67	0.0088	0.0014	
Moon	19915-12-24 22:48 G	8995221.22	8995221.45	8995221.70	0.0088	0.0018	*
Moon	19916-12-26 06:00 G	8995588.49	8995588.75	8995589.01	0.0088	0.0010	
Earth	19916-12-26 07:55 G	8995588.59	8995588.83	8995589.09	0.0088	0.0015	*
Jupiter	19917-09-29 23:45 G	8995865.95	8995866.49	8995867.07	0.0088	0.0018	
Earth	19917-12-28 18:00 G	8995956.01	8995956.25	8995956.52	0.0088	0.0016	
Moon	19917-12-28 21:21 G	8995956.15	8995956.39	8995956.65	0.0088	0.0020	*
Moon	19918-12-31 01:12 G	8996323.29	8996323.55	8996323.81	0.0088	0.0012	
Earth	19918-12-31 04:19 G	8996323.44	8996323.68	8996323.94	0.0088	0.0017	*
Earth	19920-01-02 14:24 G	8996690.86	8996691.10	8996691.36	0.0088	0.0018	
Moon	19920-01-02 18:14 G	8996691.01	8996691.26	8996691.51	0.0088	0.0022	*
Moon	19921-01-03 21:50 G	8997058.17	8997058.41	8997058.67	0.0088	0.0014	
Earth	19921-01-04 00:28 G	8997058.29	8997058.52	8997058.79	0.0088	0.0019	*
Earth	19922-01-06 10:48 G	8997425.70	8997425.95	8997426.20	0.0088	0.0019	
Moon	19922-01-06 12:57 G	8997425.79	8997426.04	8997426.30	0.0088	0.0023	*
Moon	19923-01-08 19:40 G	8997793.08	8997793.32	8997793.57	0.0088	0.0016	
Earth	19923-01-08 20:52 G	8997793.13	8997793.37	8997793.63	0.0088	0.0020	*
Moon	19924-01-11 06:28 G	8998160.52	8998160.77	8998161.03	0.0088	0.0025	
Earth	19924-01-11 06:57 G	8998160.55	8998160.79	8998161.05	0.0088	0.0021	*
Earth	19925-01-12 17:02 G	8998527.97	8998528.21	8998528.47	0.0088	0.0022	
Moon	19925-01-12 18:28 G	8998528.03	8998528.27	8998528.52	0.0088	0.0018	*
Moon	19926-01-15 00:43 G	8998895.29	8998895.53	8998895.79	0.0088	0.0027	
Earth	19926-01-15 03:21 G	8998895.40	8998895.64	8998895.89	0.0088	0.0022	*
Earth	19927-01-17 13:26 G	8999262.82	8999263.06	8999263.31	0.0088	0.0023	
Moon	19927-01-17 16:48 G	8999262.96	8999263.20	8999263.46	0.0088	0.0019	*
Moon	19928-01-19 20:09 G	8999630.11	8999630.34	8999630.59	0.0088	0.0028	
Earth	19928-01-19 23:31 G	8999630.24	8999630.48	8999630.74	0.0088	0.0024	*
Earth	19929-01-21 09:36 G	8999997.67	8999997.90	8999998.17	0.0088	0.0025	
Moon	19929-01-21 13:26 G	8999997.82	8999998.06	8999998.32	0.0088	0.0020	*

Moon	19930-01-23 17:31 G	9000365.01	9000365.23	9000365.48	0.0088	0.0030
Earth	19930-01-23 20:09 G	9000365.11	9000365.34	9000365.60	0.0088	0.0025 *
Earth	19931-01-26 06:28 G	9000732.54	9000732.77	9000733.03	0.0088	0.0026
Moon	19931-01-26 08:24 G	9000732.60	9000732.85	9000733.12	0.0088	0.0022 *
Moon	19932-01-28 16:33 G	9001099.95	9001100.19	9001100.42	0.0088	0.0030
Earth	19932-01-28 17:02 G	9001099.98	9001100.21	9001100.47	0.0088	0.0026 *
Moon	19933-01-30 02:24 G	9001467.35	9001467.60	9001467.86	0.0088	0.0022
Earth	19933-01-30 03:21 G	9001467.41	9001467.64	9001467.90	0.0088	0.0027 *
Earth	19934-02-01 13:40 G	9001834.84	9001835.07	9001835.33	0.0088	0.0027
Moon	19934-02-01 15:36 G	9001834.93	9001835.15	9001835.39	0.0088	0.0031 *
Moon	19935-02-03 21:21 G	9002202.15	9002202.39	9002202.66	0.0088	0.0023
Earth	19935-02-04 00:28 G	9002202.28	9002202.52	9002202.77	0.0088	0.0027 *
Earth	19936-02-06 10:19 G	9002569.70	9002569.93	9002570.19	0.0088	0.0028
Moon	19936-02-06 14:09 G	9002569.86	9002570.09	9002570.33	0.0088	0.0032 *
Moon	19937-02-07 17:31 G	9002937.00	9002937.23	9002937.49	0.0088	0.0024
Earth	19937-02-07 21:07 G	9002937.14	9002937.38	9002937.63	0.0088	0.0028 *
Earth	19938-02-10 07:26 G	9003304.58	9003304.81	9003305.06	0.0088	0.0028
Moon	19938-02-10 10:48 G	9003304.72	9003304.95	9003305.21	0.0088	0.0033 *
Moon	19939-02-12 15:50 G	9003671.92	9003672.16	9003672.41	0.0088	0.0024
Earth	19939-02-12 17:45 G	9003672.02	9003672.24	9003672.50	0.0088	0.0029 *
Earth	19940-02-15 04:19 G	9004039.45	9004039.68	9004039.94	0.0088	0.0029
Moon	19940-02-15 06:14 G	9004039.51	9004039.76	9004040.01	0.0088	0.0032 *
Moon	19941-02-16 14:38 G	9004406.88	9004407.11	9004407.36	0.0088	0.0025
Earth	19941-02-16 15:07 G	9004406.90	9004407.13	9004407.38	0.0088	0.0029 *
Moon	19942-02-19 00:28 G	9004774.28	9004774.52	9004774.78	0.0088	0.0033
Earth	19942-02-19 01:55 G	9004774.35	9004774.58	9004774.83	0.0088	0.0029 *
Earth	19943-02-21 12:43 G	9005141.80	9005142.03	9005142.29	0.0088	0.0029
Moon	19943-02-21 14:52 G	9005141.89	9005142.12	9005142.37	0.0088	0.0025 *
Moon	19944-02-23 20:38 G	9005509.12	9005509.36	9005509.61	0.0088	0.0033
Earth	19944-02-23 23:31 G	9005509.25	9005509.48	9005509.74	0.0088	0.0029 *

Earth	19945-02-25 10:19 G	9005876.70	9005876.93	9005877.19	0.0088	0.0029
Moon	19945-02-25 13:55 G	9005876.85	9005877.08	9005877.34	0.0088	0.0025 *
Moon	19946-02-27 18:00 G	9006244.03	9006244.25	9006244.50	0.0088	0.0033
Earth	19946-02-27 21:21 G	9006244.16	9006244.39	9006244.65	0.0088	0.0029 *
Earth	19947-03-02 08:09 G	9006611.61	9006611.84	9006612.10	0.0088	0.0029
Moon	19947-03-02 11:45 G	9006611.75	9006611.99	9006612.25	0.0088	0.0025 *
Moon	19948-03-03 17:16 G	9006979.00	9006979.22	9006979.47	0.0088	0.0033
Earth	19948-03-03 19:12 G	9006979.07	9006979.30	9006979.56	0.0088	0.0029 *
Earth	19949-03-06 06:28 G	9007346.53	9007346.77	9007347.02	0.0088	0.0028
Moon	19949-03-06 07:26 G	9007346.57	9007346.81	9007347.08	0.0088	0.0025 *
Earth	19950-03-08 17:16 G	9007713.99	9007714.22	9007714.48	0.0088	0.0029
Moon	19950-03-08 17:16 G	9007714.00	9007714.22	9007714.46	0.0088	0.0032 *
Moon	19951-03-11 02:38 G	9008081.37	9008081.61	9008081.89	0.0088	0.0025
Earth	19951-03-11 04:33 G	9008081.45	9008081.69	9008081.94	0.0088	0.0028 *
Earth	19952-03-12 15:50 G	9008448.91	9008449.16	9008449.40	0.0088	0.0028
Moon	19952-03-12 17:45 G	9008449.02	9008449.24	9008449.49	0.0088	0.0031 *
Mars	19952-10-05 12:14 G	9008655.92	9008656.01	9008656.16	0.0088	0.0082
Moon	19953-03-14 23:45 G	9008816.24	9008816.49	9008816.75	0.0088	0.0024
Earth	19953-03-15 03:07 G	9008816.39	9008816.63	9008816.88	0.0088	0.0027 *
Earth	19954-03-17 14:09 G	9009183.86	9009184.09	9009184.35	0.0088	0.0027
Moon	19954-03-17 17:45 G	9009184.02	9009184.24	9009184.50	0.0088	0.0031 *
Mars	19954-09-01 04:33 G	9009351.36	9009351.69	9009352.03	0.0088	0.0003
Moon	19955-03-19 22:19 G	9009551.20	9009551.43	9009551.69	0.0088	0.0023
Earth	19955-03-20 01:55 G	9009551.34	9009551.58	9009551.83	0.0088	0.0027 *
Earth	19956-03-21 13:12 G	9009918.82	9009919.05	9009919.31	0.0088	0.0026
Moon	19956-03-21 16:33 G	9009918.96	9009919.19	9009919.45	0.0088	0.0030 *
Mars	19956-07-27 17:02 G	9010047.20	9010047.21	9010047.30	0.0088	0.0088
Moon	19957-03-23 23:02 G	9010286.23	9010286.46	9010286.72	0.0088	0.0022
Earth	19957-03-24 01:12 G	9010286.30	9010286.55	9010286.80	0.0088	0.0026 *
Earth	19958-03-26 12:28 G	9010653.79	9010654.02	9010654.29	0.0088	0.0026

Moon	19958-03-26 14:09 G	9010653.84	9010654.09	9010654.35	0.0088	0.0028	*
Earth	19959-03-29 00:28 G	9011021.28	9011021.52	9011021.78	0.0088	0.0024	
Moon	19959-03-29 00:28 G	9011021.29	9011021.52	9011021.77	0.0088	0.0021	*
Moon	19960-03-30 10:04 G	9011388.68	9011388.92	9011389.19	0.0088	0.0028	
Earth	19960-03-30 12:14 G	9011388.76	9011389.01	9011389.26	0.0088	0.0024	*
Earth	19961-04-01 23:45 G	9011756.25	9011756.49	9011756.75	0.0088	0.0023	
Moon	19961-04-02 01:55 G	9011756.35	9011756.58	9011756.84	0.0088	0.0021	*
Moon	19962-04-04 08:24 G	9012123.61	9012123.85	9012124.11	0.0088	0.0026	
Earth	19962-04-04 11:45 G	9012123.75	9012123.99	9012124.25	0.0088	0.0022	*
Earth	19963-04-06 23:31 G	9012491.23	9012491.48	9012491.74	0.0088	0.0022	
Moon	19963-04-07 02:52 G	9012491.38	9012491.62	9012491.89	0.0088	0.0019	*
Moon	19964-04-08 07:55 G	9012858.59	9012858.83	9012859.09	0.0088	0.0023	
Earth	19964-04-08 11:31 G	9012858.73	9012858.98	9012859.24	0.0088	0.0021	*
Earth	19965-04-10 23:31 G	9013226.23	9013226.48	9013226.73	0.0088	0.0020	
Moon	19965-04-11 02:38 G	9013226.36	9013226.61	9013226.88	0.0088	0.0018	*
Moon	19966-04-13 09:36 G	9013593.66	9013593.90	9013594.15	0.0089	0.0022	
Earth	19966-04-13 11:31 G	9013593.73	9013593.98	9013594.24	0.0089	0.0019	*
Earth	19967-04-15 23:31 G	9013961.24	9013961.48	9013961.75	0.0089	0.0018	
Moon	19967-04-16 00:57 G	9013961.28	9013961.54	9013961.81	0.0089	0.0016	*
Earth	19968-04-17 12:00 G	9014328.74	9014329.00	9014329.25	0.0089	0.0017	
Moon	19968-04-17 11:45 G	9014328.76	9014328.99	9014329.25	0.0089	0.0020	*
Moon	19969-04-19 22:33 G	9014696.18	9014696.44	9014696.71	0.0089	0.0014	
Earth	19969-04-20 00:14 G	9014696.26	9014696.51	9014696.77	0.0089	0.0016	*
Earth	19970-04-22 12:28 G	9015063.78	9015064.02	9015064.29	0.0089	0.0016	
Moon	19970-04-22 14:52 G	9015063.88	9015064.12	9015064.37	0.0089	0.0017	*
Moon	19971-04-24 21:50 G	9015431.15	9015431.41	9015431.67	0.0089	0.0012	
Earth	19971-04-25 00:57 G	9015431.29	9015431.54	9015431.81	0.0089	0.0015	*
Earth	19972-04-26 13:12 G	9015798.81	9015799.05	9015799.32	0.0089	0.0014	
Moon	19972-04-26 16:48 G	9015798.96	9015799.20	9015799.47	0.0089	0.0016	*
Moon	19973-04-28 22:33 G	9016166.19	9016166.44	9016166.70	0.0089	0.0011	

Earth	19973-04-29 02:09 G	9016166.33	9016166.59	9016166.85	0.0089	0.0012	*
Earth	19974-05-01 14:24 G	9016533.85	9016534.10	9016534.36	0.0089	0.0011	
Moon	19974-05-01 17:45 G	9016533.98	9016534.24	9016534.50	0.0089	0.0012	*
Moon	19975-05-04 00:43 G	9016901.29	9016901.53	9016901.79	0.0089	0.0009	
Earth	19975-05-04 02:52 G	9016901.37	9016901.62	9016901.88	0.0089	0.0010	*
Earth	19976-05-05 15:21 G	9017268.88	9017269.14	9017269.40	0.0089	0.0009	
Moon	19976-05-05 17:02 G	9017268.94	9017269.21	9017269.48	0.0089	0.0009	*
Earth	19977-05-08 04:04 G	9017636.41	9017636.67	9017636.93	0.0089	0.0008	
Moon	19977-05-08 03:50 G	9017636.42	9017636.66	9017636.92	0.0089	0.0007	*
Moon	19978-05-10 15:07 G	9018003.87	9018004.13	9018004.41	0.0089	0.0008	
Earth	19978-05-10 16:33 G	9018003.94	9018004.19	9018004.46	0.0089	0.0007	*
Venus	19979-03-05 04:04 G	9018302.60	9018302.67	9018302.76	0.0089	0.0082	
Earth	19979-05-13 05:16 G	9018371.46	9018371.72	9018371.98	0.0089	0.0006	
Moon	19979-05-13 07:12 G	9018371.55	9018371.80	9018372.05	0.0089	0.0005	*
Venus	19979-10-16 17:16 G	9018528.08	9018528.22	9018528.39	0.0089	0.0062	
Moon	19980-05-14 14:52 G	9018738.86	9018739.12	9018739.39	0.0089	0.0005	
Earth	19980-05-14 18:14 G	9018739.00	9018739.26	9018739.52	0.0089	0.0004	*
Venus	19980-05-29 06:28 G	9018753.59	9018753.77	9018753.97	0.0089	0.0042	
Venus	19981-01-09 19:40 G	9018979.11	9018979.32	9018979.54	0.0089	0.0022	
Earth	19981-05-17 07:12 G	9019106.54	9019106.80	9019107.06	0.0089	0.0003	
Moon	19981-05-17 10:33 G	9019106.69	9019106.94	9019107.20	0.0089	0.0003	*
Venus	19981-08-23 09:07 G	9019204.66	9019204.88	9019205.10	0.0089	0.0002	
Venus	19982-04-05 22:04 G	9019430.22	9019430.42	9019430.65	0.0089	0.0019	
Moon	19982-05-19 16:33 G	9019473.93	9019474.19	9019474.45	0.0089	0.0002	
Earth	19982-05-19 20:09 G	9019474.08	9019474.34	9019474.60	0.0089	0.0002	*
Venus	19982-11-17 11:16 G	9019655.79	9019655.97	9019656.18	0.0089	0.0039	
Earth	19983-05-22 09:07 G	9019841.62	9019841.88	9019842.14	0.0089	0.0001	
Moon	19983-05-22 12:28 G	9019841.76	9019842.02	9019842.28	0.0089	0.0001	*
Venus	19983-07-01 00:28 G	9019881.37	9019881.52	9019881.70	0.0089	0.0059	
Venus	19984-02-11 13:40 G	9020106.99	9020107.07	9020107.19	0.0089	0.0080	

Moon	19984-05-23 19:55 G	9020209.07	9020209.33	9020209.58	0.0089	0.0001
Earth	19984-05-23 22:04 G	9020209.16	9020209.42	9020209.68	0.0089	0.0001 *
Earth	19985-05-26 11:02 G	9020576.70	9020576.96	9020577.22	0.0089	0.0002
Moon	19985-05-26 12:57 G	9020576.77	9020577.04	9020577.31	0.0089	0.0001 *
Moon	19986-05-28 23:45 G	9020944.24	9020944.49	9020944.74	0.0089	0.0003
Earth	19986-05-29 00:00 G	9020944.25	9020944.50	9020944.77	0.0089	0.0003 *
Mercury	19987-05-17 05:02 G	9021297.69	9021297.71	9021297.76	0.0089	0.0087
Moon	19987-05-31 12:00 G	9021311.73	9021312.00	9021312.27	0.0089	0.0004
Earth	19987-05-31 12:57 G	9021311.78	9021312.04	9021312.30	0.0089	0.0004 *
Mercury	19987-08-13 07:40 G	9021385.75	9021385.82	9021385.90	0.0089	0.0078
Mercury	19987-11-09 09:50 G	9021473.83	9021473.91	9021474.03	0.0089	0.0070
Mercury	19988-02-05 12:28 G	9021561.91	9021562.02	9021562.15	0.0089	0.0061
Mercury	19988-05-03 15:07 G	9021650.00	9021650.13	9021650.26	0.0089	0.0053
Earth	19988-06-02 01:55 G	9021679.33	9021679.58	9021679.85	0.0089	0.0005
Moon	19988-06-02 03:36 G	9021679.40	9021679.65	9021679.90	0.0089	0.0006 *
Mercury	19988-07-30 17:16 G	9021738.09	9021738.22	9021738.37	0.0089	0.0044
Mercury	19988-10-26 19:55 G	9021826.18	9021826.33	9021826.48	0.0089	0.0036
Mercury	19989-01-22 22:04 G	9021914.27	9021914.42	9021914.59	0.0089	0.0028
Mercury	19989-04-21 00:43 G	9022002.37	9022002.53	9022002.69	0.0089	0.0019
Moon	19989-06-04 12:00 G	9022046.74	9022047.00	9022047.27	0.0089	0.0005
Earth	19989-06-04 15:07 G	9022046.88	9022047.13	9022047.39	0.0089	0.0006 *
Mercury	19989-07-18 03:07 G	9022090.47	9022090.63	9022090.79	0.0089	0.0010
Mercury	19989-10-14 05:16 G	9022178.56	9022178.72	9022178.89	0.0089	0.0004
Mercury	19990-01-10 07:40 G	9022266.66	9022266.82	9022266.98	0.0089	0.0007
Mercury	19990-04-08 10:04 G	9022354.76	9022354.92	9022355.08	0.0089	0.0015
Earth	19990-06-07 04:04 G	9022414.41	9022414.67	9022414.93	0.0089	0.0007
Moon	19990-06-07 07:26 G	9022414.56	9022414.81	9022415.07	0.0089	0.0008 *
Mercury	19990-07-05 12:14 G	9022442.86	9022443.01	9022443.17	0.0089	0.0023
Mercury	19990-10-01 14:38 G	9022530.96	9022531.11	9022531.26	0.0089	0.0031
Mercury	19990-12-28 17:02 G	9022619.06	9022619.21	9022619.35	0.0089	0.0040



Mercury	19991-03-26 18:57 G	9022707.17	9022707.29	9022707.44	0.0089	0.0048
Moon	19991-06-09 13:40 G	9022781.81	9022782.07	9022782.33	0.0089	0.0007
Earth	19991-06-09 17:16 G	9022781.97	9022782.22	9022782.48	0.0089	0.0009 *
Mercury	19991-06-22 21:21 G	9022795.28	9022795.39	9022795.52	0.0089	0.0056
Mercury	19991-09-18 23:31 G	9022883.38	9022883.48	9022883.60	0.0089	0.0065
Mercury	19991-12-16 01:55 G	9022971.50	9022971.58	9022971.68	0.0089	0.0072
Mercury	19992-03-13 04:04 G	9023059.61	9023059.67	9023059.75	0.0089	0.0080
Mercury	19992-06-09 06:14 G	9023147.75	9023147.76	9023147.79	0.0089	0.0089
Earth	19992-06-11 06:28 G	9023149.51	9023149.77	9023150.03	0.0089	0.0010
Moon	19992-06-11 09:50 G	9023149.66	9023149.91	9023150.18	0.0089	0.0012 *
Moon	19993-06-13 17:16 G	9023516.97	9023517.22	9023517.47	0.0089	0.0009
Earth	19993-06-13 19:55 G	9023517.07	9023517.33	9023517.59	0.0089	0.0011 *
Earth	19994-06-16 09:07 G	9023884.63	9023884.88	9023885.14	0.0089	0.0012
Moon	19994-06-16 11:16 G	9023884.71	9023884.97	9023885.24	0.0089	0.0015 *
Moon	19995-06-18 21:50 G	9024252.16	9024252.41	9024252.66	0.0089	0.0011
Earth	19995-06-18 22:19 G	9024252.18	9024252.43	9024252.69	0.0089	0.0013 *
Moon	19996-06-20 11:02 G	9024619.71	9024619.96	9024620.24	0.0089	0.0016
Earth	19996-06-20 11:45 G	9024619.74	9024619.99	9024620.25	0.0089	0.0014 *
Earth	19997-06-23 00:57 G	9024987.29	9024987.54	9024987.81	0.0089	0.0016
Moon	19997-06-23 02:24 G	9024987.35	9024987.60	9024987.85	0.0089	0.0012 *
Moon	19998-06-25 11:16 G	9025354.72	9025354.97	9025355.24	0.0089	0.0019
Earth	19998-06-25 14:09 G	9025354.84	9025355.09	9025355.35	0.0089	0.0016 *
Earth	19999-06-28 03:21 G	9025722.39	9025722.64	9025722.90	0.0089	0.0017
Moon	19999-06-28 06:28 G	9025722.53	9025722.77	9025723.03	0.0089	0.0015 *
Moon	20000-06-29 12:57 G	9026089.80	9026090.04	9026090.30	0.0090	0.0022
Earth	20000-06-29 16:33 G	9026089.95	9026090.19	9026090.46	0.0090	0.0019 *

# 21ST MILLENNIUM CE

**This is a list of transits visible from Neptune in the 21st millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	20001-07-02 05:45	G	9026457.50	9026457.74	9026458.00	0.0090	0.0019	
Moon	20001-07-02 09:36	G	9026457.64	9026457.90	9026458.16	0.0090	0.0016	*
Moon	20002-07-04 16:04	G	9026824.94	9026825.17	9026825.43	0.0090	0.0023	
Earth	20002-07-04 19:12	G	9026825.05	9026825.30	9026825.55	0.0090	0.0020	*
Earth	20003-07-07 08:09	G	9027192.59	9027192.84	9027193.10	0.0090	0.0021	
Moon	20003-07-07 10:48	G	9027192.69	9027192.95	9027193.22	0.0090	0.0017	*
Moon	20004-07-08 20:24	G	9027560.12	9027560.35	9027560.60	0.0090	0.0025	
Earth	20004-07-08 21:21	G	9027560.15	9027560.39	9027560.65	0.0090	0.0022	*
Moon	20005-07-11 10:33	G	9027927.69	9027927.94	9027928.22	0.0090	0.0020	
Earth	20005-07-11 10:48	G	9027927.71	9027927.95	9027928.21	0.0090	0.0023	*
Earth	20006-07-13 23:45	G	9028295.25	9028295.49	9028295.75	0.0090	0.0024	
Moon	20006-07-14 00:43	G	9028295.30	9028295.53	9028295.78	0.0090	0.0027	*
Moon	20007-07-16 10:33	G	9028662.70	9028662.94	9028663.21	0.0090	0.0021	
Earth	20007-07-16 13:26	G	9028662.81	9028663.06	9028663.31	0.0090	0.0024	*
Earth	20008-07-18 02:38	G	9029030.37	9029030.61	9029030.86	0.0090	0.0025	
Moon	20008-07-18 05:16	G	9029030.50	9029030.72	9029030.98	0.0090	0.0029	*
Moon	20009-07-20 12:28	G	9029397.77	9029398.02	9029398.27	0.0090	0.0021	
Earth	20009-07-20 15:50	G	9029397.92	9029398.16	9029398.42	0.0090	0.0025	*
Earth	20010-07-23 05:02	G	9029765.46	9029765.71	9029765.96	0.0090	0.0026	
Moon	20010-07-23 08:24	G	9029765.62	9029765.85	9029766.11	0.0090	0.0030	*
Moon	20011-07-25 14:52	G	9030132.88	9030133.12	9030133.38	0.0090	0.0022	

Earth	20011-07-25 18:00 G	9030133.01	9030133.25	9030133.51	0.0090	0.0027 *
Earth	20012-07-27 06:57 G	9030500.55	9030500.79	9030501.05	0.0090	0.0027
Moon	20012-07-27 09:50 G	9030500.67	9030500.91	9030501.17	0.0090	0.0032 *
Moon	20013-07-29 18:43 G	9030868.05	9030868.28	9030868.53	0.0090	0.0023
Earth	20013-07-29 19:55 G	9030868.10	9030868.33	9030868.59	0.0090	0.0028 *
Earth	20014-08-01 08:38 G	9031235.63	9031235.86	9031236.12	0.0090	0.0028
Moon	20014-08-01 09:07 G	9031235.64	9031235.88	9031236.14	0.0090	0.0032 *
Earth	20015-08-03 21:36 G	9031603.17	9031603.40	9031603.66	0.0090	0.0028
Moon	20015-08-03 22:19 G	9031603.20	9031603.43	9031603.68	0.0090	0.0024 *
Moon	20016-08-05 08:24 G	9031970.61	9031970.85	9031971.11	0.0090	0.0033
Earth	20016-08-05 10:33 G	9031970.71	9031970.94	9031971.20	0.0090	0.0029 *
Earth	20017-08-07 23:31 G	9032338.24	9032338.48	9032338.73	0.0090	0.0029
Moon	20017-08-08 02:09 G	9032338.35	9032338.59	9032338.84	0.0090	0.0025 *
Moon	20018-08-10 09:07 G	9032705.64	9032705.88	9032706.12	0.0090	0.0034
Earth	20018-08-10 12:43 G	9032705.78	9032706.03	9032706.27	0.0090	0.0029 *
Earth	20019-08-13 01:12 G	9033073.32	9033073.55	9033073.81	0.0090	0.0030
Moon	20019-08-13 05:02 G	9033073.47	9033073.71	9033073.96	0.0090	0.0025 *
Moon	20020-08-14 11:16 G	9033440.74	9033440.97	9033441.21	0.0089	0.0034
Earth	20020-08-14 14:09 G	9033440.86	9033441.09	9033441.35	0.0089	0.0030 *
Earth	20021-08-17 03:07 G	9033808.40	9033808.63	9033808.89	0.0089	0.0030
Moon	20021-08-17 06:14 G	9033808.52	9033808.76	9033809.02	0.0089	0.0025 *
Moon	20022-08-19 14:09 G	9034175.88	9034176.09	9034176.34	0.0089	0.0035
Earth	20022-08-19 15:50 G	9034175.93	9034176.16	9034176.41	0.0089	0.0030 *
Earth	20023-08-22 04:33 G	9034543.46	9034543.69	9034543.94	0.0089	0.0030
Moon	20023-08-22 05:16 G	9034543.48	9034543.72	9034543.99	0.0089	0.0026 *
Earth	20024-08-23 17:16 G	9034910.98	9034911.22	9034911.47	0.0089	0.0030
Moon	20024-08-23 17:31 G	9034911.01	9034911.23	9034911.47	0.0089	0.0034 *
Moon	20025-08-26 03:50 G	9035278.40	9035278.66	9035278.91	0.0089	0.0025
Earth	20025-08-26 05:31 G	9035278.50	9035278.73	9035278.99	0.0089	0.0030 *
Earth	20026-08-28 18:00 G	9035646.02	9035646.25	9035646.51	0.0089	0.0029

Moon	20026-08-28 20:24 G	9035646.13	9035646.35	9035646.60	0.0089	0.0034 *
Moon	20027-08-31 03:07 G	9036013.39	9036013.63	9036013.89	0.0089	0.0025
Earth	20027-08-31 06:28 G	9036013.54	9036013.77	9036014.03	0.0089	0.0029 *
Earth	20028-09-01 18:43 G	9036381.05	9036381.28	9036381.54	0.0089	0.0029
Moon	20028-09-01 22:33 G	9036381.21	9036381.44	9036381.68	0.0089	0.0034 *
Moon	20029-09-04 04:04 G	9036748.43	9036748.67	9036748.92	0.0089	0.0025
Earth	20029-09-04 07:26 G	9036748.57	9036748.81	9036749.06	0.0089	0.0029 *
Earth	20030-09-06 19:26 G	9037116.07	9037116.31	9037116.56	0.0089	0.0028
Moon	20030-09-06 22:33 G	9037116.21	9037116.44	9037116.69	0.0089	0.0033 *
Moon	20031-09-09 06:28 G	9037483.53	9037483.77	9037484.01	0.0089	0.0024
Earth	20031-09-09 07:40 G	9037483.59	9037483.82	9037484.08	0.0089	0.0028 *
Earth	20032-09-10 20:09 G	9037851.11	9037851.34	9037851.60	0.0089	0.0028
Moon	20032-09-10 21:07 G	9037851.15	9037851.38	9037851.65	0.0089	0.0031 *
Earth	20033-09-13 08:24 G	9038218.61	9038218.85	9038219.10	0.0089	0.0027
Moon	20033-09-13 08:38 G	9038218.63	9038218.86	9038219.11	0.0089	0.0023 *
Mars	20034-06-24 13:12 G	9038502.83	9038503.05	9038503.28	0.0089	0.0057
Moon	20034-09-15 18:43 G	9038586.04	9038586.28	9038586.54	0.0089	0.0031
Earth	20034-09-15 20:38 G	9038586.12	9038586.36	9038586.61	0.0089	0.0027 *
Earth	20035-09-18 08:38 G	9038953.62	9038953.86	9038954.11	0.0089	0.0026
Moon	20035-09-18 11:02 G	9038953.72	9038953.96	9038954.21	0.0089	0.0022 *
Mars	20036-05-18 12:43 G	9039196.76	9039197.03	9039197.34	0.0089	0.0022
Moon	20036-09-19 17:16 G	9039320.98	9039321.22	9039321.47	0.0089	0.0030
Earth	20036-09-19 20:38 G	9039321.12	9039321.36	9039321.61	0.0089	0.0025 *
Earth	20037-09-22 08:09 G	9039688.61	9039688.84	9039689.11	0.0089	0.0026
Moon	20037-09-22 11:45 G	9039688.76	9039688.99	9039689.26	0.0089	0.0021 *
Moon	20038-09-24 17:02 G	9040055.96	9040056.21	9040056.45	0.0089	0.0028
Earth	20038-09-24 20:09 G	9040056.10	9040056.34	9040056.60	0.0089	0.0024 *
Earth	20039-09-27 07:55 G	9040423.59	9040423.83	9040424.08	0.0089	0.0023
Moon	20039-09-27 10:48 G	9040423.71	9040423.95	9040424.22	0.0089	0.0020 *
Moon	20040-09-28 18:00 G	9040791.02	9040791.25	9040791.49	0.0089	0.0026

Earth	20040-09-28 19:26 G	9040791.08	9040791.31	9040791.57	0.0089	0.0023	*
Earth	20041-10-01 06:57 G	9041158.55	9041158.79	9041159.05	0.0089	0.0022	
Moon	20041-10-01 08:09 G	9041158.59	9041158.84	9041159.11	0.0089	0.0019	*
Earth	20042-10-03 18:43 G	9041526.04	9041526.28	9041526.54	0.0089	0.0021	
Moon	20042-10-03 18:57 G	9041526.06	9041526.29	9041526.54	0.0089	0.0025	*
Moon	20043-10-06 04:19 G	9041893.43	9041893.68	9041893.95	0.0089	0.0017	
Earth	20043-10-06 06:28 G	9041893.52	9041893.77	9041894.02	0.0089	0.0020	*
Earth	20044-10-07 18:00 G	9042261.00	9042261.25	9042261.50	0.0089	0.0019	
Moon	20044-10-07 20:09 G	9042261.10	9042261.34	9042261.58	0.0089	0.0022	*
Moon	20045-10-10 01:55 G	9042628.33	9042628.58	9042628.84	0.0089	0.0015	
Earth	20045-10-10 05:16 G	9042628.48	9042628.72	9042628.98	0.0089	0.0019	*
Earth	20046-10-12 16:33 G	9042995.95	9042996.19	9042996.45	0.0089	0.0018	
Moon	20046-10-12 20:09 G	9042996.10	9042996.34	9042996.60	0.0089	0.0021	*
Moon	20047-10-15 00:43 G	9043363.28	9043363.53	9043363.78	0.0089	0.0014	
Earth	20047-10-15 04:04 G	9043363.42	9043363.67	9043363.93	0.0089	0.0017	*
Earth	20048-10-16 15:07 G	9043730.89	9043731.13	9043731.39	0.0089	0.0016	
Moon	20048-10-16 18:14 G	9043731.01	9043731.26	9043731.52	0.0089	0.0019	*
Moon	20049-10-19 00:43 G	9044098.29	9044098.53	9044098.78	0.0089	0.0012	
Earth	20049-10-19 02:09 G	9044098.35	9044098.59	9044098.85	0.0089	0.0015	*
Earth	20050-10-21 13:12 G	9044465.81	9044466.05	9044466.31	0.0089	0.0014	
Moon	20050-10-21 14:24 G	9044465.84	9044466.10	9044466.37	0.0089	0.0016	*
Earth	20051-10-24 00:14 G	9044833.27	9044833.51	9044833.78	0.0089	0.0013	
Moon	20051-10-24 00:57 G	9044833.30	9044833.54	9044833.79	0.0089	0.0010	*
Moon	20052-10-25 09:07 G	9045200.63	9045200.88	9045201.15	0.0089	0.0015	
Earth	20052-10-25 11:16 G	9045200.72	9045200.97	9045201.23	0.0089	0.0012	*
Earth	20053-10-27 22:04 G	9045568.17	9045568.42	9045568.68	0.0089	0.0011	
Moon	20053-10-28 00:28 G	9045568.28	9045568.52	9045568.78	0.0089	0.0009	*
Moon	20054-10-30 05:16 G	9045935.48	9045935.72	9045935.99	0.0089	0.0013	
Earth	20054-10-30 09:07 G	9045935.63	9045935.88	9045936.14	0.0089	0.0009	*
Earth	20055-11-01 19:40 G	9046303.07	9046303.32	9046303.58	0.0088	0.0009	

Moon	20055-11-01 23:16 G	9046303.22	9046303.47	9046303.73	0.0088	0.0006 *
Moon	20056-11-03 03:21 G	9046670.39	9046670.64	9046670.90	0.0088	0.0009
Earth	20056-11-03 06:43 G	9046670.53	9046670.78	9046671.04	0.0088	0.0007 *
Earth	20057-11-05 17:16 G	9047037.97	9047038.22	9047038.49	0.0088	0.0007
Moon	20057-11-05 20:09 G	9047038.08	9047038.34	9047038.61	0.0088	0.0004 *
Moon	20058-11-08 02:52 G	9047405.38	9047405.62	9047405.87	0.0088	0.0008
Earth	20058-11-08 04:19 G	9047405.43	9047405.68	9047405.94	0.0088	0.0005 *
Earth	20059-11-10 15:07 G	9047772.88	9047773.13	9047773.39	0.0088	0.0004
Moon	20059-11-10 15:50 G	9047772.90	9047773.16	9047773.43	0.0088	0.0003 *
Venus	20060-09-07 16:33 G	9048075.09	9048075.19	9048075.33	0.0088	0.0073
Earth	20060-11-12 01:40 G	9048140.32	9048140.57	9048140.83	0.0088	0.0003
Moon	20060-11-12 02:38 G	9048140.36	9048140.61	9048140.86	0.0088	0.0005 *
Venus	20061-04-21 05:31 G	9048300.57	9048300.73	9048300.91	0.0088	0.0054
Moon	20061-11-14 10:04 G	9048507.66	9048507.92	9048508.18	0.0088	0.0001
Earth	20061-11-14 12:14 G	9048507.76	9048508.01	9048508.27	0.0088	0.0002 *
Venus	20061-12-02 18:14 G	9048526.07	9048526.26	9048526.47	0.0088	0.0034
Venus	20062-07-16 07:12 G	9048751.59	9048751.80	9048752.02	0.0088	0.0014
Earth	20062-11-16 22:48 G	9048875.19	9048875.45	9048875.71	0.0088	0.0000
Moon	20062-11-17 01:26 G	9048875.31	9048875.56	9048875.81	0.0088	0.0002 *
Venus	20063-02-26 19:55 G	9048977.11	9048977.33	9048977.55	0.0088	0.0006
Venus	20063-10-10 08:38 G	9049202.66	9049202.86	9049203.08	0.0088	0.0025
Moon	20063-11-19 05:31 G	9049242.48	9049242.73	9049242.99	0.0088	0.0003
Earth	20063-11-19 09:21 G	9049242.63	9049242.89	9049243.14	0.0088	0.0001 *
Venus	20064-05-22 21:21 G	9049428.21	9049428.39	9049428.59	0.0088	0.0044
Earth	20064-11-20 19:40 G	9049610.06	9049610.32	9049610.57	0.0088	0.0002
Moon	20064-11-20 23:02 G	9049610.20	9049610.46	9049610.72	0.0088	0.0000 *
Venus	20065-01-03 09:36 G	9049653.78	9049653.90	9049654.08	0.0088	0.0065
Venus	20065-08-16 22:33 G	9049879.39	9049879.44	9049879.53	0.0088	0.0084
Moon	20065-11-23 02:38 G	9049977.36	9049977.61	9049977.87	0.0088	0.0004
Earth	20065-11-23 06:00 G	9049977.49	9049977.75	9049978.01	0.0088	0.0003 *

Earth	20066-11-25 16:19 G	9050344.92	9050345.18	9050345.44	0.0088	0.0004
Moon	20066-11-25 18:43 G	9050345.02	9050345.28	9050345.55	0.0088	0.0003 *
Moon	20067-11-28 01:40 G	9050712.32	9050712.57	9050712.82	0.0088	0.0007
Earth	20067-11-28 02:38 G	9050712.36	9050712.61	9050712.87	0.0088	0.0005 *
Mercury	20068-08-17 11:02 G	9050975.94	9050975.96	9050976.01	0.0088	0.0086
Mercury	20068-11-13 12:57 G	9051063.98	9051064.04	9051064.12	0.0088	0.0078
Earth	20068-11-29 12:57 G	9051079.78	9051080.04	9051080.30	0.0088	0.0006
Moon	20068-11-29 13:12 G	9051079.79	9051080.05	9051080.32	0.0088	0.0006 *
Mercury	20069-02-09 14:38 G	9051152.04	9051152.11	9051152.22	0.0088	0.0071
Mercury	20069-05-08 16:48 G	9051240.10	9051240.20	9051240.31	0.0088	0.0063
Mercury	20069-08-04 18:28 G	9051328.17	9051328.27	9051328.40	0.0088	0.0056
Mercury	20069-10-31 20:24 G	9051416.24	9051416.35	9051416.49	0.0088	0.0049
Earth	20069-12-01 23:16 G	9051447.22	9051447.47	9051447.73	0.0088	0.0008
Moon	20069-12-02 00:43 G	9051447.28	9051447.53	9051447.78	0.0088	0.0009 *
Mercury	20070-01-27 22:19 G	9051504.31	9051504.43	9051504.57	0.0088	0.0041
Mercury	20070-04-26 00:14 G	9051592.38	9051592.51	9051592.66	0.0088	0.0034
Mercury	20070-07-23 02:24 G	9051680.45	9051680.60	9051680.74	0.0088	0.0026
Mercury	20070-10-19 04:04 G	9051768.53	9051768.67	9051768.83	0.0088	0.0019
Moon	20070-12-04 07:12 G	9051814.54	9051814.80	9051815.06	0.0088	0.0007
Earth	20070-12-04 09:36 G	9051814.65	9051814.90	9051815.16	0.0088	0.0009 *
Mercury	20071-01-15 06:14 G	9051856.61	9051856.76	9051856.91	0.0088	0.0011
Mercury	20071-04-13 08:09 G	9051944.68	9051944.84	9051944.99	0.0088	0.0004
Mercury	20071-07-10 10:04 G	9052032.77	9052032.92	9052033.07	0.0088	0.0004
Mercury	20071-10-06 12:00 G	9052120.85	9052121.00	9052121.15	0.0088	0.0011
Earth	20071-12-06 19:55 G	9052182.08	9052182.33	9052182.59	0.0088	0.0010
Moon	20071-12-06 22:48 G	9052182.21	9052182.45	9052182.71	0.0088	0.0011 *
Mercury	20072-01-02 13:55 G	9052208.93	9052209.08	9052209.23	0.0088	0.0019
Mercury	20072-03-30 15:50 G	9052297.02	9052297.16	9052297.31	0.0088	0.0027
Mercury	20072-06-26 18:00 G	9052385.10	9052385.25	9052385.39	0.0088	0.0034
Mercury	20072-09-22 19:40 G	9052473.19	9052473.32	9052473.46	0.0088	0.0042

Moon	20072-12-08 02:38 G	9052549.36	9052549.61	9052549.87	0.0088	0.0009
Earth	20072-12-08 06:14 G	9052549.51	9052549.76	9052550.02	0.0088	0.0011 *
Mercury	20072-12-19 21:36 G	9052561.28	9052561.40	9052561.54	0.0088	0.0050
Mercury	20073-03-17 23:31 G	9052649.38	9052649.48	9052649.61	0.0088	0.0058
Mercury	20073-06-14 01:40 G	9052737.48	9052737.57	9052737.68	0.0088	0.0065
Mercury	20073-09-10 03:36 G	9052825.58	9052825.65	9052825.75	0.0088	0.0073
Mercury	20073-12-07 05:31 G	9052913.69	9052913.73	9052913.81	0.0088	0.0081
Earth	20073-12-10 16:19 G	9052916.94	9052917.18	9052917.44	0.0088	0.0012
Moon	20073-12-10 19:55 G	9052917.07	9052917.33	9052917.59	0.0088	0.0013 *
Moon	20074-12-12 23:45 G	9053284.24	9053284.49	9053284.74	0.0088	0.0012
Earth	20074-12-13 02:38 G	9053284.36	9053284.61	9053284.87	0.0088	0.0013 *
Earth	20075-12-15 12:43 G	9053651.78	9053652.03	9053652.29	0.0088	0.0014
Moon	20075-12-15 14:52 G	9053651.86	9053652.12	9053652.38	0.0088	0.0015 *
Moon	20076-12-16 22:04 G	9054019.18	9054019.42	9054019.67	0.0088	0.0014
Earth	20076-12-16 22:48 G	9054019.20	9054019.45	9054019.71	0.0088	0.0015 *
Moon	20077-12-19 08:52 G	9054386.61	9054386.87	9054387.13	0.0088	0.0016
Earth	20077-12-19 08:52 G	9054386.62	9054386.87	9054387.13	0.0088	0.0016 *
Earth	20078-12-21 18:57 G	9054754.04	9054754.29	9054754.55	0.0088	0.0017
Moon	20078-12-21 20:38 G	9054754.13	9054754.36	9054754.62	0.0088	0.0016 *
Moon	20079-12-24 02:09 G	9055121.34	9055121.59	9055121.85	0.0088	0.0019
Earth	20079-12-24 04:48 G	9055121.46	9055121.70	9055121.97	0.0088	0.0018 *
Earth	20080-12-25 14:52 G	9055488.88	9055489.12	9055489.38	0.0088	0.0019
Moon	20080-12-25 18:14 G	9055489.02	9055489.26	9055489.51	0.0088	0.0018 *
Moon	20081-12-27 21:21 G	9055856.15	9055856.39	9055856.65	0.0088	0.0021
Earth	20081-12-28 00:57 G	9055856.31	9055856.54	9055856.81	0.0088	0.0020 *
Earth	20082-12-30 11:16 G	9056223.73	9056223.97	9056224.23	0.0088	0.0020
Moon	20082-12-30 14:24 G	9056223.85	9056224.10	9056224.36	0.0088	0.0020 *
Jupiter	20083-12-03 12:43 G	9056561.64	9056562.03	9056562.52	0.0088	0.0056
Moon	20084-01-01 18:43 G	9056591.04	9056591.28	9056591.53	0.0088	0.0021
Earth	20084-01-01 21:36 G	9056591.15	9056591.40	9056591.65	0.0088	0.0021 *



Earth	20085-01-03 07:26 G	9056958.57	9056958.81	9056959.07	0.0088	0.0022
Moon	20085-01-03 09:07 G	9056958.63	9056958.88	9056959.14	0.0088	0.0021 *
Moon	20086-01-05 17:45 G	9057326.00	9057326.24	9057326.48	0.0088	0.0023
Earth	20086-01-05 17:31 G	9057326.00	9057326.23	9057326.50	0.0088	0.0023 *
Moon	20087-01-08 03:21 G	9057693.39	9057693.64	9057693.90	0.0088	0.0023
Earth	20087-01-08 04:04 G	9057693.42	9057693.67	9057693.92	0.0088	0.0023 *
Earth	20088-01-10 13:55 G	9058060.84	9058061.08	9058061.33	0.0088	0.0024
Moon	20088-01-10 16:04 G	9058060.94	9058061.17	9058061.42	0.0088	0.0025 *
Moon	20089-01-11 20:38 G	9058428.13	9058428.36	9058428.63	0.0088	0.0024
Earth	20089-01-11 23:45 G	9058428.26	9058428.49	9058428.76	0.0088	0.0025 *
Earth	20090-01-14 10:04 G	9058795.68	9058795.92	9058796.17	0.0088	0.0025
Moon	20090-01-14 13:26 G	9058795.82	9058796.06	9058796.31	0.0088	0.0025 *
Moon	20091-01-16 16:33 G	9059162.95	9059163.19	9059163.44	0.0088	0.0025
Earth	20091-01-16 20:09 G	9059163.10	9059163.34	9059163.60	0.0088	0.0026 *
Earth	20092-01-19 06:14 G	9059530.52	9059530.76	9059531.01	0.0088	0.0026
Moon	20092-01-19 09:21 G	9059530.64	9059530.89	9059531.14	0.0088	0.0026 *
Moon	20093-01-20 13:55 G	9059897.85	9059898.08	9059898.33	0.0088	0.0027
Earth	20093-01-20 16:19 G	9059897.95	9059898.18	9059898.44	0.0088	0.0027 *
Earth	20094-01-23 02:38 G	9060265.37	9060265.61	9060265.86	0.0088	0.0027
Moon	20094-01-23 03:50 G	9060265.41	9060265.66	9060265.92	0.0088	0.0027 *
Earth	20095-01-25 12:43 G	9060632.80	9060633.03	9060633.29	0.0088	0.0028
Moon	20095-01-25 12:57 G	9060632.83	9060633.04	9060633.30	0.0088	0.0028 *
Moon	20096-01-27 21:50 G	9061000.18	9061000.41	9061000.68	0.0088	0.0028
Earth	20096-01-27 23:16 G	9061000.23	9061000.47	9061000.72	0.0088	0.0028 *
Earth	20097-01-29 09:50 G	9061367.67	9061367.91	9061368.15	0.0088	0.0028
Moon	20097-01-29 12:28 G	9061367.78	9061368.02	9061368.26	0.0088	0.0028 *
Moon	20098-01-31 16:48 G	9061734.97	9061735.20	9061735.46	0.0088	0.0029
Earth	20098-01-31 19:55 G	9061735.11	9061735.33	9061735.59	0.0088	0.0029 *
Earth	20099-02-03 06:28 G	9062102.53	9062102.77	9062103.02	0.0088	0.0029
Moon	20099-02-03 09:50 G	9062102.68	9062102.91	9062103.17	0.0088	0.0030 *

Moon	20100-02-05 13:26 G	9062469.83	9062470.06	9062470.31	0.0088	0.0029
Earth	20100-02-05 17:02 G	9062469.97	9062470.21	9062470.46	0.0088	0.0029 *
Earth	20101-02-08 03:21 G	9062837.40	9062837.64	9062837.89	0.0088	0.0029
Moon	20101-02-08 06:00 G	9062837.51	9062837.75	9062838.01	0.0088	0.0030 *
Moon	20102-02-10 11:45 G	9063204.76	9063204.99	9063205.23	0.0088	0.0028
Earth	20102-02-10 13:55 G	9063204.84	9063205.08	9063205.33	0.0088	0.0029 *
Earth	20103-02-13 00:28 G	9063572.28	9063572.52	9063572.77	0.0088	0.0029
Moon	20103-02-13 00:43 G	9063572.30	9063572.53	9063572.80	0.0088	0.0030 *
Earth	20104-02-15 10:48 G	9063939.71	9063939.95	9063940.20	0.0088	0.0029
Moon	20104-02-15 11:31 G	9063939.75	9063939.98	9063940.22	0.0088	0.0029 *
Moon	20105-02-16 19:55 G	9064307.09	9064307.33	9064307.59	0.0088	0.0030
Earth	20105-02-16 21:36 G	9064307.16	9064307.40	9064307.64	0.0088	0.0029 *
Earth	20106-02-19 08:09 G	9064674.60	9064674.84	9064675.09	0.0088	0.0029
Moon	20106-02-19 10:48 G	9064674.73	9064674.95	9064675.20	0.0088	0.0029 *
Moon	20107-02-21 15:07 G	9065041.90	9065042.13	9065042.39	0.0088	0.0030
Earth	20107-02-21 18:43 G	9065042.04	9065042.28	9065042.53	0.0088	0.0029 *
Earth	20108-02-24 05:16 G	9065409.49	9065409.72	9065409.98	0.0088	0.0029
Moon	20108-02-24 09:07 G	9065409.64	9065409.88	9065410.13	0.0088	0.0027 *
Moon	20109-02-25 12:43 G	9065776.81	9065777.03	9065777.29	0.0088	0.0030
Earth	20109-02-25 16:19 G	9065776.95	9065777.18	9065777.44	0.0088	0.0029 *
Earth	20110-02-28 03:07 G	9066144.40	9066144.63	9066144.89	0.0088	0.0029
Moon	20110-02-28 06:00 G	9066144.50	9066144.75	9066145.00	0.0088	0.0027 *
Moon	20111-03-02 12:14 G	9066511.79	9066512.01	9066512.26	0.0088	0.0030
Earth	20111-03-02 14:24 G	9066511.86	9066512.10	9066512.35	0.0088	0.0028 *
Earth	20112-03-04 01:12 G	9066879.31	9066879.55	9066879.80	0.0088	0.0028
Moon	20112-03-04 01:12 G	9066879.32	9066879.55	9066879.82	0.0088	0.0027 *
Earth	20113-03-06 12:28 G	9067246.77	9067247.02	9067247.26	0.0088	0.0027
Moon	20113-03-06 12:57 G	9067246.82	9067247.04	9067247.29	0.0088	0.0029 *
Moon	20114-03-08 21:36 G	9067614.15	9067614.40	9067614.66	0.0088	0.0025
Earth	20114-03-08 23:16 G	9067614.23	9067614.47	9067614.73	0.0088	0.0027 *

Earth	20115-03-11 10:04 G	9067981.69	9067981.92	9067982.18	0.0088	0.0027
Moon	20115-03-11 13:12 G	9067981.82	9067982.05	9067982.30	0.0088	0.0028 *
Moon	20116-03-12 17:45 G	9068349.01	9068349.24	9068349.51	0.0088	0.0025
Earth	20116-03-12 21:21 G	9068349.15	9068349.39	9068349.65	0.0088	0.0026 *
Earth	20117-03-15 08:38 G	9068716.61	9068716.86	9068717.11	0.0088	0.0026
Moon	20117-03-15 12:00 G	9068716.77	9068717.00	9068717.26	0.0088	0.0028 *
Moon	20118-03-17 16:33 G	9069083.95	9069084.19	9069084.44	0.0088	0.0023
Earth	20118-03-17 19:40 G	9069084.08	9069084.32	9069084.58	0.0088	0.0025 *
Mars	20118-04-15 18:14 G	9069112.96	9069113.26	9069113.57	0.0088	0.0033
Earth	20119-03-20 06:57 G	9069451.55	9069451.79	9069452.04	0.0088	0.0024
Moon	20119-03-20 09:21 G	9069451.65	9069451.89	9069452.15	0.0088	0.0027 *
Mars	20120-03-11 09:07 G	9069808.63	9069808.88	9069809.17	0.0088	0.0051
Moon	20120-03-21 16:33 G	9069818.95	9069819.19	9069819.44	0.0088	0.0021
Earth	20120-03-21 18:00 G	9069819.02	9069819.25	9069819.52	0.0088	0.0025 *
Moon	20121-03-24 05:45 G	9070186.49	9070186.74	9070187.01	0.0088	0.0025
Earth	20121-03-24 05:45 G	9070186.50	9070186.74	9070187.00	0.0088	0.0023 *
Earth	20122-03-26 17:16 G	9070553.98	9070554.22	9070554.48	0.0088	0.0023
Moon	20122-03-26 18:28 G	9070554.03	9070554.27	9070554.52	0.0088	0.0020 *
Moon	20123-03-29 02:52 G	9070921.37	9070921.62	9070921.89	0.0088	0.0024
Earth	20123-03-29 05:02 G	9070921.46	9070921.71	9070921.96	0.0088	0.0022 *
Earth	20124-03-30 16:19 G	9071288.95	9071289.18	9071289.45	0.0088	0.0022
Moon	20124-03-30 19:55 G	9071289.08	9071289.33	9071289.58	0.0088	0.0019 *
Moon	20125-04-02 00:57 G	9071656.30	9071656.54	9071656.80	0.0088	0.0022
Earth	20125-04-02 04:19 G	9071656.44	9071656.68	9071656.94	0.0088	0.0020 *
Earth	20126-04-04 15:50 G	9072023.92	9072024.16	9072024.43	0.0088	0.0020
Moon	20126-04-04 19:55 G	9072024.07	9072024.33	9072024.58	0.0088	0.0016 *
Moon	20127-04-07 00:28 G	9072391.29	9072391.52	9072391.78	0.0088	0.0021
Earth	20127-04-07 03:50 G	9072391.41	9072391.66	9072391.92	0.0088	0.0018 *
Earth	20128-04-08 15:36 G	9072758.90	9072759.15	9072759.41	0.0088	0.0017
Moon	20128-04-08 18:00 G	9072759.00	9072759.25	9072759.52	0.0088	0.0015 *

Moon	20129-04-11 01:55 G	9073126.34	9073126.58	9073126.83	0.0088	0.0020
Earth	20129-04-11 03:21 G	9073126.40	9073126.64	9073126.91	0.0088	0.0017 *
Moon	20130-04-13 15:21 G	9073493.88	9073494.14	9073494.41	0.0088	0.0013
Earth	20130-04-13 15:21 G	9073493.89	9073494.14	9073494.40	0.0088	0.0016 *
Earth	20131-04-16 03:07 G	9073861.39	9073861.63	9073861.90	0.0089	0.0015
Moon	20131-04-16 04:04 G	9073861.44	9073861.67	9073861.93	0.0089	0.0018 *
Moon	20132-04-17 13:40 G	9074228.80	9074229.07	9074229.33	0.0089	0.0010
Earth	20132-04-17 15:21 G	9074228.89	9074229.14	9074229.41	0.0089	0.0014 *
Earth	20133-04-20 03:36 G	9074596.40	9074596.65	9074596.91	0.0089	0.0013
Moon	20133-04-20 06:43 G	9074596.54	9074596.78	9074597.04	0.0089	0.0016 *
Moon	20134-04-22 12:43 G	9074963.77	9074964.03	9074964.29	0.0089	0.0008
Earth	20134-04-22 15:50 G	9074963.91	9074964.16	9074964.43	0.0089	0.0012 *
Earth	20135-04-25 04:04 G	9075331.42	9075331.67	9075331.94	0.0089	0.0011
Moon	20135-04-25 07:55 G	9075331.58	9075331.83	9075332.09	0.0089	0.0015 *
Moon	20136-04-26 13:40 G	9075698.82	9075699.07	9075699.33	0.0089	0.0006
Earth	20136-04-26 16:48 G	9075698.95	9075699.20	9075699.46	0.0089	0.0009 *
Earth	20137-04-29 05:16 G	9076066.47	9076066.72	9076066.98	0.0089	0.0008
Moon	20137-04-29 07:55 G	9076066.57	9076066.83	9076067.10	0.0089	0.0012 *
Moon	20138-05-01 16:04 G	9076433.92	9076434.17	9076434.42	0.0089	0.0003
Earth	20138-05-01 17:45 G	9076433.99	9076434.24	9076434.50	0.0089	0.0007 *
Earth	20139-05-04 06:14 G	9076801.50	9076801.76	9076802.02	0.0089	0.0006
Moon	20139-05-04 06:14 G	9076801.50	9076801.76	9076802.03	0.0089	0.0009 *
Earth	20140-05-05 18:43 G	9077169.02	9077169.28	9077169.54	0.0089	0.0005
Moon	20140-05-05 19:26 G	9077169.06	9077169.31	9077169.56	0.0089	0.0001 *
Moon	20141-05-08 05:31 G	9077536.47	9077536.73	9077537.00	0.0089	0.0008
Earth	20141-05-08 07:26 G	9077536.55	9077536.81	9077537.07	0.0089	0.0003 *
Earth	20142-05-10 19:55 G	9077904.07	9077904.33	9077904.59	0.0089	0.0002
Moon	20142-05-10 22:48 G	9077904.20	9077904.45	9077904.71	0.0089	0.0002 *
Moon	20143-05-13 05:16 G	9078271.46	9078271.72	9078271.98	0.0089	0.0005
Earth	20143-05-13 08:38 G	9078271.60	9078271.86	9078272.12	0.0089	0.0001 *

Venus	20144-01-19 00:14 G	9078522.41	9078522.51	9078522.66	0.0089	0.0074
Earth	20144-05-14 21:07 G	9078639.13	9078639.38	9078639.65	0.0089	0.0002
Moon	20144-05-15 00:57 G	9078639.28	9078639.54	9078639.80	0.0089	0.0005 *
Venus	20144-08-31 13:55 G	9078747.91	9078748.08	9078748.26	0.0089	0.0053
Venus	20145-04-14 03:07 G	9078973.43	9078973.63	9078973.84	0.0089	0.0033
Moon	20145-05-17 06:57 G	9079006.53	9079006.79	9079007.04	0.0089	0.0003
Earth	20145-05-17 10:04 G	9079006.66	9079006.92	9079007.18	0.0089	0.0002 *
Venus	20145-11-25 16:19 G	9079198.97	9079199.18	9079199.40	0.0089	0.0013
Earth	20146-05-19 22:48 G	9079374.20	9079374.45	9079374.71	0.0089	0.0003
Moon	20146-05-20 01:40 G	9079374.31	9079374.57	9079374.84	0.0089	0.0007 *
Venus	20146-07-09 05:31 G	9079424.52	9079424.73	9079424.96	0.0089	0.0007
Venus	20147-02-19 18:57 G	9079650.08	9079650.29	9079650.50	0.0089	0.0027
Moon	20147-05-22 09:50 G	9079741.66	9079741.91	9079742.16	0.0089	0.0001
Earth	20147-05-22 11:45 G	9079741.74	9079741.99	9079742.25	0.0089	0.0004 *
Venus	20147-10-03 08:09 G	9079875.66	9079875.84	9079876.03	0.0089	0.0047
Venus	20148-05-15 20:52 G	9080101.25	9080101.37	9080101.53	0.0089	0.0068
Earth	20148-05-24 00:57 G	9080109.28	9080109.54	9080109.80	0.0089	0.0005
Moon	20148-05-24 01:26 G	9080109.29	9080109.56	9080109.82	0.0089	0.0009 *
Venus	20148-12-27 10:04 G	9080326.91	9080326.92	9080326.98	0.0089	0.0088
Earth	20149-05-26 13:55 G	9080476.83	9080477.08	9080477.34	0.0089	0.0007
Moon	20149-05-26 14:24 G	9080476.85	9080477.10	9080477.35	0.0089	0.0002 *
Moon	20150-05-29 01:12 G	9080844.29	9080844.55	9080844.82	0.0089	0.0012
Earth	20150-05-29 02:52 G	9080844.36	9080844.62	9080844.88	0.0089	0.0008 *
Earth	20151-05-31 15:50 G	9081211.91	9081212.16	9081212.42	0.0089	0.0009
Moon	20151-05-31 18:43 G	9081212.03	9081212.28	9081212.54	0.0089	0.0004 *
Mercury	20152-02-12 03:21 G	9081468.60	9081468.64	9081468.67	0.0089	0.0087
Mercury	20152-05-10 05:31 G	9081556.66	9081556.73	9081556.82	0.0089	0.0078
Moon	20152-06-02 01:40 G	9081579.32	9081579.57	9081579.84	0.0089	0.0015
Earth	20152-06-02 04:48 G	9081579.45	9081579.70	9081579.97	0.0089	0.0011 *
Mercury	20152-08-06 08:09 G	9081644.74	9081644.84	9081644.94	0.0089	0.0069

Mercury	20152-11-02 10:19 G	9081732.82	9081732.93	9081733.06	0.0089	0.0061
Mercury	20153-01-29 12:57 G	9081820.91	9081821.04	9081821.18	0.0089	0.0052
Mercury	20153-04-27 15:07 G	9081909.00	9081909.13	9081909.29	0.0089	0.0045
Earth	20153-06-04 17:45 G	9081946.99	9081947.24	9081947.51	0.0089	0.0011
Moon	20153-06-04 21:36 G	9081947.15	9081947.40	9081947.66	0.0089	0.0006 *
Mercury	20153-07-24 17:45 G	9081997.10	9081997.24	9081997.40	0.0089	0.0035
Mercury	20153-10-20 20:09 G	9082085.19	9082085.34	9082085.50	0.0089	0.0027
Mercury	20154-01-16 22:33 G	9082173.29	9082173.44	9082173.61	0.0089	0.0019
Mercury	20154-04-15 00:57 G	9082261.38	9082261.54	9082261.71	0.0089	0.0010
Moon	20154-06-07 03:36 G	9082314.40	9082314.65	9082314.91	0.0089	0.0017
Earth	20154-06-07 06:43 G	9082314.54	9082314.78	9082315.05	0.0089	0.0013 *
Mercury	20154-07-12 03:21 G	9082349.48	9082349.64	9082349.80	0.0089	0.0002
Mercury	20154-10-08 05:45 G	9082437.58	9082437.74	9082437.90	0.0089	0.0007
Mercury	20155-01-04 07:55 G	9082525.68	9082525.83	9082526.00	0.0089	0.0016
Mercury	20155-04-02 10:19 G	9082613.78	9082613.93	9082614.09	0.0089	0.0024
Earth	20155-06-09 19:40 G	9082682.07	9082682.32	9082682.59	0.0089	0.0014
Moon	20155-06-09 22:48 G	9082682.20	9082682.45	9082682.72	0.0089	0.0009 *
Mercury	20155-06-29 12:43 G	9082701.88	9082702.03	9082702.18	0.0089	0.0032
Mercury	20155-09-25 14:52 G	9082789.98	9082790.12	9082790.27	0.0089	0.0040
Mercury	20155-12-22 17:02 G	9082878.09	9082878.21	9082878.36	0.0089	0.0049
Mercury	20156-03-19 19:26 G	9082966.19	9082966.31	9082966.44	0.0089	0.0057
Moon	20156-06-11 06:28 G	9083049.54	9083049.77	9083050.03	0.0089	0.0020
Earth	20156-06-11 08:52 G	9083049.62	9083049.87	9083050.13	0.0089	0.0014 *
Mercury	20156-06-15 21:50 G	9083054.30	9083054.41	9083054.52	0.0089	0.0065
Mercury	20156-09-12 00:00 G	9083142.42	9083142.50	9083142.60	0.0089	0.0073
Mercury	20156-12-09 02:24 G	9083230.54	9083230.60	9083230.67	0.0089	0.0081
Mercury	20157-03-07 04:33 G	9083318.68	9083318.69	9083318.71	0.0089	0.0089
Earth	20157-06-13 22:04 G	9083417.17	9083417.42	9083417.68	0.0089	0.0015
Moon	20157-06-13 22:48 G	9083417.19	9083417.45	9083417.72	0.0089	0.0011 *
Earth	20158-06-16 11:02 G	9083784.71	9083784.96	9083785.22	0.0089	0.0016

Moon	20158-06-16 11:02 G	9083784.72	9083784.96	9083785.21	0.0089	0.0020	*
Moon	20159-06-18 23:02 G	9084152.20	9084152.46	9084152.73	0.0089	0.0013	
Earth	20159-06-19 00:14 G	9084152.27	9084152.51	9084152.78	0.0089	0.0018	*
Earth	20160-06-20 13:40 G	9084519.82	9084520.07	9084520.33	0.0089	0.0018	
Moon	20160-06-20 16:19 G	9084519.94	9084520.18	9084520.43	0.0089	0.0023	*
Moon	20161-06-23 00:00 G	9084887.25	9084887.50	9084887.77	0.0089	0.0015	
Earth	20161-06-23 02:52 G	9084887.38	9084887.62	9084887.89	0.0089	0.0020	*
Earth	20162-06-25 16:04 G	9085254.93	9085255.17	9085255.44	0.0089	0.0021	
Moon	20162-06-25 19:55 G	9085255.09	9085255.33	9085255.59	0.0089	0.0025	*
Moon	20163-06-28 02:24 G	9085622.35	9085622.60	9085622.85	0.0089	0.0017	
Earth	20163-06-28 05:31 G	9085622.49	9085622.73	9085622.99	0.0089	0.0022	*
Earth	20164-06-29 18:57 G	9085990.04	9085990.29	9085990.54	0.0090	0.0022	
Moon	20164-06-29 22:04 G	9085990.18	9085990.42	9085990.68	0.0090	0.0026	*
Moon	20165-07-02 05:45 G	9086357.50	9086357.74	9086357.99	0.0090	0.0019	
Earth	20165-07-02 08:09 G	9086357.60	9086357.84	9086358.10	0.0090	0.0023	*
Earth	20166-07-04 21:07 G	9086725.14	9086725.38	9086725.64	0.0090	0.0024	
Moon	20166-07-04 22:04 G	9086725.19	9086725.42	9086725.70	0.0090	0.0028	*
Moon	20167-07-07 09:36 G	9087092.67	9087092.90	9087093.16	0.0090	0.0022	
Earth	20167-07-07 10:19 G	9087092.69	9087092.93	9087093.19	0.0090	0.0025	*
Moon	20168-07-08 22:33 G	9087460.20	9087460.44	9087460.70	0.0090	0.0029	
Earth	20168-07-08 23:45 G	9087460.24	9087460.49	9087460.74	0.0090	0.0025	*
Earth	20169-07-11 12:43 G	9087827.79	9087828.03	9087828.28	0.0090	0.0026	
Moon	20169-07-11 14:38 G	9087827.88	9087828.11	9087828.37	0.0090	0.0023	*
Moon	20170-07-13 23:02 G	9088195.23	9088195.46	9088195.73	0.0090	0.0030	
Earth	20170-07-14 01:55 G	9088195.34	9088195.58	9088195.84	0.0090	0.0026	*
Earth	20171-07-16 15:21 G	9088562.89	9088563.14	9088563.39	0.0090	0.0027	
Moon	20171-07-16 18:43 G	9088563.04	9088563.28	9088563.54	0.0090	0.0024	*
Moon	20172-07-18 01:12 G	9088930.31	9088930.55	9088930.79	0.0090	0.0031	
Earth	20172-07-18 04:33 G	9088930.45	9088930.69	9088930.94	0.0090	0.0028	*
Earth	20173-07-20 17:31 G	9089298.00	9089298.23	9089298.49	0.0090	0.0029	

Moon	20173-07-20 21:21 G	9089298.15	9089298.39	9089298.65	0.0090	0.0026 *
Moon	20174-07-23 04:19 G	9089665.45	9089665.68	9089665.93	0.0090	0.0032
Earth	20174-07-23 06:57 G	9089665.56	9089665.79	9089666.05	0.0090	0.0029 *
Earth	20175-07-25 20:24 G	9090033.11	9090033.35	9090033.60	0.0090	0.0029
Moon	20175-07-25 21:50 G	9090033.17	9090033.41	9090033.68	0.0090	0.0027 *
Moon	20176-07-27 08:24 G	9090400.63	9090400.85	9090401.10	0.0090	0.0032
Earth	20176-07-27 09:21 G	9090400.66	9090400.89	9090401.15	0.0090	0.0030 *
Moon	20177-07-29 22:04 G	9090768.16	9090768.42	9090768.67	0.0090	0.0027
Earth	20177-07-29 22:33 G	9090768.20	9090768.44	9090768.69	0.0090	0.0030 *
Earth	20178-08-01 11:31 G	9091135.75	9091135.98	9091136.23	0.0090	0.0030
Moon	20178-08-01 13:12 G	9091135.83	9091136.05	9091136.30	0.0090	0.0032 *
Moon	20179-08-03 22:04 G	9091503.18	9091503.42	9091503.68	0.0090	0.0029
Earth	20179-08-04 00:28 G	9091503.29	9091503.52	9091503.78	0.0090	0.0031 *
Earth	20180-08-05 13:26 G	9091870.83	9091871.06	9091871.31	0.0090	0.0030
Moon	20180-08-05 16:48 G	9091870.98	9091871.20	9091871.45	0.0090	0.0033 *
Moon	20181-08-07 23:02 G	9092238.22	9092238.46	9092238.71	0.0090	0.0029
Earth	20181-08-08 02:24 G	9092238.37	9092238.60	9092238.86	0.0090	0.0031 *
Earth	20182-08-10 15:07 G	9092605.90	9092606.13	9092606.39	0.0090	0.0031
Moon	20182-08-10 19:12 G	9092606.05	9092606.30	9092606.54	0.0090	0.0031 *
Moon	20183-08-13 01:40 G	9092973.33	9092973.57	9092973.81	0.0090	0.0029
Earth	20183-08-13 04:19 G	9092973.45	9092973.68	9092973.93	0.0090	0.0031 *
Earth	20184-08-14 17:02 G	9093340.98	9093341.21	9093341.47	0.0090	0.0031
Moon	20184-08-14 18:57 G	9093341.06	9093341.29	9093341.56	0.0090	0.0032 *
Moon	20185-08-17 05:02 G	9093708.47	9093708.71	9093708.94	0.0090	0.0030
Earth	20185-08-17 06:00 G	9093708.52	9093708.75	9093709.00	0.0090	0.0030 *
Moon	20186-08-19 18:14 G	9094076.03	9094076.26	9094076.53	0.0089	0.0032
Earth	20186-08-19 18:43 G	9094076.06	9094076.28	9094076.54	0.0089	0.0031 *
Earth	20187-08-22 07:40 G	9094443.59	9094443.82	9094444.08	0.0089	0.0030
Moon	20187-08-22 09:07 G	9094443.66	9094443.88	9094444.13	0.0089	0.0030 *
Moon	20188-08-23 18:14 G	9094811.02	9094811.26	9094811.52	0.0089	0.0030



Earth	20188-08-23 20:38 G	9094811.12	9094811.36	9094811.61	0.0089	0.0030 *
Earth	20189-08-26 09:07 G	9095178.64	9095178.88	9095179.13	0.0089	0.0030
Moon	20189-08-26 12:14 G	9095178.79	9095179.01	9095179.27	0.0089	0.0030 *
Moon	20190-08-28 18:14 G	9095546.02	9095546.26	9095546.51	0.0089	0.0029
Earth	20190-08-28 21:36 G	9095546.17	9095546.40	9095546.65	0.0089	0.0029 *
Earth	20191-08-31 10:04 G	9095913.68	9095913.92	9095914.17	0.0089	0.0029
Moon	20191-08-31 13:40 G	9095913.84	9095914.07	9095914.33	0.0089	0.0030 *
Moon	20192-09-01 19:26 G	9096281.09	9096281.31	9096281.56	0.0089	0.0029
Earth	20192-09-01 22:33 G	9096281.20	9096281.44	9096281.69	0.0089	0.0028 *
Earth	20193-09-04 10:48 G	9096648.71	9096648.95	9096649.20	0.0089	0.0028
Moon	20193-09-04 12:57 G	9096648.80	9096649.04	9096649.30	0.0089	0.0029 *
Moon	20194-09-06 21:36 G	9097016.17	9097016.40	9097016.65	0.0089	0.0027
Earth	20194-09-06 23:02 G	9097016.23	9097016.46	9097016.72	0.0089	0.0028 *
Moon	20195-09-09 11:02 G	9097383.72	9097383.96	9097384.23	0.0089	0.0027
Earth	20195-09-09 11:31 G	9097383.74	9097383.98	9097384.23	0.0089	0.0027 *
Earth	20196-09-10 23:31 G	9097751.25	9097751.48	9097751.74	0.0089	0.0026
Moon	20196-09-11 00:43 G	9097751.30	9097751.53	9097751.78	0.0089	0.0026 *
Moon	20197-09-13 09:36 G	9098118.66	9098118.90	9098119.16	0.0089	0.0027
Earth	20197-09-13 12:00 G	9098118.76	9098119.00	9098119.25	0.0089	0.0026 *
Earth	20198-09-16 00:00 G	9098486.27	9098486.50	9098486.76	0.0089	0.0025
Moon	20198-09-16 03:21 G	9098486.41	9098486.64	9098486.89	0.0089	0.0024 *
Moon	20199-09-18 09:07 G	9098853.64	9098853.88	9098854.13	0.0089	0.0025
Earth	20199-09-18 12:28 G	9098853.78	9098854.02	9098854.27	0.0089	0.0024 *
Mars	20200-01-02 09:50 G	9098959.62	9098959.91	9098960.21	0.0089	0.0013
Earth	20200-09-21 00:28 G	9099221.28	9099221.52	9099221.78	0.0089	0.0024
Moon	20200-09-21 04:19 G	9099221.43	9099221.68	9099221.93	0.0089	0.0021 *
Moon	20201-09-23 09:21 G	9099588.66	9099588.89	9099589.15	0.0089	0.0024
Earth	20201-09-23 12:14 G	9099588.78	9099589.01	9099589.28	0.0089	0.0023 *
Mars	20201-11-27 10:04 G	9099653.72	9099653.92	9099654.13	0.0089	0.0065
Earth	20202-09-26 00:14 G	9099956.27	9099956.51	9099956.77	0.0089	0.0022

Moon	20202-09-26 02:38 G	9099956.37	9099956.61	9099956.88	0.0089	0.0020	*
Moon	20203-09-28 10:48 G	9100323.71	9100323.95	9100324.20	0.0089	0.0023	
Earth	20203-09-28 12:14 G	9100323.77	9100324.01	9100324.27	0.0089	0.0021	*
Moon	20204-09-29 23:45 G	9100691.23	9100691.49	9100691.75	0.0089	0.0018	
Earth	20204-09-29 23:45 G	9100691.25	9100691.49	9100691.75	0.0089	0.0020	*
Earth	20205-10-02 11:31 G	9101058.74	9101058.98	9101059.24	0.0089	0.0019	
Moon	20205-10-02 12:28 G	9101058.79	9101059.02	9101059.27	0.0089	0.0021	*
Moon	20206-10-04 20:52 G	9101426.12	9101426.37	9101426.64	0.0089	0.0016	
Earth	20206-10-04 23:16 G	9101426.22	9101426.47	9101426.73	0.0089	0.0018	*
Earth	20207-10-07 10:48 G	9101793.70	9101793.95	9101794.21	0.0089	0.0017	
Moon	20207-10-07 14:09 G	9101793.84	9101794.09	9101794.34	0.0089	0.0019	*
Moon	20208-10-08 18:57 G	9102161.04	9102161.29	9102161.55	0.0089	0.0014	
Earth	20208-10-08 22:33 G	9102161.19	9102161.44	9102161.69	0.0089	0.0016	*
Earth	20209-10-11 09:50 G	9102528.66	9102528.91	9102529.17	0.0089	0.0015	
Moon	20209-10-11 13:26 G	9102528.82	9102529.06	9102529.32	0.0089	0.0019	*
Moon	20210-10-13 18:28 G	9102896.03	9102896.27	9102896.53	0.0089	0.0012	
Earth	20210-10-13 21:36 G	9102896.15	9102896.40	9102896.65	0.0089	0.0014	*
Earth	20211-10-16 09:07 G	9103263.62	9103263.88	9103264.13	0.0089	0.0013	
Moon	20211-10-16 11:31 G	9103263.72	9103263.98	9103264.24	0.0089	0.0016	*
Moon	20212-10-17 18:57 G	9103631.05	9103631.29	9103631.54	0.0089	0.0009	
Earth	20212-10-17 20:24 G	9103631.10	9103631.35	9103631.61	0.0089	0.0012	*
Moon	20213-10-20 07:12 G	9103998.55	9103998.80	9103999.07	0.0089	0.0014	
Earth	20213-10-20 07:40 G	9103998.57	9103998.82	9103999.08	0.0089	0.0011	*
Earth	20214-10-22 18:57 G	9104366.04	9104366.29	9104366.55	0.0089	0.0010	
Moon	20214-10-22 20:09 G	9104366.10	9104366.34	9104366.59	0.0089	0.0007	*
Moon	20215-10-25 03:50 G	9104733.40	9104733.66	9104733.92	0.0089	0.0012	
Earth	20215-10-25 06:14 G	9104733.50	9104733.76	9104734.02	0.0089	0.0009	*
Earth	20216-10-26 17:02 G	9105100.96	9105101.21	9105101.47	0.0089	0.0008	
Moon	20216-10-26 20:38 G	9105101.10	9105101.36	9105101.61	0.0089	0.0005	*
Moon	20217-10-29 00:43 G	9105468.28	9105468.53	9105468.79	0.0089	0.0010	

Earth	20217-10-29 04:04 G	9105468.42	9105468.67	9105468.93	0.0089	0.0007 *
Earth	20218-10-31 15:07 G	9105835.87	9105836.13	9105836.39	0.0089	0.0005
Moon	20218-10-31 18:43 G	9105836.03	9105836.28	9105836.54	0.0089	0.0002 *
Moon	20219-11-02 23:16 G	9106203.22	9106203.47	9106203.72	0.0089	0.0007
Earth	20219-11-03 02:09 G	9106203.33	9106203.59	9106203.84	0.0089	0.0004 *
Earth	20220-11-04 12:43 G	9106570.78	9106571.03	9106571.29	0.0088	0.0003
Moon	20220-11-04 15:07 G	9106570.86	9106571.13	9106571.39	0.0088	0.0001 *
Moon	20221-11-06 22:33 G	9106938.19	9106938.44	9106938.69	0.0088	0.0005
Earth	20221-11-06 23:31 G	9106938.23	9106938.48	9106938.74	0.0088	0.0002 *
Moon	20222-11-09 09:50 G	9107305.65	9107305.91	9107306.18	0.0088	0.0003
Earth	20222-11-09 10:33 G	9107305.68	9107305.94	9107306.19	0.0088	0.0001 *
Earth	20223-11-11 21:07 G	9107673.13	9107673.38	9107673.64	0.0088	0.0002
Moon	20223-11-11 22:33 G	9107673.19	9107673.44	9107673.69	0.0088	0.0003 *
Moon	20224-11-13 05:31 G	9108040.47	9108040.73	9108040.99	0.0088	0.0006
Earth	20224-11-13 07:55 G	9108040.58	9108040.83	9108041.09	0.0088	0.0003 *
Venus	20224-12-12 00:43 G	9108069.48	9108069.53	9108069.62	0.0088	0.0084
Venus	20225-07-25 13:26 G	9108294.93	9108295.06	9108295.23	0.0088	0.0065
Earth	20225-11-15 18:43 G	9108408.02	9108408.28	9108408.54	0.0088	0.0003
Moon	20225-11-15 22:04 G	9108408.17	9108408.42	9108408.67	0.0088	0.0000 *
Venus	20226-03-08 02:38 G	9108520.43	9108520.61	9108520.81	0.0088	0.0044
Venus	20226-10-19 15:36 G	9108745.94	9108746.15	9108746.36	0.0088	0.0025
Moon	20226-11-18 01:55 G	9108775.33	9108775.58	9108775.84	0.0088	0.0008
Earth	20226-11-18 05:16 G	9108775.47	9108775.72	9108775.98	0.0088	0.0005 *
Venus	20227-06-02 04:19 G	9108971.47	9108971.68	9108971.90	0.0088	0.0005
Earth	20227-11-20 15:50 G	9109142.91	9109143.16	9109143.42	0.0088	0.0006
Moon	20227-11-20 19:26 G	9109143.05	9109143.31	9109143.57	0.0088	0.0002 *
Venus	20228-01-13 17:16 G	9109197.00	9109197.22	9109197.43	0.0088	0.0015
Venus	20228-08-26 05:45 G	9109422.55	9109422.74	9109422.96	0.0088	0.0035
Moon	20228-11-21 23:45 G	9109510.24	9109510.49	9109510.74	0.0088	0.0010
Earth	20228-11-22 02:24 G	9109510.34	9109510.60	9109510.85	0.0088	0.0007 *

Venus	20229-04-08 18:14 G	9109648.11	9109648.26	9109648.46	0.0088	0.0055
Venus	20229-11-20 07:12 G	9109873.69	9109873.80	9109873.93	0.0088	0.0073
Earth	20229-11-24 12:28 G	9109877.77	9109878.02	9109878.28	0.0088	0.0008
Moon	20229-11-24 14:38 G	9109877.85	9109878.11	9109878.38	0.0088	0.0004 *
Moon	20230-11-26 22:04 G	9110245.19	9110245.42	9110245.68	0.0088	0.0014
Earth	20230-11-26 23:02 G	9110245.21	9110245.46	9110245.72	0.0088	0.0009 *
Moon	20231-11-29 08:24 G	9110612.58	9110612.85	9110613.11	0.0088	0.0006
Earth	20231-11-29 09:21 G	9110612.64	9110612.89	9110613.15	0.0088	0.0010 *
Earth	20232-11-30 19:26 G	9110980.07	9110980.31	9110980.57	0.0088	0.0011
Moon	20232-11-30 21:07 G	9110980.14	9110980.38	9110980.63	0.0088	0.0015 *
Mercury	20233-05-16 09:50 G	9111146.88	9111146.91	9111146.96	0.0088	0.0084
Mercury	20233-08-12 11:31 G	9111234.92	9111234.98	9111235.06	0.0088	0.0077
Mercury	20233-11-08 13:40 G	9111322.98	9111323.07	9111323.16	0.0088	0.0070
Moon	20233-12-03 03:07 G	9111347.37	9111347.63	9111347.89	0.0088	0.0008
Earth	20233-12-03 06:00 G	9111347.50	9111347.75	9111348.01	0.0088	0.0012 *
Mercury	20234-02-04 15:21 G	9111411.04	9111411.14	9111411.25	0.0088	0.0062
Mercury	20234-05-03 17:02 G	9111499.11	9111499.21	9111499.34	0.0088	0.0055
Mercury	20234-07-30 18:57 G	9111587.18	9111587.29	9111587.43	0.0088	0.0048
Mercury	20234-10-26 20:52 G	9111675.25	9111675.37	9111675.51	0.0088	0.0041
Earth	20234-12-05 16:04 G	9111714.92	9111715.17	9111715.43	0.0088	0.0013
Moon	20234-12-05 19:26 G	9111715.07	9111715.31	9111715.57	0.0088	0.0017 *
Mercury	20235-01-22 22:48 G	9111763.32	9111763.45	9111763.60	0.0088	0.0033
Mercury	20235-04-21 00:57 G	9111851.39	9111851.54	9111851.68	0.0088	0.0025
Mercury	20235-07-18 02:38 G	9111939.47	9111939.61	9111939.77	0.0088	0.0018
Mercury	20235-10-14 04:48 G	9112027.55	9112027.70	9112027.85	0.0088	0.0010
Moon	20235-12-07 23:02 G	9112082.21	9112082.46	9112082.72	0.0088	0.0010
Earth	20235-12-08 02:38 G	9112082.36	9112082.61	9112082.86	0.0088	0.0014 *
Mercury	20236-01-10 06:43 G	9112115.62	9112115.78	9112115.93	0.0088	0.0003
Mercury	20236-04-07 08:38 G	9112203.70	9112203.86	9112204.01	0.0088	0.0005
Mercury	20236-07-04 10:33 G	9112291.79	9112291.94	9112292.09	0.0088	0.0012

Mercury	20236-09-30 12:28 G	9112379.87	9112380.02	9112380.17	0.0088	0.0020
Earth	20236-12-09 12:43 G	9112449.78	9112450.03	9112450.29	0.0088	0.0015
Moon	20236-12-09 16:04 G	9112449.93	9112450.17	9112450.43	0.0088	0.0020 *
Mercury	20236-12-27 14:09 G	9112467.96	9112468.09	9112468.25	0.0088	0.0028
Mercury	20237-03-25 16:19 G	9112556.04	9112556.18	9112556.32	0.0088	0.0035
Mercury	20237-06-21 18:14 G	9112644.13	9112644.26	9112644.40	0.0088	0.0043
Mercury	20237-09-17 20:09 G	9112732.22	9112732.34	9112732.47	0.0088	0.0051
Moon	20237-12-11 21:07 G	9112817.13	9112817.38	9112817.63	0.0088	0.0012
Earth	20237-12-11 23:16 G	9112817.22	9112817.47	9112817.72	0.0088	0.0016 *
Mercury	20237-12-14 22:19 G	9112820.32	9112820.43	9112820.55	0.0088	0.0058
Mercury	20238-03-13 00:14 G	9112908.41	9112908.51	9112908.61	0.0088	0.0066
Mercury	20238-06-09 02:09 G	9112996.52	9112996.59	9112996.68	0.0088	0.0074
Mercury	20238-09-05 04:04 G	9113084.63	9113084.67	9113084.74	0.0088	0.0082
Earth	20238-12-14 09:21 G	9113184.65	9113184.89	9113185.15	0.0088	0.0017
Moon	20238-12-14 11:02 G	9113184.71	9113184.96	9113185.23	0.0088	0.0021 *
Earth	20239-12-16 19:40 G	9113552.07	9113552.32	9113552.57	0.0088	0.0018
Moon	20239-12-16 19:26 G	9113552.07	9113552.31	9113552.56	0.0088	0.0014 *
Moon	20240-12-18 04:04 G	9113919.43	9113919.67	9113919.94	0.0088	0.0023
Earth	20240-12-18 05:45 G	9113919.50	9113919.74	9113920.00	0.0088	0.0019 *
Earth	20241-12-20 15:50 G	9114286.92	9114287.16	9114287.42	0.0088	0.0020
Moon	20241-12-20 18:00 G	9114287.01	9114287.25	9114287.50	0.0088	0.0016 *
Moon	20242-12-22 22:48 G	9114654.21	9114654.45	9114654.71	0.0088	0.0025
Earth	20242-12-23 01:55 G	9114654.34	9114654.58	9114654.84	0.0088	0.0021 *
Earth	20243-12-25 12:00 G	9115021.76	9115022.00	9115022.26	0.0088	0.0022
Moon	20243-12-25 15:36 G	9115021.91	9115022.15	9115022.41	0.0088	0.0018 *
Moon	20244-12-26 18:43 G	9115389.04	9115389.28	9115389.53	0.0088	0.0027
Earth	20244-12-26 22:04 G	9115389.18	9115389.42	9115389.68	0.0088	0.0023 *
Earth	20245-12-29 08:24 G	9115756.60	9115756.85	9115757.10	0.0088	0.0023
Moon	20245-12-29 11:31 G	9115756.73	9115756.98	9115757.24	0.0088	0.0019 *
Moon	20246-12-31 16:33 G	9116123.96	9116124.19	9116124.44	0.0088	0.0028

Earth	20246-12-31 18:28 G	9116124.03	9116124.27	9116124.52	0.0088	0.0024	*
Earth	20248-01-03 04:19 G	9116491.45	9116491.68	9116491.94	0.0088	0.0025	
Moon	20248-01-03 05:31 G	9116491.48	9116491.73	9116492.00	0.0088	0.0021	*
Earth	20249-01-04 14:52 G	9116858.87	9116859.12	9116859.37	0.0088	0.0025	
Moon	20249-01-04 14:52 G	9116858.90	9116859.12	9116859.36	0.0088	0.0030	*
Moon	20250-01-06 23:02 G	9117226.21	9117226.46	9117226.73	0.0088	0.0022	
Earth	20250-01-07 00:57 G	9117226.30	9117226.54	9117226.79	0.0088	0.0026	*
Earth	20251-01-09 11:02 G	9117593.72	9117593.96	9117594.21	0.0088	0.0027	
Moon	20251-01-09 13:26 G	9117593.83	9117594.06	9117594.30	0.0088	0.0031	*
Moon	20252-01-11 17:45 G	9117961.00	9117961.24	9117961.50	0.0088	0.0023	
Earth	20252-01-11 21:36 G	9117961.15	9117961.40	9117961.64	0.0088	0.0027	*
Earth	20253-01-13 07:12 G	9118328.57	9118328.80	9118329.06	0.0088	0.0028	
Moon	20253-01-13 11:02 G	9118328.73	9118328.96	9118329.21	0.0088	0.0032	*
Moon	20254-01-15 14:09 G	9118695.86	9118696.09	9118696.35	0.0088	0.0024	
Earth	20254-01-15 17:45 G	9118696.00	9118696.24	9118696.49	0.0088	0.0028	*
Earth	20255-01-18 03:36 G	9119063.42	9119063.65	9119063.91	0.0088	0.0029	
Moon	20255-01-18 06:43 G	9119063.54	9119063.78	9119064.03	0.0088	0.0033	*
Moon	20256-01-20 12:28 G	9119430.79	9119431.02	9119431.26	0.0088	0.0025	
Earth	20256-01-20 13:55 G	9119430.84	9119431.08	9119431.33	0.0088	0.0029	*
Earth	20257-01-22 00:00 G	9119798.27	9119798.50	9119798.75	0.0088	0.0029	
Moon	20257-01-22 00:57 G	9119798.29	9119798.54	9119798.79	0.0088	0.0033	*
Earth	20258-01-24 10:04 G	9120165.69	9120165.92	9120166.17	0.0088	0.0030	
Moon	20258-01-24 11:02 G	9120165.72	9120165.96	9120166.20	0.0088	0.0025	*
Moon	20259-01-26 17:45 G	9120533.01	9120533.24	9120533.50	0.0088	0.0034	
Earth	20259-01-26 20:09 G	9120533.11	9120533.34	9120533.59	0.0088	0.0030	*
Earth	20260-01-29 06:28 G	9120900.53	9120900.77	9120901.02	0.0088	0.0030	
Moon	20260-01-29 09:07 G	9120900.65	9120900.88	9120901.13	0.0088	0.0026	*
Moon	20261-01-30 13:12 G	9121267.82	9121268.05	9121268.30	0.0088	0.0035	
Earth	20261-01-30 16:48 G	9121267.97	9121268.20	9121268.45	0.0088	0.0030	*
Earth	20262-02-02 02:52 G	9121635.40	9121635.62	9121635.88	0.0088	0.0031	

Moon	20262-02-02 06:28 G	9121635.53	9121635.77	9121636.03	0.0088	0.0026	*
Moon	20263-02-04 10:19 G	9122002.71	9122002.93	9122003.17	0.0088	0.0035	
Earth	20263-02-04 13:26 G	9122002.83	9122003.06	9122003.32	0.0088	0.0031	*
Earth	20264-02-06 23:45 G	9122370.26	9122370.49	9122370.74	0.0088	0.0031	
Moon	20264-02-07 02:24 G	9122370.36	9122370.60	9122370.87	0.0088	0.0026	*
Moon	20265-02-08 09:07 G	9122737.67	9122737.88	9122738.13	0.0088	0.0035	
Earth	20265-02-08 10:33 G	9122737.70	9122737.94	9122738.18	0.0088	0.0030	*
Earth	20266-02-10 20:38 G	9123105.14	9123105.36	9123105.62	0.0088	0.0031	
Moon	20266-02-10 21:21 G	9123105.14	9123105.39	9123105.65	0.0088	0.0026	*
Earth	20267-02-13 07:12 G	9123472.56	9123472.80	9123473.05	0.0088	0.0030	
Moon	20267-02-13 08:09 G	9123472.63	9123472.84	9123473.08	0.0088	0.0035	*
Moon	20268-02-15 14:52 G	9123839.88	9123840.12	9123840.39	0.0088	0.0026	
Earth	20268-02-15 17:45 G	9123840.00	9123840.24	9123840.49	0.0088	0.0030	*
Earth	20269-02-17 04:04 G	9124207.44	9124207.67	9124207.92	0.0088	0.0030	
Moon	20269-02-17 07:12 G	9124207.57	9124207.80	9124208.03	0.0088	0.0034	*
Moon	20270-02-19 10:48 G	9124574.72	9124574.95	9124575.21	0.0088	0.0025	
Earth	20270-02-19 14:24 G	9124574.88	9124575.10	9124575.36	0.0088	0.0030	*
Earth	20271-02-22 01:12 G	9124942.31	9124942.55	9124942.80	0.0088	0.0029	
Moon	20271-02-22 04:19 G	9124942.46	9124942.68	9124942.94	0.0088	0.0034	*
Moon	20272-02-24 08:38 G	9125309.63	9125309.86	9125310.12	0.0088	0.0025	
Earth	20272-02-24 11:45 G	9125309.76	9125309.99	9125310.24	0.0088	0.0029	*
Earth	20273-02-25 22:19 G	9125677.20	9125677.43	9125677.69	0.0088	0.0029	
Moon	20273-02-26 00:57 G	9125677.30	9125677.54	9125677.79	0.0088	0.0033	*
Moon	20274-02-28 08:38 G	9126044.63	9126044.86	9126045.11	0.0088	0.0024	
Earth	20274-02-28 09:36 G	9126044.65	9126044.90	9126045.14	0.0088	0.0028	*
Earth	20275-03-02 19:55 G	9126412.10	9126412.33	9126412.59	0.0088	0.0028	
Moon	20275-03-02 19:55 G	9126412.10	9126412.33	9126412.60	0.0088	0.0032	*
Earth	20276-03-04 07:12 G	9126779.56	9126779.80	9126780.05	0.0088	0.0027	
Moon	20276-03-04 08:38 G	9126779.63	9126779.86	9126780.11	0.0088	0.0023	*
Moon	20277-03-06 15:21 G	9127146.90	9127147.14	9127147.40	0.0088	0.0031	

Earth	20277-03-06 18:00 G	9127147.02	9127147.25	9127147.51	0.0088	0.0027 *
Earth	20278-03-09 05:16 G	9127514.47	9127514.72	9127514.97	0.0088	0.0026
Moon	20278-03-09 08:09 G	9127514.60	9127514.84	9127515.09	0.0088	0.0022 *
Moon	20279-03-11 12:28 G	9127881.78	9127882.02	9127882.27	0.0088	0.0030
Earth	20279-03-11 16:04 G	9127881.94	9127882.17	9127882.43	0.0088	0.0026 *
Earth	20280-03-13 03:07 G	9128249.39	9128249.63	9128249.89	0.0088	0.0025
Moon	20280-03-13 06:43 G	9128249.53	9128249.78	9128250.03	0.0088	0.0020 *
Moon	20281-03-15 11:31 G	9128616.74	9128616.98	9128617.22	0.0088	0.0028
Earth	20281-03-15 14:24 G	9128616.86	9128617.10	9128617.36	0.0088	0.0024 *
Mars	20281-11-28 06:28 G	9128874.60	9128874.77	9128875.02	0.0088	0.0069
Earth	20282-03-18 01:40 G	9128984.32	9128984.57	9128984.82	0.0088	0.0023
Moon	20282-03-18 03:36 G	9128984.40	9128984.65	9128984.92	0.0088	0.0019 *
Moon	20283-03-20 12:00 G	9129351.78	9129352.00	9129352.25	0.0088	0.0027
Earth	20283-03-20 12:28 G	9129351.79	9129352.02	9129352.29	0.0088	0.0023 *
Mars	20283-10-25 00:43 G	9129570.21	9129570.53	9129570.87	0.0088	0.0016
Moon	20284-03-21 23:45 G	9129719.24	9129719.49	9129719.76	0.0088	0.0018
Earth	20284-03-21 23:45 G	9129719.26	9129719.49	9129719.76	0.0088	0.0023 *
Earth	20285-03-24 11:16 G	9130086.73	9130086.97	9130087.23	0.0088	0.0021
Moon	20285-03-24 13:12 G	9130086.81	9130087.05	9130087.29	0.0088	0.0025 *
Moon	20286-03-26 19:40 G	9130454.07	9130454.32	9130454.59	0.0088	0.0016
Earth	20286-03-26 22:48 G	9130454.20	9130454.45	9130454.71	0.0088	0.0020 *
Earth	20287-03-29 10:19 G	9130821.68	9130821.93	9130822.19	0.0088	0.0019
Moon	20287-03-29 13:26 G	9130821.82	9130822.06	9130822.31	0.0088	0.0023 *
Moon	20288-03-30 18:14 G	9131189.01	9131189.26	9131189.52	0.0088	0.0014
Earth	20288-03-30 22:04 G	9131189.17	9131189.42	9131189.68	0.0088	0.0018 *
Earth	20289-04-02 09:36 G	9131556.65	9131556.90	9131557.16	0.0088	0.0017
Moon	20289-04-02 12:57 G	9131556.79	9131557.04	9131557.30	0.0088	0.0021 *
Moon	20290-04-04 18:43 G	9131924.03	9131924.28	9131924.53	0.0088	0.0013
Earth	20290-04-04 21:21 G	9131924.15	9131924.39	9131924.66	0.0088	0.0017 *
Earth	20291-04-07 09:07 G	9132291.63	9132291.88	9132292.14	0.0088	0.0015



Moon	20291-04-07 11:02 G	9132291.71	9132291.96	9132292.23	0.0088	0.0019 *
Moon	20292-04-08 20:38 G	9132659.11	9132659.36	9132659.61	0.0088	0.0010
Earth	20292-04-08 20:52 G	9132659.12	9132659.37	9132659.64	0.0088	0.0015 *
Moon	20293-04-11 08:38 G	9133026.60	9133026.86	9133027.13	0.0088	0.0017
Earth	20293-04-11 08:38 G	9133026.62	9133026.86	9133027.13	0.0088	0.0014 *
Earth	20294-04-13 20:24 G	9133394.10	9133394.35	9133394.62	0.0088	0.0012
Moon	20294-04-13 22:19 G	9133394.18	9133394.43	9133394.69	0.0088	0.0008 *
Moon	20295-04-16 05:45 G	9133761.48	9133761.74	9133762.00	0.0088	0.0015
Earth	20295-04-16 08:38 G	9133761.60	9133761.86	9133762.11	0.0088	0.0011 *
Earth	20296-04-17 20:24 G	9134129.10	9134129.35	9134129.61	0.0089	0.0010
Moon	20296-04-17 23:31 G	9134129.23	9134129.48	9134129.74	0.0089	0.0007 *
Moon	20297-04-20 04:33 G	9134496.44	9134496.69	9134496.95	0.0089	0.0013
Earth	20297-04-20 08:24 G	9134496.60	9134496.85	9134497.11	0.0089	0.0009 *
Earth	20298-04-22 20:24 G	9134864.10	9134864.35	9134864.61	0.0089	0.0008
Moon	20298-04-22 23:45 G	9134864.23	9134864.49	9134864.75	0.0089	0.0004 *
Moon	20299-04-25 05:31 G	9135231.48	9135231.73	9135231.99	0.0089	0.0009
Earth	20299-04-25 08:38 G	9135231.60	9135231.86	9135232.12	0.0089	0.0006 *
Earth	20300-04-27 20:52 G	9135599.12	9135599.37	9135599.63	0.0089	0.0005
Moon	20300-04-27 23:02 G	9135599.19	9135599.46	9135599.72	0.0089	0.0002 *
Moon	20301-04-30 08:52 G	9135966.62	9135966.87	9135967.12	0.0089	0.0007
Earth	20301-04-30 09:21 G	9135966.63	9135966.89	9135967.15	0.0089	0.0004 *
Moon	20302-05-02 21:36 G	9136334.13	9136334.40	9136334.67	0.0089	0.0001
Earth	20302-05-02 21:50 G	9136334.15	9136334.41	9136334.67	0.0089	0.0003 *
Earth	20303-05-05 10:19 G	9136701.67	9136701.93	9136702.19	0.0089	0.0002
Moon	20303-05-05 12:00 G	9136701.75	9136702.00	9136702.25	0.0089	0.0005 *
Moon	20304-05-06 20:09 G	9137069.07	9137069.34	9137069.60	0.0089	0.0003
Earth	20304-05-06 22:48 G	9137069.19	9137069.45	9137069.71	0.0089	0.0001 *
Earth	20305-05-09 11:16 G	9137436.71	9137436.97	9137437.23	0.0089	0.0002
Moon	20305-05-09 14:24 G	9137436.84	9137437.10	9137437.35	0.0089	0.0002 *
Moon	20306-05-11 19:55 G	9137804.07	9137804.33	9137804.59	0.0089	0.0006

Earth	20306-05-11 23:45 G	9137804.23	9137804.49	9137804.75	0.0089	0.0002 *
Earth	20307-05-14 12:14 G	9138171.75	9138172.01	9138172.27	0.0089	0.0004
Moon	20307-05-14 15:36 G	9138171.89	9138172.15	9138172.41	0.0089	0.0001 *
Venus	20308-04-23 08:24 G	9138516.79	9138516.85	9138516.93	0.0089	0.0084
Moon	20308-05-15 21:36 G	9138539.15	9138539.40	9138539.66	0.0089	0.0007
Earth	20308-05-16 00:57 G	9138539.28	9138539.54	9138539.80	0.0089	0.0005 *
Venus	20308-12-04 21:36 G	9138742.25	9138742.40	9138742.55	0.0089	0.0064
Earth	20309-05-18 13:26 G	9138906.80	9138907.06	9138907.32	0.0089	0.0006
Moon	20309-05-18 15:36 G	9138906.88	9138907.15	9138907.42	0.0089	0.0004 *
Venus	20309-07-18 10:48 G	9138967.76	9138967.95	9138968.14	0.0089	0.0044
Venus	20310-03-01 00:00 G	9139193.29	9139193.50	9139193.72	0.0089	0.0024
Moon	20310-05-21 01:12 G	9139274.30	9139274.55	9139274.80	0.0089	0.0009
Earth	20310-05-21 02:09 G	9139274.33	9139274.59	9139274.85	0.0089	0.0007 *
Venus	20310-10-12 13:12 G	9139418.83	9139419.05	9139419.27	0.0089	0.0004
Moon	20311-05-23 15:07 G	9139641.86	9139642.13	9139642.40	0.0089	0.0007
Earth	20311-05-23 14:52 G	9139641.87	9139642.12	9139642.38	0.0089	0.0009 *
Venus	20311-05-26 02:09 G	9139644.38	9139644.59	9139644.82	0.0089	0.0017
Venus	20312-01-06 15:21 G	9139869.95	9139870.14	9139870.35	0.0089	0.0036
Earth	20312-05-25 03:36 G	9140009.40	9140009.65	9140009.92	0.0089	0.0011
Moon	20312-05-25 05:16 G	9140009.48	9140009.72	9140009.98	0.0089	0.0012 *
Venus	20312-08-19 04:33 G	9140095.53	9140095.69	9140095.87	0.0089	0.0056
Venus	20313-04-01 18:14 G	9140321.15	9140321.26	9140321.37	0.0089	0.0077
Moon	20313-05-27 14:09 G	9140376.83	9140377.09	9140377.36	0.0089	0.0009
Earth	20313-05-27 16:33 G	9140376.94	9140377.19	9140377.46	0.0089	0.0011 *
Earth	20314-05-30 05:31 G	9140744.48	9140744.73	9140745.00	0.0089	0.0013
Moon	20314-05-30 08:38 G	9140744.61	9140744.86	9140745.12	0.0089	0.0013 *
Moon	20315-06-01 15:07 G	9141111.88	9141112.13	9141112.39	0.0089	0.0012
Earth	20315-06-01 18:57 G	9141112.03	9141112.29	9141112.55	0.0089	0.0013 *
Earth	20316-06-03 07:55 G	9141479.58	9141479.83	9141480.09	0.0089	0.0015
Moon	20316-06-03 11:16 G	9141479.72	9141479.97	9141480.23	0.0089	0.0015 *

Mercury	20316-11-10 00:57 G	9141639.51	9141639.54	9141639.59	0.0089	0.0086
Mercury	20317-02-06 03:36 G	9141727.58	9141727.65	9141727.73	0.0089	0.0078
Mercury	20317-05-05 05:45 G	9141815.65	9141815.74	9141815.86	0.0089	0.0070
Moon	20317-06-05 17:45 G	9141846.99	9141847.24	9141847.49	0.0089	0.0015
Earth	20317-06-05 21:07 G	9141847.13	9141847.38	9141847.64	0.0089	0.0016 *
Mercury	20317-08-01 08:24 G	9141903.74	9141903.85	9141903.98	0.0089	0.0061
Mercury	20317-10-28 11:02 G	9141991.83	9141991.96	9141992.10	0.0089	0.0052
Mercury	20318-01-24 13:26 G	9142079.92	9142080.06	9142080.21	0.0089	0.0043
Mercury	20318-04-22 15:50 G	9142168.01	9142168.16	9142168.32	0.0089	0.0035
Earth	20318-06-08 10:04 G	9142214.66	9142214.92	9142215.17	0.0089	0.0017
Moon	20318-06-08 12:14 G	9142214.75	9142215.01	9142215.27	0.0089	0.0018 *
Mercury	20318-07-19 18:14 G	9142256.11	9142256.26	9142256.42	0.0089	0.0026
Mercury	20318-10-15 20:38 G	9142344.20	9142344.36	9142344.52	0.0089	0.0018
Mercury	20319-01-11 23:02 G	9142432.30	9142432.46	9142432.63	0.0089	0.0009
Mercury	20319-04-10 01:26 G	9142520.40	9142520.56	9142520.73	0.0089	0.0002
Moon	20319-06-10 21:50 G	9142582.17	9142582.41	9142582.66	0.0089	0.0018
Earth	20319-06-10 22:48 G	9142582.21	9142582.45	9142582.72	0.0089	0.0019 *
Mercury	20319-07-07 03:50 G	9142608.50	9142608.66	9142608.82	0.0089	0.0008
Mercury	20319-10-03 06:00 G	9142696.60	9142696.75	9142696.92	0.0089	0.0017
Mercury	20319-12-30 08:24 G	9142784.70	9142784.85	9142785.01	0.0089	0.0024
Mercury	20320-03-27 10:48 G	9142872.80	9142872.95	9142873.10	0.0089	0.0033
Earth	20320-06-12 12:00 G	9142949.76	9142950.00	9142950.27	0.0089	0.0019
Moon	20320-06-12 12:43 G	9142949.77	9142950.03	9142950.29	0.0089	0.0019 *
Mercury	20320-06-23 13:12 G	9142960.91	9142961.05	9142961.19	0.0089	0.0041
Mercury	20320-09-19 15:07 G	9143049.01	9143049.13	9143049.28	0.0089	0.0050
Mercury	20320-12-16 17:31 G	9143137.12	9143137.23	9143137.36	0.0089	0.0057
Mercury	20321-03-14 19:55 G	9143225.23	9143225.33	9143225.44	0.0089	0.0065
Mercury	20321-06-10 22:04 G	9143313.34	9143313.42	9143313.52	0.0089	0.0074
Earth	20321-06-15 00:57 G	9143317.30	9143317.54	9143317.80	0.0089	0.0020
Moon	20321-06-15 02:24 G	9143317.36	9143317.60	9143317.85	0.0089	0.0020 *

Mercury	20321-09-07 00:28 G	9143401.46	9143401.52	9143401.59	0.0089	0.0082
Moon	20322-06-17 12:00 G	9143684.75	9143685.00	9143685.27	0.0089	0.0021
Earth	20322-06-17 14:24 G	9143684.85	9143685.10	9143685.35	0.0089	0.0021 *
Earth	20323-06-20 03:36 G	9144052.40	9144052.65	9144052.90	0.0089	0.0022
Moon	20323-06-20 06:14 G	9144052.52	9144052.76	9144053.01	0.0089	0.0023 *
Moon	20324-06-21 12:43 G	9144419.80	9144420.03	9144420.30	0.0089	0.0024
Earth	20324-06-21 16:48 G	9144419.95	9144420.20	9144420.45	0.0089	0.0023 *
Earth	20325-06-24 05:45 G	9144787.50	9144787.74	9144788.00	0.0089	0.0024
Moon	20325-06-24 09:21 G	9144787.65	9144787.89	9144788.14	0.0089	0.0025 *
Moon	20326-06-26 15:36 G	9145154.91	9145155.15	9145155.41	0.0089	0.0024
Earth	20326-06-26 19:12 G	9145155.06	9145155.30	9145155.56	0.0089	0.0025 *
Earth	20327-06-29 08:24 G	9145522.62	9145522.85	9145523.11	0.0089	0.0026
Moon	20327-06-29 11:02 G	9145522.72	9145522.96	9145523.22	0.0089	0.0026 *
Moon	20328-06-30 20:09 G	9145890.11	9145890.34	9145890.59	0.0089	0.0025
Earth	20328-06-30 21:50 G	9145890.17	9145890.41	9145890.67	0.0089	0.0026 *
Earth	20329-07-03 11:02 G	9146257.72	9146257.96	9146258.22	0.0089	0.0027
Moon	20329-07-03 11:45 G	9146257.75	9146257.99	9146258.26	0.0089	0.0029 *
Earth	20330-07-06 00:14 G	9146625.27	9146625.51	9146625.77	0.0090	0.0028
Moon	20330-07-06 01:12 G	9146625.32	9146625.55	9146625.80	0.0090	0.0027 *
Moon	20331-07-08 12:00 G	9146992.75	9146993.00	9146993.26	0.0090	0.0030
Earth	20331-07-08 13:26 G	9146992.83	9146993.06	9146993.32	0.0090	0.0029 *
Earth	20332-07-10 02:38 G	9147360.37	9147360.61	9147360.86	0.0090	0.0029
Moon	20332-07-10 05:16 G	9147360.49	9147360.72	9147360.97	0.0090	0.0027 *
Moon	20333-07-12 12:14 G	9147727.78	9147728.01	9147728.27	0.0090	0.0031
Earth	20333-07-12 15:36 G	9147727.92	9147728.15	9147728.41	0.0090	0.0030 *
Earth	20334-07-15 05:02 G	9148095.47	9148095.71	9148095.96	0.0090	0.0030
Moon	20334-07-15 08:38 G	9148095.61	9148095.86	9148096.10	0.0090	0.0027 *
Moon	20335-07-17 14:38 G	9148462.88	9148463.11	9148463.35	0.0090	0.0033
Earth	20335-07-17 18:00 G	9148463.02	9148463.25	9148463.51	0.0090	0.0031 *
Earth	20336-07-19 07:12 G	9148830.57	9148830.80	9148831.06	0.0090	0.0031

Moon	20336-07-19 10:19 G	9148830.68	9148830.93	9148831.18	0.0090	0.0028	*
Moon	20337-07-21 18:28 G	9149198.04	9149198.27	9149198.50	0.0090	0.0034	
Earth	20337-07-21 20:24 G	9149198.12	9149198.35	9149198.60	0.0090	0.0031	*
Earth	20338-07-24 09:36 G	9149565.67	9149565.90	9149566.15	0.0090	0.0032	
Moon	20338-07-24 11:02 G	9149565.71	9149565.96	9149566.21	0.0090	0.0028	*
Earth	20339-07-26 22:48 G	9149933.23	9149933.45	9149933.71	0.0090	0.0032	
Moon	20339-07-26 23:16 G	9149933.26	9149933.47	9149933.72	0.0090	0.0035	*
Moon	20340-07-28 10:48 G	9150300.71	9150300.95	9150301.22	0.0090	0.0029	
Earth	20340-07-28 12:14 G	9150300.78	9150301.01	9150301.26	0.0090	0.0032	*
Earth	20341-07-31 01:26 G	9150668.32	9150668.56	9150668.81	0.0090	0.0032	
Moon	20341-07-31 03:36 G	9150668.43	9150668.65	9150668.90	0.0090	0.0036	*
Moon	20342-08-02 11:16 G	9151035.73	9151035.97	9151036.23	0.0090	0.0029	
Earth	20342-08-02 14:52 G	9151035.88	9151036.12	9151036.36	0.0090	0.0032	*
Earth	20343-08-05 03:50 G	9151403.42	9151403.66	9151403.90	0.0090	0.0032	
Moon	20343-08-05 07:12 G	9151403.56	9151403.80	9151404.03	0.0090	0.0036	*
Moon	20344-08-06 13:12 G	9151770.80	9151771.05	9151771.29	0.0090	0.0028	
Earth	20344-08-06 16:48 G	9151770.96	9151771.20	9151771.44	0.0090	0.0032	*
Earth	20345-08-09 05:31 G	9152138.49	9152138.73	9152138.97	0.0090	0.0032	
Moon	20345-08-09 08:09 G	9152138.61	9152138.84	9152139.10	0.0090	0.0036	*
Moon	20346-08-11 15:50 G	9152505.93	9152506.16	9152506.41	0.0090	0.0028	
Earth	20346-08-11 18:28 G	9152506.03	9152506.27	9152506.52	0.0090	0.0032	*
Earth	20347-08-14 07:12 G	9152873.57	9152873.80	9152874.05	0.0090	0.0032	
Moon	20347-08-14 08:38 G	9152873.63	9152873.86	9152874.11	0.0090	0.0036	*
Earth	20348-08-15 19:55 G	9153241.10	9153241.33	9153241.58	0.0090	0.0032	
Moon	20348-08-15 20:24 G	9153241.11	9153241.35	9153241.59	0.0090	0.0028	*
Moon	20349-08-18 07:55 G	9153608.60	9153608.83	9153609.09	0.0090	0.0036	
Earth	20349-08-18 08:38 G	9153608.64	9153608.86	9153609.12	0.0090	0.0032	*
Earth	20350-08-20 21:36 G	9153976.18	9153976.40	9153976.66	0.0090	0.0032	
Moon	20350-08-21 00:00 G	9153976.27	9153976.50	9153976.75	0.0090	0.0027	*
Moon	20351-08-23 07:26 G	9154343.58	9154343.81	9154344.07	0.0089	0.0035	

Earth	20351-08-23 10:48 G	9154343.72	9154343.95	9154344.20	0.0089	0.0031	*
Earth	20352-08-24 23:31 G	9154711.25	9154711.48	9154711.73	0.0089	0.0031	
Moon	20352-08-25 02:52 G	9154711.39	9154711.62	9154711.87	0.0089	0.0026	*
Moon	20353-08-27 08:38 G	9155078.64	9155078.86	9155079.11	0.0089	0.0035	
Earth	20353-08-27 12:28 G	9155078.78	9155079.02	9155079.27	0.0089	0.0030	*
Earth	20354-08-30 00:57 G	9155446.31	9155446.54	9155446.80	0.0089	0.0030	
Moon	20354-08-30 04:33 G	9155446.44	9155446.69	9155446.94	0.0089	0.0025	*
Moon	20355-09-01 11:02 G	9155813.74	9155813.96	9155814.21	0.0089	0.0034	
Earth	20355-09-01 13:55 G	9155813.84	9155814.08	9155814.33	0.0089	0.0029	*
Earth	20356-09-03 02:09 G	9156181.36	9156181.59	9156181.85	0.0089	0.0029	
Moon	20356-09-03 03:50 G	9156181.41	9156181.66	9156181.93	0.0089	0.0024	*
Moon	20357-09-05 14:38 G	9156548.88	9156549.11	9156549.35	0.0089	0.0032	
Earth	20357-09-05 14:38 G	9156548.88	9156549.11	9156549.37	0.0089	0.0028	*
Moon	20358-09-08 02:38 G	9156916.36	9156916.61	9156916.88	0.0089	0.0023	
Earth	20358-09-08 03:21 G	9156916.40	9156916.64	9156916.89	0.0089	0.0027	*
Earth	20359-09-10 15:21 G	9157283.91	9157284.14	9157284.40	0.0089	0.0026	
Moon	20359-09-10 17:45 G	9157284.01	9157284.24	9157284.48	0.0089	0.0031	*
Moon	20360-09-12 00:43 G	9157651.29	9157651.53	9157651.80	0.0089	0.0021	
Earth	20360-09-12 03:50 G	9157651.42	9157651.66	9157651.92	0.0089	0.0026	*
Earth	20361-09-14 16:04 G	9158018.93	9158019.17	9158019.42	0.0089	0.0024	
Moon	20361-09-14 19:12 G	9158019.07	9158019.30	9158019.55	0.0089	0.0029	*
Moon	20362-09-17 00:43 G	9158386.28	9158386.53	9158386.79	0.0089	0.0019	
Earth	20362-09-17 04:33 G	9158386.44	9158386.69	9158386.94	0.0089	0.0024	*
Mars	20363-08-19 07:55 G	9158722.60	9158722.83	9158723.11	0.0089	0.0046	
Earth	20363-09-19 16:33 G	9158753.95	9158754.19	9158754.45	0.0089	0.0023	
Moon	20363-09-19 19:40 G	9158754.08	9158754.32	9158754.58	0.0089	0.0027	*
Moon	20364-09-21 01:55 G	9159121.34	9159121.58	9159121.83	0.0089	0.0017	
Earth	20364-09-21 04:33 G	9159121.45	9159121.69	9159121.95	0.0089	0.0022	*
Mars	20365-07-13 08:24 G	9159416.59	9159416.85	9159417.15	0.0089	0.0032	
Earth	20365-09-23 16:48 G	9159488.96	9159489.20	9159489.46	0.0089	0.0021	

Moon	20365-09-23 18:28 G	9159489.03	9159489.27	9159489.53	0.0089	0.0026 *
Moon	20366-09-26 04:33 G	9159856.46	9159856.69	9159856.95	0.0089	0.0017
Earth	20366-09-26 05:02 G	9159856.47	9159856.71	9159856.97	0.0089	0.0020 *
Moon	20367-09-28 16:19 G	9160223.94	9160224.18	9160224.45	0.0089	0.0024
Earth	20367-09-28 16:48 G	9160223.96	9160224.20	9160224.47	0.0089	0.0019 *
Earth	20368-09-30 04:48 G	9160591.46	9160591.70	9160591.96	0.0089	0.0018
Moon	20368-09-30 06:57 G	9160591.55	9160591.79	9160592.04	0.0089	0.0013 *
Moon	20369-10-02 13:40 G	9160958.83	9160959.07	9160959.34	0.0089	0.0021
Earth	20369-10-02 16:48 G	9160958.95	9160959.20	9160959.45	0.0089	0.0017 *
Earth	20370-10-05 04:04 G	9161326.43	9161326.67	9161326.94	0.0089	0.0016
Moon	20370-10-05 07:40 G	9161326.57	9161326.82	9161327.07	0.0089	0.0011 *
Moon	20371-10-07 12:14 G	9161693.77	9161694.01	9161694.27	0.0089	0.0019
Earth	20371-10-07 16:04 G	9161693.92	9161694.17	9161694.43	0.0089	0.0014 *
Earth	20372-10-09 03:21 G	9162061.39	9162061.64	9162061.90	0.0089	0.0013
Moon	20372-10-09 06:43 G	9162061.52	9162061.78	9162062.04	0.0089	0.0009 *
Moon	20373-10-11 12:14 G	9162428.77	9162429.01	9162429.26	0.0089	0.0016
Earth	20373-10-11 15:07 G	9162428.88	9162429.13	9162429.39	0.0089	0.0012 *
Earth	20374-10-14 02:38 G	9162796.36	9162796.61	9162796.87	0.0089	0.0011
Moon	20374-10-14 04:04 G	9162796.41	9162796.67	9162796.94	0.0089	0.0007 *
Moon	20375-10-16 13:26 G	9163163.83	9163164.06	9163164.31	0.0089	0.0014
Earth	20375-10-16 13:55 G	9163163.83	9163164.08	9163164.34	0.0089	0.0010 *
Moon	20376-10-18 00:57 G	9163531.28	9163531.54	9163531.81	0.0089	0.0005
Earth	20376-10-18 01:26 G	9163531.31	9163531.56	9163531.82	0.0089	0.0009 *
Earth	20377-10-20 12:43 G	9163898.78	9163899.03	9163899.30	0.0089	0.0008
Moon	20377-10-20 14:52 G	9163898.88	9163899.12	9163899.38	0.0089	0.0012 *
Moon	20378-10-22 21:21 G	9164266.13	9164266.39	9164266.66	0.0089	0.0003
Earth	20378-10-23 00:14 G	9164266.26	9164266.51	9164266.77	0.0089	0.0006 *
Earth	20379-10-25 11:31 G	9164633.73	9164633.98	9164634.24	0.0089	0.0005
Moon	20379-10-25 14:52 G	9164633.87	9164634.12	9164634.38	0.0089	0.0009 *
Moon	20380-10-26 19:12 G	9165001.04	9165001.30	9165001.55	0.0089	0.0001

Earth	20380-10-26 22:48 G	9165001.19	9165001.45	9165001.71	0.0089	0.0004	*
Earth	20381-10-29 09:50 G	9165368.66	9165368.91	9165369.17	0.0089	0.0002	
Moon	20381-10-29 12:57 G	9165368.78	9165369.04	9165369.30	0.0089	0.0006	*
Moon	20382-10-31 18:14 G	9165736.01	9165736.26	9165736.51	0.0089	0.0002	
Earth	20382-10-31 21:07 G	9165736.12	9165736.38	9165736.63	0.0089	0.0002	*
Earth	20383-11-03 07:40 G	9166103.57	9166103.82	9166104.08	0.0089	0.0002	
Moon	20383-11-03 09:07 G	9166103.62	9166103.88	9166104.15	0.0089	0.0004	*
Moon	20384-11-04 18:28 G	9166471.03	9166471.27	9166471.52	0.0089	0.0005	
Earth	20384-11-04 18:43 G	9166471.03	9166471.28	9166471.54	0.0089	0.0001	*
Moon	20385-11-07 05:02 G	9166838.44	9166838.71	9166838.97	0.0089	0.0001	
Earth	20385-11-07 05:45 G	9166838.48	9166838.74	9166838.99	0.0089	0.0003	*
Earth	20386-11-09 16:19 G	9167205.93	9167206.18	9167206.44	0.0088	0.0004	
Moon	20386-11-09 18:43 G	9167206.03	9167206.28	9167206.53	0.0088	0.0008	*
Moon	20387-11-12 00:14 G	9167573.25	9167573.51	9167573.78	0.0088	0.0002	
Earth	20387-11-12 03:21 G	9167573.38	9167573.64	9167573.90	0.0088	0.0005	*
Earth	20388-11-13 13:55 G	9167940.83	9167941.08	9167941.34	0.0088	0.0006	
Moon	20388-11-13 17:31 G	9167940.98	9167941.23	9167941.48	0.0088	0.0009	*
Venus	20389-10-27 21:36 G	9168289.31	9168289.40	9168289.55	0.0088	0.0075	
Moon	20389-11-15 21:21 G	9168308.14	9168308.39	9168308.65	0.0088	0.0004	
Earth	20389-11-16 00:57 G	9168308.29	9168308.54	9168308.80	0.0088	0.0008	*
Venus	20390-06-10 10:48 G	9168514.79	9168514.95	9168515.13	0.0088	0.0055	
Earth	20390-11-18 11:45 G	9168675.73	9168675.99	9168676.24	0.0088	0.0009	
Moon	20390-11-18 14:52 G	9168675.86	9168676.12	9168676.38	0.0088	0.0012	*
Venus	20391-01-21 23:31 G	9168740.29	9168740.48	9168740.70	0.0088	0.0035	
Venus	20391-09-04 12:43 G	9168965.82	9168966.03	9168966.25	0.0088	0.0015	
Moon	20391-11-20 19:55 G	9169043.08	9169043.33	9169043.58	0.0088	0.0007	
Earth	20391-11-20 22:19 G	9169043.18	9169043.43	9169043.69	0.0088	0.0010	*
Venus	20392-04-17 01:40 G	9169191.35	9169191.57	9169191.79	0.0088	0.0005	
Earth	20392-11-22 08:52 G	9169410.62	9169410.87	9169411.13	0.0088	0.0012	
Moon	20392-11-22 10:04 G	9169410.66	9169410.92	9169411.18	0.0088	0.0014	*



Venus	20392-11-28 14:24 G	9169416.89	9169417.10	9169417.32	0.0088	0.0024
Venus	20393-07-12 03:21 G	9169642.45	9169642.64	9169642.83	0.0088	0.0044
Earth	20393-11-24 19:40 G	9169778.07	9169778.32	9169778.58	0.0088	0.0012
Moon	20393-11-24 19:40 G	9169778.08	9169778.32	9169778.57	0.0088	0.0010 *
Venus	20394-02-22 15:36 G	9169868.02	9169868.15	9169868.32	0.0088	0.0064
Venus	20394-10-06 04:19 G	9170093.63	9170093.68	9170093.78	0.0088	0.0083
Moon	20394-11-27 04:48 G	9170145.45	9170145.70	9170145.97	0.0088	0.0017
Earth	20394-11-27 06:00 G	9170145.50	9170145.75	9170146.01	0.0088	0.0014 *
Earth	20395-11-29 16:33 G	9170512.94	9170513.19	9170513.44	0.0088	0.0015
Moon	20395-11-29 19:12 G	9170513.05	9170513.30	9170513.55	0.0088	0.0011 *
Moon	20396-11-30 23:31 G	9170880.24	9170880.48	9170880.75	0.0088	0.0019
Earth	20396-12-01 02:38 G	9170880.37	9170880.61	9170880.88	0.0088	0.0016 *
Earth	20397-12-03 12:57 G	9171247.80	9171248.04	9171248.30	0.0088	0.0017
Moon	20397-12-03 16:48 G	9171247.95	9171248.20	9171248.45	0.0088	0.0014 *
Mercury	20398-02-11 08:24 G	9171317.82	9171317.85	9171317.92	0.0088	0.0083
Mercury	20398-05-10 10:33 G	9171405.87	9171405.94	9171406.02	0.0088	0.0075
Mercury	20398-08-06 12:14 G	9171493.93	9171494.01	9171494.11	0.0088	0.0068
Mercury	20398-11-02 13:55 G	9171581.99	9171582.08	9171582.20	0.0088	0.0061
Moon	20398-12-05 20:09 G	9171615.10	9171615.34	9171615.59	0.0088	0.0021
Earth	20398-12-05 23:31 G	9171615.24	9171615.48	9171615.74	0.0088	0.0018 *
Mercury	20399-01-29 16:04 G	9171670.05	9171670.17	9171670.29	0.0088	0.0053
Mercury	20399-04-27 17:45 G	9171758.12	9171758.24	9171758.38	0.0088	0.0046
Mercury	20399-07-24 19:40 G	9171846.19	9171846.32	9171846.46	0.0088	0.0039
Mercury	20399-10-20 21:36 G	9171934.26	9171934.40	9171934.55	0.0088	0.0031
Earth	20399-12-08 09:36 G	9171982.66	9171982.90	9171983.16	0.0088	0.0019
Moon	20399-12-08 12:43 G	9171982.77	9171983.03	9171983.29	0.0088	0.0017 *
Mercury	20400-01-16 23:31 G	9172022.34	9172022.48	9172022.63	0.0088	0.0024
Mercury	20400-04-14 01:26 G	9172110.41	9172110.56	9172110.71	0.0088	0.0016
Mercury	20400-07-11 03:21 G	9172198.49	9172198.64	9172198.79	0.0088	0.0009
Mercury	20400-10-07 05:16 G	9172286.57	9172286.72	9172286.87	0.0088	0.0002

Moon	20400-12-09 17:45 G	9172350.01	9172350.24	9172350.49	0.0088	0.0023
Earth	20400-12-09 19:55 G	9172350.09	9172350.33	9172350.59	0.0088	0.0020 *
Mercury	20401-01-03 07:12 G	9172374.65	9172374.80	9172374.95	0.0088	0.0006
Mercury	20401-04-01 09:07 G	9172462.73	9172462.88	9172463.03	0.0088	0.0014
Mercury	20401-06-28 11:02 G	9172550.82	9172550.96	9172551.11	0.0088	0.0022
Mercury	20401-09-24 12:57 G	9172638.90	9172639.04	9172639.19	0.0088	0.0029
Earth	20401-12-12 06:14 G	9172717.53	9172717.76	9172718.02	0.0088	0.0021
Moon	20401-12-12 06:57 G	9172717.54	9172717.79	9172718.06	0.0088	0.0018 *
Mercury	20401-12-21 14:52 G	9172726.99	9172727.12	9172727.27	0.0088	0.0037
Mercury	20402-03-19 17:02 G	9172815.08	9172815.21	9172815.34	0.0088	0.0044
Mercury	20402-06-15 18:43 G	9172903.17	9172903.28	9172903.41	0.0088	0.0052
Mercury	20402-09-11 20:38 G	9172991.26	9172991.36	9172991.49	0.0088	0.0060
Mercury	20402-12-08 22:33 G	9173079.36	9173079.44	9173079.55	0.0088	0.0068
Earth	20402-12-14 16:33 G	9173084.95	9173085.19	9173085.45	0.0088	0.0022
Moon	20402-12-14 17:02 G	9173084.98	9173085.21	9173085.46	0.0088	0.0024 *
Mercury	20403-03-07 00:57 G	9173167.46	9173167.54	9173167.62	0.0088	0.0075
Mercury	20403-06-03 02:52 G	9173255.58	9173255.62	9173255.67	0.0088	0.0083
Moon	20403-12-17 01:26 G	9173452.31	9173452.56	9173452.83	0.0088	0.0020
Earth	20403-12-17 02:52 G	9173452.39	9173452.62	9173452.88	0.0088	0.0023 *
Earth	20404-12-18 13:12 G	9173819.81	9173820.05	9173820.31	0.0088	0.0024
Moon	20404-12-18 16:19 G	9173819.94	9173820.18	9173820.42	0.0088	0.0026 *
Moon	20405-12-20 20:09 G	9174187.10	9174187.34	9174187.60	0.0088	0.0022
Earth	20405-12-20 23:45 G	9174187.24	9174187.49	9174187.74	0.0088	0.0024 *
Earth	20406-12-23 09:36 G	9174554.66	9174554.90	9174555.16	0.0088	0.0025
Moon	20406-12-23 13:26 G	9174554.82	9174555.06	9174555.31	0.0088	0.0027 *
Moon	20407-12-25 16:33 G	9174921.95	9174922.19	9174922.44	0.0088	0.0023
Earth	20407-12-25 19:40 G	9174922.09	9174922.32	9174922.58	0.0088	0.0026 *
Earth	20408-12-27 05:45 G	9175289.51	9175289.74	9175290.00	0.0088	0.0027
Moon	20408-12-27 08:38 G	9175289.61	9175289.86	9175290.11	0.0088	0.0028 *
Moon	20409-12-29 13:55 G	9175656.86	9175657.08	9175657.34	0.0088	0.0026

Earth	20409-12-29 16:04 G	9175656.93	9175657.17	9175657.42	0.0088	0.0027 *
Moon	20411-01-01 02:09 G	9176024.34	9176024.59	9176024.84	0.0088	0.0030
Earth	20411-01-01 01:55 G	9176024.35	9176024.58	9176024.83	0.0088	0.0028 *
Earth	20412-01-03 11:45 G	9176391.77	9176391.99	9176392.25	0.0088	0.0029
Moon	20412-01-03 12:43 G	9176391.81	9176392.03	9176392.28	0.0088	0.0027 *
Moon	20413-01-04 20:09 G	9176759.10	9176759.34	9176759.60	0.0088	0.0031
Earth	20413-01-04 22:04 G	9176759.19	9176759.42	9176759.67	0.0088	0.0029 *
Earth	20414-01-07 07:55 G	9177126.61	9177126.83	9177127.09	0.0088	0.0030
Moon	20414-01-07 11:31 G	9177126.74	9177126.98	9177127.22	0.0088	0.0027 *
Moon	20415-01-09 15:07 G	9177493.90	9177494.13	9177494.38	0.0088	0.0032
Earth	20415-01-09 18:28 G	9177494.04	9177494.27	9177494.52	0.0088	0.0030 *
Earth	20416-01-12 04:19 G	9177861.46	9177861.68	9177861.94	0.0088	0.0031
Moon	20416-01-12 08:24 G	9177861.61	9177861.85	9177862.10	0.0088	0.0029 *
Moon	20417-01-13 12:00 G	9178228.77	9178229.00	9178229.24	0.0088	0.0033
Earth	20417-01-13 14:52 G	9178228.89	9178229.12	9178229.37	0.0088	0.0031 *
Earth	20418-01-16 01:12 G	9178596.31	9178596.55	9178596.79	0.0088	0.0031
Moon	20418-01-16 03:21 G	9178596.40	9178596.64	9178596.90	0.0088	0.0030 *
Moon	20419-01-18 09:50 G	9178963.69	9178963.91	9178964.15	0.0088	0.0033
Earth	20419-01-18 11:02 G	9178963.74	9178963.96	9178964.22	0.0088	0.0032 *
Moon	20420-01-20 20:52 G	9179331.13	9179331.37	9179331.63	0.0088	0.0030
Earth	20420-01-20 21:21 G	9179331.16	9179331.39	9179331.64	0.0088	0.0032 *
Earth	20421-01-22 07:40 G	9179698.59	9179698.82	9179699.06	0.0088	0.0032
Moon	20421-01-22 08:38 G	9179698.65	9179698.86	9179699.11	0.0088	0.0034 *
Moon	20422-01-24 15:07 G	9180065.90	9180066.13	9180066.39	0.0088	0.0031
Earth	20422-01-24 17:45 G	9180066.01	9180066.24	9180066.49	0.0088	0.0032 *
Earth	20423-01-27 04:04 G	9180433.43	9180433.67	9180433.91	0.0088	0.0032
Moon	20423-01-27 07:26 G	9180433.58	9180433.81	9180434.04	0.0088	0.0034 *
Moon	20424-01-29 10:33 G	9180800.71	9180800.94	9180801.19	0.0088	0.0031
Earth	20424-01-29 13:55 G	9180800.86	9180801.08	9180801.34	0.0088	0.0033 *
Earth	20425-01-31 00:00 G	9181168.28	9181168.50	9181168.76	0.0088	0.0033

Moon	20425-01-31 04:04 G	9181168.43	9181168.67	9181168.91	0.0088	0.0033	*
Moon	20426-02-02 07:55 G	9181535.61	9181535.83	9181536.08	0.0088	0.0031	
Earth	20426-02-02 10:19 G	9181535.71	9181535.93	9181536.19	0.0088	0.0033	*
Earth	20427-02-04 21:07 G	9181903.14	9181903.38	9181903.62	0.0088	0.0032	
Moon	20427-02-04 22:48 G	9181903.22	9181903.45	9181903.71	0.0088	0.0033	*
Moon	20428-02-07 06:43 G	9182270.55	9182270.78	9182271.01	0.0088	0.0031	
Earth	20428-02-07 07:26 G	9182270.58	9182270.81	9182271.06	0.0088	0.0032	*
Moon	20429-02-08 16:48 G	9182637.97	9182638.20	9182638.46	0.0088	0.0034	
Earth	20429-02-08 17:45 G	9182638.02	9182638.24	9182638.49	0.0088	0.0032	*
Earth	20430-02-11 04:04 G	9183005.45	9183005.67	9183005.93	0.0088	0.0032	
Moon	20430-02-11 05:45 G	9183005.52	9183005.74	9183005.99	0.0088	0.0031	*
Moon	20431-02-13 12:14 G	9183372.77	9183373.01	9183373.26	0.0088	0.0032	
Earth	20431-02-13 14:38 G	9183372.89	9183373.11	9183373.37	0.0088	0.0032	*
Earth	20432-02-16 01:26 G	9183740.32	9183740.56	9183740.80	0.0088	0.0031	
Moon	20432-02-16 04:48 G	9183740.47	9183740.70	9183740.95	0.0088	0.0030	*
Moon	20433-02-17 08:09 G	9184107.62	9184107.84	9184108.10	0.0088	0.0032	
Earth	20433-02-17 11:45 G	9184107.76	9184107.99	9184108.24	0.0088	0.0031	*
Earth	20434-02-19 22:33 G	9184475.20	9184475.44	9184475.68	0.0088	0.0030	
Moon	20434-02-20 01:55 G	9184475.34	9184475.58	9184475.83	0.0088	0.0030	*
Moon	20435-02-22 06:28 G	9184842.54	9184842.77	9184843.02	0.0088	0.0031	
Earth	20435-02-22 08:52 G	9184842.63	9184842.87	9184843.12	0.0088	0.0030	*
Earth	20436-02-24 19:40 G	9185210.08	9185210.32	9185210.56	0.0088	0.0029	
Moon	20436-02-24 21:07 G	9185210.14	9185210.38	9185210.64	0.0088	0.0029	*
Moon	20437-02-26 05:31 G	9185577.50	9185577.73	9185577.98	0.0088	0.0029	
Earth	20437-02-26 06:00 G	9185577.52	9185577.75	9185578.01	0.0088	0.0029	*
Moon	20438-02-28 15:21 G	9185944.89	9185945.14	9185945.40	0.0088	0.0027	
Earth	20438-02-28 16:48 G	9185944.96	9185945.20	9185945.45	0.0088	0.0028	*
Earth	20439-03-03 03:07 G	9186312.40	9186312.63	9186312.89	0.0088	0.0028	
Moon	20439-03-03 05:16 G	9186312.49	9186312.72	9186312.97	0.0088	0.0028	*
Moon	20440-03-04 11:02 G	9186679.73	9186679.96	9186680.23	0.0088	0.0027	

Earth	20440-03-04 14:09 G	9186679.86	9186680.09	9186680.35	0.0088	0.0027 *
Earth	20441-03-07 01:12 G	9187047.31	9187047.55	9187047.80	0.0088	0.0026
Moon	20441-03-07 04:33 G	9187047.46	9187047.69	9187047.95	0.0088	0.0027 *
Moon	20442-03-09 08:24 G	9187414.62	9187414.85	9187415.12	0.0088	0.0026
Earth	20442-03-09 12:00 G	9187414.77	9187415.00	9187415.26	0.0088	0.0026 *
Earth	20443-03-11 22:48 G	9187782.22	9187782.45	9187782.72	0.0088	0.0025
Moon	20443-03-12 02:24 G	9187782.36	9187782.60	9187782.87	0.0088	0.0024 *
Moon	20444-03-13 07:55 G	9188149.60	9188149.83	9188150.09	0.0088	0.0024
Earth	20444-03-13 10:04 G	9188149.69	9188149.92	9188150.18	0.0088	0.0024 *
Earth	20445-03-15 21:07 G	9188517.14	9188517.38	9188517.64	0.0088	0.0023
Moon	20445-03-15 22:48 G	9188517.20	9188517.45	9188517.71	0.0088	0.0022 *
Moon	20446-03-18 08:09 G	9188884.60	9188884.84	9188885.08	0.0088	0.0023
Earth	20446-03-18 08:09 G	9188884.60	9188884.84	9188885.10	0.0088	0.0022 *
Moon	20447-03-20 17:45 G	9189251.99	9189252.24	9189252.51	0.0088	0.0021
Earth	20447-03-20 19:26 G	9189252.07	9189252.31	9189252.57	0.0088	0.0021 *
Mars	20447-06-08 15:36 G	9189331.84	9189332.15	9189332.50	0.0088	0.0020
Earth	20448-03-22 06:28 G	9189619.53	9189619.77	9189620.03	0.0088	0.0020
Moon	20448-03-22 08:24 G	9189619.62	9189619.85	9189620.11	0.0088	0.0022 *
Moon	20449-03-24 14:38 G	9189986.86	9189987.11	9189987.37	0.0088	0.0018
Earth	20449-03-24 17:45 G	9189986.99	9189987.24	9189987.50	0.0088	0.0019 *
Mars	20449-05-04 07:55 G	9190027.64	9190027.83	9190028.09	0.0088	0.0065
Earth	20450-03-27 04:48 G	9190354.46	9190354.70	9190354.97	0.0088	0.0019
Moon	20450-03-27 08:38 G	9190354.61	9190354.86	9190355.12	0.0088	0.0018 *
Moon	20451-03-29 12:57 G	9190721.79	9190722.04	9190722.30	0.0088	0.0016
Earth	20451-03-29 16:19 G	9190721.94	9190722.18	9190722.44	0.0088	0.0017 *
Earth	20452-03-31 03:36 G	9191089.41	9191089.65	9191089.92	0.0088	0.0017
Moon	20452-03-31 07:12 G	9191089.55	9191089.80	9191090.06	0.0088	0.0017 *
Moon	20453-04-02 13:26 G	9191456.82	9191457.06	9191457.32	0.0088	0.0014
Earth	20453-04-02 15:21 G	9191456.89	9191457.14	9191457.40	0.0088	0.0015 *
Earth	20454-04-05 03:07 G	9191824.37	9191824.63	9191824.88	0.0088	0.0014

Moon	20454-04-05 04:19 G	9191824.42	9191824.68	9191824.95	0.0088	0.0015	*
Earth	20455-04-07 14:52 G	9192191.86	9192192.12	9192192.38	0.0088	0.0013	
Moon	20455-04-07 14:38 G	9192191.87	9192192.11	9192192.37	0.0088	0.0011	*
Moon	20456-04-09 00:57 G	9192559.28	9192559.54	9192559.81	0.0088	0.0012	
Earth	20456-04-09 02:38 G	9192559.36	9192559.61	9192559.87	0.0088	0.0011	*
Earth	20457-04-11 14:09 G	9192926.84	9192927.09	9192927.36	0.0088	0.0011	
Moon	20457-04-11 16:33 G	9192926.94	9192927.19	9192927.44	0.0088	0.0009	*
Moon	20458-04-13 23:02 G	9193294.20	9193294.46	9193294.72	0.0088	0.0011	
Earth	20458-04-14 02:24 G	9193294.34	9193294.60	9193294.85	0.0088	0.0009	*
Earth	20459-04-16 14:09 G	9193661.83	9193662.09	9193662.35	0.0088	0.0008	
Moon	20459-04-16 17:31 G	9193661.98	9193662.23	9193662.50	0.0088	0.0007	*
Moon	20460-04-17 22:33 G	9194029.19	9194029.44	9194029.70	0.0088	0.0009	
Earth	20460-04-18 01:55 G	9194029.33	9194029.58	9194029.85	0.0088	0.0007	*
Earth	20461-04-20 13:55 G	9194396.82	9194397.08	9194397.34	0.0089	0.0005	
Moon	20461-04-20 17:16 G	9194396.96	9194397.22	9194397.49	0.0089	0.0003	*
Moon	20462-04-23 00:00 G	9194764.25	9194764.50	9194764.75	0.0089	0.0006	
Earth	20462-04-23 01:55 G	9194764.32	9194764.58	9194764.84	0.0089	0.0004	*
Earth	20463-04-25 14:09 G	9195131.83	9195132.09	9195132.35	0.0089	0.0003	
Moon	20463-04-25 15:36 G	9195131.88	9195132.15	9195132.42	0.0089	0.0001	*
Earth	20464-04-27 02:24 G	9195499.34	9195499.60	9195499.85	0.0089	0.0002	
Moon	20464-04-27 02:09 G	9195499.34	9195499.59	9195499.84	0.0089	0.0004	*
Moon	20465-04-29 12:43 G	9195866.77	9195867.03	9195867.30	0.0089	0.0003	
Earth	20465-04-29 14:24 G	9195866.84	9195867.10	9195867.36	0.0089	0.0000	*
Earth	20466-05-02 02:52 G	9196234.36	9196234.62	9196234.88	0.0089	0.0002	
Moon	20466-05-02 04:48 G	9196234.45	9196234.70	9196234.95	0.0089	0.0001	*
Moon	20467-05-04 12:00 G	9196601.74	9196602.00	9196602.27	0.0089	0.0006	
Earth	20467-05-04 15:21 G	9196601.88	9196602.14	9196602.40	0.0089	0.0003	*
Earth	20468-05-06 03:36 G	9196969.40	9196969.65	9196969.91	0.0089	0.0005	
Moon	20468-05-06 07:12 G	9196969.55	9196969.80	9196970.06	0.0089	0.0002	*
Moon	20469-05-08 12:43 G	9197336.78	9197337.03	9197337.29	0.0089	0.0009	

Earth	20469-05-08 16:19 G	9197336.92	9197337.18	9197337.44	0.0089	0.0005	*
Earth	20470-05-11 04:33 G	9197704.44	9197704.69	9197704.96	0.0089	0.0007	
Moon	20470-05-11 08:09 G	9197704.58	9197704.84	9197705.10	0.0089	0.0003	*
Moon	20471-05-13 15:07 G	9198071.88	9198072.13	9198072.39	0.0089	0.0011	
Earth	20471-05-13 17:16 G	9198071.97	9198072.22	9198072.48	0.0089	0.0008	*
Earth	20472-05-15 05:45 G	9198439.49	9198439.74	9198440.00	0.0089	0.0010	
Moon	20472-05-15 07:26 G	9198439.55	9198439.81	9198440.08	0.0089	0.0006	*
Venus	20473-03-08 05:45 G	9198736.65	9198736.74	9198736.88	0.0089	0.0075	
Earth	20473-05-17 18:14 G	9198807.01	9198807.26	9198807.52	0.0089	0.0011	
Moon	20473-05-17 18:14 G	9198807.01	9198807.26	9198807.51	0.0089	0.0014	*
Venus	20473-10-19 18:57 G	9198962.14	9198962.29	9198962.49	0.0089	0.0055	
Moon	20474-05-20 05:31 G	9199174.47	9199174.73	9199175.00	0.0089	0.0009	
Earth	20474-05-20 06:57 G	9199174.54	9199174.79	9199175.05	0.0089	0.0012	*
Venus	20474-06-02 08:09 G	9199187.65	9199187.84	9199188.06	0.0089	0.0035	
Venus	20475-01-13 21:36 G	9199413.18	9199413.40	9199413.62	0.0089	0.0014	
Earth	20475-05-22 19:40 G	9199542.06	9199542.32	9199542.58	0.0089	0.0013	
Moon	20475-05-22 21:21 G	9199542.15	9199542.39	9199542.64	0.0089	0.0017	*
Venus	20475-08-27 10:48 G	9199638.73	9199638.95	9199639.17	0.0089	0.0006	
Venus	20476-04-08 23:45 G	9199864.29	9199864.49	9199864.71	0.0089	0.0026	
Moon	20476-05-24 05:02 G	9199909.45	9199909.71	9199909.98	0.0089	0.0011	
Earth	20476-05-24 08:24 G	9199909.59	9199909.85	9199910.11	0.0089	0.0015	*
Venus	20476-11-20 12:43 G	9200089.86	9200090.03	9200090.24	0.0089	0.0046	
Earth	20477-05-26 20:52 G	9200277.12	9200277.37	9200277.64	0.0089	0.0016	
Moon	20477-05-27 00:28 G	9200277.27	9200277.52	9200277.77	0.0089	0.0019	*
Venus	20477-07-04 01:55 G	9200315.45	9200315.58	9200315.74	0.0089	0.0066	
Venus	20478-02-14 15:07 G	9200541.10	9200541.13	9200541.20	0.0089	0.0086	
Moon	20478-05-29 06:14 G	9200644.51	9200644.76	9200645.03	0.0089	0.0013	
Earth	20478-05-29 09:50 G	9200644.66	9200644.91	9200645.17	0.0089	0.0017	*
Earth	20479-05-31 22:48 G	9201012.20	9201012.45	9201012.71	0.0089	0.0018	
Moon	20479-06-01 02:24 G	9201012.35	9201012.60	9201012.86	0.0089	0.0022	*

Moon	20480-06-02 09:36 G	9201379.66	9201379.90	9201380.15	0.0089	0.0015
Earth	20480-06-02 12:00 G	9201379.75	9201380.00	9201380.26	0.0089	0.0019 *
Earth	20481-06-05 00:43 G	9201747.29	9201747.53	9201747.79	0.0089	0.0021
Moon	20481-06-05 02:52 G	9201747.37	9201747.62	9201747.88	0.0089	0.0025 *
Mercury	20481-08-06 23:02 G	9201810.43	9201810.46	9201810.52	0.0089	0.0086
Mercury	20481-11-03 01:40 G	9201898.49	9201898.57	9201898.66	0.0089	0.0077
Mercury	20482-01-30 04:04 G	9201986.58	9201986.67	9201986.79	0.0089	0.0068
Mercury	20482-04-28 06:43 G	9202074.66	9202074.78	9202074.91	0.0089	0.0059
Moon	20482-06-07 13:26 G	9202114.83	9202115.06	9202115.32	0.0089	0.0018
Earth	20482-06-07 13:55 G	9202114.84	9202115.08	9202115.34	0.0089	0.0022 *
Mercury	20482-07-25 09:21 G	9202162.75	9202162.89	9202163.02	0.0089	0.0051
Mercury	20482-10-21 11:31 G	9202250.84	9202250.98	9202251.13	0.0089	0.0042
Mercury	20483-01-17 14:09 G	9202338.94	9202339.09	9202339.24	0.0089	0.0033
Mercury	20483-04-15 16:19 G	9202427.03	9202427.18	9202427.35	0.0089	0.0026
Moon	20483-06-10 01:55 G	9202482.34	9202482.58	9202482.85	0.0089	0.0027
Earth	20483-06-10 03:07 G	9202482.38	9202482.63	9202482.89	0.0089	0.0022 *
Mercury	20483-07-12 18:57 G	9202515.13	9202515.29	9202515.45	0.0089	0.0016
Mercury	20483-10-08 21:21 G	9202603.23	9202603.39	9202603.55	0.0089	0.0008
Mercury	20484-01-04 23:45 G	9202691.33	9202691.49	9202691.65	0.0089	0.0000
Mercury	20484-04-02 02:09 G	9202779.43	9202779.59	9202779.75	0.0089	0.0009
Earth	20484-06-11 16:04 G	9202849.92	9202850.17	9202850.42	0.0089	0.0024
Moon	20484-06-11 17:31 G	9202849.99	9202850.23	9202850.48	0.0089	0.0019 *
Mercury	20484-06-29 04:19 G	9202867.53	9202867.68	9202867.85	0.0089	0.0018
Mercury	20484-09-25 06:43 G	9202955.63	9202955.78	9202955.94	0.0089	0.0026
Mercury	20484-12-22 08:52 G	9203043.73	9203043.87	9203044.03	0.0089	0.0035
Mercury	20485-03-20 11:16 G	9203131.84	9203131.97	9203132.12	0.0089	0.0042
Moon	20485-06-14 01:40 G	9203217.34	9203217.57	9203217.84	0.0089	0.0030
Earth	20485-06-14 05:02 G	9203217.47	9203217.71	9203217.97	0.0089	0.0024 *
Mercury	20485-06-16 13:40 G	9203219.94	9203220.07	9203220.21	0.0089	0.0050
Mercury	20485-09-12 16:04 G	9203308.05	9203308.17	9203308.29	0.0089	0.0059



Mercury	20485-12-09 18:14 G	9203396.16	9203396.26	9203396.37	0.0089	0.0067
Mercury	20486-03-07 20:38 G	9203484.28	9203484.36	9203484.45	0.0089	0.0075
Mercury	20486-06-03 22:33 G	9203572.40	9203572.44	9203572.51	0.0089	0.0083
Earth	20486-06-16 18:00 G	9203585.01	9203585.25	9203585.51	0.0089	0.0026
Moon	20486-06-16 21:07 G	9203585.15	9203585.38	9203585.64	0.0089	0.0022 *
Moon	20487-06-19 03:21 G	9203952.41	9203952.64	9203952.90	0.0089	0.0031
Earth	20487-06-19 06:57 G	9203952.56	9203952.79	9203953.05	0.0089	0.0027 *
Earth	20488-06-20 19:55 G	9204320.10	9204320.33	9204320.59	0.0089	0.0028
Moon	20488-06-20 23:31 G	9204320.24	9204320.48	9204320.75	0.0089	0.0023 *
Moon	20489-06-23 06:28 G	9204687.55	9204687.77	9204688.02	0.0089	0.0033
Earth	20489-06-23 09:21 G	9204687.65	9204687.89	9204688.14	0.0089	0.0028 *
Earth	20490-06-25 22:33 G	9205055.20	9205055.44	9205055.69	0.0089	0.0029
Moon	20490-06-26 00:43 G	9205055.28	9205055.53	9205055.80	0.0089	0.0024 *
Moon	20491-06-28 10:48 G	9205422.74	9205422.95	9205423.20	0.0089	0.0035
Earth	20491-06-28 11:45 G	9205422.75	9205422.99	9205423.24	0.0089	0.0029 *
Moon	20492-06-30 00:14 G	9205790.27	9205790.51	9205790.79	0.0089	0.0027
Earth	20492-06-30 00:43 G	9205790.31	9205790.53	9205790.79	0.0089	0.0031 *
Earth	20493-07-02 14:24 G	9206157.86	9206158.10	9206158.35	0.0089	0.0031
Moon	20493-07-02 15:21 G	9206157.92	9206158.14	9206158.39	0.0089	0.0036 *
Moon	20494-07-05 00:57 G	9206525.30	9206525.54	9206525.80	0.0089	0.0027
Earth	20494-07-05 03:50 G	9206525.42	9206525.66	9206525.91	0.0089	0.0032 *
Earth	20495-07-07 17:16 G	9206892.98	9206893.22	9206893.46	0.0089	0.0032
Moon	20495-07-07 19:55 G	9206893.12	9206893.33	9206893.58	0.0089	0.0037 *
Moon	20496-07-09 02:52 G	9207260.38	9207260.62	9207260.87	0.0090	0.0028
Earth	20496-07-09 06:14 G	9207260.53	9207260.76	9207261.02	0.0090	0.0033 *
Earth	20497-07-11 19:40 G	9207628.08	9207628.32	9207628.56	0.0090	0.0033
Moon	20497-07-11 23:02 G	9207628.23	9207628.46	9207628.71	0.0090	0.0038 *
Moon	20498-07-14 05:45 G	9207995.51	9207995.74	9207995.99	0.0090	0.0030
Earth	20498-07-14 08:38 G	9207995.64	9207995.86	9207996.12	0.0090	0.0034 *
Earth	20499-07-16 21:50 G	9208363.18	9208363.41	9208363.66	0.0090	0.0034

Moon	20499-07-17 00:28 G	9208363.30	9208363.52	9208363.78	0.0090	0.0038	*
Moon	20500-07-19 10:04 G	9208730.69	9208730.92	9208731.16	0.0090	0.0030	
Earth	20500-07-19 11:02 G	9208730.73	9208730.96	9208731.21	0.0090	0.0034	*
Earth	20501-07-22 00:28 G	9209098.28	9209098.52	9209098.76	0.0090	0.0034	
Moon	20501-07-22 00:14 G	9209098.28	9209098.51	9209098.77	0.0090	0.0038	*
Earth	20502-07-24 13:12 G	9209465.83	9209466.05	9209466.31	0.0090	0.0035	
Moon	20502-07-24 14:09 G	9209465.87	9209466.09	9209466.34	0.0090	0.0031	*
Moon	20503-07-27 00:00 G	9209833.27	9209833.50	9209833.75	0.0090	0.0039	
Earth	20503-07-27 02:24 G	9209833.38	9209833.60	9209833.86	0.0090	0.0035	*
Earth	20504-07-28 15:36 G	9210200.93	9210201.15	9210201.40	0.0090	0.0035	
Moon	20504-07-28 18:43 G	9210201.04	9210201.28	9210201.52	0.0090	0.0031	*
Moon	20505-07-31 01:12 G	9210568.34	9210568.55	9210568.81	0.0090	0.0039	
Earth	20505-07-31 05:02 G	9210568.48	9210568.71	9210568.96	0.0090	0.0035	*
Earth	20506-08-02 18:14 G	9210936.03	9210936.26	9210936.51	0.0090	0.0035	
Moon	20506-08-02 21:50 G	9210936.18	9210936.41	9210936.67	0.0090	0.0031	*
Moon	20507-08-05 04:19 G	9211303.46	9211303.68	9211303.92	0.0090	0.0038	
Earth	20507-08-05 07:26 G	9211303.59	9211303.81	9211304.06	0.0090	0.0035	*
Earth	20508-08-06 20:09 G	9211671.12	9211671.34	9211671.60	0.0090	0.0035	
Moon	20508-08-06 23:16 G	9211671.24	9211671.47	9211671.73	0.0090	0.0032	*
Moon	20509-08-09 08:09 G	9212038.63	9212038.84	9212039.08	0.0090	0.0038	
Earth	20509-08-09 09:36 G	9212038.67	9212038.90	9212039.15	0.0090	0.0034	*
Earth	20510-08-11 22:33 G	9212406.21	9212406.44	9212406.69	0.0090	0.0034	
Moon	20510-08-11 23:16 G	9212406.23	9212406.47	9212406.73	0.0090	0.0031	*
Earth	20511-08-14 11:16 G	9212773.75	9212773.97	9212774.23	0.0090	0.0034	
Moon	20511-08-14 12:14 G	9212773.78	9212774.01	9212774.24	0.0090	0.0036	*
Moon	20512-08-15 22:04 G	9213141.18	9213141.42	9213141.68	0.0090	0.0030	
Earth	20512-08-16 00:28 G	9213141.28	9213141.52	9213141.76	0.0090	0.0033	*
Earth	20513-08-18 12:57 G	9213508.81	9213509.04	9213509.30	0.0090	0.0033	
Moon	20513-08-18 15:50 G	9213508.93	9213509.16	9213509.39	0.0090	0.0035	*
Moon	20514-08-20 22:19 G	9213876.20	9213876.43	9213876.69	0.0090	0.0030	

Earth	20514-08-21 02:09 G	9213876.35	9213876.59	9213876.83	0.0090	0.0032	*
Earth	20515-08-23 14:38 G	9214243.88	9214244.11	9214244.37	0.0090	0.0032	
Moon	20515-08-23 18:14 G	9214244.04	9214244.26	9214244.51	0.0090	0.0034	*
Moon	20516-08-25 00:14 G	9214611.27	9214611.51	9214611.76	0.0090	0.0029	
Earth	20516-08-25 03:36 G	9214611.41	9214611.65	9214611.90	0.0090	0.0031	*
Earth	20517-08-27 16:04 G	9214978.94	9214979.17	9214979.43	0.0089	0.0031	
Moon	20517-08-27 19:26 G	9214979.07	9214979.31	9214979.56	0.0089	0.0032	*
Moon	20518-08-30 03:36 G	9215346.42	9215346.65	9215346.90	0.0089	0.0028	
Earth	20518-08-30 05:02 G	9215346.48	9215346.71	9215346.97	0.0089	0.0030	*
Earth	20519-09-01 17:45 G	9215714.01	9215714.24	9215714.49	0.0089	0.0029	
Moon	20519-09-01 18:57 G	9215714.04	9215714.29	9215714.54	0.0089	0.0030	*
Earth	20520-09-03 06:14 G	9216081.53	9216081.76	9216082.02	0.0089	0.0029	
Moon	20520-09-03 06:43 G	9216081.55	9216081.78	9216082.03	0.0089	0.0027	*
Moon	20521-09-05 17:02 G	9216448.97	9216449.21	9216449.47	0.0089	0.0029	
Earth	20521-09-05 18:57 G	9216449.06	9216449.29	9216449.55	0.0089	0.0028	*
Earth	20522-09-08 07:26 G	9216816.58	9216816.81	9216817.07	0.0089	0.0027	
Moon	20522-09-08 09:50 G	9216816.68	9216816.91	9216817.16	0.0089	0.0026	*
Moon	20523-09-10 16:33 G	9217183.95	9217184.19	9217184.45	0.0089	0.0027	
Earth	20523-09-10 19:55 G	9217184.09	9217184.33	9217184.59	0.0089	0.0026	*
Earth	20524-09-12 08:09 G	9217551.60	9217551.84	9217552.10	0.0089	0.0025	
Moon	20524-09-12 11:31 G	9217551.75	9217551.98	9217552.25	0.0089	0.0024	*
Moon	20525-09-14 17:16 G	9217918.98	9217919.22	9217919.47	0.0089	0.0024	
Earth	20525-09-14 20:38 G	9217919.12	9217919.36	9217919.61	0.0089	0.0023	*
Earth	20526-09-17 08:52 G	9218286.63	9218286.87	9218287.12	0.0089	0.0022	
Moon	20526-09-17 11:45 G	9218286.75	9218286.99	9218287.26	0.0089	0.0023	*
Mars	20527-04-04 08:52 G	9218485.76	9218485.87	9218486.04	0.0089	0.0078	
Moon	20527-09-19 19:12 G	9218654.07	9218654.30	9218654.55	0.0089	0.0022	
Earth	20527-09-19 20:52 G	9218654.13	9218654.37	9218654.63	0.0089	0.0022	*
Earth	20528-09-21 09:07 G	9219021.64	9219021.88	9219022.14	0.0089	0.0021	
Moon	20528-09-21 10:19 G	9219021.68	9219021.93	9219022.20	0.0089	0.0021	*

Mars	20529-02-26 06:57 G	9219179.49	9219179.79	9219180.08	0.0089	0.0002
Earth	20529-09-23 21:21 G	9219389.15	9219389.39	9219389.65	0.0089	0.0019
Moon	20529-09-23 21:36 G	9219389.17	9219389.40	9219389.65	0.0089	0.0020 *
Moon	20530-09-26 07:55 G	9219756.57	9219756.83	9219757.09	0.0089	0.0017
Earth	20530-09-26 09:36 G	9219756.66	9219756.90	9219757.16	0.0089	0.0018 *
Mars	20531-01-21 06:57 G	9219873.66	9219873.79	9219873.97	0.0089	0.0076
Earth	20531-09-28 21:36 G	9220124.16	9220124.40	9220124.67	0.0089	0.0017
Moon	20531-09-29 00:14 G	9220124.26	9220124.51	9220124.75	0.0089	0.0017 *
Moon	20532-09-30 06:14 G	9220491.52	9220491.76	9220492.03	0.0089	0.0017
Earth	20532-09-30 10:04 G	9220491.67	9220491.92	9220492.17	0.0089	0.0016 *
Earth	20533-10-02 21:50 G	9220859.16	9220859.41	9220859.67	0.0089	0.0014
Moon	20533-10-03 01:26 G	9220859.31	9220859.56	9220859.82	0.0089	0.0014 *
Moon	20534-10-05 06:14 G	9221226.52	9221226.76	9221227.02	0.0089	0.0014
Earth	20534-10-05 09:50 G	9221226.66	9221226.91	9221227.17	0.0089	0.0013 *
Earth	20535-10-07 21:21 G	9221594.14	9221594.39	9221594.65	0.0089	0.0012
Moon	20535-10-08 00:28 G	9221594.27	9221594.52	9221594.79	0.0089	0.0011 *
Moon	20536-10-09 07:26 G	9221961.56	9221961.81	9221962.06	0.0089	0.0011
Earth	20536-10-09 09:07 G	9221961.63	9221961.88	9221962.14	0.0089	0.0011 *
Earth	20537-10-11 20:52 G	9222329.11	9222329.37	9222329.63	0.0089	0.0009
Moon	20537-10-11 22:04 G	9222329.16	9222329.42	9222329.69	0.0089	0.0008 *
Earth	20538-10-14 08:24 G	9222696.59	9222696.85	9222697.11	0.0089	0.0008
Moon	20538-10-14 08:38 G	9222696.61	9222696.86	9222697.11	0.0089	0.0009 *
Moon	20539-10-16 18:00 G	9223063.99	9223064.25	9223064.52	0.0089	0.0006
Earth	20539-10-16 19:55 G	9223064.07	9223064.33	9223064.59	0.0089	0.0007 *
Earth	20540-10-18 07:26 G	9223431.55	9223431.81	9223432.06	0.0089	0.0005
Moon	20540-10-18 09:36 G	9223431.65	9223431.90	9223432.15	0.0089	0.0007 *
Moon	20541-10-20 15:21 G	9223798.88	9223799.14	9223799.40	0.0089	0.0003
Earth	20541-10-20 18:57 G	9223799.03	9223799.29	9223799.54	0.0089	0.0004 *
Earth	20542-10-23 06:14 G	9224166.50	9224166.76	9224167.02	0.0089	0.0003
Moon	20542-10-23 09:50 G	9224166.65	9224166.91	9224167.16	0.0089	0.0004 *

Moon	20543-10-25 14:09 G	9224533.84	9224534.09	9224534.35	0.0089	0.0001
Earth	20543-10-25 17:45 G	9224533.98	9224534.24	9224534.49	0.0089	0.0002 *
Earth	20544-10-27 05:02 G	9224901.45	9224901.71	9224901.97	0.0089	0.0000
Moon	20544-10-27 08:09 G	9224901.57	9224901.84	9224902.10	0.0089	0.0002 *
Moon	20545-10-29 14:38 G	9225268.86	9225269.11	9225269.36	0.0089	0.0003
Earth	20545-10-29 16:19 G	9225268.93	9225269.18	9225269.44	0.0089	0.0002 *
Earth	20546-11-01 03:21 G	9225636.39	9225636.64	9225636.90	0.0089	0.0003
Moon	20546-11-01 04:33 G	9225636.43	9225636.69	9225636.96	0.0089	0.0001 *
Earth	20547-11-03 14:24 G	9226003.85	9226004.10	9226004.36	0.0089	0.0005
Moon	20547-11-03 14:52 G	9226003.88	9226004.12	9226004.38	0.0089	0.0007 *
Moon	20548-11-04 23:31 G	9226371.22	9226371.48	9226371.75	0.0089	0.0005
Earth	20548-11-05 01:40 G	9226371.31	9226371.57	9226371.82	0.0089	0.0006 *
Earth	20549-11-07 12:28 G	9226738.76	9226739.02	9226739.28	0.0089	0.0007
Moon	20549-11-07 14:38 G	9226738.87	9226739.11	9226739.37	0.0089	0.0010 *
Moon	20550-11-09 19:40 G	9227106.07	9227106.32	9227106.58	0.0089	0.0006
Earth	20550-11-09 23:16 G	9227106.22	9227106.47	9227106.73	0.0089	0.0008 *
Earth	20551-11-12 09:50 G	9227473.66	9227473.91	9227474.17	0.0089	0.0010
Moon	20551-11-12 13:26 G	9227473.81	9227474.06	9227474.32	0.0089	0.0012 *
Moon	20552-11-13 17:16 G	9227840.98	9227841.22	9227841.48	0.0088	0.0009
Earth	20552-11-13 20:52 G	9227841.12	9227841.37	9227841.63	0.0088	0.0011 *
Earth	20553-11-16 07:26 G	9228208.56	9228208.81	9228209.07	0.0088	0.0012
Moon	20553-11-16 10:19 G	9228208.68	9228208.93	9228209.20	0.0088	0.0015 *
Venus	20554-01-30 06:14 G	9228283.72	9228283.76	9228283.85	0.0088	0.0085
Venus	20554-09-12 19:26 G	9228509.17	9228509.31	9228509.47	0.0088	0.0065
Moon	20554-11-18 16:48 G	9228575.96	9228576.20	9228576.45	0.0088	0.0011
Earth	20554-11-18 18:14 G	9228576.01	9228576.26	9228576.52	0.0088	0.0013 *
Venus	20555-04-26 08:38 G	9228734.67	9228734.86	9228735.05	0.0088	0.0045
Earth	20555-11-21 05:02 G	9228943.46	9228943.71	9228943.97	0.0088	0.0014
Moon	20555-11-21 05:45 G	9228943.49	9228943.74	9228944.01	0.0088	0.0018 *
Venus	20555-12-07 21:07 G	9228960.18	9228960.38	9228960.60	0.0088	0.0026

Venus	20556-07-20 10:19 G	9229185.71	9229185.93	9229186.15	0.0088	0.0006
Earth	20556-11-22 15:50 G	9229310.91	9229311.16	9229311.42	0.0088	0.0016
Moon	20556-11-22 16:33 G	9229310.95	9229311.19	9229311.44	0.0088	0.0013 *
Venus	20557-03-02 23:02 G	9229411.24	9229411.46	9229411.68	0.0088	0.0014
Venus	20557-10-14 11:31 G	9229636.80	9229636.98	9229637.20	0.0088	0.0035
Moon	20557-11-25 00:14 G	9229678.26	9229678.51	9229678.78	0.0088	0.0019
Earth	20557-11-25 02:24 G	9229678.36	9229678.60	9229678.86	0.0088	0.0017 *
Venus	20558-05-28 00:28 G	9229862.36	9229862.52	9229862.71	0.0088	0.0054
Earth	20558-11-27 12:57 G	9230045.80	9230046.04	9230046.30	0.0088	0.0018
Moon	20558-11-27 15:36 G	9230045.91	9230046.15	9230046.40	0.0088	0.0015 *
Venus	20559-01-08 12:57 G	9230087.94	9230088.04	9230088.19	0.0088	0.0074
Moon	20559-11-29 19:40 G	9230413.09	9230413.32	9230413.59	0.0088	0.0023
Earth	20559-11-29 23:31 G	9230413.24	9230413.48	9230413.74	0.0088	0.0019 *
Earth	20560-12-01 10:04 G	9230780.67	9230780.92	9230781.17	0.0088	0.0020
Moon	20560-12-01 13:40 G	9230780.82	9230781.07	9230781.32	0.0088	0.0018 *
Moon	20561-12-03 17:02 G	9231147.98	9231148.21	9231148.47	0.0088	0.0025
Earth	20561-12-03 20:38 G	9231148.11	9231148.36	9231148.61	0.0088	0.0021 *
Mercury	20562-11-09 07:26 G	9231488.76	9231488.81	9231488.87	0.0088	0.0081
Earth	20562-12-06 06:43 G	9231515.54	9231515.78	9231516.04	0.0088	0.0023
Moon	20562-12-06 09:21 G	9231515.64	9231515.89	9231516.15	0.0088	0.0019 *
Mercury	20563-02-05 09:07 G	9231576.81	9231576.88	9231576.97	0.0088	0.0074
Mercury	20563-05-04 11:16 G	9231664.87	9231664.97	9231665.07	0.0088	0.0066
Mercury	20563-07-31 12:57 G	9231752.94	9231753.04	9231753.16	0.0088	0.0059
Mercury	20563-10-27 14:38 G	9231841.00	9231841.11	9231841.24	0.0088	0.0052
Moon	20563-12-08 15:50 G	9231882.94	9231883.16	9231883.41	0.0088	0.0027
Earth	20563-12-08 17:16 G	9231882.98	9231883.22	9231883.47	0.0088	0.0023 *
Mercury	20564-01-23 16:48 G	9231929.07	9231929.20	9231929.33	0.0088	0.0045
Mercury	20564-04-20 18:28 G	9232017.14	9232017.27	9232017.41	0.0088	0.0037
Mercury	20564-07-17 20:24 G	9232105.21	9232105.35	9232105.50	0.0088	0.0030
Mercury	20564-10-13 22:19 G	9232193.29	9232193.43	9232193.58	0.0088	0.0022

Earth	20564-12-10 03:36 G	9232250.41	9232250.65	9232250.90	0.0088	0.0024
Moon	20564-12-10 04:04 G	9232250.42	9232250.67	9232250.93	0.0088	0.0021 *
Mercury	20565-01-10 00:14 G	9232281.36	9232281.51	9232281.66	0.0088	0.0015
Mercury	20565-04-08 02:09 G	9232369.44	9232369.59	9232369.74	0.0088	0.0007
Mercury	20565-07-05 04:04 G	9232457.52	9232457.67	9232457.82	0.0088	0.0000
Mercury	20565-10-01 06:00 G	9232545.60	9232545.75	9232545.90	0.0088	0.0008
Earth	20565-12-12 13:40 G	9232617.84	9232618.07	9232618.33	0.0088	0.0026
Moon	20565-12-12 15:07 G	9232617.90	9232618.13	9232618.37	0.0088	0.0028 *
Mercury	20565-12-28 07:55 G	9232633.68	9232633.83	9232633.98	0.0088	0.0015
Mercury	20566-03-26 09:50 G	9232721.76	9232721.91	9232722.06	0.0088	0.0023
Mercury	20566-06-22 11:31 G	9232809.85	9232809.98	9232810.13	0.0088	0.0031
Mercury	20566-09-18 13:40 G	9232897.93	9232898.07	9232898.21	0.0088	0.0038
Moon	20566-12-14 21:36 G	9232985.16	9232985.40	9232985.67	0.0088	0.0024
Earth	20566-12-15 00:14 G	9232985.27	9232985.51	9232985.76	0.0088	0.0026 *
Mercury	20566-12-15 15:21 G	9232986.02	9232986.14	9232986.28	0.0088	0.0046
Mercury	20567-03-13 17:16 G	9233074.11	9233074.22	9233074.36	0.0088	0.0054
Mercury	20567-06-09 19:26 G	9233162.21	9233162.31	9233162.43	0.0088	0.0061
Mercury	20567-09-05 21:21 G	9233250.31	9233250.39	9233250.50	0.0088	0.0069
Mercury	20567-12-02 23:16 G	9233338.41	9233338.47	9233338.56	0.0088	0.0077
Earth	20567-12-17 10:19 G	9233352.70	9233352.93	9233353.19	0.0088	0.0027
Moon	20567-12-17 13:12 G	9233352.82	9233353.05	9233353.30	0.0088	0.0031 *
Mercury	20568-02-29 01:12 G	9233426.53	9233426.55	9233426.61	0.0088	0.0085
Moon	20568-12-18 17:02 G	9233719.98	9233720.21	9233720.47	0.0088	0.0025
Earth	20568-12-18 20:52 G	9233720.13	9233720.37	9233720.62	0.0088	0.0028 *
Earth	20569-12-21 06:57 G	9234087.56	9234087.79	9234088.05	0.0088	0.0029
Moon	20569-12-21 10:33 G	9234087.71	9234087.94	9234088.19	0.0088	0.0032 *
Moon	20570-12-23 14:09 G	9234454.86	9234455.09	9234455.35	0.0088	0.0026
Earth	20570-12-23 17:16 G	9234455.00	9234455.22	9234455.48	0.0088	0.0030 *
Earth	20571-12-26 03:50 G	9234822.42	9234822.66	9234822.91	0.0088	0.0030
Moon	20571-12-26 05:45 G	9234822.51	9234822.74	9234823.00	0.0088	0.0034 *

Moon	20572-12-27 13:12 G	9235189.83	9235190.05	9235190.30	0.0088	0.0028
Earth	20572-12-27 13:55 G	9235189.85	9235190.08	9235190.34	0.0088	0.0031 *
Earth	20573-12-30 00:00 G	9235557.27	9235557.50	9235557.75	0.0088	0.0032
Moon	20573-12-30 00:00 G	9235557.27	9235557.50	9235557.76	0.0088	0.0035 *
Earth	20575-01-01 10:19 G	9235924.70	9235924.93	9235925.18	0.0088	0.0032
Moon	20575-01-01 11:45 G	9235924.77	9235924.99	9235925.24	0.0088	0.0029 *
Moon	20576-01-03 17:31 G	9236292.01	9236292.23	9236292.49	0.0088	0.0036
Earth	20576-01-03 20:09 G	9236292.12	9236292.34	9236292.60	0.0088	0.0033 *
Earth	20577-01-05 06:28 G	9236659.54	9236659.77	9236660.02	0.0088	0.0033
Moon	20577-01-05 09:36 G	9236659.67	9236659.90	9236660.15	0.0088	0.0029 *
Moon	20578-01-07 12:57 G	9237026.82	9237027.04	9237027.28	0.0088	0.0037
Earth	20578-01-07 16:48 G	9237026.97	9237027.20	9237027.44	0.0088	0.0033 *
Earth	20579-01-10 02:38 G	9237394.38	9237394.61	9237394.86	0.0088	0.0034
Moon	20579-01-10 06:00 G	9237394.51	9237394.75	9237395.00	0.0088	0.0030 *
Moon	20580-01-12 10:04 G	9237761.70	9237761.92	9237762.15	0.0088	0.0038
Earth	20580-01-12 12:57 G	9237761.81	9237762.04	9237762.29	0.0088	0.0034 *
Earth	20581-01-13 22:48 G	9238129.24	9238129.45	9238129.71	0.0088	0.0035
Moon	20581-01-14 00:43 G	9238129.30	9238129.53	9238129.79	0.0088	0.0031 *
Moon	20582-01-16 08:52 G	9238496.66	9238496.87	9238497.11	0.0088	0.0038
Earth	20582-01-16 09:07 G	9238496.66	9238496.88	9238497.13	0.0088	0.0035 *
Moon	20583-01-18 18:57 G	9238864.06	9238864.29	9238864.55	0.0088	0.0031
Earth	20583-01-18 19:26 G	9238864.09	9238864.31	9238864.56	0.0088	0.0035 *
Earth	20584-01-21 05:45 G	9239231.52	9239231.74	9239231.99	0.0088	0.0035
Moon	20584-01-21 07:55 G	9239231.62	9239231.83	9239232.06	0.0088	0.0039 *
Moon	20585-01-22 12:57 G	9239598.81	9239599.04	9239599.30	0.0088	0.0032
Earth	20585-01-22 16:04 G	9239598.94	9239599.17	9239599.41	0.0088	0.0035 *
Earth	20586-01-25 02:09 G	9239966.36	9239966.59	9239966.84	0.0088	0.0035
Moon	20586-01-25 05:31 G	9239966.51	9239966.73	9239966.97	0.0088	0.0039 *
Moon	20587-01-27 08:38 G	9240333.63	9240333.86	9240334.11	0.0088	0.0031
Earth	20587-01-27 12:14 G	9240333.79	9240334.01	9240334.26	0.0088	0.0035 *



Earth	20588-01-29 22:19 G	9240701.21	9240701.43	9240701.68	0.0088	0.0035
Moon	20588-01-30 01:26 G	9240701.34	9240701.56	9240701.81	0.0088	0.0039 *
Moon	20589-01-31 06:00 G	9241068.53	9241068.75	9241069.00	0.0088	0.0031
Earth	20589-01-31 08:38 G	9241068.64	9241068.86	9241069.11	0.0088	0.0035 *
Earth	20590-02-02 18:57 G	9241436.06	9241436.29	9241436.53	0.0088	0.0034
Moon	20590-02-02 20:09 G	9241436.11	9241436.34	9241436.58	0.0088	0.0038 *
Earth	20591-02-05 05:16 G	9241803.49	9241803.72	9241803.96	0.0088	0.0034
Moon	20591-02-05 05:02 G	9241803.49	9241803.71	9241803.96	0.0088	0.0031 *
Moon	20592-02-07 14:24 G	9242170.87	9242171.10	9242171.35	0.0088	0.0038
Earth	20592-02-07 15:21 G	9242170.92	9242171.14	9242171.39	0.0088	0.0034 *
Earth	20593-02-09 01:26 G	9242538.34	9242538.56	9242538.82	0.0088	0.0034
Moon	20593-02-09 04:04 G	9242538.45	9242538.67	9242538.92	0.0088	0.0030 *
Moon	20594-02-11 08:52 G	9242905.65	9242905.87	9242906.12	0.0088	0.0037
Earth	20594-02-11 12:14 G	9242905.78	9242906.01	9242906.26	0.0088	0.0033 *
Earth	20595-02-13 22:33 G	9243273.21	9243273.44	9243273.69	0.0088	0.0033
Moon	20595-02-14 02:24 G	9243273.35	9243273.60	9243273.84	0.0088	0.0028 *
Moon	20596-02-16 05:31 G	9243640.51	9243640.73	9243640.98	0.0088	0.0037
Earth	20596-02-16 09:21 G	9243640.65	9243640.89	9243641.13	0.0088	0.0032 *
Earth	20597-02-17 19:40 G	9244008.09	9244008.32	9244008.57	0.0088	0.0032
Moon	20597-02-17 22:33 G	9244008.20	9244008.44	9244008.70	0.0088	0.0028 *
Moon	20598-02-20 03:36 G	9244375.44	9244375.65	9244375.90	0.0088	0.0036
Earth	20598-02-20 06:14 G	9244375.53	9244375.76	9244376.01	0.0088	0.0031 *
Earth	20599-02-22 16:33 G	9244742.97	9244743.19	9244743.45	0.0088	0.0031
Moon	20599-02-22 17:45 G	9244742.99	9244743.24	9244743.50	0.0088	0.0026 *
Earth	20600-02-25 03:21 G	9245110.41	9245110.64	9245110.89	0.0088	0.0030
Moon	20600-02-25 03:36 G	9245110.44	9245110.65	9245110.90	0.0088	0.0034 *
Moon	20601-02-27 12:28 G	9245477.78	9245478.02	9245478.29	0.0088	0.0025
Earth	20601-02-27 13:55 G	9245477.85	9245478.08	9245478.33	0.0088	0.0029 *
Earth	20602-03-02 00:43 G	9245845.29	9245845.53	9245845.77	0.0088	0.0028
Moon	20602-03-02 03:07 G	9245845.41	9245845.63	9245845.88	0.0088	0.0033 *

Moon	20603-03-04 07:55 G	9246212.59	9246212.83	9246213.09	0.0088	0.0024
Earth	20603-03-04 11:02 G	9246212.73	9246212.96	9246213.22	0.0088	0.0028 *
Earth	20604-03-05 21:50 G	9246580.18	9246580.41	9246580.67	0.0088	0.0027
Moon	20604-03-06 01:40 G	9246580.33	9246580.57	9246580.81	0.0088	0.0031 *
Moon	20605-03-08 05:16 G	9246947.49	9246947.72	9246947.98	0.0088	0.0022
Earth	20605-03-08 08:52 G	9246947.63	9246947.87	9246948.12	0.0088	0.0026 *
Earth	20606-03-10 19:26 G	9247315.08	9247315.31	9247315.57	0.0088	0.0025
Moon	20606-03-10 22:19 G	9247315.19	9247315.43	9247315.69	0.0088	0.0029 *
Moon	20607-03-13 04:33 G	9247682.46	9247682.69	9247682.95	0.0088	0.0020
Earth	20607-03-13 06:43 G	9247682.54	9247682.78	9247683.04	0.0088	0.0024 *
Earth	20608-03-14 17:45 G	9248050.00	9248050.24	9248050.50	0.0088	0.0023
Moon	20608-03-14 18:14 G	9248050.01	9248050.26	9248050.52	0.0088	0.0027 *
Earth	20609-03-17 04:48 G	9248417.46	9248417.70	9248417.96	0.0088	0.0022
Moon	20609-03-17 05:31 G	9248417.49	9248417.73	9248417.98	0.0088	0.0018 *
Moon	20610-03-19 14:24 G	9248784.85	9248785.10	9248785.36	0.0088	0.0025
Earth	20610-03-19 15:50 G	9248784.92	9248785.16	9248785.42	0.0088	0.0021 *
Mars	20611-01-22 07:55 G	9249093.60	9249093.83	9249094.13	0.0088	0.0053
Earth	20611-03-22 03:07 G	9249152.39	9249152.63	9249152.89	0.0088	0.0020
Moon	20611-03-22 06:14 G	9249152.51	9249152.76	9249153.01	0.0088	0.0015 *
Moon	20612-03-23 10:48 G	9249519.71	9249519.95	9249520.22	0.0088	0.0023
Earth	20612-03-23 14:24 G	9249519.85	9249520.10	9249520.36	0.0088	0.0018 *
Mars	20612-12-18 03:07 G	9249789.35	9249789.63	9249789.97	0.0088	0.0033
Earth	20613-03-26 01:26 G	9249887.31	9249887.56	9249887.82	0.0088	0.0017
Moon	20613-03-26 05:02 G	9249887.46	9249887.71	9249887.97	0.0088	0.0013 *
Moon	20614-03-28 09:21 G	9250254.65	9250254.89	9250255.15	0.0088	0.0021
Earth	20614-03-28 12:43 G	9250254.78	9250255.03	9250255.29	0.0088	0.0016 *
Earth	20615-03-30 23:45 G	9250622.25	9250622.49	9250622.76	0.0088	0.0016
Moon	20615-03-31 02:24 G	9250622.35	9250622.60	9250622.88	0.0088	0.0012 *
Moon	20616-04-01 09:21 G	9250989.65	9250989.89	9250990.14	0.0088	0.0018
Earth	20616-04-01 11:31 G	9250989.72	9250989.98	9250990.24	0.0088	0.0014 *

Earth	20617-04-03 22:33 G	9251357.19	9251357.44	9251357.70	0.0088	0.0013
Moon	20617-04-03 22:48 G	9251357.19	9251357.45	9251357.73	0.0088	0.0008 *
Earth	20618-04-06 10:04 G	9251724.67	9251724.92	9251725.19	0.0088	0.0011
Moon	20618-04-06 10:48 G	9251724.71	9251724.95	9251725.21	0.0088	0.0015 *
Moon	20619-04-08 20:09 G	9252092.08	9252092.34	9252092.61	0.0088	0.0005
Earth	20619-04-08 21:50 G	9252092.16	9252092.41	9252092.67	0.0088	0.0010 *
Earth	20620-04-10 09:21 G	9252459.64	9252459.89	9252460.15	0.0088	0.0009
Moon	20620-04-10 12:28 G	9252459.77	9252460.02	9252460.27	0.0088	0.0013 *
Moon	20621-04-12 18:00 G	9252826.99	9252827.25	9252827.51	0.0088	0.0003
Earth	20621-04-12 21:21 G	9252827.13	9252827.39	9252827.65	0.0088	0.0007 *
Earth	20622-04-15 09:07 G	9253194.62	9253194.88	9253195.14	0.0088	0.0006
Moon	20622-04-15 12:43 G	9253194.78	9253195.03	9253195.29	0.0088	0.0010 *
Moon	20623-04-17 17:45 G	9253561.99	9253562.24	9253562.50	0.0088	0.0001
Earth	20623-04-17 20:52 G	9253562.12	9253562.37	9253562.64	0.0088	0.0005 *
Earth	20624-04-19 08:52 G	9253929.61	9253929.87	9253930.13	0.0088	0.0003
Moon	20624-04-19 11:31 G	9253929.71	9253929.98	9253930.24	0.0088	0.0007 *
Moon	20625-04-21 18:43 G	9254297.03	9254297.28	9254297.53	0.0088	0.0003
Earth	20625-04-21 20:38 G	9254297.10	9254297.36	9254297.62	0.0088	0.0002 *
Earth	20626-04-24 08:38 G	9254664.60	9254664.86	9254665.12	0.0089	0.0001
Moon	20626-04-24 08:38 G	9254664.60	9254664.86	9254665.13	0.0089	0.0005 *
Earth	20627-04-26 20:38 G	9255032.10	9255032.36	9255032.62	0.0089	0.0002
Moon	20627-04-26 21:07 G	9255032.14	9255032.38	9255032.63	0.0089	0.0005 *
Moon	20628-04-28 06:43 G	9255399.51	9255399.78	9255400.04	0.0089	0.0002
Earth	20628-04-28 08:24 G	9255399.59	9255399.85	9255400.11	0.0089	0.0003 *
Earth	20629-04-30 20:24 G	9255767.09	9255767.35	9255767.61	0.0089	0.0004
Moon	20629-04-30 23:31 G	9255767.23	9255767.48	9255767.73	0.0089	0.0008 *
Moon	20630-05-03 05:16 G	9256134.46	9256134.72	9256134.99	0.0089	0.0002
Earth	20630-05-03 08:38 G	9256134.60	9256134.86	9256135.12	0.0089	0.0006 *
Earth	20631-05-05 20:52 G	9256502.11	9256502.37	9256502.63	0.0089	0.0007
Moon	20631-05-06 00:43 G	9256502.27	9256502.53	9256502.78	0.0089	0.0011 *

Moon	20632-05-07 06:00 G	9256869.50	9256869.75	9256870.01	0.0089	0.0004
Earth	20632-05-07 09:07 G	9256869.63	9256869.88	9256870.15	0.0089	0.0009 *
Earth	20633-05-09 21:36 G	9257237.14	9257237.40	9257237.66	0.0089	0.0010
Moon	20633-05-10 00:28 G	9257237.26	9257237.52	9257237.78	0.0089	0.0013 *
Moon	20634-05-12 08:09 G	9257604.60	9257604.84	9257605.10	0.0089	0.0008
Earth	20634-05-12 10:19 G	9257604.67	9257604.93	9257605.19	0.0089	0.0011 *
Earth	20635-05-14 22:48 G	9257972.20	9257972.45	9257972.71	0.0089	0.0013
Moon	20635-05-14 23:16 G	9257972.21	9257972.47	9257972.73	0.0089	0.0016 *
Earth	20636-05-16 11:16 G	9258339.72	9258339.97	9258340.23	0.0089	0.0014
Moon	20636-05-16 11:45 G	9258339.74	9258339.99	9258340.24	0.0089	0.0011 *
Moon	20637-05-18 22:04 G	9258707.17	9258707.42	9258707.69	0.0089	0.0019
Earth	20637-05-19 00:00 G	9258707.24	9258707.50	9258707.76	0.0089	0.0015 *
Venus	20637-06-11 14:52 G	9258731.06	9258731.12	9258731.20	0.0089	0.0084
Venus	20638-01-23 04:04 G	9258956.53	9258956.67	9258956.83	0.0089	0.0064
Earth	20638-05-21 12:14 G	9259074.77	9259075.01	9259075.28	0.0089	0.0017
Moon	20638-05-21 15:21 G	9259074.90	9259075.14	9259075.40	0.0089	0.0013 *
Venus	20638-09-05 17:16 G	9259182.04	9259182.22	9259182.42	0.0089	0.0044
Venus	20639-04-19 06:28 G	9259407.56	9259407.77	9259407.99	0.0089	0.0024
Moon	20639-05-23 21:50 G	9259442.16	9259442.41	9259442.67	0.0089	0.0021
Earth	20639-05-24 00:57 G	9259442.30	9259442.54	9259442.81	0.0089	0.0018 *
Venus	20639-11-30 19:40 G	9259633.10	9259633.32	9259633.54	0.0089	0.0004
Earth	20640-05-25 13:40 G	9259809.82	9259810.07	9259810.33	0.0089	0.0019
Moon	20640-05-25 17:31 G	9259809.98	9259810.23	9259810.49	0.0089	0.0016 *
Venus	20640-07-13 08:38 G	9259858.65	9259858.86	9259859.08	0.0089	0.0016
Venus	20641-02-23 21:50 G	9260084.22	9260084.41	9260084.62	0.0089	0.0036
Moon	20641-05-27 23:02 G	9260177.22	9260177.46	9260177.72	0.0089	0.0024
Earth	20641-05-28 02:24 G	9260177.36	9260177.60	9260177.86	0.0089	0.0020 *
Venus	20641-10-07 11:02 G	9260309.80	9260309.96	9260310.14	0.0089	0.0056
Venus	20642-05-21 00:00 G	9260535.40	9260535.50	9260535.63	0.0089	0.0076
Earth	20642-05-30 14:52 G	9260544.89	9260545.12	9260545.39	0.0089	0.0023

Moon	20642-05-30 18:14 G	9260545.01	9260545.26	9260545.52	0.0089	0.0019 *
Moon	20643-06-02 02:09 G	9260912.35	9260912.59	9260912.83	0.0089	0.0025
Earth	20643-06-02 03:50 G	9260912.43	9260912.66	9260912.93	0.0089	0.0023 *
Earth	20644-06-03 16:48 G	9261279.96	9261280.20	9261280.46	0.0089	0.0024
Moon	20644-06-03 17:16 G	9261279.97	9261280.22	9261280.49	0.0089	0.0021 *
Earth	20645-06-06 05:45 G	9261647.50	9261647.74	9261648.00	0.0089	0.0025
Moon	20645-06-06 06:00 G	9261647.52	9261647.75	9261647.99	0.0089	0.0027 *
Mercury	20646-05-05 21:36 G	9261981.35	9261981.40	9261981.46	0.0089	0.0084
Moon	20646-06-08 17:16 G	9262014.98	9262015.22	9262015.49	0.0089	0.0024
Earth	20646-06-08 18:57 G	9262015.05	9262015.29	9262015.55	0.0089	0.0026 *
Mercury	20646-08-01 23:45 G	9262069.42	9262069.49	9262069.60	0.0089	0.0076
Mercury	20646-10-29 02:24 G	9262157.51	9262157.60	9262157.73	0.0089	0.0067
Mercury	20647-01-25 05:02 G	9262245.59	9262245.71	9262245.85	0.0089	0.0058
Mercury	20647-04-23 07:26 G	9262333.68	9262333.81	9262333.96	0.0089	0.0049
Earth	20647-06-11 07:55 G	9262382.59	9262382.83	9262383.09	0.0089	0.0027
Moon	20647-06-11 10:33 G	9262382.72	9262382.94	9262383.19	0.0089	0.0030 *
Mercury	20647-07-20 10:04 G	9262421.78	9262421.92	9262422.07	0.0089	0.0040
Mercury	20647-10-16 12:43 G	9262509.87	9262510.03	9262510.18	0.0089	0.0032
Mercury	20648-01-12 14:52 G	9262597.97	9262598.12	9262598.29	0.0089	0.0023
Mercury	20648-04-09 17:31 G	9262686.07	9262686.23	9262686.39	0.0089	0.0015
Moon	20648-06-12 18:00 G	9262750.01	9262750.25	9262750.51	0.0089	0.0027
Earth	20648-06-12 21:07 G	9262750.14	9262750.38	9262750.64	0.0089	0.0028 *
Mercury	20648-07-06 19:55 G	9262774.17	9262774.33	9262774.49	0.0089	0.0006
Mercury	20648-10-02 22:19 G	9262862.27	9262862.43	9262862.59	0.0089	0.0002
Mercury	20648-12-30 00:43 G	9262950.37	9262950.53	9262950.69	0.0089	0.0011
Mercury	20649-03-28 02:52 G	9263038.47	9263038.62	9263038.79	0.0089	0.0020
Earth	20649-06-15 10:04 G	9263117.69	9263117.92	9263118.18	0.0089	0.0029
Moon	20649-06-15 13:40 G	9263117.85	9263118.07	9263118.33	0.0089	0.0031 *
Mercury	20649-06-24 05:31 G	9263126.57	9263126.73	9263126.88	0.0089	0.0028
Mercury	20649-09-20 07:40 G	9263214.68	9263214.82	9263214.97	0.0089	0.0036

Mercury	20649-12-17 09:50 G	9263302.78	9263302.91	9263303.06	0.0089	0.0045
Mercury	20650-03-15 12:14 G	9263390.89	9263391.01	9263391.15	0.0089	0.0053
Mercury	20650-06-11 14:38 G	9263479.00	9263479.11	9263479.23	0.0089	0.0061
Moon	20650-06-17 19:40 G	9263485.10	9263485.32	9263485.58	0.0089	0.0029
Earth	20650-06-17 23:16 G	9263485.24	9263485.47	9263485.73	0.0089	0.0030 *
Mercury	20650-09-07 17:02 G	9263567.11	9263567.21	9263567.31	0.0089	0.0069
Mercury	20650-12-04 18:57 G	9263655.23	9263655.29	9263655.39	0.0089	0.0077
Mercury	20651-03-02 21:21 G	9263743.36	9263743.39	9263743.45	0.0089	0.0085
Earth	20651-06-20 12:14 G	9263852.78	9263853.01	9263853.27	0.0089	0.0031
Moon	20651-06-20 15:36 G	9263852.91	9263853.15	9263853.41	0.0089	0.0032 *
Moon	20652-06-21 23:02 G	9264220.23	9264220.46	9264220.70	0.0089	0.0031
Earth	20652-06-22 01:26 G	9264220.32	9264220.56	9264220.81	0.0089	0.0032 *
Earth	20653-06-24 14:24 G	9264587.87	9264588.10	9264588.35	0.0089	0.0033
Moon	20653-06-24 15:21 G	9264587.90	9264588.14	9264588.40	0.0089	0.0034 *
Moon	20654-06-27 03:21 G	9264955.41	9264955.64	9264955.88	0.0089	0.0033
Earth	20654-06-27 03:21 G	9264955.42	9264955.64	9264955.90	0.0089	0.0034 *
Moon	20655-06-29 15:21 G	9265322.90	9265323.14	9265323.40	0.0089	0.0035
Earth	20655-06-29 16:48 G	9265322.96	9265323.20	9265323.44	0.0089	0.0034 *
Earth	20656-07-01 05:31 G	9265690.51	9265690.73	9265690.99	0.0089	0.0035
Moon	20656-07-01 07:55 G	9265690.61	9265690.83	9265691.08	0.0089	0.0034 *
Moon	20657-07-03 15:50 G	9266057.94	9266058.16	9266058.42	0.0089	0.0036
Earth	20657-07-03 18:43 G	9266058.06	9266058.28	9266058.54	0.0089	0.0036 *
Earth	20658-07-06 08:09 G	9266425.62	9266425.84	9266426.09	0.0089	0.0036
Moon	20658-07-06 11:45 G	9266425.77	9266425.99	9266426.24	0.0089	0.0036 *
Jupiter	20659-04-26 21:36 G	9266720.04	9266720.40	9266720.87	0.0089	0.0055
Moon	20659-07-08 18:00 G	9266793.03	9266793.25	9266793.50	0.0089	0.0037
Earth	20659-07-08 21:50 G	9266793.17	9266793.41	9266793.65	0.0089	0.0036 *
Earth	20660-07-10 10:33 G	9267160.72	9267160.94	9267161.19	0.0089	0.0037
Moon	20660-07-10 13:55 G	9267160.86	9267161.08	9267161.34	0.0089	0.0038 *
Moon	20661-07-12 21:21 G	9267528.18	9267528.39	9267528.64	0.0090	0.0037

Earth	20661-07-13 00:00 G	9267528.28	9267528.50	9267528.75	0.0090	0.0037	*
Earth	20662-07-15 13:26 G	9267895.83	9267896.06	9267896.30	0.0090	0.0037	
Moon	20662-07-15 14:38 G	9267895.88	9267896.11	9267896.37	0.0090	0.0038	*
Moon	20663-07-18 01:55 G	9268263.35	9268263.58	9268263.81	0.0090	0.0036	
Earth	20663-07-18 02:09 G	9268263.38	9268263.59	9268263.85	0.0090	0.0038	*
Moon	20664-07-19 14:52 G	9268630.88	9268631.12	9268631.36	0.0090	0.0038	
Earth	20664-07-19 15:21 G	9268630.92	9268631.14	9268631.39	0.0090	0.0038	*
Earth	20665-07-22 04:33 G	9268998.47	9268998.69	9268998.94	0.0090	0.0038	
Moon	20665-07-22 06:43 G	9268998.56	9268998.78	9268999.02	0.0090	0.0037	*
Moon	20666-07-24 15:21 G	9269365.91	9269366.14	9269366.38	0.0090	0.0039	
Earth	20666-07-24 17:45 G	9269366.02	9269366.24	9269366.49	0.0090	0.0038	*
Earth	20667-07-27 06:43 G	9269733.56	9269733.78	9269734.03	0.0090	0.0038	
Moon	20667-07-27 10:33 G	9269733.71	9269733.94	9269734.18	0.0090	0.0036	*
Moon	20668-07-28 16:33 G	9270100.97	9270101.19	9270101.43	0.0090	0.0039	
Earth	20668-07-28 19:55 G	9270101.11	9270101.33	9270101.58	0.0090	0.0038	*
Earth	20669-07-31 09:07 G	9270468.66	9270468.88	9270469.13	0.0090	0.0037	
Moon	20669-07-31 12:43 G	9270468.80	9270469.03	9270469.28	0.0090	0.0035	*
Moon	20670-08-02 19:55 G	9270836.11	9270836.33	9270836.56	0.0090	0.0039	
Earth	20670-08-02 22:33 G	9270836.21	9270836.44	9270836.69	0.0090	0.0037	*
Earth	20671-08-05 11:31 G	9271203.76	9271203.98	9271204.23	0.0090	0.0037	
Moon	20671-08-05 13:26 G	9271203.83	9271204.06	9271204.32	0.0090	0.0035	*
Moon	20672-08-06 23:31 G	9271571.28	9271571.48	9271571.73	0.0090	0.0040	
Earth	20672-08-07 00:43 G	9271571.31	9271571.53	9271571.78	0.0090	0.0037	*
Moon	20673-08-09 13:26 G	9271938.83	9271939.06	9271939.32	0.0090	0.0034	
Earth	20673-08-09 14:24 G	9271938.86	9271939.10	9271939.34	0.0090	0.0036	*
Earth	20674-08-12 03:07 G	9272306.41	9272306.63	9272306.88	0.0090	0.0036	
Moon	20674-08-12 04:48 G	9272306.48	9272306.70	9272306.93	0.0090	0.0038	*
Moon	20675-08-14 13:55 G	9272673.84	9272674.08	9272674.34	0.0090	0.0032	
Earth	20675-08-14 16:04 G	9272673.95	9272674.17	9272674.43	0.0090	0.0036	*
Earth	20676-08-16 05:02 G	9273041.48	9273041.71	9273041.96	0.0090	0.0035	

Moon	20676-08-16 08:24 G	9273041.63	9273041.85	9273042.09	0.0090	0.0038	*
Moon	20677-08-18 14:52 G	9273408.88	9273409.12	9273409.36	0.0090	0.0031	
Earth	20677-08-18 18:14 G	9273409.03	9273409.26	9273409.50	0.0090	0.0034	*
Earth	20678-08-21 06:43 G	9273776.56	9273776.78	9273777.04	0.0090	0.0034	
Moon	20678-08-21 10:19 G	9273776.71	9273776.93	9273777.19	0.0090	0.0038	*
Moon	20679-08-23 16:33 G	9274143.97	9274144.19	9274144.45	0.0090	0.0030	
Earth	20679-08-23 19:40 G	9274144.09	9274144.32	9274144.57	0.0090	0.0033	*
Earth	20680-08-25 08:24 G	9274511.62	9274511.85	9274512.10	0.0090	0.0032	
Moon	20680-08-25 10:19 G	9274511.71	9274511.93	9274512.20	0.0090	0.0036	*
Moon	20681-08-27 19:40 G	9274879.10	9274879.32	9274879.58	0.0089	0.0028	
Earth	20681-08-27 21:36 G	9274879.16	9274879.40	9274879.64	0.0089	0.0031	*
Moon	20682-08-30 09:36 G	9275246.67	9275246.90	9275247.16	0.0089	0.0034	
Earth	20682-08-30 10:19 G	9275246.68	9275246.93	9275247.17	0.0089	0.0030	*
Earth	20683-09-01 22:33 G	9275614.22	9275614.44	9275614.70	0.0089	0.0030	
Moon	20683-09-02 00:14 G	9275614.27	9275614.51	9275614.75	0.0089	0.0026	*
Moon	20684-09-03 09:21 G	9275981.66	9275981.89	9275982.15	0.0089	0.0032	
Earth	20684-09-03 11:31 G	9275981.75	9275981.98	9275982.24	0.0089	0.0028	*
Earth	20685-09-06 00:14 G	9276349.28	9276349.51	9276349.77	0.0089	0.0028	
Moon	20685-09-06 03:36 G	9276349.42	9276349.65	9276349.91	0.0089	0.0023	*
Moon	20686-09-08 09:50 G	9276716.67	9276716.91	9276717.16	0.0089	0.0030	
Earth	20686-09-08 12:57 G	9276716.81	9276717.04	9276717.30	0.0089	0.0027	*
Earth	20687-09-11 01:12 G	9277084.32	9277084.55	9277084.82	0.0089	0.0026	
Moon	20687-09-11 05:02 G	9277084.47	9277084.71	9277084.98	0.0089	0.0021	*
Moon	20688-09-12 10:48 G	9277451.73	9277451.95	9277452.21	0.0089	0.0029	
Earth	20688-09-12 14:09 G	9277451.84	9277452.09	9277452.34	0.0089	0.0024	*
Earth	20689-09-15 02:24 G	9277819.36	9277819.60	9277819.86	0.0089	0.0023	
Moon	20689-09-15 04:48 G	9277819.45	9277819.70	9277819.97	0.0089	0.0019	*
Moon	20690-09-17 13:12 G	9278186.81	9278187.05	9278187.29	0.0089	0.0026	
Earth	20690-09-17 14:38 G	9278186.87	9278187.11	9278187.37	0.0089	0.0021	*
Moon	20691-09-20 02:38 G	9278554.36	9278554.61	9278554.88	0.0089	0.0016	



Earth	20691-09-20 02:38 G	9278554.37	9278554.61	9278554.88	0.0089	0.0021 *
Earth	20692-09-21 15:07 G	9278921.88	9278922.13	9278922.38	0.0089	0.0019
Moon	20692-09-21 15:50 G	9278921.93	9278922.16	9278922.41	0.0089	0.0023 *
Mars	20692-10-12 10:19 G	9278942.67	9278942.93	9278943.22	0.0089	0.0034
Moon	20693-09-24 00:57 G	9279289.29	9279289.54	9279289.82	0.0089	0.0014
Earth	20693-09-24 03:21 G	9279289.39	9279289.64	9279289.89	0.0089	0.0018 *
Mars	20694-09-06 07:55 G	9279636.60	9279636.83	9279637.11	0.0089	0.0044
Earth	20694-09-26 15:07 G	9279656.89	9279657.13	9279657.39	0.0089	0.0017
Moon	20694-09-26 18:28 G	9279657.03	9279657.27	9279657.52	0.0089	0.0021 *
Moon	20695-09-29 00:00 G	9280024.25	9280024.50	9280024.76	0.0089	0.0011
Earth	20695-09-29 03:07 G	9280024.39	9280024.63	9280024.90	0.0089	0.0016 *
Earth	20696-09-30 15:21 G	9280391.89	9280392.14	9280392.40	0.0089	0.0014
Moon	20696-09-30 19:12 G	9280392.05	9280392.30	9280392.55	0.0089	0.0018 *
Moon	20697-10-03 00:43 G	9280759.28	9280759.53	9280759.78	0.0089	0.0008
Earth	20697-10-03 03:36 G	9280759.40	9280759.65	9280759.91	0.0089	0.0012 *
Earth	20698-10-05 15:21 G	9281126.89	9281127.14	9281127.40	0.0089	0.0011
Moon	20698-10-05 18:00 G	9281127.00	9281127.25	9281127.52	0.0089	0.0015 *
Moon	20699-10-08 01:55 G	9281494.33	9281494.58	9281494.83	0.0089	0.0005
Earth	20699-10-08 03:36 G	9281494.39	9281494.65	9281494.90	0.0089	0.0009 *
Moon	20700-10-10 15:07 G	9281861.87	9281862.13	9281862.40	0.0089	0.0012
Earth	20700-10-10 15:21 G	9281861.88	9281862.14	9281862.40	0.0089	0.0008 *
Earth	20701-10-13 02:52 G	9282229.37	9282229.62	9282229.88	0.0089	0.0007
Moon	20701-10-13 03:50 G	9282229.41	9282229.66	9282229.91	0.0089	0.0002 *
Moon	20702-10-15 12:28 G	9282596.76	9282597.02	9282597.29	0.0089	0.0010
Earth	20702-10-15 14:38 G	9282596.86	9282597.11	9282597.37	0.0089	0.0005 *
Earth	20703-10-18 01:55 G	9282964.33	9282964.58	9282964.84	0.0089	0.0004
Moon	20703-10-18 05:16 G	9282964.47	9282964.72	9282964.97	0.0089	0.0001 *
Moon	20704-10-19 10:19 G	9283331.67	9283331.93	9283332.19	0.0089	0.0006
Earth	20704-10-19 13:40 G	9283331.82	9283332.07	9283332.33	0.0089	0.0002 *
Earth	20705-10-22 01:12 G	9283699.29	9283699.55	9283699.81	0.0089	0.0001

Moon	20705-10-22 04:48 G	9283699.45	9283699.70	9283699.96	0.0089	0.0004 *
Moon	20706-10-24 09:36 G	9284066.65	9284066.90	9284067.15	0.0089	0.0004
Earth	20706-10-24 12:28 G	9284066.77	9284067.02	9284067.28	0.0089	0.0001 *
Earth	20707-10-26 23:45 G	9284434.24	9284434.49	9284434.75	0.0089	0.0003
Moon	20707-10-27 02:24 G	9284434.34	9284434.60	9284434.87	0.0089	0.0007 *
Moon	20708-10-28 09:50 G	9284801.66	9284801.91	9284802.16	0.0089	0.0001
Earth	20708-10-28 11:31 G	9284801.72	9284801.98	9284802.23	0.0089	0.0004 *
Moon	20709-10-30 22:19 G	9285169.17	9285169.43	9285169.70	0.0089	0.0010
Earth	20709-10-30 22:33 G	9285169.19	9285169.44	9285169.70	0.0089	0.0006 *
Earth	20710-11-02 10:04 G	9285536.66	9285536.92	9285537.18	0.0089	0.0007
Moon	20710-11-02 11:02 G	9285536.71	9285536.96	9285537.21	0.0089	0.0003 *
Moon	20711-11-04 18:57 G	9285904.04	9285904.29	9285904.56	0.0089	0.0013
Earth	20711-11-04 21:07 G	9285904.14	9285904.38	9285904.65	0.0089	0.0009 *
Earth	20712-11-06 08:24 G	9286271.60	9286271.85	9286272.11	0.0089	0.0010
Moon	20712-11-06 11:31 G	9286271.74	9286271.98	9286272.24	0.0089	0.0006 *
Moon	20713-11-08 16:04 G	9286638.93	9286639.17	9286639.43	0.0089	0.0016
Earth	20713-11-08 19:40 G	9286639.07	9286639.32	9286639.58	0.0089	0.0011 *
Earth	20714-11-11 06:28 G	9287006.52	9287006.77	9287007.02	0.0089	0.0013
Moon	20714-11-11 10:04 G	9287006.67	9287006.92	9287007.18	0.0089	0.0008 *
Moon	20715-11-13 14:24 G	9287373.87	9287374.10	9287374.36	0.0089	0.0019
Earth	20715-11-13 17:31 G	9287373.98	9287374.23	9287374.48	0.0089	0.0014 *
Earth	20716-11-15 04:04 G	9287741.43	9287741.67	9287741.94	0.0089	0.0016
Moon	20716-11-15 06:43 G	9287741.52	9287741.78	9287742.05	0.0089	0.0012 *
Moon	20717-11-17 13:55 G	9288108.84	9288109.08	9288109.32	0.0088	0.0021
Earth	20717-11-17 15:07 G	9288108.88	9288109.13	9288109.39	0.0088	0.0017 *
Moon	20718-11-20 01:26 G	9288476.30	9288476.56	9288476.83	0.0088	0.0014
Earth	20718-11-20 01:55 G	9288476.33	9288476.58	9288476.83	0.0088	0.0018 *
Venus	20718-12-17 04:19 G	9288503.58	9288503.68	9288503.82	0.0088	0.0074
Venus	20719-07-30 17:16 G	9288729.06	9288729.22	9288729.41	0.0088	0.0055
Earth	20719-11-22 12:28 G	9288843.78	9288844.02	9288844.28	0.0088	0.0019

Moon	20719-11-22 13:55 G	9288843.84	9288844.08	9288844.32	0.0088	0.0023 *
Venus	20720-03-12 06:28 G	9288954.57	9288954.77	9288954.98	0.0088	0.0035
Venus	20720-10-23 19:12 G	9289180.09	9289180.30	9289180.53	0.0088	0.0015
Moon	20720-11-23 20:52 G	9289211.12	9289211.37	9289211.63	0.0088	0.0016
Earth	20720-11-23 23:16 G	9289211.23	9289211.47	9289211.73	0.0088	0.0021 *
Venus	20721-06-06 08:09 G	9289405.62	9289405.84	9289406.06	0.0088	0.0005
Earth	20721-11-26 10:04 G	9289578.68	9289578.92	9289579.18	0.0088	0.0022
Moon	20721-11-26 13:12 G	9289578.82	9289579.05	9289579.31	0.0088	0.0026 *
Venus	20722-01-17 20:52 G	9289631.17	9289631.37	9289631.59	0.0088	0.0025
Venus	20722-08-31 09:36 G	9289856.73	9289856.90	9289857.11	0.0088	0.0045
Moon	20722-11-28 17:16 G	9289945.98	9289946.22	9289946.48	0.0088	0.0019
Earth	20722-11-28 20:38 G	9289946.13	9289946.36	9289946.62	0.0088	0.0023 *
Venus	20723-04-13 22:48 G	9290082.30	9290082.45	9290082.61	0.0088	0.0064
Venus	20723-11-25 11:16 G	9290307.92	9290307.97	9290308.06	0.0088	0.0083
Earth	20723-12-01 07:26 G	9290313.57	9290313.81	9290314.07	0.0088	0.0024
Moon	20723-12-01 11:02 G	9290313.73	9290313.96	9290314.22	0.0088	0.0028 *
Moon	20724-12-02 15:36 G	9290680.91	9290681.15	9290681.40	0.0088	0.0021
Earth	20724-12-02 18:14 G	9290681.02	9290681.26	9290681.51	0.0088	0.0025 *
Earth	20725-12-05 04:33 G	9291048.46	9291048.69	9291048.95	0.0088	0.0026
Moon	20725-12-05 06:43 G	9291048.54	9291048.78	9291049.04	0.0088	0.0030 *
Moon	20726-12-07 14:24 G	9291415.86	9291416.10	9291416.34	0.0088	0.0023
Earth	20726-12-07 15:07 G	9291415.89	9291416.13	9291416.38	0.0088	0.0027 *
Mercury	20727-05-12 04:33 G	9291571.67	9291571.69	9291571.73	0.0088	0.0086
Mercury	20727-08-08 06:14 G	9291659.71	9291659.76	9291659.84	0.0088	0.0080
Mercury	20727-11-04 08:09 G	9291747.77	9291747.84	9291747.94	0.0088	0.0072
Moon	20727-12-10 00:28 G	9291783.29	9291783.52	9291783.79	0.0088	0.0033
Earth	20727-12-10 01:26 G	9291783.33	9291783.56	9291783.82	0.0088	0.0028 *
Mercury	20728-01-31 10:04 G	9291835.83	9291835.92	9291836.03	0.0088	0.0065
Mercury	20728-04-28 12:00 G	9291923.89	9291924.00	9291924.12	0.0088	0.0057
Mercury	20728-07-25 13:40 G	9292011.96	9292012.07	9292012.21	0.0088	0.0050

Mercury	20728-10-21 15:50 G	9292100.03	9292100.16	9292100.29	0.0088	0.0042
Earth	20728-12-11 11:45 G	9292150.76	9292150.99	9292151.24	0.0088	0.0029
Moon	20728-12-11 13:12 G	9292150.82	9292151.05	9292151.30	0.0088	0.0026 *
Mercury	20729-01-17 17:31 G	9292188.10	9292188.23	9292188.37	0.0088	0.0035
Mercury	20729-04-15 19:12 G	9292276.17	9292276.30	9292276.46	0.0088	0.0029
Mercury	20729-07-12 21:21 G	9292364.24	9292364.39	9292364.54	0.0088	0.0020
Mercury	20729-10-08 23:16 G	9292452.32	9292452.47	9292452.62	0.0088	0.0013
Moon	20729-12-13 19:12 G	9292518.07	9292518.30	9292518.56	0.0088	0.0034
Earth	20729-12-13 22:04 G	9292518.19	9292518.42	9292518.68	0.0088	0.0030 *
Mercury	20730-01-05 01:12 G	9292540.40	9292540.55	9292540.70	0.0088	0.0005
Mercury	20730-04-03 03:07 G	9292628.47	9292628.63	9292628.78	0.0088	0.0003
Mercury	20730-06-30 04:48 G	9292716.55	9292716.70	9292716.86	0.0088	0.0010
Mercury	20730-09-26 06:43 G	9292804.64	9292804.78	9292804.94	0.0088	0.0018
Earth	20730-12-16 08:09 G	9292885.62	9292885.84	9292886.10	0.0088	0.0031
Moon	20730-12-16 11:45 G	9292885.76	9292885.99	9292886.24	0.0088	0.0027 *
Mercury	20730-12-23 08:38 G	9292892.72	9292892.86	9292893.01	0.0088	0.0025
Mercury	20731-03-21 10:33 G	9292980.80	9292980.94	9292981.09	0.0088	0.0033
Mercury	20731-06-17 12:28 G	9293068.89	9293069.02	9293069.16	0.0088	0.0040
Mercury	20731-09-13 14:24 G	9293156.98	9293157.10	9293157.24	0.0088	0.0048
Mercury	20731-12-10 16:19 G	9293245.07	9293245.18	9293245.31	0.0088	0.0056
Moon	20731-12-18 15:07 G	9293252.91	9293253.13	9293253.38	0.0088	0.0035
Earth	20731-12-18 18:28 G	9293253.05	9293253.27	9293253.53	0.0088	0.0032 *
Mercury	20732-03-07 18:28 G	9293333.16	9293333.27	9293333.38	0.0088	0.0063
Mercury	20732-06-03 20:09 G	9293421.26	9293421.34	9293421.44	0.0088	0.0071
Mercury	20732-08-30 22:04 G	9293509.37	9293509.42	9293509.50	0.0088	0.0079
Mercury	20732-11-27 00:00 G	9293597.50	9293597.50	9293597.54	0.0088	0.0087
Earth	20732-12-20 05:02 G	9293620.48	9293620.71	9293620.96	0.0088	0.0033
Moon	20732-12-20 08:24 G	9293620.62	9293620.85	9293621.11	0.0088	0.0029 *
Moon	20733-12-22 12:43 G	9293987.82	9293988.03	9293988.28	0.0088	0.0037
Earth	20733-12-22 15:07 G	9293987.91	9293988.13	9293988.38	0.0088	0.0033 *

Earth	20734-12-25 01:26 G	9294355.34	9294355.56	9294355.81	0.0088	0.0034
Moon	20734-12-25 03:21 G	9294355.41	9294355.64	9294355.90	0.0088	0.0031 *
Moon	20735-12-27 11:31 G	9294722.77	9294722.98	9294723.22	0.0088	0.0038
Earth	20735-12-27 12:14 G	9294722.77	9294723.01	9294723.25	0.0088	0.0034 *
Moon	20736-12-28 21:21 G	9295090.14	9295090.39	9295090.63	0.0088	0.0031
Earth	20736-12-28 22:19 G	9295090.20	9295090.43	9295090.67	0.0088	0.0035 *
Earth	20737-12-31 08:24 G	9295457.63	9295457.85	9295458.10	0.0088	0.0036
Moon	20737-12-31 10:04 G	9295457.72	9295457.92	9295458.16	0.0088	0.0039 *
Moon	20739-01-02 15:50 G	9295824.92	9295825.16	9295825.40	0.0088	0.0032
Earth	20739-01-02 18:43 G	9295825.06	9295825.28	9295825.53	0.0088	0.0036 *
Earth	20740-01-05 04:33 G	9296192.48	9296192.69	9296192.95	0.0088	0.0037
Moon	20740-01-05 08:24 G	9296192.63	9296192.85	9296193.09	0.0088	0.0040 *
Moon	20741-01-06 11:31 G	9296559.76	9296559.98	9296560.23	0.0088	0.0034
Earth	20741-01-06 15:07 G	9296559.91	9296560.13	9296560.37	0.0088	0.0037 *
Earth	20742-01-09 01:12 G	9296927.32	9296927.55	9296927.79	0.0088	0.0037
Moon	20742-01-09 04:33 G	9296927.46	9296927.69	9296927.93	0.0088	0.0040 *
Moon	20743-01-11 09:21 G	9297294.67	9297294.89	9297295.13	0.0088	0.0034
Earth	20743-01-11 11:02 G	9297294.75	9297294.96	9297295.22	0.0088	0.0038 *
Earth	20744-01-13 21:21 G	9297662.18	9297662.39	9297662.64	0.0088	0.0038
Moon	20744-01-13 23:02 G	9297662.23	9297662.46	9297662.70	0.0088	0.0040 *
Earth	20745-01-15 07:26 G	9298029.60	9298029.81	9298030.06	0.0088	0.0038
Moon	20745-01-15 07:40 G	9298029.60	9298029.82	9298030.06	0.0088	0.0035 *
Moon	20746-01-17 16:04 G	9298396.95	9298397.17	9298397.42	0.0088	0.0041
Earth	20746-01-17 17:45 G	9298397.02	9298397.24	9298397.48	0.0088	0.0038 *
Earth	20747-01-20 04:04 G	9298764.45	9298764.67	9298764.91	0.0088	0.0038
Moon	20747-01-20 06:00 G	9298764.54	9298764.75	9298765.00	0.0088	0.0036 *
Moon	20748-01-22 11:02 G	9299131.74	9299131.96	9299132.20	0.0088	0.0041
Earth	20748-01-22 14:24 G	9299131.88	9299132.10	9299132.34	0.0088	0.0038 *
Earth	20749-01-24 00:43 G	9299499.31	9299499.53	9299499.77	0.0088	0.0038
Moon	20749-01-24 04:04 G	9299499.45	9299499.67	9299499.92	0.0088	0.0035 *

Moon	20750-01-26 07:40 G	9299866.60	9299866.82	9299867.05	0.0088	0.0040
Earth	20750-01-26 10:48 G	9299866.74	9299866.95	9299867.20	0.0088	0.0038 *
Earth	20751-01-28 21:07 G	9300234.16	9300234.38	9300234.63	0.0088	0.0038
Moon	20751-01-29 00:14 G	9300234.28	9300234.51	9300234.76	0.0088	0.0035 *
Moon	20752-01-31 06:14 G	9300601.54	9300601.76	9300601.98	0.0088	0.0040
Earth	20752-01-31 07:26 G	9300601.60	9300601.81	9300602.06	0.0088	0.0038 *
Earth	20753-02-01 17:45 G	9300969.02	9300969.24	9300969.48	0.0088	0.0037
Moon	20753-02-01 18:43 G	9300969.05	9300969.28	9300969.54	0.0088	0.0035 *
Earth	20754-02-04 03:50 G	9301336.44	9301336.66	9301336.91	0.0088	0.0037
Moon	20754-02-04 04:19 G	9301336.48	9301336.68	9301336.92	0.0088	0.0040 *
Moon	20755-02-06 12:00 G	9301703.77	9301704.00	9301704.26	0.0088	0.0034
Earth	20755-02-06 14:09 G	9301703.87	9301704.09	9301704.34	0.0088	0.0037 *
Earth	20756-02-09 00:28 G	9302071.30	9302071.52	9302071.77	0.0088	0.0036
Moon	20756-02-09 03:07 G	9302071.41	9302071.63	9302071.86	0.0088	0.0038 *
Moon	20757-02-10 07:12 G	9302438.57	9302438.80	9302439.05	0.0088	0.0033
Earth	20757-02-10 10:48 G	9302438.73	9302438.95	9302439.20	0.0088	0.0036 *
Earth	20758-02-12 21:07 G	9302806.15	9302806.38	9302806.62	0.0088	0.0035
Moon	20758-02-13 00:28 G	9302806.30	9302806.52	9302806.77	0.0088	0.0038 *
Moon	20759-02-15 04:04 G	9303173.45	9303173.67	9303173.92	0.0088	0.0033
Earth	20759-02-15 07:55 G	9303173.59	9303173.83	9303174.06	0.0088	0.0034 *
Earth	20760-02-17 18:00 G	9303541.02	9303541.25	9303541.50	0.0088	0.0034
Moon	20760-02-17 20:38 G	9303541.14	9303541.36	9303541.62	0.0088	0.0036 *
Moon	20761-02-19 03:07 G	9303908.41	9303908.63	9303908.88	0.0088	0.0031
Earth	20761-02-19 04:33 G	9303908.46	9303908.69	9303908.94	0.0088	0.0033 *
Earth	20762-02-21 15:07 G	9304275.90	9304276.13	9304276.38	0.0088	0.0032
Moon	20762-02-21 15:36 G	9304275.92	9304276.15	9304276.41	0.0088	0.0034 *
Earth	20763-02-24 01:26 G	9304643.34	9304643.56	9304643.82	0.0088	0.0032
Moon	20763-02-24 02:52 G	9304643.39	9304643.62	9304643.86	0.0088	0.0029 *
Moon	20764-02-26 09:50 G	9305010.68	9305010.91	9305011.17	0.0088	0.0033
Earth	20764-02-26 12:14 G	9305010.78	9305011.01	9305011.26	0.0088	0.0031 *

Earth	20765-02-27 22:48 G	9305378.22	9305378.45	9305378.70	0.0088	0.0030
Moon	20765-02-28 01:40 G	9305378.34	9305378.57	9305378.81	0.0088	0.0028 *
Moon	20766-03-02 05:45 G	9305745.51	9305745.74	9305745.99	0.0088	0.0031
Earth	20766-03-02 09:21 G	9305745.66	9305745.89	9305746.15	0.0088	0.0029 *
Earth	20767-03-04 19:55 G	9306113.10	9306113.33	9306113.59	0.0088	0.0028
Moon	20767-03-04 23:16 G	9306113.24	9306113.47	9306113.74	0.0088	0.0026 *
Moon	20768-03-06 03:21 G	9306480.42	9306480.64	9306480.90	0.0088	0.0028
Earth	20768-03-06 06:43 G	9306480.55	9306480.78	9306481.04	0.0088	0.0027 *
Earth	20769-03-08 17:16 G	9306847.98	9306848.22	9306848.48	0.0088	0.0026
Moon	20769-03-08 19:40 G	9306848.08	9306848.32	9306848.59	0.0088	0.0024 *
Moon	20770-03-11 03:07 G	9307215.40	9307215.63	9307215.88	0.0088	0.0026
Earth	20770-03-11 04:19 G	9307215.43	9307215.68	9307215.93	0.0088	0.0024 *
Earth	20771-03-13 15:07 G	9307582.88	9307583.13	9307583.38	0.0088	0.0023
Moon	20771-03-13 15:21 G	9307582.89	9307583.14	9307583.40	0.0088	0.0022 *
Earth	20772-03-15 01:55 G	9307950.33	9307950.58	9307950.83	0.0088	0.0022
Moon	20772-03-15 03:07 G	9307950.40	9307950.63	9307950.88	0.0088	0.0024 *
Moon	20773-03-17 10:19 G	9308317.68	9308317.93	9308318.20	0.0088	0.0019
Earth	20773-03-17 12:57 G	9308317.79	9308318.04	9308318.30	0.0088	0.0021 *
Earth	20774-03-19 23:45 G	9308685.25	9308685.49	9308685.76	0.0088	0.0020
Moon	20774-03-20 02:38 G	9308685.38	9308685.61	9308685.87	0.0088	0.0021 *
Mars	20774-09-06 00:00 G	9308855.45	9308855.50	9308855.57	0.0088	0.0086
Moon	20775-03-22 07:26 G	9309052.56	9309052.81	9309053.07	0.0088	0.0017
Earth	20775-03-22 11:16 G	9309052.72	9309052.97	9309053.23	0.0088	0.0018 *
Earth	20776-03-23 22:19 G	9309420.18	9309420.43	9309420.69	0.0088	0.0017
Moon	20776-03-24 01:55 G	9309420.32	9309420.58	9309420.83	0.0088	0.0018 *
Mars	20776-08-01 21:21 G	9309551.06	9309551.39	9309551.73	0.0088	0.0002
Moon	20777-03-26 06:28 G	9309787.52	9309787.77	9309788.02	0.0088	0.0015
Earth	20777-03-26 09:21 G	9309787.65	9309787.89	9309788.16	0.0088	0.0016 *
Earth	20778-03-28 20:52 G	9310155.12	9310155.37	9310155.63	0.0088	0.0014
Moon	20778-03-28 23:02 G	9310155.20	9310155.46	9310155.73	0.0088	0.0015 *

Mars	20778-06-28 15:21 G	9310247.05	9310247.14	9310247.28	0.0088	0.0082
Moon	20779-03-31 07:12 G	9310522.56	9310522.80	9310523.06	0.0088	0.0013
Earth	20779-03-31 08:09 G	9310522.59	9310522.84	9310523.10	0.0088	0.0013 *
Earth	20780-04-01 19:26 G	9310890.05	9310890.31	9310890.56	0.0088	0.0012
Moon	20780-04-01 19:12 G	9310890.05	9310890.30	9310890.58	0.0088	0.0012 *
Earth	20781-04-04 06:43 G	9311257.52	9311257.78	9311258.04	0.0088	0.0010
Moon	20781-04-04 08:09 G	9311257.60	9311257.84	9311258.09	0.0088	0.0010 *
Moon	20782-04-06 15:21 G	9311624.88	9311625.14	9311625.41	0.0088	0.0010
Earth	20782-04-06 18:14 G	9311625.00	9311625.26	9311625.52	0.0088	0.0009 *
Earth	20783-04-09 05:31 G	9311992.48	9311992.73	9311992.99	0.0088	0.0007
Moon	20783-04-09 08:38 G	9311992.61	9311992.86	9311993.11	0.0088	0.0007 *
Moon	20784-04-10 13:26 G	9312359.80	9312360.06	9312360.32	0.0088	0.0006
Earth	20784-04-10 17:16 G	9312359.96	9312360.22	9312360.48	0.0088	0.0006 *
Earth	20785-04-13 04:48 G	9312727.44	9312727.70	9312727.96	0.0088	0.0004
Moon	20785-04-13 08:09 G	9312727.58	9312727.84	9312728.10	0.0088	0.0004 *
Moon	20786-04-15 13:26 G	9313094.81	9313095.06	9313095.32	0.0088	0.0002
Earth	20786-04-15 16:33 G	9313094.94	9313095.19	9313095.45	0.0088	0.0003 *
Earth	20787-04-18 04:33 G	9313462.43	9313462.69	9313462.95	0.0088	0.0001
Moon	20787-04-18 06:43 G	9313462.51	9313462.78	9313463.04	0.0088	0.0002 *
Moon	20788-04-19 15:36 G	9313829.90	9313830.15	9313830.40	0.0088	0.0002
Earth	20788-04-19 16:19 G	9313829.92	9313830.18	9313830.44	0.0088	0.0000 *
Moon	20789-04-22 04:19 G	9314197.41	9314197.68	9314197.95	0.0088	0.0001
Earth	20789-04-22 04:19 G	9314197.42	9314197.68	9314197.94	0.0088	0.0002 *
Earth	20790-04-24 16:19 G	9314564.92	9314565.18	9314565.44	0.0088	0.0004
Moon	20790-04-24 17:45 G	9314564.99	9314565.24	9314565.50	0.0088	0.0004 *
Moon	20791-04-27 01:26 G	9314932.30	9314932.56	9314932.83	0.0089	0.0005
Earth	20791-04-27 04:04 G	9314932.42	9314932.67	9314932.93	0.0089	0.0005 *
Earth	20792-04-28 16:04 G	9315299.91	9315300.17	9315300.43	0.0089	0.0007
Moon	20792-04-28 19:12 G	9315300.05	9315300.30	9315300.55	0.0089	0.0008 *
Moon	20793-05-01 00:14 G	9315667.26	9315667.51	9315667.78	0.0089	0.0008



Earth	20793-05-01 04:04 G	9315667.42	9315667.67	9315667.93	0.0089	0.0008	*
Earth	20794-05-03 16:04 G	9316034.92	9316035.17	9316035.43	0.0089	0.0010	
Moon	20794-05-03 19:40 G	9316035.06	9316035.32	9316035.58	0.0089	0.0011	*
Moon	20795-05-06 00:57 G	9316402.30	9316402.54	9316402.81	0.0089	0.0010	
Earth	20795-05-06 04:19 G	9316402.43	9316402.68	9316402.94	0.0089	0.0011	*
Earth	20796-05-07 16:19 G	9316769.93	9316770.18	9316770.44	0.0089	0.0013	
Moon	20796-05-07 18:28 G	9316770.01	9316770.27	9316770.54	0.0089	0.0014	*
Moon	20797-05-10 03:50 G	9317137.42	9317137.66	9317137.91	0.0089	0.0013	
Earth	20797-05-10 04:48 G	9317137.45	9317137.70	9317137.96	0.0089	0.0014	*
Earth	20798-05-12 17:02 G	9317504.96	9317505.21	9317505.47	0.0089	0.0016	
Moon	20798-05-12 17:16 G	9317504.96	9317505.22	9317505.49	0.0089	0.0018	*
Earth	20799-05-15 05:31 G	9317872.48	9317872.73	9317872.99	0.0089	0.0017	
Moon	20799-05-15 06:57 G	9317872.55	9317872.79	9317873.05	0.0089	0.0016	*
Moon	20800-05-16 15:36 G	9318239.90	9318240.15	9318240.42	0.0089	0.0020	
Earth	20800-05-16 18:00 G	9318240.01	9318240.25	9318240.51	0.0089	0.0019	*
Earth	20801-05-19 06:28 G	9318607.53	9318607.77	9318608.03	0.0089	0.0020	
Moon	20801-05-19 09:36 G	9318607.66	9318607.90	9318608.16	0.0089	0.0017	*
Venus	20802-04-27 13:40 G	9318950.96	9318951.07	9318951.21	0.0089	0.0073	
Moon	20802-05-21 15:36 G	9318974.90	9318975.15	9318975.40	0.0089	0.0023	
Earth	20802-05-21 19:26 G	9318975.06	9318975.31	9318975.56	0.0089	0.0021	*
Venus	20802-12-09 02:52 G	9319176.45	9319176.62	9319176.80	0.0089	0.0053	
Earth	20803-05-24 07:40 G	9319342.58	9319342.82	9319343.08	0.0089	0.0023	
Moon	20803-05-24 11:16 G	9319342.72	9319342.97	9319343.23	0.0089	0.0020	*
Venus	20803-07-22 16:04 G	9319401.97	9319402.17	9319402.38	0.0089	0.0033	
Venus	20804-03-04 05:16 G	9319627.51	9319627.72	9319627.94	0.0089	0.0013	
Moon	20804-05-25 17:02 G	9319709.97	9319710.21	9319710.46	0.0089	0.0027	
Earth	20804-05-25 20:09 G	9319710.10	9319710.34	9319710.60	0.0089	0.0024	*
Venus	20804-10-15 18:28 G	9319853.05	9319853.27	9319853.49	0.0089	0.0007	
Earth	20805-05-28 08:52 G	9320077.63	9320077.87	9320078.13	0.0089	0.0025	
Moon	20805-05-28 11:16 G	9320077.72	9320077.97	9320078.23	0.0089	0.0022	*

Venus	20805-05-29 07:26 G	9320078.61	9320078.81	9320079.03	0.0089	0.0027
Venus	20806-01-09 20:24 G	9320304.17	9320304.35	9320304.55	0.0089	0.0047
Moon	20806-05-30 20:24 G	9320445.12	9320445.35	9320445.60	0.0089	0.0029
Earth	20806-05-30 21:36 G	9320445.16	9320445.40	9320445.66	0.0089	0.0027 *
Venus	20806-08-23 09:21 G	9320529.76	9320529.89	9320530.05	0.0089	0.0067
Venus	20807-04-05 22:33 G	9320755.42	9320755.44	9320755.50	0.0089	0.0087
Earth	20807-06-02 10:19 G	9320812.69	9320812.93	9320813.18	0.0089	0.0028
Moon	20807-06-02 10:33 G	9320812.69	9320812.94	9320813.21	0.0089	0.0024 *
Earth	20808-06-03 23:02 G	9321180.22	9321180.46	9321180.71	0.0089	0.0029
Moon	20808-06-04 00:28 G	9321180.29	9321180.52	9321180.76	0.0089	0.0032 *
Moon	20809-06-06 09:36 G	9321547.66	9321547.90	9321548.17	0.0089	0.0027
Earth	20809-06-06 11:45 G	9321547.76	9321547.99	9321548.25	0.0089	0.0030 *
Earth	20810-06-09 00:28 G	9321915.30	9321915.52	9321915.78	0.0089	0.0031
Moon	20810-06-09 03:21 G	9321915.42	9321915.64	9321915.89	0.0089	0.0035 *
Mercury	20811-01-31 20:09 G	9322152.28	9322152.34	9322152.42	0.0089	0.0081
Mercury	20811-04-29 22:48 G	9322240.36	9322240.45	9322240.55	0.0089	0.0072
Moon	20811-06-11 10:19 G	9322282.68	9322282.93	9322283.18	0.0089	0.0029
Earth	20811-06-11 13:40 G	9322282.84	9322283.07	9322283.33	0.0089	0.0032 *
Mercury	20811-07-27 00:57 G	9322328.44	9322328.54	9322328.67	0.0089	0.0064
Mercury	20811-10-23 03:36 G	9322416.53	9322416.65	9322416.79	0.0089	0.0055
Mercury	20812-01-19 06:14 G	9322504.62	9322504.76	9322504.91	0.0089	0.0047
Mercury	20812-04-16 08:38 G	9322592.72	9322592.86	9322593.02	0.0089	0.0038
Earth	20812-06-13 02:24 G	9322650.38	9322650.60	9322650.86	0.0089	0.0034
Moon	20812-06-13 06:14 G	9322650.53	9322650.76	9322651.00	0.0089	0.0037 *
Mercury	20812-07-13 11:02 G	9322680.81	9322680.96	9322681.12	0.0089	0.0030
Mercury	20812-10-09 13:26 G	9322768.91	9322769.06	9322769.23	0.0089	0.0021
Mercury	20813-01-05 16:04 G	9322857.01	9322857.17	9322857.34	0.0089	0.0012
Mercury	20813-04-03 18:28 G	9322945.11	9322945.27	9322945.44	0.0089	0.0004
Moon	20813-06-15 12:43 G	9323017.79	9323018.03	9323018.27	0.0089	0.0030
Earth	20813-06-15 15:50 G	9323017.94	9323018.16	9323018.41	0.0089	0.0034 *

Mercury	20813-06-30 20:52 G	9323033.21	9323033.37	9323033.54	0.0089	0.0005
Mercury	20813-09-26 23:16 G	9323121.31	9323121.47	9323121.64	0.0089	0.0013
Mercury	20813-12-24 01:40 G	9323209.42	9323209.57	9323209.73	0.0089	0.0022
Mercury	20814-03-22 04:04 G	9323297.52	9323297.67	9323297.83	0.0089	0.0030
Earth	20814-06-18 05:16 G	9323385.48	9323385.72	9323385.96	0.0089	0.0035
Moon	20814-06-18 07:26 G	9323385.58	9323385.81	9323386.06	0.0089	0.0039 *
Mercury	20814-06-18 06:28 G	9323385.62	9323385.77	9323385.92	0.0089	0.0038 *
Mercury	20814-09-14 08:52 G	9323473.73	9323473.87	9323474.01	0.0089	0.0047
Mercury	20814-12-11 10:48 G	9323561.84	9323561.95	9323562.09	0.0089	0.0056
Mercury	20815-03-09 13:12 G	9323649.95	9323650.05	9323650.18	0.0089	0.0064
Mercury	20815-06-05 15:36 G	9323738.07	9323738.15	9323738.26	0.0089	0.0072
Moon	20815-06-20 16:19 G	9323752.96	9323753.18	9323753.43	0.0089	0.0032
Earth	20815-06-20 18:14 G	9323753.03	9323753.26	9323753.50	0.0089	0.0036 *
Mercury	20815-09-01 18:00 G	9323826.18	9323826.25	9323826.33	0.0089	0.0079
Mercury	20815-11-28 20:09 G	9323914.32	9323914.34	9323914.38	0.0089	0.0088
Earth	20816-06-22 06:57 G	9324120.57	9324120.79	9324121.05	0.0089	0.0037
Moon	20816-06-22 07:40 G	9324120.60	9324120.82	9324121.08	0.0089	0.0041 *
Earth	20817-06-24 20:09 G	9324488.12	9324488.34	9324488.59	0.0089	0.0037
Moon	20817-06-24 21:21 G	9324488.17	9324488.39	9324488.63	0.0089	0.0033 *
Moon	20818-06-27 07:26 G	9324855.59	9324855.81	9324856.06	0.0089	0.0042
Earth	20818-06-27 09:21 G	9324855.66	9324855.89	9324856.13	0.0089	0.0038 *
Earth	20819-06-29 22:19 G	9325223.21	9325223.43	9325223.68	0.0089	0.0038
Moon	20819-06-30 01:12 G	9325223.32	9325223.55	9325223.79	0.0089	0.0034 *
Moon	20820-07-01 07:40 G	9325590.61	9325590.82	9325591.07	0.0089	0.0043
Earth	20820-07-01 11:31 G	9325590.76	9325590.98	9325591.22	0.0089	0.0039 *
Earth	20821-07-04 00:28 G	9325958.30	9325958.52	9325958.77	0.0089	0.0040
Moon	20821-07-04 04:19 G	9325958.44	9325958.68	9325958.92	0.0089	0.0035 *
Moon	20822-07-06 10:19 G	9326325.72	9326325.93	9326326.16	0.0089	0.0045
Earth	20822-07-06 13:55 G	9326325.86	9326326.08	9326326.32	0.0089	0.0040 *
Earth	20823-07-09 02:38 G	9326693.40	9326693.61	9326693.87	0.0089	0.0041

Moon	20823-07-09 05:31 G	9326693.50	9326693.73	9326693.99	0.0089	0.0036	*
Moon	20824-07-10 14:24 G	9327060.89	9327061.10	9327061.33	0.0089	0.0045	
Earth	20824-07-10 16:19 G	9327060.96	9327061.18	9327061.42	0.0089	0.0040	*
Jupiter	20825-06-29 11:02 G	9327414.46	9327414.96	9327415.49	0.0089	0.0014	
Earth	20825-07-13 05:45 G	9327428.52	9327428.74	9327428.98	0.0089	0.0041	
Moon	20825-07-13 06:57 G	9327428.55	9327428.79	9327429.04	0.0089	0.0036	*
Earth	20826-07-15 18:57 G	9327796.07	9327796.29	9327796.53	0.0089	0.0041	
Moon	20826-07-15 19:26 G	9327796.12	9327796.31	9327796.55	0.0089	0.0046	*
Moon	20827-07-18 06:57 G	9328163.56	9328163.79	9328164.05	0.0090	0.0037	
Earth	20827-07-18 08:38 G	9328163.63	9328163.86	9328164.09	0.0090	0.0041	*
Earth	20828-07-19 21:36 G	9328531.18	9328531.40	9328531.64	0.0090	0.0041	
Moon	20828-07-20 00:00 G	9328531.29	9328531.50	9328531.73	0.0090	0.0046	*
Moon	20829-07-22 07:12 G	9328898.58	9328898.80	9328899.06	0.0090	0.0037	
Earth	20829-07-22 11:02 G	9328898.73	9328898.96	9328899.19	0.0090	0.0041	*
Earth	20830-07-25 00:00 G	9329266.28	9329266.50	9329266.74	0.0090	0.0041	
Moon	20830-07-25 03:07 G	9329266.43	9329266.63	9329266.87	0.0090	0.0046	*
Moon	20831-07-27 09:21 G	9329633.66	9329633.89	9329634.13	0.0090	0.0036	
Earth	20831-07-27 12:57 G	9329633.82	9329634.04	9329634.28	0.0090	0.0041	*
Earth	20832-07-29 01:55 G	9330001.37	9330001.58	9330001.83	0.0090	0.0041	
Moon	20832-07-29 05:02 G	9330001.49	9330001.71	9330001.95	0.0090	0.0045	*
Moon	20833-07-31 12:57 G	9330368.82	9330369.04	9330369.28	0.0090	0.0036	
Earth	20833-07-31 15:36 G	9330368.92	9330369.15	9330369.38	0.0090	0.0040	*
Earth	20834-08-03 04:04 G	9330736.45	9330736.67	9330736.92	0.0090	0.0040	
Moon	20834-08-03 05:45 G	9330736.51	9330736.74	9330736.97	0.0090	0.0044	*
Earth	20835-08-05 17:02 G	9331104.00	9331104.21	9331104.46	0.0090	0.0040	
Moon	20835-08-05 17:16 G	9331104.01	9331104.22	9331104.47	0.0090	0.0036	*
Moon	20836-08-07 05:31 G	9331471.51	9331471.73	9331471.98	0.0090	0.0043	
Earth	20836-08-07 06:28 G	9331471.55	9331471.77	9331472.01	0.0090	0.0039	*
Earth	20837-08-09 19:26 G	9331839.09	9331839.31	9331839.56	0.0090	0.0039	
Moon	20837-08-09 22:04 G	9331839.19	9331839.42	9331839.65	0.0090	0.0034	*

Moon	20838-08-12 05:45 G	9332206.51	9332206.74	9332206.98	0.0090	0.0042
Earth	20838-08-12 08:52 G	9332206.65	9332206.87	9332207.11	0.0090	0.0038 *
Earth	20839-08-14 21:50 G	9332574.18	9332574.41	9332574.65	0.0090	0.0037
Moon	20839-08-15 00:57 G	9332574.32	9332574.54	9332574.80	0.0090	0.0034 *
Moon	20840-08-16 07:12 G	9332941.58	9332941.80	9332942.04	0.0090	0.0041
Earth	20840-08-16 11:16 G	9332941.73	9332941.97	9332942.21	0.0090	0.0036 *
Earth	20841-08-18 23:45 G	9333309.27	9333309.49	9333309.74	0.0090	0.0036
Moon	20841-08-19 02:52 G	9333309.39	9333309.62	9333309.88	0.0090	0.0032 *
Moon	20842-08-21 10:04 G	9333676.70	9333676.92	9333677.16	0.0090	0.0038
Earth	20842-08-21 12:43 G	9333676.80	9333677.03	9333677.28	0.0090	0.0035 *
Earth	20843-08-24 01:26 G	9334044.34	9334044.56	9334044.81	0.0090	0.0034
Moon	20843-08-24 03:21 G	9334044.39	9334044.64	9334044.89	0.0090	0.0030 *
Earth	20844-08-25 14:24 G	9334411.87	9334412.10	9334412.35	0.0090	0.0033
Moon	20844-08-25 14:09 G	9334411.88	9334412.09	9334412.33	0.0090	0.0036 *
Moon	20845-08-28 02:38 G	9334779.36	9334779.61	9334779.87	0.0090	0.0029
Earth	20845-08-28 03:07 G	9334779.40	9334779.63	9334779.88	0.0090	0.0032 *
Earth	20846-08-30 15:50 G	9335146.93	9335147.16	9335147.41	0.0090	0.0031
Moon	20846-08-30 17:45 G	9335147.02	9335147.24	9335147.49	0.0090	0.0035 *
Moon	20847-09-02 01:40 G	9335514.32	9335514.57	9335514.83	0.0089	0.0026
Earth	20847-09-02 04:33 G	9335514.46	9335514.69	9335514.94	0.0089	0.0030 *
Earth	20848-09-03 17:16 G	9335881.98	9335882.22	9335882.47	0.0089	0.0028
Moon	20848-09-03 20:24 G	9335882.13	9335882.35	9335882.60	0.0089	0.0031 *
Moon	20849-09-06 02:24 G	9336249.36	9336249.60	9336249.85	0.0089	0.0024
Earth	20849-09-06 06:00 G	9336249.52	9336249.75	9336250.01	0.0089	0.0028 *
Earth	20850-09-08 18:28 G	9336617.04	9336617.27	9336617.53	0.0089	0.0026
Moon	20850-09-08 21:50 G	9336617.17	9336617.41	9336617.67	0.0089	0.0029 *
Moon	20851-09-11 04:33 G	9336984.45	9336984.69	9336984.94	0.0089	0.0023
Earth	20851-09-11 07:26 G	9336984.57	9336984.81	9336985.07	0.0089	0.0025 *
Earth	20852-09-12 19:55 G	9337352.10	9337352.33	9337352.59	0.0089	0.0024
Moon	20852-09-12 22:04 G	9337352.16	9337352.42	9337352.67	0.0089	0.0026 *

Moon	20853-09-15 08:24 G	9337719.60	9337719.85	9337720.09	0.0089	0.0020
Earth	20853-09-15 08:24 G	9337719.61	9337719.85	9337720.11	0.0089	0.0023 *
Moon	20854-09-17 20:38 G	9338087.11	9338087.36	9338087.63	0.0089	0.0023
Earth	20854-09-17 21:07 G	9338087.13	9338087.38	9338087.63	0.0089	0.0021 *
Earth	20855-09-20 09:07 G	9338454.64	9338454.88	9338455.14	0.0089	0.0020
Moon	20855-09-20 11:02 G	9338454.73	9338454.96	9338455.22	0.0089	0.0017 *
Mars	20856-05-28 15:07 G	9338705.94	9338706.13	9338706.35	0.0089	0.0064
Moon	20856-09-21 18:43 G	9338822.03	9338822.28	9338822.55	0.0089	0.0020
Earth	20856-09-21 21:50 G	9338822.16	9338822.41	9338822.66	0.0089	0.0018 *
Earth	20857-09-24 09:50 G	9339189.66	9339189.91	9339190.17	0.0089	0.0016
Moon	20857-09-24 12:57 G	9339189.80	9339190.04	9339190.30	0.0089	0.0015 *
Mars	20858-04-22 12:43 G	9339399.75	9339400.03	9339400.34	0.0089	0.0013
Moon	20858-09-26 18:00 G	9339557.01	9339557.25	9339557.52	0.0089	0.0017
Earth	20858-09-26 22:04 G	9339557.17	9339557.42	9339557.67	0.0089	0.0015 *
Earth	20859-09-29 10:04 G	9339924.67	9339924.92	9339925.18	0.0089	0.0013
Moon	20859-09-29 13:26 G	9339924.80	9339925.06	9339925.32	0.0089	0.0012 *
Mars	20860-03-16 10:33 G	9340093.93	9340093.94	9340094.01	0.0089	0.0089
Moon	20860-09-30 19:26 G	9340292.06	9340292.31	9340292.56	0.0089	0.0013
Earth	20860-09-30 22:19 G	9340292.18	9340292.43	9340292.69	0.0089	0.0012 *
Earth	20861-10-03 10:04 G	9340659.67	9340659.92	9340660.19	0.0089	0.0011
Moon	20861-10-03 12:00 G	9340659.74	9340660.00	9340660.27	0.0089	0.0009 *
Moon	20862-10-05 21:50 G	9341027.16	9341027.41	9341027.66	0.0089	0.0010
Earth	20862-10-05 22:19 G	9341027.18	9341027.43	9341027.69	0.0089	0.0009 *
Moon	20863-10-08 10:19 G	9341394.66	9341394.93	9341395.19	0.0089	0.0006
Earth	20863-10-08 10:19 G	9341394.68	9341394.93	9341395.19	0.0089	0.0007 *
Earth	20864-10-09 22:33 G	9341762.18	9341762.44	9341762.69	0.0089	0.0005
Moon	20864-10-10 00:14 G	9341762.27	9341762.51	9341762.76	0.0089	0.0007 *
Moon	20865-10-12 07:40 G	9342129.56	9342129.82	9342130.08	0.0089	0.0002
Earth	20865-10-12 10:19 G	9342129.68	9342129.93	9342130.19	0.0089	0.0004 *
Earth	20866-10-14 21:50 G	9342497.16	9342497.41	9342497.67	0.0089	0.0003

Moon	20866-10-15 01:12 G	9342497.30	9342497.55	9342497.80	0.0089	0.0002	*
Moon	20867-10-17 06:00 G	9342864.49	9342864.75	9342865.01	0.0089	0.0001	
Earth	20867-10-17 09:50 G	9342864.65	9342864.91	9342865.16	0.0089	0.0001	*
Earth	20868-10-18 21:21 G	9343232.13	9343232.39	9343232.64	0.0089	0.0002	
Moon	20868-10-19 00:28 G	9343232.26	9343232.52	9343232.78	0.0089	0.0002	*
Moon	20869-10-21 05:45 G	9343599.49	9343599.74	9343599.99	0.0089	0.0003	
Earth	20869-10-21 08:38 G	9343599.61	9343599.86	9343600.12	0.0089	0.0003	*
Earth	20870-10-23 19:55 G	9343967.08	9343967.33	9343967.60	0.0089	0.0005	
Moon	20870-10-23 21:50 G	9343967.15	9343967.41	9343967.68	0.0089	0.0004	*
Moon	20871-10-26 06:57 G	9344334.54	9344334.79	9344335.04	0.0089	0.0006	
Earth	20871-10-26 07:40 G	9344334.56	9344334.82	9344335.07	0.0089	0.0006	*
Moon	20872-10-27 18:28 G	9344702.01	9344702.27	9344702.54	0.0089	0.0008	
Earth	20872-10-27 18:43 G	9344702.03	9344702.28	9344702.54	0.0089	0.0008	*
Earth	20873-10-30 06:14 G	9345069.50	9345069.76	9345070.02	0.0089	0.0009	
Moon	20873-10-30 08:09 G	9345069.59	9345069.84	9345070.09	0.0089	0.0009	*
Moon	20874-11-01 14:38 G	9345436.85	9345437.11	9345437.38	0.0089	0.0011	
Earth	20874-11-01 17:31 G	9345436.98	9345437.23	9345437.49	0.0089	0.0011	*
Earth	20875-11-04 04:33 G	9345804.45	9345804.69	9345804.96	0.0089	0.0013	
Moon	20875-11-04 07:55 G	9345804.59	9345804.83	9345805.09	0.0089	0.0012	*
Moon	20876-11-05 12:28 G	9346171.77	9346172.02	9346172.28	0.0089	0.0014	
Earth	20876-11-05 16:04 G	9346171.92	9346172.17	9346172.43	0.0089	0.0014	*
Earth	20877-11-08 03:07 G	9346539.38	9346539.63	9346539.89	0.0089	0.0015	
Moon	20877-11-08 06:14 G	9346539.52	9346539.76	9346540.03	0.0089	0.0015	*
Moon	20878-11-10 11:31 G	9346906.74	9346906.98	9346907.23	0.0089	0.0018	
Earth	20878-11-10 14:24 G	9346906.85	9346907.10	9346907.36	0.0089	0.0017	*
Earth	20879-11-13 01:12 G	9347274.31	9347274.55	9347274.81	0.0089	0.0019	
Moon	20879-11-13 02:52 G	9347274.37	9347274.62	9347274.89	0.0089	0.0018	*
Moon	20880-11-14 11:45 G	9347641.76	9347641.99	9347642.24	0.0089	0.0021	
Earth	20880-11-14 12:14 G	9347641.77	9347642.01	9347642.27	0.0089	0.0020	*
Moon	20881-11-16 22:33 G	9348009.19	9348009.44	9348009.71	0.0089	0.0020	

Earth	20881-11-16 23:16 G	9348009.22	9348009.47	9348009.72	0.0089	0.0021	*
Earth	20882-11-19 09:50 G	9348376.67	9348376.91	9348377.17	0.0088	0.0022	
Moon	20882-11-19 12:00 G	9348376.77	9348377.00	9348377.25	0.0088	0.0023	*
Venus	20883-03-20 14:24 G	9348498.03	9348498.10	9348498.17	0.0088	0.0083	
Venus	20883-11-01 02:52 G	9348723.48	9348723.62	9348723.79	0.0088	0.0064	
Moon	20883-11-21 18:00 G	9348744.00	9348744.25	9348744.50	0.0088	0.0023	
Earth	20883-11-21 20:38 G	9348744.12	9348744.36	9348744.62	0.0088	0.0024	*
Venus	20884-06-13 15:50 G	9348948.98	9348949.16	9348949.36	0.0088	0.0044	
Earth	20884-11-23 07:12 G	9349111.57	9349111.80	9349112.06	0.0088	0.0025	
Moon	20884-11-23 11:02 G	9349111.72	9349111.96	9349112.20	0.0088	0.0027	*
Venus	20885-01-25 04:33 G	9349174.49	9349174.69	9349174.91	0.0088	0.0024	
Venus	20885-09-07 17:45 G	9349400.02	9349400.24	9349400.46	0.0088	0.0004	
Moon	20885-11-25 14:24 G	9349478.87	9349479.10	9349479.36	0.0088	0.0026	
Earth	20885-11-25 18:00 G	9349479.02	9349479.25	9349479.51	0.0088	0.0026	*
Venus	20886-04-21 06:28 G	9349625.56	9349625.77	9349625.99	0.0088	0.0015	
Earth	20886-11-28 04:48 G	9349846.46	9349846.70	9349846.95	0.0088	0.0027	
Moon	20886-11-28 07:40 G	9349846.59	9349846.82	9349847.08	0.0088	0.0030	*
Venus	20886-12-02 19:26 G	9349851.11	9349851.31	9349851.51	0.0088	0.0035	
Venus	20887-07-16 07:55 G	9350076.67	9350076.83	9350077.01	0.0088	0.0055	
Moon	20887-11-30 12:57 G	9350213.81	9350214.04	9350214.29	0.0088	0.0027	
Earth	20887-11-30 15:36 G	9350213.92	9350214.15	9350214.40	0.0088	0.0029	*
Venus	20888-02-26 20:24 G	9350302.26	9350302.35	9350302.49	0.0088	0.0075	
Earth	20888-12-02 02:24 G	9350581.36	9350581.60	9350581.84	0.0088	0.0030	
Moon	20888-12-02 03:21 G	9350581.40	9350581.64	9350581.90	0.0088	0.0031	*
Earth	20889-12-04 12:43 G	9350948.81	9350949.03	9350949.29	0.0088	0.0031	
Moon	20889-12-04 12:43 G	9350948.81	9350949.03	9350949.28	0.0088	0.0030	*
Moon	20890-12-06 22:19 G	9351316.21	9351316.43	9351316.70	0.0088	0.0035	
Earth	20890-12-06 23:31 G	9351316.25	9351316.48	9351316.73	0.0088	0.0032	*
Earth	20891-12-09 10:04 G	9351683.69	9351683.92	9351684.17	0.0088	0.0033	
Moon	20891-12-09 12:43 G	9351683.80	9351684.03	9351684.27	0.0088	0.0032	*



Mercury	20892-02-06 03:36 G	9351742.62	9351742.65	9351742.71	0.0088	0.0084
Mercury	20892-05-04 05:45 G	9351830.67	9351830.74	9351830.81	0.0088	0.0077
Mercury	20892-07-31 07:26 G	9351918.73	9351918.81	9351918.91	0.0088	0.0069
Mercury	20892-10-27 09:07 G	9352006.79	9352006.88	9352007.00	0.0088	0.0062
Moon	20892-12-10 17:45 G	9352051.01	9352051.24	9352051.49	0.0088	0.0035
Earth	20892-12-10 20:38 G	9352051.14	9352051.36	9352051.61	0.0088	0.0034 *
Mercury	20893-01-23 11:16 G	9352094.85	9352094.97	9352095.09	0.0088	0.0055
Mercury	20893-04-21 12:57 G	9352182.92	9352183.04	9352183.17	0.0088	0.0047
Mercury	20893-07-18 14:38 G	9352270.99	9352271.11	9352271.26	0.0088	0.0040
Mercury	20893-10-14 16:48 G	9352359.06	9352359.20	9352359.34	0.0088	0.0033
Earth	20893-12-13 06:43 G	9352418.57	9352418.78	9352419.04	0.0088	0.0035
Moon	20893-12-13 10:33 G	9352418.71	9352418.94	9352419.19	0.0088	0.0032 *
Mercury	20894-01-10 18:28 G	9352447.13	9352447.27	9352447.42	0.0088	0.0025
Mercury	20894-04-08 20:24 G	9352535.21	9352535.35	9352535.50	0.0088	0.0018
Mercury	20894-07-05 22:19 G	9352623.28	9352623.43	9352623.58	0.0088	0.0010
Mercury	20894-10-02 00:14 G	9352711.36	9352711.51	9352711.66	0.0088	0.0003
Moon	20894-12-15 13:55 G	9352785.86	9352786.08	9352786.32	0.0088	0.0037
Earth	20894-12-15 17:45 G	9352786.00	9352786.24	9352786.47	0.0088	0.0036 *
Mercury	20894-12-29 02:09 G	9352799.44	9352799.59	9352799.74	0.0088	0.0005
Mercury	20895-03-27 04:04 G	9352887.52	9352887.67	9352887.82	0.0088	0.0012
Mercury	20895-06-23 05:45 G	9352975.60	9352975.74	9352975.90	0.0088	0.0020
Mercury	20895-09-19 07:40 G	9353063.68	9353063.82	9353063.97	0.0088	0.0028
Mercury	20895-12-16 09:36 G	9353151.77	9353151.90	9353152.05	0.0088	0.0035
Earth	20895-12-18 03:50 G	9353153.44	9353153.66	9353153.90	0.0088	0.0036
Moon	20895-12-18 06:43 G	9353153.56	9353153.78	9353154.04	0.0088	0.0034 *
Mercury	20896-03-13 11:31 G	9353239.85	9353239.98	9353240.12	0.0088	0.0043
Mercury	20896-06-09 13:40 G	9353327.94	9353328.07	9353328.19	0.0088	0.0051
Mercury	20896-09-05 15:21 G	9353416.04	9353416.14	9353416.26	0.0088	0.0058
Mercury	20896-12-02 17:16 G	9353504.13	9353504.22	9353504.33	0.0088	0.0066
Moon	20896-12-19 11:31 G	9353520.78	9353520.98	9353521.22	0.0088	0.0040

Earth	20896-12-19 13:55 G	9353520.87	9353521.08	9353521.33	0.0088	0.0038	*
Mercury	20897-02-28 19:12 G	9353592.23	9353592.30	9353592.40	0.0088	0.0074	
Mercury	20897-05-27 21:21 G	9353680.34	9353680.39	9353680.45	0.0088	0.0081	
Earth	20897-12-22 00:14 G	9353888.30	9353888.51	9353888.76	0.0088	0.0038	
Moon	20897-12-22 00:57 G	9353888.32	9353888.54	9353888.80	0.0088	0.0036	*
Earth	20898-12-24 10:48 G	9354255.73	9354255.95	9354256.19	0.0088	0.0038	
Moon	20898-12-24 10:48 G	9354255.75	9354255.95	9354256.19	0.0088	0.0041	*
Moon	20899-12-26 19:55 G	9354623.09	9354623.33	9354623.57	0.0088	0.0036	
Earth	20899-12-26 21:07 G	9354623.16	9354623.38	9354623.62	0.0088	0.0039	*
Earth	20900-12-29 07:40 G	9354990.59	9354990.82	9354991.05	0.0088	0.0039	
Moon	20900-12-29 09:50 G	9354990.71	9354990.91	9354991.16	0.0088	0.0042	*
Moon	20901-12-31 14:24 G	9355357.88	9355358.10	9355358.35	0.0088	0.0038	
Earth	20901-12-31 17:45 G	9355358.02	9355358.24	9355358.48	0.0088	0.0040	*
Earth	20903-01-03 04:19 G	9355725.45	9355725.68	9355725.91	0.0088	0.0040	
Moon	20903-01-03 07:26 G	9355725.61	9355725.81	9355726.06	0.0088	0.0044	*
Moon	20904-01-05 11:02 G	9356092.75	9356092.96	9356093.21	0.0088	0.0039	
Earth	20904-01-05 14:24 G	9356092.89	9356093.10	9356093.34	0.0088	0.0041	*
Earth	20905-01-07 00:28 G	9356460.31	9356460.52	9356460.76	0.0088	0.0041	
Moon	20905-01-07 03:21 G	9356460.43	9356460.64	9356460.88	0.0088	0.0044	*
Moon	20906-01-09 09:07 G	9356827.65	9356827.88	9356828.10	0.0088	0.0038	
Earth	20906-01-09 11:02 G	9356827.74	9356827.96	9356828.19	0.0088	0.0041	*
Earth	20907-01-11 21:07 G	9357195.16	9357195.38	9357195.61	0.0088	0.0041	
Moon	20907-01-11 21:07 G	9357195.17	9357195.38	9357195.63	0.0088	0.0044	*
Earth	20908-01-14 06:43 G	9357562.58	9357562.78	9357563.03	0.0088	0.0042	
Moon	20908-01-14 07:40 G	9357562.61	9357562.82	9357563.05	0.0088	0.0039	*
Moon	20909-01-15 15:36 G	9357929.93	9357930.15	9357930.38	0.0088	0.0044	
Earth	20909-01-15 17:02 G	9357930.00	9357930.21	9357930.46	0.0088	0.0042	*
Earth	20910-01-18 03:07 G	9358297.42	9358297.63	9358297.88	0.0088	0.0042	
Moon	20910-01-18 06:28 G	9358297.55	9358297.77	9358298.00	0.0088	0.0039	*
Moon	20911-01-20 10:19 G	9358664.71	9358664.93	9358665.16	0.0088	0.0044	

Earth	20911-01-20 13:40 G	9358664.85	9358665.07	9358665.30	0.0088	0.0041	*
Earth	20912-01-22 23:45 G	9359032.27	9359032.49	9359032.72	0.0088	0.0041	
Moon	20912-01-23 03:21 G	9359032.42	9359032.64	9359032.89	0.0088	0.0038	*
Moon	20913-01-24 06:43 G	9359399.58	9359399.78	9359400.02	0.0088	0.0044	
Earth	20913-01-24 09:50 G	9359399.70	9359399.91	9359400.15	0.0088	0.0041	*
Earth	20914-01-26 20:09 G	9359767.12	9359767.34	9359767.58	0.0088	0.0041	
Moon	20914-01-26 22:33 G	9359767.22	9359767.44	9359767.70	0.0088	0.0038	*
Moon	20915-01-29 05:02 G	9360134.50	9360134.71	9360134.94	0.0088	0.0044	
Earth	20915-01-29 06:14 G	9360134.56	9360134.76	9360135.01	0.0088	0.0041	*
Moon	20916-01-31 16:48 G	9360501.96	9360502.20	9360502.44	0.0088	0.0037	
Earth	20916-01-31 16:48 G	9360501.98	9360502.20	9360502.44	0.0088	0.0040	*
Earth	20917-02-02 02:52 G	9360869.41	9360869.62	9360869.87	0.0088	0.0040	
Moon	20917-02-02 04:04 G	9360869.47	9360869.67	9360869.90	0.0088	0.0043	*
Moon	20918-02-04 11:02 G	9361236.74	9361236.96	9361237.22	0.0088	0.0036	
Earth	20918-02-04 13:40 G	9361236.84	9361237.07	9361237.30	0.0088	0.0039	*
Earth	20919-02-06 23:31 G	9361604.27	9361604.48	9361604.73	0.0088	0.0039	
Moon	20919-02-07 02:52 G	9361604.41	9361604.62	9361604.86	0.0088	0.0042	*
Moon	20920-02-09 06:28 G	9361971.55	9361971.77	9361972.02	0.0088	0.0035	
Earth	20920-02-09 10:04 G	9361971.70	9361971.92	9361972.16	0.0088	0.0038	*
Earth	20921-02-10 20:24 G	9362339.12	9362339.35	9362339.58	0.0088	0.0037	
Moon	20921-02-11 00:00 G	9362339.28	9362339.50	9362339.73	0.0088	0.0041	*
Moon	20922-02-13 03:36 G	9362706.44	9362706.65	9362706.90	0.0088	0.0034	
Earth	20922-02-13 06:28 G	9362706.55	9362706.77	9362707.02	0.0088	0.0037	*
Earth	20923-02-15 16:48 G	9363073.98	9363074.20	9363074.45	0.0088	0.0036	
Moon	20923-02-15 18:57 G	9363074.07	9363074.29	9363074.55	0.0088	0.0040	*
Moon	20924-02-18 01:55 G	9363441.37	9363441.58	9363441.83	0.0088	0.0032	
Earth	20924-02-18 03:21 G	9363441.41	9363441.64	9363441.88	0.0088	0.0035	*
Moon	20925-02-19 13:12 G	9363808.81	9363809.05	9363809.30	0.0088	0.0037	
Earth	20925-02-19 13:55 G	9363808.85	9363809.08	9363809.32	0.0088	0.0034	*
Earth	20926-02-22 00:00 G	9364176.28	9364176.50	9364176.76	0.0088	0.0034	

Moon	20926-02-22 01:40 G	9364176.34	9364176.57	9364176.81	0.0088	0.0030	*
Moon	20927-02-24 08:24 G	9364543.62	9364543.85	9364544.10	0.0088	0.0036	
Earth	20927-02-24 10:48 G	9364543.73	9364543.95	9364544.20	0.0088	0.0033	*
Earth	20928-02-26 21:21 G	9364911.17	9364911.39	9364911.65	0.0088	0.0032	
Moon	20928-02-27 00:57 G	9364911.31	9364911.54	9364911.79	0.0088	0.0028	*
Moon	20929-02-28 04:48 G	9365278.47	9365278.70	9365278.95	0.0088	0.0034	
Earth	20929-02-28 08:24 G	9365278.61	9365278.85	9365279.09	0.0088	0.0030	*
Earth	20930-03-02 18:57 G	9365646.05	9365646.29	9365646.54	0.0088	0.0029	
Moon	20930-03-02 22:33 G	9365646.20	9365646.44	9365646.70	0.0088	0.0025	*
Moon	20931-03-05 02:52 G	9366013.41	9366013.62	9366013.88	0.0088	0.0032	
Earth	20931-03-05 05:45 G	9366013.50	9366013.74	9366013.99	0.0088	0.0028	*
Earth	20932-03-06 16:04 G	9366380.94	9366381.17	9366381.43	0.0088	0.0027	
Moon	20932-03-06 18:14 G	9366381.01	9366381.26	9366381.53	0.0088	0.0023	*
Moon	20933-03-09 02:09 G	9366748.37	9366748.59	9366748.84	0.0088	0.0030	
Earth	20933-03-09 02:52 G	9366748.39	9366748.62	9366748.88	0.0088	0.0026	*
Moon	20934-03-11 12:43 G	9367115.78	9367116.03	9367116.30	0.0088	0.0021	
Earth	20934-03-11 13:55 G	9367115.84	9367116.08	9367116.33	0.0088	0.0024	*
Earth	20935-03-14 00:28 G	9367483.28	9367483.52	9367483.78	0.0088	0.0023	
Moon	20935-03-14 01:55 G	9367483.36	9367483.58	9367483.84	0.0088	0.0027	*
Moon	20936-03-15 08:38 G	9367850.61	9367850.86	9367851.12	0.0088	0.0017	
Earth	20936-03-15 11:16 G	9367850.73	9367850.97	9367851.23	0.0088	0.0022	*
Earth	20937-03-17 22:19 G	9368218.18	9368218.43	9368218.68	0.0088	0.0020	
Moon	20937-03-18 01:40 G	9368218.33	9368218.57	9368218.82	0.0088	0.0024	*
Moon	20938-03-20 05:45 G	9368585.50	9368585.74	9368586.01	0.0088	0.0015	
Earth	20938-03-20 09:21 G	9368585.64	9368585.89	9368586.15	0.0088	0.0019	*
Earth	20939-03-22 20:24 G	9368953.10	9368953.35	9368953.61	0.0088	0.0017	
Moon	20939-03-22 23:45 G	9368953.25	9368953.49	9368953.76	0.0088	0.0022	*
Mars	20940-03-16 15:36 G	9369312.85	9369313.15	9369313.47	0.0088	0.0034	
Moon	20940-03-24 05:02 G	9369320.47	9369320.71	9369320.97	0.0088	0.0012	
Earth	20940-03-24 07:26 G	9369320.56	9369320.81	9369321.07	0.0088	0.0016	*

Earth	20941-03-26 18:43 G	9369688.03	9369688.28	9369688.54	0.0088	0.0014
Moon	20941-03-26 20:38 G	9369688.10	9369688.36	9369688.62	0.0088	0.0018 *
Mars	20942-02-10 11:45 G	9370008.74	9370008.99	9370009.29	0.0088	0.0050
Moon	20942-03-29 05:31 G	9370055.48	9370055.73	9370055.98	0.0088	0.0008
Earth	20942-03-29 06:00 G	9370055.50	9370055.75	9370056.01	0.0088	0.0013 *
Moon	20943-03-31 15:50 G	9370422.91	9370423.16	9370423.44	0.0088	0.0015
Earth	20943-03-31 17:16 G	9370422.96	9370423.22	9370423.48	0.0088	0.0011 *
Earth	20944-04-02 04:33 G	9370790.43	9370790.69	9370790.95	0.0088	0.0010
Moon	20944-04-02 06:14 G	9370790.51	9370790.76	9370791.01	0.0088	0.0006 *
Moon	20945-04-04 12:43 G	9371157.77	9371158.03	9371158.30	0.0088	0.0013
Earth	20945-04-04 15:50 G	9371157.90	9371158.16	9371158.42	0.0088	0.0008 *
Earth	20946-04-07 03:07 G	9371525.37	9371525.63	9371525.89	0.0088	0.0006
Moon	20946-04-07 06:43 G	9371525.52	9371525.78	9371526.03	0.0088	0.0002 *
Moon	20947-04-09 11:02 G	9371892.71	9371892.96	9371893.22	0.0088	0.0009
Earth	20947-04-09 14:38 G	9371892.85	9371893.11	9371893.37	0.0088	0.0005 *
Earth	20948-04-11 01:55 G	9372260.32	9372260.58	9372260.84	0.0088	0.0003
Moon	20948-04-11 05:16 G	9372260.46	9372260.72	9372260.99	0.0088	0.0002 *
Moon	20949-04-13 11:16 G	9372627.72	9372627.97	9372628.22	0.0088	0.0006
Earth	20949-04-13 13:26 G	9372627.80	9372628.06	9372628.32	0.0088	0.0001 *
Earth	20950-04-16 00:57 G	9372995.29	9372995.54	9372995.80	0.0088	0.0001
Moon	20950-04-16 02:52 G	9372995.35	9372995.62	9372995.89	0.0088	0.0004 *
Moon	20951-04-18 12:14 G	9373362.76	9373363.01	9373363.26	0.0088	0.0003
Earth	20951-04-18 12:43 G	9373362.77	9373363.03	9373363.29	0.0088	0.0002 *
Moon	20952-04-19 23:16 G	9373730.20	9373730.47	9373730.73	0.0088	0.0008
Earth	20952-04-20 00:28 G	9373730.26	9373730.52	9373730.78	0.0088	0.0003 *
Earth	20953-04-22 12:14 G	9374097.76	9374098.01	9374098.27	0.0088	0.0005
Moon	20953-04-22 14:09 G	9374097.84	9374098.09	9374098.34	0.0088	0.0001 *
Moon	20954-04-24 21:07 G	9374465.12	9374465.38	9374465.65	0.0088	0.0012
Earth	20954-04-25 00:14 G	9374465.26	9374465.51	9374465.77	0.0088	0.0007 *
Earth	20955-04-27 12:14 G	9374832.75	9374833.01	9374833.27	0.0088	0.0009

Moon	20955-04-27 15:36 G	9374832.90	9374833.15	9374833.41	0.0088	0.0005	*
Moon	20956-04-28 20:38 G	9375200.11	9375200.36	9375200.62	0.0089	0.0015	
Earth	20956-04-29 00:00 G	9375200.25	9375200.50	9375200.77	0.0089	0.0011	*
Earth	20957-05-01 12:14 G	9375567.75	9375568.01	9375568.27	0.0089	0.0012	
Moon	20957-05-01 15:36 G	9375567.89	9375568.15	9375568.42	0.0089	0.0007	*
Moon	20958-05-03 22:04 G	9375935.17	9375935.42	9375935.67	0.0089	0.0018	
Earth	20958-05-04 00:14 G	9375935.26	9375935.51	9375935.77	0.0089	0.0014	*
Earth	20959-05-06 12:14 G	9376302.76	9376303.01	9376303.27	0.0089	0.0015	
Moon	20959-05-06 14:09 G	9376302.82	9376303.09	9376303.36	0.0089	0.0011	*
Moon	20960-05-07 23:45 G	9376670.26	9376670.49	9376670.75	0.0089	0.0022	
Earth	20960-05-08 00:14 G	9376670.26	9376670.51	9376670.77	0.0089	0.0017	*
Moon	20961-05-10 11:31 G	9377037.71	9377037.98	9377038.25	0.0089	0.0014	
Earth	20961-05-10 12:28 G	9377037.77	9377038.02	9377038.28	0.0089	0.0018	*
Earth	20962-05-13 00:43 G	9377405.28	9377405.53	9377405.79	0.0089	0.0020	
Moon	20962-05-13 02:24 G	9377405.36	9377405.60	9377405.85	0.0089	0.0024	*
Moon	20963-05-15 09:50 G	9377772.66	9377772.91	9377773.18	0.0089	0.0017	
Earth	20963-05-15 12:57 G	9377772.80	9377773.04	9377773.31	0.0089	0.0022	*
Earth	20964-05-17 01:26 G	9378140.32	9378140.56	9378140.82	0.0089	0.0023	
Moon	20964-05-17 05:02 G	9378140.47	9378140.71	9378140.96	0.0089	0.0027	*
Moon	20965-05-19 10:33 G	9378507.70	9378507.94	9378508.20	0.0089	0.0020	
Earth	20965-05-19 13:55 G	9378507.85	9378508.08	9378508.35	0.0089	0.0025	*
Earth	20966-05-22 02:38 G	9378875.37	9378875.61	9378875.87	0.0089	0.0026	
Moon	20966-05-22 06:14 G	9378875.52	9378875.76	9378876.02	0.0089	0.0030	*
Venus	20966-07-30 23:31 G	9378945.41	9378945.48	9378945.58	0.0089	0.0082	
Venus	20967-03-13 12:57 G	9379170.90	9379171.04	9379171.21	0.0089	0.0062	
Moon	20967-05-24 12:57 G	9379242.80	9379243.04	9379243.29	0.0089	0.0023	
Earth	20967-05-24 15:21 G	9379242.90	9379243.14	9379243.39	0.0089	0.0027	*
Venus	20967-10-25 02:09 G	9379396.41	9379396.59	9379396.80	0.0089	0.0042	
Earth	20968-05-26 03:50 G	9379610.43	9379610.66	9379610.92	0.0089	0.0029	
Moon	20968-05-26 06:00 G	9379610.51	9379610.75	9379611.01	0.0089	0.0032	*

Venus	20968-06-06 15:21 G	9379621.93	9379622.14	9379622.36	0.0089	0.0022
Venus	20969-01-18 04:33 G	9379847.47	9379847.69	9379847.92	0.0089	0.0003
Moon	20969-05-28 16:04 G	9379977.95	9379978.17	9379978.43	0.0089	0.0026
Earth	20969-05-28 16:33 G	9379977.96	9379978.19	9379978.45	0.0089	0.0030 *
Venus	20969-08-31 17:45 G	9380073.03	9380073.24	9380073.46	0.0089	0.0018
Venus	20970-04-14 06:43 G	9380298.60	9380298.78	9380298.99	0.0089	0.0039
Moon	20970-05-31 04:19 G	9380345.45	9380345.68	9380345.94	0.0089	0.0035
Earth	20970-05-31 05:16 G	9380345.49	9380345.72	9380345.98	0.0089	0.0031 *
Venus	20970-11-25 20:09 G	9380524.18	9380524.34	9380524.51	0.0089	0.0058
Earth	20971-06-02 18:14 G	9380713.02	9380713.26	9380713.50	0.0089	0.0032
Moon	20971-06-02 19:26 G	9380713.08	9380713.31	9380713.56	0.0089	0.0029 *
Venus	20971-07-09 09:07 G	9380749.79	9380749.88	9380749.99	0.0089	0.0079
Moon	20972-06-04 03:36 G	9381080.43	9381080.65	9381080.91	0.0089	0.0038
Earth	20972-06-04 06:57 G	9381080.55	9381080.79	9381081.03	0.0089	0.0033 *
Earth	20973-06-06 19:12 G	9381448.08	9381448.30	9381448.56	0.0089	0.0035
Moon	20973-06-06 22:33 G	9381448.22	9381448.44	9381448.70	0.0089	0.0032 *
Moon	20974-06-09 04:33 G	9381815.47	9381815.69	9381815.94	0.0089	0.0039
Earth	20974-06-09 08:09 G	9381815.62	9381815.84	9381816.09	0.0089	0.0036 *
Earth	20975-06-11 20:38 G	9382183.15	9382183.36	9382183.62	0.0089	0.0038
Moon	20975-06-12 00:28 G	9382183.29	9382183.52	9382183.77	0.0089	0.0033 *
Mercury	20975-08-02 16:19 G	9382235.16	9382235.18	9382235.23	0.0089	0.0087
Mercury	20975-10-29 18:57 G	9382323.23	9382323.29	9382323.38	0.0089	0.0078
Mercury	20976-01-25 21:36 G	9382411.31	9382411.40	9382411.51	0.0089	0.0069
Mercury	20976-04-23 00:14 G	9382499.39	9382499.51	9382499.64	0.0089	0.0061
Moon	20976-06-13 07:12 G	9382550.59	9382550.80	9382551.04	0.0089	0.0041
Earth	20976-06-13 10:04 G	9382550.69	9382550.92	9382551.16	0.0089	0.0038 *
Mercury	20976-07-20 02:38 G	9382587.48	9382587.61	9382587.75	0.0089	0.0052
Mercury	20976-10-16 05:02 G	9382675.58	9382675.71	9382675.87	0.0089	0.0044
Mercury	20977-01-12 07:26 G	9382763.67	9382763.81	9382763.98	0.0089	0.0035
Mercury	20977-04-10 10:04 G	9382851.77	9382851.92	9382852.08	0.0089	0.0026

Earth	20977-06-15 23:02 G	9382918.23	9382918.46	9382918.70	0.0089	0.0039
Moon	20977-06-16 01:12 G	9382918.32	9382918.55	9382918.81	0.0089	0.0036 *
Mercury	20977-07-07 12:43 G	9382939.87	9382940.03	9382940.19	0.0089	0.0018
Mercury	20977-10-03 15:07 G	9383027.97	9383028.13	9383028.29	0.0089	0.0009
Mercury	20977-12-30 17:31 G	9383116.07	9383116.23	9383116.40	0.0089	0.0001
Mercury	20978-03-28 19:55 G	9383204.17	9383204.33	9383204.50	0.0089	0.0008
Moon	20978-06-18 11:02 G	9383285.76	9383285.96	9383286.20	0.0089	0.0043
Earth	20978-06-18 12:00 G	9383285.78	9383286.00	9383286.24	0.0089	0.0039 *
Mercury	20978-06-24 22:19 G	9383292.27	9383292.43	9383292.59	0.0089	0.0016
Mercury	20978-09-21 00:28 G	9383380.38	9383380.52	9383380.69	0.0089	0.0026
Mercury	20978-12-18 02:52 G	9383468.48	9383468.62	9383468.78	0.0089	0.0034
Mercury	20979-03-16 05:31 G	9383556.59	9383556.73	9383556.87	0.0089	0.0042
Mercury	20979-06-12 07:40 G	9383644.69	9383644.82	9383644.96	0.0089	0.0050
Moon	20979-06-21 00:28 G	9383653.29	9383653.52	9383653.78	0.0089	0.0038
Earth	20979-06-21 00:57 G	9383653.32	9383653.54	9383653.79	0.0089	0.0041 *
Mercury	20979-09-08 09:50 G	9383732.80	9383732.91	9383733.05	0.0089	0.0059
Mercury	20979-12-05 12:14 G	9383820.92	9383821.01	9383821.13	0.0089	0.0067
Mercury	20980-03-02 14:38 G	9383909.03	9383909.11	9383909.21	0.0089	0.0075
Mercury	20980-05-29 17:02 G	9383997.16	9383997.21	9383997.27	0.0089	0.0083
Earth	20980-06-22 13:55 G	9384020.87	9384021.08	9384021.33	0.0089	0.0042
Moon	20980-06-22 15:21 G	9384020.93	9384021.14	9384021.37	0.0089	0.0044 *
Moon	20981-06-25 00:28 G	9384388.29	9384388.52	9384388.77	0.0089	0.0039
Earth	20981-06-25 03:36 G	9384388.42	9384388.65	9384388.88	0.0089	0.0042 *
Earth	20982-06-27 16:19 G	9384755.97	9384756.18	9384756.42	0.0089	0.0042
Moon	20982-06-27 19:12 G	9384756.10	9384756.30	9384756.54	0.0089	0.0046 *
Moon	20983-06-30 01:55 G	9385123.35	9385123.58	9385123.82	0.0089	0.0041
Earth	20983-06-30 05:45 G	9385123.51	9385123.74	9385123.96	0.0089	0.0043 *
Earth	20984-07-01 18:14 G	9385491.05	9385491.26	9385491.51	0.0089	0.0044
Moon	20984-07-01 22:04 G	9385491.21	9385491.42	9385491.66	0.0089	0.0046 *
Moon	20985-07-04 04:48 G	9385858.48	9385858.70	9385858.93	0.0089	0.0042



Earth	20985-07-04 07:40 G	9385858.60	9385858.82	9385859.05	0.0089	0.0044 *
Earth	20986-07-06 20:52 G	9386226.14	9386226.37	9386226.59	0.0089	0.0044
Moon	20986-07-06 22:48 G	9386226.25	9386226.45	9386226.71	0.0089	0.0046 *
Moon	20987-07-09 08:38 G	9386593.65	9386593.86	9386594.09	0.0089	0.0043
Earth	20987-07-09 09:21 G	9386593.69	9386593.89	9386594.14	0.0089	0.0045 *
Moon	20988-07-10 22:48 G	9386961.23	9386961.45	9386961.70	0.0089	0.0046
Earth	20988-07-10 22:48 G	9386961.24	9386961.45	9386961.69	0.0089	0.0045 *
Earth	20989-07-13 12:00 G	9387328.79	9387329.00	9387329.24	0.0089	0.0045
Moon	20989-07-13 12:57 G	9387328.83	9387329.04	9387329.27	0.0089	0.0044 *
Moon	20990-07-15 22:33 G	9387696.23	9387696.44	9387696.69	0.0089	0.0047
Earth	20990-07-16 01:12 G	9387696.34	9387696.55	9387696.79	0.0089	0.0045 *
Earth	20991-07-18 14:24 G	9388063.89	9388064.10	9388064.34	0.0089	0.0045
Moon	20991-07-18 17:31 G	9388064.01	9388064.23	9388064.46	0.0089	0.0044 *
Jupiter	20991-08-30 19:26 G	9388106.82	9388107.31	9388107.81	0.0089	0.0028
Moon	20992-07-20 00:28 G	9388431.30	9388431.52	9388431.75	0.0090	0.0045
Earth	20992-07-20 03:50 G	9388431.45	9388431.66	9388431.90	0.0090	0.0045 *
Earth	20993-07-22 17:02 G	9388799.00	9388799.21	9388799.45	0.0090	0.0045
Moon	20993-07-22 20:52 G	9388799.15	9388799.37	9388799.61	0.0090	0.0044 *
Moon	20994-07-25 03:07 G	9389166.42	9389166.63	9389166.87	0.0090	0.0045
Earth	20994-07-25 06:00 G	9389166.55	9389166.75	9389167.00	0.0090	0.0045 *
Earth	20995-07-27 19:40 G	9389534.10	9389534.32	9389534.55	0.0090	0.0044
Moon	20995-07-27 22:19 G	9389534.22	9389534.43	9389534.67	0.0090	0.0045 *
Moon	20996-07-29 07:26 G	9389901.60	9389901.81	9389902.04	0.0090	0.0044
Earth	20996-07-29 08:38 G	9389901.65	9389901.86	9389902.10	0.0090	0.0044 *
Earth	20997-07-31 21:36 G	9390269.19	9390269.40	9390269.65	0.0090	0.0044
Moon	20997-07-31 22:04 G	9390269.21	9390269.42	9390269.68	0.0090	0.0044 *
Earth	20998-08-03 10:48 G	9390636.74	9390636.95	9390637.19	0.0090	0.0043
Moon	20998-08-03 11:31 G	9390636.77	9390636.98	9390637.21	0.0090	0.0042 *
Moon	20999-08-05 21:50 G	9391004.18	9391004.41	9391004.65	0.0090	0.0042
Earth	20999-08-06 00:14 G	9391004.28	9391004.51	9391004.74	0.0090	0.0042 *

Earth	21000-08-08 12:57 G	9391371.83	9391372.04	9391372.29	0.0090	0.0042
Moon	21000-08-08 15:36 G	9391371.94	9391372.15	9391372.39	0.0090	0.0041 *

# 22ND MILLENNIUM CE

This is a list of transits visible from Neptune in the 22nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	21001-08-10 22:48 G		9391739.23	9391739.45	9391739.69	0.0090	0.0042	
Earth	21001-08-11 02:09 G		9391739.38	9391739.59	9391739.84	0.0090	0.0041	*
Earth	21002-08-13 15:21 G		9392106.91	9392107.14	9392107.38	0.0090	0.0040	
Moon	21002-08-13 19:12 G		9392107.06	9392107.30	9392107.53	0.0090	0.0039	*
Moon	21003-08-16 01:12 G		9392474.33	9392474.55	9392474.79	0.0090	0.0041	
Earth	21003-08-16 04:48 G		9392474.47	9392474.70	9392474.93	0.0090	0.0039	*
Earth	21004-08-17 17:31 G		9392842.01	9392842.23	9392842.48	0.0090	0.0039	
Moon	21004-08-17 21:07 G		9392842.14	9392842.38	9392842.62	0.0090	0.0036	*
Moon	21005-08-20 05:02 G		9393209.50	9393209.71	9393209.95	0.0090	0.0039	
Earth	21005-08-20 06:28 G		9393209.56	9393209.77	9393210.03	0.0090	0.0038	*
Earth	21006-08-22 19:40 G		9393577.10	9393577.32	9393577.57	0.0090	0.0037	
Moon	21006-08-22 21:07 G		9393577.13	9393577.38	9393577.62	0.0090	0.0034	*
Earth	21007-08-25 08:38 G		9393944.64	9393944.86	9393945.11	0.0090	0.0035	
Moon	21007-08-25 08:52 G		9393944.66	9393944.87	9393945.11	0.0090	0.0038	*
Moon	21008-08-26 19:40 G		9394312.08	9394312.32	9394312.58	0.0090	0.0033	
Earth	21008-08-26 21:50 G		9394312.17	9394312.41	9394312.65	0.0090	0.0034	*

Earth	21009-08-29 10:19 G	9394679.70	9394679.93	9394680.18	0.0090	0.0033
Moon	21009-08-29 12:28 G	9394679.81	9394680.02	9394680.27	0.0090	0.0036 *
Moon	21010-08-31 19:40 G	9395047.08	9395047.32	9395047.58	0.0090	0.0029
Earth	21010-08-31 23:02 G	9395047.23	9395047.46	9395047.71	0.0090	0.0032 *
Earth	21011-09-03 11:31 G	9395414.76	9395414.98	9395415.24	0.0090	0.0031
Moon	21011-09-03 15:21 G	9395414.91	9395415.14	9395415.39	0.0090	0.0033 *
Moon	21012-09-04 21:07 G	9395782.15	9395782.38	9395782.64	0.0089	0.0026
Earth	21012-09-05 00:43 G	9395782.29	9395782.53	9395782.78	0.0089	0.0029 *
Earth	21013-09-07 12:57 G	9396149.81	9396150.04	9396150.30	0.0089	0.0028
Moon	21013-09-07 16:19 G	9396149.94	9396150.18	9396150.44	0.0089	0.0031 *
Moon	21014-09-10 00:00 G	9396517.27	9396517.50	9396517.75	0.0089	0.0023
Earth	21014-09-10 01:40 G	9396517.34	9396517.57	9396517.83	0.0089	0.0026 *
Earth	21015-09-12 14:24 G	9396884.86	9396885.10	9396885.36	0.0089	0.0025
Moon	21015-09-12 15:50 G	9396884.91	9396885.16	9396885.42	0.0089	0.0028 *
Earth	21016-09-14 02:52 G	9397252.39	9397252.62	9397252.89	0.0089	0.0024
Moon	21016-09-14 03:21 G	9397252.40	9397252.64	9397252.88	0.0089	0.0020 *
Moon	21017-09-16 13:55 G	9397619.84	9397620.08	9397620.35	0.0089	0.0025
Earth	21017-09-16 15:50 G	9397619.92	9397620.16	9397620.42	0.0089	0.0022 *
Earth	21018-09-19 04:04 G	9397987.43	9397987.67	9397987.93	0.0089	0.0020
Moon	21018-09-19 06:14 G	9397987.52	9397987.76	9397988.02	0.0089	0.0017 *
Moon	21019-09-21 13:12 G	9398354.81	9398355.05	9398355.32	0.0089	0.0023
Earth	21019-09-21 16:48 G	9398354.95	9398355.20	9398355.46	0.0089	0.0018 *
Earth	21020-09-23 05:16 G	9398722.47	9398722.72	9398722.97	0.0089	0.0017
Moon	21020-09-23 08:38 G	9398722.61	9398722.86	9398723.12	0.0089	0.0013 *
Moon	21021-09-25 13:40 G	9399089.83	9399090.07	9399090.33	0.0089	0.0019
Earth	21021-09-25 17:16 G	9399089.97	9399090.22	9399090.48	0.0089	0.0015 *
Mars	21021-12-07 18:14 G	9399162.99	9399163.26	9399163.56	0.0089	0.0019
Earth	21022-09-28 05:31 G	9399457.48	9399457.73	9399457.99	0.0089	0.0013
Moon	21022-09-28 08:38 G	9399457.61	9399457.86	9399458.13	0.0089	0.0009 *
Moon	21023-09-30 15:36 G	9399824.91	9399825.15	9399825.40	0.0089	0.0015

Earth	21023-09-30 17:45 G	9399824.99	9399825.24	9399825.50	0.0089	0.0011	*
Mars	21023-11-01 16:33 G	9399856.98	9399857.19	9399857.42	0.0089	0.0058	
Earth	21024-10-02 05:31 G	9400192.48	9400192.73	9400193.00	0.0089	0.0010	
Moon	21024-10-02 07:12 G	9400192.54	9400192.80	9400193.07	0.0089	0.0006	*
Earth	21025-10-04 17:45 G	9400559.98	9400560.24	9400560.50	0.0089	0.0008	
Moon	21025-10-04 17:45 G	9400559.99	9400560.24	9400560.49	0.0089	0.0012	*
Moon	21026-10-07 04:04 G	9400927.41	9400927.67	9400927.94	0.0089	0.0004	
Earth	21026-10-07 05:45 G	9400927.48	9400927.74	9400928.00	0.0089	0.0006	*
Earth	21027-10-09 17:45 G	9401294.98	9401295.24	9401295.50	0.0089	0.0005	
Moon	21027-10-09 19:40 G	9401295.07	9401295.32	9401295.57	0.0089	0.0009	*
Moon	21028-10-11 02:24 G	9401662.34	9401662.60	9401662.87	0.0089	0.0002	
Earth	21028-10-11 05:45 G	9401662.49	9401662.74	9401663.00	0.0089	0.0003	*
Earth	21029-10-13 17:31 G	9402029.98	9402030.23	9402030.49	0.0089	0.0002	
Moon	21029-10-13 21:07 G	9402030.12	9402030.38	9402030.64	0.0089	0.0005	*
Moon	21030-10-16 02:09 G	9402397.33	9402397.59	9402397.85	0.0089	0.0005	
Earth	21030-10-16 05:45 G	9402397.48	9402397.74	9402397.99	0.0089	0.0001	*
Earth	21031-10-18 17:31 G	9402764.97	9402765.23	9402765.49	0.0089	0.0002	
Moon	21031-10-18 20:38 G	9402765.10	9402765.36	9402765.63	0.0089	0.0003	*
Moon	21032-10-20 03:07 G	9403132.39	9403132.63	9403132.88	0.0089	0.0008	
Earth	21032-10-20 05:16 G	9403132.46	9403132.72	9403132.98	0.0089	0.0004	*
Earth	21033-10-22 16:48 G	9403499.95	9403500.20	9403500.46	0.0089	0.0006	
Moon	21033-10-22 18:28 G	9403500.00	9403500.27	9403500.53	0.0089	0.0002	*
Earth	21034-10-25 04:19 G	9403867.43	9403867.68	9403867.94	0.0089	0.0008	
Moon	21034-10-25 04:33 G	9403867.44	9403867.69	9403867.93	0.0089	0.0012	*
Moon	21035-10-27 14:24 G	9404234.84	9404235.10	9404235.37	0.0089	0.0005	
Earth	21035-10-27 15:50 G	9404234.91	9404235.16	9404235.42	0.0089	0.0010	*
Earth	21036-10-29 03:21 G	9404602.38	9404602.64	9404602.89	0.0089	0.0011	
Moon	21036-10-29 05:02 G	9404602.48	9404602.71	9404602.97	0.0089	0.0016	*
Moon	21037-10-31 11:16 G	9404969.71	9404969.97	9404970.23	0.0089	0.0008	
Earth	21037-10-31 14:38 G	9404969.86	9404970.11	9404970.36	0.0089	0.0013	*

Earth	21038-11-03 01:40 G	9405337.33	9405337.57	9405337.83	0.0089	0.0015
Moon	21038-11-03 05:16 G	9405337.48	9405337.72	9405337.98	0.0089	0.0019 *
Moon	21039-11-05 09:36 G	9405704.66	9405704.90	9405705.16	0.0089	0.0012
Earth	21039-11-05 13:26 G	9405704.81	9405705.06	9405705.31	0.0089	0.0016 *
Earth	21040-11-07 00:14 G	9406072.27	9406072.51	9406072.77	0.0089	0.0018
Moon	21040-11-07 03:21 G	9406072.40	9406072.64	9406072.91	0.0089	0.0023 *
Moon	21041-11-09 09:36 G	9406439.67	9406439.90	9406440.16	0.0089	0.0016
Earth	21041-11-09 11:31 G	9406439.74	9406439.98	9406440.25	0.0089	0.0020 *
Earth	21042-11-11 23:02 G	9406807.21	9406807.46	9406807.71	0.0089	0.0021
Moon	21042-11-12 00:14 G	9406807.27	9406807.51	9406807.78	0.0089	0.0026 *
Earth	21043-11-14 10:04 G	9407174.68	9407174.92	9407175.18	0.0089	0.0023
Moon	21043-11-14 10:33 G	9407174.70	9407174.94	9407175.18	0.0089	0.0018 *
Moon	21044-11-15 19:26 G	9407542.08	9407542.31	9407542.58	0.0089	0.0029
Earth	21044-11-15 21:21 G	9407542.15	9407542.39	9407542.64	0.0089	0.0024 *
Earth	21045-11-18 08:09 G	9407909.60	9407909.84	9407910.09	0.0089	0.0026
Moon	21045-11-18 10:04 G	9407909.69	9407909.92	9407910.18	0.0089	0.0022 *
Moon	21046-11-20 15:36 G	9408276.92	9408277.15	9408277.40	0.0089	0.0032
Earth	21046-11-20 19:12 G	9408277.06	9408277.30	9408277.55	0.0089	0.0027 *
Earth	21047-11-23 05:45 G	9408644.51	9408644.74	9408645.00	0.0088	0.0029
Moon	21047-11-23 09:36 G	9408644.65	9408644.90	9408645.15	0.0088	0.0024 *
Venus	21048-02-04 13:12 G	9408717.93	9408718.05	9408718.19	0.0088	0.0072
Venus	21048-09-17 01:55 G	9408943.42	9408943.58	9408943.78	0.0088	0.0053
Moon	21048-11-24 12:57 G	9409011.82	9409012.04	9409012.29	0.0088	0.0035
Earth	21048-11-24 16:48 G	9409011.96	9409012.20	9409012.45	0.0088	0.0030 *
Venus	21049-04-30 15:07 G	9409168.93	9409169.13	9409169.34	0.0088	0.0033
Earth	21049-11-27 03:07 G	9409379.41	9409379.63	9409379.89	0.0088	0.0032
Moon	21049-11-27 06:14 G	9409379.52	9409379.76	9409380.02	0.0088	0.0027 *
Venus	21049-12-12 03:50 G	9409394.45	9409394.66	9409394.88	0.0088	0.0013
Venus	21050-07-25 16:48 G	9409619.98	9409620.20	9409620.42	0.0088	0.0007
Moon	21050-11-29 12:14 G	9409746.80	9409747.01	9409747.25	0.0088	0.0037

Earth	21050-11-29 13:55 G	9409746.86	9409747.08	9409747.34	0.0088	0.0033 *
Venus	21051-03-08 05:16 G	9409845.52	9409845.72	9409845.94	0.0088	0.0027
Venus	21051-10-19 18:28 G	9410071.08	9410071.27	9410071.46	0.0088	0.0046
Earth	21051-12-02 00:43 G	9410114.30	9410114.53	9410114.78	0.0088	0.0034
Moon	21051-12-02 01:55 G	9410114.34	9410114.58	9410114.84	0.0088	0.0029 *
Venus	21052-06-01 06:57 G	9410296.65	9410296.79	9410296.95	0.0088	0.0066
Earth	21052-12-03 11:31 G	9410481.75	9410481.98	9410482.22	0.0088	0.0034
Moon	21052-12-03 11:45 G	9410481.79	9410481.99	9410482.23	0.0088	0.0040 *
Venus	21053-01-12 19:26 G	9410522.28	9410522.31	9410522.39	0.0088	0.0085
Moon	21053-12-05 20:09 G	9410849.11	9410849.34	9410849.60	0.0088	0.0032
Earth	21053-12-05 22:19 G	9410849.20	9410849.43	9410849.66	0.0088	0.0036 *
Earth	21054-12-08 08:52 G	9411216.64	9411216.87	9411217.11	0.0088	0.0037
Moon	21054-12-08 11:02 G	9411216.75	9411216.96	9411217.20	0.0088	0.0041 *
Moon	21055-12-10 15:50 G	9411583.93	9411584.16	9411584.41	0.0088	0.0033
Earth	21055-12-10 19:40 G	9411584.09	9411584.32	9411584.55	0.0088	0.0038 *
Mercury	21056-11-04 02:52 G	9411913.58	9411913.62	9411913.69	0.0088	0.0082
Earth	21056-12-12 06:00 G	9411951.53	9411951.75	9411951.99	0.0088	0.0039
Moon	21056-12-12 09:07 G	9411951.68	9411951.88	9411952.12	0.0088	0.0043 *
Mercury	21057-01-31 04:48 G	9412001.63	9412001.70	9412001.79	0.0088	0.0074
Mercury	21057-04-29 06:43 G	9412089.69	9412089.78	9412089.88	0.0088	0.0067
Mercury	21057-07-26 08:24 G	9412177.75	9412177.85	9412177.97	0.0088	0.0060
Mercury	21057-10-22 10:19 G	9412265.82	9412265.93	9412266.06	0.0088	0.0052
Moon	21057-12-14 12:57 G	9412318.82	9412319.04	9412319.29	0.0088	0.0036
Earth	21057-12-14 16:33 G	9412318.97	9412319.19	9412319.43	0.0088	0.0040 *
Mercury	21058-01-18 12:14 G	9412353.88	9412354.01	9412354.14	0.0088	0.0045
Mercury	21058-04-16 13:55 G	9412441.95	9412442.08	9412442.23	0.0088	0.0038
Mercury	21058-07-13 15:50 G	9412530.03	9412530.16	9412530.31	0.0088	0.0030
Mercury	21058-10-09 17:45 G	9412618.10	9412618.24	9412618.39	0.0088	0.0022
Earth	21058-12-17 02:52 G	9412686.41	9412686.62	9412686.86	0.0088	0.0040
Moon	21058-12-17 05:16 G	9412686.52	9412686.72	9412686.97	0.0088	0.0046 *

Mercury	21059-01-05 19:40 G	9412706.17	9412706.32	9412706.47	0.0088	0.0015
Mercury	21059-04-03 21:36 G	9412794.25	9412794.40	9412794.55	0.0088	0.0007
Mercury	21059-06-30 23:31 G	9412882.33	9412882.48	9412882.63	0.0088	0.0001
Mercury	21059-09-27 01:12 G	9412970.40	9412970.55	9412970.71	0.0088	0.0008
Moon	21059-12-19 11:45 G	9413053.78	9413053.99	9413054.23	0.0088	0.0037
Earth	21059-12-19 13:12 G	9413053.84	9413054.05	9413054.29	0.0088	0.0041 *
Mercury	21059-12-24 03:07 G	9413058.48	9413058.63	9413058.78	0.0088	0.0015
Mercury	21060-03-21 05:02 G	9413146.57	9413146.71	9413146.86	0.0088	0.0023
Mercury	21060-06-17 06:57 G	9413234.65	9413234.79	9413234.94	0.0088	0.0031
Mercury	21060-09-13 08:52 G	9413322.74	9413322.87	9413323.01	0.0088	0.0038
Mercury	21060-12-10 10:33 G	9413410.82	9413410.94	9413411.08	0.0088	0.0046
Earth	21060-12-20 23:16 G	9413421.27	9413421.47	9413421.72	0.0088	0.0043
Moon	21060-12-21 00:43 G	9413421.30	9413421.53	9413421.76	0.0088	0.0045 *
Mercury	21061-03-08 12:43 G	9413498.91	9413499.03	9413499.16	0.0088	0.0053
Mercury	21061-06-04 14:38 G	9413587.01	9413587.11	9413587.23	0.0088	0.0061
Mercury	21061-08-31 16:19 G	9413675.10	9413675.18	9413675.29	0.0088	0.0069
Mercury	21061-11-27 18:43 G	9413763.21	9413763.28	9413763.35	0.0088	0.0077
Earth	21061-12-23 10:04 G	9413788.70	9413788.92	9413789.15	0.0088	0.0042
Moon	21061-12-23 11:02 G	9413788.74	9413788.96	9413789.19	0.0088	0.0038 *
Mercury	21062-02-23 20:24 G	9413851.32	9413851.35	9413851.40	0.0088	0.0085
Moon	21062-12-25 18:00 G	9414156.04	9414156.25	9414156.49	0.0088	0.0047
Earth	21062-12-25 20:09 G	9414156.13	9414156.34	9414156.58	0.0088	0.0043 *
Earth	21063-12-28 06:57 G	9414523.56	9414523.79	9414524.01	0.0088	0.0044
Moon	21063-12-28 09:36 G	9414523.67	9414523.90	9414524.12	0.0088	0.0039 *
Moon	21064-12-29 13:26 G	9414890.85	9414891.06	9414891.28	0.0088	0.0048
Earth	21064-12-29 16:48 G	9414890.99	9414891.20	9414891.44	0.0088	0.0044 *
Earth	21066-01-01 03:21 G	9415258.42	9415258.64	9415258.86	0.0088	0.0044
Moon	21066-01-01 06:43 G	9415258.56	9415258.78	9415259.01	0.0088	0.0040 *
Moon	21067-01-03 10:04 G	9415625.73	9415625.92	9415626.15	0.0088	0.0049
Earth	21067-01-03 13:26 G	9415625.86	9415626.06	9415626.30	0.0088	0.0045 *

Earth	21068-01-05 23:45 G	9415993.29	9415993.49	9415993.73	0.0088	0.0045
Moon	21068-01-06 01:55 G	9415993.37	9415993.58	9415993.84	0.0088	0.0041 *
Moon	21069-01-07 09:07 G	9416360.69	9416360.88	9416361.10	0.0088	0.0049
Earth	21069-01-07 10:19 G	9416360.72	9416360.93	9416361.16	0.0088	0.0045 *
Earth	21070-01-09 20:52 G	9416728.15	9416728.37	9416728.59	0.0088	0.0045
Moon	21070-01-09 20:38 G	9416728.15	9416728.36	9416728.62	0.0088	0.0042 *
Earth	21071-01-12 07:12 G	9417095.58	9417095.80	9417096.02	0.0088	0.0045
Moon	21071-01-12 08:09 G	9417095.66	9417095.84	9417096.06	0.0088	0.0050 *
Moon	21072-01-14 14:24 G	9417462.89	9417463.10	9417463.36	0.0088	0.0042
Earth	21072-01-14 17:02 G	9417463.01	9417463.21	9417463.45	0.0088	0.0046 *
Earth	21073-01-16 03:36 G	9417830.43	9417830.65	9417830.87	0.0088	0.0045
Moon	21073-01-16 06:14 G	9417830.56	9417830.76	9417830.98	0.0088	0.0049 *
Moon	21074-01-18 09:50 G	9418197.70	9418197.91	9418198.15	0.0088	0.0041
Earth	21074-01-18 13:40 G	9418197.86	9418198.07	9418198.30	0.0088	0.0045 *
Earth	21075-01-20 23:45 G	9418565.28	9418565.49	9418565.72	0.0088	0.0045
Moon	21075-01-21 02:52 G	9418565.43	9418565.62	9418565.86	0.0088	0.0049 *
Moon	21076-01-23 06:57 G	9418932.57	9418932.79	9418933.02	0.0088	0.0041
Earth	21076-01-23 09:50 G	9418932.71	9418932.91	9418933.15	0.0088	0.0045 *
Earth	21077-01-24 19:55 G	9419300.13	9419300.33	9419300.57	0.0088	0.0045
Moon	21077-01-24 22:19 G	9419300.21	9419300.43	9419300.65	0.0088	0.0048 *
Moon	21078-01-27 05:31 G	9419667.53	9419667.73	9419667.97	0.0088	0.0041
Earth	21078-01-27 06:28 G	9419667.56	9419667.77	9419668.00	0.0088	0.0044 *
Earth	21079-01-29 16:33 G	9420034.98	9420035.19	9420035.43	0.0088	0.0044
Moon	21079-01-29 16:33 G	9420034.98	9420035.19	9420035.42	0.0088	0.0047 *
Earth	21080-02-01 03:07 G	9420402.41	9420402.63	9420402.86	0.0088	0.0043
Moon	21080-02-01 04:33 G	9420402.49	9420402.69	9420402.94	0.0088	0.0040 *
Moon	21081-02-02 10:48 G	9420769.73	9420769.95	9420770.18	0.0088	0.0046
Earth	21081-02-02 13:12 G	9420769.84	9420770.05	9420770.29	0.0088	0.0043 *
Earth	21082-02-04 23:45 G	9421137.27	9421137.49	9421137.73	0.0088	0.0042
Moon	21082-02-05 02:52 G	9421137.41	9421137.62	9421137.86	0.0088	0.0039 *



Moon	21083-02-07 06:43 G	9421504.56	9421504.78	9421505.00	0.0088	0.0045
Earth	21083-02-07 10:19 G	9421504.71	9421504.93	9421505.16	0.0088	0.0041 *
Earth	21084-02-09 20:09 G	9421872.13	9421872.34	9421872.59	0.0088	0.0041
Moon	21084-02-09 23:45 G	9421872.26	9421872.49	9421872.73	0.0088	0.0037 *
Moon	21085-02-11 03:50 G	9422239.45	9422239.66	9422239.89	0.0088	0.0043
Earth	21085-02-11 06:28 G	9422239.56	9422239.77	9422240.02	0.0088	0.0040 *
Earth	21086-02-13 17:02 G	9422606.99	9422607.21	9422607.45	0.0088	0.0039
Moon	21086-02-13 18:43 G	9422607.04	9422607.28	9422607.53	0.0088	0.0035 *
Moon	21087-02-16 02:52 G	9422974.42	9422974.62	9422974.85	0.0088	0.0041
Earth	21087-02-16 03:07 G	9422974.42	9422974.63	9422974.88	0.0088	0.0038 *
Moon	21088-02-18 12:57 G	9423341.81	9423342.04	9423342.30	0.0088	0.0034
Earth	21088-02-18 13:40 G	9423341.85	9423342.07	9423342.31	0.0088	0.0037 *
Earth	21089-02-19 23:45 G	9423709.28	9423709.49	9423709.75	0.0088	0.0036
Moon	21089-02-20 01:55 G	9423709.38	9423709.58	9423709.83	0.0088	0.0040 *
Moon	21090-02-22 07:40 G	9424076.58	9424076.82	9424077.07	0.0088	0.0031
Earth	21090-02-22 10:19 G	9424076.71	9424076.93	9424077.18	0.0088	0.0035 *
Earth	21091-02-24 20:38 G	9424444.14	9424444.36	9424444.62	0.0088	0.0034
Moon	21091-02-25 00:00 G	9424444.29	9424444.50	9424444.76	0.0088	0.0037 *
Moon	21092-02-27 03:50 G	9424811.43	9424811.66	9424811.91	0.0088	0.0029
Earth	21092-02-27 07:40 G	9424811.58	9424811.82	9424812.06	0.0088	0.0032 *
Earth	21093-02-28 18:00 G	9425179.02	9425179.25	9425179.50	0.0088	0.0031
Moon	21093-02-28 21:07 G	9425179.15	9425179.38	9425179.63	0.0088	0.0034 *
Moon	21094-03-03 02:24 G	9425546.36	9425546.60	9425546.84	0.0088	0.0027
Earth	21094-03-03 04:48 G	9425546.47	9425546.70	9425546.95	0.0088	0.0030 *
Earth	21095-03-05 15:07 G	9425913.91	9425914.13	9425914.40	0.0088	0.0029
Moon	21095-03-05 16:19 G	9425913.95	9425914.18	9425914.45	0.0088	0.0032 *
Earth	21096-03-07 02:09 G	9426281.36	9426281.59	9426281.85	0.0088	0.0027
Moon	21096-03-07 02:09 G	9426281.36	9426281.59	9426281.84	0.0088	0.0025 *
Moon	21097-03-09 12:00 G	9426648.76	9426649.00	9426649.26	0.0088	0.0028
Earth	21097-03-09 12:43 G	9426648.80	9426649.03	9426649.29	0.0088	0.0026 *

Earth	21098-03-11 23:45 G	9427016.25	9427016.49	9427016.74	0.0088	0.0024
Moon	21098-03-12 02:09 G	9427016.35	9427016.59	9427016.84	0.0088	0.0021 *
Moon	21099-03-14 07:12 G	9427383.56	9427383.80	9427384.07	0.0088	0.0026
Earth	21099-03-14 10:19 G	9427383.70	9427383.93	9427384.19	0.0088	0.0023 *
Earth	21100-03-16 21:07 G	9427751.14	9427751.38	9427751.64	0.0088	0.0021
Moon	21100-03-17 00:43 G	9427751.29	9427751.53	9427751.79	0.0088	0.0019 *
Moon	21101-03-19 04:33 G	9428118.45	9428118.69	9428118.95	0.0088	0.0023
Earth	21101-03-19 07:55 G	9428118.59	9428118.83	9428119.10	0.0088	0.0020 *
Earth	21102-03-21 18:57 G	9428486.04	9428486.29	9428486.55	0.0088	0.0018
Moon	21102-03-21 21:50 G	9428486.16	9428486.41	9428486.68	0.0088	0.0016 *
Moon	21103-03-24 03:36 G	9428853.41	9428853.65	9428853.90	0.0088	0.0018
Earth	21103-03-24 06:00 G	9428853.50	9428853.75	9428854.01	0.0088	0.0016 *
Mars	21103-10-31 09:21 G	9429074.71	9429074.89	9429075.15	0.0088	0.0067
Earth	21104-03-25 16:48 G	9429220.96	9429221.20	9429221.47	0.0088	0.0015
Moon	21104-03-25 17:45 G	9429220.98	9429221.24	9429221.51	0.0088	0.0012 *
Earth	21105-03-28 04:04 G	9429588.42	9429588.67	9429588.94	0.0088	0.0013
Moon	21105-03-28 04:19 G	9429588.44	9429588.68	9429588.93	0.0088	0.0015 *
Mars	21105-09-26 08:09 G	9429770.52	9429770.84	9429771.18	0.0088	0.0018
Moon	21106-03-30 14:09 G	9429955.83	9429956.09	9429956.36	0.0088	0.0009
Earth	21106-03-30 15:36 G	9429955.89	9429956.15	9429956.40	0.0088	0.0011 *
Earth	21107-04-02 02:52 G	9430323.36	9430323.62	9430323.87	0.0088	0.0010
Moon	21107-04-02 05:16 G	9430323.48	9430323.72	9430323.98	0.0088	0.0013 *
Moon	21108-04-03 10:48 G	9430690.70	9430690.95	9430691.22	0.0088	0.0006
Earth	21108-04-03 14:09 G	9430690.83	9430691.09	9430691.35	0.0088	0.0008 *
Earth	21109-04-06 01:26 G	9431058.31	9431058.56	9431058.82	0.0088	0.0006
Moon	21109-04-06 05:02 G	9431058.46	9431058.71	9431058.97	0.0088	0.0008 *
Moon	21110-04-08 09:36 G	9431425.64	9431425.90	9431426.15	0.0088	0.0002
Earth	21110-04-08 12:57 G	9431425.78	9431426.04	9431426.30	0.0088	0.0004 *
Earth	21111-04-11 00:14 G	9431793.25	9431793.51	9431793.77	0.0088	0.0002
Moon	21111-04-11 03:07 G	9431793.37	9431793.63	9431793.90	0.0088	0.0004 *

Moon	21112-04-12 09:21 G	9432160.64	9432160.89	9432161.15	0.0088	0.0001
Earth	21112-04-12 11:45 G	9432160.73	9432160.99	9432161.25	0.0088	0.0001 *
Earth	21113-04-14 23:16 G	9432528.21	9432528.47	9432528.73	0.0088	0.0001
Moon	21113-04-15 00:00 G	9432528.23	9432528.50	9432528.76	0.0088	0.0001 *
Earth	21114-04-17 10:33 G	9432895.69	9432895.94	9432896.20	0.0088	0.0003
Moon	21114-04-17 10:48 G	9432895.71	9432895.95	9432896.21	0.0088	0.0005 *
Moon	21115-04-19 20:52 G	9433263.10	9433263.37	9433263.64	0.0088	0.0004
Earth	21115-04-19 22:04 G	9433263.17	9433263.42	9433263.69	0.0088	0.0006 *
Earth	21116-04-21 09:50 G	9433630.65	9433630.91	9433631.17	0.0088	0.0007
Moon	21116-04-21 12:28 G	9433630.78	9433631.02	9433631.28	0.0088	0.0009 *
Moon	21117-04-23 18:28 G	9433998.01	9433998.27	9433998.53	0.0088	0.0007
Earth	21117-04-23 21:36 G	9433998.15	9433998.40	9433998.66	0.0088	0.0009 *
Earth	21118-04-26 09:21 G	9434365.64	9434365.89	9434366.15	0.0088	0.0010
Moon	21118-04-26 13:12 G	9434365.79	9434366.05	9434366.31	0.0088	0.0011 *
Moon	21119-04-28 18:00 G	9434733.00	9434733.25	9434733.50	0.0088	0.0011
Earth	21119-04-28 21:07 G	9434733.13	9434733.38	9434733.65	0.0088	0.0013 *
Earth	21120-04-30 09:21 G	9435100.64	9435100.89	9435101.15	0.0088	0.0014
Moon	21120-04-30 12:28 G	9435100.76	9435101.02	9435101.28	0.0088	0.0014 *
Moon	21121-05-02 19:12 G	9435468.06	9435468.30	9435468.55	0.0089	0.0016
Earth	21121-05-02 21:21 G	9435468.14	9435468.39	9435468.65	0.0089	0.0016 *
Earth	21122-05-05 09:07 G	9435835.64	9435835.88	9435836.15	0.0089	0.0018
Moon	21122-05-05 10:04 G	9435835.66	9435835.92	9435836.18	0.0089	0.0018 *
Earth	21123-05-07 21:07 G	9436203.14	9436203.38	9436203.65	0.0089	0.0020
Moon	21123-05-07 21:21 G	9436203.16	9436203.39	9436203.65	0.0089	0.0020 *
Moon	21124-05-09 07:55 G	9436570.58	9436570.83	9436571.10	0.0089	0.0021
Earth	21124-05-09 09:36 G	9436570.65	9436570.90	9436571.15	0.0089	0.0021 *
Earth	21125-05-11 21:21 G	9436938.15	9436938.39	9436938.66	0.0089	0.0023
Moon	21125-05-12 00:14 G	9436938.27	9436938.51	9436938.76	0.0089	0.0022 *
Moon	21126-05-14 06:43 G	9437305.53	9437305.78	9437306.04	0.0089	0.0024
Earth	21126-05-14 09:50 G	9437305.66	9437305.91	9437306.16	0.0089	0.0024 *

Earth	21127-05-16 21:36 G	9437673.17	9437673.40	9437673.66	0.0089	0.0026
Moon	21127-05-17 01:26 G	9437673.32	9437673.56	9437673.82	0.0089	0.0027 *
Moon	21128-05-18 06:57 G	9438040.55	9438040.79	9438041.04	0.0089	0.0027
Earth	21128-05-18 10:19 G	9438040.69	9438040.93	9438041.18	0.0089	0.0027 *
Earth	21129-05-20 22:19 G	9438408.20	9438408.43	9438408.69	0.0089	0.0029
Moon	21129-05-21 01:40 G	9438408.33	9438408.57	9438408.82	0.0089	0.0030 *
Moon	21130-05-23 08:38 G	9438775.63	9438775.86	9438776.11	0.0089	0.0029
Earth	21130-05-23 11:02 G	9438775.72	9438775.96	9438776.21	0.0089	0.0030 *
Earth	21131-05-25 23:16 G	9439143.24	9439143.47	9439143.73	0.0089	0.0032
Moon	21131-05-26 00:28 G	9439143.27	9439143.52	9439143.77	0.0089	0.0032 *
Venus	21131-06-16 23:16 G	9439165.35	9439165.47	9439165.62	0.0089	0.0070
Venus	21132-01-28 12:28 G	9439390.85	9439391.02	9439391.21	0.0089	0.0050
Earth	21132-05-27 12:14 G	9439510.77	9439511.01	9439511.26	0.0089	0.0033
Moon	21132-05-27 12:00 G	9439510.78	9439511.00	9439511.25	0.0089	0.0032 *
Venus	21132-09-10 01:40 G	9439616.37	9439616.57	9439616.79	0.0089	0.0030
Venus	21133-04-23 15:07 G	9439841.91	9439842.13	9439842.35	0.0089	0.0010
Moon	21133-05-29 23:16 G	9439878.24	9439878.47	9439878.73	0.0089	0.0036
Earth	21133-05-30 00:28 G	9439878.30	9439878.52	9439878.78	0.0089	0.0035 *
Venus	21133-12-05 04:19 G	9440067.46	9440067.68	9440067.90	0.0089	0.0010
Earth	21134-06-01 13:12 G	9440245.83	9440246.05	9440246.31	0.0089	0.0036
Moon	21134-06-01 15:50 G	9440245.95	9440246.16	9440246.41	0.0089	0.0035 *
Venus	21134-07-18 17:16 G	9440293.02	9440293.22	9440293.44	0.0089	0.0030
Venus	21135-03-01 06:28 G	9440518.60	9440518.77	9440518.96	0.0089	0.0050
Moon	21135-06-03 22:48 G	9440613.24	9440613.45	9440613.71	0.0089	0.0039
Earth	21135-06-04 02:09 G	9440613.36	9440613.59	9440613.83	0.0089	0.0037 *
Venus	21135-10-12 19:40 G	9440744.20	9440744.32	9440744.46	0.0089	0.0070
Earth	21136-06-05 14:52 G	9440980.89	9440981.12	9440981.36	0.0089	0.0038
Moon	21136-06-05 18:28 G	9440981.05	9440981.27	9440981.52	0.0089	0.0036 *
Moon	21137-06-08 00:00 G	9441348.29	9441348.50	9441348.75	0.0089	0.0042
Earth	21137-06-08 03:50 G	9441348.43	9441348.66	9441348.90	0.0089	0.0039 *

Earth	21138-06-10 16:19 G	9441715.96	9441716.18	9441716.42	0.0089	0.0041
Moon	21138-06-10 19:12 G	9441716.08	9441716.30	9441716.56	0.0089	0.0038 *
Moon	21139-06-13 02:38 G	9442083.40	9442083.61	9442083.84	0.0089	0.0044
Earth	21139-06-13 05:16 G	9442083.49	9442083.72	9442083.95	0.0089	0.0041 *
Mercury	21140-04-30 15:36 G	9442406.10	9442406.15	9442406.22	0.0089	0.0083
Earth	21140-06-14 18:00 G	9442451.03	9442451.25	9442451.49	0.0089	0.0043
Moon	21140-06-14 18:57 G	9442451.06	9442451.29	9442451.54	0.0089	0.0040 *
Mercury	21140-07-27 18:14 G	9442494.18	9442494.26	9442494.36	0.0089	0.0074
Mercury	21140-10-23 20:52 G	9442582.26	9442582.37	9442582.48	0.0089	0.0066
Mercury	21141-01-19 23:02 G	9442670.35	9442670.46	9442670.60	0.0089	0.0058
Mercury	21141-04-18 01:40 G	9442758.44	9442758.57	9442758.72	0.0089	0.0049
Moon	21141-06-17 06:14 G	9442818.57	9442818.76	9442818.99	0.0089	0.0047
Earth	21141-06-17 06:43 G	9442818.57	9442818.78	9442819.02	0.0089	0.0044 *
Mercury	21141-07-15 04:04 G	9442846.54	9442846.67	9442846.83	0.0089	0.0040
Mercury	21141-10-11 06:43 G	9442934.63	9442934.78	9442934.94	0.0089	0.0031
Mercury	21142-01-07 09:21 G	9443022.73	9443022.89	9443023.05	0.0089	0.0022
Mercury	21142-04-05 11:45 G	9443110.83	9443110.99	9443111.16	0.0089	0.0014
Moon	21142-06-19 18:28 G	9443186.05	9443186.27	9443186.52	0.0089	0.0042
Earth	21142-06-19 19:40 G	9443186.11	9443186.32	9443186.56	0.0089	0.0045 *
Mercury	21142-07-02 14:09 G	9443198.93	9443199.09	9443199.26	0.0089	0.0006
Mercury	21142-09-28 16:33 G	9443287.03	9443287.19	9443287.36	0.0089	0.0004
Mercury	21142-12-25 18:57 G	9443375.13	9443375.29	9443375.46	0.0089	0.0012
Mercury	21143-03-23 21:21 G	9443463.24	9443463.39	9443463.56	0.0089	0.0020
Mercury	21143-06-19 23:45 G	9443551.34	9443551.49	9443551.65	0.0089	0.0029
Earth	21143-06-22 08:38 G	9443553.65	9443553.86	9443554.10	0.0089	0.0045
Moon	21143-06-22 11:16 G	9443553.76	9443553.97	9443554.19	0.0089	0.0048 *
Mercury	21143-09-16 02:09 G	9443639.45	9443639.59	9443639.74	0.0089	0.0037
Mercury	21143-12-13 04:33 G	9443727.56	9443727.69	9443727.84	0.0089	0.0045
Mercury	21144-03-10 06:57 G	9443815.66	9443815.79	9443815.92	0.0089	0.0054
Mercury	21144-06-06 09:07 G	9443903.78	9443903.88	9443904.01	0.0089	0.0062

Moon	21144-06-23 19:12 G	9443921.08	9443921.30	9443921.54	0.0089	0.0043
Earth	21144-06-23 21:36 G	9443921.21	9443921.40	9443921.65	0.0089	0.0047 *
Mercury	21144-09-02 11:16 G	9443991.89	9443991.97	9443992.09	0.0089	0.0071
Mercury	21144-11-29 13:40 G	9444080.01	9444080.07	9444080.16	0.0089	0.0079
Mercury	21145-02-25 16:04 G	9444168.15	9444168.17	9444168.22	0.0089	0.0087
Earth	21145-06-26 11:02 G	9444288.75	9444288.96	9444289.19	0.0089	0.0047
Moon	21145-06-26 14:24 G	9444288.91	9444289.10	9444289.34	0.0089	0.0051 *
Moon	21146-06-28 20:38 G	9444656.15	9444656.36	9444656.60	0.0089	0.0044
Earth	21146-06-29 00:00 G	9444656.30	9444656.50	9444656.74	0.0089	0.0048 *
Earth	21147-07-01 13:26 G	9445023.85	9445024.06	9445024.29	0.0089	0.0048
Moon	21147-07-01 16:48 G	9445024.00	9445024.20	9445024.43	0.0089	0.0052 *
Moon	21148-07-02 23:45 G	9445391.29	9445391.49	9445391.73	0.0089	0.0045
Earth	21148-07-03 02:24 G	9445391.40	9445391.60	9445391.84	0.0089	0.0048 *
Earth	21149-07-05 15:21 G	9445758.94	9445759.14	9445759.38	0.0089	0.0049
Moon	21149-07-05 17:02 G	9445759.00	9445759.21	9445759.44	0.0089	0.0052 *
Moon	21150-07-08 04:04 G	9446126.46	9446126.67	9446126.89	0.0089	0.0045
Earth	21150-07-08 04:33 G	9446126.49	9446126.69	9446126.92	0.0089	0.0049 *
Moon	21151-07-10 16:48 G	9446494.00	9446494.20	9446494.43	0.0089	0.0053
Earth	21151-07-10 17:45 G	9446494.03	9446494.24	9446494.47	0.0089	0.0049 *
Earth	21152-07-12 06:57 G	9446861.58	9446861.79	9446862.01	0.0089	0.0049
Moon	21152-07-12 08:38 G	9446861.66	9446861.86	9446862.09	0.0089	0.0046 *
Moon	21153-07-14 17:31 G	9447229.02	9447229.23	9447229.45	0.0089	0.0053
Earth	21153-07-14 20:09 G	9447229.13	9447229.34	9447229.56	0.0089	0.0049 *
Earth	21154-07-17 09:07 G	9447596.67	9447596.88	9447597.10	0.0089	0.0049
Moon	21154-07-17 12:28 G	9447596.81	9447597.02	9447597.25	0.0089	0.0045 *
Moon	21155-07-19 18:43 G	9447964.09	9447964.28	9447964.50	0.0089	0.0053
Earth	21155-07-19 22:19 G	9447964.22	9447964.43	9447964.66	0.0089	0.0049 *
Earth	21156-07-21 11:31 G	9448331.77	9448331.98	9448332.21	0.0089	0.0049
Moon	21156-07-21 15:07 G	9448331.91	9448332.13	9448332.37	0.0089	0.0044 *
Moon	21157-07-23 21:50 G	9448699.22	9448699.41	9448699.63	0.0090	0.0053

Earth	21157-07-24 00:28 G	9448699.33	9448699.52	9448699.76	0.0090	0.0049 *
Jupiter	21157-10-27 12:57 G	9448794.76	9448795.04	9448795.40	0.0090	0.0071
Earth	21158-07-26 14:09 G	9449066.88	9449067.09	9449067.31	0.0090	0.0048
Moon	21158-07-26 15:50 G	9449066.94	9449067.16	9449067.41	0.0090	0.0044 *
Moon	21159-07-29 02:24 G	9449434.40	9449434.60	9449434.81	0.0090	0.0052
Earth	21159-07-29 03:07 G	9449434.43	9449434.63	9449434.87	0.0090	0.0048 *
Moon	21160-07-30 15:50 G	9449801.94	9449802.16	9449802.42	0.0090	0.0043
Earth	21160-07-30 16:48 G	9449801.98	9449802.20	9449802.42	0.0090	0.0047 *
Earth	21161-08-02 05:31 G	9450169.53	9450169.73	9450169.97	0.0090	0.0047
Moon	21161-08-02 06:57 G	9450169.61	9450169.79	9450170.02	0.0090	0.0051 *
Moon	21162-08-04 16:33 G	9450536.96	9450537.19	9450537.43	0.0090	0.0041
Earth	21162-08-04 18:43 G	9450537.07	9450537.28	9450537.51	0.0090	0.0046 *
Earth	21163-08-07 07:40 G	9450904.61	9450904.82	9450905.06	0.0090	0.0045
Moon	21163-08-07 11:02 G	9450904.76	9450904.96	9450905.19	0.0090	0.0050 *
Moon	21164-08-08 17:16 G	9451272.01	9451272.22	9451272.47	0.0090	0.0040
Earth	21164-08-08 20:38 G	9451272.16	9451272.36	9451272.61	0.0090	0.0045 *
Earth	21165-08-11 09:21 G	9451639.69	9451639.89	9451640.14	0.0090	0.0044
Moon	21165-08-11 13:26 G	9451639.85	9451640.06	9451640.29	0.0090	0.0048 *
Moon	21166-08-13 19:40 G	9452007.10	9452007.32	9452007.56	0.0090	0.0038
Earth	21166-08-13 22:33 G	9452007.23	9452007.44	9452007.69	0.0090	0.0043 *
Earth	21167-08-16 11:31 G	9452374.77	9452374.98	9452375.23	0.0090	0.0042
Moon	21167-08-16 13:55 G	9452374.87	9452375.08	9452375.33	0.0090	0.0046 *
Moon	21168-08-17 23:31 G	9452742.25	9452742.48	9452742.71	0.0090	0.0036
Earth	21168-08-18 00:43 G	9452742.32	9452742.53	9452742.78	0.0090	0.0041 *
Moon	21169-08-20 13:40 G	9453109.85	9453110.07	9453110.32	0.0090	0.0044
Earth	21169-08-20 14:09 G	9453109.86	9453110.09	9453110.32	0.0090	0.0039 *
Earth	21170-08-23 03:07 G	9453477.40	9453477.63	9453477.87	0.0090	0.0038
Moon	21170-08-23 04:19 G	9453477.45	9453477.68	9453477.91	0.0090	0.0034 *
Moon	21171-08-25 14:24 G	9453844.87	9453845.10	9453845.34	0.0090	0.0041
Earth	21171-08-25 16:04 G	9453844.95	9453845.17	9453845.42	0.0090	0.0037 *

Earth	21172-08-27 05:02 G	9454212.49	9454212.71	9454212.96	0.0090	0.0036
Moon	21172-08-27 08:24 G	9454212.62	9454212.85	9454213.10	0.0090	0.0031 *
Moon	21173-08-29 14:24 G	9454579.89	9454580.10	9454580.36	0.0090	0.0039
Earth	21173-08-29 18:14 G	9454580.02	9454580.26	9454580.50	0.0090	0.0034 *
Earth	21174-09-01 06:43 G	9454947.55	9454947.78	9454948.04	0.0090	0.0033
Moon	21174-09-01 10:33 G	9454947.70	9454947.94	9454948.19	0.0090	0.0029 *
Moon	21175-09-03 16:33 G	9455314.97	9455315.19	9455315.44	0.0090	0.0036
Earth	21175-09-03 19:55 G	9455315.09	9455315.33	9455315.58	0.0090	0.0031 *
Earth	21176-09-05 08:24 G	9455682.61	9455682.85	9455683.10	0.0089	0.0030
Moon	21176-09-05 11:02 G	9455682.71	9455682.96	9455683.22	0.0089	0.0026 *
Moon	21177-09-07 19:26 G	9456050.08	9456050.31	9456050.55	0.0089	0.0032
Earth	21177-09-07 21:21 G	9456050.14	9456050.39	9456050.63	0.0089	0.0028 *
Moon	21178-09-10 09:50 G	9456417.66	9456417.91	9456418.18	0.0089	0.0022
Earth	21178-09-10 09:36 G	9456417.67	9456417.90	9456418.16	0.0089	0.0027 *
Earth	21179-09-12 22:33 G	9456785.19	9456785.44	9456785.69	0.0089	0.0025
Moon	21179-09-12 23:02 G	9456785.24	9456785.46	9456785.71	0.0089	0.0029 *
Moon	21180-09-14 09:07 G	9457152.63	9457152.88	9457153.15	0.0089	0.0020
Earth	21180-09-14 11:02 G	9457152.72	9457152.96	9457153.22	0.0089	0.0023 *
Earth	21181-09-16 23:31 G	9457520.24	9457520.48	9457520.74	0.0089	0.0021
Moon	21181-09-17 02:24 G	9457520.37	9457520.60	9457520.86	0.0089	0.0026 *
Moon	21182-09-19 08:52 G	9457887.62	9457887.87	9457888.14	0.0089	0.0016
Earth	21182-09-19 12:14 G	9457887.77	9457888.01	9457888.27	0.0089	0.0020 *
Earth	21183-09-22 00:57 G	9458255.29	9458255.54	9458255.79	0.0089	0.0018
Moon	21183-09-22 04:48 G	9458255.45	9458255.70	9458255.95	0.0089	0.0021 *
Moon	21184-09-23 10:04 G	9458622.68	9458622.92	9458623.18	0.0089	0.0013
Earth	21184-09-23 13:12 G	9458622.81	9458623.05	9458623.32	0.0089	0.0016 *
Mars	21185-07-24 04:33 G	9458926.45	9458926.69	9458926.95	0.0089	0.0047
Earth	21185-09-26 01:40 G	9458990.32	9458990.57	9458990.83	0.0089	0.0014
Moon	21185-09-26 04:33 G	9458990.43	9458990.69	9458990.95	0.0089	0.0016 *
Moon	21186-09-28 12:14 G	9459357.77	9459358.01	9459358.26	0.0089	0.0009



Earth	21186-09-28 14:09 G	9459357.84	9459358.09	9459358.35	0.0089	0.0012 *
Mars	21187-06-18 00:14 G	9459620.24	9459620.51	9459620.79	0.0089	0.0029
Earth	21187-10-01 02:24 G	9459725.35	9459725.60	9459725.86	0.0089	0.0010
Moon	21187-10-01 02:38 G	9459725.35	9459725.61	9459725.88	0.0089	0.0013 *
Earth	21188-10-02 14:38 G	9460092.85	9460093.11	9460093.37	0.0089	0.0008
Moon	21188-10-02 15:07 G	9460092.88	9460093.13	9460093.38	0.0089	0.0006 *
Moon	21189-10-05 00:43 G	9460460.27	9460460.53	9460460.80	0.0089	0.0009
Earth	21189-10-05 02:38 G	9460460.35	9460460.61	9460460.87	0.0089	0.0006 *
Earth	21190-10-07 14:38 G	9460827.85	9460828.11	9460828.37	0.0089	0.0004
Moon	21190-10-07 17:31 G	9460827.98	9460828.23	9460828.48	0.0089	0.0002 *
Moon	21191-10-09 23:16 G	9461195.22	9461195.47	9461195.74	0.0089	0.0005
Earth	21191-10-10 02:38 G	9461195.36	9461195.61	9461195.87	0.0089	0.0003 *
Earth	21192-10-11 14:24 G	9461562.85	9461563.10	9461563.36	0.0089	0.0001
Moon	21192-10-11 18:14 G	9461563.00	9461563.26	9461563.52	0.0089	0.0002 *
Moon	21193-10-13 23:16 G	9461930.22	9461930.47	9461930.72	0.0089	0.0001
Earth	21193-10-14 02:24 G	9461930.35	9461930.60	9461930.86	0.0089	0.0002 *
Earth	21194-10-16 14:24 G	9462297.84	9462298.10	9462298.36	0.0089	0.0003
Moon	21194-10-16 17:02 G	9462297.96	9462298.21	9462298.48	0.0089	0.0005 *
Moon	21195-10-19 00:14 G	9462665.27	9462665.51	9462665.77	0.0089	0.0004
Earth	21195-10-19 02:24 G	9462665.34	9462665.60	9462665.85	0.0089	0.0005 *
Earth	21196-10-20 14:09 G	9463032.83	9463033.09	9463033.35	0.0089	0.0007
Moon	21196-10-20 14:24 G	9463032.84	9463033.10	9463033.37	0.0089	0.0009 *
Earth	21197-10-23 01:40 G	9463400.32	9463400.57	9463400.83	0.0089	0.0009
Moon	21197-10-23 02:09 G	9463400.35	9463400.59	9463400.84	0.0089	0.0008 *
Moon	21198-10-25 11:31 G	9463767.72	9463767.98	9463768.25	0.0089	0.0013
Earth	21198-10-25 13:26 G	9463767.81	9463768.06	9463768.32	0.0089	0.0011 *
Earth	21199-10-28 00:57 G	9464135.29	9464135.54	9464135.80	0.0089	0.0013
Moon	21199-10-28 03:50 G	9464135.42	9464135.66	9464135.91	0.0089	0.0011 *
Moon	21200-10-29 08:52 G	9464502.63	9464502.87	9464503.14	0.0089	0.0016
Earth	21200-10-29 12:14 G	9464502.76	9464503.01	9464503.27	0.0089	0.0015 *

Earth	21201-10-31 23:31 G	9464870.24	9464870.48	9464870.74	0.0089	0.0017
Moon	21201-11-01 03:21 G	9464870.39	9464870.64	9464870.90	0.0089	0.0016 *
Moon	21202-11-03 07:55 G	9465237.59	9465237.83	9465238.08	0.0089	0.0020
Earth	21202-11-03 11:16 G	9465237.72	9465237.97	9465238.22	0.0089	0.0018 *
Earth	21203-11-05 22:19 G	9465605.18	9465605.43	9465605.68	0.0089	0.0020
Moon	21203-11-06 00:57 G	9465605.29	9465605.54	9465605.81	0.0089	0.0020 *
Moon	21204-11-07 07:40 G	9465972.59	9465972.82	9465973.07	0.0089	0.0023
Earth	21204-11-07 09:21 G	9465972.66	9465972.89	9465973.15	0.0089	0.0022 *
Earth	21205-11-09 20:38 G	9466340.12	9466340.36	9466340.62	0.0089	0.0024
Moon	21205-11-09 20:38 G	9466340.12	9466340.36	9466340.63	0.0089	0.0023 *
Earth	21206-11-12 08:09 G	9466707.59	9466707.84	9466708.08	0.0089	0.0025
Moon	21206-11-12 08:24 G	9466707.62	9466707.85	9466708.10	0.0089	0.0026 *
Moon	21207-11-14 17:16 G	9467074.97	9467075.22	9467075.48	0.0089	0.0026
Earth	21207-11-14 19:12 G	9467075.06	9467075.30	9467075.55	0.0089	0.0027 *
Earth	21208-11-16 06:00 G	9467442.53	9467442.75	9467443.01	0.0089	0.0029
Moon	21208-11-16 09:07 G	9467442.66	9467442.88	9467443.13	0.0089	0.0030 *
Moon	21209-11-18 14:09 G	9467809.86	9467810.09	9467810.35	0.0089	0.0030
Earth	21209-11-18 17:31 G	9467810.00	9467810.23	9467810.48	0.0089	0.0030 *
Earth	21210-11-21 04:19 G	9468177.46	9468177.68	9468177.94	0.0089	0.0032
Moon	21210-11-21 08:09 G	9468177.62	9468177.84	9468178.10	0.0089	0.0032 *
Moon	21211-11-23 12:28 G	9468544.80	9468545.02	9468545.27	0.0088	0.0032
Earth	21211-11-23 15:36 G	9468544.92	9468545.15	9468545.40	0.0088	0.0033 *
Venus	21212-05-09 00:00 G	9468712.41	9468712.50	9468712.59	0.0088	0.0080
Earth	21212-11-25 02:09 G	9468912.37	9468912.59	9468912.84	0.0088	0.0035
Moon	21212-11-25 05:02 G	9468912.48	9468912.71	9468912.97	0.0088	0.0034 *
Venus	21212-12-20 12:28 G	9468937.87	9468938.02	9468938.19	0.0088	0.0061
Venus	21213-08-03 01:26 G	9469163.38	9469163.56	9469163.77	0.0088	0.0041
Moon	21213-11-27 11:45 G	9469279.77	9469279.99	9469280.23	0.0088	0.0036
Earth	21213-11-27 13:12 G	9469279.83	9469280.05	9469280.30	0.0088	0.0036 *
Venus	21214-03-16 14:09 G	9469388.89	9469389.09	9469389.32	0.0088	0.0022

Venus	21214-10-28 03:21 G	9469614.42	9469614.64	9469614.86	0.0088	0.0001
Moon	21214-11-29 23:45 G	9469647.27	9469647.49	9469647.75	0.0088	0.0037
Earth	21214-11-29 23:45 G	9469647.28	9469647.49	9469647.74	0.0088	0.0037 *
Venus	21215-06-10 16:04 G	9469839.96	9469840.17	9469840.39	0.0088	0.0018
Earth	21215-12-02 10:33 G	9470014.72	9470014.94	9470015.19	0.0088	0.0038
Moon	21215-12-02 11:31 G	9470014.76	9470014.98	9470015.21	0.0088	0.0039 *
Venus	21216-01-22 04:48 G	9470065.51	9470065.70	9470065.91	0.0088	0.0038
Venus	21216-09-03 17:31 G	9470291.08	9470291.23	9470291.41	0.0088	0.0058
Moon	21216-12-03 18:57 G	9470382.07	9470382.29	9470382.54	0.0088	0.0039
Earth	21216-12-03 21:21 G	9470382.17	9470382.39	9470382.63	0.0088	0.0039 *
Venus	21217-04-17 06:43 G	9470516.67	9470516.78	9470516.89	0.0088	0.0077
Earth	21217-12-06 07:55 G	9470749.62	9470749.83	9470750.07	0.0088	0.0041
Moon	21217-12-06 11:02 G	9470749.75	9470749.96	9470750.20	0.0088	0.0041 *
Moon	21218-12-08 15:07 G	9471116.92	9471117.13	9471117.38	0.0088	0.0041
Earth	21218-12-08 18:43 G	9471117.07	9471117.28	9471117.52	0.0088	0.0042 *
Earth	21219-12-11 05:16 G	9471484.51	9471484.72	9471484.95	0.0088	0.0043
Moon	21219-12-11 08:52 G	9471484.66	9471484.87	9471485.11	0.0088	0.0044 *
Moon	21220-12-12 13:12 G	9471851.84	9471852.05	9471852.28	0.0088	0.0043
Earth	21220-12-12 16:04 G	9471851.96	9471852.17	9471852.40	0.0088	0.0044 *
Mercury	21221-05-06 00:43 G	9471996.50	9471996.53	9471996.57	0.0088	0.0085
Mercury	21221-08-02 02:24 G	9472084.55	9472084.60	9472084.68	0.0088	0.0078
Mercury	21221-10-29 04:33 G	9472172.60	9472172.69	9472172.77	0.0088	0.0071
Earth	21221-12-15 02:38 G	9472219.40	9472219.61	9472219.84	0.0088	0.0045
Moon	21221-12-15 05:31 G	9472219.50	9472219.73	9472219.95	0.0088	0.0046 *
Mercury	21222-01-25 06:14 G	9472260.66	9472260.76	9472260.86	0.0088	0.0063
Mercury	21222-04-23 07:55 G	9472348.72	9472348.83	9472348.95	0.0088	0.0056
Mercury	21222-07-20 09:36 G	9472436.79	9472436.90	9472437.04	0.0088	0.0049
Mercury	21222-10-16 11:31 G	9472524.86	9472524.98	9472525.12	0.0088	0.0042
Moon	21222-12-17 12:14 G	9472586.80	9472587.01	9472587.23	0.0088	0.0045
Earth	21222-12-17 13:12 G	9472586.85	9472587.05	9472587.29	0.0088	0.0045 *

Mercury	21223-01-12 13:26 G	9472612.93	9472613.06	9472613.20	0.0088	0.0034
Mercury	21223-04-10 15:21 G	9472701.00	9472701.14	9472701.29	0.0088	0.0026
Mercury	21223-07-07 17:16 G	9472789.07	9472789.22	9472789.37	0.0088	0.0019
Mercury	21223-10-03 19:12 G	9472877.15	9472877.30	9472877.45	0.0088	0.0012
Moon	21223-12-19 23:16 G	9472954.26	9472954.47	9472954.71	0.0088	0.0047
Earth	21223-12-19 23:45 G	9472954.29	9472954.49	9472954.72	0.0088	0.0046 *
Mercury	21223-12-30 20:52 G	9472965.22	9472965.37	9472965.53	0.0088	0.0005
Mercury	21224-03-27 22:48 G	9473053.30	9473053.45	9473053.60	0.0088	0.0004
Mercury	21224-06-24 00:43 G	9473141.38	9473141.53	9473141.68	0.0088	0.0011
Mercury	21224-09-20 02:38 G	9473229.46	9473229.61	9473229.76	0.0088	0.0019
Mercury	21224-12-17 04:33 G	9473317.54	9473317.69	9473317.84	0.0088	0.0026
Earth	21224-12-21 09:50 G	9473321.72	9473321.91	9473322.15	0.0088	0.0048
Moon	21224-12-21 11:02 G	9473321.77	9473321.96	9473322.19	0.0088	0.0046 *
Mercury	21225-03-15 06:14 G	9473405.63	9473405.76	9473405.91	0.0088	0.0034
Mercury	21225-06-11 08:24 G	9473493.71	9473493.85	9473493.98	0.0088	0.0042
Mercury	21225-09-07 10:04 G	9473581.80	9473581.92	9473582.06	0.0088	0.0049
Mercury	21225-12-04 12:00 G	9473669.89	9473670.00	9473670.13	0.0088	0.0057
Moon	21225-12-23 18:00 G	9473689.04	9473689.25	9473689.48	0.0088	0.0048
Earth	21225-12-23 20:38 G	9473689.16	9473689.36	9473689.59	0.0088	0.0047 *
Mercury	21226-03-02 14:09 G	9473757.99	9473758.09	9473758.19	0.0088	0.0065
Mercury	21226-05-29 16:04 G	9473846.09	9473846.17	9473846.26	0.0088	0.0072
Mercury	21226-08-25 17:45 G	9473934.19	9473934.24	9473934.32	0.0088	0.0080
Mercury	21226-11-21 19:55 G	9474022.33	9474022.33	9474022.35	0.0088	0.0088
Earth	21226-12-26 06:43 G	9474056.59	9474056.78	9474057.02	0.0088	0.0048
Moon	21226-12-26 10:19 G	9474056.73	9474056.93	9474057.15	0.0088	0.0047 *
Moon	21227-12-28 13:26 G	9474423.87	9474424.06	9474424.30	0.0088	0.0050
Earth	21227-12-28 17:16 G	9474424.02	9474424.22	9474424.45	0.0088	0.0048 *
Earth	21228-12-30 03:21 G	9474791.45	9474791.64	9474791.87	0.0088	0.0049
Moon	21228-12-30 07:12 G	9474791.59	9474791.80	9474792.03	0.0088	0.0047 *
Moon	21230-01-01 11:02 G	9475158.78	9475158.96	9475159.19	0.0088	0.0050

Earth	21230-01-01 13:40 G	9475158.88	9475159.07	9475159.31	0.0088	0.0049	*
Earth	21231-01-04 00:00 G	9475526.30	9475526.50	9475526.73	0.0088	0.0049	
Moon	21231-01-04 02:24 G	9475526.39	9475526.60	9475526.83	0.0088	0.0047	*
Moon	21232-01-06 09:36 G	9475893.71	9475893.90	9475894.12	0.0088	0.0051	
Earth	21232-01-06 10:33 G	9475893.73	9475893.94	9475894.16	0.0088	0.0049	*
Moon	21233-01-07 19:40 G	9476261.12	9476261.32	9476261.56	0.0088	0.0049	
Earth	21233-01-07 20:24 G	9476261.16	9476261.35	9476261.59	0.0088	0.0050	*
Earth	21234-01-10 06:43 G	9476628.59	9476628.78	9476629.02	0.0088	0.0050	
Moon	21234-01-10 08:38 G	9476628.67	9476628.86	9476629.07	0.0088	0.0051	*
Moon	21235-01-12 14:24 G	9476995.90	9476996.10	9476996.34	0.0088	0.0048	
Earth	21235-01-12 17:16 G	9476996.03	9476996.22	9476996.45	0.0088	0.0050	*
Earth	21236-01-15 03:21 G	9477363.45	9477363.64	9477363.87	0.0088	0.0050	
Moon	21236-01-15 06:43 G	9477363.60	9477363.78	9477364.01	0.0088	0.0051	*
Moon	21237-01-16 10:33 G	9477730.73	9477730.94	9477731.17	0.0088	0.0047	
Earth	21237-01-16 14:09 G	9477730.88	9477731.09	9477731.31	0.0088	0.0049	*
Earth	21238-01-19 00:14 G	9478098.31	9478098.51	9478098.73	0.0088	0.0049	
Moon	21238-01-19 03:36 G	9478098.45	9478098.65	9478098.88	0.0088	0.0051	*
Moon	21239-01-21 07:55 G	9478465.64	9478465.83	9478466.06	0.0088	0.0048	
Earth	21239-01-21 10:19 G	9478465.73	9478465.93	9478466.16	0.0088	0.0049	*
Earth	21240-01-23 20:52 G	9478833.15	9478833.37	9478833.58	0.0088	0.0048	
Moon	21240-01-23 22:04 G	9478833.23	9478833.42	9478833.66	0.0088	0.0051	*
Moon	21241-01-25 06:43 G	9479200.57	9479200.78	9479200.99	0.0088	0.0046	
Earth	21241-01-25 06:43 G	9479200.58	9479200.78	9479201.01	0.0088	0.0048	*
Moon	21242-01-27 15:21 G	9479567.94	9479568.14	9479568.39	0.0088	0.0049	
Earth	21242-01-27 16:48 G	9479568.00	9479568.20	9479568.43	0.0088	0.0048	*
Earth	21243-01-30 03:07 G	9479935.43	9479935.63	9479935.86	0.0088	0.0047	
Moon	21243-01-30 05:02 G	9479935.51	9479935.71	9479935.94	0.0088	0.0045	*
Moon	21244-02-01 10:04 G	9480302.72	9480302.92	9480303.15	0.0088	0.0048	
Earth	21244-02-01 13:26 G	9480302.85	9480303.06	9480303.29	0.0088	0.0046	*
Earth	21245-02-02 23:31 G	9480670.28	9480670.48	9480670.72	0.0088	0.0046	

Moon	21245-02-03 03:07 G	9480670.42	9480670.63	9480670.86	0.0088	0.0044	*
Moon	21246-02-05 06:57 G	9481037.57	9481037.79	9481038.00	0.0088	0.0047	
Earth	21246-02-05 10:04 G	9481037.72	9481037.92	9481038.16	0.0088	0.0045	*
Earth	21247-02-07 20:24 G	9481405.14	9481405.35	9481405.58	0.0088	0.0044	
Moon	21247-02-07 23:31 G	9481405.27	9481405.48	9481405.73	0.0088	0.0042	*
Moon	21248-02-10 05:02 G	9481772.50	9481772.71	9481772.93	0.0088	0.0045	
Earth	21248-02-10 06:57 G	9481772.58	9481772.79	9481773.02	0.0088	0.0043	*
Earth	21249-02-11 17:31 G	9482140.01	9482140.23	9482140.46	0.0088	0.0042	
Moon	21249-02-11 18:57 G	9482140.06	9482140.29	9482140.53	0.0088	0.0039	*
Earth	21250-02-14 03:50 G	9482507.44	9482507.66	9482507.89	0.0088	0.0041	
Moon	21250-02-14 03:50 G	9482507.46	9482507.66	9482507.89	0.0088	0.0044	*
Moon	21251-02-16 12:28 G	9482874.79	9482875.02	9482875.27	0.0088	0.0038	
Earth	21251-02-16 14:09 G	9482874.87	9482875.09	9482875.33	0.0088	0.0040	*
Earth	21252-02-19 00:14 G	9483242.30	9483242.51	9483242.76	0.0088	0.0039	
Moon	21252-02-19 02:24 G	9483242.40	9483242.60	9483242.84	0.0088	0.0042	*
Moon	21253-02-20 07:26 G	9483609.59	9483609.81	9483610.06	0.0088	0.0035	
Earth	21253-02-20 10:48 G	9483609.74	9483609.95	9483610.20	0.0088	0.0038	*
Earth	21254-02-22 21:36 G	9483977.17	9483977.40	9483977.64	0.0088	0.0036	
Moon	21254-02-23 00:43 G	9483977.32	9483977.53	9483977.78	0.0088	0.0039	*
Moon	21255-02-25 04:19 G	9484344.45	9484344.68	9484344.93	0.0088	0.0032	
Earth	21255-02-25 07:40 G	9484344.60	9484344.82	9484345.07	0.0088	0.0035	*
Earth	21256-02-27 18:00 G	9484712.03	9484712.25	9484712.51	0.0088	0.0034	
Moon	21256-02-27 21:07 G	9484712.16	9484712.38	9484712.63	0.0088	0.0037	*
Moon	21257-03-01 03:07 G	9485079.41	9485079.63	9485079.88	0.0088	0.0030	
Earth	21257-03-01 05:02 G	9485079.47	9485079.71	9485079.95	0.0088	0.0032	*
Earth	21258-03-03 15:21 G	9485446.91	9485447.14	9485447.39	0.0088	0.0031	
Moon	21258-03-03 16:19 G	9485446.95	9485447.18	9485447.44	0.0088	0.0034	*
Earth	21259-03-06 02:09 G	9485814.36	9485814.59	9485814.84	0.0088	0.0029	
Moon	21259-03-06 02:38 G	9485814.39	9485814.61	9485814.86	0.0088	0.0027	*
Moon	21260-03-07 10:48 G	9486181.71	9486181.95	9486182.21	0.0088	0.0030	

Earth	21260-03-07 12:43 G	9486181.80	9486182.03	9486182.29	0.0088	0.0028	*
Earth	21261-03-09 23:45 G	9486549.25	9486549.49	9486549.74	0.0088	0.0026	
Moon	21261-03-10 02:09 G	9486549.36	9486549.59	9486549.84	0.0088	0.0023	*
Moon	21262-03-12 07:12 G	9486916.55	9486916.80	9486917.05	0.0088	0.0027	
Earth	21262-03-12 10:48 G	9486916.70	9486916.95	9486917.20	0.0088	0.0024	*
Earth	21263-03-14 21:07 G	9487284.14	9487284.38	9487284.64	0.0088	0.0023	
Moon	21263-03-15 00:43 G	9487284.29	9487284.53	9487284.79	0.0088	0.0020	*
Moon	21264-03-16 04:33 G	9487651.46	9487651.69	9487651.95	0.0088	0.0025	
Earth	21264-03-16 08:09 G	9487651.60	9487651.84	9487652.10	0.0088	0.0021	*
Earth	21265-03-18 18:57 G	9488019.04	9488019.29	9488019.55	0.0088	0.0019	
Moon	21265-03-18 21:36 G	9488019.15	9488019.40	9488019.67	0.0088	0.0016	*
Moon	21266-03-21 04:19 G	9488386.44	9488386.68	9488386.93	0.0088	0.0020	
Earth	21266-03-21 05:45 G	9488386.49	9488386.74	9488387.00	0.0088	0.0017	*
Earth	21267-03-23 16:48 G	9488753.95	9488754.20	9488754.45	0.0088	0.0015	
Moon	21267-03-23 17:31 G	9488753.97	9488754.23	9488754.50	0.0088	0.0012	*
Earth	21268-03-25 03:21 G	9489121.40	9489121.64	9489121.91	0.0088	0.0014	
Moon	21268-03-25 04:33 G	9489121.45	9489121.69	9489121.94	0.0088	0.0017	*
Moon	21269-03-27 12:28 G	9489488.76	9489489.02	9489489.29	0.0088	0.0009	
Earth	21269-03-27 14:38 G	9489488.86	9489489.11	9489489.37	0.0088	0.0012	*
Mars	21269-05-10 04:04 G	9489532.35	9489532.67	9489533.02	0.0088	0.0015	
Earth	21270-03-30 01:40 G	9489856.32	9489856.57	9489856.83	0.0088	0.0010	
Moon	21270-03-30 04:04 G	9489856.43	9489856.67	9489856.93	0.0088	0.0015	*
Moon	21271-04-01 09:21 G	9490223.63	9490223.89	9490224.15	0.0088	0.0005	
Earth	21271-04-01 12:57 G	9490223.78	9490224.04	9490224.30	0.0088	0.0008	*
Mars	21271-04-06 01:26 G	9490228.38	9490228.56	9490228.79	0.0088	0.0071	
Earth	21272-04-03 00:00 G	9490591.25	9490591.50	9490591.77	0.0088	0.0007	
Moon	21272-04-03 03:21 G	9490591.39	9490591.64	9490591.91	0.0088	0.0010	*
Moon	21273-04-05 08:09 G	9490958.59	9490958.84	9490959.10	0.0088	0.0001	
Earth	21273-04-05 11:31 G	9490958.73	9490958.98	9490959.24	0.0088	0.0005	*
Earth	21274-04-07 22:48 G	9491326.19	9491326.45	9491326.71	0.0088	0.0002	

Moon	21274-04-08 01:26 G	9491326.29	9491326.56	9491326.82	0.0088	0.0006	*
Moon	21275-04-10 09:07 G	9491693.63	9491693.88	9491694.13	0.0088	0.0004	
Earth	21275-04-10 10:19 G	9491693.67	9491693.93	9491694.19	0.0088	0.0000	*
Earth	21276-04-11 21:36 G	9492061.15	9492061.40	9492061.66	0.0088	0.0003	
Moon	21276-04-11 22:19 G	9492061.16	9492061.43	9492061.70	0.0088	0.0002	*
Earth	21277-04-14 09:07 G	9492428.62	9492428.88	9492429.14	0.0088	0.0004	
Moon	21277-04-14 10:19 G	9492428.68	9492428.93	9492429.18	0.0088	0.0008	*
Moon	21278-04-16 18:28 G	9492796.00	9492796.27	9492796.53	0.0088	0.0002	
Earth	21278-04-16 20:38 G	9492796.10	9492796.36	9492796.62	0.0088	0.0006	*
Earth	21279-04-19 08:09 G	9493163.58	9493163.84	9493164.09	0.0088	0.0008	
Moon	21279-04-19 10:33 G	9493163.70	9493163.94	9493164.20	0.0088	0.0013	*
Moon	21280-04-20 16:04 G	9493530.91	9493531.17	9493531.43	0.0088	0.0005	
Earth	21280-04-20 19:40 G	9493531.07	9493531.32	9493531.58	0.0088	0.0010	*
Earth	21281-04-23 07:12 G	9493898.55	9493898.80	9493899.06	0.0088	0.0012	
Moon	21281-04-23 10:48 G	9493898.70	9493898.95	9493899.21	0.0088	0.0016	*
Moon	21282-04-25 15:36 G	9494265.90	9494266.15	9494266.41	0.0088	0.0009	
Earth	21282-04-25 18:57 G	9494266.04	9494266.29	9494266.55	0.0088	0.0014	*
Earth	21283-04-28 06:43 G	9494633.53	9494633.78	9494634.04	0.0088	0.0015	
Moon	21283-04-28 09:21 G	9494633.63	9494633.89	9494634.15	0.0088	0.0020	*
Moon	21284-04-29 17:31 G	9495000.99	9495001.23	9495001.48	0.0088	0.0013	
Earth	21284-04-29 18:43 G	9495001.03	9495001.28	9495001.54	0.0088	0.0018	*
Earth	21285-05-02 06:28 G	9495368.53	9495368.77	9495369.04	0.0088	0.0020	
Moon	21285-05-02 07:12 G	9495368.55	9495368.80	9495369.07	0.0088	0.0024	*
Earth	21286-05-04 18:43 G	9495736.04	9495736.28	9495736.54	0.0089	0.0021	
Moon	21286-05-04 20:09 G	9495736.09	9495736.34	9495736.59	0.0089	0.0017	*
Moon	21287-05-07 04:48 G	9496103.45	9496103.70	9496103.96	0.0089	0.0027	
Earth	21287-05-07 06:57 G	9496103.55	9496103.79	9496104.05	0.0089	0.0023	*
Earth	21288-05-08 19:12 G	9496471.05	9496471.30	9496471.55	0.0089	0.0025	
Moon	21288-05-08 21:36 G	9496471.17	9496471.40	9496471.66	0.0089	0.0021	*
Moon	21289-05-11 03:21 G	9496838.41	9496838.64	9496838.90	0.0089	0.0032	



Earth	21289-05-11 07:12 G	9496838.57	9496838.80	9496839.06	0.0089	0.0027 *
Earth	21290-05-13 19:12 G	9497206.07	9497206.30	9497206.56	0.0089	0.0029
Moon	21290-05-13 22:48 G	9497206.21	9497206.45	9497206.71	0.0089	0.0024 *
Moon	21291-05-16 04:04 G	9497573.45	9497573.67	9497573.92	0.0089	0.0035
Earth	21291-05-16 07:40 G	9497573.58	9497573.82	9497574.07	0.0089	0.0030 *
Earth	21292-05-17 19:40 G	9497941.09	9497941.32	9497941.58	0.0089	0.0032
Moon	21292-05-17 22:19 G	9497941.19	9497941.43	9497941.69	0.0089	0.0027 *
Moon	21293-05-20 06:28 G	9498308.56	9498308.77	9498309.01	0.0089	0.0038
Earth	21293-05-20 08:09 G	9498308.60	9498308.84	9498309.08	0.0089	0.0033 *
Earth	21294-05-22 20:24 G	9498676.12	9498676.35	9498676.60	0.0089	0.0035
Moon	21294-05-22 20:52 G	9498676.13	9498676.37	9498676.64	0.0089	0.0031 *
Earth	21295-05-25 08:38 G	9499043.64	9499043.86	9499044.11	0.0089	0.0037
Moon	21295-05-25 09:50 G	9499043.70	9499043.91	9499044.14	0.0089	0.0041 *
Venus	21295-09-18 10:19 G	9499159.84	9499159.93	9499160.05	0.0089	0.0078
Venus	21296-04-30 23:31 G	9499385.33	9499385.48	9499385.66	0.0089	0.0058
Moon	21296-05-26 19:12 G	9499411.07	9499411.30	9499411.56	0.0089	0.0034
Earth	21296-05-26 21:21 G	9499411.17	9499411.39	9499411.63	0.0089	0.0038 *
Venus	21296-12-12 12:43 G	9499610.84	9499611.03	9499611.24	0.0089	0.0038
Earth	21297-05-29 10:04 G	9499778.69	9499778.92	9499779.16	0.0089	0.0039
Moon	21297-05-29 12:28 G	9499778.82	9499779.02	9499779.26	0.0089	0.0044 *
Venus	21297-07-26 01:55 G	9499836.37	9499836.58	9499836.81	0.0089	0.0018
Venus	21298-03-08 15:21 G	9500061.92	9500062.14	9500062.37	0.0089	0.0003
Moon	21298-05-31 18:57 G	9500146.06	9500146.29	9500146.54	0.0089	0.0036
Earth	21298-05-31 22:19 G	9500146.22	9500146.43	9500146.68	0.0089	0.0041 *
Venus	21298-10-20 04:19 G	9500287.48	9500287.68	9500287.91	0.0089	0.0023
Venus	21299-06-02 17:16 G	9500513.05	9500513.22	9500513.43	0.0089	0.0043
Earth	21299-06-03 11:16 G	9500513.75	9500513.97	9500514.21	0.0089	0.0042
Moon	21299-06-03 14:52 G	9500513.91	9500514.12	9500514.35	0.0089	0.0046 *
Venus	21300-01-14 06:14 G	9500738.63	9500738.76	9500738.94	0.0089	0.0063
Moon	21300-06-05 20:38 G	9500881.14	9500881.36	9500881.60	0.0089	0.0039

Earth	21300-06-06 00:14 G	9500881.29	9500881.51	9500881.75	0.0089	0.0043 *
Venus	21300-08-27 19:26 G	9500964.26	9500964.31	9500964.42	0.0089	0.0083
Earth	21301-06-08 12:43 G	9501248.82	9501249.03	9501249.27	0.0089	0.0045
Moon	21301-06-08 15:07 G	9501248.93	9501249.13	9501249.37	0.0089	0.0049 *
Moon	21302-06-10 23:31 G	9501616.28	9501616.48	9501616.72	0.0089	0.0042
Earth	21302-06-11 01:40 G	9501616.35	9501616.57	9501616.80	0.0089	0.0046 *
Earth	21303-06-13 14:24 G	9501983.89	9501984.10	9501984.33	0.0089	0.0047
Moon	21303-06-13 15:21 G	9501983.93	9501984.14	9501984.37	0.0089	0.0051 *
Earth	21304-06-15 03:21 G	9502351.42	9502351.64	9502351.86	0.0089	0.0048
Moon	21304-06-15 04:04 G	9502351.45	9502351.67	9502351.89	0.0089	0.0043 *
Mercury	21304-10-30 12:43 G	9502489.00	9502489.03	9502489.06	0.0089	0.0088
Mercury	21305-01-26 14:52 G	9502577.06	9502577.12	9502577.21	0.0089	0.0079
Mercury	21305-04-24 17:31 G	9502665.14	9502665.23	9502665.34	0.0089	0.0070
Moon	21305-06-17 13:55 G	9502718.88	9502719.08	9502719.32	0.0089	0.0053
Earth	21305-06-17 15:50 G	9502718.95	9502719.16	9502719.39	0.0089	0.0048 *
Mercury	21305-07-21 20:09 G	9502753.22	9502753.34	9502753.46	0.0089	0.0061
Mercury	21305-10-17 22:19 G	9502841.32	9502841.43	9502841.58	0.0089	0.0054
Mercury	21306-01-14 00:57 G	9502929.41	9502929.54	9502929.70	0.0089	0.0045
Mercury	21306-04-12 03:36 G	9503017.50	9503017.65	9503017.81	0.0089	0.0036
Earth	21306-06-20 04:19 G	9503086.48	9503086.68	9503086.91	0.0089	0.0050
Moon	21306-06-20 06:57 G	9503086.59	9503086.79	9503087.02	0.0089	0.0046 *
Mercury	21306-07-09 06:00 G	9503105.60	9503105.75	9503105.92	0.0089	0.0027
Mercury	21306-10-05 08:38 G	9503193.70	9503193.86	9503194.03	0.0089	0.0018
Mercury	21307-01-01 11:02 G	9503281.80	9503281.96	9503282.13	0.0089	0.0010
Mercury	21307-03-30 13:40 G	9503369.90	9503370.07	9503370.23	0.0089	0.0002
Moon	21307-06-22 13:55 G	9503453.89	9503454.08	9503454.30	0.0089	0.0054
Earth	21307-06-22 17:16 G	9503454.03	9503454.22	9503454.46	0.0089	0.0050 *
Mercury	21307-06-26 16:04 G	9503458.00	9503458.17	9503458.33	0.0089	0.0007
Mercury	21307-09-22 18:14 G	9503546.11	9503546.26	9503546.43	0.0089	0.0016
Mercury	21307-12-19 20:52 G	9503634.21	9503634.37	9503634.53	0.0089	0.0024

Mercury	21308-03-16 23:16 G	9503722.32	9503722.47	9503722.62	0.0089	0.0033
Mercury	21308-06-13 01:26 G	9503810.42	9503810.56	9503810.71	0.0089	0.0041
Earth	21308-06-24 06:28 G	9503821.57	9503821.77	9503821.99	0.0089	0.0051
Moon	21308-06-24 09:36 G	9503821.70	9503821.90	9503822.14	0.0089	0.0048 *
Mercury	21308-09-09 03:50 G	9503898.53	9503898.66	9503898.80	0.0089	0.0049
Mercury	21308-12-06 06:14 G	9503986.64	9503986.76	9503986.89	0.0089	0.0058
Mercury	21309-03-04 08:24 G	9504074.76	9504074.85	9504074.97	0.0089	0.0066
Mercury	21309-05-31 10:48 G	9504162.87	9504162.95	9504163.05	0.0089	0.0074
Moon	21309-06-26 15:21 G	9504188.97	9504189.14	9504189.37	0.0089	0.0056
Earth	21309-06-26 19:12 G	9504189.11	9504189.30	9504189.53	0.0089	0.0051 *
Mercury	21309-08-27 13:12 G	9504251.00	9504251.05	9504251.12	0.0089	0.0082
Earth	21310-06-29 08:38 G	9504556.65	9504556.86	9504557.07	0.0089	0.0052
Moon	21310-06-29 10:48 G	9504556.76	9504556.95	9504557.20	0.0089	0.0049 *
Moon	21311-07-01 19:26 G	9504924.13	9504924.31	9504924.52	0.0089	0.0056
Earth	21311-07-01 21:21 G	9504924.21	9504924.39	9504924.63	0.0089	0.0053 *
Earth	21312-07-03 10:48 G	9505291.75	9505291.95	9505292.17	0.0089	0.0053
Moon	21312-07-03 11:45 G	9505291.79	9505291.99	9505292.23	0.0089	0.0050 *
Earth	21313-07-06 00:14 G	9505659.30	9505659.51	9505659.72	0.0089	0.0053
Moon	21313-07-06 00:14 G	9505659.34	9505659.51	9505659.73	0.0089	0.0057 *
Moon	21314-07-08 11:31 G	9506026.78	9506026.98	9506027.22	0.0089	0.0051
Earth	21314-07-08 12:43 G	9506026.85	9506027.03	9506027.26	0.0089	0.0054 *
Earth	21315-07-11 01:55 G	9506394.40	9506394.58	9506394.81	0.0089	0.0054
Moon	21315-07-11 04:19 G	9506394.51	9506394.68	9506394.90	0.0089	0.0057 *
Moon	21316-07-12 12:00 G	9506761.79	9506762.00	9506762.23	0.0089	0.0050
Earth	21316-07-12 15:07 G	9506761.95	9506762.13	9506762.36	0.0089	0.0054 *
Earth	21317-07-15 04:04 G	9507129.48	9507129.67	9507129.90	0.0089	0.0053
Moon	21317-07-15 07:26 G	9507129.63	9507129.81	9507130.03	0.0089	0.0056 *
Moon	21318-07-17 13:40 G	9507496.87	9507497.07	9507497.30	0.0089	0.0051
Earth	21318-07-17 17:16 G	9507497.03	9507497.22	9507497.45	0.0089	0.0053 *
Earth	21319-07-20 06:43 G	9507864.58	9507864.78	9507864.99	0.0089	0.0053

Moon	21319-07-20 09:21 G	9507864.71	9507864.89	9507865.12	0.0089	0.0056	*
Moon	21320-07-21 17:31 G	9508232.02	9508232.23	9508232.44	0.0089	0.0051	
Earth	21320-07-21 19:40 G	9508232.13	9508232.32	9508232.54	0.0089	0.0053	*
Earth	21321-07-24 08:38 G	9508599.67	9508599.86	9508600.09	0.0089	0.0053	
Moon	21321-07-24 10:33 G	9508599.73	9508599.94	9508600.16	0.0089	0.0054	*
Earth	21322-07-26 22:04 G	9508967.22	9508967.42	9508967.65	0.0089	0.0052	
Moon	21322-07-26 22:19 G	9508967.23	9508967.43	9508967.65	0.0089	0.0050	*
Moon	21323-07-29 10:33 G	9509334.74	9509334.94	9509335.17	0.0089	0.0053	
Earth	21323-07-29 11:16 G	9509334.78	9509334.97	9509335.20	0.0089	0.0052	*
Earth	21324-07-31 00:43 G	9509702.33	9509702.53	9509702.76	0.0090	0.0051	
Moon	21324-07-31 02:38 G	9509702.42	9509702.61	9509702.84	0.0090	0.0050	*
Moon	21325-08-02 10:48 G	9510069.75	9510069.95	9510070.18	0.0090	0.0052	
Earth	21325-08-02 13:55 G	9510069.88	9510070.08	9510070.31	0.0090	0.0050	*
Earth	21326-08-05 03:21 G	9510437.43	9510437.64	9510437.86	0.0090	0.0049	
Moon	21326-08-05 06:14 G	9510437.57	9510437.76	9510438.00	0.0090	0.0049	*
Moon	21327-08-07 12:28 G	9510804.83	9510805.02	9510805.26	0.0090	0.0050	
Earth	21327-08-07 16:19 G	9510804.98	9510805.18	9510805.42	0.0090	0.0049	*
Earth	21328-08-09 05:02 G	9511172.52	9511172.71	9511172.96	0.0090	0.0048	
Moon	21328-08-09 08:24 G	9511172.65	9511172.85	9511173.09	0.0090	0.0047	*
Moon	21329-08-11 15:36 G	9511539.95	9511540.15	9511540.38	0.0090	0.0047	
Earth	21329-08-11 18:14 G	9511540.06	9511540.26	9511540.51	0.0090	0.0047	*
Earth	21330-08-14 07:40 G	9511907.60	9511907.82	9511908.05	0.0090	0.0045	
Moon	21330-08-14 09:21 G	9511907.67	9511907.89	9511908.13	0.0090	0.0045	*
Moon	21331-08-16 20:09 G	9512275.14	9512275.34	9512275.57	0.0090	0.0045	
Earth	21331-08-16 20:38 G	9512275.15	9512275.36	9512275.60	0.0090	0.0044	*
Moon	21332-08-18 09:21 G	9512642.66	9512642.89	9512643.13	0.0090	0.0043	
Earth	21332-08-18 09:36 G	9512642.69	9512642.90	9512643.14	0.0090	0.0043	*
Earth	21333-08-20 22:19 G	9513010.22	9513010.43	9513010.68	0.0090	0.0042	
Moon	21333-08-21 00:14 G	9513010.31	9513010.51	9513010.75	0.0090	0.0042	*
Moon	21334-08-23 08:38 G	9513377.64	9513377.86	9513378.11	0.0090	0.0040	

Earth	21334-08-23 11:45 G	9513377.77	9513377.99	9513378.23	0.0090	0.0040	*
Earth	21335-08-26 00:28 G	9513745.31	9513745.52	9513745.77	0.0090	0.0039	
Moon	21335-08-26 03:36 G	9513745.44	9513745.65	9513745.90	0.0090	0.0038	*
Moon	21336-08-27 09:50 G	9514112.69	9514112.91	9514113.16	0.0090	0.0038	
Earth	21336-08-27 13:55 G	9514112.85	9514113.08	9514113.32	0.0090	0.0037	*
Earth	21337-08-30 02:38 G	9514480.39	9514480.61	9514480.86	0.0090	0.0036	
Moon	21337-08-30 06:00 G	9514480.52	9514480.75	9514481.00	0.0090	0.0035	*
Moon	21338-09-01 12:43 G	9514847.81	9514848.03	9514848.27	0.0090	0.0036	
Earth	21338-09-01 15:50 G	9514847.93	9514848.16	9514848.41	0.0090	0.0034	*
Earth	21339-09-04 04:19 G	9515215.46	9515215.68	9515215.94	0.0090	0.0033	
Moon	21339-09-04 06:28 G	9515215.53	9515215.77	9515216.03	0.0090	0.0031	*
Moon	21340-09-05 16:33 G	9515582.97	9515583.19	9515583.43	0.0090	0.0032	
Earth	21340-09-05 17:16 G	9515582.99	9515583.22	9515583.47	0.0090	0.0031	*
Moon	21341-09-08 05:45 G	9515950.50	9515950.74	9515951.01	0.0089	0.0027	
Earth	21341-09-08 06:00 G	9515950.51	9515950.75	9515951.00	0.0089	0.0029	*
Earth	21342-09-10 18:43 G	9516318.04	9516318.28	9516318.53	0.0089	0.0027	
Moon	21342-09-10 20:09 G	9516318.12	9516318.34	9516318.59	0.0089	0.0029	*
Moon	21343-09-13 04:33 G	9516685.44	9516685.69	9516685.95	0.0089	0.0024	
Earth	21343-09-13 07:26 G	9516685.56	9516685.81	9516686.06	0.0089	0.0025	*
Earth	21344-09-14 19:55 G	9517053.08	9517053.33	9517053.58	0.0089	0.0023	
Moon	21344-09-14 22:48 G	9517053.21	9517053.45	9517053.70	0.0089	0.0026	*
Moon	21345-09-17 04:19 G	9517420.44	9517420.68	9517420.95	0.0089	0.0020	
Earth	21345-09-17 08:09 G	9517420.60	9517420.84	9517421.10	0.0089	0.0022	*
Earth	21346-09-19 20:38 G	9517788.12	9517788.36	9517788.63	0.0089	0.0020	
Moon	21346-09-20 00:14 G	9517788.26	9517788.51	9517788.77	0.0089	0.0022	*
Moon	21347-09-22 06:14 G	9518155.51	9518155.76	9518156.01	0.0089	0.0014	
Earth	21347-09-22 09:21 G	9518155.64	9518155.89	9518156.15	0.0089	0.0017	*
Earth	21348-09-23 21:50 G	9518523.16	9518523.41	9518523.67	0.0089	0.0015	
Moon	21348-09-24 00:14 G	9518523.25	9518523.51	9518523.77	0.0089	0.0018	*
Mars	21349-03-09 14:52 G	9518689.97	9518690.12	9518690.29	0.0089	0.0075	

Moon	21349-09-26 09:36 G	9518890.65	9518890.90	9518891.15	0.0089	0.0011
Earth	21349-09-26 10:19 G	9518890.69	9518890.93	9518891.20	0.0089	0.0014 *
Moon	21350-09-28 23:02 G	9519258.20	9519258.46	9519258.73	0.0089	0.0014
Earth	21350-09-28 22:48 G	9519258.21	9519258.45	9519258.72	0.0089	0.0012 *
Mars	21351-02-01 10:19 G	9519383.64	9519383.93	9519384.22	0.0089	0.0001
Earth	21351-10-01 11:16 G	9519625.72	9519625.97	9519626.23	0.0089	0.0009
Moon	21351-10-01 12:57 G	9519625.79	9519626.04	9519626.29	0.0089	0.0006 *
Moon	21352-10-02 21:07 G	9519993.12	9519993.38	9519993.64	0.0089	0.0009
Earth	21352-10-02 23:31 G	9519993.23	9519993.48	9519993.74	0.0089	0.0007 *
Mars	21352-12-26 05:16 G	9520077.59	9520077.72	9520077.91	0.0089	0.0076
Earth	21353-10-05 11:45 G	9520360.73	9520360.99	9520361.25	0.0089	0.0005
Moon	21353-10-05 14:38 G	9520360.86	9520361.11	9520361.37	0.0089	0.0002 *
Moon	21354-10-07 20:09 G	9520728.09	9520728.34	9520728.60	0.0089	0.0006
Earth	21354-10-08 00:00 G	9520728.24	9520728.50	9520728.76	0.0089	0.0003 *
Earth	21355-10-10 11:45 G	9521095.74	9521095.99	9521096.25	0.0089	0.0001
Moon	21355-10-10 15:07 G	9521095.88	9521096.13	9521096.39	0.0089	0.0003 *
Moon	21356-10-11 20:38 G	9521463.11	9521463.36	9521463.61	0.0089	0.0002
Earth	21356-10-11 23:45 G	9521463.24	9521463.49	9521463.75	0.0089	0.0002 *
Earth	21357-10-14 11:45 G	9521830.73	9521830.99	9521831.25	0.0089	0.0004
Moon	21357-10-14 13:55 G	9521830.82	9521831.08	9521831.34	0.0089	0.0007 *
Moon	21358-10-16 22:33 G	9522198.19	9522198.44	9522198.69	0.0089	0.0003
Earth	21358-10-16 23:31 G	9522198.23	9522198.48	9522198.74	0.0089	0.0006 *
Earth	21359-10-19 11:31 G	9522565.73	9522565.98	9522566.24	0.0089	0.0008
Moon	21359-10-19 11:31 G	9522565.73	9522565.98	9522566.26	0.0089	0.0012 *
Earth	21360-10-20 23:16 G	9522933.22	9522933.47	9522933.73	0.0089	0.0010
Moon	21360-10-21 00:57 G	9522933.29	9522933.54	9522933.79	0.0089	0.0006 *
Moon	21361-10-23 08:52 G	9523300.61	9523300.87	9523301.13	0.0089	0.0015
Earth	21361-10-23 11:16 G	9523300.72	9523300.97	9523301.23	0.0089	0.0012 *
Earth	21362-10-25 23:02 G	9523668.21	9523668.46	9523668.72	0.0089	0.0014
Moon	21362-10-26 01:55 G	9523668.34	9523668.58	9523668.84	0.0089	0.0010 *

Moon	21363-10-28 06:57 G	9524035.55	9524035.79	9524036.05	0.0089	0.0020
Earth	21363-10-28 10:48 G	9524035.70	9524035.95	9524036.21	0.0089	0.0016 *
Earth	21364-10-29 22:19 G	9524403.18	9524403.43	9524403.69	0.0089	0.0018
Moon	21364-10-30 01:40 G	9524403.32	9524403.57	9524403.83	0.0089	0.0014 *
Moon	21365-11-01 06:28 G	9524770.54	9524770.77	9524771.03	0.0089	0.0025
Earth	21365-11-01 09:50 G	9524770.67	9524770.91	9524771.17	0.0089	0.0020 *
Earth	21366-11-03 21:21 G	9525138.14	9525138.39	9525138.64	0.0089	0.0022
Moon	21366-11-03 23:16 G	9525138.22	9525138.47	9525138.74	0.0089	0.0018 *
Moon	21367-11-06 07:26 G	9525505.59	9525505.81	9525506.06	0.0089	0.0028
Earth	21367-11-06 08:38 G	9525505.62	9525505.86	9525506.11	0.0089	0.0024 *
Moon	21368-11-07 19:40 G	9525873.08	9525873.32	9525873.60	0.0089	0.0022
Earth	21368-11-07 19:40 G	9525873.09	9525873.32	9525873.58	0.0089	0.0026 *
Earth	21369-11-10 06:57 G	9526240.56	9526240.79	9526241.05	0.0089	0.0028
Moon	21369-11-10 08:38 G	9526240.64	9526240.86	9526241.10	0.0089	0.0032 *
Moon	21370-11-12 15:50 G	9526607.92	9526608.16	9526608.43	0.0089	0.0026
Earth	21370-11-12 18:14 G	9526608.03	9526608.26	9526608.52	0.0089	0.0030 *
Earth	21371-11-15 05:16 G	9526975.49	9526975.72	9526975.97	0.0089	0.0031
Moon	21371-11-15 08:24 G	9526975.63	9526975.85	9526976.09	0.0089	0.0036 *
Moon	21372-11-16 12:43 G	9527342.80	9527343.03	9527343.29	0.0089	0.0029
Earth	21372-11-16 16:33 G	9527342.96	9527343.19	9527343.44	0.0089	0.0033 *
Earth	21373-11-19 03:21 G	9527710.43	9527710.64	9527710.90	0.0089	0.0035
Moon	21373-11-19 06:57 G	9527710.57	9527710.79	9527711.04	0.0089	0.0039 *
Moon	21374-11-21 11:31 G	9528077.76	9528077.98	9528078.23	0.0089	0.0032
Earth	21374-11-21 14:52 G	9528077.89	9528078.12	9528078.36	0.0089	0.0036 *
Earth	21375-11-24 01:40 G	9528445.36	9528445.57	9528445.82	0.0089	0.0038
Moon	21375-11-24 03:50 G	9528445.43	9528445.66	9528445.90	0.0089	0.0042 *
Venus	21376-08-11 10:33 G	9528706.93	9528706.94	9528706.99	0.0088	0.0088
Moon	21376-11-25 12:14 G	9528812.78	9528813.01	9528813.23	0.0088	0.0035
Earth	21376-11-25 12:57 G	9528812.82	9528813.04	9528813.28	0.0088	0.0039 *
Venus	21377-03-25 00:00 G	9528932.36	9528932.50	9528932.63	0.0088	0.0068

Venus	21377-11-05 12:28 G	9529157.85	9529158.02	9529158.21	0.0088	0.0048
Earth	21377-11-27 23:31 G	9529180.27	9529180.48	9529180.73	0.0088	0.0041
Moon	21377-11-27 23:31 G	9529180.27	9529180.48	9529180.72	0.0088	0.0045 *
Venus	21378-06-19 01:26 G	9529383.36	9529383.56	9529383.77	0.0088	0.0029
Earth	21378-11-30 10:33 G	9529547.73	9529547.94	9529548.18	0.0088	0.0042
Moon	21378-11-30 12:14 G	9529547.80	9529548.01	9529548.25	0.0088	0.0038 *
Venus	21379-01-30 14:09 G	9529608.88	9529609.09	9529609.32	0.0088	0.0010
Venus	21379-09-13 03:21 G	9529834.42	9529834.64	9529834.86	0.0088	0.0011
Moon	21379-12-02 18:28 G	9529915.07	9529915.27	9529915.51	0.0088	0.0048
Earth	21379-12-02 21:36 G	9529915.17	9529915.40	9529915.62	0.0088	0.0043 *
Venus	21380-04-25 15:50 G	9530059.96	9530060.16	9530060.38	0.0088	0.0030
Earth	21380-12-04 07:40 G	9530282.62	9530282.82	9530283.06	0.0088	0.0045
Moon	21380-12-04 11:02 G	9530282.75	9530282.96	9530283.20	0.0088	0.0040 *
Venus	21380-12-07 04:48 G	9530285.52	9530285.70	9530285.88	0.0088	0.0050
Venus	21381-07-20 17:02 G	9530511.10	9530511.21	9530511.37	0.0088	0.0070
Moon	21381-12-06 15:21 G	9530649.93	9530650.14	9530650.35	0.0088	0.0050
Earth	21381-12-06 18:28 G	9530650.07	9530650.27	9530650.51	0.0088	0.0046 *
Earth	21382-12-09 05:02 G	9531017.51	9531017.71	9531017.95	0.0088	0.0047
Moon	21382-12-09 08:24 G	9531017.64	9531017.85	9531018.09	0.0088	0.0042 *
Moon	21383-12-11 12:43 G	9531384.85	9531385.03	9531385.25	0.0088	0.0052
Earth	21383-12-11 15:50 G	9531384.96	9531385.16	9531385.39	0.0088	0.0047 *
Earth	21384-12-13 02:24 G	9531752.40	9531752.60	9531752.83	0.0088	0.0049
Moon	21384-12-13 04:19 G	9531752.45	9531752.68	9531752.91	0.0088	0.0044 *
Moon	21385-12-15 12:14 G	9532119.83	9532120.01	9532120.22	0.0088	0.0054
Earth	21385-12-15 12:57 G	9532119.84	9532120.04	9532120.27	0.0088	0.0049 *
Mercury	21386-02-01 00:00 G	9532167.46	9532167.50	9532167.57	0.0088	0.0082
Mercury	21386-04-30 02:09 G	9532255.51	9532255.59	9532255.67	0.0088	0.0074
Mercury	21386-07-27 03:50 G	9532343.57	9532343.66	9532343.76	0.0088	0.0067
Mercury	21386-10-23 05:31 G	9532431.63	9532431.73	9532431.85	0.0088	0.0060
Moon	21386-12-17 23:16 G	9532487.25	9532487.47	9532487.71	0.0088	0.0045



Earth	21386-12-17 23:31 G	9532487.29	9532487.48	9532487.71	0.0088	0.0051	*
Mercury	21387-01-19 07:40 G	9532519.70	9532519.82	9532519.93	0.0088	0.0053	
Mercury	21387-04-17 09:21 G	9532607.76	9532607.89	9532608.02	0.0088	0.0045	
Mercury	21387-07-14 11:02 G	9532695.83	9532695.96	9532696.10	0.0088	0.0038	
Mercury	21387-10-10 12:57 G	9532783.90	9532784.04	9532784.18	0.0088	0.0031	
Earth	21387-12-20 09:50 G	9532854.73	9532854.91	9532855.15	0.0088	0.0052	
Moon	21387-12-20 12:14 G	9532854.83	9532855.01	9532855.22	0.0088	0.0056	*
Mercury	21388-01-06 14:52 G	9532871.98	9532872.12	9532872.27	0.0088	0.0023	
Mercury	21388-04-03 16:48 G	9532960.05	9532960.20	9532960.35	0.0088	0.0016	
Mercury	21388-06-30 18:28 G	9533048.12	9533048.27	9533048.42	0.0088	0.0008	
Mercury	21388-09-26 20:24 G	9533136.20	9533136.35	9533136.50	0.0088	0.0002	
Moon	21388-12-21 18:00 G	9533222.05	9533222.25	9533222.49	0.0088	0.0047	
Earth	21388-12-21 21:07 G	9533222.18	9533222.38	9533222.59	0.0088	0.0051	*
Mercury	21388-12-23 22:19 G	9533224.28	9533224.43	9533224.58	0.0088	0.0007	
Mercury	21389-03-22 00:14 G	9533312.36	9533312.51	9533312.66	0.0088	0.0015	
Mercury	21389-06-18 01:55 G	9533400.44	9533400.58	9533400.73	0.0088	0.0023	
Mercury	21389-09-14 03:50 G	9533488.52	9533488.66	9533488.81	0.0088	0.0030	
Mercury	21389-12-11 05:45 G	9533576.61	9533576.74	9533576.88	0.0088	0.0038	
Earth	21389-12-24 07:12 G	9533589.62	9533589.80	9533590.03	0.0088	0.0052	
Moon	21389-12-24 10:33 G	9533589.77	9533589.94	9533590.16	0.0088	0.0057	*
Mercury	21390-03-09 07:40 G	9533664.70	9533664.82	9533664.96	0.0088	0.0045	
Mercury	21390-06-05 09:21 G	9533752.79	9533752.89	9533753.03	0.0088	0.0054	
Mercury	21390-09-01 11:31 G	9533840.88	9533840.98	9533841.10	0.0088	0.0061	
Mercury	21390-11-28 13:26 G	9533928.97	9533929.06	9533929.16	0.0088	0.0068	
Moon	21390-12-26 14:09 G	9533956.90	9533957.09	9533957.32	0.0088	0.0048	
Earth	21390-12-26 18:14 G	9533957.05	9533957.26	9533957.46	0.0088	0.0053	*
Mercury	21391-02-24 15:21 G	9534017.07	9534017.14	9534017.23	0.0088	0.0076	
Mercury	21391-05-23 17:02 G	9534105.19	9534105.21	9534105.28	0.0088	0.0085	
Earth	21391-12-29 04:04 G	9534324.48	9534324.67	9534324.89	0.0088	0.0053	
Moon	21391-12-29 07:26 G	9534324.63	9534324.81	9534325.02	0.0088	0.0057	*

Moon	21392-12-30 11:45 G	9534691.80	9534691.99	9534692.22	0.0088	0.0049
Earth	21392-12-30 14:52 G	9534691.92	9534692.12	9534692.33	0.0088	0.0053 *
Earth	21394-01-02 00:28 G	9535059.35	9535059.52	9535059.75	0.0088	0.0054
Moon	21394-01-02 01:55 G	9535059.40	9535059.58	9535059.80	0.0088	0.0058 *
Moon	21395-01-04 10:48 G	9535426.76	9535426.95	9535427.17	0.0088	0.0050
Earth	21395-01-04 11:02 G	9535426.78	9535426.96	9535427.18	0.0088	0.0054 *
Moon	21396-01-06 20:38 G	9535794.17	9535794.36	9535794.56	0.0088	0.0058
Earth	21396-01-06 21:21 G	9535794.21	9535794.39	9535794.61	0.0088	0.0054 *
Earth	21397-01-08 07:40 G	9536161.64	9536161.82	9536162.04	0.0088	0.0054
Moon	21397-01-08 10:04 G	9536161.73	9536161.92	9536162.14	0.0088	0.0050 *
Moon	21398-01-10 15:21 G	9536528.95	9536529.14	9536529.34	0.0088	0.0058
Earth	21398-01-10 18:00 G	9536529.07	9536529.25	9536529.47	0.0088	0.0054 *
Earth	21399-01-13 04:19 G	9536896.49	9536896.68	9536896.90	0.0088	0.0054
Moon	21399-01-13 08:09 G	9536896.64	9536896.84	9536897.06	0.0088	0.0049 *
Moon	21400-01-15 11:45 G	9537263.80	9537263.99	9537264.18	0.0088	0.0058
Earth	21400-01-15 14:38 G	9537263.93	9537264.11	9537264.34	0.0088	0.0054 *
Earth	21401-01-18 00:57 G	9537631.36	9537631.54	9537631.77	0.0088	0.0054
Moon	21401-01-18 04:04 G	9537631.48	9537631.67	9537631.91	0.0088	0.0050 *
Moon	21402-01-20 09:07 G	9537998.71	9537998.88	9537999.09	0.0088	0.0058
Earth	21402-01-20 11:45 G	9537998.79	9537998.99	9537999.20	0.0088	0.0053 *
Earth	21403-01-22 21:50 G	9538366.22	9538366.41	9538366.63	0.0088	0.0053
Moon	21403-01-22 22:19 G	9538366.24	9538366.43	9538366.68	0.0088	0.0049 *
Earth	21404-01-25 08:24 G	9538733.65	9538733.85	9538734.06	0.0088	0.0052
Moon	21404-01-25 08:24 G	9538733.67	9538733.85	9538734.04	0.0088	0.0056 *
Moon	21405-01-26 17:02 G	9539101.00	9539101.21	9539101.44	0.0088	0.0047
Earth	21405-01-26 18:14 G	9539101.07	9539101.26	9539101.49	0.0088	0.0052 *
Earth	21406-01-29 04:33 G	9539468.50	9539468.69	9539468.91	0.0088	0.0051
Moon	21406-01-29 07:12 G	9539468.62	9539468.80	9539469.01	0.0088	0.0056 *
Moon	21407-01-31 11:45 G	9539835.78	9539835.99	9539836.22	0.0088	0.0046
Earth	21407-01-31 15:07 G	9539835.92	9539836.13	9539836.34	0.0088	0.0050 *

Earth	21408-02-03 00:43 G	9540203.34	9540203.53	9540203.76	0.0088	0.0050
Moon	21408-02-03 04:33 G	9540203.51	9540203.69	9540203.91	0.0088	0.0054 *
Moon	21409-02-04 08:09 G	9540570.63	9540570.84	9540571.07	0.0088	0.0044
Earth	21409-02-04 11:02 G	9540570.77	9540570.96	9540571.20	0.0088	0.0049 *
Earth	21410-02-06 21:07 G	9540938.19	9540938.38	9540938.62	0.0088	0.0048
Moon	21410-02-07 00:00 G	9540938.31	9540938.50	9540938.74	0.0088	0.0052 *
Moon	21411-02-09 05:45 G	9541305.54	9541305.74	9541305.97	0.0088	0.0043
Earth	21411-02-09 07:40 G	9541305.62	9541305.82	9541306.05	0.0088	0.0047 *
Earth	21412-02-11 18:00 G	9541673.05	9541673.25	9541673.49	0.0088	0.0046
Moon	21412-02-11 18:14 G	9541673.06	9541673.26	9541673.50	0.0088	0.0050 *
Earth	21413-02-13 04:19 G	9542040.48	9542040.68	9542040.92	0.0088	0.0045
Moon	21413-02-13 05:02 G	9542040.50	9542040.71	9542040.94	0.0088	0.0041 *
Moon	21414-02-15 12:57 G	9542407.84	9542408.04	9542408.28	0.0088	0.0048
Earth	21414-02-15 15:21 G	9542407.91	9542408.14	9542408.36	0.0088	0.0043 *
Earth	21415-02-18 01:26 G	9542775.34	9542775.56	9542775.79	0.0088	0.0042
Moon	21415-02-18 04:19 G	9542775.46	9542775.68	9542775.92	0.0088	0.0038 *
Moon	21416-02-20 08:24 G	9543142.64	9543142.85	9543143.09	0.0088	0.0045
Earth	21416-02-20 11:45 G	9543142.78	9543142.99	9543143.23	0.0088	0.0041 *
Earth	21417-02-21 22:04 G	9543510.21	9543510.42	9543510.67	0.0088	0.0040
Moon	21417-02-22 02:09 G	9543510.36	9543510.59	9543510.83	0.0088	0.0035 *
Moon	21418-02-24 05:45 G	9543877.52	9543877.74	9543877.96	0.0088	0.0042
Earth	21418-02-24 08:38 G	9543877.64	9543877.86	9543878.10	0.0088	0.0038 *
Earth	21419-02-26 18:43 G	9544245.07	9544245.28	9544245.53	0.0088	0.0037
Moon	21419-02-26 21:36 G	9544245.17	9544245.40	9544245.66	0.0088	0.0033 *
Moon	21420-02-29 03:50 G	9544612.45	9544612.66	9544612.90	0.0088	0.0039
Earth	21420-02-29 05:31 G	9544612.50	9544612.73	9544612.98	0.0088	0.0035 *
Moon	21421-03-02 15:36 G	9544979.92	9544980.15	9544980.42	0.0088	0.0030
Earth	21421-03-02 15:36 G	9544979.94	9544980.15	9544980.41	0.0088	0.0034 *
Earth	21422-03-05 02:24 G	9545347.37	9545347.60	9545347.85	0.0088	0.0032
Moon	21422-03-05 03:21 G	9545347.42	9545347.64	9545347.88	0.0088	0.0035 *

Moon	21423-03-07 10:48 G	9545714.70	9545714.95	9545715.21	0.0088	0.0026
Earth	21423-03-07 12:57 G	9545714.81	9545715.04	9545715.29	0.0088	0.0030 *
Earth	21424-03-08 23:45 G	9546082.25	9546082.49	9546082.74	0.0088	0.0028
Moon	21424-03-09 03:07 G	9546082.39	9546082.63	9546082.87	0.0088	0.0032 *
Moon	21425-03-11 07:12 G	9546449.56	9546449.80	9546450.06	0.0088	0.0023
Earth	21425-03-11 10:19 G	9546449.70	9546449.93	9546450.19	0.0088	0.0027 *
Earth	21426-03-13 21:07 G	9546817.14	9546817.38	9546817.64	0.0088	0.0025
Moon	21426-03-14 01:12 G	9546817.30	9546817.55	9546817.79	0.0088	0.0028 *
Moon	21427-03-16 05:16 G	9547184.48	9547184.72	9547184.98	0.0088	0.0019
Earth	21427-03-16 08:09 G	9547184.60	9547184.84	9547185.10	0.0088	0.0023 *
Earth	21428-03-17 18:57 G	9547552.05	9547552.29	9547552.55	0.0088	0.0021
Moon	21428-03-17 21:21 G	9547552.15	9547552.39	9547552.66	0.0088	0.0024 *
Moon	21429-03-20 04:33 G	9547919.46	9547919.69	9547919.95	0.0088	0.0016
Earth	21429-03-20 06:00 G	9547919.50	9547919.75	9547920.01	0.0088	0.0019 *
Moon	21430-03-22 16:33 G	9548286.93	9548287.19	9548287.45	0.0088	0.0020
Earth	21430-03-22 16:48 G	9548286.95	9548287.20	9548287.46	0.0088	0.0017 *
Earth	21431-03-25 03:36 G	9548654.41	9548654.65	9548654.91	0.0088	0.0015
Moon	21431-03-25 04:48 G	9548654.46	9548654.70	9548654.95	0.0088	0.0012 *
Moon	21432-03-26 12:14 G	9549021.75	9549022.01	9549022.27	0.0088	0.0016
Earth	21432-03-26 14:38 G	9549021.86	9549022.11	9549022.38	0.0088	0.0013 *
Mars	21432-12-23 22:48 G	9549294.19	9549294.45	9549294.77	0.0088	0.0045
Earth	21433-03-29 01:40 G	9549389.32	9549389.57	9549389.83	0.0088	0.0011
Moon	21433-03-29 05:02 G	9549389.46	9549389.71	9549389.97	0.0088	0.0007 *
Moon	21434-03-31 09:07 G	9549756.63	9549756.88	9549757.15	0.0088	0.0012
Earth	21434-03-31 12:43 G	9549756.78	9549757.03	9549757.29	0.0088	0.0009 *
Mars	21434-11-19 23:45 G	9549990.19	9549990.49	9549990.79	0.0088	0.0040
Earth	21435-04-02 23:45 G	9550124.24	9550124.49	9550124.75	0.0088	0.0007
Moon	21435-04-03 03:21 G	9550124.39	9550124.64	9550124.91	0.0088	0.0004 *
Moon	21436-04-04 08:24 G	9550491.60	9550491.85	9550492.10	0.0088	0.0008
Earth	21436-04-04 11:02 G	9550491.71	9550491.96	9550492.22	0.0088	0.0005 *

Earth	21437-04-06 22:19 G	9550859.17	9550859.43	9550859.69	0.0088	0.0003
Moon	21437-04-07 00:43 G	9550859.26	9550859.53	9550859.79	0.0088	0.0001 *
Moon	21438-04-09 08:38 G	9551226.61	9551226.86	9551227.11	0.0088	0.0003
Earth	21438-04-09 09:36 G	9551226.65	9551226.90	9551227.16	0.0088	0.0001 *
Moon	21439-04-11 20:24 G	9551594.09	9551594.35	9551594.62	0.0088	0.0005
Earth	21439-04-11 21:07 G	9551594.12	9551594.38	9551594.64	0.0088	0.0002 *
Earth	21440-04-13 08:38 G	9551961.60	9551961.86	9551962.12	0.0088	0.0004
Moon	21440-04-13 09:50 G	9551961.66	9551961.91	9551962.16	0.0088	0.0002 *
Moon	21441-04-15 17:16 G	9552328.96	9552329.22	9552329.49	0.0088	0.0009
Earth	21441-04-15 20:09 G	9552329.08	9552329.34	9552329.60	0.0088	0.0006 *
Earth	21442-04-18 07:26 G	9552696.55	9552696.81	9552697.07	0.0088	0.0008
Moon	21442-04-18 10:48 G	9552696.70	9552696.95	9552697.20	0.0088	0.0005 *
Moon	21443-04-20 15:36 G	9553063.89	9553064.15	9553064.41	0.0088	0.0013
Earth	21443-04-20 18:57 G	9553064.04	9553064.29	9553064.55	0.0088	0.0011 *
Earth	21444-04-22 06:28 G	9553431.52	9553431.77	9553432.03	0.0088	0.0013
Moon	21444-04-22 10:04 G	9553431.67	9553431.92	9553432.19	0.0088	0.0011 *
Moon	21445-04-24 15:21 G	9553798.90	9553799.14	9553799.39	0.0088	0.0017
Earth	21445-04-24 18:00 G	9553799.00	9553799.25	9553799.51	0.0088	0.0015 *
Earth	21446-04-27 05:45 G	9554166.48	9554166.74	9554166.99	0.0088	0.0017
Moon	21446-04-27 07:55 G	9554166.57	9554166.83	9554167.10	0.0088	0.0015 *
Moon	21447-04-29 16:33 G	9554533.95	9554534.19	9554534.44	0.0088	0.0021
Earth	21447-04-29 17:16 G	9554533.97	9554534.22	9554534.48	0.0088	0.0019 *
Moon	21448-05-01 04:19 G	9554901.43	9554901.68	9554901.95	0.0088	0.0019
Earth	21448-05-01 05:16 G	9554901.47	9554901.72	9554901.97	0.0088	0.0021 *
Earth	21449-05-03 17:02 G	9555268.96	9555269.21	9555269.46	0.0088	0.0023
Moon	21449-05-03 18:00 G	9555269.02	9555269.25	9555269.50	0.0088	0.0025 *
Moon	21450-05-06 02:09 G	9555636.33	9555636.59	9555636.85	0.0089	0.0023
Earth	21450-05-06 04:48 G	9555636.46	9555636.70	9555636.95	0.0089	0.0025 *
Earth	21451-05-08 16:48 G	9556003.96	9556004.20	9556004.46	0.0089	0.0027
Moon	21451-05-08 20:09 G	9556004.10	9556004.34	9556004.59	0.0089	0.0029 *

Moon	21452-05-10 01:26 G	9556371.32	9556371.56	9556371.82	0.0089	0.0028
Earth	21452-05-10 05:02 G	9556371.47	9556371.71	9556371.96	0.0089	0.0029 *
Earth	21453-05-12 16:48 G	9556738.97	9556739.20	9556739.46	0.0089	0.0031
Moon	21453-05-12 20:38 G	9556739.13	9556739.36	9556739.61	0.0089	0.0032 *
Moon	21454-05-15 02:52 G	9557106.38	9557106.62	9557106.85	0.0089	0.0031
Earth	21454-05-15 05:02 G	9557106.49	9557106.71	9557106.97	0.0089	0.0033 *
Earth	21455-05-17 17:16 G	9557474.00	9557474.22	9557474.48	0.0089	0.0035
Moon	21455-05-17 19:40 G	9557474.09	9557474.32	9557474.58	0.0089	0.0035 *
Moon	21456-05-19 05:02 G	9557841.48	9557841.71	9557841.94	0.0089	0.0035
Earth	21456-05-19 05:45 G	9557841.51	9557841.74	9557841.98	0.0089	0.0036 *
Moon	21457-05-21 17:16 G	9558208.99	9558209.22	9558209.48	0.0089	0.0039
Earth	21457-05-21 17:45 G	9558209.02	9558209.24	9558209.49	0.0089	0.0038 *
Earth	21458-05-24 05:45 G	9558576.53	9558576.74	9558577.00	0.0089	0.0040
Moon	21458-05-24 06:57 G	9558576.59	9558576.79	9558577.04	0.0089	0.0040 *
Moon	21459-05-26 15:36 G	9558943.94	9558944.15	9558944.40	0.0089	0.0042
Earth	21459-05-26 18:28 G	9558944.05	9558944.27	9558944.51	0.0089	0.0041 *
Venus	21459-12-22 21:36 G	9559154.35	9559154.40	9559154.48	0.0089	0.0085
Earth	21460-05-28 06:43 G	9559311.57	9559311.78	9559312.03	0.0089	0.0043
Moon	21460-05-28 10:04 G	9559311.71	9559311.92	9559312.16	0.0089	0.0042 *
Venus	21460-08-04 10:48 G	9559379.81	9559379.95	9559380.11	0.0089	0.0065
Venus	21461-03-18 00:14 G	9559605.32	9559605.51	9559605.70	0.0089	0.0045
Moon	21461-05-30 15:36 G	9559678.94	9559679.15	9559679.40	0.0089	0.0044
Earth	21461-05-30 19:12 G	9559679.09	9559679.30	9559679.54	0.0089	0.0044 *
Venus	21461-10-29 13:26 G	9559830.85	9559831.06	9559831.27	0.0089	0.0025
Earth	21462-06-02 08:09 G	9560046.62	9560046.84	9560047.06	0.0089	0.0045
Moon	21462-06-02 11:16 G	9560046.77	9560046.97	9560047.22	0.0089	0.0046 *
Venus	21462-06-12 02:24 G	9560056.39	9560056.60	9560056.83	0.0089	0.0006
Venus	21463-01-23 15:36 G	9560281.94	9560282.15	9560282.37	0.0089	0.0015
Moon	21463-06-04 17:31 G	9560414.04	9560414.23	9560414.47	0.0089	0.0047
Earth	21463-06-04 20:24 G	9560414.15	9560414.35	9560414.59	0.0089	0.0047 *

Venus	21463-09-06 04:33 G	9560507.50	9560507.69	9560507.91	0.0089	0.0035
Venus	21464-04-18 17:45 G	9560733.08	9560733.24	9560733.43	0.0089	0.0055
Earth	21464-06-06 09:07 G	9560781.68	9560781.88	9560782.12	0.0089	0.0048
Moon	21464-06-06 11:45 G	9560781.78	9560781.99	9560782.23	0.0089	0.0049 *
Venus	21464-11-30 06:57 G	9560958.69	9560958.79	9560958.92	0.0089	0.0075
Moon	21465-06-08 20:52 G	9561149.18	9561149.37	9561149.60	0.0089	0.0049
Earth	21465-06-08 22:04 G	9561149.22	9561149.42	9561149.65	0.0089	0.0049 *
Moon	21466-06-11 10:33 G	9561516.74	9561516.94	9561517.18	0.0089	0.0051
Earth	21466-06-11 11:02 G	9561516.76	9561516.96	9561517.18	0.0089	0.0050 *
Earth	21467-06-14 00:00 G	9561884.29	9561884.50	9561884.71	0.0089	0.0052
Moon	21467-06-14 00:43 G	9561884.34	9561884.53	9561884.75	0.0089	0.0050 *
Moon	21468-06-15 09:50 G	9562251.72	9562251.91	9562252.14	0.0089	0.0054
Earth	21468-06-15 12:43 G	9562251.83	9562252.03	9562252.25	0.0089	0.0053 *
Earth	21469-06-18 01:26 G	9562619.36	9562619.56	9562619.77	0.0089	0.0053
Moon	21469-06-18 04:33 G	9562619.49	9562619.69	9562619.90	0.0089	0.0052 *
Mercury	21469-07-28 11:45 G	9562659.95	9562659.99	9562660.06	0.0089	0.0083
Mercury	21469-10-24 14:24 G	9562748.02	9562748.10	9562748.20	0.0089	0.0074
Mercury	21470-01-20 17:02 G	9562836.11	9562836.21	9562836.33	0.0089	0.0066
Mercury	21470-04-18 19:26 G	9562924.20	9562924.31	9562924.45	0.0089	0.0057
Moon	21470-06-20 10:33 G	9562986.76	9562986.94	9562987.16	0.0089	0.0056
Earth	21470-06-20 14:09 G	9562986.90	9562987.09	9562987.31	0.0089	0.0055 *
Mercury	21470-07-15 22:04 G	9563012.29	9563012.42	9563012.57	0.0089	0.0048
Mercury	21470-10-12 00:43 G	9563100.38	9563100.53	9563100.68	0.0089	0.0039
Mercury	21471-01-08 03:07 G	9563188.48	9563188.63	9563188.79	0.0089	0.0031
Mercury	21471-04-06 05:45 G	9563276.58	9563276.74	9563276.90	0.0089	0.0022
Earth	21471-06-23 02:52 G	9563354.44	9563354.62	9563354.84	0.0089	0.0055
Moon	21471-06-23 06:43 G	9563354.59	9563354.78	9563355.00	0.0089	0.0054 *
Mercury	21471-07-03 08:09 G	9563364.68	9563364.84	9563365.01	0.0089	0.0014
Mercury	21471-09-29 10:33 G	9563452.78	9563452.94	9563453.11	0.0089	0.0006
Mercury	21471-12-26 13:12 G	9563540.88	9563541.05	9563541.21	0.0089	0.0004

Mercury	21472-03-23 15:36 G	9563628.99	9563629.15	9563629.31	0.0089	0.0012
Mercury	21472-06-19 18:00 G	9563717.09	9563717.25	9563717.41	0.0089	0.0021
Moon	21472-06-24 12:57 G	9563721.86	9563722.04	9563722.24	0.0089	0.0058
Earth	21472-06-24 16:04 G	9563721.97	9563722.17	9563722.38	0.0089	0.0056 *
Mercury	21472-09-15 20:09 G	9563805.19	9563805.34	9563805.51	0.0089	0.0029
Mercury	21472-12-12 22:33 G	9563893.30	9563893.44	9563893.60	0.0089	0.0038
Mercury	21473-03-11 01:12 G	9563981.41	9563981.55	9563981.69	0.0089	0.0046
Mercury	21473-06-07 03:21 G	9564069.52	9564069.64	9564069.78	0.0089	0.0054
Earth	21473-06-27 04:33 G	9564089.51	9564089.69	9564089.91	0.0089	0.0057
Moon	21473-06-27 07:40 G	9564089.62	9564089.82	9564090.04	0.0089	0.0054 *
Mercury	21473-09-03 05:45 G	9564157.63	9564157.74	9564157.86	0.0089	0.0062
Mercury	21473-11-30 08:09 G	9564245.75	9564245.84	9564245.94	0.0089	0.0071
Mercury	21474-02-26 10:04 G	9564333.87	9564333.92	9564334.02	0.0089	0.0080
Mercury	21474-05-25 12:28 G	9564422.01	9564422.02	9564422.07	0.0089	0.0088
Moon	21474-06-29 16:19 G	9564457.02	9564457.18	9564457.39	0.0089	0.0060
Earth	21474-06-29 18:00 G	9564457.06	9564457.25	9564457.46	0.0089	0.0057 *
Earth	21475-07-02 06:43 G	9564824.60	9564824.78	9564825.00	0.0089	0.0058
Moon	21475-07-02 06:43 G	9564824.60	9564824.78	9564825.02	0.0089	0.0056 *
Earth	21476-07-03 19:55 G	9565192.15	9565192.33	9565192.55	0.0089	0.0058
Moon	21476-07-03 20:38 G	9565192.19	9565192.36	9565192.56	0.0089	0.0061 *
Moon	21477-07-06 06:43 G	9565559.59	9565559.78	9565560.00	0.0089	0.0056
Earth	21477-07-06 09:21 G	9565559.70	9565559.89	9565560.09	0.0089	0.0058 *
Earth	21478-07-08 22:33 G	9565927.25	9565927.44	9565927.64	0.0089	0.0058
Moon	21478-07-09 01:12 G	9565927.38	9565927.55	9565927.75	0.0089	0.0061 *
Moon	21479-07-11 08:09 G	9566294.65	9566294.84	9566295.06	0.0089	0.0055
Earth	21479-07-11 12:00 G	9566294.80	9566295.00	9566295.20	0.0089	0.0058 *
Earth	21480-07-13 00:43 G	9566662.34	9566662.53	9566662.73	0.0089	0.0058
Moon	21480-07-13 04:33 G	9566662.50	9566662.69	9566662.88	0.0089	0.0061 *
Moon	21481-07-15 10:33 G	9567029.75	9567029.94	9567030.15	0.0089	0.0055
Earth	21481-07-15 13:40 G	9567029.89	9567030.07	9567030.28	0.0089	0.0058 *



Earth	21482-07-18 02:38 G	9567397.43	9567397.61	9567397.83	0.0089	0.0058
Moon	21482-07-18 05:31 G	9567397.56	9567397.73	9567397.95	0.0089	0.0062 *
Moon	21483-07-20 14:38 G	9567764.91	9567765.11	9567765.31	0.0089	0.0054
Earth	21483-07-20 15:36 G	9567764.98	9567765.15	9567765.37	0.0089	0.0058 *
Earth	21484-07-22 04:48 G	9568132.52	9568132.70	9568132.92	0.0089	0.0057
Moon	21484-07-22 05:45 G	9568132.55	9568132.74	9568132.94	0.0089	0.0060 *
Earth	21485-07-24 17:45 G	9568500.06	9568500.24	9568500.46	0.0090	0.0057
Moon	21485-07-24 18:14 G	9568500.07	9568500.26	9568500.48	0.0090	0.0053 *
Moon	21486-07-27 05:16 G	9568867.52	9568867.72	9568867.92	0.0090	0.0059
Earth	21486-07-27 06:57 G	9568867.61	9568867.79	9568868.01	0.0090	0.0056 *
Earth	21487-07-29 20:24 G	9569235.15	9569235.35	9569235.56	0.0090	0.0055
Moon	21487-07-29 22:33 G	9569235.26	9569235.44	9569235.67	0.0090	0.0052 *
Moon	21488-07-31 05:45 G	9569602.57	9569602.74	9569602.96	0.0090	0.0059
Earth	21488-07-31 09:07 G	9569602.70	9569602.88	9569603.11	0.0090	0.0055 *
Earth	21489-08-02 22:19 G	9569970.25	9569970.43	9569970.66	0.0090	0.0054
Moon	21489-08-03 01:55 G	9569970.39	9569970.58	9569970.82	0.0090	0.0050 *
Moon	21490-08-05 08:38 G	9570337.68	9570337.86	9570338.07	0.0090	0.0057
Earth	21490-08-05 11:45 G	9570337.80	9570337.99	9570338.22	0.0090	0.0053 *
Earth	21491-08-08 00:57 G	9570705.35	9570705.54	9570705.77	0.0090	0.0052
Moon	21491-08-08 04:19 G	9570705.47	9570705.68	9570705.92	0.0090	0.0047 *
Moon	21492-08-09 12:28 G	9571072.84	9571073.02	9571073.23	0.0090	0.0055
Earth	21492-08-09 14:09 G	9571072.90	9571073.09	9571073.33	0.0090	0.0051 *
Earth	21493-08-12 03:07 G	9571440.44	9571440.63	9571440.87	0.0090	0.0050
Moon	21493-08-12 04:48 G	9571440.48	9571440.70	9571440.94	0.0090	0.0045 *
Earth	21494-08-14 16:33 G	9571807.99	9571808.19	9571808.42	0.0090	0.0048
Moon	21494-08-14 16:33 G	9571808.00	9571808.19	9571808.41	0.0090	0.0053 *
Moon	21495-08-17 03:50 G	9572175.44	9572175.66	9572175.91	0.0090	0.0043
Earth	21495-08-17 05:31 G	9572175.53	9572175.73	9572175.97	0.0090	0.0047 *
Earth	21496-08-18 18:43 G	9572543.06	9572543.28	9572543.51	0.0090	0.0045
Moon	21496-08-18 20:24 G	9572543.16	9572543.35	9572543.58	0.0090	0.0050 *

Moon	21497-08-21 04:19 G	9572910.46	9572910.68	9572910.93	0.0090	0.0039
Earth	21497-08-21 07:26 G	9572910.60	9572910.81	9572911.05	0.0090	0.0044 *
Earth	21498-08-23 20:38 G	9573278.14	9573278.36	9573278.59	0.0090	0.0042
Moon	21498-08-24 00:00 G	9573278.30	9573278.50	9573278.73	0.0090	0.0047 *
Moon	21499-08-26 06:14 G	9573645.53	9573645.76	9573646.00	0.0090	0.0036
Earth	21499-08-26 09:21 G	9573645.68	9573645.89	9573646.14	0.0090	0.0041 *
Earth	21500-08-28 22:33 G	9574013.21	9574013.44	9574013.68	0.0090	0.0039
Moon	21500-08-29 01:40 G	9574013.36	9574013.57	9574013.82	0.0090	0.0044 *
Moon	21501-08-31 09:36 G	9574380.67	9574380.90	9574381.14	0.0090	0.0033
Earth	21501-08-31 11:16 G	9574380.76	9574380.97	9574381.23	0.0090	0.0038 *
Earth	21502-09-03 00:28 G	9574748.30	9574748.52	9574748.77	0.0089	0.0036
Moon	21502-09-03 02:09 G	9574748.36	9574748.59	9574748.84	0.0089	0.0040 *
Moon	21503-09-05 13:40 G	9575115.83	9575116.07	9575116.30	0.0089	0.0029
Earth	21503-09-05 13:40 G	9575115.84	9575116.07	9575116.32	0.0089	0.0034 *
Moon	21504-09-07 01:12 G	9575483.31	9575483.55	9575483.80	0.0089	0.0036
Earth	21504-09-07 02:24 G	9575483.37	9575483.60	9575483.86	0.0089	0.0032 *
Earth	21505-09-09 15:21 G	9575850.91	9575851.14	9575851.39	0.0089	0.0030
Moon	21505-09-09 17:16 G	9575850.99	9575851.22	9575851.47	0.0089	0.0025 *
Moon	21506-09-12 00:57 G	9576218.31	9576218.54	9576218.80	0.0089	0.0033
Earth	21506-09-12 04:19 G	9576218.44	9576218.68	9576218.93	0.0089	0.0028 *
Earth	21507-09-14 16:48 G	9576585.96	9576586.20	9576586.45	0.0089	0.0026
Moon	21507-09-14 20:09 G	9576586.10	9576586.34	9576586.60	0.0089	0.0021 *
Moon	21508-09-16 01:55 G	9576953.35	9576953.58	9576953.84	0.0089	0.0028
Earth	21508-09-16 05:31 G	9576953.49	9576953.73	9576953.99	0.0089	0.0023 *
Earth	21509-09-18 18:00 G	9577321.01	9577321.25	9577321.51	0.0089	0.0022
Moon	21509-09-18 21:36 G	9577321.15	9577321.40	9577321.66	0.0089	0.0017 *
Moon	21510-09-21 04:19 G	9577688.45	9577688.68	9577688.93	0.0089	0.0023
Earth	21510-09-21 06:28 G	9577688.53	9577688.77	9577689.04	0.0089	0.0020 *
Earth	21511-09-23 18:57 G	9578056.05	9578056.29	9578056.56	0.0089	0.0017
Moon	21511-09-23 21:07 G	9578056.12	9578056.38	9578056.65	0.0089	0.0013 *

Moon	21512-09-25 07:12 G	9578423.56	9578423.80	9578424.05	0.0089	0.0019
Earth	21512-09-25 07:40 G	9578423.57	9578423.82	9578424.08	0.0089	0.0015 *
Moon	21513-09-27 18:57 G	9578791.03	9578791.29	9578791.56	0.0089	0.0009
Earth	21513-09-27 20:09 G	9578791.09	9578791.34	9578791.60	0.0089	0.0012 *
Mars	21514-09-18 21:50 G	9579147.13	9579147.41	9579147.69	0.0089	0.0028
Earth	21514-09-30 08:24 G	9579158.60	9579158.85	9579159.12	0.0089	0.0011
Moon	21514-09-30 10:19 G	9579158.68	9579158.93	9579159.17	0.0089	0.0014 *
Moon	21515-10-02 18:00 G	9579525.99	9579526.25	9579526.51	0.0089	0.0004
Earth	21515-10-02 20:52 G	9579526.12	9579526.37	9579526.63	0.0089	0.0008 *
Mars	21516-08-12 17:16 G	9579840.99	9579841.22	9579841.49	0.0089	0.0047
Earth	21516-10-04 09:21 G	9579893.63	9579893.89	9579894.15	0.0089	0.0006
Moon	21516-10-04 12:43 G	9579893.78	9579894.03	9579894.29	0.0089	0.0010 *
Moon	21517-10-06 18:14 G	9580261.00	9580261.26	9580261.52	0.0089	0.0000
Earth	21517-10-06 21:50 G	9580261.15	9580261.41	9580261.67	0.0089	0.0003 *
Earth	21518-10-09 09:50 G	9580628.65	9580628.91	9580629.17	0.0089	0.0001
Moon	21518-10-09 13:12 G	9580628.80	9580629.05	9580629.32	0.0089	0.0005 *
Moon	21519-10-11 19:26 G	9580996.07	9580996.31	9580996.57	0.0089	0.0005
Earth	21519-10-11 22:04 G	9580996.16	9580996.42	9580996.68	0.0089	0.0001 *
Earth	21520-10-13 09:50 G	9581363.66	9581363.91	9581364.17	0.0089	0.0004
Moon	21520-10-13 12:00 G	9581363.74	9581364.00	9581364.27	0.0089	0.0001 *
Moon	21521-10-15 21:21 G	9581731.15	9581731.39	9581731.64	0.0089	0.0009
Earth	21521-10-15 21:50 G	9581731.16	9581731.41	9581731.67	0.0089	0.0006 *
Moon	21522-10-18 08:52 G	9582098.60	9582098.87	9582099.14	0.0089	0.0005
Earth	21522-10-18 09:50 G	9582098.65	9582098.91	9582099.17	0.0089	0.0008 *
Earth	21523-10-20 21:36 G	9582466.14	9582466.40	9582466.65	0.0089	0.0010
Moon	21523-10-20 23:02 G	9582466.21	9582466.46	9582466.71	0.0089	0.0013 *
Moon	21524-10-22 06:14 G	9582833.50	9582833.76	9582834.03	0.0089	0.0009
Earth	21524-10-22 09:07 G	9582833.64	9582833.88	9582834.15	0.0089	0.0013 *
Earth	21525-10-24 20:52 G	9583201.13	9583201.37	9583201.64	0.0089	0.0015
Moon	21525-10-25 00:14 G	9583201.27	9583201.51	9583201.77	0.0089	0.0018 *

Moon	21526-10-27 05:02 G	9583568.47	9583568.71	9583568.98	0.0089	0.0015
Earth	21526-10-27 08:52 G	9583568.62	9583568.87	9583569.13	0.0089	0.0017 *
Earth	21527-10-29 20:38 G	9583936.11	9583936.36	9583936.61	0.0089	0.0019
Moon	21527-10-30 00:00 G	9583936.26	9583936.50	9583936.76	0.0089	0.0022 *
Moon	21528-10-31 05:45 G	9584303.51	9584303.74	9584304.00	0.0089	0.0019
Earth	21528-10-31 08:24 G	9584303.61	9584303.85	9584304.10	0.0089	0.0021 *
Earth	21529-11-02 20:09 G	9584671.09	9584671.34	9584671.59	0.0089	0.0023
Moon	21529-11-02 22:04 G	9584671.17	9584671.42	9584671.68	0.0089	0.0025 *
Moon	21530-11-05 07:12 G	9585038.57	9585038.80	9585039.05	0.0089	0.0023
Earth	21530-11-05 07:26 G	9585038.58	9585038.81	9585039.07	0.0089	0.0026 *
Moon	21531-11-07 17:45 G	9585406.01	9585406.24	9585406.51	0.0089	0.0030
Earth	21531-11-07 18:43 G	9585406.05	9585406.28	9585406.54	0.0089	0.0028 *
Earth	21532-11-09 06:00 G	9585773.53	9585773.75	9585774.01	0.0089	0.0030
Moon	21532-11-09 07:55 G	9585773.60	9585773.83	9585774.07	0.0089	0.0028 *
Moon	21533-11-11 14:38 G	9586140.87	9586141.11	9586141.36	0.0089	0.0034
Earth	21533-11-11 17:31 G	9586141.01	9586141.23	9586141.49	0.0089	0.0032 *
Earth	21534-11-14 04:33 G	9586508.47	9586508.69	9586508.95	0.0089	0.0034
Moon	21534-11-14 08:09 G	9586508.61	9586508.84	9586509.08	0.0089	0.0031 *
Moon	21535-11-16 12:14 G	9586875.79	9586876.01	9586876.26	0.0089	0.0037
Earth	21535-11-16 16:04 G	9586875.94	9586876.17	9586876.41	0.0089	0.0035 *
Earth	21536-11-18 03:07 G	9587243.41	9587243.63	9587243.88	0.0089	0.0037
Moon	21536-11-18 06:28 G	9587243.54	9587243.77	9587244.02	0.0089	0.0035 *
Moon	21537-11-20 11:45 G	9587610.79	9587610.99	9587611.23	0.0089	0.0041
Earth	21537-11-20 14:09 G	9587610.88	9587611.09	9587611.34	0.0089	0.0039 *
Earth	21538-11-23 01:12 G	9587978.34	9587978.55	9587978.80	0.0089	0.0041
Moon	21538-11-23 03:07 G	9587978.41	9587978.63	9587978.89	0.0089	0.0040 *
Moon	21539-11-25 12:14 G	9588345.81	9588346.01	9588346.24	0.0089	0.0044
Earth	21539-11-25 12:28 G	9588345.81	9588346.02	9588346.26	0.0089	0.0042 *
Moon	21540-11-26 22:33 G	9588713.22	9588713.44	9588713.69	0.0088	0.0042
Earth	21540-11-26 23:31 G	9588713.27	9588713.48	9588713.72	0.0088	0.0044 *

Venus	21541-06-28 10:33 G	9588926.85	9588926.94	9588927.07	0.0088	0.0076
Earth	21541-11-29 11:02 G	9589080.74	9589080.96	9589081.18	0.0088	0.0045
Moon	21541-11-29 12:43 G	9589080.82	9589081.03	9589081.25	0.0088	0.0046 *
Venus	21542-02-08 23:45 G	9589152.33	9589152.49	9589152.67	0.0088	0.0056
Venus	21542-09-22 12:43 G	9589377.84	9589378.03	9589378.24	0.0088	0.0036
Moon	21542-12-01 18:28 G	9589448.06	9589448.27	9589448.51	0.0088	0.0045
Earth	21542-12-01 21:36 G	9589448.20	9589448.40	9589448.63	0.0088	0.0047 *
Venus	21543-05-06 01:40 G	9589603.36	9589603.57	9589603.79	0.0088	0.0017
Earth	21543-12-04 08:38 G	9589815.65	9589815.86	9589816.08	0.0088	0.0048
Moon	21543-12-04 12:14 G	9589815.80	9589816.01	9589816.22	0.0088	0.0049 *
Venus	21543-12-17 14:38 G	9589828.89	9589829.11	9589829.33	0.0088	0.0003
Venus	21544-07-30 03:36 G	9590054.43	9590054.65	9590054.86	0.0088	0.0023
Moon	21544-12-05 15:50 G	9590182.96	9590183.16	9590183.39	0.0088	0.0049
Earth	21544-12-05 19:12 G	9590183.11	9590183.30	9590183.54	0.0088	0.0050 *
Venus	21545-03-12 16:04 G	9590279.99	9590280.17	9590280.37	0.0088	0.0043
Venus	21545-10-24 04:48 G	9590505.56	9590505.70	9590505.88	0.0088	0.0062
Earth	21545-12-08 06:00 G	9590550.56	9590550.75	9590550.98	0.0088	0.0050
Moon	21545-12-08 09:07 G	9590550.69	9590550.88	9590551.11	0.0088	0.0052 *
Venus	21546-06-06 17:45 G	9590731.17	9590731.24	9590731.33	0.0088	0.0082
Moon	21546-12-10 14:38 G	9590917.92	9590918.11	9590918.32	0.0088	0.0051
Earth	21546-12-10 16:48 G	9590918.01	9590918.20	9590918.42	0.0088	0.0051 *
Earth	21547-12-13 03:21 G	9591285.45	9591285.64	9591285.86	0.0088	0.0053
Moon	21547-12-13 05:02 G	9591285.51	9591285.71	9591285.93	0.0088	0.0053 *
Earth	21548-12-14 13:55 G	9591652.89	9591653.08	9591653.30	0.0088	0.0054
Moon	21548-12-14 14:09 G	9591652.90	9591653.09	9591653.30	0.0088	0.0053 *
Moon	21549-12-16 23:02 G	9592020.28	9592020.46	9592020.69	0.0088	0.0055
Earth	21549-12-17 00:28 G	9592020.34	9592020.52	9592020.74	0.0088	0.0055 *
Mercury	21550-08-03 22:04 G	9592250.39	9592250.42	9592250.47	0.0088	0.0085
Mercury	21550-10-30 23:45 G	9592338.44	9592338.49	9592338.57	0.0088	0.0078
Earth	21550-12-19 10:48 G	9592387.77	9592387.95	9592388.17	0.0088	0.0055

Moon	21550-12-19 12:57 G	9592387.86	9592388.04	9592388.25	0.0088	0.0055 *
Mercury	21551-01-27 01:55 G	9592426.49	9592426.58	9592426.67	0.0088	0.0071
Mercury	21551-04-25 03:21 G	9592514.55	9592514.64	9592514.75	0.0088	0.0064
Mercury	21551-07-22 05:16 G	9592602.61	9592602.72	9592602.84	0.0088	0.0056
Mercury	21551-10-18 07:12 G	9592690.68	9592690.80	9592690.93	0.0088	0.0049
Moon	21551-12-21 18:00 G	9592755.08	9592755.25	9592755.47	0.0088	0.0057
Earth	21551-12-21 22:04 G	9592755.22	9592755.42	9592755.62	0.0088	0.0056 *
Mercury	21552-01-14 08:52 G	9592778.75	9592778.87	9592779.01	0.0088	0.0042
Mercury	21552-04-11 10:48 G	9592866.82	9592866.95	9592867.09	0.0088	0.0034
Mercury	21552-07-08 12:43 G	9592954.89	9592955.03	9592955.17	0.0088	0.0026
Mercury	21552-10-04 14:24 G	9593042.96	9593043.10	9593043.25	0.0088	0.0019
Earth	21552-12-23 08:09 G	9593122.66	9593122.84	9593123.05	0.0088	0.0057
Moon	21552-12-23 11:31 G	9593122.80	9593122.98	9593123.20	0.0088	0.0056 *
Mercury	21552-12-31 16:19 G	9593131.03	9593131.18	9593131.33	0.0088	0.0012
Mercury	21553-03-29 18:14 G	9593219.11	9593219.26	9593219.41	0.0088	0.0004
Mercury	21553-06-25 20:09 G	9593307.19	9593307.34	9593307.49	0.0088	0.0004
Mercury	21553-09-21 21:50 G	9593395.27	9593395.41	9593395.57	0.0088	0.0011
Mercury	21553-12-18 23:45 G	9593483.35	9593483.49	9593483.64	0.0088	0.0019
Moon	21553-12-25 14:52 G	9593489.95	9593490.12	9593490.34	0.0088	0.0058
Earth	21553-12-25 18:43 G	9593490.10	9593490.28	9593490.49	0.0088	0.0057 *
Mercury	21554-03-17 01:40 G	9593571.43	9593571.57	9593571.72	0.0088	0.0026
Mercury	21554-06-13 03:21 G	9593659.51	9593659.64	9593659.79	0.0088	0.0034
Mercury	21554-09-09 05:31 G	9593747.60	9593747.73	9593747.86	0.0088	0.0041
Mercury	21554-12-06 07:12 G	9593835.68	9593835.80	9593835.94	0.0088	0.0049
Earth	21554-12-28 05:16 G	9593857.54	9593857.72	9593857.93	0.0088	0.0058
Moon	21554-12-28 08:09 G	9593857.66	9593857.84	9593858.06	0.0088	0.0057 *
Mercury	21555-03-04 09:07 G	9593923.78	9593923.88	9593924.01	0.0088	0.0057
Mercury	21555-05-31 11:16 G	9594011.87	9594011.97	9594012.07	0.0088	0.0064
Mercury	21555-08-27 12:57 G	9594099.97	9594100.04	9594100.14	0.0088	0.0072
Mercury	21555-11-23 14:52 G	9594188.07	9594188.12	9594188.20	0.0088	0.0080

Moon	21555-12-30 13:40 G	9594224.91	9594225.07	9594225.28	0.0088	0.0059
Earth	21555-12-30 15:36 G	9594224.98	9594225.15	9594225.37	0.0088	0.0058 *
Mercury	21556-02-19 16:48 G	9594276.20	9594276.20	9594276.23	0.0088	0.0088
Earth	21557-01-01 02:09 G	9594592.41	9594592.59	9594592.80	0.0088	0.0058
Moon	21557-01-01 03:36 G	9594592.46	9594592.65	9594592.86	0.0088	0.0059 *
Earth	21558-01-03 12:43 G	9594959.85	9594960.03	9594960.23	0.0088	0.0058
Moon	21558-01-03 12:57 G	9594959.88	9594960.04	9594960.25	0.0088	0.0059 *
Moon	21559-01-05 21:07 G	9595327.20	9595327.38	9595327.59	0.0088	0.0058
Earth	21559-01-05 22:33 G	9595327.27	9595327.44	9595327.66	0.0088	0.0059 *
Earth	21560-01-08 08:52 G	9595694.70	9595694.87	9595695.08	0.0088	0.0059
Moon	21560-01-08 11:31 G	9595694.81	9595694.98	9595695.18	0.0088	0.0058 *
Moon	21561-01-09 15:50 G	9596061.98	9596062.16	9596062.37	0.0088	0.0058
Earth	21561-01-09 19:12 G	9596062.14	9596062.30	9596062.52	0.0088	0.0059 *
Earth	21562-01-12 05:45 G	9596429.56	9596429.74	9596429.94	0.0088	0.0058
Moon	21562-01-12 09:07 G	9596429.70	9596429.88	9596430.08	0.0088	0.0058 *
Moon	21563-01-14 12:14 G	9596796.84	9596797.01	9596797.22	0.0088	0.0059
Earth	21563-01-14 16:04 G	9596796.99	9596797.17	9596797.37	0.0088	0.0058 *
Earth	21564-01-17 02:09 G	9597164.41	9597164.59	9597164.80	0.0088	0.0058
Moon	21564-01-17 04:33 G	9597164.52	9597164.69	9597164.91	0.0088	0.0058 *
Moon	21565-01-18 11:02 G	9597531.78	9597531.96	9597532.15	0.0088	0.0058
Earth	21565-01-18 12:14 G	9597531.84	9597532.01	9597532.23	0.0088	0.0058 *
Earth	21566-01-20 23:02 G	9597899.27	9597899.46	9597899.66	0.0088	0.0057
Moon	21566-01-20 23:45 G	9597899.30	9597899.49	9597899.70	0.0088	0.0056 *
Jupiter	21566-08-30 21:07 G	9598120.99	9598121.38	9598121.88	0.0088	0.0055
Earth	21567-01-23 09:07 G	9598266.70	9598266.88	9598267.09	0.0088	0.0057
Moon	21567-01-23 10:19 G	9598266.75	9598266.93	9598267.13	0.0088	0.0057 *
Moon	21568-01-25 17:31 G	9598634.04	9598634.23	9598634.45	0.0088	0.0056
Earth	21568-01-25 19:40 G	9598634.14	9598634.32	9598634.53	0.0088	0.0056 *
Earth	21569-01-27 05:45 G	9599001.56	9599001.74	9599001.96	0.0088	0.0056
Moon	21569-01-27 08:24 G	9599001.68	9599001.85	9599002.06	0.0088	0.0057 *

Moon	21570-01-29 12:14 G	9599368.83	9599369.01	9599369.24	0.0088	0.0055
Earth	21570-01-29 16:04 G	9599368.99	9599369.17	9599369.39	0.0088	0.0055 *
Earth	21571-02-01 02:24 G	9599736.41	9599736.60	9599736.82	0.0088	0.0054
Moon	21571-02-01 05:45 G	9599736.56	9599736.74	9599736.96	0.0088	0.0055 *
Moon	21572-02-03 09:21 G	9600103.70	9600103.89	9600104.11	0.0088	0.0052
Earth	21572-02-03 12:43 G	9600103.84	9600104.03	9600104.25	0.0088	0.0053 *
Earth	21573-02-04 23:02 G	9600471.26	9600471.46	9600471.67	0.0088	0.0052
Moon	21573-02-05 01:12 G	9600471.35	9600471.55	9600471.77	0.0088	0.0053 *
Moon	21574-02-07 08:09 G	9600838.64	9600838.84	9600839.05	0.0088	0.0050
Earth	21574-02-07 09:21 G	9600838.69	9600838.89	9600839.11	0.0088	0.0051 *
Earth	21575-02-09 19:26 G	9601206.11	9601206.31	9601206.54	0.0088	0.0050
Moon	21575-02-09 19:55 G	9601206.12	9601206.33	9601206.55	0.0088	0.0051 *
Earth	21576-02-12 05:45 G	9601573.54	9601573.74	9601573.97	0.0088	0.0049
Moon	21576-02-12 07:12 G	9601573.61	9601573.80	9601574.02	0.0088	0.0048 *
Moon	21577-02-13 13:55 G	9601940.87	9601941.08	9601941.31	0.0088	0.0048
Earth	21577-02-13 16:04 G	9601940.97	9601941.17	9601941.41	0.0088	0.0048 *
Earth	21578-02-16 02:38 G	9602308.40	9602308.61	9602308.84	0.0088	0.0046
Moon	21578-02-16 05:16 G	9602308.53	9602308.72	9602308.96	0.0088	0.0045 *
Moon	21579-02-18 09:07 G	9602675.68	9602675.88	9602676.12	0.0088	0.0046
Earth	21579-02-18 12:57 G	9602675.84	9602676.04	9602676.28	0.0088	0.0045 *
Earth	21580-02-20 23:45 G	9603043.27	9603043.49	9603043.72	0.0088	0.0043
Moon	21580-02-21 02:52 G	9603043.41	9603043.62	9603043.86	0.0088	0.0042 *
Moon	21581-02-22 06:43 G	9603410.58	9603410.78	9603411.02	0.0088	0.0044
Earth	21581-02-22 09:50 G	9603410.71	9603410.91	9603411.16	0.0088	0.0042 *
Earth	21582-02-24 20:38 G	9603778.14	9603778.36	9603778.60	0.0088	0.0040
Moon	21582-02-24 22:19 G	9603778.21	9603778.43	9603778.69	0.0088	0.0039 *
Moon	21583-02-27 06:14 G	9604145.54	9604145.76	9604145.99	0.0088	0.0040
Earth	21583-02-27 06:43 G	9604145.57	9604145.78	9604146.04	0.0088	0.0039 *
Moon	21584-02-29 17:16 G	9604512.99	9604513.22	9604513.48	0.0088	0.0035
Earth	21584-02-29 17:16 G	9604513.01	9604513.22	9604513.47	0.0088	0.0037 *



Earth	21585-03-03 03:50 G	9604880.44	9604880.66	9604880.91	0.0088	0.0035
Moon	21585-03-03 06:00 G	9604880.52	9604880.75	9604880.98	0.0088	0.0036 *
Moon	21586-03-05 11:31 G	9605247.76	9605247.98	9605248.25	0.0088	0.0032
Earth	21586-03-05 14:24 G	9605247.87	9605248.10	9605248.35	0.0088	0.0033 *
Earth	21587-03-08 00:57 G	9605615.31	9605615.54	9605615.79	0.0088	0.0031
Moon	21587-03-08 04:04 G	9605615.45	9605615.67	9605615.92	0.0088	0.0034 *
Moon	21588-03-09 07:55 G	9605982.60	9605982.83	9605983.08	0.0088	0.0028
Earth	21588-03-09 11:45 G	9605982.75	9605982.99	9605983.24	0.0088	0.0029 *
Earth	21589-03-11 22:04 G	9606350.18	9606350.42	9606350.67	0.0088	0.0027
Moon	21589-03-12 01:12 G	9606350.32	9606350.55	9606350.81	0.0088	0.0030 *
Moon	21590-03-14 05:45 G	9606717.51	9606717.74	9606718.00	0.0088	0.0023
Earth	21590-03-14 08:52 G	9606717.63	9606717.87	9606718.12	0.0088	0.0025 *
Earth	21591-03-16 19:40 G	9607085.07	9607085.32	9607085.57	0.0088	0.0023
Moon	21591-03-16 21:07 G	9607085.14	9607085.38	9607085.64	0.0088	0.0025 *
Moon	21592-03-18 05:45 G	9607452.51	9607452.74	9607452.99	0.0088	0.0019
Earth	21592-03-18 06:28 G	9607452.53	9607452.77	9607453.03	0.0088	0.0021 *
Moon	21593-03-20 17:02 G	9607819.95	9607820.21	9607820.47	0.0088	0.0021
Earth	21593-03-20 17:16 G	9607819.98	9607820.22	9607820.48	0.0088	0.0019 *
Earth	21594-03-23 04:04 G	9608187.43	9608187.67	9608187.93	0.0088	0.0017
Moon	21594-03-23 06:14 G	9608187.52	9608187.76	9608188.02	0.0088	0.0015 *
Moon	21595-03-25 12:14 G	9608554.76	9608555.01	9608555.28	0.0088	0.0017
Earth	21595-03-25 15:21 G	9608554.89	9608555.14	9608555.39	0.0088	0.0014 *
Earth	21596-03-27 02:09 G	9608922.34	9608922.59	9608922.85	0.0088	0.0012
Moon	21596-03-27 05:31 G	9608922.48	9608922.73	9608922.99	0.0088	0.0009 *
Mars	21596-08-07 17:31 G	9609056.09	9609056.23	9609056.44	0.0088	0.0075
Moon	21597-03-29 09:21 G	9609289.64	9609289.89	9609290.15	0.0088	0.0012
Earth	21597-03-29 12:57 G	9609289.79	9609290.04	9609290.30	0.0088	0.0010 *
Earth	21598-04-01 00:00 G	9609657.25	9609657.50	9609657.76	0.0088	0.0008
Moon	21598-04-01 03:21 G	9609657.38	9609657.64	9609657.90	0.0088	0.0005 *
Mars	21598-07-04 18:57 G	9609751.96	9609752.29	9609752.63	0.0088	0.0009

Moon	21599-04-03 08:09 G	9610024.60	9610024.84	9610025.10	0.0088	0.0009
Earth	21599-04-03 11:02 G	9610024.71	9610024.96	9610025.22	0.0088	0.0006 *
Earth	21600-04-04 22:04 G	9610392.16	9610392.42	9610392.68	0.0088	0.0003
Moon	21600-04-04 23:31 G	9610392.21	9610392.48	9610392.75	0.0088	0.0001 *
Moon	21601-04-07 08:52 G	9610759.62	9610759.87	9610760.12	0.0088	0.0004
Earth	21601-04-07 09:21 G	9610759.63	9610759.89	9610760.15	0.0088	0.0001 *
Moon	21602-04-09 19:40 G	9611127.06	9611127.32	9611127.59	0.0088	0.0005
Earth	21602-04-09 20:24 G	9611127.10	9611127.35	9611127.61	0.0088	0.0002 *
Earth	21603-04-12 07:40 G	9611494.57	9611494.82	9611495.08	0.0088	0.0004
Moon	21603-04-12 10:04 G	9611494.67	9611494.92	9611495.17	0.0088	0.0001 *
Moon	21604-04-13 16:19 G	9611861.92	9611862.18	9611862.45	0.0088	0.0009
Earth	21604-04-13 19:12 G	9611862.05	9611862.30	9611862.56	0.0088	0.0006 *
Earth	21605-04-16 06:28 G	9612229.52	9612229.77	9612230.03	0.0088	0.0008
Moon	21605-04-16 10:04 G	9612229.67	9612229.92	9612230.18	0.0088	0.0005 *
Moon	21606-04-18 14:38 G	9612596.86	9612597.11	9612597.37	0.0088	0.0014
Earth	21606-04-18 18:14 G	9612597.01	9612597.26	9612597.52	0.0088	0.0010 *
Earth	21607-04-21 05:31 G	9612964.49	9612964.73	9612965.00	0.0088	0.0014
Moon	21607-04-21 08:52 G	9612964.62	9612964.87	9612965.14	0.0088	0.0010 *
Moon	21608-04-22 14:24 G	9613331.87	9613332.10	9613332.36	0.0088	0.0019
Earth	21608-04-22 17:16 G	9613331.97	9613332.22	9613332.48	0.0088	0.0015 *
Earth	21609-04-25 04:48 G	9613699.46	9613699.70	9613699.96	0.0088	0.0018
Moon	21609-04-25 06:00 G	9613699.50	9613699.75	9613700.02	0.0088	0.0014 *
Moon	21610-04-27 16:04 G	9614066.94	9614067.17	9614067.42	0.0088	0.0023
Earth	21610-04-27 16:33 G	9614066.94	9614067.19	9614067.45	0.0088	0.0020 *
Moon	21611-04-30 03:07 G	9614434.39	9614434.63	9614434.91	0.0088	0.0019
Earth	21611-04-30 04:04 G	9614434.43	9614434.67	9614434.93	0.0088	0.0022 *
Earth	21612-05-01 15:50 G	9614801.92	9614802.16	9614802.42	0.0088	0.0024
Moon	21612-05-01 18:14 G	9614802.03	9614802.26	9614802.51	0.0088	0.0028 *
Moon	21613-05-04 00:43 G	9615169.29	9615169.53	9615169.80	0.0088	0.0023
Earth	21613-05-04 03:36 G	9615169.41	9615169.65	9615169.91	0.0088	0.0027 *

Earth	21614-05-06 15:21 G	9615536.91	9615537.14	9615537.40	0.0089	0.0029
Moon	21614-05-06 19:12 G	9615537.06	9615537.30	9615537.54	0.0089	0.0033 *
Moon	21615-05-09 00:00 G	9615904.27	9615904.50	9615904.76	0.0089	0.0027
Earth	21615-05-09 03:36 G	9615904.41	9615904.65	9615904.90	0.0089	0.0031 *
Earth	21616-05-10 15:21 G	9616271.91	9616272.14	9616272.39	0.0089	0.0033
Moon	21616-05-10 18:43 G	9616272.05	9616272.28	9616272.53	0.0089	0.0037 *
Moon	21617-05-13 00:43 G	9616639.31	9616639.53	9616639.79	0.0089	0.0031
Earth	21617-05-13 03:36 G	9616639.42	9616639.65	9616639.90	0.0089	0.0035 *
Earth	21618-05-15 15:36 G	9617006.93	9617007.15	9617007.40	0.0089	0.0037
Moon	21618-05-15 16:48 G	9617006.98	9617007.20	9617007.46	0.0089	0.0041 *
Moon	21619-05-18 03:36 G	9617374.43	9617374.65	9617374.89	0.0089	0.0035
Earth	21619-05-18 03:50 G	9617374.45	9617374.66	9617374.91	0.0089	0.0039 *
Moon	21620-05-19 15:21 G	9617741.92	9617742.14	9617742.39	0.0089	0.0045
Earth	21620-05-19 16:04 G	9617741.96	9617742.17	9617742.42	0.0089	0.0041 *
Earth	21621-05-22 04:48 G	9618109.47	9618109.70	9618109.93	0.0089	0.0042
Moon	21621-05-22 06:57 G	9618109.57	9618109.79	9618110.02	0.0089	0.0038 *
Moon	21622-05-24 14:09 G	9618476.88	9618477.09	9618477.32	0.0089	0.0048
Earth	21622-05-24 16:48 G	9618476.99	9618477.20	9618477.44	0.0089	0.0044 *
Earth	21623-05-27 05:02 G	9618844.50	9618844.71	9618844.95	0.0089	0.0046
Moon	21623-05-27 08:38 G	9618844.65	9618844.86	9618845.10	0.0089	0.0041 *
Moon	21624-05-28 13:40 G	9619211.88	9619212.07	9619212.30	0.0089	0.0052
Earth	21624-05-28 17:31 G	9619212.02	9619212.23	9619212.46	0.0089	0.0047 *
Venus	21624-11-06 22:48 G	9619374.33	9619374.45	9619374.58	0.0089	0.0072
Earth	21625-05-31 05:31 G	9619579.53	9619579.73	9619579.96	0.0089	0.0049
Moon	21625-05-31 09:07 G	9619579.66	9619579.88	9619580.12	0.0089	0.0044 *
Venus	21625-06-20 12:00 G	9619599.82	9619600.00	9619600.18	0.0089	0.0052
Venus	21626-02-01 00:43 G	9619825.34	9619825.53	9619825.75	0.0089	0.0033
Moon	21626-06-02 15:21 G	9619946.96	9619947.14	9619947.36	0.0089	0.0055
Earth	21626-06-02 18:14 G	9619947.06	9619947.26	9619947.49	0.0089	0.0050 *
Venus	21626-09-14 13:55 G	9620050.87	9620051.08	9620051.31	0.0089	0.0013

Venus	21627-04-28 03:21 G	9620276.42	9620276.64	9620276.86	0.0089	0.0008
Earth	21627-06-05 06:28 G	9620314.58	9620314.77	9620315.00	0.0089	0.0052
Moon	21627-06-05 08:09 G	9620314.62	9620314.84	9620315.08	0.0089	0.0047 *
Venus	21627-12-09 16:04 G	9620501.98	9620502.17	9620502.40	0.0089	0.0028
Moon	21628-06-06 18:28 G	9620682.09	9620682.27	9620682.48	0.0089	0.0057
Earth	21628-06-06 19:12 G	9620682.11	9620682.30	9620682.52	0.0089	0.0053 *
Venus	21628-07-22 05:16 G	9620727.55	9620727.72	9620727.92	0.0089	0.0048
Venus	21629-03-04 18:14 G	9620953.14	9620953.26	9620953.43	0.0089	0.0068
Moon	21629-06-09 07:12 G	9621049.59	9621049.80	9621050.03	0.0089	0.0049
Earth	21629-06-09 07:55 G	9621049.64	9621049.83	9621050.05	0.0089	0.0054 *
Venus	21629-10-16 07:26 G	9621178.80	9621178.81	9621178.87	0.0089	0.0088
Earth	21630-06-11 20:38 G	9621417.17	9621417.36	9621417.58	0.0089	0.0055
Moon	21630-06-11 22:33 G	9621417.28	9621417.44	9621417.65	0.0089	0.0060 *
Moon	21631-06-14 06:43 G	9621784.59	9621784.78	9621785.02	0.0089	0.0052
Earth	21631-06-14 09:50 G	9621784.71	9621784.91	9621785.11	0.0089	0.0056 *
Earth	21632-06-15 22:19 G	9622152.24	9622152.43	9622152.64	0.0089	0.0057
Moon	21632-06-16 01:40 G	9622152.40	9622152.57	9622152.77	0.0089	0.0063 *
Moon	21633-06-18 07:26 G	9622519.63	9622519.81	9622520.04	0.0089	0.0054
Earth	21633-06-18 11:16 G	9622519.78	9622519.97	9622520.17	0.0089	0.0058 *
Mercury	21634-01-27 08:38 G	9622742.84	9622742.86	9622742.91	0.0089	0.0087
Mercury	21634-04-25 11:16 G	9622830.91	9622830.97	9622831.06	0.0089	0.0079
Earth	21634-06-20 23:45 G	9622887.32	9622887.49	9622887.71	0.0089	0.0060
Moon	21634-06-21 03:36 G	9622887.48	9622887.65	9622887.84	0.0089	0.0064 *
Mercury	21634-07-22 13:55 G	9622918.99	9622919.08	9622919.20	0.0089	0.0070
Mercury	21634-10-18 16:48 G	9623007.08	9623007.20	9623007.32	0.0089	0.0061
Mercury	21635-01-14 18:57 G	9623095.17	9623095.29	9623095.44	0.0089	0.0052
Mercury	21635-04-12 21:36 G	9623183.26	9623183.40	9623183.56	0.0089	0.0043
Moon	21635-06-23 10:04 G	9623254.73	9623254.92	9623255.13	0.0089	0.0055
Earth	21635-06-23 12:43 G	9623254.86	9623255.03	9623255.24	0.0089	0.0060 *
Mercury	21635-07-10 00:14 G	9623271.36	9623271.51	9623271.67	0.0089	0.0035

Mercury	21635-10-06 02:38 G	9623359.46	9623359.61	9623359.78	0.0089	0.0026
Mercury	21636-01-02 05:16 G	9623447.56	9623447.72	9623447.88	0.0089	0.0017
Mercury	21636-03-30 07:40 G	9623535.66	9623535.82	9623535.99	0.0089	0.0009
Earth	21636-06-25 01:40 G	9623622.39	9623622.57	9623622.77	0.0089	0.0061
Moon	21636-06-25 03:36 G	9623622.47	9623622.65	9623622.84	0.0089	0.0065 *
Mercury	21636-06-26 10:19 G	9623623.76	9623623.93	9623624.09	0.0089	0.0002
Mercury	21636-09-22 12:43 G	9623711.86	9623712.03	9623712.19	0.0089	0.0008
Mercury	21636-12-19 14:52 G	9623799.97	9623800.12	9623800.29	0.0089	0.0018
Mercury	21637-03-17 17:31 G	9623888.07	9623888.23	9623888.39	0.0089	0.0025
Mercury	21637-06-13 19:40 G	9623976.18	9623976.32	9623976.48	0.0089	0.0034
Moon	21637-06-27 13:26 G	9623989.88	9623990.06	9623990.26	0.0089	0.0058
Earth	21637-06-27 14:24 G	9623989.93	9623990.10	9623990.30	0.0089	0.0061 *
Mercury	21637-09-09 22:04 G	9624064.29	9624064.42	9624064.58	0.0089	0.0043
Mercury	21637-12-07 00:43 G	9624152.40	9624152.53	9624152.66	0.0089	0.0050
Mercury	21638-03-05 02:38 G	9624240.51	9624240.61	9624240.75	0.0089	0.0060
Mercury	21638-06-01 05:02 G	9624328.62	9624328.71	9624328.83	0.0089	0.0068
Moon	21638-06-30 02:38 G	9624357.45	9624357.61	9624357.81	0.0089	0.0066
Earth	21638-06-30 03:36 G	9624357.47	9624357.65	9624357.84	0.0089	0.0062 *
Mercury	21638-08-28 07:40 G	9624416.74	9624416.82	9624416.91	0.0089	0.0075
Mercury	21638-11-24 10:04 G	9624504.87	9624504.92	9624504.98	0.0089	0.0084
Earth	21639-07-02 16:04 G	9624725.01	9624725.17	9624725.38	0.0089	0.0063
Moon	21639-07-02 17:45 G	9624725.08	9624725.24	9624725.46	0.0089	0.0059 *
Moon	21640-07-04 02:38 G	9625092.46	9625092.61	9625092.81	0.0089	0.0067
Earth	21640-07-04 05:02 G	9625092.55	9625092.71	9625092.92	0.0089	0.0063 *
Earth	21641-07-06 18:14 G	9625460.09	9625460.26	9625460.46	0.0089	0.0063
Moon	21641-07-06 21:36 G	9625460.23	9625460.40	9625460.61	0.0089	0.0059 *
Moon	21642-07-09 04:19 G	9625827.51	9625827.68	9625827.86	0.0089	0.0067
Earth	21642-07-09 07:40 G	9625827.65	9625827.82	9625828.02	0.0089	0.0063 *
Earth	21643-07-11 20:38 G	9626195.19	9626195.36	9626195.56	0.0089	0.0063
Moon	21643-07-12 00:00 G	9626195.33	9626195.50	9626195.72	0.0089	0.0060 *

Moon	21644-07-13 06:57 G	9626562.64	9626562.79	9626562.97	0.0089	0.0067
Earth	21644-07-13 09:50 G	9626562.75	9626562.91	9626563.11	0.0089	0.0063 *
Earth	21645-07-15 23:02 G	9626930.30	9626930.46	9626930.66	0.0089	0.0063
Moon	21645-07-16 01:26 G	9626930.37	9626930.56	9626930.77	0.0089	0.0059 *
Moon	21646-07-18 10:48 G	9627297.80	9627297.95	9627298.14	0.0089	0.0066
Earth	21646-07-18 12:00 G	9627297.85	9627298.00	9627298.22	0.0089	0.0063 *
Moon	21647-07-21 01:40 G	9627665.37	9627665.57	9627665.77	0.0089	0.0058
Earth	21647-07-21 01:40 G	9627665.39	9627665.57	9627665.77	0.0089	0.0062 *
Earth	21648-07-22 14:09 G	9628032.93	9628033.09	9628033.31	0.0089	0.0062
Moon	21648-07-22 15:50 G	9628033.00	9628033.16	9628033.35	0.0089	0.0065 *
Moon	21649-07-25 01:26 G	9628400.38	9628400.56	9628400.79	0.0089	0.0058
Earth	21649-07-25 03:36 G	9628400.48	9628400.65	9628400.86	0.0089	0.0061 *
Earth	21650-07-27 16:48 G	9628768.03	9628768.20	9628768.41	0.0089	0.0060
Moon	21650-07-27 19:55 G	9628768.17	9628768.33	9628768.53	0.0089	0.0064 *
Moon	21651-07-30 02:38 G	9629135.41	9629135.61	9629135.82	0.0090	0.0056
Earth	21651-07-30 06:14 G	9629135.57	9629135.76	9629135.96	0.0090	0.0059 *
Earth	21652-07-31 18:43 G	9629503.11	9629503.28	9629503.50	0.0090	0.0059
Moon	21652-07-31 22:33 G	9629503.27	9629503.44	9629503.65	0.0090	0.0061 *
Moon	21653-08-03 04:48 G	9629870.52	9629870.70	9629870.93	0.0090	0.0055
Earth	21653-08-03 07:55 G	9629870.66	9629870.83	9629871.06	0.0090	0.0058 *
Earth	21654-08-05 21:07 G	9630238.20	9630238.38	9630238.61	0.0090	0.0057
Moon	21654-08-06 00:14 G	9630238.31	9630238.51	9630238.71	0.0090	0.0058 *
Moon	21655-08-08 08:38 G	9630605.68	9630605.86	9630606.08	0.0090	0.0054
Earth	21655-08-08 10:48 G	9630605.75	9630605.95	9630606.16	0.0090	0.0055 *
Earth	21656-08-09 23:45 G	9630973.30	9630973.49	9630973.71	0.0090	0.0054
Moon	21656-08-10 00:00 G	9630973.30	9630973.50	9630973.72	0.0090	0.0056 *
Earth	21657-08-12 12:57 G	9631340.85	9631341.04	9631341.27	0.0090	0.0053
Moon	21657-08-12 13:55 G	9631340.89	9631341.08	9631341.30	0.0090	0.0051 *
Moon	21658-08-15 00:28 G	9631708.32	9631708.52	9631708.75	0.0090	0.0053
Earth	21658-08-15 02:24 G	9631708.40	9631708.60	9631708.82	0.0090	0.0051 *

Earth	21659-08-17 15:07 G	9632075.93	9632076.13	9632076.36	0.0090	0.0050
Moon	21659-08-17 18:14 G	9632076.06	9632076.26	9632076.49	0.0090	0.0048 *
Moon	21660-08-19 00:57 G	9632443.34	9632443.54	9632443.77	0.0090	0.0050
Earth	21660-08-19 04:33 G	9632443.48	9632443.69	9632443.91	0.0090	0.0048 *
Earth	21661-08-21 17:02 G	9632811.02	9632811.21	9632811.46	0.0090	0.0047
Moon	21661-08-21 21:07 G	9632811.17	9632811.38	9632811.61	0.0090	0.0046 *
Moon	21662-08-24 03:21 G	9633178.42	9633178.64	9633178.86	0.0090	0.0046
Earth	21662-08-24 06:14 G	9633178.55	9633178.76	9633179.00	0.0090	0.0045 *
Earth	21663-08-26 19:12 G	9633546.09	9633546.30	9633546.54	0.0090	0.0043
Moon	21663-08-26 21:50 G	9633546.20	9633546.41	9633546.66	0.0090	0.0043 *
Moon	21664-08-28 05:45 G	9633913.54	9633913.74	9633913.99	0.0090	0.0042
Earth	21664-08-28 08:09 G	9633913.62	9633913.84	9633914.08	0.0090	0.0041 *
Earth	21665-08-30 21:07 G	9634281.16	9634281.38	9634281.62	0.0090	0.0039
Moon	21665-08-30 21:50 G	9634281.17	9634281.41	9634281.65	0.0090	0.0038 *
Earth	21666-09-02 10:04 G	9634648.69	9634648.92	9634649.17	0.0090	0.0037
Moon	21666-09-02 10:19 G	9634648.72	9634648.93	9634649.18	0.0090	0.0038 *
Moon	21667-09-04 21:21 G	9635016.15	9635016.39	9635016.64	0.0090	0.0035
Earth	21667-09-04 23:02 G	9635016.23	9635016.46	9635016.70	0.0090	0.0035 *
Earth	21668-09-06 12:00 G	9635383.76	9635384.00	9635384.24	0.0089	0.0033
Moon	21668-09-06 14:38 G	9635383.89	9635384.11	9635384.36	0.0089	0.0033 *
Moon	21669-09-08 21:50 G	9635751.17	9635751.41	9635751.66	0.0089	0.0031
Earth	21669-09-09 00:57 G	9635751.31	9635751.54	9635751.79	0.0089	0.0031 *
Earth	21670-09-11 13:40 G	9636118.83	9636119.07	9636119.32	0.0089	0.0029
Moon	21670-09-11 17:16 G	9636118.99	9636119.22	9636119.48	0.0089	0.0028 *
Moon	21671-09-13 23:02 G	9636486.23	9636486.46	9636486.72	0.0089	0.0027
Earth	21671-09-14 02:24 G	9636486.37	9636486.60	9636486.86	0.0089	0.0027 *
Earth	21672-09-15 15:21 G	9636853.89	9636854.14	9636854.39	0.0089	0.0024
Moon	21672-09-15 18:14 G	9636854.01	9636854.26	9636854.52	0.0089	0.0023 *
Moon	21673-09-18 01:40 G	9637221.33	9637221.57	9637221.82	0.0089	0.0023
Earth	21673-09-18 03:50 G	9637221.42	9637221.66	9637221.92	0.0089	0.0022 *

Earth	21674-09-20 16:19 G	9637588.94	9637589.18	9637589.44	0.0089	0.0020
Moon	21674-09-20 17:02 G	9637588.96	9637589.21	9637589.48	0.0089	0.0019 *
Earth	21675-09-23 05:02 G	9637956.45	9637956.71	9637956.96	0.0089	0.0017
Moon	21675-09-23 04:48 G	9637956.47	9637956.70	9637956.96	0.0089	0.0019 *
Moon	21676-09-24 16:04 G	9638323.91	9638324.17	9638324.44	0.0089	0.0013
Earth	21676-09-24 17:16 G	9638323.98	9638324.22	9638324.48	0.0089	0.0015 *
Earth	21677-09-27 05:45 G	9638691.49	9638691.74	9638692.00	0.0089	0.0012
Moon	21677-09-27 08:24 G	9638691.61	9638691.85	9638692.11	0.0089	0.0014 *
Mars	21678-05-04 10:04 G	9638910.69	9638910.92	9638911.15	0.0089	0.0055
Moon	21678-09-29 15:07 G	9639058.88	9639059.13	9639059.40	0.0089	0.0008
Earth	21678-09-29 18:14 G	9639059.01	9639059.26	9639059.52	0.0089	0.0010 *
Earth	21679-10-02 06:43 G	9639426.52	9639426.78	9639427.04	0.0089	0.0007
Moon	21679-10-02 10:19 G	9639426.68	9639426.93	9639427.19	0.0089	0.0010 *
Mars	21680-03-28 03:50 G	9639604.38	9639604.66	9639604.95	0.0089	0.0019
Moon	21680-10-03 15:50 G	9639793.91	9639794.16	9639794.42	0.0089	0.0003
Earth	21680-10-03 19:12 G	9639794.05	9639794.30	9639794.56	0.0089	0.0005 *
Earth	21681-10-06 07:40 G	9640161.56	9640161.82	9640162.08	0.0089	0.0002
Moon	21681-10-06 10:48 G	9640161.69	9640161.95	9640162.21	0.0089	0.0005 *
Moon	21682-10-08 17:45 G	9640528.99	9640529.24	9640529.49	0.0089	0.0003
Earth	21682-10-08 20:09 G	9640529.08	9640529.34	9640529.60	0.0089	0.0001 *
Earth	21683-10-11 08:09 G	9640896.59	9640896.84	9640897.10	0.0089	0.0003
Moon	21683-10-11 09:07 G	9640896.61	9640896.88	9640897.15	0.0089	0.0001 *
Earth	21684-10-12 20:24 G	9641264.10	9641264.35	9641264.61	0.0089	0.0005
Moon	21684-10-12 20:09 G	9641264.10	9641264.34	9641264.60	0.0089	0.0009 *
Moon	21685-10-15 07:12 G	9641631.54	9641631.80	9641632.07	0.0089	0.0005
Earth	21685-10-15 08:24 G	9641631.60	9641631.85	9641632.12	0.0089	0.0008 *
Earth	21686-10-17 20:24 G	9641999.09	9641999.35	9641999.61	0.0089	0.0010
Moon	21686-10-17 23:02 G	9641999.21	9641999.46	9641999.71	0.0089	0.0013 *
Moon	21687-10-20 05:16 G	9642366.46	9642366.72	9642366.98	0.0089	0.0010
Earth	21687-10-20 08:09 G	9642366.59	9642366.84	9642367.10	0.0089	0.0013 *



Earth	21688-10-21 19:55 G	9642734.09	9642734.33	9642734.60	0.0089	0.0016
Moon	21688-10-21 23:45 G	9642734.24	9642734.49	9642734.74	0.0089	0.0019 *
Moon	21689-10-24 04:33 G	9643101.44	9643101.69	9643101.95	0.0089	0.0015
Earth	21689-10-24 07:40 G	9643101.58	9643101.82	9643102.09	0.0089	0.0018 *
Earth	21690-10-26 19:26 G	9643469.07	9643469.31	9643469.57	0.0089	0.0020
Moon	21690-10-26 22:48 G	9643469.20	9643469.45	9643469.71	0.0089	0.0023 *
Moon	21691-10-29 04:48 G	9643836.47	9643836.70	9643836.96	0.0089	0.0019
Earth	21691-10-29 07:26 G	9643836.56	9643836.81	9643837.06	0.0089	0.0022 *
Earth	21692-10-30 19:12 G	9644204.05	9644204.30	9644204.55	0.0089	0.0024
Moon	21692-10-30 19:40 G	9644204.08	9644204.32	9644204.59	0.0089	0.0028 *
Earth	21693-11-02 06:43 G	9644571.54	9644571.78	9644572.03	0.0089	0.0027
Moon	21693-11-02 06:28 G	9644571.54	9644571.77	9644572.02	0.0089	0.0024 *
Moon	21694-11-04 16:48 G	9644938.97	9644939.20	9644939.46	0.0089	0.0033
Earth	21694-11-04 18:14 G	9644939.03	9644939.26	9644939.52	0.0089	0.0029 *
Earth	21695-11-07 06:00 G	9645306.51	9645306.75	9645307.00	0.0089	0.0031
Moon	21695-11-07 08:24 G	9645306.62	9645306.85	9645307.10	0.0089	0.0028 *
Moon	21696-11-08 14:24 G	9645673.88	9645674.10	9645674.35	0.0089	0.0037
Earth	21696-11-08 17:31 G	9645674.00	9645674.23	9645674.48	0.0089	0.0033 *
Earth	21697-11-11 04:33 G	9646041.47	9646041.69	9646041.94	0.0089	0.0036
Moon	21697-11-11 08:38 G	9646041.62	9646041.86	9646042.10	0.0089	0.0031 *
Moon	21698-11-13 12:43 G	9646408.82	9646409.03	9646409.27	0.0089	0.0041
Earth	21698-11-13 16:19 G	9646408.95	9646409.18	9646409.42	0.0089	0.0037 *
Earth	21699-11-16 03:07 G	9646776.42	9646776.63	9646776.88	0.0089	0.0040
Moon	21699-11-16 06:28 G	9646776.54	9646776.77	9646777.02	0.0089	0.0035 *
Moon	21700-11-18 12:00 G	9647143.81	9647144.00	9647144.24	0.0089	0.0046
Earth	21700-11-18 14:38 G	9647143.89	9647144.11	9647144.34	0.0089	0.0041 *
Earth	21701-11-21 01:40 G	9647511.35	9647511.57	9647511.80	0.0089	0.0043
Moon	21701-11-21 02:09 G	9647511.37	9647511.59	9647511.85	0.0089	0.0040 *
Earth	21702-11-23 12:28 G	9647878.81	9647879.02	9647879.26	0.0089	0.0045
Moon	21702-11-23 12:28 G	9647878.83	9647879.02	9647879.24	0.0089	0.0049 *

Moon	21703-11-25 21:50 G	9648246.20	9648246.41	9648246.66	0.0089	0.0043
Earth	21703-11-25 23:31 G	9648246.28	9648246.48	9648246.72	0.0089	0.0047 *
Earth	21704-11-27 10:48 G	9648613.74	9648613.95	9648614.17	0.0089	0.0048
Moon	21704-11-27 13:12 G	9648613.86	9648614.05	9648614.27	0.0089	0.0052 *
Venus	21705-09-30 22:04 G	9648921.36	9648921.42	9648921.52	0.0089	0.0083
Moon	21705-11-29 18:28 G	9648981.06	9648981.27	9648981.51	0.0088	0.0046
Earth	21705-11-29 21:36 G	9648981.20	9648981.40	9648981.63	0.0088	0.0050 *
Venus	21706-05-14 11:31 G	9649146.82	9649146.98	9649147.13	0.0088	0.0063
Earth	21706-12-02 08:52 G	9649348.66	9649348.87	9649349.08	0.0088	0.0051
Moon	21706-12-02 12:14 G	9649348.83	9649349.01	9649349.23	0.0088	0.0056 *
Venus	21706-12-26 00:00 G	9649372.32	9649372.50	9649372.70	0.0088	0.0044
Venus	21707-08-08 13:12 G	9649597.84	9649598.05	9649598.26	0.0088	0.0024
Moon	21707-12-04 16:33 G	9649715.99	9649716.19	9649716.41	0.0088	0.0049
Earth	21707-12-04 19:40 G	9649716.13	9649716.32	9649716.54	0.0088	0.0053 *
Venus	21708-03-21 02:09 G	9649823.37	9649823.59	9649823.81	0.0088	0.0004
Venus	21708-11-01 14:52 G	9650048.91	9650049.12	9650049.34	0.0088	0.0016
Earth	21708-12-06 06:43 G	9650083.59	9650083.78	9650083.99	0.0088	0.0054
Moon	21708-12-06 09:21 G	9650083.72	9650083.89	9650084.11	0.0088	0.0059 *
Venus	21709-06-15 03:36 G	9650274.46	9650274.65	9650274.86	0.0088	0.0035
Moon	21709-12-08 15:36 G	9650450.96	9650451.15	9650451.37	0.0088	0.0051
Earth	21709-12-08 17:16 G	9650451.04	9650451.22	9650451.44	0.0088	0.0056 *
Venus	21710-01-26 16:33 G	9650500.02	9650500.19	9650500.37	0.0088	0.0055
Venus	21710-09-09 05:16 G	9650725.62	9650725.72	9650725.85	0.0088	0.0075
Earth	21710-12-11 03:50 G	9650818.49	9650818.66	9650818.89	0.0088	0.0057
Moon	21710-12-11 05:02 G	9650818.52	9650818.71	9650818.90	0.0088	0.0060 *
Earth	21711-12-13 14:52 G	9651185.94	9651186.12	9651186.33	0.0088	0.0057
Moon	21711-12-13 15:07 G	9651185.95	9651186.13	9651186.34	0.0088	0.0053 *
Moon	21712-12-14 23:45 G	9651553.32	9651553.49	9651553.69	0.0088	0.0063
Earth	21712-12-15 01:26 G	9651553.39	9651553.56	9651553.77	0.0088	0.0059 *
Earth	21713-12-17 12:00 G	9651920.83	9651921.00	9651921.21	0.0088	0.0059

Moon	21713-12-17 14:52 G	9651920.94	9651921.12	9651921.33	0.0088	0.0055 *
Moon	21714-12-19 19:26 G	9652288.15	9652288.31	9652288.51	0.0088	0.0065
Earth	21714-12-19 22:33 G	9652288.28	9652288.44	9652288.65	0.0088	0.0060 *
Mercury	21715-02-02 20:24 G	9652333.35	9652333.35	9652333.35	0.0088	0.0088
Mercury	21715-05-01 21:50 G	9652421.37	9652421.41	9652421.48	0.0088	0.0081
Mercury	21715-07-28 23:31 G	9652509.41	9652509.48	9652509.57	0.0088	0.0074
Mercury	21715-10-25 01:26 G	9652597.47	9652597.56	9652597.66	0.0088	0.0067
Earth	21715-12-22 09:36 G	9652655.72	9652655.90	9652656.09	0.0088	0.0061
Moon	21715-12-22 12:57 G	9652655.86	9652656.04	9652656.26	0.0088	0.0056 *
Mercury	21716-01-21 03:07 G	9652685.53	9652685.63	9652685.75	0.0088	0.0060
Mercury	21716-04-18 05:02 G	9652773.60	9652773.71	9652773.84	0.0088	0.0052
Mercury	21716-07-15 06:57 G	9652861.66	9652861.79	9652861.92	0.0088	0.0045
Mercury	21716-10-11 08:38 G	9652949.73	9652949.86	9652950.00	0.0088	0.0037
Moon	21716-12-23 17:02 G	9653023.05	9653023.21	9653023.38	0.0088	0.0066
Earth	21716-12-23 19:55 G	9653023.16	9653023.33	9653023.53	0.0088	0.0061 *
Mercury	21717-01-07 10:19 G	9653037.80	9653037.93	9653038.08	0.0088	0.0030
Mercury	21717-04-05 12:28 G	9653125.87	9653126.02	9653126.16	0.0088	0.0023
Mercury	21717-07-02 14:09 G	9653213.95	9653214.09	9653214.24	0.0088	0.0015
Mercury	21717-09-28 16:04 G	9653302.02	9653302.17	9653302.32	0.0088	0.0008
Mercury	21717-12-25 18:00 G	9653390.10	9653390.25	9653390.40	0.0088	0.0002
Earth	21717-12-26 06:14 G	9653390.60	9653390.76	9653390.96	0.0088	0.0062
Moon	21717-12-26 09:21 G	9653390.70	9653390.89	9653391.10	0.0088	0.0057 *
Mercury	21718-03-23 19:40 G	9653478.17	9653478.32	9653478.47	0.0088	0.0008
Mercury	21718-06-19 21:36 G	9653566.25	9653566.40	9653566.55	0.0088	0.0015
Mercury	21718-09-15 23:16 G	9653654.33	9653654.47	9653654.63	0.0088	0.0023
Mercury	21718-12-13 01:26 G	9653742.42	9653742.56	9653742.70	0.0088	0.0030
Moon	21718-12-28 15:07 G	9653757.99	9653758.13	9653758.31	0.0088	0.0068
Earth	21718-12-28 17:02 G	9653758.04	9653758.21	9653758.40	0.0088	0.0062 *
Mercury	21719-03-11 03:07 G	9653830.50	9653830.63	9653830.77	0.0088	0.0038
Mercury	21719-06-07 05:16 G	9653918.59	9653918.72	9653918.85	0.0088	0.0045

Mercury	21719-09-03 06:57 G	9654006.68	9654006.79	9654006.92	0.0088	0.0053
Mercury	21719-11-30 08:52 G	9654094.77	9654094.87	9654094.99	0.0088	0.0061
Moon	21719-12-31 04:04 G	9654125.47	9654125.67	9654125.87	0.0088	0.0059
Earth	21719-12-31 03:21 G	9654125.48	9654125.64	9654125.84	0.0088	0.0063 *
Mercury	21720-02-26 11:02 G	9654182.86	9654182.96	9654183.05	0.0088	0.0069
Mercury	21720-05-24 12:43 G	9654270.96	9654271.03	9654271.11	0.0088	0.0076
Mercury	21720-08-20 14:38 G	9654359.08	9654359.11	9654359.16	0.0088	0.0084
Earth	21721-01-01 13:55 G	9654492.93	9654493.08	9654493.28	0.0088	0.0063
Moon	21721-01-01 14:52 G	9654492.97	9654493.12	9654493.28	0.0088	0.0067 *
Moon	21722-01-03 22:04 G	9654860.25	9654860.42	9654860.64	0.0088	0.0059
Earth	21722-01-04 00:43 G	9654860.36	9654860.53	9654860.72	0.0088	0.0063 *
Earth	21723-01-06 11:02 G	9655227.80	9655227.96	9655228.15	0.0088	0.0063
Moon	21723-01-06 13:40 G	9655227.94	9655228.07	9655228.26	0.0088	0.0068 *
Moon	21724-01-08 18:00 G	9655595.08	9655595.25	9655595.46	0.0088	0.0059
Earth	21724-01-08 21:50 G	9655595.23	9655595.41	9655595.59	0.0088	0.0063 *
Earth	21725-01-10 07:40 G	9655962.66	9655962.82	9655963.01	0.0088	0.0063
Moon	21725-01-10 11:16 G	9655962.83	9655962.97	9655963.15	0.0088	0.0068 *
Moon	21726-01-12 14:52 G	9656329.96	9656330.12	9656330.33	0.0088	0.0059
Earth	21726-01-12 18:00 G	9656330.09	9656330.25	9656330.44	0.0088	0.0063 *
Earth	21727-01-15 04:04 G	9656697.51	9656697.67	9656697.87	0.0088	0.0063
Moon	21727-01-15 06:57 G	9656697.63	9656697.79	9656697.97	0.0088	0.0067 *
Moon	21728-01-17 13:26 G	9657064.88	9657065.06	9657065.26	0.0088	0.0058
Earth	21728-01-17 14:09 G	9657064.94	9657065.09	9657065.30	0.0088	0.0063 *
Moon	21729-01-19 00:28 G	9657432.36	9657432.52	9657432.71	0.0088	0.0066
Earth	21729-01-19 00:43 G	9657432.37	9657432.53	9657432.73	0.0088	0.0062 *
Earth	21730-01-21 10:48 G	9657799.79	9657799.95	9657800.15	0.0088	0.0062
Moon	21730-01-21 11:31 G	9657799.82	9657799.98	9657800.20	0.0088	0.0058 *
Moon	21731-01-23 18:28 G	9658167.12	9658167.27	9658167.47	0.0088	0.0066
Earth	21731-01-23 21:21 G	9658167.22	9658167.39	9658167.59	0.0088	0.0061 *
Earth	21732-01-26 07:55 G	9658534.65	9658534.83	9658535.02	0.0088	0.0060

Moon	21732-01-26 10:48 G	9658534.77	9658534.95	9658535.16	0.0088	0.0056 *
Jupiter	21732-11-08 23:45 G	9658821.92	9658822.49	9658823.06	0.0088	0.0003
Moon	21733-01-27 14:24 G	9658901.94	9658902.10	9658902.29	0.0088	0.0064
Earth	21733-01-27 17:45 G	9658902.08	9658902.24	9658902.45	0.0088	0.0060 *
Earth	21734-01-30 04:04 G	9659269.50	9659269.67	9659269.88	0.0088	0.0059
Moon	21734-01-30 07:55 G	9659269.64	9659269.83	9659270.05	0.0088	0.0054 *
Moon	21735-02-01 12:00 G	9659636.84	9659637.00	9659637.19	0.0088	0.0062
Earth	21735-02-01 14:24 G	9659636.93	9659637.10	9659637.32	0.0088	0.0058 *
Earth	21736-02-04 00:43 G	9660004.36	9660004.53	9660004.75	0.0088	0.0057
Moon	21736-02-04 03:36 G	9660004.44	9660004.65	9660004.86	0.0088	0.0052 *
Moon	21737-02-05 10:33 G	9660371.77	9660371.94	9660372.13	0.0088	0.0060
Earth	21737-02-05 11:02 G	9660371.78	9660371.96	9660372.18	0.0088	0.0056 *
Moon	21738-02-07 20:52 G	9660739.16	9660739.37	9660739.59	0.0088	0.0050
Earth	21738-02-07 21:07 G	9660739.20	9660739.38	9660739.60	0.0088	0.0055 *
Earth	21739-02-10 07:40 G	9661106.63	9661106.82	9661107.04	0.0088	0.0053
Moon	21739-02-10 08:38 G	9661106.70	9661106.86	9661107.08	0.0088	0.0058 *
Moon	21740-02-12 14:52 G	9661473.92	9661474.12	9661474.36	0.0088	0.0047
Earth	21740-02-12 17:45 G	9661474.06	9661474.24	9661474.47	0.0088	0.0052 *
Earth	21741-02-14 04:19 G	9661841.47	9661841.68	9661841.89	0.0088	0.0050
Moon	21741-02-14 07:12 G	9661841.62	9661841.80	9661842.02	0.0088	0.0055 *
Moon	21742-02-16 11:16 G	9662208.74	9662208.97	9662209.19	0.0088	0.0044
Earth	21742-02-16 14:24 G	9662208.90	9662209.10	9662209.33	0.0088	0.0049 *
Earth	21743-02-19 00:57 G	9662576.33	9662576.54	9662576.76	0.0088	0.0047
Moon	21743-02-19 04:04 G	9662576.48	9662576.67	9662576.90	0.0088	0.0052 *
Moon	21744-02-21 08:38 G	9662943.66	9662943.86	9662944.10	0.0088	0.0042
Earth	21744-02-21 11:02 G	9662943.76	9662943.96	9662944.20	0.0088	0.0046 *
Earth	21745-02-22 21:36 G	9663311.19	9663311.40	9663311.64	0.0088	0.0044
Moon	21745-02-22 23:31 G	9663311.28	9663311.48	9663311.72	0.0088	0.0048 *
Moon	21746-02-25 07:55 G	9663678.62	9663678.83	9663679.07	0.0088	0.0038
Earth	21746-02-25 08:24 G	9663678.63	9663678.85	9663679.08	0.0088	0.0042 *

Moon	21747-02-27 18:00 G	9664046.02	9664046.25	9664046.48	0.0088	0.0044
Earth	21747-02-27 18:57 G	9664046.07	9664046.29	9664046.52	0.0088	0.0040 *
Earth	21748-03-01 05:02 G	9664413.50	9664413.71	9664413.96	0.0088	0.0039
Moon	21748-03-01 06:57 G	9664413.57	9664413.79	9664414.03	0.0088	0.0035 *
Moon	21749-03-03 12:28 G	9664780.80	9664781.02	9664781.27	0.0088	0.0041
Earth	21749-03-03 15:36 G	9664780.93	9664781.15	9664781.40	0.0088	0.0037 *
Earth	21750-03-06 02:09 G	9665148.37	9665148.59	9665148.84	0.0088	0.0035
Moon	21750-03-06 05:45 G	9665148.51	9665148.74	9665148.99	0.0088	0.0030 *
Moon	21751-03-08 09:07 G	9665515.67	9665515.88	9665516.13	0.0088	0.0037
Earth	21751-03-08 12:43 G	9665515.81	9665516.03	9665516.29	0.0088	0.0033 *
Earth	21752-03-09 23:02 G	9665883.24	9665883.46	9665883.72	0.0088	0.0031
Moon	21752-03-10 02:38 G	9665883.37	9665883.61	9665883.87	0.0088	0.0026 *
Moon	21753-03-12 07:55 G	9666250.60	9666250.83	9666251.07	0.0088	0.0032
Earth	21753-03-12 10:04 G	9666250.68	9666250.92	9666251.17	0.0088	0.0028 *
Earth	21754-03-14 20:38 G	9666618.12	9666618.36	9666618.61	0.0088	0.0026
Moon	21754-03-14 22:19 G	9666618.18	9666618.43	9666618.70	0.0088	0.0022 *
Earth	21755-03-17 07:12 G	9666985.57	9666985.80	9666986.06	0.0088	0.0024
Moon	21755-03-17 07:26 G	9666985.58	9666985.81	9666986.06	0.0088	0.0028 *
Moon	21756-03-18 16:48 G	9667352.95	9667353.20	9667353.47	0.0088	0.0018
Earth	21756-03-18 18:00 G	9667353.02	9667353.25	9667353.52	0.0088	0.0022 *
Earth	21757-03-21 05:02 G	9667720.46	9667720.71	9667720.96	0.0088	0.0019
Moon	21757-03-21 06:57 G	9667720.55	9667720.79	9667721.04	0.0088	0.0023 *
Moon	21758-03-23 12:43 G	9668087.77	9668088.03	9668088.29	0.0088	0.0012
Earth	21758-03-23 15:50 G	9668087.92	9668088.16	9668088.43	0.0088	0.0017 *
Earth	21759-03-26 03:07 G	9668455.37	9668455.63	9668455.88	0.0088	0.0014
Moon	21759-03-26 06:28 G	9668455.52	9668455.77	9668456.02	0.0088	0.0018 *
Moon	21760-03-27 10:19 G	9668822.68	9668822.93	9668823.19	0.0088	0.0008
Earth	21760-03-27 13:55 G	9668822.83	9668823.08	9668823.34	0.0088	0.0012 *
Earth	21761-03-30 00:43 G	9669190.29	9669190.53	9669190.80	0.0088	0.0010
Moon	21761-03-30 03:50 G	9669190.41	9669190.66	9669190.93	0.0088	0.0014 *

Mars	21762-02-16 14:38 G	9669513.80	9669514.11	9669514.47	0.0088	0.0021
Moon	21762-04-01 10:04 G	9669557.67	9669557.92	9669558.17	0.0088	0.0003
Earth	21762-04-01 12:00 G	9669557.75	9669558.00	9669558.26	0.0088	0.0007 *
Earth	21763-04-03 23:02 G	9669925.20	9669925.46	9669925.72	0.0088	0.0005
Moon	21763-04-04 00:28 G	9669925.25	9669925.52	9669925.79	0.0088	0.0008 *
Mars	21764-01-13 15:21 G	9670209.93	9670210.14	9670210.40	0.0088	0.0063
Earth	21764-04-05 10:04 G	9670292.66	9670292.92	9670293.18	0.0088	0.0002
Moon	21764-04-05 10:33 G	9670292.69	9670292.94	9670293.19	0.0088	0.0002 *
Moon	21765-04-07 19:26 G	9670660.05	9670660.31	9670660.58	0.0088	0.0004
Earth	21765-04-07 21:07 G	9670660.12	9670660.38	9670660.64	0.0088	0.0000 *
Earth	21766-04-10 08:09 G	9671027.59	9671027.84	9671028.10	0.0088	0.0003
Moon	21766-04-10 10:33 G	9671027.68	9671027.94	9671028.19	0.0088	0.0007 *
Moon	21767-04-12 16:04 G	9671394.91	9671395.17	9671395.43	0.0088	0.0001
Earth	21767-04-12 19:26 G	9671395.06	9671395.31	9671395.57	0.0088	0.0006 *
Earth	21768-04-14 06:28 G	9671762.52	9671762.77	9671763.03	0.0088	0.0008
Moon	21768-04-14 10:04 G	9671762.66	9671762.92	9671763.17	0.0088	0.0011 *
Moon	21769-04-16 14:24 G	9672129.85	9672130.10	9672130.36	0.0088	0.0007
Earth	21769-04-16 18:00 G	9672130.00	9672130.25	9672130.51	0.0088	0.0010 *
Earth	21770-04-19 05:31 G	9672497.47	9672497.73	9672497.98	0.0088	0.0013
Moon	21770-04-19 08:24 G	9672497.59	9672497.85	9672498.11	0.0088	0.0016 *
Moon	21771-04-21 14:52 G	9672864.88	9672865.12	9672865.38	0.0088	0.0013
Earth	21771-04-21 16:48 G	9672864.96	9672865.20	9672865.46	0.0088	0.0016 *
Earth	21772-04-23 04:33 G	9673232.44	9673232.69	9673232.95	0.0088	0.0018
Moon	21772-04-23 05:45 G	9673232.49	9673232.74	9673233.01	0.0088	0.0021 *
Earth	21773-04-25 15:50 G	9673599.92	9673600.16	9673600.43	0.0088	0.0021
Moon	21773-04-25 16:48 G	9673599.95	9673600.20	9673600.44	0.0088	0.0017 *
Moon	21774-04-28 02:09 G	9673967.34	9673967.59	9673967.85	0.0088	0.0026
Earth	21774-04-28 03:36 G	9673967.41	9673967.65	9673967.91	0.0088	0.0023 *
Earth	21775-04-30 15:07 G	9674334.90	9674335.13	9674335.39	0.0088	0.0025
Moon	21775-04-30 17:31 G	9674335.00	9674335.23	9674335.49	0.0088	0.0023 *

Moon	21776-05-01 23:31 G	9674702.24	9674702.48	9674702.73	0.0088	0.0031
Earth	21776-05-02 02:52 G	9674702.38	9674702.62	9674702.88	0.0088	0.0027 *
Earth	21777-05-04 14:38 G	9675069.87	9675070.11	9675070.36	0.0088	0.0030
Moon	21777-05-04 18:14 G	9675070.02	9675070.26	9675070.51	0.0088	0.0027 *
Moon	21778-05-06 22:48 G	9675437.23	9675437.45	9675437.70	0.0089	0.0034
Earth	21778-05-07 02:24 G	9675437.37	9675437.60	9675437.85	0.0089	0.0032 *
Earth	21779-05-09 14:24 G	9675804.86	9675805.10	9675805.34	0.0089	0.0034
Moon	21779-05-09 17:16 G	9675804.97	9675805.22	9675805.47	0.0089	0.0031 *
Moon	21780-05-11 00:00 G	9676172.29	9676172.50	9676172.74	0.0089	0.0039
Earth	21780-05-11 01:55 G	9676172.36	9676172.58	9676172.83	0.0089	0.0036 *
Earth	21781-05-13 13:40 G	9676539.86	9676540.07	9676540.33	0.0089	0.0039
Moon	21781-05-13 14:52 G	9676539.90	9676540.12	9676540.39	0.0089	0.0037 *
Earth	21782-05-16 01:55 G	9676907.37	9676907.58	9676907.83	0.0089	0.0041
Moon	21782-05-16 02:52 G	9676907.41	9676907.62	9676907.84	0.0089	0.0043 *
Moon	21783-05-18 12:57 G	9677274.81	9677275.04	9677275.28	0.0089	0.0040
Earth	21783-05-18 14:09 G	9677274.88	9677275.09	9677275.34	0.0089	0.0043 *
Earth	21784-05-20 02:09 G	9677642.39	9677642.59	9677642.84	0.0089	0.0045
Moon	21784-05-20 05:02 G	9677642.50	9677642.71	9677642.93	0.0089	0.0046 *
Moon	21785-05-22 11:16 G	9678009.76	9678009.97	9678010.21	0.0089	0.0044
Earth	21785-05-22 14:38 G	9678009.91	9678010.11	9678010.35	0.0089	0.0047 *
Earth	21786-05-25 03:21 G	9678377.43	9678377.64	9678377.87	0.0089	0.0048
Moon	21786-05-25 06:28 G	9678377.58	9678377.77	9678378.00	0.0089	0.0050 *
Moon	21787-05-27 11:45 G	9678744.79	9678744.99	9678745.22	0.0089	0.0049
Earth	21787-05-27 15:36 G	9678744.95	9678745.15	9678745.38	0.0089	0.0050 *
Earth	21788-05-29 03:36 G	9679112.46	9679112.65	9679112.88	0.0089	0.0052
Moon	21788-05-29 06:57 G	9679112.59	9679112.79	9679113.01	0.0089	0.0053 *
Venus	21789-02-09 10:19 G	9679368.85	9679368.93	9679369.05	0.0089	0.0079
Moon	21789-05-31 13:55 G	9679479.90	9679480.08	9679480.31	0.0089	0.0053
Earth	21789-05-31 16:33 G	9679479.99	9679480.19	9679480.40	0.0089	0.0053 *
Venus	21789-09-22 23:31 G	9679594.33	9679594.48	9679594.66	0.0089	0.0059



Venus	21790-05-06 12:57 G	9679819.84	9679820.04	9679820.24	0.0089	0.0039
Earth	21790-06-03 04:33 G	9679847.51	9679847.69	9679847.91	0.0089	0.0055
Moon	21790-06-03 05:45 G	9679847.56	9679847.74	9679847.98	0.0089	0.0056 *
Venus	21790-12-18 01:55 G	9680045.37	9680045.58	9680045.80	0.0089	0.0019
Earth	21791-06-05 17:31 G	9680215.03	9680215.23	9680215.43	0.0089	0.0056
Moon	21791-06-05 17:45 G	9680215.05	9680215.24	9680215.44	0.0089	0.0055 *
Venus	21791-07-31 15:07 G	9680270.91	9680271.13	9680271.35	0.0089	0.0001
Venus	21792-03-13 04:04 G	9680496.47	9680496.67	9680496.90	0.0089	0.0021
Moon	21792-06-07 04:04 G	9680582.49	9680582.67	9680582.90	0.0089	0.0059
Earth	21792-06-07 05:31 G	9680582.55	9680582.73	9680582.95	0.0089	0.0058 *
Venus	21792-10-24 17:02 G	9680722.03	9680722.21	9680722.42	0.0089	0.0041
Venus	21793-06-07 06:00 G	9680947.61	9680947.75	9680947.93	0.0089	0.0061
Earth	21793-06-09 18:14 G	9680950.08	9680950.26	9680950.47	0.0089	0.0059
Moon	21793-06-09 20:24 G	9680950.18	9680950.35	9680950.56	0.0089	0.0059 *
Venus	21794-01-18 19:40 G	9681173.23	9681173.32	9681173.41	0.0089	0.0080
Moon	21794-06-12 03:50 G	9681317.48	9681317.66	9681317.85	0.0089	0.0061
Earth	21794-06-12 06:57 G	9681317.62	9681317.79	9681318.00	0.0089	0.0061 *
Earth	21795-06-14 19:40 G	9681685.14	9681685.32	9681685.52	0.0089	0.0061
Moon	21795-06-14 23:02 G	9681685.29	9681685.46	9681685.66	0.0089	0.0061 *
Moon	21796-06-16 04:48 G	9682052.53	9682052.70	9682052.90	0.0089	0.0063
Earth	21796-06-16 08:38 G	9682052.68	9682052.86	9682053.05	0.0089	0.0062 *
Earth	21797-06-18 21:21 G	9682420.22	9682420.39	9682420.58	0.0089	0.0064
Moon	21797-06-19 00:14 G	9682420.34	9682420.51	9682420.71	0.0089	0.0063 *
Moon	21798-06-21 07:40 G	9682787.67	9682787.82	9682788.02	0.0089	0.0064
Earth	21798-06-21 10:19 G	9682787.76	9682787.93	9682788.12	0.0089	0.0064 *
Mercury	21798-10-25 08:24 G	9682913.80	9682913.85	9682913.93	0.0089	0.0082
Mercury	21799-01-21 11:02 G	9683001.88	9683001.96	9683002.06	0.0089	0.0073
Mercury	21799-04-19 13:40 G	9683089.96	9683090.07	9683090.19	0.0089	0.0064
Earth	21799-06-23 23:02 G	9683155.30	9683155.46	9683155.65	0.0089	0.0065
Moon	21799-06-24 00:57 G	9683155.36	9683155.54	9683155.72	0.0089	0.0066 *

Mercury	21799-07-16 16:19 G	9683178.05	9683178.18	9683178.31	0.0089	0.0056
Mercury	21799-10-12 18:43 G	9683266.15	9683266.28	9683266.43	0.0089	0.0047
Mercury	21800-01-08 21:21 G	9683354.24	9683354.39	9683354.55	0.0089	0.0038
Mercury	21800-04-07 00:00 G	9683442.34	9683442.50	9683442.66	0.0089	0.0029
Earth	21800-06-26 11:31 G	9683522.84	9683522.98	9683523.19	0.0089	0.0067
Moon	21800-06-26 11:45 G	9683522.85	9683522.99	9683523.19	0.0089	0.0067 *
Mercury	21800-07-04 02:24 G	9683530.44	9683530.60	9683530.77	0.0089	0.0021
Mercury	21800-09-30 05:02 G	9683618.54	9683618.71	9683618.87	0.0089	0.0012
Mercury	21800-12-27 07:26 G	9683706.65	9683706.81	9683706.98	0.0089	0.0004
Mercury	21801-03-25 09:50 G	9683794.75	9683794.91	9683795.08	0.0089	0.0006
Mercury	21801-06-21 12:14 G	9683882.85	9683883.01	9683883.18	0.0089	0.0014
Moon	21801-06-28 23:31 G	9683890.34	9683890.48	9683890.69	0.0089	0.0068
Earth	21801-06-29 00:43 G	9683890.38	9683890.53	9683890.72	0.0089	0.0067 *
Mercury	21801-09-17 14:38 G	9683970.96	9683971.11	9683971.28	0.0089	0.0023
Mercury	21801-12-14 17:16 G	9684059.07	9684059.22	9684059.37	0.0089	0.0031
Mercury	21802-03-12 19:26 G	9684147.17	9684147.31	9684147.47	0.0089	0.0039
Mercury	21802-06-08 21:50 G	9684235.28	9684235.41	9684235.56	0.0089	0.0048
Earth	21802-07-01 14:09 G	9684257.92	9684258.09	9684258.26	0.0089	0.0067
Moon	21802-07-01 15:36 G	9684258.01	9684258.15	9684258.35	0.0089	0.0066 *
Mercury	21802-09-05 00:28 G	9684323.39	9684323.52	9684323.65	0.0089	0.0056
Mercury	21802-12-02 02:24 G	9684411.51	9684411.60	9684411.73	0.0089	0.0065
Mercury	21803-02-28 05:02 G	9684499.62	9684499.71	9684499.81	0.0089	0.0072
Mercury	21803-05-27 07:26 G	9684587.75	9684587.81	9684587.88	0.0089	0.0081
Moon	21803-07-03 23:02 G	9684625.31	9684625.46	9684625.66	0.0089	0.0068
Earth	21803-07-04 02:24 G	9684625.45	9684625.60	9684625.79	0.0089	0.0067 *
Mercury	21803-08-23 09:50 G	9684675.90	9684675.91	9684675.93	0.0089	0.0089
Earth	21804-07-05 15:21 G	9684992.99	9684993.14	9684993.33	0.0089	0.0068
Moon	21804-07-05 18:57 G	9684993.12	9684993.29	9684993.47	0.0089	0.0066 *
Moon	21805-07-08 00:28 G	9685360.38	9685360.52	9685360.71	0.0089	0.0070
Earth	21805-07-08 04:33 G	9685360.53	9685360.69	9685360.87	0.0089	0.0068 *

Earth	21806-07-10 17:16 G	9685728.07	9685728.22	9685728.41	0.0089	0.0068
Moon	21806-07-10 20:09 G	9685728.20	9685728.34	9685728.55	0.0089	0.0067 *
Moon	21807-07-13 03:50 G	9686095.52	9686095.66	9686095.83	0.0089	0.0070
Earth	21807-07-13 06:28 G	9686095.62	9686095.77	9686095.96	0.0089	0.0068 *
Earth	21808-07-14 19:26 G	9686463.16	9686463.31	9686463.50	0.0089	0.0068
Moon	21808-07-14 21:36 G	9686463.22	9686463.40	9686463.59	0.0089	0.0065 *
Earth	21809-07-17 09:07 G	9686830.71	9686830.88	9686831.05	0.0089	0.0067
Moon	21809-07-17 08:52 G	9686830.72	9686830.87	9686831.03	0.0089	0.0069 *
Moon	21810-07-19 21:21 G	9687198.23	9687198.39	9687198.60	0.0089	0.0065
Earth	21810-07-19 22:04 G	9687198.26	9687198.42	9687198.61	0.0089	0.0067 *
Earth	21811-07-22 10:48 G	9687565.80	9687565.95	9687566.15	0.0089	0.0067
Moon	21811-07-22 13:12 G	9687565.90	9687566.05	9687566.21	0.0089	0.0069 *
Moon	21812-07-23 21:21 G	9687933.22	9687933.39	9687933.59	0.0089	0.0064
Earth	21812-07-24 00:14 G	9687933.36	9687933.51	9687933.71	0.0089	0.0066 *
Earth	21813-07-26 13:26 G	9688300.90	9688301.06	9688301.25	0.0089	0.0065
Moon	21813-07-26 16:19 G	9688301.04	9688301.18	9688301.37	0.0089	0.0069 *
Moon	21814-07-28 23:02 G	9688668.27	9688668.46	9688668.65	0.0089	0.0061
Earth	21814-07-29 02:09 G	9688668.44	9688668.59	9688668.80	0.0089	0.0065 *
Earth	21815-07-31 15:07 G	9689035.98	9689036.13	9689036.34	0.0090	0.0064
Moon	21815-07-31 18:57 G	9689036.12	9689036.29	9689036.47	0.0090	0.0066 *
Moon	21816-08-02 01:40 G	9689403.40	9689403.57	9689403.78	0.0090	0.0059
Earth	21816-08-02 04:19 G	9689403.53	9689403.68	9689403.90	0.0090	0.0063 *
Earth	21817-08-04 18:00 G	9689771.07	9689771.25	9689771.44	0.0090	0.0061
Moon	21817-08-04 19:40 G	9689771.16	9689771.32	9689771.52	0.0090	0.0065 *
Moon	21818-08-07 06:28 G	9690138.59	9690138.77	9690138.97	0.0090	0.0057
Earth	21818-08-07 06:57 G	9690138.61	9690138.79	9690139.00	0.0090	0.0060 *
Earth	21819-08-09 19:55 G	9690506.15	9690506.33	9690506.54	0.0090	0.0059
Moon	21819-08-09 20:09 G	9690506.15	9690506.34	9690506.54	0.0090	0.0062 *
Earth	21820-08-11 08:52 G	9690873.70	9690873.87	9690874.10	0.0090	0.0058
Moon	21820-08-11 10:48 G	9690873.76	9690873.95	9690874.16	0.0090	0.0054 *

Moon	21821-08-13 19:55 G	9691241.14	9691241.33	9691241.54	0.0090	0.0059
Earth	21821-08-13 22:33 G	9691241.25	9691241.44	9691241.66	0.0090	0.0056 *
Earth	21822-08-16 11:31 G	9691608.79	9691608.98	9691609.20	0.0090	0.0055
Moon	21822-08-16 14:24 G	9691608.91	9691609.10	9691609.33	0.0090	0.0051 *
Moon	21823-08-18 21:07 G	9691976.20	9691976.38	9691976.60	0.0090	0.0057
Earth	21823-08-19 00:57 G	9691976.35	9691976.54	9691976.76	0.0090	0.0053 *
Earth	21824-08-20 14:24 G	9692343.89	9692344.10	9692344.31	0.0090	0.0051
Moon	21824-08-20 17:31 G	9692344.02	9692344.23	9692344.47	0.0090	0.0047 *
Moon	21825-08-23 00:00 G	9692711.32	9692711.50	9692711.72	0.0090	0.0054
Earth	21825-08-23 03:36 G	9692711.44	9692711.65	9692711.87	0.0090	0.0049 *
Earth	21826-08-25 16:04 G	9693078.97	9693079.17	9693079.41	0.0090	0.0048
Moon	21826-08-25 18:43 G	9693079.06	9693079.28	9693079.52	0.0090	0.0043 *
Moon	21827-08-28 04:04 G	9693446.48	9693446.67	9693446.90	0.0090	0.0050
Earth	21827-08-28 05:02 G	9693446.51	9693446.71	9693446.96	0.0090	0.0046 *
Earth	21828-08-29 18:00 G	9693814.05	9693814.25	9693814.50	0.0090	0.0044
Moon	21828-08-29 18:43 G	9693814.05	9693814.28	9693814.53	0.0090	0.0039 *
Earth	21829-09-01 07:26 G	9694181.58	9694181.81	9694182.04	0.0090	0.0041
Moon	21829-09-01 08:24 G	9694181.65	9694181.85	9694182.08	0.0090	0.0046 *
Moon	21830-09-03 17:31 G	9694549.00	9694549.23	9694549.49	0.0090	0.0035
Earth	21830-09-03 20:09 G	9694549.11	9694549.34	9694549.58	0.0090	0.0039 *
Earth	21831-09-06 08:52 G	9694916.64	9694916.87	9694917.12	0.0090	0.0037
Moon	21831-09-06 11:31 G	9694916.77	9694916.98	9694917.22	0.0090	0.0042 *
Moon	21832-09-07 18:14 G	9695284.02	9695284.26	9695284.51	0.0089	0.0030
Earth	21832-09-07 21:50 G	9695284.19	9695284.41	9695284.66	0.0089	0.0035 *
Earth	21833-09-10 10:48 G	9695651.72	9695651.95	9695652.20	0.0089	0.0032
Moon	21833-09-10 14:09 G	9695651.86	9695652.09	9695652.34	0.0089	0.0037 *
Moon	21834-09-12 20:38 G	9696019.11	9696019.36	9696019.60	0.0089	0.0025
Earth	21834-09-12 23:45 G	9696019.25	9696019.49	9696019.74	0.0089	0.0030 *
Earth	21835-09-15 12:28 G	9696386.79	9696387.02	9696387.28	0.0089	0.0027
Moon	21835-09-15 15:07 G	9696386.89	9696387.13	9696387.38	0.0089	0.0032 *

Moon	21836-09-17 00:14 G	9696754.27	9696754.51	9696754.76	0.0089	0.0021
Earth	21836-09-17 01:26 G	9696754.32	9696754.56	9696754.82	0.0089	0.0025 *
Earth	21837-09-19 14:09 G	9697121.85	9697122.09	9697122.35	0.0089	0.0022
Moon	21837-09-19 14:52 G	9697121.87	9697122.12	9697122.39	0.0089	0.0027 *
Earth	21838-09-22 02:52 G	9697489.37	9697489.62	9697489.88	0.0089	0.0020
Moon	21838-09-22 03:50 G	9697489.42	9697489.66	9697489.92	0.0089	0.0015 *
Moon	21839-09-24 13:12 G	9697856.80	9697857.05	9697857.32	0.0089	0.0021
Earth	21839-09-24 15:36 G	9697856.90	9697857.15	9697857.40	0.0089	0.0017 *
Earth	21840-09-26 03:50 G	9698224.42	9698224.66	9698224.92	0.0089	0.0015
Moon	21840-09-26 06:43 G	9698224.53	9698224.78	9698225.03	0.0089	0.0010 *
Moon	21841-09-28 12:43 G	9698591.78	9698592.03	9698592.29	0.0089	0.0017
Earth	21841-09-28 16:33 G	9698591.93	9698592.19	9698592.44	0.0089	0.0012 *
Mars	21841-12-19 23:16 G	9698674.39	9698674.47	9698674.63	0.0089	0.0082
Earth	21842-10-01 04:33 G	9698959.44	9698959.69	9698959.96	0.0089	0.0010
Moon	21842-10-01 08:09 G	9698959.59	9698959.84	9698960.10	0.0089	0.0005 *
Moon	21843-10-03 13:40 G	9699326.82	9699327.07	9699327.33	0.0089	0.0011
Earth	21843-10-03 17:16 G	9699326.96	9699327.22	9699327.48	0.0089	0.0006 *
Mars	21843-11-13 17:16 G	9699367.93	9699368.22	9699368.51	0.0089	0.0008
Earth	21844-10-05 05:31 G	9699694.47	9699694.73	9699694.99	0.0089	0.0004
Moon	21844-10-05 08:09 G	9699694.57	9699694.84	9699695.10	0.0089	0.0001 *
Mars	21845-10-07 11:02 G	9700061.78	9700061.96	9700062.17	0.0089	0.0067
Moon	21845-10-07 16:19 G	9700061.93	9700062.18	9700062.43	0.0089	0.0005 *
Earth	21845-10-07 17:45 G	9700061.99	9700062.24	9700062.50	0.0089	0.0002 *
Earth	21846-10-10 06:00 G	9700429.50	9700429.75	9700430.01	0.0089	0.0002
Moon	21846-10-10 06:57 G	9700429.52	9700429.79	9700430.05	0.0089	0.0006 *
Earth	21847-10-12 18:28 G	9700797.01	9700797.27	9700797.53	0.0089	0.0004
Moon	21847-10-12 19:26 G	9700797.06	9700797.31	9700797.56	0.0089	0.0001 *
Moon	21848-10-14 04:48 G	9701164.44	9701164.70	9701164.97	0.0089	0.0011
Earth	21848-10-14 06:43 G	9701164.53	9701164.78	9701165.04	0.0089	0.0007 *
Earth	21849-10-16 18:43 G	9701532.03	9701532.28	9701532.54	0.0089	0.0010

Moon	21849-10-16 21:21 G	9701532.14	9701532.39	9701532.65	0.0089	0.0006 *
Moon	21850-10-19 03:21 G	9701899.39	9701899.64	9701899.90	0.0089	0.0017
Earth	21850-10-19 06:57 G	9701899.54	9701899.79	9701900.05	0.0089	0.0012 *
Earth	21851-10-21 18:43 G	9702267.04	9702267.28	9702267.54	0.0089	0.0015
Moon	21851-10-21 22:19 G	9702267.18	9702267.43	9702267.69	0.0089	0.0011 *
Moon	21852-10-23 03:21 G	9702634.40	9702634.64	9702634.89	0.0089	0.0021
Earth	21852-10-23 06:57 G	9702634.54	9702634.79	9702635.04	0.0089	0.0017 *
Earth	21853-10-25 18:28 G	9703002.03	9703002.27	9703002.53	0.0089	0.0020
Moon	21853-10-25 21:07 G	9703002.13	9703002.38	9703002.65	0.0089	0.0016 *
Moon	21854-10-28 04:19 G	9703369.46	9703369.68	9703369.94	0.0089	0.0026
Earth	21854-10-28 06:28 G	9703369.52	9703369.77	9703370.02	0.0089	0.0022 *
Earth	21855-10-30 18:00 G	9703737.01	9703737.25	9703737.51	0.0089	0.0025
Moon	21855-10-30 18:43 G	9703737.04	9703737.28	9703737.55	0.0089	0.0022 *
Earth	21856-11-01 05:45 G	9704104.50	9704104.74	9704104.99	0.0089	0.0027
Moon	21856-11-01 06:43 G	9704104.56	9704104.78	9704105.02	0.0089	0.0031 *
Moon	21857-11-03 15:50 G	9704471.90	9704472.16	9704472.41	0.0089	0.0026
Earth	21857-11-03 17:16 G	9704471.99	9704472.22	9704472.47	0.0089	0.0030 *
Earth	21858-11-06 05:02 G	9704839.48	9704839.71	9704839.96	0.0089	0.0032
Moon	21858-11-06 07:55 G	9704839.60	9704839.83	9704840.06	0.0089	0.0035 *
Moon	21859-11-08 12:57 G	9705206.82	9705207.04	9705207.30	0.0089	0.0031
Earth	21859-11-08 16:33 G	9705206.97	9705207.19	9705207.45	0.0089	0.0035 *
Earth	21860-11-10 04:04 G	9705574.46	9705574.67	9705574.92	0.0089	0.0037
Moon	21860-11-10 07:40 G	9705574.60	9705574.82	9705575.06	0.0089	0.0040 *
Moon	21861-11-12 12:28 G	9705941.80	9705942.02	9705942.26	0.0089	0.0036
Earth	21861-11-12 15:50 G	9705941.95	9705942.16	9705942.41	0.0089	0.0039 *
Earth	21862-11-15 03:21 G	9706309.42	9706309.64	9706309.88	0.0089	0.0041
Moon	21862-11-15 06:00 G	9706309.53	9706309.75	9706309.98	0.0089	0.0044 *
Moon	21863-11-17 12:57 G	9706676.83	9706677.04	9706677.28	0.0089	0.0041
Earth	21863-11-17 14:52 G	9706676.90	9706677.12	9706677.35	0.0089	0.0043 *
Earth	21864-11-19 02:09 G	9707044.38	9707044.59	9707044.82	0.0089	0.0045

Moon	21864-11-19 02:38 G	9707044.40	9707044.61	9707044.85	0.0089	0.0048	*
Earth	21865-11-21 13:26 G	9707411.84	9707412.06	9707412.28	0.0089	0.0047	
Moon	21865-11-21 13:55 G	9707411.89	9707412.08	9707412.32	0.0089	0.0045	*
Moon	21866-11-23 22:19 G	9707779.23	9707779.43	9707779.66	0.0089	0.0052	
Earth	21866-11-24 00:28 G	9707779.31	9707779.52	9707779.74	0.0089	0.0049	*
Earth	21867-11-26 11:16 G	9708146.78	9708146.97	9708147.20	0.0089	0.0051	
Moon	21867-11-26 13:55 G	9708146.89	9708147.08	9708147.31	0.0089	0.0049	*
Moon	21868-11-27 18:43 G	9708514.10	9708514.28	9708514.50	0.0089	0.0056	
Earth	21868-11-27 22:19 G	9708514.24	9708514.43	9708514.66	0.0089	0.0053	*
Earth	21869-11-30 09:07 G	9708881.70	9708881.88	9708882.11	0.0089	0.0055	
Moon	21869-11-30 13:12 G	9708881.84	9708882.05	9708882.26	0.0089	0.0052	*
Venus	21870-08-16 23:02 G	9709141.33	9709141.46	9709141.60	0.0089	0.0070	
Moon	21870-12-02 17:16 G	9709249.03	9709249.22	9709249.41	0.0088	0.0058	
Earth	21870-12-02 20:24 G	9709249.17	9709249.35	9709249.56	0.0088	0.0056	*
Venus	21871-03-30 11:45 G	9709366.82	9709366.99	9709367.18	0.0088	0.0051	
Venus	21871-11-11 00:43 G	9709592.34	9709592.53	9709592.75	0.0088	0.0031	
Earth	21871-12-05 07:12 G	9709616.63	9709616.80	9709617.02	0.0088	0.0058	
Moon	21871-12-05 09:36 G	9709616.71	9709616.90	9709617.12	0.0088	0.0055	*
Venus	21872-06-23 13:40 G	9709817.86	9709818.07	9709818.30	0.0088	0.0011	
Moon	21872-12-06 16:48 G	9709984.04	9709984.20	9709984.40	0.0088	0.0061	
Earth	21872-12-06 18:28 G	9709984.09	9709984.27	9709984.47	0.0088	0.0059	*
Venus	21873-02-04 02:38 G	9710043.39	9710043.61	9710043.83	0.0088	0.0009	
Venus	21873-09-17 15:36 G	9710268.95	9710269.15	9710269.36	0.0088	0.0028	
Earth	21873-12-09 05:31 G	9710351.55	9710351.73	9710351.92	0.0088	0.0060	
Moon	21873-12-09 05:45 G	9710351.55	9710351.74	9710351.95	0.0088	0.0058	*
Venus	21874-05-01 04:33 G	9710494.51	9710494.69	9710494.88	0.0088	0.0048	
Earth	21874-12-11 15:50 G	9710719.00	9710719.16	9710719.37	0.0088	0.0062	
Moon	21874-12-11 17:31 G	9710719.07	9710719.23	9710719.42	0.0088	0.0064	*
Venus	21874-12-12 17:02 G	9710720.09	9710720.21	9710720.37	0.0088	0.0068	
Venus	21875-07-26 05:31 G	9710945.72	9710945.73	9710945.80	0.0088	0.0088	

Moon	21875-12-14 00:43 G	9711086.37	9711086.53	9711086.75	0.0088	0.0061
Earth	21875-12-14 02:52 G	9711086.46	9711086.62	9711086.83	0.0088	0.0063 *
Earth	21876-12-15 13:26 G	9711453.91	9711454.06	9711454.26	0.0088	0.0064
Moon	21876-12-15 16:19 G	9711454.04	9711454.18	9711454.38	0.0088	0.0066 *
Moon	21877-12-17 20:52 G	9711821.20	9711821.37	9711821.56	0.0088	0.0062
Earth	21877-12-18 00:14 G	9711821.35	9711821.51	9711821.71	0.0088	0.0064 *
Earth	21878-12-20 10:33 G	9712188.79	9712188.94	9712189.14	0.0088	0.0066
Moon	21878-12-20 14:09 G	9712188.94	9712189.09	9712189.28	0.0088	0.0066 *
Mercury	21879-10-31 19:55 G	9712504.30	9712504.33	9712504.38	0.0088	0.0084
Moon	21879-12-22 18:00 G	9712556.10	9712556.25	9712556.44	0.0088	0.0065
Earth	21879-12-22 21:50 G	9712556.24	9712556.41	9712556.58	0.0088	0.0066 *
Mercury	21880-01-27 21:50 G	9712592.34	9712592.41	9712592.48	0.0088	0.0077
Mercury	21880-04-24 23:31 G	9712680.40	9712680.48	9712680.58	0.0088	0.0070
Mercury	21880-07-22 01:12 G	9712768.46	9712768.55	9712768.66	0.0088	0.0063
Mercury	21880-10-18 02:52 G	9712856.52	9712856.62	9712856.75	0.0088	0.0056
Earth	21880-12-24 07:55 G	9712923.68	9712923.83	9712924.01	0.0088	0.0066
Moon	21880-12-24 09:36 G	9712923.77	9712923.90	9712924.10	0.0088	0.0069 *
Mercury	21881-01-14 05:02 G	9712944.58	9712944.71	9712944.83	0.0088	0.0048
Mercury	21881-04-12 06:43 G	9713032.65	9713032.78	9713032.91	0.0088	0.0040
Mercury	21881-07-09 08:24 G	9713120.72	9713120.85	9713121.00	0.0088	0.0033
Mercury	21881-10-05 10:19 G	9713208.79	9713208.93	9713209.08	0.0088	0.0026
Moon	21881-12-26 16:48 G	9713291.06	9713291.20	9713291.39	0.0088	0.0067
Earth	21881-12-26 18:00 G	9713291.11	9713291.25	9713291.45	0.0088	0.0068 *
Mercury	21882-01-01 12:00 G	9713296.86	9713297.00	9713297.15	0.0088	0.0019
Mercury	21882-03-30 13:55 G	9713384.93	9713385.08	9713385.23	0.0088	0.0011
Mercury	21882-06-26 15:50 G	9713473.01	9713473.16	9713473.31	0.0088	0.0003
Mercury	21882-09-22 17:31 G	9713561.09	9713561.23	9713561.39	0.0088	0.0006
Mercury	21882-12-19 19:26 G	9713649.16	9713649.31	9713649.46	0.0088	0.0012
Earth	21882-12-29 04:48 G	9713658.55	9713658.70	9713658.88	0.0088	0.0067
Moon	21882-12-29 04:48 G	9713658.55	9713658.70	9713658.88	0.0088	0.0069 *



Mercury	21883-03-17 21:21 G	9713737.24	9713737.39	9713737.54	0.0088	0.0019
Mercury	21883-06-13 23:02 G	9713825.32	9713825.46	9713825.61	0.0088	0.0027
Mercury	21883-09-10 01:12 G	9713913.41	9713913.55	9713913.69	0.0088	0.0035
Mercury	21883-12-07 02:52 G	9714001.49	9714001.62	9714001.76	0.0088	0.0042
Earth	21883-12-31 15:50 G	9714025.99	9714026.16	9714026.32	0.0088	0.0068
Moon	21883-12-31 16:48 G	9714026.06	9714026.20	9714026.39	0.0088	0.0066 *
Mercury	21884-03-04 04:33 G	9714089.58	9714089.69	9714089.83	0.0088	0.0050
Mercury	21884-05-31 06:43 G	9714177.67	9714177.78	9714177.90	0.0088	0.0057
Mercury	21884-08-27 08:24 G	9714265.76	9714265.85	9714265.97	0.0088	0.0066
Mercury	21884-11-23 10:19 G	9714353.86	9714353.93	9714354.03	0.0088	0.0073
Moon	21885-01-01 23:16 G	9714393.33	9714393.47	9714393.66	0.0088	0.0069
Earth	21885-01-02 01:40 G	9714393.43	9714393.57	9714393.75	0.0088	0.0068 *
Mercury	21885-02-19 12:28 G	9714441.97	9714442.02	9714442.09	0.0088	0.0081
Earth	21886-01-04 12:14 G	9714760.87	9714761.01	9714761.19	0.0088	0.0068
Moon	21886-01-04 15:36 G	9714761.00	9714761.15	9714761.33	0.0088	0.0067 *
Moon	21887-01-06 19:12 G	9715128.17	9715128.30	9715128.48	0.0088	0.0070
Earth	21887-01-06 22:48 G	9715128.31	9715128.45	9715128.63	0.0088	0.0068 *
Earth	21888-01-09 09:21 G	9715495.74	9715495.89	9715496.06	0.0088	0.0068
Moon	21888-01-09 12:28 G	9715495.88	9715496.02	9715496.21	0.0088	0.0068 *
Moon	21889-01-10 16:48 G	9715863.06	9715863.20	9715863.37	0.0088	0.0069
Earth	21889-01-10 19:40 G	9715863.18	9715863.32	9715863.50	0.0088	0.0068 *
Earth	21890-01-13 05:45 G	9716230.60	9716230.74	9716230.93	0.0088	0.0068
Moon	21890-01-13 07:26 G	9716230.67	9716230.81	9716231.01	0.0088	0.0067 *
Moon	21891-01-15 15:36 G	9716598.01	9716598.15	9716598.32	0.0088	0.0068
Earth	21891-01-15 16:04 G	9716598.04	9716598.17	9716598.36	0.0088	0.0068 *
Moon	21892-01-18 02:09 G	9716965.44	9716965.59	9716965.78	0.0088	0.0066
Earth	21892-01-18 02:38 G	9716965.46	9716965.61	9716965.79	0.0088	0.0067 *
Earth	21893-01-19 12:28 G	9717332.88	9717333.02	9717333.22	0.0088	0.0067
Moon	21893-01-19 14:38 G	9717332.98	9717333.11	9717333.29	0.0088	0.0068 *
Moon	21894-01-21 20:38 G	9717700.20	9717700.36	9717700.55	0.0088	0.0065

Earth	21894-01-21 23:02 G	9717700.31	9717700.46	9717700.65	0.0088	0.0066 *
Earth	21895-01-24 09:36 G	9718067.74	9718067.90	9718068.08	0.0088	0.0065
Moon	21895-01-24 12:43 G	9718067.89	9718068.03	9718068.22	0.0088	0.0066 *
Moon	21896-01-26 16:33 G	9718435.01	9718435.19	9718435.37	0.0088	0.0063
Earth	21896-01-26 19:26 G	9718435.17	9718435.31	9718435.51	0.0088	0.0065 *
Earth	21897-01-28 05:45 G	9718802.59	9718802.74	9718802.94	0.0088	0.0064
Moon	21897-01-28 09:50 G	9718802.73	9718802.91	9718803.09	0.0088	0.0063 *
Moon	21898-01-30 13:26 G	9719169.91	9719170.06	9719170.26	0.0088	0.0063
Earth	21898-01-30 16:19 G	9719170.02	9719170.18	9719170.38	0.0088	0.0063 *
Jupiter	21899-01-18 12:57 G	9719522.59	9719523.04	9719523.52	0.0088	0.0050
Earth	21899-02-02 02:38 G	9719537.45	9719537.61	9719537.81	0.0088	0.0062
Moon	21899-02-02 04:04 G	9719537.50	9719537.67	9719537.88	0.0088	0.0062 *
Moon	21900-02-04 12:28 G	9719904.87	9719905.02	9719905.22	0.0088	0.0061
Earth	21900-02-04 12:57 G	9719904.88	9719905.04	9719905.25	0.0088	0.0061 *
Moon	21901-02-06 22:48 G	9720272.26	9720272.45	9720272.65	0.0088	0.0059
Earth	21901-02-06 23:45 G	9720272.31	9720272.49	9720272.68	0.0088	0.0059 *
Earth	21902-02-09 09:50 G	9720639.73	9720639.91	9720640.12	0.0088	0.0058
Moon	21902-02-09 12:00 G	9720639.83	9720640.00	9720640.21	0.0088	0.0058 *
Moon	21903-02-11 17:16 G	9721007.04	9721007.22	9721007.44	0.0088	0.0057
Earth	21903-02-11 20:09 G	9721007.16	9721007.34	9721007.56	0.0088	0.0057 *
Earth	21904-02-14 06:28 G	9721374.58	9721374.77	9721374.98	0.0088	0.0055
Moon	21904-02-14 10:19 G	9721374.73	9721374.93	9721375.13	0.0088	0.0055 *
Moon	21905-02-15 13:26 G	9721741.87	9721742.06	9721742.27	0.0088	0.0054
Earth	21905-02-15 16:33 G	9721742.01	9721742.19	9721742.42	0.0088	0.0054 *
Earth	21906-02-18 02:52 G	9722109.43	9722109.62	9722109.85	0.0088	0.0052
Moon	21906-02-18 06:00 G	9722109.57	9722109.75	9722109.98	0.0088	0.0053 *
Moon	21907-02-20 11:02 G	9722476.77	9722476.96	9722477.18	0.0088	0.0050
Earth	21907-02-20 13:26 G	9722476.86	9722477.06	9722477.28	0.0088	0.0050 *
Earth	21908-02-23 00:00 G	9722844.29	9722844.50	9722844.71	0.0088	0.0048
Moon	21908-02-23 00:43 G	9722844.32	9722844.53	9722844.76	0.0088	0.0048 *

Earth	21909-02-24 09:50 G	9723211.71	9723211.91	9723212.15	0.0088	0.0047
Moon	21909-02-24 09:50 G	9723211.71	9723211.91	9723212.14	0.0088	0.0046 *
Moon	21910-02-26 18:57 G	9723579.08	9723579.29	9723579.53	0.0088	0.0045
Earth	21910-02-26 20:09 G	9723579.15	9723579.34	9723579.59	0.0088	0.0045 *
Earth	21911-03-01 06:43 G	9723946.58	9723946.78	9723947.03	0.0088	0.0043
Moon	21911-03-01 09:36 G	9723946.69	9723946.90	9723947.13	0.0088	0.0043 *
Moon	21912-03-02 14:24 G	9724313.88	9724314.10	9724314.34	0.0088	0.0041
Earth	21912-03-02 17:16 G	9724314.01	9724314.22	9724314.47	0.0088	0.0041 *
Earth	21913-03-05 04:19 G	9724681.45	9724681.68	9724681.91	0.0088	0.0038
Moon	21913-03-05 07:26 G	9724681.60	9724681.81	9724682.07	0.0088	0.0038 *
Moon	21914-03-07 11:31 G	9725048.75	9725048.98	9725049.22	0.0088	0.0036
Earth	21914-03-07 14:38 G	9725048.89	9725049.11	9725049.36	0.0088	0.0036 *
Earth	21915-03-10 00:57 G	9725416.32	9725416.54	9725416.79	0.0088	0.0034
Moon	21915-03-10 04:04 G	9725416.44	9725416.67	9725416.93	0.0088	0.0033 *
Moon	21916-03-11 09:36 G	9725783.68	9725783.90	9725784.14	0.0088	0.0033
Earth	21916-03-11 11:31 G	9725783.76	9725783.98	9725784.24	0.0088	0.0032 *
Earth	21917-03-13 22:19 G	9726151.19	9726151.43	9726151.68	0.0088	0.0029
Moon	21917-03-13 22:33 G	9726151.20	9726151.44	9726151.71	0.0088	0.0029 *
Earth	21918-03-16 08:38 G	9726518.63	9726518.86	9726519.12	0.0088	0.0027
Moon	21918-03-16 09:07 G	9726518.65	9726518.88	9726519.12	0.0088	0.0028 *
Moon	21919-03-18 17:45 G	9726885.99	9726886.24	9726886.50	0.0088	0.0023
Earth	21919-03-18 19:12 G	9726886.07	9726886.30	9726886.57	0.0088	0.0025 *
Earth	21920-03-20 06:00 G	9727253.51	9727253.75	9727254.00	0.0088	0.0022
Moon	21920-03-20 08:38 G	9727253.63	9727253.86	9727254.12	0.0088	0.0023 *
Moon	21921-03-22 13:26 G	9727620.81	9727621.06	9727621.33	0.0088	0.0018
Earth	21921-03-22 16:33 G	9727620.95	9727621.19	9727621.46	0.0088	0.0020 *
Earth	21922-03-25 03:36 G	9727988.40	9727988.65	9727988.91	0.0088	0.0017
Moon	21922-03-25 07:12 G	9727988.56	9727988.80	9727989.06	0.0088	0.0019 *
Moon	21923-03-27 11:16 G	9728355.72	9728355.97	9728356.23	0.0088	0.0014
Earth	21923-03-27 14:24 G	9728355.85	9728356.10	9728356.36	0.0088	0.0015 *

Earth	21924-03-29 01:12 G	9728723.30	9728723.55	9728723.82	0.0088	0.0012
Moon	21924-03-29 04:19 G	9728723.42	9728723.68	9728723.94	0.0088	0.0014 *
Moon	21925-03-31 10:33 G	9729090.70	9729090.94	9729091.20	0.0088	0.0008
Earth	21925-03-31 12:28 G	9729090.76	9729091.02	9729091.28	0.0088	0.0009 *
Mars	21925-10-02 07:55 G	9729275.58	9729275.83	9729276.14	0.0088	0.0051
Earth	21926-04-02 23:31 G	9729458.22	9729458.48	9729458.74	0.0088	0.0007
Moon	21926-04-02 23:45 G	9729458.23	9729458.49	9729458.76	0.0088	0.0008 *
Earth	21927-04-05 10:33 G	9729825.69	9729825.94	9729826.20	0.0088	0.0004
Moon	21927-04-05 11:02 G	9729825.71	9729825.96	9729826.21	0.0088	0.0003 *
Mars	21927-08-29 11:31 G	9729971.67	9729971.98	9729972.30	0.0088	0.0033
Moon	21928-04-06 19:26 G	9730193.05	9730193.31	9730193.58	0.0088	0.0003
Earth	21928-04-06 21:36 G	9730193.14	9730193.40	9730193.66	0.0088	0.0002 *
Earth	21929-04-09 08:38 G	9730560.61	9730560.86	9730561.12	0.0088	0.0002
Moon	21929-04-09 11:45 G	9730560.73	9730560.99	9730561.24	0.0088	0.0003 *
Moon	21930-04-11 16:33 G	9730927.93	9730928.19	9730928.46	0.0088	0.0002
Earth	21930-04-11 19:55 G	9730928.08	9730928.33	9730928.59	0.0088	0.0004 *
Earth	21931-04-14 06:57 G	9731295.53	9731295.79	9731296.05	0.0088	0.0007
Moon	21931-04-14 10:33 G	9731295.69	9731295.94	9731296.21	0.0088	0.0009 *
Moon	21932-04-15 15:21 G	9731662.88	9731663.14	9731663.39	0.0088	0.0008
Earth	21932-04-15 18:14 G	9731663.01	9731663.26	9731663.52	0.0088	0.0009 *
Earth	21933-04-18 05:16 G	9732030.47	9732030.72	9732030.99	0.0088	0.0012
Moon	21933-04-18 08:09 G	9732030.59	9732030.84	9732031.11	0.0088	0.0015 *
Moon	21934-04-20 15:21 G	9732397.89	9732398.14	9732398.39	0.0088	0.0012
Earth	21934-04-20 16:33 G	9732397.95	9732398.19	9732398.46	0.0088	0.0016 *
Moon	21935-04-23 04:19 G	9732765.42	9732765.68	9732765.95	0.0088	0.0019
Earth	21935-04-23 04:04 G	9732765.43	9732765.67	9732765.93	0.0088	0.0018 *
Earth	21936-04-24 15:36 G	9733132.91	9733133.15	9733133.41	0.0088	0.0020
Moon	21936-04-24 16:19 G	9733132.94	9733133.18	9733133.43	0.0088	0.0017 *
Moon	21937-04-27 00:57 G	9733500.30	9733500.54	9733500.81	0.0088	0.0025
Earth	21937-04-27 03:21 G	9733500.40	9733500.64	9733500.90	0.0088	0.0023 *

Earth	21938-04-29 14:52 G	9733867.88	9733868.12	9733868.38	0.0088	0.0025
Moon	21938-04-29 18:14 G	9733868.01	9733868.26	9733868.50	0.0088	0.0023 *
Moon	21939-05-01 23:16 G	9734235.23	9734235.47	9734235.72	0.0088	0.0031
Earth	21939-05-02 02:38 G	9734235.37	9734235.61	9734235.86	0.0088	0.0028 *
Earth	21940-05-03 14:09 G	9734602.86	9734603.09	9734603.35	0.0088	0.0031
Moon	21940-05-03 18:00 G	9734603.02	9734603.25	9734603.51	0.0088	0.0027 *
Moon	21941-05-05 23:02 G	9734970.24	9734970.46	9734970.71	0.0088	0.0036
Earth	21941-05-06 02:09 G	9734970.36	9734970.59	9734970.84	0.0088	0.0033 *
Earth	21942-05-08 13:40 G	9735337.85	9735338.07	9735338.32	0.0088	0.0036
Moon	21942-05-08 16:33 G	9735337.96	9735338.19	9735338.45	0.0088	0.0032 *
Moon	21943-05-11 00:14 G	9735705.30	9735705.51	9735705.74	0.0089	0.0041
Earth	21943-05-11 01:26 G	9735705.35	9735705.56	9735705.81	0.0089	0.0038 *
Moon	21944-05-12 13:40 G	9736072.83	9736073.07	9736073.32	0.0089	0.0037
Earth	21944-05-12 13:26 G	9736072.84	9736073.06	9736073.30	0.0089	0.0040 *
Earth	21945-05-15 01:26 G	9736440.34	9736440.56	9736440.79	0.0089	0.0042
Moon	21945-05-15 01:55 G	9736440.38	9736440.58	9736440.81	0.0089	0.0046 *
Moon	21946-05-17 11:02 G	9736807.73	9736807.96	9736808.21	0.0089	0.0041
Earth	21946-05-17 13:12 G	9736807.84	9736808.05	9736808.29	0.0089	0.0045 *
Earth	21947-05-20 00:57 G	9737175.34	9737175.54	9737175.78	0.0089	0.0047
Moon	21947-05-20 04:04 G	9737175.47	9737175.67	9737175.89	0.0089	0.0050 *
Moon	21948-05-21 09:50 G	9737542.70	9737542.91	9737543.15	0.0089	0.0045
Earth	21948-05-21 13:12 G	9737542.85	9737543.05	9737543.29	0.0089	0.0049 *
Earth	21949-05-24 01:26 G	9737910.37	9737910.56	9737910.79	0.0089	0.0051
Moon	21949-05-24 05:02 G	9737910.53	9737910.71	9737910.94	0.0089	0.0055 *
Moon	21950-05-26 10:48 G	9738277.75	9738277.95	9738278.18	0.0089	0.0049
Earth	21950-05-26 13:40 G	9738277.88	9738278.07	9738278.30	0.0089	0.0053 *
Earth	21951-05-29 02:24 G	9738645.40	9738645.60	9738645.81	0.0089	0.0054
Moon	21951-05-29 04:48 G	9738645.53	9738645.70	9738645.92	0.0089	0.0059 *
Moon	21952-05-30 13:26 G	9739012.86	9739013.06	9739013.26	0.0089	0.0052
Earth	21952-05-30 14:38 G	9739012.92	9739013.11	9739013.32	0.0089	0.0056 *

Venus	21953-05-15 22:04 G	9739363.39	9739363.42	9739363.49	0.0089	0.0086
Earth	21953-06-02 02:52 G	9739380.44	9739380.62	9739380.83	0.0089	0.0058
Moon	21953-06-02 02:52 G	9739380.46	9739380.62	9739380.84	0.0089	0.0062 *
Venus	21953-12-27 11:16 G	9739588.84	9739588.97	9739589.13	0.0089	0.0066
Earth	21954-06-04 15:07 G	9739747.96	9739748.13	9739748.34	0.0089	0.0060
Moon	21954-06-04 15:36 G	9739747.98	9739748.15	9739748.37	0.0089	0.0056 *
Venus	21954-08-10 00:28 G	9739814.34	9739814.52	9739814.72	0.0089	0.0046
Venus	21955-03-23 13:55 G	9740039.87	9740040.08	9740040.29	0.0089	0.0026
Moon	21955-06-07 01:26 G	9740115.39	9740115.56	9740115.75	0.0089	0.0065
Earth	21955-06-07 03:36 G	9740115.48	9740115.65	9740115.85	0.0089	0.0061 *
Venus	21955-11-04 03:07 G	9740265.41	9740265.63	9740265.85	0.0089	0.0006
Earth	21956-06-08 15:50 G	9740483.00	9740483.16	9740483.37	0.0089	0.0063
Moon	21956-06-08 18:43 G	9740483.11	9740483.28	9740483.49	0.0089	0.0059 *
Venus	21956-06-16 15:50 G	9740490.95	9740491.16	9740491.39	0.0089	0.0014
Venus	21957-01-28 04:48 G	9740716.51	9740716.70	9740716.92	0.0089	0.0034
Moon	21957-06-11 01:26 G	9740850.40	9740850.56	9740850.73	0.0089	0.0068
Earth	21957-06-11 04:33 G	9740850.53	9740850.69	9740850.89	0.0089	0.0064 *
Venus	21957-09-10 18:14 G	9740942.09	9740942.26	9740942.44	0.0089	0.0053
Venus	21958-04-24 07:26 G	9741167.69	9741167.81	9741167.94	0.0089	0.0073
Earth	21958-06-13 17:02 G	9741218.05	9741218.21	9741218.40	0.0089	0.0065
Moon	21958-06-13 21:07 G	9741218.19	9741218.38	9741218.57	0.0089	0.0060 *
Moon	21959-06-16 02:09 G	9741585.47	9741585.59	9741585.78	0.0089	0.0071
Earth	21959-06-16 05:45 G	9741585.58	9741585.74	9741585.93	0.0089	0.0066 *
Earth	21960-06-17 18:28 G	9741953.11	9741953.27	9741953.45	0.0089	0.0067
Moon	21960-06-17 21:07 G	9741953.22	9741953.38	9741953.59	0.0089	0.0063 *
Moon	21961-06-20 05:31 G	9742320.61	9742320.73	9742320.89	0.0089	0.0073
Earth	21961-06-20 07:12 G	9742320.65	9742320.80	9742320.98	0.0089	0.0068 *
Earth	21962-06-22 19:55 G	9742688.19	9742688.33	9742688.51	0.0089	0.0070
Moon	21962-06-22 20:24 G	9742688.19	9742688.35	9742688.56	0.0089	0.0066 *
Mercury	21963-04-27 05:16 G	9742996.69	9742996.72	9742996.77	0.0089	0.0086

Earth	21963-06-25 08:38 G	9743055.73	9743055.86	9743056.04	0.0089	0.0070
Moon	21963-06-25 08:52 G	9743055.76	9743055.87	9743056.03	0.0089	0.0075 *
Mercury	21963-07-24 07:55 G	9743084.76	9743084.83	9743084.92	0.0089	0.0077
Mercury	21963-10-20 10:33 G	9743172.84	9743172.94	9743173.06	0.0089	0.0068
Mercury	21964-01-16 13:12 G	9743260.93	9743261.05	9743261.18	0.0089	0.0059
Mercury	21964-04-13 15:50 G	9743349.03	9743349.16	9743349.30	0.0089	0.0051
Moon	21964-06-26 19:40 G	9743423.17	9743423.32	9743423.52	0.0089	0.0066
Earth	21964-06-26 21:36 G	9743423.27	9743423.40	9743423.59	0.0089	0.0071 *
Mercury	21964-07-10 18:14 G	9743437.12	9743437.26	9743437.42	0.0089	0.0042
Mercury	21964-10-06 20:52 G	9743525.22	9743525.37	9743525.53	0.0089	0.0033
Mercury	21965-01-02 23:31 G	9743613.32	9743613.48	9743613.64	0.0089	0.0024
Mercury	21965-04-01 01:55 G	9743701.42	9743701.58	9743701.75	0.0089	0.0016
Mercury	21965-06-28 04:33 G	9743789.53	9743789.69	9743789.86	0.0089	0.0007
Earth	21965-06-29 10:48 G	9743790.82	9743790.95	9743791.12	0.0089	0.0072
Moon	21965-06-29 13:40 G	9743790.95	9743791.07	9743791.21	0.0089	0.0076 *
Mercury	21965-09-24 06:57 G	9743877.63	9743877.79	9743877.96	0.0089	0.0003
Mercury	21965-12-21 09:36 G	9743965.73	9743965.90	9743966.06	0.0089	0.0010
Mercury	21966-03-19 12:00 G	9744053.84	9744054.00	9744054.16	0.0089	0.0019
Mercury	21966-06-15 14:24 G	9744141.95	9744142.10	9744142.26	0.0089	0.0027
Moon	21966-07-01 20:09 G	9744158.20	9744158.34	9744158.54	0.0089	0.0068
Earth	21966-07-01 23:31 G	9744158.36	9744158.48	9744158.66	0.0089	0.0072 *
Mercury	21966-09-11 16:48 G	9744230.05	9744230.20	9744230.36	0.0089	0.0036
Mercury	21966-12-08 19:12 G	9744318.16	9744318.30	9744318.45	0.0089	0.0044
Mercury	21967-03-06 21:36 G	9744406.27	9744406.40	9744406.54	0.0089	0.0053
Mercury	21967-06-02 23:45 G	9744494.39	9744494.49	9744494.62	0.0089	0.0061
Earth	21967-07-04 12:28 G	9744525.89	9744526.02	9744526.19	0.0089	0.0072
Moon	21967-07-04 16:04 G	9744526.07	9744526.17	9744526.33	0.0089	0.0077 *
Mercury	21967-08-30 02:09 G	9744582.50	9744582.59	9744582.71	0.0089	0.0070
Mercury	21967-11-26 04:48 G	9744670.63	9744670.70	9744670.78	0.0089	0.0077
Mercury	21968-02-22 07:12 G	9744758.76	9744758.80	9744758.85	0.0089	0.0086

Moon	21968-07-05 22:04 G	9744893.28	9744893.42	9744893.61	0.0089	0.0069
Earth	21968-07-06 01:40 G	9744893.44	9744893.57	9744893.74	0.0089	0.0073 *
Earth	21969-07-08 14:38 G	9745260.97	9745261.11	9745261.27	0.0089	0.0073
Moon	21969-07-08 17:31 G	9745261.13	9745261.23	9745261.39	0.0089	0.0077 *
Moon	21970-07-11 01:26 G	9745628.43	9745628.56	9745628.75	0.0089	0.0069
Earth	21970-07-11 03:36 G	9745628.52	9745628.65	9745628.81	0.0089	0.0073 *
Earth	21971-07-13 16:19 G	9745996.05	9745996.18	9745996.35	0.0089	0.0073
Moon	21971-07-13 17:16 G	9745996.11	9745996.22	9745996.38	0.0089	0.0077 *
Moon	21972-07-15 05:16 G	9746363.59	9746363.72	9746363.91	0.0089	0.0069
Earth	21972-07-15 05:16 G	9746363.60	9746363.72	9746363.90	0.0089	0.0073 *
Moon	21973-07-17 16:33 G	9746731.08	9746731.19	9746731.36	0.0089	0.0077
Earth	21973-07-17 18:57 G	9746731.14	9746731.29	9746731.45	0.0089	0.0072 *
Earth	21974-07-20 07:40 G	9747098.68	9747098.82	9747098.99	0.0089	0.0072
Moon	21974-07-20 09:50 G	9747098.77	9747098.91	9747099.10	0.0089	0.0068 *
Moon	21975-07-22 17:31 G	9747466.12	9747466.23	9747466.40	0.0089	0.0076
Earth	21975-07-22 21:07 G	9747466.24	9747466.38	9747466.55	0.0089	0.0071 *
Earth	21976-07-24 10:04 G	9747833.79	9747833.92	9747834.10	0.0089	0.0071
Moon	21976-07-24 14:09 G	9747833.92	9747834.09	9747834.27	0.0089	0.0066 *
Moon	21977-07-26 19:55 G	9748201.21	9748201.33	9748201.50	0.0089	0.0074
Earth	21977-07-26 23:31 G	9748201.34	9748201.48	9748201.66	0.0089	0.0070 *
Earth	21978-07-29 12:43 G	9748568.88	9748569.03	9748569.21	0.0089	0.0069
Moon	21978-07-29 16:04 G	9748569.01	9748569.17	9748569.37	0.0089	0.0065 *
Moon	21979-07-31 23:45 G	9748936.36	9748936.49	9748936.66	0.0089	0.0072
Earth	21979-08-01 01:40 G	9748936.42	9748936.57	9748936.76	0.0089	0.0068 *
Earth	21980-08-02 14:52 G	9749303.97	9749304.12	9749304.31	0.0090	0.0067
Moon	21980-08-02 16:19 G	9749304.02	9749304.18	9749304.39	0.0090	0.0064 *
Moon	21981-08-05 03:50 G	9749671.51	9749671.66	9749671.83	0.0090	0.0069
Earth	21981-08-05 03:50 G	9749671.51	9749671.66	9749671.86	0.0090	0.0066 *
Moon	21982-08-07 15:50 G	9750038.97	9750039.16	9750039.37	0.0090	0.0060
Earth	21982-08-07 17:16 G	9750039.05	9750039.22	9750039.41	0.0090	0.0064 *



Earth	21983-08-10 06:00 G	9750406.59	9750406.75	9750406.95	0.0090	0.0063
Moon	21983-08-10 07:55 G	9750406.68	9750406.83	9750407.02	0.0090	0.0066 *
Moon	21984-08-11 16:04 G	9750773.99	9750774.17	9750774.39	0.0090	0.0058
Earth	21984-08-11 19:26 G	9750774.13	9750774.31	9750774.51	0.0090	0.0061 *
Earth	21985-08-14 07:55 G	9751141.67	9751141.83	9751142.05	0.0090	0.0060
Moon	21985-08-14 11:45 G	9751141.82	9751141.99	9751142.19	0.0090	0.0063 *
Moon	21986-08-16 18:00 G	9751509.06	9751509.25	9751509.46	0.0090	0.0055
Earth	21986-08-16 21:21 G	9751509.21	9751509.39	9751509.61	0.0090	0.0058 *
Earth	21987-08-19 10:33 G	9751876.75	9751876.94	9751877.15	0.0090	0.0056
Moon	21987-08-19 13:55 G	9751876.90	9751877.08	9751877.30	0.0090	0.0059 *
Moon	21988-08-20 21:50 G	9752244.20	9752244.41	9752244.61	0.0090	0.0051
Earth	21988-08-21 00:00 G	9752244.30	9752244.50	9752244.71	0.0090	0.0054 *
Earth	21989-08-23 13:12 G	9752611.85	9752612.05	9752612.27	0.0090	0.0052
Moon	21989-08-23 14:52 G	9752611.92	9752612.12	9752612.35	0.0090	0.0054 *
Moon	21990-08-26 01:26 G	9752979.36	9752979.56	9752979.78	0.0090	0.0048
Earth	21990-08-26 02:09 G	9752979.38	9752979.59	9752979.81	0.0090	0.0050 *
Moon	21991-08-28 14:24 G	9753346.88	9753347.10	9753347.33	0.0090	0.0050
Earth	21991-08-28 15:07 G	9753346.93	9753347.13	9753347.36	0.0090	0.0048 *
Earth	21992-08-30 04:04 G	9753714.46	9753714.67	9753714.91	0.0090	0.0046
Moon	21992-08-30 06:00 G	9753714.53	9753714.75	9753714.97	0.0090	0.0044 *
Moon	21993-09-01 13:55 G	9754081.88	9754082.08	9754082.33	0.0090	0.0046
Earth	21993-09-01 16:48 G	9754082.00	9754082.20	9754082.45	0.0090	0.0044 *
Earth	21994-09-04 06:00 G	9754449.53	9754449.75	9754449.99	0.0090	0.0041
Moon	21994-09-04 09:21 G	9754449.67	9754449.89	9754450.13	0.0090	0.0039 *
Moon	21995-09-06 15:21 G	9754816.92	9754817.14	9754817.38	0.0090	0.0040
Earth	21995-09-06 18:43 G	9754817.07	9754817.28	9754817.53	0.0090	0.0039 *
Earth	21996-09-08 07:55 G	9755184.59	9755184.83	9755185.07	0.0090	0.0036
Moon	21996-09-08 11:31 G	9755184.74	9755184.98	9755185.22	0.0090	0.0035 *
Moon	21997-09-10 18:14 G	9755552.03	9755552.26	9755552.49	0.0089	0.0035
Earth	21997-09-10 20:38 G	9755552.13	9755552.36	9755552.61	0.0089	0.0034 *

Earth	21998-09-13 09:36 G	9755919.66	9755919.90	9755920.14	0.0089	0.0031
Moon	21998-09-13 11:45 G	9755919.74	9755919.99	9755920.24	0.0089	0.0031 *
Moon	21999-09-15 21:21 G	9756287.17	9756287.39	9756287.64	0.0089	0.0030
Earth	21999-09-15 22:19 G	9756287.19	9756287.43	9756287.68	0.0089	0.0028 *
Moon	22000-09-17 10:33 G	9756654.69	9756654.94	9756655.21	0.0089	0.0025
Earth	22000-09-17 11:16 G	9756654.73	9756654.97	9756655.22	0.0089	0.0026 *

# 23RD MILLENNIUM CE

This is a list of transits visible from Neptune in the 23rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	22001-09-19 23:45 G		9757022.26	9757022.49	9757022.76	0.0089	0.0024	
Moon	22001-09-20 01:12 G		9757022.32	9757022.55	9757022.80	0.0089	0.0023 *	
Moon	22002-09-22 10:04 G		9757389.67	9757389.92	9757390.19	0.0089	0.0020	
Earth	22002-09-22 12:43 G		9757389.79	9757390.03	9757390.29	0.0089	0.0021 *	
Earth	22003-09-25 01:40 G		9757757.32	9757757.57	9757757.83	0.0089	0.0017	
Moon	22003-09-25 04:48 G		9757757.46	9757757.70	9757757.96	0.0089	0.0018 *	
Moon	22004-09-26 10:33 G		9758124.70	9758124.94	9758125.21	0.0089	0.0016	
Earth	22004-09-26 14:24 G		9758124.85	9758125.10	9758125.36	0.0089	0.0015 *	
Earth	22005-09-29 02:52 G		9758492.36	9758492.62	9758492.88	0.0089	0.0012	
Moon	22005-09-29 06:28 G		9758492.52	9758492.77	9758493.03	0.0089	0.0012 *	
Moon	22006-10-01 12:28 G		9758859.77	9758860.02	9758860.28	0.0089	0.0009	
Earth	22006-10-01 15:07 G		9758859.88	9758860.13	9758860.40	0.0089	0.0010 *	

Mars	22007-06-30 07:12 G	9759131.54	9759131.80	9759132.07	0.0089	0.0034
Earth	22007-10-04 03:36 G	9759227.40	9759227.65	9759227.91	0.0089	0.0006
Moon	22007-10-04 06:14 G	9759227.50	9759227.76	9759228.03	0.0089	0.0005 *
Moon	22008-10-05 15:07 G	9759594.88	9759595.13	9759595.38	0.0089	0.0004
Earth	22008-10-05 16:04 G	9759594.92	9759595.17	9759595.43	0.0089	0.0004 *
Mars	22009-05-24 00:57 G	9759825.28	9759825.54	9759825.80	0.0089	0.0040
Moon	22009-10-08 04:04 G	9759962.40	9759962.67	9759962.94	0.0089	0.0000
Earth	22009-10-08 04:19 G	9759962.43	9759962.68	9759962.94	0.0089	0.0001 *
Earth	22010-10-10 16:33 G	9760329.94	9760330.19	9760330.45	0.0089	0.0003
Moon	22010-10-10 17:45 G	9760329.99	9760330.24	9760330.49	0.0089	0.0001 *
Moon	22011-10-13 02:24 G	9760697.34	9760697.60	9760697.87	0.0089	0.0006
Earth	22011-10-13 05:02 G	9760697.46	9760697.71	9760697.97	0.0089	0.0005 *
Earth	22012-10-14 17:16 G	9761064.96	9761065.22	9761065.48	0.0089	0.0008
Moon	22012-10-14 20:24 G	9761065.10	9761065.35	9761065.60	0.0089	0.0007 *
Moon	22013-10-17 01:55 G	9761432.33	9761432.58	9761432.85	0.0089	0.0013
Earth	22013-10-17 05:31 G	9761432.48	9761432.73	9761432.99	0.0089	0.0011 *
Earth	22014-10-19 17:31 G	9761799.99	9761800.23	9761800.50	0.0089	0.0014
Moon	22014-10-19 21:21 G	9761800.14	9761800.39	9761800.65	0.0089	0.0012 *
Moon	22015-10-22 03:07 G	9762167.39	9762167.63	9762167.88	0.0089	0.0018
Earth	22015-10-22 05:45 G	9762167.50	9762167.74	9762168.00	0.0089	0.0017 *
Earth	22016-10-23 18:00 G	9762535.00	9762535.25	9762535.50	0.0089	0.0020
Moon	22016-10-23 20:24 G	9762535.10	9762535.35	9762535.62	0.0089	0.0017 *
Moon	22017-10-26 04:33 G	9762902.46	9762902.69	9762902.94	0.0089	0.0025
Earth	22017-10-26 05:45 G	9762902.50	9762902.74	9762902.99	0.0089	0.0022 *
Moon	22018-10-28 17:16 G	9763269.97	9763270.22	9763270.49	0.0089	0.0023
Earth	22018-10-28 17:31 G	9763269.99	9763270.23	9763270.48	0.0089	0.0025 *
Earth	22019-10-31 05:02 G	9763637.48	9763637.71	9763637.97	0.0089	0.0028
Moon	22019-10-31 06:14 G	9763637.54	9763637.76	9763638.00	0.0089	0.0030 *
Moon	22020-11-01 14:24 G	9764004.85	9764005.10	9764005.35	0.0089	0.0028
Earth	22020-11-01 17:02 G	9764004.97	9764005.21	9764005.46	0.0089	0.0030 *

Earth	22021-11-04 04:19 G	9764372.46	9764372.68	9764372.94	0.0089	0.0033
Moon	22021-11-04 07:26 G	9764372.59	9764372.81	9764373.06	0.0089	0.0035 *
Moon	22022-11-06 12:43 G	9764739.80	9764740.03	9764740.28	0.0089	0.0032
Earth	22022-11-06 16:19 G	9764739.95	9764740.18	9764740.42	0.0089	0.0035 *
Earth	22023-11-09 03:36 G	9765107.43	9765107.65	9765107.90	0.0089	0.0038
Moon	22023-11-09 07:26 G	9765107.58	9765107.81	9765108.04	0.0089	0.0040 *
Moon	22024-11-10 12:14 G	9765474.80	9765475.01	9765475.26	0.0089	0.0038
Earth	22024-11-10 15:21 G	9765474.92	9765475.14	9765475.38	0.0089	0.0040 *
Earth	22025-11-13 02:24 G	9765842.40	9765842.60	9765842.85	0.0089	0.0043
Moon	22025-11-13 05:02 G	9765842.51	9765842.71	9765842.96	0.0089	0.0046 *
Moon	22026-11-15 13:26 G	9766209.85	9766210.06	9766210.29	0.0089	0.0042
Earth	22026-11-15 14:09 G	9766209.89	9766210.09	9766210.33	0.0089	0.0045 *
Moon	22027-11-18 01:26 G	9766577.36	9766577.56	9766577.80	0.0089	0.0050
Earth	22027-11-18 01:55 G	9766577.37	9766577.58	9766577.81	0.0089	0.0047 *
Earth	22028-11-19 13:12 G	9766944.85	9766945.05	9766945.27	0.0089	0.0049
Moon	22028-11-19 14:09 G	9766944.89	9766945.09	9766945.32	0.0089	0.0046 *
Moon	22029-11-21 21:36 G	9767312.21	9767312.40	9767312.63	0.0089	0.0054
Earth	22029-11-22 00:43 G	9767312.33	9767312.53	9767312.74	0.0089	0.0051 *
Earth	22030-11-24 11:45 G	9767679.80	9767679.99	9767680.21	0.0089	0.0053
Moon	22030-11-24 14:52 G	9767679.92	9767680.12	9767680.34	0.0089	0.0050 *
Moon	22031-11-26 19:12 G	9768047.13	9768047.30	9768047.51	0.0089	0.0059
Earth	22031-11-26 23:02 G	9768047.27	9768047.46	9768047.67	0.0089	0.0055 *
Earth	22032-11-28 09:50 G	9768414.73	9768414.91	9768415.12	0.0089	0.0057
Moon	22032-11-28 13:12 G	9768414.87	9768415.05	9768415.28	0.0089	0.0054 *
Moon	22033-11-30 18:14 G	9768782.09	9768782.26	9768782.45	0.0089	0.0062
Earth	22033-11-30 20:38 G	9768782.19	9768782.36	9768782.58	0.0089	0.0059 *
Venus	22034-11-19 10:33 G	9769135.85	9769135.94	9769136.06	0.0089	0.0077
Earth	22034-12-03 07:40 G	9769149.66	9769149.82	9769150.03	0.0089	0.0061
Moon	22034-12-03 10:04 G	9769149.74	9769149.92	9769150.15	0.0089	0.0057 *
Venus	22035-07-02 23:16 G	9769361.32	9769361.47	9769361.65	0.0088	0.0058

Moon	22035-12-05 18:00 G	9769517.11	9769517.25	9769517.44	0.0088	0.0066
Earth	22035-12-05 18:57 G	9769517.12	9769517.29	9769517.49	0.0088	0.0062 *
Venus	22036-02-13 12:14 G	9769586.82	9769587.01	9769587.22	0.0088	0.0038
Venus	22036-09-26 01:12 G	9769812.35	9769812.55	9769812.78	0.0088	0.0019
Moon	22036-12-07 05:31 G	9769884.54	9769884.73	9769884.93	0.0088	0.0060
Earth	22036-12-07 05:31 G	9769884.58	9769884.73	9769884.93	0.0088	0.0064 *
Venus	22037-05-09 14:24 G	9770037.88	9770038.10	9770038.32	0.0088	0.0002
Earth	22037-12-09 16:33 G	9770252.04	9770252.19	9770252.39	0.0088	0.0065
Moon	22037-12-09 17:45 G	9770252.11	9770252.24	9770252.42	0.0088	0.0069 *
Venus	22037-12-21 03:07 G	9770263.42	9770263.63	9770263.85	0.0088	0.0021
Venus	22038-08-03 16:04 G	9770488.98	9770489.17	9770489.37	0.0088	0.0041
Moon	22038-12-12 00:43 G	9770619.37	9770619.53	9770619.74	0.0088	0.0062
Earth	22038-12-12 03:50 G	9770619.50	9770619.66	9770619.84	0.0088	0.0066 *
Venus	22039-03-17 04:33 G	9770714.55	9770714.69	9770714.87	0.0088	0.0061
Venus	22039-10-28 17:16 G	9770940.16	9770940.22	9770940.34	0.0088	0.0081
Earth	22039-12-14 14:52 G	9770986.96	9770987.12	9770987.29	0.0088	0.0067
Moon	22039-12-14 17:45 G	9770987.10	9770987.24	9770987.40	0.0088	0.0071 *
Moon	22040-12-15 22:04 G	9771354.25	9771354.42	9771354.61	0.0088	0.0064
Earth	22040-12-16 01:12 G	9771354.42	9771354.55	9771354.74	0.0088	0.0069 *
Earth	22041-12-18 12:00 G	9771721.87	9771722.00	9771722.18	0.0088	0.0069
Moon	22041-12-18 15:21 G	9771722.02	9771722.14	9771722.31	0.0088	0.0073 *
Moon	22042-12-20 20:24 G	9772089.20	9772089.35	9772089.53	0.0088	0.0066
Earth	22042-12-20 22:48 G	9772089.32	9772089.45	9772089.63	0.0088	0.0070 *
Earth	22043-12-23 09:50 G	9772456.77	9772456.91	9772457.07	0.0088	0.0071
Moon	22043-12-23 12:14 G	9772456.87	9772457.01	9772457.15	0.0088	0.0075 *
Mercury	22044-05-01 18:14 G	9772587.24	9772587.26	9772587.29	0.0088	0.0087
Mercury	22044-07-28 19:55 G	9772675.27	9772675.33	9772675.40	0.0088	0.0080
Mercury	22044-10-24 21:36 G	9772763.33	9772763.40	9772763.49	0.0088	0.0072
Moon	22044-12-24 20:09 G	9772824.18	9772824.34	9772824.50	0.0088	0.0068
Earth	22044-12-24 20:09 G	9772824.21	9772824.34	9772824.51	0.0088	0.0072 *

Mercury	22045-01-20 23:16 G	9772851.38	9772851.47	9772851.58	0.0088	0.0065
Mercury	22045-04-19 00:57 G	9772939.44	9772939.54	9772939.67	0.0088	0.0058
Mercury	22045-07-16 02:52 G	9773027.51	9773027.62	9773027.75	0.0088	0.0051
Mercury	22045-10-12 04:48 G	9773115.57	9773115.70	9773115.83	0.0088	0.0043
Moon	22045-12-27 06:00 G	9773191.63	9773191.75	9773191.91	0.0088	0.0076
Earth	22045-12-27 06:28 G	9773191.65	9773191.77	9773191.94	0.0088	0.0072 *
Mercury	22046-01-08 06:28 G	9773203.64	9773203.77	9773203.91	0.0088	0.0036
Mercury	22046-04-06 08:24 G	9773291.71	9773291.85	9773291.99	0.0088	0.0028
Mercury	22046-07-03 10:04 G	9773379.78	9773379.92	9773380.07	0.0088	0.0021
Mercury	22046-09-29 12:00 G	9773467.85	9773468.00	9773468.15	0.0088	0.0014
Mercury	22046-12-26 13:55 G	9773555.93	9773556.08	9773556.23	0.0088	0.0006
Earth	22046-12-29 17:16 G	9773559.09	9773559.22	9773559.38	0.0088	0.0073
Moon	22046-12-29 18:57 G	9773559.15	9773559.29	9773559.46	0.0088	0.0068 *
Mercury	22047-03-24 15:36 G	9773644.00	9773644.15	9773644.30	0.0088	0.0003
Mercury	22047-06-20 17:31 G	9773732.08	9773732.23	9773732.38	0.0088	0.0009
Mercury	22047-09-16 19:26 G	9773820.16	9773820.31	9773820.45	0.0088	0.0016
Mercury	22047-12-13 21:07 G	9773908.24	9773908.38	9773908.53	0.0088	0.0024
Moon	22048-01-01 00:43 G	9773926.41	9773926.53	9773926.67	0.0088	0.0077
Earth	22048-01-01 04:04 G	9773926.53	9773926.67	9773926.82	0.0088	0.0073 *
Mercury	22048-03-10 23:02 G	9773996.32	9773996.46	9773996.60	0.0088	0.0031
Mercury	22048-06-07 00:43 G	9774084.41	9774084.53	9774084.68	0.0088	0.0039
Mercury	22048-09-03 02:52 G	9774172.49	9774172.62	9774172.75	0.0088	0.0047
Mercury	22048-11-30 04:33 G	9774260.58	9774260.69	9774260.82	0.0088	0.0054
Earth	22049-01-02 13:55 G	9774293.97	9774294.08	9774294.25	0.0088	0.0073
Moon	22049-01-02 17:16 G	9774294.09	9774294.22	9774294.40	0.0088	0.0069 *
Mercury	22049-02-26 06:14 G	9774348.67	9774348.76	9774348.88	0.0088	0.0063
Mercury	22049-05-25 08:38 G	9774436.76	9774436.86	9774436.95	0.0088	0.0070
Mercury	22049-08-21 10:19 G	9774524.87	9774524.93	9774525.01	0.0088	0.0077
Mercury	22049-11-17 12:00 G	9774612.98	9774613.00	9774613.05	0.0088	0.0085
Moon	22050-01-04 21:21 G	9774661.27	9774661.39	9774661.51	0.0088	0.0078

Earth	22050-01-05 00:28 G	9774661.40	9774661.52	9774661.69	0.0088	0.0074 *
Earth	22051-01-07 11:02 G	9775028.84	9775028.96	9775029.12	0.0088	0.0073
Moon	22051-01-07 14:09 G	9775028.95	9775029.09	9775029.28	0.0088	0.0069 *
Moon	22052-01-09 19:12 G	9775396.20	9775396.30	9775396.44	0.0088	0.0077
Earth	22052-01-09 21:36 G	9775396.28	9775396.40	9775396.56	0.0088	0.0073 *
Earth	22053-01-11 07:55 G	9775763.71	9775763.83	9775763.99	0.0088	0.0073
Moon	22053-01-11 10:04 G	9775763.76	9775763.92	9775764.09	0.0088	0.0068 *
Earth	22054-01-13 18:14 G	9776131.15	9776131.26	9776131.43	0.0088	0.0073
Moon	22054-01-13 18:28 G	9776131.17	9776131.27	9776131.41	0.0088	0.0077 *
Moon	22055-01-16 04:04 G	9776498.52	9776498.67	9776498.85	0.0088	0.0068
Earth	22055-01-16 05:02 G	9776498.58	9776498.71	9776498.87	0.0088	0.0072 *
Earth	22056-01-18 14:52 G	9776866.00	9776866.12	9776866.30	0.0088	0.0072
Moon	22056-01-18 17:16 G	9776866.11	9776866.22	9776866.35	0.0088	0.0076 *
Moon	22057-01-19 22:04 G	9777233.27	9777233.42	9777233.61	0.0088	0.0067
Earth	22057-01-20 01:40 G	9777233.43	9777233.57	9777233.73	0.0088	0.0071 *
Earth	22058-01-22 11:16 G	9777600.85	9777600.97	9777601.16	0.0088	0.0071
Moon	22058-01-22 14:52 G	9777601.01	9777601.12	9777601.27	0.0088	0.0075 *
Moon	22059-01-24 18:14 G	9777968.11	9777968.26	9777968.45	0.0088	0.0065
Earth	22059-01-24 21:50 G	9777968.28	9777968.41	9777968.59	0.0088	0.0070 *
Earth	22060-01-27 07:55 G	9778335.70	9778335.83	9778336.01	0.0088	0.0069
Moon	22060-01-27 11:16 G	9778335.84	9778335.97	9778336.12	0.0088	0.0073 *
Moon	22061-01-28 16:04 G	9778703.02	9778703.17	9778703.36	0.0088	0.0064
Earth	22061-01-28 18:14 G	9778703.12	9778703.26	9778703.44	0.0088	0.0068 *
Earth	22062-01-31 04:19 G	9779070.54	9779070.68	9779070.87	0.0088	0.0067
Moon	22062-01-31 06:00 G	9779070.61	9779070.75	9779070.92	0.0088	0.0071 *
Earth	22063-02-02 14:38 G	9779437.97	9779438.11	9779438.31	0.0088	0.0066
Moon	22063-02-02 15:07 G	9779437.98	9779438.13	9779438.34	0.0088	0.0062 *
Moon	22064-02-04 23:45 G	9779805.34	9779805.49	9779805.67	0.0088	0.0068
Earth	22064-02-05 01:26 G	9779805.39	9779805.56	9779805.74	0.0088	0.0064 *
Earth	22065-02-06 11:31 G	9780172.82	9780172.98	9780173.18	0.0088	0.0063

Moon	22065-02-06 13:40 G	9780172.91	9780173.07	9780173.28	0.0088	0.0059 *
Moon	22066-02-08 18:28 G	9780540.12	9780540.27	9780540.46	0.0088	0.0066
Earth	22066-02-08 21:50 G	9780540.25	9780540.41	9780540.62	0.0088	0.0062 *
Earth	22067-02-11 08:24 G	9780907.67	9780907.85	9780908.05	0.0088	0.0060
Moon	22067-02-11 11:31 G	9780907.81	9780907.98	9780908.20	0.0088	0.0056 *
Moon	22068-02-13 15:21 G	9781274.97	9781275.14	9781275.32	0.0088	0.0063
Earth	22068-02-13 18:28 G	9781275.10	9781275.27	9781275.49	0.0088	0.0059 *
Earth	22069-02-15 04:48 G	9781642.53	9781642.70	9781642.92	0.0088	0.0057
Moon	22069-02-15 07:40 G	9781642.62	9781642.82	9781643.04	0.0088	0.0052 *
Moon	22070-02-17 13:40 G	9782009.89	9782010.07	9782010.26	0.0088	0.0059
Earth	22070-02-17 15:21 G	9782009.95	9782010.14	9782010.35	0.0088	0.0055 *
Earth	22071-02-20 01:40 G	9782377.38	9782377.57	9782377.79	0.0088	0.0053
Moon	22071-02-20 02:24 G	9782377.40	9782377.60	9782377.84	0.0088	0.0049 *
Earth	22072-02-22 12:00 G	9782744.80	9782745.00	9782745.22	0.0088	0.0051
Moon	22072-02-22 12:28 G	9782744.85	9782745.02	9782745.24	0.0088	0.0056 *
Moon	22073-02-23 20:24 G	9783112.14	9783112.35	9783112.59	0.0088	0.0045
Earth	22073-02-23 22:19 G	9783112.23	9783112.43	9783112.65	0.0088	0.0049 *
Earth	22074-02-26 08:38 G	9783479.66	9783479.86	9783480.09	0.0088	0.0047
Moon	22074-02-26 11:16 G	9783479.78	9783479.97	9783480.19	0.0088	0.0052 *
Moon	22075-02-28 15:07 G	9783846.93	9783847.13	9783847.38	0.0088	0.0041
Earth	22075-02-28 18:57 G	9783847.08	9783847.29	9783847.53	0.0088	0.0045 *
Earth	22076-03-02 05:16 G	9784214.51	9784214.72	9784214.96	0.0088	0.0043
Moon	22076-03-02 08:52 G	9784214.67	9784214.87	9784215.10	0.0088	0.0047 *
Moon	22077-03-04 12:28 G	9784581.81	9784582.02	9784582.27	0.0088	0.0036
Earth	22077-03-04 15:50 G	9784581.95	9784582.16	9784582.41	0.0088	0.0041 *
Earth	22078-03-07 02:38 G	9784949.39	9784949.61	9784949.85	0.0088	0.0038
Moon	22078-03-07 04:48 G	9784949.49	9784949.70	9784949.95	0.0088	0.0043 *
Moon	22079-03-09 11:45 G	9785316.77	9785316.99	9785317.24	0.0088	0.0032
Earth	22079-03-09 13:12 G	9785316.83	9785317.05	9785317.30	0.0088	0.0036 *
Earth	22080-03-11 00:00 G	9785684.27	9785684.50	9785684.74	0.0088	0.0033



Moon	22080-03-11 00:14 G	9785684.29	9785684.51	9785684.77	0.0088	0.0038	*
Earth	22081-03-13 10:33 G	9786051.71	9786051.94	9786052.19	0.0088	0.0031	
Moon	22081-03-13 11:45 G	9786051.77	9786051.99	9786052.24	0.0088	0.0027	*
Moon	22082-03-15 19:12 G	9786419.06	9786419.30	9786419.55	0.0088	0.0032	
Earth	22082-03-15 21:21 G	9786419.15	9786419.39	9786419.64	0.0088	0.0028	*
Earth	22083-03-18 07:26 G	9786786.58	9786786.81	9786787.08	0.0088	0.0026	
Moon	22083-03-18 10:33 G	9786786.71	9786786.94	9786787.20	0.0088	0.0021	*
Moon	22084-03-19 14:38 G	9787153.88	9787154.11	9787154.37	0.0088	0.0028	
Earth	22084-03-19 18:28 G	9787154.03	9787154.27	9787154.53	0.0088	0.0023	*
Earth	22085-03-22 05:02 G	9787521.47	9787521.71	9787521.97	0.0088	0.0020	
Moon	22085-03-22 08:38 G	9787521.61	9787521.86	9787522.12	0.0088	0.0016	*
Moon	22086-03-24 12:28 G	9787888.78	9787889.02	9787889.28	0.0088	0.0022	
Earth	22086-03-24 16:04 G	9787888.91	9787889.17	9787889.42	0.0088	0.0017	*
Earth	22087-03-27 02:24 G	9788256.36	9788256.60	9788256.87	0.0088	0.0015	
Moon	22087-03-27 04:48 G	9788256.44	9788256.70	9788256.96	0.0088	0.0010	*
Moon	22088-03-28 12:00 G	9788623.76	9788624.00	9788624.25	0.0088	0.0016	
Earth	22088-03-28 13:26 G	9788623.81	9788624.06	9788624.32	0.0088	0.0012	*
Earth	22089-03-31 00:28 G	9788991.26	9788991.52	9788991.78	0.0088	0.0009	
Moon	22089-03-31 00:28 G	9788991.26	9788991.52	9788991.79	0.0088	0.0005	*
Mars	22089-05-16 00:57 G	9789037.45	9789037.54	9789037.72	0.0088	0.0081	
Earth	22090-04-02 11:31 G	9789358.72	9789358.98	9789359.23	0.0088	0.0006	
Moon	22090-04-02 12:43 G	9789358.79	9789359.03	9789359.29	0.0088	0.0011	*
Moon	22091-04-04 20:09 G	9789726.07	9789726.34	9789726.61	0.0088	0.0001	
Earth	22091-04-04 22:19 G	9789726.18	9789726.43	9789726.69	0.0088	0.0004	*
Mars	22091-04-12 05:45 G	9789733.41	9789733.74	9789734.09	0.0088	0.0004	
Earth	22092-04-06 09:21 G	9790093.64	9790093.89	9790094.15	0.0088	0.0002	
Moon	22092-04-06 12:28 G	9790093.77	9790094.02	9790094.28	0.0088	0.0006	*
Mars	22093-03-08 07:26 G	9790429.80	9790429.81	9790429.90	0.0088	0.0088	
Moon	22093-04-08 17:02 G	9790460.95	9790461.21	9790461.47	0.0088	0.0007	
Earth	22093-04-08 20:38 G	9790461.11	9790461.36	9790461.62	0.0088	0.0002	*

Earth	22094-04-11 07:40 G	9790828.56	9790828.82	9790829.08	0.0088	0.0005
Moon	22094-04-11 11:02 G	9790828.70	9790828.96	9790829.22	0.0088	0.0002 *
Moon	22095-04-13 15:36 G	9791195.90	9791196.15	9791196.41	0.0088	0.0012
Earth	22095-04-13 18:43 G	9791196.03	9791196.28	9791196.54	0.0088	0.0008 *
Earth	22096-04-15 05:45 G	9791563.49	9791563.74	9791564.00	0.0088	0.0011
Moon	22096-04-15 07:55 G	9791563.56	9791563.83	9791564.09	0.0088	0.0007 *
Moon	22097-04-17 15:50 G	9791930.92	9791931.16	9791931.41	0.0088	0.0018
Earth	22097-04-17 16:48 G	9791930.96	9791931.20	9791931.47	0.0088	0.0015 *
Moon	22098-04-20 04:19 G	9792298.42	9792298.68	9792298.94	0.0088	0.0012
Earth	22098-04-20 04:19 G	9792298.43	9792298.68	9792298.94	0.0088	0.0017 *
Earth	22099-04-22 15:21 G	9792665.90	9792666.14	9792666.40	0.0088	0.0019
Moon	22099-04-22 17:02 G	9792665.98	9792666.21	9792666.46	0.0088	0.0024 *
Moon	22100-04-25 00:28 G	9793033.27	9793033.52	9793033.79	0.0088	0.0018
Earth	22100-04-25 02:52 G	9793033.38	9793033.62	9793033.88	0.0088	0.0022 *
Earth	22101-04-27 14:24 G	9793400.86	9793401.10	9793401.35	0.0088	0.0025
Moon	22101-04-27 17:16 G	9793401.00	9793401.22	9793401.48	0.0088	0.0030 *
Moon	22102-04-29 22:04 G	9793768.19	9793768.42	9793768.69	0.0088	0.0024
Earth	22102-04-30 01:55 G	9793768.34	9793768.58	9793768.83	0.0088	0.0028 *
Earth	22103-05-02 13:26 G	9794135.83	9794136.06	9794136.31	0.0088	0.0030
Moon	22103-05-02 17:02 G	9794135.97	9794136.21	9794136.46	0.0088	0.0034 *
Moon	22104-05-03 22:04 G	9794503.19	9794503.42	9794503.67	0.0088	0.0029
Earth	22104-05-04 01:26 G	9794503.32	9794503.56	9794503.80	0.0088	0.0033 *
Earth	22105-05-06 12:57 G	9794870.82	9794871.04	9794871.29	0.0088	0.0036
Moon	22105-05-06 14:38 G	9794870.89	9794871.11	9794871.37	0.0088	0.0040 *
Moon	22106-05-08 23:31 G	9795238.27	9795238.48	9795238.73	0.0088	0.0036
Earth	22106-05-09 00:43 G	9795238.31	9795238.53	9795238.78	0.0088	0.0038 *
Moon	22107-05-11 12:00 G	9795605.79	9795606.00	9795606.26	0.0088	0.0045
Earth	22107-05-11 12:28 G	9795605.80	9795606.02	9795606.26	0.0088	0.0041 *
Earth	22108-05-13 00:14 G	9795973.30	9795973.51	9795973.75	0.0089	0.0044
Moon	22108-05-13 02:09 G	9795973.38	9795973.59	9795973.82	0.0089	0.0040 *

Moon	22109-05-15 09:50 G	9796340.71	9796340.91	9796341.15	0.0089	0.0049
Earth	22109-05-15 12:14 G	9796340.81	9796341.01	9796341.25	0.0089	0.0046 *
Earth	22110-05-18 00:14 G	9796708.30	9796708.51	9796708.73	0.0089	0.0048
Moon	22110-05-18 03:21 G	9796708.44	9796708.64	9796708.87	0.0089	0.0045 *
Moon	22111-05-20 08:38 G	9797075.67	9797075.86	9797076.07	0.0089	0.0054
Earth	22111-05-20 12:14 G	9797075.81	9797076.01	9797076.23	0.0089	0.0050 *
Earth	22112-05-21 23:45 G	9797443.31	9797443.49	9797443.73	0.0089	0.0053
Moon	22112-05-22 03:36 G	9797443.45	9797443.65	9797443.88	0.0089	0.0050 *
Moon	22113-05-24 09:07 G	9797810.71	9797810.88	9797811.09	0.0089	0.0058
Earth	22113-05-24 12:00 G	9797810.82	9797811.00	9797811.23	0.0089	0.0055 *
Earth	22114-05-27 00:14 G	9798178.33	9798178.51	9798178.73	0.0089	0.0057
Moon	22114-05-27 02:09 G	9798178.40	9798178.59	9798178.82	0.0089	0.0054 *
Moon	22115-05-29 11:31 G	9798545.81	9798545.98	9798546.17	0.0089	0.0061
Earth	22115-05-29 12:28 G	9798545.85	9798546.02	9798546.24	0.0089	0.0059 *
Moon	22116-05-31 00:43 G	9798913.35	9798913.53	9798913.76	0.0089	0.0058
Earth	22116-05-31 00:57 G	9798913.37	9798913.54	9798913.75	0.0089	0.0061 *
Earth	22117-06-02 13:55 G	9799280.90	9799281.08	9799281.27	0.0089	0.0062
Moon	22117-06-02 15:21 G	9799280.98	9799281.14	9799281.32	0.0089	0.0065 *
Venus	22118-03-31 23:16 G	9799583.36	9799583.47	9799583.61	0.0089	0.0073
Moon	22118-06-04 23:31 G	9799648.31	9799648.48	9799648.69	0.0089	0.0062
Earth	22118-06-05 02:09 G	9799648.42	9799648.59	9799648.78	0.0089	0.0064 *
Venus	22118-11-12 12:28 G	9799808.86	9799809.02	9799809.21	0.0089	0.0053
Earth	22119-06-07 14:09 G	9800015.94	9800016.09	9800016.29	0.0089	0.0066
Moon	22119-06-07 17:45 G	9800016.09	9800016.24	9800016.42	0.0089	0.0068 *
Venus	22119-06-26 01:40 G	9800034.37	9800034.57	9800034.78	0.0089	0.0033
Venus	22120-02-06 14:52 G	9800259.91	9800260.12	9800260.34	0.0089	0.0013
Moon	22120-06-08 23:16 G	9800383.32	9800383.47	9800383.67	0.0089	0.0065
Earth	22120-06-09 03:07 G	9800383.47	9800383.63	9800383.81	0.0089	0.0067 *
Venus	22120-09-19 04:04 G	9800485.45	9800485.67	9800485.89	0.0089	0.0007
Venus	22121-05-02 17:02 G	9800711.01	9800711.21	9800711.43	0.0089	0.0027

Earth	22121-06-11 15:07 G	9800750.99	9800751.13	9800751.32	0.0089	0.0069
Moon	22121-06-11 18:57 G	9800751.15	9800751.29	9800751.47	0.0089	0.0070 *
Venus	22121-12-14 06:00 G	9800936.58	9800936.75	9800936.95	0.0089	0.0047
Moon	22122-06-14 00:43 G	9801118.39	9801118.53	9801118.71	0.0089	0.0068
Earth	22122-06-14 03:50 G	9801118.52	9801118.66	9801118.84	0.0089	0.0070 *
Venus	22122-07-27 18:57 G	9801162.17	9801162.29	9801162.46	0.0089	0.0067
Venus	22123-03-10 08:24 G	9801387.81	9801387.85	9801387.91	0.0089	0.0087
Earth	22123-06-16 16:33 G	9801486.05	9801486.19	9801486.35	0.0089	0.0071
Moon	22123-06-16 18:14 G	9801486.14	9801486.26	9801486.44	0.0089	0.0073 *
Moon	22124-06-18 03:21 G	9801853.52	9801853.64	9801853.81	0.0089	0.0072
Earth	22124-06-18 05:16 G	9801853.58	9801853.72	9801853.88	0.0089	0.0072 *
Earth	22125-06-20 17:45 G	9802221.11	9802221.24	9802221.40	0.0089	0.0073
Moon	22125-06-20 17:16 G	9802221.11	9802221.22	9802221.40	0.0089	0.0075 *
Earth	22126-06-23 06:14 G	9802588.64	9802588.76	9802588.92	0.0089	0.0074
Moon	22126-06-23 07:26 G	9802588.69	9802588.81	9802588.98	0.0089	0.0073 *
Moon	22127-06-25 16:33 G	9802956.09	9802956.19	9802956.37	0.0089	0.0077
Earth	22127-06-25 18:57 G	9802956.18	9802956.29	9802956.45	0.0089	0.0075 *
Mercury	22128-01-23 04:48 G	9803167.65	9803167.70	9803167.78	0.0089	0.0081
Mercury	22128-04-20 07:26 G	9803255.73	9803255.81	9803255.92	0.0089	0.0072
Earth	22128-06-27 07:40 G	9803323.71	9803323.82	9803323.98	0.0089	0.0076
Moon	22128-06-27 11:02 G	9803323.85	9803323.96	9803324.12	0.0089	0.0075 *
Mercury	22128-07-17 10:04 G	9803343.81	9803343.92	9803344.05	0.0089	0.0063
Mercury	22128-10-13 12:43 G	9803431.91	9803432.03	9803432.17	0.0089	0.0055
Mercury	22129-01-09 15:36 G	9803520.00	9803520.15	9803520.29	0.0089	0.0046
Mercury	22129-04-07 17:45 G	9803608.10	9803608.24	9803608.41	0.0089	0.0037
Moon	22129-06-29 17:31 G	9803691.11	9803691.23	9803691.37	0.0089	0.0078
Earth	22129-06-29 20:52 G	9803691.25	9803691.37	9803691.52	0.0089	0.0076 *
Mercury	22129-07-04 20:24 G	9803696.20	9803696.35	9803696.52	0.0089	0.0029
Mercury	22129-09-30 23:02 G	9803784.30	9803784.46	9803784.63	0.0089	0.0020
Mercury	22129-12-28 01:40 G	9803872.40	9803872.57	9803872.74	0.0089	0.0011

Mercury	22130-03-26 04:04 G	9803960.51	9803960.67	9803960.84	0.0089	0.0003
Mercury	22130-06-22 06:43 G	9804048.61	9804048.78	9804048.94	0.0089	0.0007
Earth	22130-07-02 09:21 G	9804058.79	9804058.89	9804059.05	0.0089	0.0078
Moon	22130-07-02 13:12 G	9804058.95	9804059.05	9804059.20	0.0089	0.0077 *
Mercury	22130-09-18 09:07 G	9804136.72	9804136.88	9804137.05	0.0089	0.0015
Mercury	22130-12-15 11:31 G	9804224.83	9804224.98	9804225.14	0.0089	0.0024
Mercury	22131-03-13 13:55 G	9804312.93	9804313.08	9804313.24	0.0089	0.0032
Mercury	22131-06-09 16:19 G	9804401.04	9804401.18	9804401.34	0.0089	0.0041
Moon	22131-07-04 19:12 G	9804426.21	9804426.30	9804426.46	0.0089	0.0079
Earth	22131-07-04 22:33 G	9804426.34	9804426.44	9804426.60	0.0089	0.0078 *
Mercury	22131-09-05 18:43 G	9804489.15	9804489.28	9804489.43	0.0089	0.0050
Mercury	22131-12-02 21:21 G	9804577.27	9804577.39	9804577.52	0.0089	0.0058
Mercury	22132-02-28 23:31 G	9804665.38	9804665.48	9804665.60	0.0089	0.0066
Mercury	22132-05-27 01:55 G	9804753.50	9804753.58	9804753.68	0.0089	0.0075
Earth	22132-07-06 11:45 G	9804793.88	9804793.99	9804794.13	0.0089	0.0078
Moon	22132-07-06 13:55 G	9804793.97	9804794.08	9804794.24	0.0089	0.0078 *
Mercury	22132-08-23 04:33 G	9804841.63	9804841.69	9804841.75	0.0089	0.0083
Moon	22133-07-08 22:48 G	9805161.35	9805161.45	9805161.60	0.0089	0.0077
Earth	22133-07-09 00:43 G	9805161.42	9805161.53	9805161.67	0.0089	0.0078 *
Earth	22134-07-11 13:26 G	9805528.95	9805529.06	9805529.21	0.0089	0.0078
Moon	22134-07-11 13:26 G	9805528.95	9805529.06	9805529.22	0.0089	0.0078 *
Earth	22135-07-14 02:24 G	9805896.49	9805896.60	9805896.75	0.0089	0.0078
Moon	22135-07-14 03:21 G	9805896.54	9805896.64	9805896.79	0.0089	0.0078 *
Moon	22136-07-15 13:40 G	9806263.96	9806264.07	9806264.22	0.0089	0.0078
Earth	22136-07-15 15:07 G	9806264.03	9806264.13	9806264.29	0.0089	0.0078 *
Earth	22137-07-18 04:19 G	9806631.57	9806631.68	9806631.83	0.0089	0.0077
Moon	22137-07-18 07:12 G	9806631.70	9806631.80	9806631.96	0.0089	0.0077 *
Moon	22138-07-20 13:55 G	9806998.97	9806999.08	9806999.24	0.0089	0.0077
Earth	22138-07-20 17:16 G	9806999.11	9806999.22	9806999.38	0.0089	0.0076 *
Earth	22139-07-23 06:28 G	9807366.65	9807366.77	9807366.93	0.0089	0.0076

Moon	22139-07-23 10:19 G	9807366.80	9807366.93	9807367.09	0.0089	0.0074	*
Moon	22140-07-24 16:48 G	9807734.07	9807734.20	9807734.33	0.0089	0.0076	
Earth	22140-07-24 19:55 G	9807734.20	9807734.33	9807734.48	0.0089	0.0075	*
Earth	22141-07-27 09:07 G	9808101.75	9808101.88	9808102.03	0.0089	0.0074	
Moon	22141-07-27 11:16 G	9808101.85	9808101.97	9808102.16	0.0089	0.0073	*
Moon	22142-07-29 19:55 G	9808469.22	9808469.33	9808469.49	0.0089	0.0076	
Earth	22142-07-29 22:19 G	9808469.29	9808469.43	9808469.59	0.0089	0.0073	*
Earth	22143-08-01 11:45 G	9808836.84	9808836.99	9808837.15	0.0089	0.0072	
Moon	22143-08-01 12:14 G	9808836.85	9808837.01	9808837.18	0.0089	0.0070	*
Earth	22144-08-03 00:43 G	9809204.39	9809204.53	9809204.70	0.0089	0.0071	
Moon	22144-08-03 01:12 G	9809204.42	9809204.55	9809204.71	0.0089	0.0073	*
Moon	22145-08-05 12:14 G	9809571.85	9809572.01	9809572.20	0.0089	0.0067	
Earth	22145-08-05 13:40 G	9809571.93	9809572.07	9809572.25	0.0089	0.0070	*
Earth	22146-08-08 03:07 G	9809939.47	9809939.63	9809939.80	0.0090	0.0068	
Moon	22146-08-08 05:31 G	9809939.60	9809939.73	9809939.91	0.0090	0.0071	*
Moon	22147-08-10 12:28 G	9810306.87	9810307.02	9810307.23	0.0090	0.0065	
Earth	22147-08-10 15:50 G	9810307.01	9810307.16	9810307.36	0.0090	0.0067	*
Earth	22148-08-12 05:02 G	9810674.55	9810674.71	9810674.90	0.0090	0.0065	
Moon	22148-08-12 08:24 G	9810674.71	9810674.85	9810675.04	0.0090	0.0069	*
Moon	22149-08-14 14:38 G	9811041.95	9811042.11	9811042.32	0.0090	0.0061	
Earth	22149-08-14 18:00 G	9811042.09	9811042.25	9811042.46	0.0090	0.0064	*
Earth	22150-08-17 06:57 G	9811409.63	9811409.79	9811410.00	0.0090	0.0062	
Moon	22150-08-17 09:50 G	9811409.76	9811409.91	9811410.12	0.0090	0.0065	*
Moon	22151-08-19 18:14 G	9811777.07	9811777.26	9811777.47	0.0090	0.0056	
Earth	22151-08-19 20:09 G	9811777.17	9811777.34	9811777.56	0.0090	0.0060	*
Earth	22152-08-21 09:21 G	9812144.72	9812144.89	9812145.11	0.0090	0.0058	
Moon	22152-08-21 10:04 G	9812144.75	9812144.92	9812145.15	0.0090	0.0061	*
Earth	22153-08-23 22:19 G	9812512.26	9812512.43	9812512.66	0.0090	0.0056	
Moon	22153-08-23 22:33 G	9812512.26	9812512.44	9812512.67	0.0090	0.0053	*
Moon	22154-08-26 10:33 G	9812879.75	9812879.94	9812880.17	0.0090	0.0057	

Earth	22154-08-26 12:00 G	9812879.80	9812880.00	9812880.22	0.0090	0.0053	*
Earth	22155-08-29 01:12 G	9813247.35	9813247.55	9813247.77	0.0090	0.0051	
Moon	22155-08-29 03:36 G	9813247.46	9813247.65	9813247.88	0.0090	0.0048	*
Moon	22156-08-30 11:16 G	9813614.77	9813614.97	9813615.20	0.0090	0.0052	
Earth	22156-08-30 14:09 G	9813614.89	9813615.09	9813615.33	0.0090	0.0049	*
Earth	22157-09-02 03:21 G	9813982.43	9813982.64	9813982.87	0.0090	0.0046	
Moon	22157-09-02 06:43 G	9813982.57	9813982.78	9813983.03	0.0090	0.0042	*
Moon	22158-09-04 12:28 G	9814349.83	9814350.02	9814350.26	0.0090	0.0048	
Earth	22158-09-04 16:04 G	9814349.97	9814350.17	9814350.42	0.0090	0.0044	*
Earth	22159-09-07 05:16 G	9814717.50	9814717.72	9814717.96	0.0090	0.0041	
Moon	22159-09-07 08:24 G	9814717.62	9814717.85	9814718.10	0.0090	0.0037	*
Moon	22160-09-08 15:21 G	9815084.94	9815085.14	9815085.38	0.0090	0.0043	
Earth	22160-09-08 18:14 G	9815085.03	9815085.26	9815085.50	0.0090	0.0038	*
Earth	22161-09-11 06:28 G	9815452.55	9815452.77	9815453.03	0.0090	0.0036	
Moon	22161-09-11 07:40 G	9815452.59	9815452.82	9815453.09	0.0090	0.0032	*
Moon	22162-09-13 19:12 G	9815820.09	9815820.30	9815820.54	0.0090	0.0037	
Earth	22162-09-13 19:26 G	9815820.09	9815820.31	9815820.57	0.0090	0.0033	*
Moon	22163-09-16 07:26 G	9816187.57	9816187.81	9816188.08	0.0089	0.0025	
Earth	22163-09-16 08:24 G	9816187.62	9816187.85	9816188.10	0.0089	0.0030	*
Earth	22164-09-17 21:07 G	9816555.14	9816555.38	9816555.63	0.0089	0.0027	
Moon	22164-09-17 23:31 G	9816555.25	9816555.48	9816555.72	0.0089	0.0031	*
Moon	22165-09-20 07:12 G	9816922.55	9816922.80	9816923.06	0.0089	0.0020	
Earth	22165-09-20 10:04 G	9816922.67	9816922.92	9816923.17	0.0089	0.0024	*
Earth	22166-09-22 22:48 G	9817290.20	9817290.45	9817290.70	0.0089	0.0021	
Moon	22166-09-23 02:24 G	9817290.36	9817290.60	9817290.85	0.0089	0.0026	*
Moon	22167-09-25 08:09 G	9817657.59	9817657.84	9817658.10	0.0089	0.0014	
Earth	22167-09-25 11:31 G	9817657.74	9817657.98	9817658.24	0.0089	0.0018	*
Earth	22168-09-27 00:28 G	9818025.26	9818025.52	9818025.77	0.0089	0.0015	
Moon	22168-09-27 03:36 G	9818025.40	9818025.65	9818025.91	0.0089	0.0020	*
Moon	22169-09-29 10:19 G	9818392.68	9818392.93	9818393.18	0.0089	0.0007	

Earth	22169-09-29 12:57 G	9818392.79	9818393.04	9818393.30	0.0089	0.0012	*
Earth	22170-10-02 01:40 G	9818760.31	9818760.57	9818760.82	0.0089	0.0009	
Moon	22170-10-02 02:52 G	9818760.36	9818760.62	9818760.89	0.0089	0.0013	*
Mars	22171-02-13 20:38 G	9818895.16	9818895.36	9818895.59	0.0089	0.0060	
Moon	22171-10-04 13:26 G	9819127.81	9819128.06	9819128.31	0.0089	0.0002	
Earth	22171-10-04 13:55 G	9819127.83	9819128.08	9819128.35	0.0089	0.0007	*
Moon	22172-10-06 01:40 G	9819495.30	9819495.57	9819495.84	0.0089	0.0007	
Earth	22172-10-06 02:24 G	9819495.34	9819495.60	9819495.86	0.0089	0.0003	*
Mars	22173-01-07 13:26 G	9819588.78	9819589.06	9819589.35	0.0089	0.0013	
Earth	22173-10-08 14:38 G	9819862.86	9819863.11	9819863.37	0.0089	0.0001	
Moon	22173-10-08 16:48 G	9819862.95	9819863.20	9819863.45	0.0089	0.0005	*
Moon	22174-10-11 00:28 G	9820230.26	9820230.52	9820230.78	0.0089	0.0001	
Earth	22174-10-11 03:07 G	9820230.37	9820230.63	9820230.89	0.0089	0.0003	*
Mars	22174-12-02 07:12 G	9820282.75	9820282.80	9820282.89	0.0089	0.0087	
Earth	22175-10-13 15:07 G	9820597.88	9820598.13	9820598.39	0.0089	0.0007	
Moon	22175-10-13 18:43 G	9820598.03	9820598.28	9820598.54	0.0089	0.0011	*
Moon	22176-10-15 00:00 G	9820965.25	9820965.50	9820965.76	0.0089	0.0005	
Earth	22176-10-15 03:36 G	9820965.39	9820965.65	9820965.91	0.0089	0.0009	*
Earth	22177-10-17 15:36 G	9821332.90	9821333.15	9821333.41	0.0089	0.0012	
Moon	22177-10-17 18:43 G	9821333.04	9821333.28	9821333.55	0.0089	0.0017	*
Moon	22178-10-20 00:57 G	9821700.30	9821700.54	9821700.80	0.0089	0.0011	
Earth	22178-10-20 03:50 G	9821700.41	9821700.66	9821700.92	0.0089	0.0016	*
Earth	22179-10-22 16:04 G	9822067.92	9822068.17	9822068.43	0.0089	0.0018	
Moon	22179-10-22 17:45 G	9822067.98	9822068.24	9822068.49	0.0089	0.0023	*
Moon	22180-10-24 03:21 G	9822435.40	9822435.64	9822435.89	0.0089	0.0017	
Earth	22180-10-24 04:04 G	9822435.43	9822435.67	9822435.93	0.0089	0.0022	*
Moon	22181-10-26 15:21 G	9822802.90	9822803.14	9822803.41	0.0089	0.0029	
Earth	22181-10-26 16:04 G	9822802.94	9822803.17	9822803.43	0.0089	0.0025	*
Earth	22182-10-29 04:19 G	9823170.44	9823170.68	9823170.93	0.0089	0.0027	
Moon	22182-10-29 06:14 G	9823170.53	9823170.76	9823171.01	0.0089	0.0023	*



Moon	22183-10-31 13:26 G	9823537.83	9823538.06	9823538.32	0.0089	0.0034
Earth	22183-10-31 16:04 G	9823537.94	9823538.17	9823538.42	0.0089	0.0030 *
Earth	22184-11-02 03:50 G	9823905.43	9823905.66	9823905.91	0.0089	0.0033
Moon	22184-11-02 07:26 G	9823905.58	9823905.81	9823906.06	0.0089	0.0028 *
Moon	22185-11-04 12:00 G	9824272.79	9824273.00	9824273.24	0.0089	0.0040
Earth	22185-11-04 15:50 G	9824272.93	9824273.16	9824273.40	0.0089	0.0035 *
Earth	22186-11-07 03:21 G	9824640.41	9824640.64	9824640.88	0.0089	0.0038
Moon	22186-11-07 06:28 G	9824640.55	9824640.77	9824641.03	0.0089	0.0035 *
Moon	22187-11-09 12:14 G	9825007.80	9825008.01	9825008.24	0.0089	0.0045
Earth	22187-11-09 14:52 G	9825007.91	9825008.12	9825008.36	0.0089	0.0041 *
Earth	22188-11-11 02:38 G	9825375.39	9825375.61	9825375.83	0.0089	0.0043
Moon	22188-11-11 03:36 G	9825375.44	9825375.65	9825375.91	0.0089	0.0040 *
Moon	22189-11-13 13:26 G	9825742.85	9825743.06	9825743.27	0.0089	0.0049
Earth	22189-11-13 13:55 G	9825742.87	9825743.08	9825743.31	0.0089	0.0046 *
Moon	22190-11-16 00:43 G	9826110.31	9826110.53	9826110.77	0.0089	0.0044
Earth	22190-11-16 01:40 G	9826110.36	9826110.57	9826110.79	0.0089	0.0048 *
Earth	22191-11-18 12:43 G	9826477.84	9826478.03	9826478.26	0.0089	0.0051
Moon	22191-11-18 14:38 G	9826477.94	9826478.11	9826478.33	0.0089	0.0055 *
Moon	22192-11-19 22:04 G	9826845.21	9826845.42	9826845.64	0.0089	0.0049
Earth	22192-11-20 00:28 G	9826845.33	9826845.52	9826845.74	0.0089	0.0053 *
Earth	22193-11-22 12:00 G	9827212.81	9827213.00	9827213.21	0.0089	0.0055
Moon	22193-11-22 15:21 G	9827212.97	9827213.14	9827213.34	0.0089	0.0059 *
Moon	22194-11-24 19:40 G	9827580.14	9827580.32	9827580.54	0.0089	0.0054
Earth	22194-11-24 23:02 G	9827580.29	9827580.46	9827580.68	0.0089	0.0058 *
Earth	22195-11-27 10:48 G	9827947.76	9827947.95	9827948.14	0.0089	0.0059
Moon	22195-11-27 14:09 G	9827947.91	9827948.09	9827948.28	0.0089	0.0062 *
Moon	22196-11-28 18:57 G	9828315.12	9828315.29	9828315.50	0.0089	0.0058
Earth	22196-11-28 21:21 G	9828315.23	9828315.39	9828315.60	0.0089	0.0062 *
Earth	22197-12-01 08:38 G	9828682.70	9828682.86	9828683.06	0.0089	0.0063
Moon	22197-12-01 10:19 G	9828682.76	9828682.93	9828683.11	0.0089	0.0066 *

Moon	22198-12-03 19:12 G	9829050.13	9829050.30	9829050.48	0.0089	0.0062
Earth	22198-12-03 19:40 G	9829050.16	9829050.32	9829050.51	0.0089	0.0065 *
Venus	22199-02-21 22:19 G	9829130.38	9829130.43	9829130.52	0.0089	0.0084
Venus	22199-10-05 11:45 G	9829355.84	9829355.99	9829356.14	0.0089	0.0064
Moon	22199-12-06 05:16 G	9829417.58	9829417.72	9829417.91	0.0089	0.0070
Earth	22199-12-06 06:14 G	9829417.62	9829417.76	9829417.96	0.0089	0.0067 *
Venus	22200-05-19 00:14 G	9829581.33	9829581.51	9829581.71	0.0089	0.0045
Earth	22200-12-08 17:31 G	9829785.08	9829785.23	9829785.41	0.0088	0.0068
Moon	22200-12-08 19:40 G	9829785.16	9829785.32	9829785.50	0.0088	0.0065 *
Venus	22200-12-30 13:12 G	9829806.84	9829807.05	9829807.26	0.0088	0.0025
Venus	22201-08-13 02:09 G	9830032.37	9830032.59	9830032.81	0.0088	0.0005
Moon	22201-12-11 01:55 G	9830152.44	9830152.58	9830152.74	0.0088	0.0072
Earth	22201-12-11 04:04 G	9830152.54	9830152.67	9830152.86	0.0088	0.0070 *
Venus	22202-03-26 14:52 G	9830257.91	9830258.12	9830258.34	0.0088	0.0014
Venus	22202-11-07 03:50 G	9830483.46	9830483.66	9830483.86	0.0088	0.0034
Earth	22202-12-13 15:07 G	9830520.00	9830520.13	9830520.30	0.0088	0.0071
Moon	22202-12-13 18:43 G	9830520.14	9830520.28	9830520.46	0.0088	0.0068 *
Venus	22203-06-20 16:19 G	9830709.02	9830709.18	9830709.37	0.0088	0.0054
Moon	22203-12-15 22:19 G	9830887.33	9830887.43	9830887.60	0.0088	0.0076
Earth	22203-12-16 02:09 G	9830887.46	9830887.59	9830887.76	0.0088	0.0072 *
Venus	22204-02-01 05:31 G	9830934.61	9830934.73	9830934.85	0.0088	0.0073
Earth	22204-12-17 13:12 G	9831254.91	9831255.05	9831255.20	0.0088	0.0073
Moon	22204-12-17 16:19 G	9831255.04	9831255.18	9831255.35	0.0088	0.0071 *
Moon	22205-12-19 21:21 G	9831622.29	9831622.39	9831622.53	0.0088	0.0077
Earth	22205-12-20 00:14 G	9831622.37	9831622.51	9831622.65	0.0088	0.0074 *
Earth	22206-12-22 11:02 G	9831989.83	9831989.96	9831990.10	0.0088	0.0075
Moon	22206-12-22 11:31 G	9831989.86	9831989.98	9831990.17	0.0088	0.0073 *
Moon	22207-12-24 20:38 G	9832357.28	9832357.36	9832357.50	0.0088	0.0079
Earth	22207-12-24 21:21 G	9832357.28	9832357.39	9832357.54	0.0088	0.0076 *
Moon	22208-12-26 06:28 G	9832724.65	9832724.77	9832724.94	0.0088	0.0073

Earth	22208-12-26 07:55 G	9832724.72	9832724.83	9832724.98	0.0088	0.0077 *
Mercury	22209-01-28 18:00 G	9832758.21	9832758.25	9832758.30	0.0088	0.0083
Mercury	22209-04-26 19:40 G	9832846.25	9832846.32	9832846.40	0.0088	0.0075
Mercury	22209-07-23 21:21 G	9832934.31	9832934.39	9832934.49	0.0088	0.0068
Mercury	22209-10-19 23:02 G	9833022.37	9833022.46	9833022.58	0.0088	0.0061
Earth	22209-12-28 18:14 G	9833092.17	9833092.26	9833092.42	0.0088	0.0077
Moon	22209-12-28 21:07 G	9833092.29	9833092.38	9833092.50	0.0088	0.0080 *
Mercury	22210-01-16 00:57 G	9833110.43	9833110.54	9833110.66	0.0088	0.0054
Mercury	22210-04-14 02:38 G	9833198.49	9833198.61	9833198.75	0.0088	0.0047
Mercury	22210-07-11 04:19 G	9833286.56	9833286.68	9833286.83	0.0088	0.0040
Mercury	22210-10-07 06:28 G	9833374.63	9833374.77	9833374.91	0.0088	0.0032
Moon	22210-12-31 01:55 G	9833459.47	9833459.58	9833459.74	0.0088	0.0075
Earth	22210-12-31 05:02 G	9833459.61	9833459.71	9833459.85	0.0088	0.0078 *
Mercury	22211-01-03 08:09 G	9833462.70	9833462.84	9833462.98	0.0088	0.0024
Mercury	22211-04-01 09:50 G	9833550.77	9833550.91	9833551.06	0.0088	0.0017
Mercury	22211-06-28 11:45 G	9833638.84	9833638.99	9833639.14	0.0088	0.0009
Mercury	22211-09-24 13:40 G	9833726.92	9833727.07	9833727.22	0.0088	0.0002
Mercury	22211-12-21 15:21 G	9833814.99	9833815.14	9833815.29	0.0088	0.0006
Earth	22212-01-02 15:50 G	9833827.05	9833827.16	9833827.29	0.0088	0.0078
Moon	22212-01-02 19:12 G	9833827.22	9833827.30	9833827.42	0.0088	0.0081 *
Mercury	22212-03-18 17:16 G	9833903.07	9833903.22	9833903.37	0.0088	0.0013
Mercury	22212-06-14 19:12 G	9833991.15	9833991.30	9833991.44	0.0088	0.0021
Mercury	22212-09-10 20:52 G	9834079.23	9834079.37	9834079.52	0.0088	0.0028
Mercury	22212-12-07 22:33 G	9834167.31	9834167.44	9834167.59	0.0088	0.0036
Moon	22213-01-03 22:48 G	9834194.33	9834194.45	9834194.59	0.0088	0.0075
Earth	22213-01-04 01:55 G	9834194.49	9834194.58	9834194.72	0.0088	0.0078 *
Mercury	22213-03-06 00:28 G	9834255.40	9834255.52	9834255.66	0.0088	0.0044
Mercury	22213-06-02 02:24 G	9834343.49	9834343.60	9834343.73	0.0088	0.0051
Mercury	22213-08-29 04:19 G	9834431.57	9834431.68	9834431.80	0.0088	0.0059
Mercury	22213-11-25 06:14 G	9834519.67	9834519.76	9834519.86	0.0088	0.0066

Earth	22214-01-06 12:14 G	9834561.92	9834562.01	9834562.15	0.0088	0.0079
Moon	22214-01-06 16:04 G	9834562.07	9834562.17	9834562.29	0.0088	0.0079 *
Mercury	22214-02-21 07:55 G	9834607.76	9834607.83	9834607.92	0.0088	0.0074
Mercury	22214-05-20 10:04 G	9834695.87	9834695.92	9834695.98	0.0088	0.0082
Moon	22215-01-08 20:38 G	9834929.27	9834929.36	9834929.52	0.0088	0.0076
Earth	22215-01-08 22:48 G	9834929.36	9834929.45	9834929.59	0.0088	0.0079 *
Earth	22216-01-11 09:07 G	9835296.79	9835296.88	9835297.02	0.0088	0.0078
Moon	22216-01-11 09:50 G	9835296.83	9835296.91	9835297.05	0.0088	0.0080 *
Moon	22217-01-12 19:55 G	9835664.22	9835664.33	9835664.47	0.0088	0.0076
Earth	22217-01-12 19:40 G	9835664.23	9835664.32	9835664.46	0.0088	0.0078 *
Moon	22218-01-15 04:19 G	9836031.60	9836031.68	9836031.82	0.0088	0.0080
Earth	22218-01-15 06:43 G	9836031.67	9836031.78	9836031.91	0.0088	0.0077 *
Earth	22219-01-17 16:48 G	9836399.10	9836399.20	9836399.34	0.0088	0.0077
Moon	22219-01-17 19:12 G	9836399.20	9836399.30	9836399.45	0.0088	0.0075 *
Moon	22220-01-20 00:14 G	9836766.41	9836766.51	9836766.64	0.0088	0.0078
Earth	22220-01-20 03:50 G	9836766.53	9836766.66	9836766.78	0.0088	0.0076 *
Earth	22221-01-21 13:40 G	9837133.96	9837134.07	9837134.21	0.0088	0.0076
Moon	22221-01-21 17:16 G	9837134.11	9837134.22	9837134.38	0.0088	0.0074 *
Moon	22222-01-23 21:07 G	9837501.27	9837501.38	9837501.51	0.0088	0.0077
Earth	22222-01-24 00:14 G	9837501.39	9837501.51	9837501.65	0.0088	0.0075 *
Earth	22223-01-26 10:33 G	9837868.81	9837868.94	9837869.08	0.0088	0.0074
Moon	22223-01-26 13:40 G	9837868.94	9837869.07	9837869.22	0.0088	0.0073 *
Moon	22224-01-28 19:26 G	9838236.18	9838236.31	9838236.43	0.0088	0.0075
Earth	22224-01-28 20:52 G	9838236.24	9838236.37	9838236.52	0.0088	0.0073 *
Earth	22225-01-30 07:12 G	9838603.66	9838603.80	9838603.95	0.0088	0.0072
Moon	22225-01-30 06:57 G	9838603.67	9838603.79	9838603.98	0.0088	0.0071 *
Earth	22226-02-01 17:16 G	9838971.08	9838971.22	9838971.38	0.0088	0.0071
Moon	22226-02-01 18:00 G	9838971.11	9838971.25	9838971.39	0.0088	0.0072 *
Moon	22227-02-04 00:57 G	9839338.40	9839338.54	9839338.73	0.0088	0.0068
Earth	22227-02-04 03:21 G	9839338.50	9839338.64	9839338.81	0.0088	0.0070 *

Earth	22228-02-06 13:12 G	9839705.92	9839706.05	9839706.24	0.0088	0.0069
Moon	22228-02-06 16:33 G	9839706.05	9839706.19	9839706.35	0.0088	0.0070 *
Moon	22229-02-07 20:24 G	9840073.20	9840073.35	9840073.55	0.0088	0.0066
Earth	22229-02-08 00:00 G	9840073.35	9840073.50	9840073.68	0.0088	0.0067 *
Earth	22230-02-10 09:50 G	9840440.77	9840440.91	9840441.11	0.0088	0.0066
Moon	22230-02-10 13:55 G	9840440.93	9840441.08	9840441.26	0.0088	0.0067 *
Moon	22231-02-12 17:31 G	9840808.08	9840808.23	9840808.43	0.0088	0.0063
Earth	22231-02-12 20:38 G	9840808.20	9840808.36	9840808.56	0.0088	0.0064 *
Earth	22232-02-15 06:57 G	9841175.63	9841175.79	9841175.99	0.0088	0.0062
Moon	22232-02-15 10:19 G	9841175.74	9841175.93	9841176.11	0.0088	0.0062 *
Moon	22233-02-16 16:19 G	9841543.01	9841543.18	9841543.37	0.0088	0.0059
Earth	22233-02-16 17:31 G	9841543.06	9841543.23	9841543.43	0.0088	0.0060 *
Earth	22234-02-19 04:04 G	9841910.48	9841910.67	9841910.87	0.0088	0.0058
Moon	22234-02-19 04:04 G	9841910.48	9841910.67	9841910.87	0.0088	0.0059 *
Earth	22235-02-21 14:09 G	9842277.90	9842278.09	9842278.30	0.0088	0.0056
Moon	22235-02-21 14:38 G	9842277.94	9842278.11	9842278.32	0.0088	0.0056 *
Moon	22236-02-23 21:36 G	9842645.22	9842645.40	9842645.63	0.0088	0.0056
Earth	22236-02-24 00:28 G	9842645.33	9842645.52	9842645.73	0.0088	0.0054 *
Earth	22237-02-25 10:33 G	9843012.75	9843012.94	9843013.16	0.0088	0.0052
Moon	22237-02-25 13:40 G	9843012.88	9843013.07	9843013.29	0.0088	0.0051 *
Moon	22238-02-27 17:31 G	9843380.03	9843380.23	9843380.45	0.0088	0.0050
Earth	22238-02-27 20:52 G	9843380.18	9843380.37	9843380.60	0.0088	0.0050 *
Earth	22239-03-02 06:57 G	9843747.60	9843747.79	9843748.03	0.0088	0.0048
Moon	22239-03-02 10:33 G	9843747.75	9843747.94	9843748.19	0.0088	0.0047 *
Moon	22240-03-03 14:38 G	9844114.91	9844115.11	9844115.34	0.0088	0.0046
Earth	22240-03-03 17:45 G	9844115.03	9844115.24	9844115.47	0.0088	0.0045 *
Earth	22241-03-06 03:50 G	9844482.46	9844482.66	9844482.90	0.0088	0.0043
Moon	22241-03-06 06:14 G	9844482.55	9844482.76	9844483.02	0.0088	0.0043 *
Moon	22242-03-08 13:40 G	9844849.87	9844850.07	9844850.31	0.0088	0.0041
Earth	22242-03-08 14:38 G	9844849.89	9844850.11	9844850.35	0.0088	0.0040 *

Moon	22243-03-11 00:28 G	9845217.29	9845217.52	9845217.78	0.0088	0.0037
Earth	22243-03-11 00:43 G	9845217.32	9845217.53	9845217.79	0.0088	0.0038 *
Earth	22244-03-12 11:31 G	9845584.76	9845584.98	9845585.23	0.0088	0.0035
Moon	22244-03-12 12:57 G	9845584.82	9845585.04	9845585.28	0.0088	0.0035 *
Moon	22245-03-14 19:40 G	9845952.08	9845952.32	9845952.57	0.0088	0.0031
Earth	22245-03-14 22:33 G	9845952.20	9845952.44	9845952.68	0.0088	0.0032 *
Earth	22246-03-17 08:38 G	9846319.64	9846319.86	9846320.12	0.0088	0.0030
Moon	22246-03-17 12:00 G	9846319.77	9846320.00	9846320.25	0.0088	0.0030 *
Moon	22247-03-19 16:04 G	9846686.93	9846687.17	9846687.42	0.0088	0.0027
Earth	22247-03-19 19:26 G	9846687.08	9846687.31	9846687.57	0.0088	0.0027 *
Earth	22248-03-21 06:14 G	9847054.52	9847054.76	9847055.01	0.0088	0.0024
Moon	22248-03-21 09:50 G	9847054.66	9847054.91	9847055.16	0.0088	0.0024 *
Moon	22249-03-23 14:24 G	9847421.86	9847422.10	9847422.35	0.0088	0.0021
Earth	22249-03-23 17:02 G	9847421.96	9847422.21	9847422.46	0.0088	0.0021 *
Earth	22250-03-26 03:36 G	9847789.40	9847789.65	9847789.91	0.0088	0.0018
Moon	22250-03-26 06:00 G	9847789.49	9847789.75	9847790.01	0.0088	0.0017 *
Moon	22251-03-28 13:55 G	9848156.84	9848157.08	9848157.33	0.0088	0.0015
Earth	22251-03-28 14:24 G	9848156.85	9848157.10	9848157.36	0.0088	0.0015 *
Moon	22252-03-30 00:28 G	9848524.26	9848524.52	9848524.79	0.0088	0.0012
Earth	22252-03-30 01:12 G	9848524.30	9848524.55	9848524.81	0.0088	0.0012 *
Earth	22253-04-01 12:00 G	9848891.75	9848892.00	9848892.26	0.0088	0.0009
Moon	22253-04-01 13:26 G	9848891.82	9848892.06	9848892.32	0.0088	0.0010 *
Moon	22254-04-03 19:40 G	9849259.06	9849259.32	9849259.59	0.0088	0.0007
Earth	22254-04-03 22:48 G	9849259.20	9849259.45	9849259.71	0.0088	0.0006 *
Mars	22254-11-25 23:16 G	9849495.16	9849495.47	9849495.81	0.0088	0.0026
Earth	22255-04-06 09:50 G	9849626.65	9849626.91	9849627.17	0.0088	0.0003
Moon	22255-04-06 12:57 G	9849626.79	9849627.04	9849627.30	0.0088	0.0004 *
Moon	22256-04-07 17:16 G	9849993.96	9849994.22	9849994.48	0.0088	0.0001
Earth	22256-04-07 21:07 G	9849994.12	9849994.38	9849994.63	0.0088	0.0001 *
Mars	22256-10-22 02:24 G	9850191.38	9850191.60	9850191.89	0.0088	0.0058

Earth	22257-04-10 07:55 G	9850361.58	9850361.83	9850362.09	0.0088	0.0004
Moon	22257-04-10 11:31 G	9850361.71	9850361.98	9850362.24	0.0088	0.0002 *
Moon	22258-04-12 16:48 G	9850728.95	9850729.20	9850729.45	0.0088	0.0007
Earth	22258-04-12 19:12 G	9850729.05	9850729.30	9850729.56	0.0088	0.0006 *
Earth	22259-04-15 06:14 G	9851096.51	9851096.76	9851097.02	0.0088	0.0009
Moon	22259-04-15 08:24 G	9851096.59	9851096.85	9851097.12	0.0088	0.0007 *
Earth	22260-04-16 17:31 G	9851463.98	9851464.23	9851464.49	0.0088	0.0012
Moon	22260-04-16 17:16 G	9851463.98	9851464.22	9851464.48	0.0088	0.0013 *
Moon	22261-04-19 03:50 G	9851831.41	9851831.66	9851831.94	0.0088	0.0015
Earth	22261-04-19 04:48 G	9851831.45	9851831.70	9851831.96	0.0088	0.0015 *
Earth	22262-04-21 15:50 G	9852198.92	9852199.16	9852199.42	0.0088	0.0018
Moon	22262-04-21 17:45 G	9852199.00	9852199.24	9852199.49	0.0088	0.0020 *
Moon	22263-04-24 00:00 G	9852566.25	9852566.50	9852566.77	0.0088	0.0020
Earth	22263-04-24 03:07 G	9852566.39	9852566.63	9852566.89	0.0088	0.0022 *
Earth	22264-04-25 14:24 G	9852933.86	9852934.10	9852934.36	0.0088	0.0024
Moon	22264-04-25 17:45 G	9852934.01	9852934.24	9852934.50	0.0088	0.0026 *
Moon	22265-04-27 22:04 G	9853301.19	9853301.42	9853301.68	0.0088	0.0025
Earth	22265-04-28 01:40 G	9853301.34	9853301.57	9853301.83	0.0088	0.0028 *
Earth	22266-04-30 13:26 G	9853668.82	9853669.06	9853669.30	0.0088	0.0030
Moon	22266-04-30 16:33 G	9853668.95	9853669.19	9853669.44	0.0088	0.0031 *
Moon	22267-05-02 22:04 G	9854036.20	9854036.42	9854036.68	0.0088	0.0032
Earth	22267-05-03 00:57 G	9854036.30	9854036.54	9854036.78	0.0088	0.0033 *
Earth	22268-05-04 12:28 G	9854403.79	9854404.02	9854404.26	0.0088	0.0036
Moon	22268-05-04 14:24 G	9854403.86	9854404.10	9854404.35	0.0088	0.0038 *
Earth	22269-05-07 00:00 G	9854771.28	9854771.50	9854771.75	0.0088	0.0039
Moon	22269-05-07 00:14 G	9854771.29	9854771.51	9854771.74	0.0088	0.0037 *
Moon	22270-05-09 11:02 G	9855138.73	9855138.96	9855139.20	0.0088	0.0043
Earth	22270-05-09 11:31 G	9855138.77	9855138.98	9855139.23	0.0088	0.0042 *
Earth	22271-05-11 23:45 G	9855506.27	9855506.49	9855506.72	0.0088	0.0044
Moon	22271-05-12 01:12 G	9855506.35	9855506.55	9855506.79	0.0088	0.0042 *

Moon	22272-05-13 07:55 G	9855873.64	9855873.83	9855874.08	0.0089	0.0049
Earth	22272-05-13 11:16 G	9855873.77	9855873.97	9855874.21	0.0089	0.0047 *
Earth	22273-05-15 23:31 G	9856241.27	9856241.48	9856241.70	0.0089	0.0049
Moon	22273-05-16 02:24 G	9856241.40	9856241.60	9856241.84	0.0089	0.0047 *
Moon	22274-05-18 07:12 G	9856608.62	9856608.80	9856609.03	0.0089	0.0055
Earth	22274-05-18 11:02 G	9856608.77	9856608.96	9856609.19	0.0089	0.0052 *
Earth	22275-05-20 23:02 G	9856976.27	9856976.46	9856976.68	0.0089	0.0054
Moon	22275-05-21 01:55 G	9856976.39	9856976.58	9856976.82	0.0089	0.0052 *
Moon	22276-05-22 08:52 G	9857343.68	9857343.87	9857344.05	0.0089	0.0059
Earth	22276-05-22 11:16 G	9857343.77	9857343.97	9857344.17	0.0089	0.0056 *
Earth	22277-05-24 22:48 G	9857711.28	9857711.45	9857711.66	0.0089	0.0059
Moon	22277-05-25 00:57 G	9857711.34	9857711.54	9857711.76	0.0089	0.0055 *
Earth	22278-05-27 10:48 G	9858078.78	9858078.95	9858079.16	0.0089	0.0061
Moon	22278-05-27 10:33 G	9858078.79	9858078.94	9858079.14	0.0089	0.0064 *
Moon	22279-05-29 22:04 G	9858446.25	9858446.42	9858446.64	0.0089	0.0060
Earth	22279-05-29 23:02 G	9858446.30	9858446.46	9858446.66	0.0089	0.0063 *
Earth	22280-05-31 11:02 G	9858813.81	9858813.96	9858814.17	0.0089	0.0065
Moon	22280-05-31 13:26 G	9858813.91	9858814.06	9858814.23	0.0089	0.0068 *
Moon	22281-06-02 20:09 G	9859181.18	9859181.34	9859181.55	0.0089	0.0064
Earth	22281-06-02 23:31 G	9859181.33	9859181.48	9859181.67	0.0089	0.0067 *
Earth	22282-06-05 12:14 G	9859548.85	9859549.01	9859549.18	0.0089	0.0068
Moon	22282-06-05 15:07 G	9859549.00	9859549.13	9859549.30	0.0089	0.0072 *
Venus	22282-07-04 10:33 G	9859577.86	9859577.94	9859578.05	0.0089	0.0080
Venus	22283-02-14 23:45 G	9859803.34	9859803.49	9859803.67	0.0089	0.0060
Moon	22283-06-07 20:52 G	9859916.21	9859916.37	9859916.56	0.0089	0.0066
Earth	22283-06-08 00:43 G	9859916.38	9859916.53	9859916.70	0.0089	0.0070 *
Venus	22283-09-28 13:12 G	9860028.86	9860029.05	9860029.25	0.0089	0.0040
Venus	22284-05-11 02:24 G	9860254.39	9860254.60	9860254.82	0.0089	0.0020
Earth	22284-06-09 12:43 G	9860283.91	9860284.03	9860284.21	0.0089	0.0072
Moon	22284-06-09 16:19 G	9860284.06	9860284.18	9860284.33	0.0089	0.0075 *



Venus	22284-12-22 15:36 G	9860479.93	9860480.15	9860480.37	0.0089	0.0001
Moon	22285-06-11 22:48 G	9860651.32	9860651.45	9860651.63	0.0089	0.0070
Earth	22285-06-12 01:55 G	9860651.44	9860651.58	9860651.73	0.0089	0.0073 *
Venus	22285-08-05 04:33 G	9860705.48	9860705.69	9860705.91	0.0089	0.0020
Venus	22286-03-18 17:45 G	9860931.05	9860931.24	9860931.45	0.0089	0.0040
Earth	22286-06-14 13:40 G	9861018.96	9861019.07	9861019.24	0.0089	0.0075
Moon	22286-06-14 15:36 G	9861019.06	9861019.15	9861019.30	0.0089	0.0079 *
Venus	22286-10-30 06:43 G	9861156.64	9861156.78	9861156.96	0.0089	0.0060
Venus	22287-06-12 20:09 G	9861382.25	9861382.34	9861382.44	0.0089	0.0079
Moon	22287-06-17 02:09 G	9861386.47	9861386.59	9861386.76	0.0089	0.0073
Earth	22287-06-17 02:38 G	9861386.49	9861386.61	9861386.76	0.0089	0.0076 *
Moon	22288-06-18 14:24 G	9861754.02	9861754.10	9861754.24	0.0089	0.0081
Earth	22288-06-18 15:07 G	9861754.03	9861754.13	9861754.28	0.0089	0.0077 *
Earth	22289-06-21 03:50 G	9862121.55	9862121.66	9862121.79	0.0089	0.0078
Moon	22289-06-21 05:31 G	9862121.61	9862121.73	9862121.88	0.0089	0.0074 *
Moon	22290-06-23 12:57 G	9862488.98	9862489.04	9862489.17	0.0089	0.0084
Earth	22290-06-23 16:19 G	9862489.08	9862489.18	9862489.32	0.0089	0.0079 *
Earth	22291-06-26 05:02 G	9862856.62	9862856.71	9862856.84	0.0089	0.0080
Moon	22291-06-26 07:55 G	9862856.73	9862856.83	9862856.99	0.0089	0.0077 *
Moon	22292-06-27 14:09 G	9863224.04	9863224.09	9863224.18	0.0089	0.0086
Earth	22292-06-27 17:31 G	9863224.16	9863224.23	9863224.37	0.0089	0.0082 *
Mercury	22292-07-24 01:40 G	9863250.54	9863250.57	9863250.64	0.0089	0.0085
Mercury	22292-10-20 04:19 G	9863338.61	9863338.68	9863338.78	0.0089	0.0076
Mercury	22293-01-16 06:57 G	9863426.69	9863426.79	9863426.91	0.0089	0.0067
Mercury	22293-04-14 09:36 G	9863514.79	9863514.90	9863515.04	0.0089	0.0059
Earth	22293-06-30 06:43 G	9863591.69	9863591.78	9863591.90	0.0089	0.0082
Moon	22293-06-30 09:50 G	9863591.80	9863591.91	9863592.07	0.0089	0.0077 *
Mercury	22293-07-11 12:28 G	9863602.88	9863603.02	9863603.16	0.0089	0.0049
Mercury	22293-10-07 15:07 G	9863690.98	9863691.13	9863691.28	0.0089	0.0041
Mercury	22294-01-03 17:31 G	9863779.08	9863779.23	9863779.39	0.0089	0.0032

Mercury	22294-04-01 20:09 G	9863867.18	9863867.34	9863867.50	0.0089	0.0023
Mercury	22294-06-28 22:48 G	9863955.28	9863955.45	9863955.61	0.0089	0.0015
Moon	22294-07-02 16:48 G	9863959.16	9863959.20	9863959.28	0.0089	0.0086
Earth	22294-07-02 19:26 G	9863959.24	9863959.31	9863959.44	0.0089	0.0082 *
Mercury	22294-09-25 01:12 G	9864043.39	9864043.55	9864043.72	0.0089	0.0006
Mercury	22294-12-22 03:50 G	9864131.49	9864131.66	9864131.82	0.0089	0.0004
Mercury	22295-03-20 06:14 G	9864219.60	9864219.76	9864219.93	0.0089	0.0012
Mercury	22295-06-16 08:38 G	9864307.70	9864307.86	9864308.03	0.0089	0.0020
Earth	22295-07-05 08:38 G	9864326.78	9864326.86	9864326.98	0.0089	0.0082
Moon	22295-07-05 10:48 G	9864326.84	9864326.95	9864327.10	0.0089	0.0078 *
Mercury	22295-09-12 11:02 G	9864395.81	9864395.96	9864396.12	0.0089	0.0029
Mercury	22295-12-09 13:26 G	9864483.92	9864484.06	9864484.22	0.0089	0.0038
Mercury	22296-03-06 15:50 G	9864572.03	9864572.16	9864572.31	0.0089	0.0046
Mercury	22296-06-02 18:14 G	9864660.14	9864660.26	9864660.40	0.0089	0.0055
Earth	22296-07-06 21:50 G	9864694.33	9864694.41	9864694.52	0.0089	0.0082
Moon	22296-07-06 20:52 G	9864694.35	9864694.37	9864694.46	0.0089	0.0088 *
Mercury	22296-08-29 20:52 G	9864748.26	9864748.37	9864748.49	0.0089	0.0063
Mercury	22296-11-25 23:02 G	9864836.38	9864836.46	9864836.57	0.0089	0.0072
Mercury	22297-02-22 01:40 G	9864924.50	9864924.57	9864924.65	0.0089	0.0079
Mercury	22297-05-21 04:04 G	9865012.65	9865012.67	9865012.70	0.0089	0.0088
Moon	22297-07-09 10:19 G	9865061.83	9865061.93	9865062.09	0.0089	0.0079
Earth	22297-07-09 10:48 G	9865061.87	9865061.95	9865062.06	0.0089	0.0083 *
Earth	22298-07-11 23:45 G	9865429.41	9865429.49	9865429.60	0.0089	0.0083
Moon	22298-07-12 01:12 G	9865429.52	9865429.55	9865429.62	0.0089	0.0088 *
Moon	22299-07-14 09:36 G	9865796.81	9865796.90	9865797.06	0.0089	0.0079
Earth	22299-07-14 12:43 G	9865796.95	9865797.03	9865797.15	0.0089	0.0083 *
Earth	22300-07-17 01:12 G	9866164.49	9866164.55	9866164.69	0.0089	0.0083
Moon	22300-07-17 04:48 G	9866164.65	9866164.70	9866164.77	0.0089	0.0087 *
Moon	22301-07-19 11:02 G	9866531.84	9866531.96	9866532.10	0.0089	0.0077
Earth	22301-07-19 14:38 G	9866532.03	9866532.11	9866532.23	0.0089	0.0082 *

Earth	22302-07-22 03:07 G	9866899.56	9866899.63	9866899.77	0.0089	0.0082
Moon	22302-07-22 06:57 G	9866899.73	9866899.79	9866899.88	0.0089	0.0086 *
Moon	22303-07-24 13:12 G	9867266.95	9867267.05	9867267.21	0.0089	0.0077
Earth	22303-07-24 16:33 G	9867267.10	9867267.19	9867267.32	0.0089	0.0081 *
Earth	22304-07-26 05:31 G	9867634.63	9867634.73	9867634.87	0.0089	0.0080
Moon	22304-07-26 07:40 G	9867634.76	9867634.82	9867634.94	0.0089	0.0085 *
Moon	22305-07-28 17:45 G	9868002.12	9868002.24	9868002.39	0.0089	0.0075
Earth	22305-07-28 18:43 G	9868002.17	9868002.28	9868002.41	0.0089	0.0079 *
Earth	22306-07-31 07:40 G	9868369.71	9868369.82	9868369.97	0.0089	0.0078
Moon	22306-07-31 07:55 G	9868369.75	9868369.83	9868369.96	0.0089	0.0082 *
Earth	22307-08-02 20:52 G	9868737.26	9868737.37	9868737.53	0.0089	0.0077
Moon	22307-08-02 22:04 G	9868737.30	9868737.42	9868737.59	0.0089	0.0073 *
Jupiter	22308-04-16 13:40 G	9868995.04	9868995.07	9868995.16	0.0089	0.0089
Moon	22308-08-04 07:26 G	9869104.72	9869104.81	9869104.96	0.0089	0.0080
Earth	22308-08-04 10:33 G	9869104.80	9869104.94	9869105.08	0.0089	0.0075 *
Earth	22309-08-06 23:31 G	9869472.35	9869472.48	9869472.64	0.0089	0.0074
Moon	22309-08-07 02:09 G	9869472.45	9869472.59	9869472.77	0.0089	0.0070 *
Moon	22310-08-09 09:07 G	9869839.76	9869839.88	9869840.02	0.0089	0.0077
Earth	22310-08-09 12:28 G	9869839.89	9869840.02	9869840.20	0.0089	0.0073 *
Earth	22311-08-12 01:40 G	9870207.43	9870207.57	9870207.75	0.0090	0.0071
Moon	22311-08-12 05:02 G	9870207.56	9870207.71	9870207.91	0.0090	0.0067 *
Moon	22312-08-13 11:31 G	9870574.85	9870574.98	9870575.15	0.0090	0.0073
Earth	22312-08-13 14:52 G	9870574.98	9870575.12	9870575.30	0.0090	0.0069 *
Earth	22313-08-16 04:04 G	9870942.51	9870942.67	9870942.85	0.0090	0.0067
Moon	22313-08-16 06:28 G	9870942.60	9870942.77	9870942.97	0.0090	0.0063 *
Moon	22314-08-18 15:36 G	9871310.01	9871310.15	9871310.33	0.0090	0.0069
Earth	22314-08-18 17:02 G	9871310.05	9871310.21	9871310.40	0.0090	0.0065 *
Earth	22315-08-21 06:14 G	9871677.59	9871677.76	9871677.95	0.0090	0.0063
Moon	22315-08-21 06:28 G	9871677.60	9871677.77	9871678.00	0.0090	0.0060 *
Earth	22316-08-22 18:57 G	9872045.12	9872045.29	9872045.50	0.0090	0.0061

Moon	22316-08-22 19:55 G	9872045.18	9872045.33	9872045.52	0.0090	0.0065 *
Moon	22317-08-25 06:00 G	9872412.55	9872412.75	9872412.97	0.0090	0.0055
Earth	22317-08-25 07:55 G	9872412.66	9872412.83	9872413.05	0.0090	0.0059 *
Earth	22318-08-27 21:21 G	9872780.19	9872780.39	9872780.60	0.0090	0.0056
Moon	22318-08-27 23:31 G	9872780.32	9872780.48	9872780.69	0.0090	0.0060 *
Moon	22319-08-30 06:43 G	9873147.58	9873147.78	9873148.01	0.0090	0.0050
Earth	22319-08-30 10:19 G	9873147.74	9873147.93	9873148.15	0.0090	0.0054 *
Earth	22320-08-31 23:45 G	9873515.28	9873515.49	9873515.70	0.0090	0.0051
Moon	22320-09-01 02:38 G	9873515.43	9873515.61	9873515.84	0.0090	0.0055 *
Moon	22321-09-03 09:07 G	9873882.67	9873882.88	9873883.11	0.0090	0.0046
Earth	22321-09-03 12:28 G	9873882.82	9873883.02	9873883.26	0.0090	0.0049 *
Earth	22322-09-06 01:40 G	9874250.36	9874250.57	9874250.81	0.0090	0.0046
Moon	22322-09-06 04:33 G	9874250.48	9874250.69	9874250.92	0.0090	0.0049 *
Moon	22323-09-08 13:12 G	9874617.84	9874618.05	9874618.28	0.0090	0.0041
Earth	22323-09-08 15:07 G	9874617.91	9874618.13	9874618.36	0.0090	0.0043 *
Earth	22324-09-10 03:21 G	9874985.43	9874985.64	9874985.90	0.0090	0.0041
Moon	22324-09-10 04:33 G	9874985.47	9874985.69	9874985.95	0.0090	0.0043 *
Earth	22325-09-12 16:33 G	9875352.97	9875353.19	9875353.44	0.0090	0.0038
Moon	22325-09-12 17:16 G	9875353.00	9875353.22	9875353.46	0.0090	0.0035 *
Moon	22326-09-15 03:50 G	9875720.43	9875720.66	9875720.91	0.0089	0.0037
Earth	22326-09-15 05:31 G	9875720.50	9875720.73	9875720.98	0.0089	0.0034 *
Earth	22327-09-17 18:14 G	9876088.03	9876088.26	9876088.51	0.0089	0.0032
Moon	22327-09-17 20:38 G	9876088.13	9876088.36	9876088.61	0.0089	0.0030 *
Moon	22328-09-19 03:36 G	9876455.41	9876455.65	9876455.90	0.0089	0.0031
Earth	22328-09-19 06:57 G	9876455.56	9876455.79	9876456.05	0.0089	0.0029 *
Earth	22329-09-21 19:40 G	9876823.09	9876823.32	9876823.58	0.0089	0.0026
Moon	22329-09-21 23:16 G	9876823.23	9876823.47	9876823.73	0.0089	0.0024 *
Moon	22330-09-24 05:02 G	9877190.47	9877190.71	9877190.97	0.0089	0.0024
Earth	22330-09-24 08:38 G	9877190.62	9877190.86	9877191.12	0.0089	0.0022 *
Earth	22331-09-26 21:36 G	9877558.15	9877558.40	9877558.65	0.0089	0.0019

Moon	22331-09-27 00:14 G	9877558.26	9877558.51	9877558.78	0.0089	0.0017	*
Moon	22332-09-28 08:09 G	9877925.60	9877925.84	9877926.09	0.0089	0.0017	
Earth	22332-09-28 10:04 G	9877925.67	9877925.92	9877926.18	0.0089	0.0016	*
Earth	22333-09-30 22:48 G	9878293.20	9878293.45	9878293.71	0.0089	0.0013	
Moon	22333-10-01 00:14 G	9878293.25	9878293.51	9878293.78	0.0089	0.0012	*
Mars	22334-10-01 12:43 G	9878658.98	9878659.03	9878659.15	0.0089	0.0086	
Earth	22334-10-03 11:45 G	9878660.73	9878660.99	9878661.25	0.0089	0.0009	
Moon	22334-10-03 12:14 G	9878660.76	9878661.01	9878661.26	0.0089	0.0010	*
Moon	22335-10-05 22:48 G	9879028.19	9879028.45	9879028.72	0.0089	0.0005	
Earth	22335-10-06 00:14 G	9879028.26	9879028.51	9879028.77	0.0089	0.0006	*
Mars	22336-08-25 04:33 G	9879352.41	9879352.69	9879352.98	0.0089	0.0013	
Earth	22336-10-07 12:43 G	9879395.78	9879396.03	9879396.29	0.0089	0.0003	
Moon	22336-10-07 15:07 G	9879395.88	9879396.13	9879396.38	0.0089	0.0003	*
Moon	22337-10-09 21:50 G	9879763.15	9879763.41	9879763.67	0.0089	0.0002	
Earth	22337-10-10 01:12 G	9879763.30	9879763.55	9879763.81	0.0089	0.0002	*
Mars	22338-07-19 20:38 G	9880046.17	9880046.36	9880046.59	0.0089	0.0061	
Earth	22338-10-12 13:26 G	9880130.81	9880131.06	9880131.32	0.0089	0.0005	
Moon	22338-10-12 17:02 G	9880130.95	9880131.21	9880131.46	0.0089	0.0004	*
Moon	22339-10-14 22:04 G	9880498.17	9880498.42	9880498.68	0.0089	0.0008	
Earth	22339-10-15 01:55 G	9880498.32	9880498.58	9880498.84	0.0089	0.0007	*
Earth	22340-10-16 13:55 G	9880865.83	9880866.08	9880866.34	0.0089	0.0011	
Moon	22340-10-16 16:48 G	9880865.95	9880866.20	9880866.47	0.0089	0.0010	*
Moon	22341-10-19 00:00 G	9881233.25	9881233.50	9881233.75	0.0089	0.0013	
Earth	22341-10-19 01:55 G	9881233.34	9881233.58	9881233.85	0.0089	0.0015	*
Earth	22342-10-21 14:09 G	9881600.85	9881601.09	9881601.35	0.0089	0.0017	
Moon	22342-10-21 15:50 G	9881600.90	9881601.16	9881601.42	0.0089	0.0018	*
Earth	22343-10-24 02:09 G	9881968.35	9881968.59	9881968.85	0.0089	0.0020	
Moon	22343-10-24 02:38 G	9881968.38	9881968.61	9881968.86	0.0089	0.0020	*
Moon	22344-10-25 13:12 G	9882335.80	9882336.05	9882336.31	0.0089	0.0024	
Earth	22344-10-25 14:24 G	9882335.86	9882336.10	9882336.36	0.0089	0.0023	*

Earth	22345-10-28 02:24 G	9882703.37	9882703.60	9882703.86	0.0089	0.0027
Moon	22345-10-28 04:48 G	9882703.47	9882703.70	9882703.95	0.0089	0.0025 *
Moon	22346-10-30 11:16 G	9883070.73	9883070.97	9883071.22	0.0089	0.0029
Earth	22346-10-30 14:38 G	9883070.88	9883071.11	9883071.36	0.0089	0.0029 *
Earth	22347-11-02 02:38 G	9883438.38	9883438.61	9883438.86	0.0089	0.0032
Moon	22347-11-02 06:00 G	9883438.52	9883438.75	9883439.00	0.0089	0.0031 *
Moon	22348-11-03 10:33 G	9883805.73	9883805.94	9883806.19	0.0089	0.0037
Earth	22348-11-03 14:24 G	9883805.88	9883806.10	9883806.35	0.0089	0.0035 *
Earth	22349-11-06 02:09 G	9884173.37	9884173.59	9884173.84	0.0089	0.0038
Moon	22349-11-06 05:02 G	9884173.49	9884173.71	9884173.97	0.0089	0.0037 *
Moon	22350-11-08 11:31 G	9884540.78	9884540.98	9884541.22	0.0089	0.0043
Earth	22350-11-08 13:55 G	9884540.87	9884541.08	9884541.32	0.0089	0.0041 *
Earth	22351-11-11 01:12 G	9884908.35	9884908.55	9884908.80	0.0089	0.0044
Moon	22351-11-11 02:38 G	9884908.40	9884908.61	9884908.87	0.0089	0.0042 *
Earth	22352-11-12 13:12 G	9885275.84	9885276.05	9885276.28	0.0089	0.0046
Moon	22352-11-12 13:12 G	9885275.86	9885276.05	9885276.28	0.0089	0.0048 *
Moon	22353-11-14 23:45 G	9885643.27	9885643.49	9885643.72	0.0089	0.0047
Earth	22353-11-15 00:43 G	9885643.33	9885643.53	9885643.75	0.0089	0.0049 *
Earth	22354-11-17 11:45 G	9886010.81	9886010.99	9886011.22	0.0089	0.0052
Moon	22354-11-17 14:09 G	9886010.91	9886011.09	9886011.31	0.0089	0.0054 *
Moon	22355-11-19 20:09 G	9886378.15	9886378.34	9886378.57	0.0089	0.0053
Earth	22355-11-19 23:31 G	9886378.29	9886378.48	9886378.70	0.0089	0.0054 *
Earth	22356-11-21 10:33 G	9886745.77	9886745.94	9886746.17	0.0089	0.0057
Moon	22356-11-21 14:09 G	9886745.92	9886746.09	9886746.30	0.0089	0.0059 *
Moon	22357-11-23 18:28 G	9887113.10	9887113.27	9887113.49	0.0089	0.0057
Earth	22357-11-23 22:19 G	9887113.26	9887113.43	9887113.64	0.0089	0.0059 *
Earth	22358-11-26 09:50 G	9887480.74	9887480.91	9887481.11	0.0089	0.0061
Moon	22358-11-26 12:43 G	9887480.86	9887481.03	9887481.23	0.0089	0.0063 *
Moon	22359-11-28 18:57 G	9887848.13	9887848.29	9887848.49	0.0089	0.0061
Earth	22359-11-28 21:21 G	9887848.22	9887848.39	9887848.58	0.0089	0.0063 *

Earth	22360-11-30 08:38 G	9888215.70	9888215.86	9888216.05	0.0089	0.0065
Moon	22360-11-30 09:36 G	9888215.75	9888215.90	9888216.09	0.0089	0.0068 *
Earth	22361-12-02 20:09 G	9888583.18	9888583.34	9888583.51	0.0089	0.0067
Moon	22361-12-02 20:09 G	9888583.20	9888583.34	9888583.53	0.0089	0.0066 *
Moon	22362-12-05 05:16 G	9888950.60	9888950.72	9888950.91	0.0089	0.0072
Earth	22362-12-05 06:57 G	9888950.65	9888950.79	9888950.97	0.0089	0.0069 *
Earth	22363-12-07 18:00 G	9889318.11	9889318.25	9889318.42	0.0089	0.0071
Moon	22363-12-07 20:38 G	9889318.21	9889318.36	9889318.53	0.0089	0.0068 *
Venus	22364-01-08 23:02 G	9889350.34	9889350.46	9889350.60	0.0089	0.0071
Venus	22364-08-21 11:45 G	9889575.83	9889575.99	9889576.18	0.0089	0.0052
Moon	22364-12-09 01:26 G	9889685.44	9889685.56	9889685.72	0.0088	0.0075
Earth	22364-12-09 04:48 G	9889685.58	9889685.70	9889685.87	0.0088	0.0073 *
Venus	22365-04-04 00:57 G	9889801.34	9889801.54	9889801.75	0.0088	0.0032
Venus	22365-11-15 13:40 G	9890026.86	9890027.07	9890027.30	0.0088	0.0013
Earth	22365-12-11 16:04 G	9890053.04	9890053.17	9890053.32	0.0088	0.0074
Moon	22365-12-11 19:12 G	9890053.17	9890053.30	9890053.47	0.0088	0.0071 *
Venus	22366-06-29 02:38 G	9890252.39	9890252.61	9890252.83	0.0088	0.0007
Moon	22366-12-13 23:02 G	9890420.37	9890420.46	9890420.60	0.0088	0.0079
Earth	22366-12-14 02:38 G	9890420.50	9890420.61	9890420.77	0.0088	0.0076 *
Venus	22367-02-09 15:21 G	9890477.93	9890478.14	9890478.35	0.0088	0.0027
Venus	22367-09-23 04:04 G	9890703.50	9890703.67	9890703.87	0.0088	0.0047
Earth	22367-12-16 13:26 G	9890787.95	9890788.06	9890788.21	0.0088	0.0077
Moon	22367-12-16 16:19 G	9890788.05	9890788.18	9890788.34	0.0088	0.0074 *
Venus	22368-05-05 17:02 G	9890929.07	9890929.21	9890929.36	0.0088	0.0066
Venus	22368-12-17 05:31 G	9891154.70	9891154.73	9891154.81	0.0088	0.0086
Moon	22368-12-17 22:04 G	9891155.35	9891155.42	9891155.55	0.0088	0.0082
Earth	22368-12-18 00:28 G	9891155.42	9891155.52	9891155.66	0.0088	0.0078 *
Earth	22369-12-20 11:31 G	9891522.88	9891522.98	9891523.10	0.0088	0.0079
Moon	22369-12-20 12:00 G	9891522.89	9891523.00	9891523.17	0.0088	0.0076 *
Earth	22370-12-22 22:19 G	9891890.33	9891890.43	9891890.55	0.0088	0.0080

Moon	22370-12-22 22:48 G	9891890.38	9891890.45	9891890.55	0.0088	0.0083 *
Moon	22371-12-25 07:26 G	9892257.70	9892257.81	9892257.96	0.0088	0.0077
Earth	22371-12-25 09:07 G	9892257.79	9892257.88	9892258.00	0.0088	0.0081 *
Earth	22372-12-26 19:40 G	9892625.24	9892625.32	9892625.44	0.0088	0.0081
Moon	22372-12-26 22:04 G	9892625.39	9892625.42	9892625.52	0.0088	0.0086 *
Mercury	22373-07-30 16:04 G	9892841.14	9892841.17	9892841.21	0.0088	0.0086
Mercury	22373-10-26 17:45 G	9892929.18	9892929.24	9892929.31	0.0088	0.0078
Moon	22373-12-29 02:52 G	9892992.53	9892992.62	9892992.76	0.0088	0.0079
Earth	22373-12-29 06:14 G	9892992.70	9892992.76	9892992.88	0.0088	0.0082 *
Mercury	22374-01-22 19:26 G	9893017.23	9893017.31	9893017.40	0.0088	0.0071
Mercury	22374-04-20 21:07 G	9893105.29	9893105.38	9893105.49	0.0088	0.0064
Mercury	22374-07-17 23:02 G	9893193.35	9893193.46	9893193.58	0.0088	0.0057
Mercury	22374-10-14 00:43 G	9893281.42	9893281.53	9893281.66	0.0088	0.0049
Earth	22374-12-31 17:02 G	9893360.14	9893360.21	9893360.32	0.0088	0.0083
Moon	22374-12-31 20:24 G	9893360.32	9893360.35	9893360.43	0.0088	0.0086 *
Mercury	22375-01-10 02:24 G	9893369.48	9893369.60	9893369.74	0.0088	0.0042
Mercury	22375-04-08 04:04 G	9893457.55	9893457.67	9893457.82	0.0088	0.0036
Mercury	22375-07-05 06:14 G	9893545.62	9893545.76	9893545.90	0.0088	0.0027
Mercury	22375-10-01 07:55 G	9893633.69	9893633.83	9893633.98	0.0088	0.0020
Mercury	22375-12-28 09:50 G	9893721.76	9893721.91	9893722.06	0.0088	0.0012
Moon	22376-01-03 00:00 G	9893727.42	9893727.50	9893727.63	0.0088	0.0080
Earth	22376-01-03 03:21 G	9893727.58	9893727.64	9893727.76	0.0088	0.0083 *
Mercury	22376-03-25 11:31 G	9893809.84	9893809.98	9893810.13	0.0088	0.0006
Mercury	22376-06-21 13:26 G	9893897.91	9893898.06	9893898.21	0.0088	0.0002
Mercury	22376-09-17 15:07 G	9893985.99	9893986.13	9893986.29	0.0088	0.0011
Mercury	22376-12-14 17:02 G	9894074.07	9894074.21	9894074.36	0.0088	0.0018
Earth	22377-01-04 13:55 G	9894095.02	9894095.08	9894095.19	0.0088	0.0083
Moon	22377-01-04 16:33 G	9894095.16	9894095.19	9894095.26	0.0088	0.0086 *
Mercury	22377-03-12 18:43 G	9894162.15	9894162.28	9894162.43	0.0088	0.0025
Mercury	22377-06-08 20:52 G	9894250.23	9894250.37	9894250.51	0.0088	0.0033



Mercury	22377-09-04 22:33 G	9894338.31	9894338.44	9894338.58	0.0088	0.0040
Mercury	22377-12-02 00:14 G	9894426.39	9894426.51	9894426.65	0.0088	0.0048
Moon	22378-01-06 23:16 G	9894462.36	9894462.47	9894462.57	0.0088	0.0080
Earth	22378-01-07 00:28 G	9894462.46	9894462.52	9894462.63	0.0088	0.0084 *
Mercury	22378-02-28 02:09 G	9894514.48	9894514.59	9894514.72	0.0088	0.0055
Mercury	22378-05-27 03:50 G	9894602.57	9894602.66	9894602.78	0.0088	0.0064
Mercury	22378-08-23 06:00 G	9894690.67	9894690.75	9894690.84	0.0088	0.0071
Mercury	22378-11-19 07:55 G	9894778.77	9894778.83	9894778.90	0.0088	0.0078
Earth	22379-01-09 10:48 G	9894829.89	9894829.95	9894830.06	0.0088	0.0083
Moon	22379-01-09 11:45 G	9894829.95	9894829.99	9894830.04	0.0088	0.0086 *
Mercury	22379-02-15 09:36 G	9894866.88	9894866.90	9894866.94	0.0088	0.0086
Earth	22380-01-11 21:07 G	9895197.33	9895197.38	9895197.49	0.0088	0.0083
Moon	22380-01-11 22:19 G	9895197.35	9895197.43	9895197.56	0.0088	0.0080 *
Moon	22381-01-13 05:45 G	9895564.71	9895564.74	9895564.82	0.0088	0.0086
Earth	22381-01-13 07:26 G	9895564.76	9895564.81	9895564.93	0.0088	0.0083 *
Earth	22382-01-15 18:14 G	9895932.19	9895932.26	9895932.36	0.0088	0.0082
Moon	22382-01-15 21:21 G	9895932.29	9895932.39	9895932.51	0.0088	0.0079 *
Moon	22383-01-18 00:57 G	9896299.50	9896299.54	9896299.63	0.0088	0.0085
Earth	22383-01-18 04:19 G	9896299.62	9896299.68	9896299.80	0.0088	0.0082 *
Earth	22384-01-20 15:07 G	9896667.04	9896667.13	9896667.24	0.0088	0.0081
Moon	22384-01-20 18:28 G	9896667.17	9896667.27	9896667.41	0.0088	0.0077 *
Moon	22385-01-21 21:50 G	9897034.38	9897034.41	9897034.51	0.0088	0.0085
Earth	22385-01-22 01:55 G	9897034.48	9897034.58	9897034.68	0.0088	0.0080 *
Earth	22386-01-24 11:45 G	9897401.91	9897401.99	9897402.12	0.0088	0.0080
Moon	22386-01-24 13:55 G	9897401.98	9897402.08	9897402.24	0.0088	0.0076 *
Moon	22387-01-26 20:24 G	9897769.30	9897769.35	9897769.46	0.0088	0.0083
Earth	22387-01-26 22:04 G	9897769.33	9897769.42	9897769.55	0.0088	0.0079 *
Moon	22388-01-29 08:24 G	9898136.73	9898136.85	9898137.02	0.0088	0.0074
Earth	22388-01-29 08:24 G	9898136.76	9898136.85	9898136.99	0.0088	0.0078 *
Earth	22389-01-30 18:28 G	9898504.18	9898504.27	9898504.43	0.0088	0.0077

Moon	22389-01-30 20:24 G	9898504.26	9898504.35	9898504.46	0.0088	0.0080	*
Moon	22390-02-02 03:21 G	9898871.49	9898871.64	9898871.79	0.0088	0.0071	
Earth	22390-02-02 04:48 G	9898871.60	9898871.70	9898871.86	0.0088	0.0076	*
Earth	22391-02-04 15:07 G	9899239.02	9899239.13	9899239.29	0.0088	0.0074	
Moon	22391-02-04 18:43 G	9899239.18	9899239.28	9899239.40	0.0088	0.0078	*
Moon	22392-02-06 21:50 G	9899606.28	9899606.41	9899606.59	0.0088	0.0069	
Earth	22392-02-07 01:26 G	9899606.44	9899606.56	9899606.72	0.0088	0.0073	*
Earth	22393-02-08 11:45 G	9899973.86	9899973.99	9899974.16	0.0088	0.0071	
Moon	22393-02-08 15:36 G	9899974.02	9899974.15	9899974.28	0.0088	0.0075	*
Moon	22394-02-10 19:12 G	9900341.14	9900341.30	9900341.48	0.0088	0.0065	
Earth	22394-02-10 22:33 G	9900341.28	9900341.44	9900341.59	0.0088	0.0069	*
Earth	22395-02-13 07:55 G	9900708.70	9900708.83	9900709.02	0.0088	0.0068	
Moon	22395-02-13 10:19 G	9900708.79	9900708.93	9900709.09	0.0088	0.0071	*
Moon	22396-02-15 17:31 G	9901076.07	9901076.23	9901076.42	0.0088	0.0062	
Earth	22396-02-15 18:28 G	9901076.13	9901076.27	9901076.47	0.0088	0.0066	*
Moon	22397-02-17 04:33 G	9901443.55	9901443.69	9901443.88	0.0088	0.0068	
Earth	22397-02-17 05:02 G	9901443.56	9901443.71	9901443.91	0.0088	0.0064	*
Earth	22398-02-19 15:21 G	9901810.98	9901811.14	9901811.34	0.0088	0.0062	
Moon	22398-02-19 17:31 G	9901811.05	9901811.23	9901811.42	0.0088	0.0058	*
Moon	22399-02-21 23:16 G	9902178.31	9902178.47	9902178.68	0.0088	0.0064	
Earth	22399-02-22 01:40 G	9902178.41	9902178.57	9902178.79	0.0088	0.0060	*
Earth	22400-02-24 12:00 G	9902545.84	9902546.00	9902546.22	0.0088	0.0058	
Moon	22400-02-24 15:50 G	9902545.97	9902546.16	9902546.37	0.0088	0.0053	*
Moon	22401-02-25 19:26 G	9902913.13	9902913.31	9902913.51	0.0088	0.0059	
Earth	22401-02-25 22:48 G	9902913.26	9902913.45	9902913.66	0.0088	0.0055	*
Earth	22402-02-28 08:52 G	9903280.69	9903280.87	9903281.10	0.0088	0.0053	
Moon	22402-02-28 12:43 G	9903280.82	9903281.03	9903281.25	0.0088	0.0048	*
Moon	22403-03-02 16:33 G	9903648.01	9903648.19	9903648.40	0.0088	0.0055	
Earth	22403-03-02 19:26 G	9903648.11	9903648.31	9903648.53	0.0088	0.0050	*
Earth	22404-03-04 05:45 G	9904015.54	9904015.74	9904015.97	0.0088	0.0048	

Moon	22404-03-04 07:12 G	9904015.59	9904015.80	9904016.05	0.0088	0.0044	*
Moon	22405-03-06 15:36 G	9904382.95	9904383.15	9904383.36	0.0088	0.0049	
Earth	22405-03-06 16:19 G	9904382.97	9904383.18	9904383.41	0.0088	0.0045	*
Moon	22406-03-09 01:40 G	9904750.34	9904750.57	9904750.82	0.0088	0.0038	
Earth	22406-03-09 02:24 G	9904750.39	9904750.60	9904750.84	0.0088	0.0043	*
Earth	22407-03-11 12:43 G	9905117.82	9905118.03	9905118.28	0.0088	0.0040	
Moon	22407-03-11 14:52 G	9905117.93	9905118.12	9905118.36	0.0088	0.0044	*
Moon	22408-03-12 21:07 G	9905485.14	9905485.38	9905485.62	0.0088	0.0032	
Earth	22408-03-12 23:31 G	9905485.26	9905485.48	9905485.73	0.0088	0.0037	*
Earth	22409-03-15 10:04 G	9905852.69	9905852.92	9905853.17	0.0088	0.0034	
Moon	22409-03-15 13:26 G	9905852.85	9905853.06	9905853.31	0.0088	0.0039	*
Moon	22410-03-17 17:16 G	9906219.99	9906220.22	9906220.48	0.0088	0.0027	
Earth	22410-03-17 20:52 G	9906220.14	9906220.37	9906220.62	0.0088	0.0031	*
Earth	22411-03-20 07:26 G	9906587.57	9906587.81	9906588.06	0.0088	0.0028	
Moon	22411-03-20 10:33 G	9906587.72	9906587.94	9906588.20	0.0088	0.0033	*
Moon	22412-03-21 15:36 G	9906954.92	9906955.15	9906955.41	0.0088	0.0021	
Earth	22412-03-21 18:14 G	9906955.02	9906955.26	9906955.51	0.0088	0.0025	*
Earth	22413-03-24 04:48 G	9907322.46	9907322.70	9907322.96	0.0088	0.0022	
Moon	22413-03-24 06:00 G	9907322.50	9907322.75	9907323.01	0.0088	0.0026	*
Moon	22414-03-26 15:07 G	9907689.89	9907690.13	9907690.38	0.0088	0.0015	
Earth	22414-03-26 15:21 G	9907689.90	9907690.14	9907690.40	0.0088	0.0019	*
Moon	22415-03-29 00:57 G	9908057.28	9908057.54	9908057.80	0.0088	0.0020	
Earth	22415-03-29 02:09 G	9908057.34	9908057.59	9908057.85	0.0088	0.0016	*
Earth	22416-03-30 12:43 G	9908424.79	9908425.03	9908425.30	0.0088	0.0013	
Moon	22416-03-30 15:21 G	9908424.89	9908425.14	9908425.39	0.0088	0.0008	*
Moon	22417-04-01 20:38 G	9908792.11	9908792.36	9908792.63	0.0088	0.0014	
Earth	22417-04-01 23:45 G	9908792.23	9908792.49	9908792.75	0.0088	0.0009	*
Earth	22418-04-04 10:33 G	9909159.68	9909159.94	9909160.19	0.0088	0.0006	
Moon	22418-04-04 14:09 G	9909159.83	9909160.09	9909160.35	0.0088	0.0002	*
Mars	22418-07-10 14:38 G	9909256.86	9909257.11	9909257.39	0.0088	0.0056	

Moon	22419-04-06 18:00 G	9909527.00	9909527.25	9909527.51	0.0088	0.0008
Earth	22419-04-06 21:21 G	9909527.13	9909527.39	9909527.65	0.0088	0.0003 *
Earth	22420-04-08 08:09 G	9909894.58	9909894.84	9909895.10	0.0088	0.0001
Moon	22420-04-08 11:31 G	9909894.72	9909894.98	9909895.24	0.0088	0.0005 *
Mars	22420-06-05 19:55 G	9909953.03	9909953.33	9909953.68	0.0088	0.0028
Moon	22421-04-10 17:02 G	9910261.96	9910262.21	9910262.46	0.0088	0.0002
Earth	22421-04-10 19:12 G	9910262.05	9910262.30	9910262.56	0.0088	0.0004 *
Earth	22422-04-13 06:14 G	9910629.50	9910629.76	9910630.02	0.0088	0.0007
Moon	22422-04-13 06:57 G	9910629.53	9910629.79	9910630.06	0.0088	0.0011 *
Earth	22423-04-15 17:16 G	9910996.97	9910997.22	9910997.48	0.0088	0.0010
Moon	22423-04-15 17:16 G	9910996.97	9910997.22	9910997.47	0.0088	0.0006 *
Moon	22424-04-17 03:07 G	9911364.37	9911364.63	9911364.89	0.0088	0.0018
Earth	22424-04-17 04:33 G	9911364.44	9911364.69	9911364.95	0.0088	0.0013 *
Earth	22425-04-19 15:36 G	9911731.90	9911732.15	9911732.41	0.0088	0.0016
Moon	22425-04-19 18:14 G	9911732.01	9911732.26	9911732.51	0.0088	0.0012 *
Moon	22426-04-21 23:45 G	9912099.25	9912099.49	9912099.76	0.0088	0.0024
Earth	22426-04-22 02:52 G	9912099.38	9912099.62	9912099.88	0.0088	0.0020 *
Earth	22427-04-24 14:09 G	9912466.85	9912467.09	9912467.35	0.0088	0.0023
Moon	22427-04-24 17:45 G	9912467.00	9912467.24	9912467.50	0.0088	0.0018 *
Moon	22428-04-25 22:04 G	9912834.19	9912834.42	9912834.67	0.0088	0.0030
Earth	22428-04-26 01:40 G	9912834.32	9912834.57	9912834.82	0.0088	0.0026 *
Earth	22429-04-28 12:28 G	9913201.80	9913202.02	9913202.28	0.0088	0.0030
Moon	22429-04-28 16:04 G	9913201.92	9913202.17	9913202.43	0.0088	0.0025 *
Moon	22430-04-30 22:04 G	9913569.20	9913569.42	9913569.66	0.0088	0.0037
Earth	22430-04-30 23:45 G	9913569.27	9913569.49	9913569.75	0.0088	0.0033 *
Earth	22431-05-03 11:16 G	9913936.75	9913936.97	9913937.23	0.0088	0.0036
Moon	22431-05-03 12:43 G	9913936.78	9913937.03	9913937.28	0.0088	0.0031 *
Earth	22432-05-04 23:16 G	9914304.24	9914304.47	9914304.71	0.0088	0.0038
Moon	22432-05-04 22:48 G	9914304.25	9914304.45	9914304.69	0.0088	0.0043 *
Moon	22433-05-07 08:38 G	9914671.64	9914671.86	9914672.12	0.0088	0.0037

Earth	22433-05-07 10:48 G	9914671.72	9914671.95	9914672.18	0.0088	0.0041	*
Earth	22434-05-09 22:19 G	9915039.22	9915039.43	9915039.67	0.0088	0.0044	
Moon	22434-05-10 00:57 G	9915039.34	9915039.54	9915039.76	0.0088	0.0048	*
Moon	22435-05-12 06:57 G	9915406.57	9915406.79	9915407.04	0.0088	0.0043	
Earth	22435-05-12 10:04 G	9915406.72	9915406.92	9915407.16	0.0088	0.0047	*
Earth	22436-05-13 21:50 G	9915774.21	9915774.41	9915774.64	0.0088	0.0050	
Moon	22436-05-14 01:55 G	9915774.38	9915774.58	9915774.79	0.0088	0.0054	*
Moon	22437-05-16 06:57 G	9916141.58	9916141.79	9916142.01	0.0088	0.0048	
Earth	22437-05-16 09:36 G	9916141.72	9916141.90	9916142.14	0.0088	0.0053	*
Earth	22438-05-18 21:50 G	9916509.22	9916509.41	9916509.62	0.0089	0.0055	
Moon	22438-05-19 00:43 G	9916509.36	9916509.53	9916509.75	0.0089	0.0059	*
Moon	22439-05-21 07:40 G	9916876.64	9916876.82	9916877.04	0.0089	0.0054	
Earth	22439-05-21 09:36 G	9916876.73	9916876.90	9916877.12	0.0089	0.0058	*
Earth	22440-05-22 21:50 G	9917244.23	9917244.41	9917244.61	0.0089	0.0060	
Moon	22440-05-22 22:19 G	9917244.27	9917244.43	9917244.65	0.0089	0.0064	*
Earth	22441-05-25 09:21 G	9917611.73	9917611.89	9917612.10	0.0089	0.0063	
Moon	22441-05-25 09:36 G	9917611.73	9917611.90	9917612.10	0.0089	0.0059	*
Moon	22442-05-27 19:40 G	9917979.18	9917979.32	9917979.52	0.0089	0.0069	
Earth	22442-05-27 21:36 G	9917979.24	9917979.40	9917979.60	0.0089	0.0065	*
Earth	22443-05-30 09:36 G	9918346.75	9918346.90	9918347.09	0.0089	0.0067	
Moon	22443-05-30 12:28 G	9918346.85	9918347.02	9918347.20	0.0089	0.0063	*
Moon	22444-05-31 18:14 G	9918714.15	9918714.26	9918714.45	0.0089	0.0073	
Earth	22444-05-31 21:50 G	9918714.27	9918714.41	9918714.59	0.0089	0.0069	*
Earth	22445-06-03 09:50 G	9919081.78	9919081.91	9919082.09	0.0089	0.0071	
Moon	22445-06-03 13:40 G	9919081.92	9919082.07	9919082.25	0.0089	0.0067	*
Moon	22446-06-05 19:12 G	9919449.18	9919449.30	9919449.44	0.0089	0.0076	
Earth	22446-06-05 22:04 G	9919449.30	9919449.42	9919449.59	0.0089	0.0073	*
Venus	22446-10-06 22:04 G	9919572.40	9919572.42	9919572.48	0.0089	0.0087	
Venus	22447-05-20 11:31 G	9919797.84	9919797.98	9919798.13	0.0089	0.0067	
Earth	22447-06-08 10:33 G	9919816.82	9919816.94	9919817.10	0.0089	0.0075	

Moon	22447-06-08 13:40 G	9919816.95	9919817.07	9919817.25	0.0089	0.0072 *
Venus	22448-01-01 00:43 G	9920023.35	9920023.53	9920023.72	0.0089	0.0047
Moon	22448-06-09 21:07 G	9920184.29	9920184.38	9920184.51	0.0089	0.0080
Earth	22448-06-09 23:31 G	9920184.35	9920184.48	9920184.62	0.0089	0.0076 *
Venus	22448-08-13 13:55 G	9920248.87	9920249.08	9920249.29	0.0089	0.0027
Venus	22449-03-27 03:07 G	9920474.42	9920474.63	9920474.86	0.0089	0.0008
Earth	22449-06-12 11:31 G	9920551.88	9920551.98	9920552.12	0.0089	0.0078
Moon	22449-06-12 12:43 G	9920551.90	9920552.03	9920552.19	0.0089	0.0075 *
Venus	22449-11-07 16:19 G	9920699.97	9920700.18	9920700.40	0.0089	0.0013
Earth	22450-06-15 00:28 G	9920919.41	9920919.52	9920919.64	0.0089	0.0079
Moon	22450-06-15 00:14 G	9920919.43	9920919.51	9920919.61	0.0089	0.0082 *
Venus	22450-06-21 05:31 G	9920925.53	9920925.73	9920925.94	0.0089	0.0032
Venus	22451-02-01 18:28 G	9921151.10	9921151.27	9921151.46	0.0089	0.0052
Moon	22451-06-17 11:16 G	9921286.85	9921286.97	9921287.11	0.0089	0.0077
Earth	22451-06-17 12:43 G	9921286.95	9921287.03	9921287.16	0.0089	0.0081 *
Venus	22451-09-15 07:26 G	9921376.70	9921376.81	9921376.95	0.0089	0.0072
Earth	22452-06-19 01:12 G	9921654.47	9921654.55	9921654.67	0.0089	0.0082
Moon	22452-06-19 03:21 G	9921654.59	9921654.64	9921654.74	0.0089	0.0085 *
Moon	22453-06-21 11:02 G	9922021.86	9922021.96	9922022.08	0.0089	0.0081
Earth	22453-06-21 13:55 G	9922022.01	9922022.08	9922022.19	0.0089	0.0083 *
Earth	22454-06-24 02:24 G	9922389.54	9922389.60	9922389.70	0.0089	0.0084
Moon	22454-06-24 06:00 G	9922389.72	9922389.75	9922389.82	0.0089	0.0087
Moon	22455-06-26 11:31 G	9922756.91	9922756.98	9922757.10	0.0089	0.0083
Earth	22455-06-26 14:52 G	9922757.07	9922757.12	9922757.22	0.0089	0.0086 *
Earth	22456-06-28 03:21 G	9923124.60	9923124.64	9923124.74	0.0089	0.0086
Moon	22456-06-28 07:12 G	9923124.77	9923124.80	9923124.87	0.0089	0.0087
Mercury	22457-01-22 22:48 G	9923333.45	9923333.45	9923333.46	0.0089	0.0089
Mercury	22457-04-21 01:12 G	9923421.49	9923421.55	9923421.63	0.0089	0.0080
Moon	22457-06-30 14:09 G	9923492.03	9923492.09	9923492.19	0.0089	0.0084
Earth	22457-06-30 16:19 G	9923492.14	9923492.18	9923492.26	0.0089	0.0087 *

Mercury	22457-07-18 03:50 G	9923509.57	9923509.66	9923509.77	0.0089	0.0072
Mercury	22457-10-14 06:28 G	9923597.66	9923597.77	9923597.90	0.0089	0.0063
Mercury	22458-01-10 09:21 G	9923685.75	9923685.89	9923686.02	0.0089	0.0054
Mercury	22458-04-08 11:31 G	9923773.85	9923773.98	9923774.14	0.0089	0.0046
Earth	22458-07-03 04:48 G	9923859.68	9923859.70	9923859.79	0.0089	0.0087
Moon	22458-07-03 06:14 G	9923859.75	9923859.76	9923859.83	0.0089	0.0089 *
Mercury	22458-07-05 14:09 G	9923861.95	9923862.09	9923862.26	0.0089	0.0037
Mercury	22458-10-01 17:02 G	9923950.05	9923950.21	9923950.37	0.0089	0.0027
Mercury	22458-12-28 19:40 G	9924038.15	9924038.32	9924038.48	0.0089	0.0018
Mercury	22459-03-26 22:04 G	9924126.26	9924126.42	9924126.59	0.0089	0.0010
Mercury	22459-06-23 00:43 G	9924214.36	9924214.53	9924214.69	0.0089	0.0002
Moon	22459-07-05 17:31 G	9924227.19	9924227.23	9924227.32	0.0089	0.0086
Earth	22459-07-05 17:45 G	9924227.22	9924227.24	9924227.32	0.0089	0.0088 *
Mercury	22459-09-19 03:07 G	9924302.47	9924302.63	9924302.80	0.0089	0.0008
Mercury	22459-12-16 05:31 G	9924390.57	9924390.73	9924390.90	0.0089	0.0017
Mercury	22460-03-13 07:55 G	9924478.68	9924478.83	9924479.00	0.0089	0.0025
Mercury	22460-06-09 10:33 G	9924566.79	9924566.94	9924567.10	0.0089	0.0033
Moon	22460-07-07 05:31 G	9924594.73	9924594.73	9924594.75	0.0089	0.0089
Earth	22460-07-07 06:43 G	9924594.75	9924594.78	9924594.85	0.0089	0.0088 *
Mercury	22460-09-05 12:57 G	9924654.90	9924655.04	9924655.19	0.0089	0.0042
Mercury	22460-12-02 15:21 G	9924743.01	9924743.14	9924743.28	0.0089	0.0051
Mercury	22461-02-28 17:45 G	9924831.13	9924831.24	9924831.37	0.0089	0.0059
Mercury	22461-05-27 20:09 G	9924919.25	9924919.34	9924919.46	0.0089	0.0068
Earth	22461-07-09 19:55 G	9924962.30	9924962.33	9924962.39	0.0089	0.0088
Moon	22461-07-09 21:50 G	9924962.37	9924962.41	9924962.49	0.0089	0.0086 *
Mercury	22461-08-23 22:48 G	9925007.37	9925007.45	9925007.54	0.0089	0.0076
Mercury	22461-11-20 00:57 G	9925095.50	9925095.54	9925095.61	0.0089	0.0084
Moon	22462-07-12 05:45 G	9925329.73	9925329.74	9925329.80	0.0089	0.0089
Earth	22462-07-12 08:52 G	9925329.84	9925329.87	9925329.94	0.0089	0.0088
Earth	22463-07-14 21:50 G	9925697.38	9925697.41	9925697.48	0.0089	0.0088

Moon	22463-07-15 01:12 G	9925697.52	9925697.55	9925697.65	0.0089	0.0087
Moon	22464-07-16 07:40 G	9926064.79	9926064.82	9926064.88	0.0089	0.0088
Earth	22464-07-16 10:48 G	9926064.92	9926064.95	9926065.04	0.0089	0.0087
Earth	22465-07-19 00:00 G	9926432.45	9926432.50	9926432.58	0.0089	0.0087
Moon	22465-07-19 03:21 G	9926432.60	9926432.64	9926432.73	0.0089	0.0087
Moon	22466-07-21 10:19 G	9926799.91	9926799.93	9926800.02	0.0089	0.0088
Earth	22466-07-21 12:43 G	9926800.00	9926800.03	9926800.13	0.0089	0.0087 *
Earth	22467-07-24 01:55 G	9927167.53	9927167.58	9927167.68	0.0089	0.0086
Moon	22467-07-24 03:36 G	9927167.60	9927167.65	9927167.76	0.0089	0.0086 *
Moon	22468-07-25 14:09 G	9927535.04	9927535.09	9927535.20	0.0089	0.0085
Earth	22468-07-25 14:52 G	9927535.06	9927535.12	9927535.23	0.0089	0.0085 *
Moon	22469-07-28 03:07 G	9927902.54	9927902.63	9927902.74	0.0089	0.0083
Earth	22469-07-28 03:50 G	9927902.60	9927902.66	9927902.78	0.0089	0.0084 *
Earth	22470-07-30 17:02 G	9928270.13	9928270.21	9928270.33	0.0089	0.0083
Moon	22470-07-30 18:28 G	9928270.21	9928270.27	9928270.40	0.0089	0.0083 *
Moon	22471-08-02 03:21 G	9928637.55	9928637.64	9928637.77	0.0089	0.0082
Earth	22471-08-02 06:00 G	9928637.67	9928637.75	9928637.89	0.0089	0.0082 *
Earth	22472-08-03 19:26 G	9929005.21	9929005.31	9929005.44	0.0089	0.0080
Moon	22472-08-03 22:48 G	9929005.36	9929005.45	9929005.59	0.0089	0.0080 *
Moon	22473-08-06 05:02 G	9929372.61	9929372.71	9929372.85	0.0089	0.0080
Earth	22473-08-06 08:24 G	9929372.76	9929372.85	9929373.00	0.0089	0.0079 *
Jupiter	22474-06-17 08:52 G	9929687.44	9929687.87	9929688.38	0.0089	0.0039
Earth	22474-08-08 21:50 G	9929740.30	9929740.41	9929740.56	0.0089	0.0077
Moon	22474-08-09 01:55 G	9929740.44	9929740.58	9929740.73	0.0089	0.0075 *
Moon	22475-08-11 08:52 G	9930107.75	9930107.87	9930108.01	0.0089	0.0076
Earth	22475-08-11 11:16 G	9930107.85	9930107.97	9930108.13	0.0089	0.0075 *
Earth	22476-08-13 00:28 G	9930475.38	9930475.52	9930475.68	0.0089	0.0073
Moon	22476-08-13 02:38 G	9930475.46	9930475.61	9930475.79	0.0089	0.0071 *
Moon	22477-08-15 12:43 G	9930842.90	9930843.03	9930843.19	0.0090	0.0073
Earth	22477-08-15 13:40 G	9930842.92	9930843.07	9930843.24	0.0090	0.0071 *



Moon	22478-08-18 01:55 G	9931210.43	9931210.58	9931210.78	0.0090	0.0068
Earth	22478-08-18 02:52 G	9931210.47	9931210.62	9931210.79	0.0090	0.0069 *
Earth	22479-08-20 15:36 G	9931578.00	9931578.15	9931578.34	0.0090	0.0067
Moon	22479-08-20 17:02 G	9931578.06	9931578.21	9931578.38	0.0090	0.0069 *
Moon	22480-08-22 02:24 G	9931945.41	9931945.60	9931945.79	0.0090	0.0062
Earth	22480-08-22 04:33 G	9931945.54	9931945.69	9931945.89	0.0090	0.0065 *
Earth	22481-08-24 17:45 G	9932313.07	9932313.24	9932313.44	0.0090	0.0062
Moon	22481-08-24 21:07 G	9932313.21	9932313.38	9932313.57	0.0090	0.0064 *
Moon	22482-08-27 03:21 G	9932680.46	9932680.64	9932680.86	0.0090	0.0057
Earth	22482-08-27 06:43 G	9932680.61	9932680.78	9932680.99	0.0090	0.0060 *
Earth	22483-08-29 19:55 G	9933048.14	9933048.33	9933048.54	0.0090	0.0057
Moon	22483-08-29 23:31 G	9933048.30	9933048.48	9933048.69	0.0090	0.0060 *
Moon	22484-08-31 06:00 G	9933415.56	9933415.75	9933415.97	0.0090	0.0052
Earth	22484-08-31 09:07 G	9933415.68	9933415.88	9933416.09	0.0090	0.0054 *
Earth	22485-09-02 21:36 G	9933783.22	9933783.40	9933783.64	0.0090	0.0052
Moon	22485-09-03 00:28 G	9933783.32	9933783.52	9933783.74	0.0090	0.0055 *
Moon	22486-09-05 09:50 G	9934150.71	9934150.91	9934151.14	0.0090	0.0046
Earth	22486-09-05 11:02 G	9934150.76	9934150.96	9934151.20	0.0090	0.0049 *
Moon	22487-09-08 00:14 G	9934518.28	9934518.51	9934518.73	0.0090	0.0048
Earth	22487-09-08 00:00 G	9934518.30	9934518.50	9934518.74	0.0090	0.0046 *
Earth	22488-09-09 13:12 G	9934885.84	9934886.05	9934886.29	0.0090	0.0043
Moon	22488-09-09 13:55 G	9934885.88	9934886.08	9934886.32	0.0090	0.0040 *
Moon	22489-09-11 23:45 G	9935253.27	9935253.49	9935253.74	0.0090	0.0043
Earth	22489-09-12 02:09 G	9935253.37	9935253.59	9935253.84	0.0090	0.0040 *
Earth	22490-09-14 14:52 G	9935620.90	9935621.12	9935621.38	0.0090	0.0037
Moon	22490-09-14 18:00 G	9935621.03	9935621.25	9935621.50	0.0090	0.0034 *
Moon	22491-09-17 00:43 G	9935988.30	9935988.53	9935988.77	0.0089	0.0037
Earth	22491-09-17 04:19 G	9935988.44	9935988.68	9935988.92	0.0089	0.0033 *
Earth	22492-09-18 16:33 G	9936355.96	9936356.19	9936356.44	0.0089	0.0030
Moon	22492-09-18 20:24 G	9936356.11	9936356.35	9936356.60	0.0089	0.0026 *

Moon	22493-09-21 02:09 G	9936723.37	9936723.59	9936723.85	0.0089	0.0031
Earth	22493-09-21 05:16 G	9936723.49	9936723.72	9936723.98	0.0089	0.0027 *
Earth	22494-09-23 18:00 G	9937091.01	9937091.25	9937091.51	0.0089	0.0024
Moon	22494-09-23 21:07 G	9937091.12	9937091.38	9937091.64	0.0089	0.0019 *
Moon	22495-09-26 05:31 G	9937458.49	9937458.73	9937458.97	0.0089	0.0024
Earth	22495-09-26 06:43 G	9937458.54	9937458.78	9937459.04	0.0089	0.0020 *
Earth	22496-09-27 19:26 G	9937826.06	9937826.31	9937826.57	0.0089	0.0017
Moon	22496-09-27 19:40 G	9937826.06	9937826.32	9937826.59	0.0089	0.0013 *
Earth	22497-09-30 08:09 G	9938193.59	9938193.84	9938194.10	0.0089	0.0013
Moon	22497-09-30 08:38 G	9938193.63	9938193.86	9938194.12	0.0089	0.0018 *
Moon	22498-10-02 18:43 G	9938561.01	9938561.28	9938561.54	0.0089	0.0005
Earth	22498-10-02 20:52 G	9938561.12	9938561.37	9938561.63	0.0089	0.0010 *
Earth	22499-10-05 09:36 G	9938928.64	9938928.90	9938929.16	0.0089	0.0006
Moon	22499-10-05 12:28 G	9938928.77	9938929.02	9938929.27	0.0089	0.0010 *
Mars	22500-04-10 18:43 G	9939116.05	9939116.28	9939116.57	0.0089	0.0040
Moon	22500-10-07 18:57 G	9939296.03	9939296.29	9939296.55	0.0089	0.0002
Earth	22500-10-07 22:19 G	9939296.17	9939296.43	9939296.69	0.0089	0.0003 *
Earth	22501-10-10 10:48 G	9939663.69	9939663.95	9939664.21	0.0089	0.0001
Moon	22501-10-10 14:38 G	9939663.85	9939664.11	9939664.37	0.0089	0.0004 *
Mars	22502-03-05 10:48 G	9939809.69	9939809.95	9939810.22	0.0089	0.0034
Moon	22502-10-12 20:24 G	9940031.10	9940031.35	9940031.60	0.0089	0.0009
Earth	22502-10-12 23:31 G	9940031.22	9940031.48	9940031.74	0.0089	0.0004 *
Earth	22503-10-15 11:31 G	9940398.73	9940398.98	9940399.24	0.0089	0.0008
Moon	22503-10-15 14:38 G	9940398.85	9940399.11	9940399.37	0.0089	0.0003 *
Moon	22504-10-16 22:33 G	9940766.19	9940766.44	9940766.68	0.0089	0.0016
Earth	22504-10-16 23:45 G	9940766.25	9940766.49	9940766.76	0.0089	0.0012 *
Earth	22505-10-19 12:14 G	9941133.76	9941134.01	9941134.27	0.0089	0.0015
Moon	22505-10-19 12:43 G	9941133.76	9941134.03	9941134.30	0.0089	0.0010 *
Earth	22506-10-22 00:14 G	9941501.26	9941501.51	9941501.77	0.0089	0.0018
Moon	22506-10-22 00:43 G	9941501.29	9941501.53	9941501.78	0.0089	0.0022 *

Moon	22507-10-24 10:19 G	9941868.67	9941868.93	9941869.19	0.0089	0.0017
Earth	22507-10-24 12:28 G	9941868.77	9941869.02	9941869.27	0.0089	0.0021 *
Earth	22508-10-26 00:28 G	9942236.28	9942236.52	9942236.77	0.0089	0.0025
Moon	22508-10-26 03:07 G	9942236.40	9942236.63	9942236.88	0.0089	0.0029 *
Moon	22509-10-28 09:07 G	9942603.64	9942603.88	9942604.14	0.0089	0.0023
Earth	22509-10-28 12:28 G	9942603.79	9942604.02	9942604.28	0.0089	0.0028 *
Earth	22510-10-31 00:28 G	9942971.29	9942971.52	9942971.77	0.0089	0.0031
Moon	22510-10-31 04:04 G	9942971.45	9942971.67	9942971.92	0.0089	0.0036 *
Moon	22511-11-02 09:21 G	9943338.66	9943338.89	9943339.14	0.0089	0.0030
Earth	22511-11-02 12:43 G	9943338.80	9943339.03	9943339.27	0.0089	0.0034 *
Earth	22512-11-04 00:43 G	9943706.30	9943706.53	9943706.77	0.0089	0.0037
Moon	22512-11-04 03:21 G	9943706.43	9943706.64	9943706.89	0.0089	0.0042 *
Moon	22513-11-06 11:02 G	9944073.75	9944073.96	9944074.20	0.0089	0.0036
Earth	22513-11-06 12:28 G	9944073.81	9944074.02	9944074.27	0.0089	0.0041 *
Earth	22514-11-09 00:43 G	9944441.31	9944441.53	9944441.75	0.0089	0.0043
Moon	22514-11-09 01:12 G	9944441.33	9944441.55	9944441.78	0.0089	0.0047 *
Earth	22515-11-11 12:00 G	9944808.80	9944809.00	9944809.24	0.0089	0.0047
Moon	22515-11-11 12:43 G	9944808.82	9944809.03	9944809.26	0.0089	0.0042 *
Moon	22516-11-12 21:36 G	9945176.21	9945176.40	9945176.63	0.0089	0.0054
Earth	22516-11-13 00:00 G	9945176.30	9945176.50	9945176.72	0.0089	0.0049 *
Earth	22517-11-15 11:31 G	9945543.78	9945543.98	9945544.20	0.0089	0.0052
Moon	22517-11-15 14:09 G	9945543.89	9945544.09	9945544.31	0.0089	0.0048 *
Moon	22518-11-17 19:55 G	9945911.14	9945911.33	9945911.52	0.0089	0.0059
Earth	22518-11-17 22:48 G	9945911.27	9945911.45	9945911.67	0.0089	0.0055 *
Earth	22519-11-20 10:04 G	9946278.75	9946278.92	9946279.14	0.0089	0.0058
Moon	22519-11-20 13:55 G	9946278.89	9946279.08	9946279.30	0.0089	0.0053 *
Moon	22520-11-21 18:57 G	9946646.12	9946646.29	9946646.47	0.0089	0.0064
Earth	22520-11-21 21:50 G	9946646.24	9946646.41	9946646.61	0.0089	0.0060 *
Earth	22521-11-24 08:52 G	9947013.72	9947013.87	9947014.08	0.0089	0.0063
Moon	22521-11-24 12:28 G	9947013.83	9947014.02	9947014.22	0.0089	0.0058 *

Moon	22522-11-26 19:26 G	9947381.16	9947381.31	9947381.46	0.0089	0.0069
Earth	22522-11-26 20:24 G	9947381.19	9947381.35	9947381.54	0.0089	0.0065 *
Earth	22523-11-29 07:55 G	9947748.67	9947748.83	9947749.01	0.0089	0.0067
Moon	22523-11-29 08:24 G	9947748.68	9947748.85	9947749.05	0.0089	0.0063 *
Earth	22524-11-30 19:26 G	9948116.16	9948116.31	9948116.47	0.0089	0.0069
Moon	22524-11-30 19:26 G	9948116.20	9948116.31	9948116.48	0.0089	0.0074 *
Moon	22525-12-03 04:04 G	9948483.52	9948483.67	9948483.86	0.0089	0.0067
Earth	22525-12-03 06:14 G	9948483.64	9948483.76	9948483.94	0.0089	0.0072 *
Earth	22526-12-05 18:00 G	9948851.11	9948851.25	9948851.40	0.0089	0.0073
Moon	22526-12-05 20:38 G	9948851.24	9948851.36	9948851.49	0.0089	0.0077 *
Moon	22527-12-08 01:26 G	9949218.42	9949218.56	9949218.73	0.0089	0.0071
Earth	22527-12-08 05:02 G	9949218.58	9949218.71	9949218.85	0.0089	0.0075 *
Venus	22528-04-12 10:33 G	9949344.84	9949344.94	9949345.05	0.0089	0.0078
Venus	22528-11-23 23:02 G	9949570.32	9949570.46	9949570.64	0.0089	0.0059
Earth	22528-12-09 15:50 G	9949586.05	9949586.16	9949586.30	0.0089	0.0077
Moon	22528-12-09 19:40 G	9949586.23	9949586.32	9949586.43	0.0089	0.0081 *
Venus	22529-07-07 12:14 G	9949795.82	9949796.01	9949796.21	0.0089	0.0039
Moon	22529-12-11 23:45 G	9949953.37	9949953.49	9949953.64	0.0088	0.0075
Earth	22529-12-12 02:38 G	9949953.52	9949953.61	9949953.76	0.0088	0.0079 *
Venus	22530-02-18 00:57 G	9950021.33	9950021.54	9950021.76	0.0088	0.0020
Venus	22530-10-01 14:09 G	9950246.87	9950247.09	9950247.31	0.0088	0.0001
Earth	22530-12-14 13:40 G	9950320.98	9950321.07	9950321.19	0.0088	0.0080
Moon	22530-12-14 16:04 G	9950321.12	9950321.17	9950321.29	0.0088	0.0084 *
Venus	22531-05-15 02:52 G	9950472.41	9950472.62	9950472.84	0.0088	0.0020
Moon	22531-12-16 23:16 G	9950688.37	9950688.47	9950688.61	0.0088	0.0078
Earth	22531-12-17 00:14 G	9950688.44	9950688.51	9950688.64	0.0088	0.0082 *
Venus	22531-12-26 15:21 G	9950697.96	9950698.14	9950698.35	0.0088	0.0039
Venus	22532-08-08 04:04 G	9950923.52	9950923.67	9950923.85	0.0088	0.0059
Earth	22532-12-18 11:16 G	9951055.90	9951055.97	9951056.09	0.0088	0.0083
Moon	22532-12-18 11:31 G	9951055.94	9951055.98	9951056.07	0.0088	0.0086 *

Venus	22533-03-21 17:16 G	9951149.12	9951149.22	9951149.32	0.0088	0.0078
Earth	22533-12-20 22:04 G	9951423.36	9951423.42	9951423.52	0.0088	0.0084
Moon	22533-12-20 22:48 G	9951423.37	9951423.45	9951423.58	0.0088	0.0080 *
Moon	22534-12-23 06:43 G	9951790.78	9951790.78	9951790.80	0.0088	0.0088
Earth	22534-12-23 08:52 G	9951790.82	9951790.87	9951790.97	0.0088	0.0085
Earth	22535-12-25 19:40 G	9952158.28	9952158.32	9952158.40	0.0088	0.0085
Moon	22535-12-25 22:19 G	9952158.37	9952158.43	9952158.55	0.0088	0.0082 *
Earth	22536-12-27 06:14 G	9952525.74	9952525.76	9952525.85	0.0088	0.0087
Earth	22537-12-29 17:45 G	9952893.20	9952893.24	9952893.29	0.0088	0.0087
Moon	22537-12-29 20:38 G	9952893.30	9952893.36	9952893.48	0.0088	0.0083
Mercury	22538-04-27 15:21 G	9953012.11	9953012.14	9953012.21	0.0088	0.0083
Mercury	22538-07-24 17:31 G	9953100.16	9953100.23	9953100.31	0.0088	0.0075
Mercury	22538-10-20 19:12 G	9953188.21	9953188.30	9953188.40	0.0088	0.0067
Earth	22539-01-01 03:50 G	9953260.65	9953260.66	9953260.72	0.0088	0.0088
Mercury	22539-01-16 20:52 G	9953276.27	9953276.37	9953276.48	0.0088	0.0060
Mercury	22539-04-14 22:33 G	9953364.33	9953364.44	9953364.57	0.0088	0.0053
Mercury	22539-07-12 00:28 G	9953452.40	9953452.52	9953452.65	0.0088	0.0046
Mercury	22539-10-08 02:09 G	9953540.46	9953540.59	9953540.73	0.0088	0.0038
Earth	22540-01-03 15:07 G	9953628.11	9953628.13	9953628.16	0.0088	0.0088
Moon	22540-01-03 17:16 G	9953628.17	9953628.22	9953628.32	0.0088	0.0085
Mercury	22540-01-04 03:50 G	9953628.53	9953628.66	9953628.81	0.0088	0.0031
Mercury	22540-04-01 05:45 G	9953716.60	9953716.74	9953716.89	0.0088	0.0024
Mercury	22540-06-28 07:40 G	9953804.67	9953804.82	9953804.97	0.0088	0.0016
Mercury	22540-09-24 09:21 G	9953892.75	9953892.89	9953893.04	0.0088	0.0009
Mercury	22540-12-21 11:16 G	9953980.82	9953980.97	9953981.12	0.0088	0.0001
Earth	22541-01-05 01:26 G	9953995.56	9953995.56	9953995.60	0.0088	0.0088
Mercury	22541-03-19 12:57 G	9954068.90	9954069.04	9954069.19	0.0088	0.0007
Mercury	22541-06-15 14:52 G	9954156.97	9954157.12	9954157.27	0.0088	0.0014
Mercury	22541-09-11 16:48 G	9954245.05	9954245.20	9954245.34	0.0088	0.0021
Mercury	22541-12-08 18:28 G	9954333.13	9954333.27	9954333.42	0.0088	0.0029

Moon	22542-01-07 11:45 G	9954362.95	9954362.99	9954363.08	0.0088	0.0085
Earth	22542-01-07 12:14 G	9954363.01	9954363.01	9954363.02	0.0088	0.0088 *
Mercury	22542-03-06 20:24 G	9954421.21	9954421.35	9954421.49	0.0088	0.0036
Mercury	22542-06-02 22:04 G	9954509.30	9954509.42	9954509.56	0.0088	0.0044
Mercury	22542-08-29 23:45 G	9954597.38	9954597.49	9954597.63	0.0088	0.0052
Mercury	22542-11-26 01:55 G	9954685.47	9954685.58	9954685.69	0.0088	0.0059
Earth	22543-01-09 22:33 G	9954730.44	9954730.44	9954730.47	0.0088	0.0088
Mercury	22543-02-22 03:36 G	9954773.56	9954773.65	9954773.76	0.0088	0.0067
Mercury	22543-05-21 05:45 G	9954861.66	9954861.74	9954861.82	0.0088	0.0075
Mercury	22543-08-17 07:26 G	9954949.77	9954949.81	9954949.87	0.0088	0.0082
Moon	22544-01-12 06:00 G	9955097.70	9955097.75	9955097.85	0.0088	0.0084
Earth	22544-01-12 09:07 G	9955097.88	9955097.88	9955097.90	0.0088	0.0088
Earth	22545-01-13 19:12 G	9955465.30	9955465.30	9955465.34	0.0088	0.0088
Moon	22546-01-16 02:09 G	9955832.53	9955832.59	9955832.68	0.0088	0.0084
Earth	22546-01-16 06:00 G	9955832.73	9955832.75	9955832.79	0.0088	0.0087
Earth	22547-01-18 15:50 G	9956200.15	9956200.16	9956200.23	0.0088	0.0087
Moon	22548-01-20 23:31 G	9956567.43	9956567.48	9956567.58	0.0088	0.0084
Earth	22548-01-21 02:38 G	9956567.58	9956567.61	9956567.67	0.0088	0.0086 *
Earth	22549-01-22 13:12 G	9956935.00	9956935.05	9956935.12	0.0088	0.0085
Moon	22549-01-22 15:21 G	9956935.14	9956935.14	9956935.17	0.0088	0.0088
Moon	22550-01-24 22:33 G	9957302.38	9957302.44	9957302.56	0.0088	0.0082
Earth	22550-01-24 23:02 G	9957302.42	9957302.46	9957302.56	0.0088	0.0085 *
Earth	22551-01-27 09:21 G	9957669.85	9957669.89	9957670.01	0.0088	0.0084
Moon	22551-01-27 09:07 G	9957669.86	9957669.88	9957669.97	0.0088	0.0086 *
Earth	22552-01-29 19:55 G	9958037.28	9958037.33	9958037.45	0.0088	0.0083
Moon	22552-01-29 21:50 G	9958037.33	9958037.41	9958037.53	0.0088	0.0080 *
Moon	22553-01-31 04:04 G	9958404.60	9958404.67	9958404.74	0.0088	0.0084
Earth	22553-01-31 06:43 G	9958404.70	9958404.78	9958404.89	0.0088	0.0081 *
Earth	22554-02-02 16:48 G	9958772.12	9958772.20	9958772.33	0.0088	0.0080
Moon	22554-02-02 19:55 G	9958772.24	9958772.33	9958772.47	0.0088	0.0078 *

Moon	22555-02-04 23:31 G	9959139.40	9959139.48	9959139.59	0.0088	0.0081
Earth	22555-02-05 02:52 G	9959139.54	9959139.62	9959139.77	0.0088	0.0079 *
Earth	22556-02-07 13:26 G	9959506.96	9959507.06	9959507.20	0.0088	0.0077
Moon	22556-02-07 16:33 G	9959507.07	9959507.19	9959507.35	0.0088	0.0074 *
Moon	22557-02-08 21:21 G	9959874.28	9959874.39	9959874.52	0.0088	0.0077
Earth	22557-02-08 23:45 G	9959874.38	9959874.49	9959874.64	0.0088	0.0075 *
Earth	22558-02-11 09:36 G	9960241.79	9960241.90	9960242.07	0.0088	0.0074
Moon	22558-02-11 11:45 G	9960241.85	9960241.99	9960242.16	0.0088	0.0071 *
Earth	22559-02-13 19:55 G	9960609.21	9960609.33	9960609.50	0.0088	0.0072
Moon	22559-02-13 20:09 G	9960609.22	9960609.34	9960609.48	0.0088	0.0074 *
Moon	22560-02-16 05:45 G	9960976.58	9960976.74	9960976.92	0.0088	0.0067
Earth	22560-02-16 06:14 G	9960976.63	9960976.76	9960976.94	0.0088	0.0070 *
Earth	22561-02-17 16:19 G	9961344.04	9961344.18	9961344.37	0.0088	0.0068
Moon	22561-02-17 18:28 G	9961344.14	9961344.27	9961344.44	0.0088	0.0070 *
Moon	22562-02-20 00:00 G	9961711.32	9961711.50	9961711.69	0.0088	0.0062
Earth	22562-02-20 03:21 G	9961711.47	9961711.64	9961711.81	0.0088	0.0065 *
Earth	22563-02-22 13:12 G	9962078.89	9962079.05	9962079.25	0.0088	0.0063
Moon	22563-02-22 16:33 G	9962079.04	9962079.19	9962079.38	0.0088	0.0065 *
Moon	22564-02-24 19:55 G	9962446.16	9962446.33	9962446.54	0.0088	0.0059
Earth	22564-02-24 23:31 G	9962446.32	9962446.48	9962446.69	0.0088	0.0061 *
Earth	22565-02-26 10:19 G	9962813.75	9962813.93	9962814.13	0.0088	0.0058
Moon	22565-02-26 12:57 G	9962813.88	9962814.04	9962814.25	0.0088	0.0061 *
Moon	22566-02-28 18:28 G	9963181.07	9963181.27	9963181.47	0.0088	0.0054
Earth	22566-02-28 20:24 G	9963181.17	9963181.35	9963181.57	0.0088	0.0056 *
Earth	22567-03-03 06:57 G	9963548.60	9963548.79	9963549.00	0.0088	0.0053
Moon	22567-03-03 08:09 G	9963548.65	9963548.84	9963549.07	0.0088	0.0055 *
Earth	22568-03-04 17:02 G	9963916.02	9963916.21	9963916.44	0.0088	0.0051
Moon	22568-03-04 17:31 G	9963916.04	9963916.23	9963916.46	0.0088	0.0049 *
Moon	22569-03-07 02:24 G	9964283.39	9964283.60	9964283.83	0.0088	0.0049
Earth	22569-03-07 03:21 G	9964283.45	9964283.64	9964283.88	0.0088	0.0048 *

Earth	22570-03-09 13:55 G	9964650.87	9964651.08	9964651.31	0.0088	0.0045
Moon	22570-03-09 16:33 G	9964650.97	9964651.19	9964651.41	0.0088	0.0043 *
Moon	22571-03-11 21:07 G	9965018.16	9965018.38	9965018.61	0.0088	0.0044
Earth	22571-03-12 00:14 G	9965018.30	9965018.51	9965018.75	0.0088	0.0042 *
Earth	22572-03-13 10:48 G	9965385.73	9965385.95	9965386.19	0.0088	0.0039
Moon	22572-03-13 14:09 G	9965385.87	9965386.09	9965386.33	0.0088	0.0038 *
Moon	22573-03-15 18:00 G	9965753.02	9965753.25	9965753.48	0.0088	0.0037
Earth	22573-03-15 21:21 G	9965753.17	9965753.39	9965753.64	0.0088	0.0036 *
Earth	22574-03-18 07:40 G	9966120.59	9966120.82	9966121.07	0.0088	0.0033
Moon	22574-03-18 10:33 G	9966120.70	9966120.94	9966121.19	0.0088	0.0031 *
Moon	22575-03-20 16:19 G	9966487.96	9966488.18	9966488.43	0.0088	0.0031
Earth	22575-03-20 18:28 G	9966488.04	9966488.27	9966488.52	0.0088	0.0030 *
Earth	22576-03-22 05:02 G	9966855.48	9966855.71	9966855.97	0.0088	0.0027
Moon	22576-03-22 06:28 G	9966855.51	9966855.77	9966856.02	0.0088	0.0025 *
Earth	22577-03-24 16:04 G	9967222.92	9967223.17	9967223.42	0.0088	0.0023
Moon	22577-03-24 16:33 G	9967222.96	9967223.19	9967223.44	0.0088	0.0025 *
Moon	22578-03-27 01:12 G	9967590.30	9967590.55	9967590.82	0.0088	0.0019
Earth	22578-03-27 02:38 G	9967590.37	9967590.61	9967590.87	0.0088	0.0020 *
Earth	22579-03-29 13:26 G	9967957.81	9967958.06	9967958.32	0.0088	0.0017
Moon	22579-03-29 16:04 G	9967957.93	9967958.17	9967958.42	0.0088	0.0018 *
Moon	22580-03-30 20:38 G	9968325.11	9968325.36	9968325.63	0.0088	0.0012
Earth	22580-03-31 00:14 G	9968325.26	9968325.51	9968325.77	0.0088	0.0014 *
Earth	22581-04-02 11:02 G	9968692.70	9968692.96	9968693.22	0.0088	0.0010
Moon	22581-04-02 14:38 G	9968692.85	9968693.11	9968693.36	0.0088	0.0010 *
Mars	22582-02-22 04:33 G	9969018.66	9969018.69	9969018.80	0.0088	0.0086
Moon	22582-04-04 18:14 G	9969060.01	9969060.26	9969060.52	0.0088	0.0006
Earth	22582-04-04 21:50 G	9969060.15	9969060.41	9969060.67	0.0088	0.0007 *
Earth	22583-04-07 08:38 G	9969427.60	9969427.86	9969428.12	0.0088	0.0003
Moon	22583-04-07 11:16 G	9969427.70	9969427.97	9969428.23	0.0088	0.0004 *
Mars	22584-01-19 12:00 G	9969714.66	9969715.00	9969715.34	0.0088	0.0002



Moon	22584-04-08 17:45 G	9969794.99	9969795.24	9969795.49	0.0088	0.0001
Earth	22584-04-08 19:40 G	9969795.06	9969795.32	9969795.58	0.0088	0.0001 *
Earth	22585-04-11 06:14 G	9970162.51	9970162.76	9970163.02	0.0088	0.0004
Moon	22585-04-11 06:57 G	9970162.53	9970162.79	9970163.06	0.0088	0.0003 *
Mars	22585-12-15 16:48 G	9970411.10	9970411.20	9970411.36	0.0088	0.0081
Earth	22586-04-13 17:16 G	9970529.96	9970530.22	9970530.48	0.0088	0.0007
Moon	22586-04-13 18:14 G	9970530.02	9970530.26	9970530.51	0.0088	0.0008 *
Moon	22587-04-16 02:38 G	9970897.35	9970897.61	9970897.88	0.0088	0.0010
Earth	22587-04-16 04:33 G	9970897.43	9970897.69	9970897.94	0.0088	0.0010 *
Earth	22588-04-17 15:21 G	9971264.89	9971265.14	9971265.40	0.0088	0.0014
Moon	22588-04-17 18:14 G	9971265.02	9971265.26	9971265.52	0.0088	0.0014 *
Moon	22589-04-19 23:02 G	9971632.21	9971632.46	9971632.73	0.0088	0.0017
Earth	22589-04-20 02:38 G	9971632.36	9971632.61	9971632.87	0.0088	0.0017 *
Earth	22590-04-22 13:55 G	9971999.83	9972000.08	9972000.33	0.0088	0.0021
Moon	22590-04-22 17:16 G	9971999.98	9972000.22	9972000.48	0.0088	0.0020 *
Moon	22591-04-24 21:36 G	9972367.17	9972367.40	9972367.66	0.0088	0.0025
Earth	22591-04-25 01:12 G	9972367.31	9972367.55	9972367.81	0.0088	0.0024 *
Earth	22592-04-26 12:28 G	9972734.78	9972735.02	9972735.27	0.0088	0.0027
Moon	22592-04-26 14:52 G	9972734.88	9972735.12	9972735.38	0.0088	0.0027 *
Moon	22593-04-28 21:50 G	9973102.19	9973102.41	9973102.66	0.0088	0.0032
Earth	22593-04-28 23:45 G	9973102.25	9973102.49	9973102.74	0.0088	0.0031 *
Earth	22594-05-01 10:48 G	9973469.73	9973469.95	9973470.21	0.0088	0.0034
Moon	22594-05-01 11:16 G	9973469.74	9973469.97	9973470.24	0.0088	0.0034 *
Earth	22595-05-03 22:19 G	9973837.21	9973837.43	9973837.68	0.0088	0.0037
Moon	22595-05-03 23:31 G	9973837.27	9973837.48	9973837.72	0.0088	0.0037 *
Moon	22596-05-05 07:55 G	9974204.60	9974204.83	9974205.08	0.0088	0.0040
Earth	22596-05-05 09:36 G	9974204.69	9974204.90	9974205.15	0.0088	0.0041 *
Earth	22597-05-07 21:07 G	9974572.17	9974572.38	9974572.62	0.0088	0.0043
Moon	22597-05-08 00:00 G	9974572.30	9974572.50	9974572.74	0.0088	0.0045 *
Moon	22598-05-10 05:02 G	9974939.51	9974939.71	9974939.95	0.0088	0.0047

Earth	22598-05-10 08:38 G	9974939.66	9974939.86	9974940.10	0.0088	0.0047 *
Earth	22599-05-12 20:09 G	9975307.14	9975307.34	9975307.57	0.0088	0.0050
Moon	22599-05-12 23:31 G	9975307.30	9975307.48	9975307.72	0.0088	0.0052 *
Moon	22600-05-15 04:33 G	9975674.50	9975674.69	9975674.92	0.0088	0.0051
Earth	22600-05-15 07:55 G	9975674.64	9975674.83	9975675.06	0.0088	0.0053 *
Earth	22601-05-17 19:26 G	9976042.13	9976042.31	9976042.54	0.0088	0.0056
Moon	22601-05-17 21:50 G	9976042.23	9976042.41	9976042.64	0.0088	0.0057 *
Moon	22602-05-20 05:45 G	9976409.57	9976409.74	9976409.96	0.0089	0.0057
Earth	22602-05-20 07:55 G	9976409.64	9976409.83	9976410.03	0.0089	0.0058 *
Earth	22603-05-22 19:26 G	9976777.15	9976777.31	9976777.52	0.0089	0.0061
Moon	22603-05-22 20:09 G	9976777.16	9976777.34	9976777.54	0.0089	0.0062 *
Earth	22604-05-24 07:12 G	9977144.65	9977144.80	9977145.01	0.0089	0.0064
Moon	22604-05-24 08:24 G	9977144.70	9977144.85	9977145.06	0.0089	0.0063 *
Moon	22605-05-26 17:31 G	9977512.08	9977512.23	9977512.43	0.0089	0.0068
Earth	22605-05-26 19:26 G	9977512.16	9977512.31	9977512.50	0.0089	0.0066 *
Earth	22606-05-29 07:55 G	9977879.67	9977879.83	9977880.00	0.0089	0.0068
Moon	22606-05-29 10:19 G	9977879.79	9977879.93	9977880.13	0.0089	0.0067 *
Moon	22607-05-31 16:04 G	9978247.04	9978247.17	9978247.34	0.0089	0.0072
Earth	22607-05-31 19:26 G	9978247.18	9978247.31	9978247.49	0.0089	0.0071 *
Earth	22608-06-02 07:40 G	9978614.69	9978614.82	9978614.98	0.0089	0.0073
Moon	22608-06-02 11:16 G	9978614.83	9978614.97	9978615.14	0.0089	0.0070 *
Moon	22609-06-04 16:48 G	9978982.08	9978982.20	9978982.33	0.0089	0.0077
Earth	22609-06-04 19:40 G	9978982.21	9978982.32	9978982.48	0.0089	0.0075 *
Earth	22610-06-07 07:55 G	9979349.72	9979349.83	9979349.98	0.0089	0.0077
Moon	22610-06-07 10:04 G	9979349.81	9979349.92	9979350.10	0.0089	0.0075 *
Moon	22611-06-09 18:28 G	9979717.19	9979717.27	9979717.38	0.0089	0.0082
Earth	22611-06-09 20:09 G	9979717.25	9979717.34	9979717.48	0.0089	0.0079 *
Venus	22611-08-23 22:04 G	9979792.33	9979792.42	9979792.57	0.0089	0.0075
Venus	22612-04-05 11:45 G	9980017.83	9980017.99	9980018.18	0.0089	0.0055
Moon	22612-06-11 08:38 G	9980084.76	9980084.86	9980085.02	0.0089	0.0078

Earth	22612-06-11 08:24 G	9980084.77	9980084.85	9980084.98	0.0089	0.0081	*
Venus	22612-11-17 00:57 G	9980243.35	9980243.54	9980243.75	0.0089	0.0035	
Earth	22613-06-13 21:07 G	9980452.30	9980452.38	9980452.49	0.0089	0.0082	
Moon	22613-06-13 21:50 G	9980452.36	9980452.41	9980452.51	0.0089	0.0085	*
Venus	22613-06-30 14:09 G	9980468.88	9980469.09	9980469.31	0.0089	0.0015	
Venus	22614-02-11 03:21 G	9980694.42	9980694.64	9980694.86	0.0089	0.0005	
Moon	22614-06-16 07:40 G	9980819.74	9980819.82	9980819.96	0.0089	0.0081	
Earth	22614-06-16 09:36 G	9980819.84	9980819.90	9980820.00	0.0089	0.0084	*
Venus	22614-09-24 16:19 G	9980919.98	9980920.18	9980920.40	0.0089	0.0025	
Venus	22615-05-08 05:31 G	9981145.56	9981145.73	9981145.94	0.0089	0.0045	
Earth	22615-06-18 22:19 G	9981187.37	9981187.43	9981187.51	0.0089	0.0085	
Moon	22615-06-19 01:12 G	9981187.55	9981187.55	9981187.58	0.0089	0.0089	
Venus	22615-12-19 18:43 G	9981371.15	9981371.28	9981371.44	0.0089	0.0065	
Moon	22616-06-20 07:26 G	9981554.75	9981554.81	9981554.91	0.0089	0.0084	
Earth	22616-06-20 10:33 G	9981554.92	9981554.94	9981555.03	0.0089	0.0087	
Venus	22616-08-01 07:40 G	9981596.78	9981596.82	9981596.91	0.0089	0.0085	
Earth	22617-06-22 23:16 G	9981922.46	9981922.47	9981922.53	0.0089	0.0088	
Moon	22618-06-25 08:24 G	9982289.82	9982289.85	9982289.95	0.0089	0.0086	
Moon	22620-06-29 11:16 G	9983024.94	9983024.97	9983025.04	0.0089	0.0087	
Mercury	22621-10-21 22:04 G	9983504.38	9983504.42	9983504.48	0.0089	0.0084	
Mercury	22622-01-18 00:43 G	9983592.45	9983592.53	9983592.63	0.0089	0.0076	
Mercury	22622-04-16 03:36 G	9983680.54	9983680.65	9983680.76	0.0089	0.0067	
Moon	22622-07-04 15:36 G	9983760.15	9983760.15	9983760.19	0.0089	0.0089	
Mercury	22622-07-13 06:14 G	9983768.63	9983768.76	9983768.89	0.0089	0.0058	
Mercury	22622-10-09 08:24 G	9983856.72	9983856.85	9983857.01	0.0089	0.0049	
Mercury	22623-01-05 11:02 G	9983944.82	9983944.96	9983945.12	0.0089	0.0041	
Mercury	22623-04-03 13:55 G	9984032.92	9984033.08	9984033.24	0.0089	0.0031	
Mercury	22623-06-30 16:33 G	9984121.02	9984121.19	9984121.35	0.0089	0.0022	
Mercury	22623-09-26 18:57 G	9984209.13	9984209.29	9984209.46	0.0089	0.0014	
Mercury	22623-12-23 21:36 G	9984297.23	9984297.40	9984297.57	0.0089	0.0005	

Mercury	22624-03-21 00:00 G	9984385.34	9984385.50	9984385.67	0.0089	0.0005
Mercury	22624-06-17 02:38 G	9984473.44	9984473.61	9984473.78	0.0089	0.0012
Moon	22624-07-08 19:26 G	9984495.29	9984495.31	9984495.34	0.0089	0.0089
Mercury	22624-09-13 05:02 G	9984561.55	9984561.71	9984561.88	0.0089	0.0021
Mercury	22624-12-10 07:40 G	9984649.66	9984649.82	9984649.98	0.0089	0.0030
Mercury	22625-03-08 09:50 G	9984737.77	9984737.91	9984738.07	0.0089	0.0039
Mercury	22625-06-04 12:28 G	9984825.88	9984826.02	9984826.17	0.0089	0.0047
Mercury	22625-08-31 14:52 G	9984914.00	9984914.12	9984914.26	0.0089	0.0055
Mercury	22625-11-27 17:16 G	9985002.12	9985002.22	9985002.34	0.0089	0.0064
Mercury	22626-02-23 19:40 G	9985090.24	9985090.32	9985090.43	0.0089	0.0072
Mercury	22626-05-22 22:04 G	9985178.36	9985178.42	9985178.50	0.0089	0.0081
Moon	22626-07-13 21:36 G	9985230.39	9985230.40	9985230.46	0.0089	0.0088
Mercury	22626-08-19 00:43 G	9985266.52	9985266.53	9985266.55	0.0089	0.0089
Moon	22628-07-17 23:16 G	9985965.43	9985965.47	9985965.53	0.0089	0.0088
Moon	22630-07-22 23:02 G	9986700.42	9986700.46	9986700.55	0.0089	0.0087
Moon	22632-07-26 23:02 G	9987435.40	9987435.46	9987435.57	0.0089	0.0085
Earth	22632-07-27 00:28 G	9987435.52	9987435.52	9987435.54	0.0089	0.0089 *
Earth	22633-07-29 12:57 G	9987803.03	9987803.04	9987803.11	0.0089	0.0089
Moon	22634-07-31 23:02 G	9988170.39	9988170.46	9988170.58	0.0089	0.0083
Earth	22634-08-01 01:55 G	9988170.56	9988170.58	9988170.67	0.0089	0.0088 *
Earth	22635-08-03 15:07 G	9988538.08	9988538.13	9988538.23	0.0089	0.0086
Moon	22636-08-05 00:43 G	9988905.43	9988905.53	9988905.66	0.0089	0.0080
Earth	22636-08-05 04:04 G	9988905.61	9988905.67	9988905.78	0.0089	0.0085 *
Earth	22637-08-07 17:16 G	9989273.14	9989273.22	9989273.34	0.0089	0.0083
Moon	22637-08-07 20:38 G	9989273.31	9989273.36	9989273.43	0.0089	0.0087 *
Moon	22638-08-10 03:50 G	9989640.56	9989640.66	9989640.82	0.0089	0.0077
Earth	22638-08-10 06:57 G	9989640.69	9989640.79	9989640.90	0.0089	0.0081 *
Earth	22639-08-12 19:55 G	9990008.22	9990008.33	9990008.46	0.0089	0.0079
Moon	22639-08-12 20:24 G	9990008.29	9990008.35	9990008.48	0.0089	0.0084 *
Moon	22640-08-14 08:38 G	9990375.74	9990375.86	9990376.02	0.0089	0.0074

Earth	22640-08-14 08:38 G	9990375.76	9990375.86	9990376.02	0.0089	0.0078	*
Jupiter	22640-08-20 18:00 G	9990381.75	9990382.25	9990382.77	0.0089	0.0016	
Moon	22641-08-16 21:07 G	9990743.29	9990743.38	9990743.53	0.0089	0.0080	
Earth	22641-08-16 22:33 G	9990743.30	9990743.44	9990743.58	0.0089	0.0075	*
Earth	22642-08-19 11:31 G	9991110.84	9991110.98	9991111.14	0.0089	0.0073	
Moon	22642-08-19 13:40 G	9991110.93	9991111.07	9991111.25	0.0089	0.0069	*
Moon	22643-08-21 21:36 G	9991478.28	9991478.40	9991478.57	0.0090	0.0075	
Earth	22643-08-22 00:28 G	9991478.38	9991478.52	9991478.70	0.0090	0.0071	*
Earth	22644-08-23 13:12 G	9991845.92	9991846.05	9991846.25	0.0090	0.0069	
Moon	22644-08-23 17:16 G	9991846.05	9991846.22	9991846.41	0.0090	0.0064	*
Moon	22645-08-25 23:02 G	9992213.33	9992213.46	9992213.64	0.0090	0.0071	
Earth	22645-08-26 02:38 G	9992213.46	9992213.61	9992213.81	0.0090	0.0066	*
Earth	22646-08-28 16:04 G	9992580.99	9992581.17	9992581.36	0.0090	0.0063	
Moon	22646-08-28 19:26 G	9992581.12	9992581.31	9992581.51	0.0090	0.0059	*
Moon	22647-08-31 01:40 G	9992948.42	9992948.57	9992948.77	0.0090	0.0065	
Earth	22647-08-31 05:02 G	9992948.52	9992948.71	9992948.91	0.0090	0.0060	*
Earth	22648-09-01 17:31 G	9993316.06	9993316.23	9993316.45	0.0090	0.0058	
Moon	22648-09-01 19:26 G	9993316.10	9993316.31	9993316.53	0.0090	0.0053	*
Moon	22649-09-04 06:28 G	9993683.59	9993683.77	9993683.96	0.0090	0.0058	
Earth	22649-09-04 06:43 G	9993683.60	9993683.78	9993684.01	0.0090	0.0055	*
Moon	22650-09-06 19:12 G	9994051.09	9994051.30	9994051.54	0.0090	0.0048	
Earth	22650-09-06 19:40 G	9994051.13	9994051.32	9994051.55	0.0090	0.0052	*
Earth	22651-09-09 08:38 G	9994418.67	9994418.86	9994419.10	0.0089	0.0049	
Moon	22651-09-09 10:48 G	9994418.77	9994418.95	9994419.17	0.0089	0.0053	*
Moon	22652-09-10 19:26 G	9994786.09	9994786.31	9994786.56	0.0089	0.0042	
Earth	22652-09-10 21:50 G	9994786.21	9994786.41	9994786.65	0.0089	0.0046	*
Earth	22653-09-13 11:16 G	9995153.75	9995153.97	9995154.20	0.0089	0.0042	
Moon	22653-09-13 14:24 G	9995153.90	9995154.10	9995154.34	0.0089	0.0046	*
Moon	22654-09-15 20:38 G	9995521.14	9995521.36	9995521.61	0.0089	0.0035	
Earth	22654-09-16 00:14 G	9995521.29	9995521.51	9995521.76	0.0089	0.0039	*

Earth	22655-09-18 12:57 G	9995888.82	9995889.04	9995889.29	0.0089	0.0035
Moon	22655-09-18 16:33 G	9995888.96	9995889.19	9995889.44	0.0089	0.0038 *
Moon	22656-09-19 23:02 G	9996256.23	9996256.46	9996256.71	0.0089	0.0029
Earth	22656-09-20 02:09 G	9996256.36	9996256.59	9996256.84	0.0089	0.0032 *
Earth	22657-09-22 14:52 G	9996623.89	9996624.12	9996624.38	0.0089	0.0028
Moon	22657-09-22 16:33 G	9996623.96	9996624.19	9996624.45	0.0089	0.0032 *
Moon	22658-09-25 02:38 G	9996991.38	9996991.61	9996991.86	0.0089	0.0022
Earth	22658-09-25 03:36 G	9996991.41	9996991.65	9996991.91	0.0089	0.0025 *
Moon	22659-09-27 16:04 G	9997358.92	9997359.17	9997359.43	0.0089	0.0024
Earth	22659-09-27 16:04 G	9997358.94	9997359.17	9997359.44	0.0089	0.0022 *
Earth	22660-09-29 05:02 G	9997726.46	9997726.71	9997726.97	0.0089	0.0018
Moon	22660-09-29 06:57 G	9997726.54	9997726.79	9997727.04	0.0089	0.0015 *
Moon	22661-10-01 15:07 G	9998093.88	9998094.13	9998094.41	0.0089	0.0017
Earth	22661-10-01 17:45 G	9998093.99	9998094.24	9998094.50	0.0089	0.0014 *
Earth	22662-10-04 06:14 G	9998461.51	9998461.76	9998462.02	0.0089	0.0011
Moon	22662-10-04 09:36 G	9998461.65	9998461.90	9998462.16	0.0089	0.0008 *
Moon	22663-10-06 15:21 G	9998828.89	9998829.14	9998829.40	0.0089	0.0009
Earth	22663-10-06 18:57 G	9998829.03	9998829.29	9998829.55	0.0089	0.0007 *
Mars	22663-11-26 09:21 G	9998879.70	9998879.89	9998880.09	0.0089	0.0065
Earth	22664-10-08 07:26 G	9999196.56	9999196.81	9999197.07	0.0089	0.0003
Moon	22664-10-08 11:02 G	9999196.70	9999196.96	9999197.22	0.0089	0.0002 *
Moon	22665-10-10 17:02 G	9999563.96	9999564.21	9999564.47	0.0089	0.0002
Earth	22665-10-10 20:09 G	9999564.09	9999564.34	9999564.60	0.0089	0.0002 *
Mars	22665-10-20 01:12 G	9999573.27	9999573.55	9999573.85	0.0089	0.0008
Earth	22666-10-13 08:38 G	9999931.60	9999931.86	9999932.12	0.0089	0.0004
Moon	22666-10-13 10:33 G	9999931.68	9999931.94	9999932.21	0.0089	0.0006 *
Mars	22667-09-13 17:31 G	10000267.12	10000267.23	10000267.38	0.0089	0.0080
Moon	22667-10-15 19:40 G	10000299.08	10000299.32	10000299.58	0.0089	0.0008
Earth	22667-10-15 21:07 G	10000299.13	10000299.38	10000299.64	0.0089	0.0008 *
Moon	22668-10-17 09:07 G	10000666.63	10000666.88	10000667.16	0.0089	0.0014

Earth	22668-10-17 09:36 G	10000666.64	10000666.90	10000667.16	0.0089	0.0012	*
Earth	22669-10-19 21:36 G	10001034.16	10001034.40	10001034.66	0.0089	0.0016	
Moon	22669-10-19 23:16 G	10001034.23	10001034.47	10001034.72	0.0089	0.0014	*
Moon	22670-10-22 07:26 G	10001401.57	10001401.81	10001402.09	0.0089	0.0021	
Earth	22670-10-22 09:50 G	10001401.67	10001401.91	10001402.17	0.0089	0.0019	*
Earth	22671-10-24 22:04 G	10001769.17	10001769.42	10001769.67	0.0089	0.0022	
Moon	22671-10-25 01:12 G	10001769.31	10001769.55	10001769.80	0.0089	0.0022	*
Moon	22672-10-26 06:43 G	10002136.54	10002136.78	10002137.03	0.0089	0.0027	
Earth	22672-10-26 10:04 G	10002136.68	10002136.92	10002137.18	0.0089	0.0026	*
Earth	22673-10-28 22:04 G	10002504.19	10002504.42	10002504.67	0.0089	0.0030	
Moon	22673-10-29 01:40 G	10002504.33	10002504.57	10002504.82	0.0089	0.0030	*
Moon	22674-10-31 07:12 G	10002871.56	10002871.80	10002872.03	0.0089	0.0033	
Earth	22674-10-31 09:50 G	10002871.69	10002871.91	10002872.17	0.0089	0.0033	*
Earth	22675-11-02 21:50 G	10003239.19	10003239.41	10003239.66	0.0089	0.0036	
Moon	22675-11-02 23:45 G	10003239.27	10003239.49	10003239.75	0.0089	0.0036	*
Moon	22676-11-04 08:38 G	10003606.65	10003606.86	10003607.10	0.0089	0.0039	
Earth	22676-11-04 10:04 G	10003606.70	10003606.92	10003607.16	0.0089	0.0039	*
Moon	22677-11-06 21:50 G	10003974.18	10003974.41	10003974.65	0.0089	0.0042	
Earth	22677-11-06 21:50 G	10003974.20	10003974.41	10003974.65	0.0089	0.0043	*
Earth	22678-11-09 09:50 G	10004341.70	10004341.91	10004342.15	0.0089	0.0046	
Moon	22678-11-09 11:31 G	10004341.78	10004341.98	10004342.20	0.0089	0.0046	*
Moon	22679-11-11 19:40 G	10004709.11	10004709.32	10004709.55	0.0089	0.0049	
Earth	22679-11-11 21:50 G	10004709.21	10004709.41	10004709.64	0.0089	0.0049	*
Earth	22680-11-13 09:36 G	10005076.70	10005076.90	10005077.12	0.0089	0.0052	
Moon	22680-11-13 12:43 G	10005076.85	10005077.03	10005077.26	0.0089	0.0052	*
Moon	22681-11-15 17:45 G	10005444.06	10005444.24	10005444.46	0.0089	0.0055	
Earth	22681-11-15 21:21 G	10005444.20	10005444.39	10005444.61	0.0089	0.0055	*
Earth	22682-11-18 08:38 G	10005811.69	10005811.86	10005812.07	0.0089	0.0058	
Moon	22682-11-18 12:14 G	10005811.83	10005812.01	10005812.23	0.0089	0.0057	*
Moon	22683-11-20 17:31 G	10006179.06	10006179.23	10006179.42	0.0089	0.0061	

Earth	22683-11-20 20:09 G	10006179.18	10006179.34	10006179.55	0.0089	0.0061	*
Earth	22684-11-22 08:09 G	10006546.66	10006546.84	10006547.02	0.0089	0.0063	
Moon	22684-11-22 09:36 G	10006546.74	10006546.90	10006547.12	0.0089	0.0063	*
Moon	22685-11-24 18:14 G	10006914.10	10006914.26	10006914.42	0.0089	0.0067	
Earth	22685-11-24 19:12 G	10006914.15	10006914.30	10006914.49	0.0089	0.0066	*
Moon	22686-11-27 06:00 G	10007281.61	10007281.75	10007281.95	0.0089	0.0068	
Earth	22686-11-27 06:14 G	10007281.63	10007281.76	10007281.95	0.0089	0.0069	*
Earth	22687-11-29 17:45 G	10007649.11	10007649.24	10007649.42	0.0089	0.0071	
Moon	22687-11-29 19:12 G	10007649.18	10007649.30	10007649.47	0.0089	0.0072	*
Moon	22688-12-01 02:52 G	10008016.49	10008016.62	10008016.80	0.0089	0.0072	
Earth	22688-12-01 05:31 G	10008016.59	10008016.73	10008016.88	0.0089	0.0073	*
Earth	22689-12-03 16:48 G	10008384.07	10008384.20	10008384.34	0.0089	0.0075	
Moon	22689-12-03 19:40 G	10008384.22	10008384.32	10008384.47	0.0089	0.0077	*
Moon	22690-12-06 00:14 G	10008751.41	10008751.51	10008751.66	0.0089	0.0077	
Earth	22690-12-06 03:36 G	10008751.56	10008751.65	10008751.80	0.0089	0.0078	*
Earth	22691-12-08 14:52 G	10009119.04	10009119.12	10009119.26	0.0089	0.0080	
Moon	22691-12-08 18:28 G	10009119.20	10009119.27	10009119.40	0.0089	0.0082	*
Venus	22692-07-15 21:07 G	10009339.35	10009339.38	10009339.46	0.0089	0.0086	
Moon	22692-12-09 23:31 G	10009486.39	10009486.48	10009486.61	0.0089	0.0080	
Earth	22692-12-10 02:38 G	10009486.52	10009486.61	10009486.72	0.0089	0.0081	*
Venus	22693-02-26 10:33 G	10009564.80	10009564.94	10009565.09	0.0089	0.0066	
Venus	22693-10-09 23:16 G	10009790.30	10009790.47	10009790.67	0.0088	0.0047	
Earth	22693-12-12 13:26 G	10009853.99	10009854.06	10009854.17	0.0088	0.0083	
Moon	22693-12-12 15:07 G	10009854.08	10009854.13	10009854.24	0.0088	0.0085	*
Venus	22694-05-23 12:28 G	10010015.81	10010016.02	10010016.23	0.0088	0.0027	
Moon	22694-12-14 23:02 G	10010221.40	10010221.46	10010221.58	0.0088	0.0083	
Earth	22694-12-15 00:14 G	10010221.46	10010221.51	10010221.62	0.0088	0.0085	*
Venus	22695-01-04 01:12 G	10010241.34	10010241.55	10010241.77	0.0088	0.0008	
Venus	22695-08-17 14:09 G	10010466.87	10010467.09	10010467.31	0.0088	0.0012	
Moon	22695-12-17 10:33 G	10010588.93	10010588.94	10010589.02	0.0088	0.0088	



Earth	22695-12-17 11:31 G	10010588.94	10010588.98	10010589.06	0.0088	0.0086	*
Venus	22696-03-30 02:52 G	10010692.42	10010692.62	10010692.83	0.0088	0.0032	
Venus	22696-11-10 15:36 G	10010917.98	10010918.15	10010918.34	0.0088	0.0051	
Earth	22696-12-18 22:04 G	10010956.41	10010956.42	10010956.49	0.0088	0.0088	
Moon	22696-12-19 00:00 G	10010956.46	10010956.50	10010956.57	0.0088	0.0086	*
Venus	22697-06-24 04:19 G	10011143.56	10011143.68	10011143.82	0.0088	0.0071	
Earth	22697-12-21 09:21 G	10011323.89	10011323.89	10011323.91	0.0088	0.0088	
Moon	22698-12-23 23:16 G	10011691.45	10011691.47	10011691.52	0.0088	0.0088	
Moon	22700-12-28 20:52 G	10012426.37	10012426.37	10012426.41	0.0088	0.0088	
Mercury	22702-10-28 13:26 G	10013095.04	10013095.06	10013095.11	0.0088	0.0086	
Mercury	22703-01-24 15:07 G	10013183.08	10013183.13	10013183.21	0.0088	0.0079	
Mercury	22703-04-22 16:48 G	10013271.13	10013271.20	10013271.30	0.0088	0.0071	
Mercury	22703-07-19 18:28 G	10013359.19	10013359.27	10013359.39	0.0088	0.0064	
Mercury	22703-10-15 20:38 G	10013447.25	10013447.36	10013447.47	0.0088	0.0056	
Mercury	22704-01-11 22:19 G	10013535.31	10013535.43	10013535.55	0.0088	0.0049	
Mercury	22704-04-09 00:00 G	10013623.38	10013623.50	10013623.64	0.0088	0.0042	
Mercury	22704-07-06 01:55 G	10013711.44	10013711.58	10013711.71	0.0088	0.0035	
Mercury	22704-10-02 03:36 G	10013799.51	10013799.65	10013799.79	0.0088	0.0027	
Mercury	22704-12-29 05:16 G	10013887.58	10013887.72	10013887.87	0.0088	0.0020	
Mercury	22705-03-27 07:12 G	10013975.65	10013975.80	10013975.95	0.0088	0.0012	
Mercury	22705-06-23 09:07 G	10014063.73	10014063.88	10014064.03	0.0088	0.0005	
Mercury	22705-09-19 10:48 G	10014151.80	10014151.95	10014152.10	0.0088	0.0003	
Mercury	22705-12-16 12:43 G	10014239.88	10014240.03	10014240.18	0.0088	0.0010	
Mercury	22706-03-14 14:24 G	10014327.96	10014328.10	10014328.25	0.0088	0.0018	
Mercury	22706-06-10 16:04 G	10014416.04	10014416.17	10014416.32	0.0088	0.0026	
Mercury	22706-09-06 18:00 G	10014504.12	10014504.25	10014504.39	0.0088	0.0033	
Mercury	22706-12-03 19:55 G	10014592.20	10014592.33	10014592.46	0.0088	0.0040	
Mercury	22707-03-01 21:36 G	10014680.28	10014680.40	10014680.53	0.0088	0.0048	
Mercury	22707-05-28 23:31 G	10014768.37	10014768.48	10014768.60	0.0088	0.0055	
Mercury	22707-08-25 01:12 G	10014856.46	10014856.55	10014856.67	0.0088	0.0063	

Mercury	22707-11-21 03:21 G	10014944.55	10014944.64	10014944.73	0.0088	0.0071
Mercury	22708-02-17 05:02 G	10015032.65	10015032.71	10015032.79	0.0088	0.0078
Mercury	22708-05-15 06:43 G	10015120.77	10015120.78	10015120.83	0.0088	0.0087
Moon	22713-01-23 23:16 G	10016835.46	10016835.47	10016835.51	0.0088	0.0087
Moon	22715-01-28 22:19 G	10017570.41	10017570.43	10017570.51	0.0088	0.0086
Earth	22716-01-31 06:57 G	10017937.77	10017937.79	10017937.84	0.0088	0.0087
Earth	22717-02-01 17:02 G	10018305.19	10018305.21	10018305.29	0.0088	0.0086
Moon	22717-02-01 20:38 G	10018305.31	10018305.36	10018305.48	0.0088	0.0083
Moon	22718-02-04 00:14 G	10018672.51	10018672.51	10018672.55	0.0088	0.0088
Earth	22718-02-04 04:04 G	10018672.60	10018672.67	10018672.74	0.0088	0.0084
Earth	22719-02-06 13:55 G	10019040.02	10019040.08	10019040.19	0.0088	0.0083
Moon	22719-02-06 17:16 G	10019040.13	10019040.22	10019040.36	0.0088	0.0079 *
Moon	22720-02-08 22:19 G	10019407.39	10019407.43	10019407.52	0.0088	0.0085
Earth	22720-02-09 00:43 G	10019407.44	10019407.53	10019407.64	0.0088	0.0081 *
Earth	22721-02-10 10:19 G	10019774.86	10019774.93	10019775.07	0.0088	0.0080
Moon	22721-02-10 12:00 G	10019774.88	10019775.00	10019775.14	0.0088	0.0076 *
Earth	22722-02-12 20:38 G	10020142.27	10020142.36	10020142.51	0.0088	0.0078
Moon	22722-02-12 20:38 G	10020142.30	10020142.36	10020142.48	0.0088	0.0082 *
Moon	22723-02-15 06:00 G	10020509.60	10020509.75	10020509.90	0.0088	0.0072
Earth	22723-02-15 07:12 G	10020509.69	10020509.80	10020509.95	0.0088	0.0076 *
Earth	22724-02-17 17:16 G	10020877.11	10020877.22	10020877.38	0.0088	0.0074
Moon	22724-02-17 19:55 G	10020877.23	10020877.33	10020877.47	0.0088	0.0077 *
Moon	22725-02-19 00:28 G	10021244.38	10021244.52	10021244.71	0.0088	0.0068
Earth	22725-02-19 03:36 G	10021244.53	10021244.65	10021244.83	0.0088	0.0072 *
Earth	22726-02-21 13:55 G	10021611.94	10021612.08	10021612.26	0.0088	0.0069
Moon	22726-02-21 17:31 G	10021612.11	10021612.23	10021612.40	0.0088	0.0073 *
Moon	22727-02-23 21:21 G	10021979.22	10021979.39	10021979.57	0.0088	0.0063
Earth	22727-02-24 00:14 G	10021979.37	10021979.51	10021979.70	0.0088	0.0067 *
Earth	22728-02-26 10:48 G	10022346.79	10022346.95	10022347.14	0.0088	0.0064
Moon	22728-02-26 14:09 G	10022346.93	10022347.09	10022347.26	0.0088	0.0068 *

Moon	22729-02-27 19:40 G	10022714.14	10022714.32	10022714.52	0.0088	0.0058
Earth	22729-02-27 20:52 G	10022714.21	10022714.37	10022714.58	0.0088	0.0062 *
Earth	22730-03-02 07:26 G	10023081.64	10023081.81	10023082.02	0.0088	0.0059
Moon	22730-03-02 08:24 G	10023081.67	10023081.85	10023082.05	0.0088	0.0062 *
Earth	22731-03-04 18:14 G	10023449.07	10023449.26	10023449.47	0.0088	0.0056
Moon	22731-03-04 18:14 G	10023449.08	10023449.26	10023449.48	0.0088	0.0053 *
Moon	22732-03-06 02:09 G	10023816.41	10023816.59	10023816.81	0.0088	0.0057
Earth	22732-03-06 04:48 G	10023816.50	10023816.70	10023816.91	0.0088	0.0053 *
Earth	22733-03-08 14:38 G	10024183.92	10024184.11	10024184.34	0.0088	0.0051
Moon	22733-03-08 17:31 G	10024184.03	10024184.23	10024184.46	0.0088	0.0047 *
Moon	22734-03-10 21:36 G	10024551.21	10024551.40	10024551.63	0.0088	0.0052
Earth	22734-03-11 01:40 G	10024551.35	10024551.57	10024551.78	0.0088	0.0047 *
Earth	22735-03-13 11:45 G	10024918.77	10024918.99	10024919.22	0.0088	0.0044
Moon	22735-03-13 15:36 G	10024918.92	10024919.15	10024919.38	0.0088	0.0040 *
Moon	22736-03-14 18:57 G	10025286.09	10025286.29	10025286.52	0.0088	0.0045
Earth	22736-03-14 22:04 G	10025286.21	10025286.42	10025286.66	0.0088	0.0041 *
Earth	22737-03-17 08:24 G	10025653.63	10025653.85	10025654.09	0.0088	0.0038
Moon	22737-03-17 11:02 G	10025653.74	10025653.96	10025654.22	0.0088	0.0034 *
Moon	22738-03-19 17:31 G	10026021.02	10026021.23	10026021.47	0.0088	0.0039
Earth	22738-03-19 18:43 G	10026021.06	10026021.28	10026021.53	0.0088	0.0035 *
Earth	22739-03-22 05:16 G	10026388.49	10026388.72	10026388.97	0.0088	0.0032
Moon	22739-03-22 05:31 G	10026388.49	10026388.73	10026389.00	0.0088	0.0028 *
Earth	22740-03-23 15:50 G	10026755.93	10026756.16	10026756.41	0.0088	0.0028
Moon	22740-03-23 16:48 G	10026755.97	10026756.20	10026756.43	0.0088	0.0032 *
Moon	22741-03-26 00:00 G	10027123.25	10027123.50	10027123.77	0.0088	0.0021
Earth	22741-03-26 02:24 G	10027123.37	10027123.60	10027123.86	0.0088	0.0025 *
Earth	22742-03-28 13:12 G	10027490.81	10027491.05	10027491.31	0.0088	0.0021
Moon	22742-03-28 16:04 G	10027490.93	10027491.17	10027491.42	0.0088	0.0025 *
Moon	22743-03-30 20:38 G	10027858.10	10027858.36	10027858.62	0.0088	0.0013
Earth	22743-03-31 00:00 G	10027858.26	10027858.50	10027858.76	0.0088	0.0018 *

Earth	22744-04-01 10:48 G	10028225.70	10028225.95	10028226.21	0.0088	0.0014
Moon	22744-04-01 14:09 G	10028225.85	10028226.09	10028226.36	0.0088	0.0019 *
Moon	22745-04-03 18:28 G	10028593.02	10028593.27	10028593.53	0.0088	0.0007
Earth	22745-04-03 21:21 G	10028593.15	10028593.39	10028593.66	0.0088	0.0011 *
Earth	22746-04-06 08:24 G	10028960.59	10028960.85	10028961.11	0.0088	0.0007
Moon	22746-04-06 10:48 G	10028960.70	10028960.95	10028961.22	0.0088	0.0012 *
Moon	22747-04-08 18:14 G	10029328.01	10029328.26	10029328.51	0.0088	0.0001
Earth	22747-04-08 19:12 G	10029328.04	10029328.30	10029328.56	0.0088	0.0004 *
Mars	22747-09-04 01:26 G	10029476.24	10029476.56	10029476.88	0.0088	0.0032
Moon	22748-04-10 05:45 G	10029695.48	10029695.74	10029696.01	0.0088	0.0004
Earth	22748-04-10 06:00 G	10029695.49	10029695.75	10029696.01	0.0088	0.0001 *
Earth	22749-04-12 16:48 G	10030062.94	10030063.20	10030063.46	0.0088	0.0004
Moon	22749-04-12 17:45 G	10030063.00	10030063.24	10030063.49	0.0088	0.0008 *
Mars	22749-07-31 06:28 G	10030172.52	10030172.77	10030173.09	0.0088	0.0051
Moon	22750-04-15 00:57 G	10030430.28	10030430.54	10030430.81	0.0088	0.0003
Earth	22750-04-15 03:50 G	10030430.40	10030430.66	10030430.91	0.0088	0.0007 *
Earth	22751-04-17 14:24 G	10030797.85	10030798.10	10030798.37	0.0088	0.0011
Moon	22751-04-17 17:31 G	10030797.98	10030798.23	10030798.48	0.0088	0.0015 *
Moon	22752-04-18 21:50 G	10031165.16	10031165.41	10031165.68	0.0088	0.0010
Earth	22752-04-19 01:40 G	10031165.32	10031165.57	10031165.83	0.0088	0.0014 *
Earth	22753-04-21 12:28 G	10031532.77	10031533.02	10031533.28	0.0088	0.0018
Moon	22753-04-21 16:04 G	10031532.92	10031533.17	10031533.43	0.0088	0.0022 *
Moon	22754-04-23 20:52 G	10031900.13	10031900.37	10031900.63	0.0088	0.0018
Earth	22754-04-24 00:00 G	10031900.25	10031900.50	10031900.75	0.0088	0.0021 *
Earth	22755-04-26 11:02 G	10032267.72	10032267.96	10032268.22	0.0088	0.0025
Moon	22755-04-26 13:40 G	10032267.82	10032268.07	10032268.32	0.0088	0.0029 *
Moon	22756-04-27 21:36 G	10032635.17	10032635.40	10032635.65	0.0088	0.0024
Earth	22756-04-27 22:19 G	10032635.19	10032635.43	10032635.68	0.0088	0.0029 *
Moon	22757-04-30 09:21 G	10033002.66	10033002.89	10033003.15	0.0088	0.0036
Earth	22757-04-30 09:36 G	10033002.67	10033002.90	10033003.16	0.0088	0.0032 *

Earth	22758-05-02 21:07 G	10033370.15	10033370.38	10033370.63	0.0088	0.0036
Moon	22758-05-02 22:19 G	10033370.21	10033370.43	10033370.68	0.0088	0.0031 *
Moon	22759-05-05 05:31 G	10033737.52	10033737.73	10033737.98	0.0088	0.0043
Earth	22759-05-05 08:38 G	10033737.63	10033737.86	10033738.10	0.0088	0.0039 *
Earth	22760-05-06 19:40 G	10034105.11	10034105.32	10034105.57	0.0088	0.0043
Moon	22760-05-06 22:48 G	10034105.24	10034105.45	10034105.70	0.0088	0.0038 *
Moon	22761-05-09 03:21 G	10034472.45	10034472.64	10034472.88	0.0088	0.0051
Earth	22761-05-09 07:12 G	10034472.60	10034472.80	10034473.04	0.0088	0.0046 *
Earth	22762-05-11 18:57 G	10034840.08	10034840.29	10034840.51	0.0088	0.0049
Moon	22762-05-11 22:04 G	10034840.22	10034840.42	10034840.67	0.0088	0.0045 *
Moon	22763-05-14 03:21 G	10035207.47	10035207.64	10035207.86	0.0088	0.0057
Earth	22763-05-14 06:43 G	10035207.57	10035207.78	10035207.99	0.0088	0.0052 *
Earth	22764-05-15 17:31 G	10035575.06	10035575.23	10035575.46	0.0088	0.0056
Moon	22764-05-15 20:09 G	10035575.14	10035575.34	10035575.57	0.0088	0.0051 *
Moon	22765-05-18 05:02 G	10035942.55	10035942.71	10035942.90	0.0088	0.0063
Earth	22765-05-18 05:45 G	10035942.56	10035942.74	10035942.95	0.0088	0.0058 *
Moon	22766-05-20 17:16 G	10036310.03	10036310.22	10036310.44	0.0088	0.0057
Earth	22766-05-20 17:45 G	10036310.06	10036310.24	10036310.43	0.0088	0.0061 *
Earth	22767-05-23 05:16 G	10036677.56	10036677.72	10036677.91	0.0089	0.0064
Moon	22767-05-23 06:28 G	10036677.64	10036677.77	10036677.95	0.0089	0.0069 *
Moon	22768-05-24 14:24 G	10037044.93	10037045.10	10037045.30	0.0089	0.0062
Earth	22768-05-24 17:16 G	10037045.07	10037045.22	10037045.41	0.0089	0.0067 *
Earth	22769-05-27 04:48 G	10037412.57	10037412.70	10037412.89	0.0089	0.0070
Moon	22769-05-27 08:09 G	10037412.72	10037412.84	10037413.00	0.0089	0.0074 *
Moon	22770-05-29 13:26 G	10037779.92	10037780.06	10037780.25	0.0089	0.0068
Earth	22770-05-29 17:31 G	10037780.09	10037780.23	10037780.39	0.0089	0.0072 *
Earth	22771-06-01 05:02 G	10038147.60	10038147.71	10038147.88	0.0089	0.0075
Moon	22771-06-01 08:38 G	10038147.77	10038147.86	10038148.00	0.0089	0.0079 *
Moon	22772-06-02 14:24 G	10038514.98	10038515.10	10038515.26	0.0089	0.0073
Earth	22772-06-02 17:16 G	10038515.11	10038515.22	10038515.37	0.0089	0.0077 *

Earth	22773-06-05 05:31 G	10038882.63	10038882.73	10038882.86	0.0089	0.0079
Moon	22773-06-05 07:55 G	10038882.75	10038882.83	10038882.93	0.0089	0.0083 *
Moon	22774-06-07 17:16 G	10039250.10	10039250.22	10039250.35	0.0089	0.0077
Earth	22774-06-07 17:45 G	10039250.15	10039250.24	10039250.36	0.0089	0.0081 *
Earth	22775-06-10 05:45 G	10039617.67	10039617.74	10039617.84	0.0089	0.0083
Moon	22775-06-10 05:16 G	10039617.69	10039617.72	10039617.81	0.0089	0.0087 *
Venus	22775-11-26 09:36 G	10039786.83	10039786.90	10039787.00	0.0089	0.0082
Earth	22776-06-11 17:45 G	10039985.19	10039985.24	10039985.33	0.0089	0.0085
Moon	22776-06-11 19:12 G	10039985.22	10039985.30	10039985.42	0.0089	0.0081 *
Venus	22776-07-08 23:02 G	10040012.30	10040012.46	10040012.61	0.0089	0.0062
Venus	22777-02-19 11:45 G	10040237.81	10040237.99	10040238.20	0.0089	0.0043
Earth	22777-06-14 06:00 G	10040352.72	10040352.75	10040352.83	0.0089	0.0087
Venus	22777-10-03 00:57 G	10040463.34	10040463.54	10040463.76	0.0089	0.0023
Venus	22778-05-16 14:24 G	10040688.88	10040689.10	10040689.32	0.0089	0.0003
Earth	22778-06-16 18:28 G	10040720.27	10040720.27	10040720.31	0.0089	0.0089
Moon	22778-06-16 21:21 G	10040720.34	10040720.39	10040720.49	0.0089	0.0085
Venus	22778-12-28 03:21 G	10040914.43	10040914.64	10040914.86	0.0089	0.0017
Venus	22779-08-10 16:19 G	10041139.99	10041140.18	10041140.39	0.0089	0.0037
Venus	22780-03-23 05:31 G	10041365.58	10041365.73	10041365.91	0.0089	0.0057
Moon	22780-06-20 23:02 G	10041455.42	10041455.46	10041455.52	0.0089	0.0087
Venus	22780-11-03 18:28 G	10041591.18	10041591.27	10041591.40	0.0089	0.0077
Mercury	22786-04-22 18:43 G	10043587.28	10043587.28	10043587.29	0.0089	0.0089
Mercury	22786-07-19 21:07 G	10043675.32	10043675.38	10043675.47	0.0089	0.0081
Mercury	22786-10-15 23:45 G	10043763.40	10043763.49	10043763.61	0.0089	0.0072
Mercury	22787-01-12 02:38 G	10043851.49	10043851.61	10043851.73	0.0089	0.0062
Mercury	22787-04-10 05:16 G	10043939.59	10043939.72	10043939.86	0.0089	0.0053
Mercury	22787-07-07 07:55 G	10044027.69	10044027.83	10044027.98	0.0089	0.0045
Mercury	22787-10-03 10:19 G	10044115.79	10044115.93	10044116.09	0.0089	0.0036
Mercury	22787-12-30 12:57 G	10044203.89	10044204.04	10044204.21	0.0089	0.0027
Mercury	22788-03-27 15:36 G	10044291.99	10044292.15	10044292.32	0.0089	0.0018

Mercury	22788-06-23 18:14 G	10044380.09	10044380.26	10044380.43	0.0089	0.0010
Mercury	22788-09-19 20:52 G	10044468.20	10044468.37	10044468.54	0.0089	0.0002
Mercury	22788-12-16 23:16 G	10044556.31	10044556.47	10044556.64	0.0089	0.0008
Mercury	22789-03-15 01:55 G	10044644.41	10044644.58	10044644.74	0.0089	0.0017
Mercury	22789-06-11 04:19 G	10044732.52	10044732.68	10044732.84	0.0089	0.0025
Mercury	22789-09-07 06:43 G	10044820.63	10044820.78	10044820.94	0.0089	0.0034
Mercury	22789-12-04 09:07 G	10044908.74	10044908.88	10044909.04	0.0089	0.0043
Mercury	22790-03-02 11:31 G	10044996.86	10044996.98	10044997.13	0.0089	0.0051
Mercury	22790-05-29 14:09 G	10045084.97	10045085.09	10045085.22	0.0089	0.0059
Mercury	22790-08-25 16:48 G	10045173.09	10045173.20	10045173.31	0.0089	0.0068
Mercury	22790-11-21 18:57 G	10045261.22	10045261.29	10045261.39	0.0089	0.0076
Mercury	22791-02-17 21:21 G	10045349.35	10045349.39	10045349.45	0.0089	0.0085
Earth	22800-08-05 12:57 G	10048806.04	10048806.04	10048806.09	0.0089	0.0089
Moon	22800-08-05 15:36 G	10048806.14	10048806.15	10048806.23	0.0089	0.0089
Moon	22801-08-08 00:28 G	10049173.51	10049173.52	10049173.59	0.0089	0.0089
Earth	22801-08-08 02:09 G	10049173.56	10049173.59	10049173.67	0.0089	0.0088 *
Earth	22802-08-10 15:07 G	10049541.08	10049541.13	10049541.23	0.0089	0.0086
Moon	22802-08-10 16:04 G	10049541.12	10049541.17	10049541.27	0.0089	0.0086 *
Earth	22803-08-13 04:19 G	10049908.61	10049908.68	10049908.79	0.0089	0.0084
Moon	22803-08-13 04:48 G	10049908.65	10049908.70	10049908.81	0.0089	0.0085 *
Moon	22804-08-14 15:36 G	10050276.05	10050276.15	10050276.28	0.0089	0.0081
Earth	22804-08-14 17:31 G	10050276.14	10050276.23	10050276.35	0.0089	0.0082 *
Earth	22805-08-17 06:28 G	10050643.68	10050643.77	10050643.91	0.0089	0.0080
Moon	22805-08-17 09:21 G	10050643.78	10050643.89	10050644.01	0.0089	0.0079 *
Moon	22806-08-19 16:19 G	10051011.07	10051011.18	10051011.33	0.0089	0.0077
Earth	22806-08-19 20:24 G	10051011.22	10051011.35	10051011.48	0.0089	0.0077 *
Jupiter	22806-10-21 16:48 G	10051073.92	10051074.20	10051074.55	0.0089	0.0071
Earth	22807-08-22 08:52 G	10051378.75	10051378.87	10051379.03	0.0089	0.0075
Moon	22807-08-22 12:14 G	10051378.90	10051379.01	10051379.18	0.0089	0.0075 *
Moon	22808-08-23 18:28 G	10051746.15	10051746.27	10051746.44	0.0090	0.0074

Earth	22808-08-23 22:33 G	10051746.30	10051746.44	10051746.60	0.0090	0.0072	*
Earth	22809-08-26 11:16 G	10052113.83	10052113.97	10052114.15	0.0090	0.0070	
Moon	22809-08-26 14:09 G	10052113.95	10052114.09	10052114.29	0.0090	0.0069	*
Moon	22810-08-28 22:33 G	10052481.29	10052481.44	10052481.62	0.0090	0.0068	
Earth	22810-08-29 00:14 G	10052481.36	10052481.51	10052481.71	0.0090	0.0067	*
Earth	22811-08-31 13:26 G	10052848.89	10052849.06	10052849.26	0.0090	0.0064	
Moon	22811-08-31 14:38 G	10052848.94	10052849.11	10052849.32	0.0090	0.0062	*
Earth	22812-09-02 02:24 G	10053216.43	10053216.60	10053216.81	0.0090	0.0061	
Moon	22812-09-02 03:07 G	10053216.46	10053216.63	10053216.82	0.0090	0.0062	*
Moon	22813-09-04 13:40 G	10053583.89	10053584.07	10053584.30	0.0090	0.0057	
Earth	22813-09-04 15:21 G	10053583.96	10053584.14	10053584.36	0.0090	0.0058	*
Earth	22814-09-07 04:04 G	10053951.49	10053951.67	10053951.90	0.0090	0.0055	
Moon	22814-09-07 06:28 G	10053951.59	10053951.77	10053951.98	0.0090	0.0057	*
Moon	22815-09-09 13:55 G	10054318.87	10054319.08	10054319.31	0.0090	0.0050	
Earth	22815-09-09 17:02 G	10054319.02	10054319.21	10054319.45	0.0090	0.0052	*
Earth	22816-09-11 06:14 G	10054686.56	10054686.76	10054686.99	0.0090	0.0048	
Moon	22816-09-11 09:50 G	10054686.71	10054686.91	10054687.13	0.0090	0.0050	*
Moon	22817-09-13 15:50 G	10055053.94	10055054.16	10055054.40	0.0089	0.0042	
Earth	22817-09-13 19:12 G	10055054.10	10055054.30	10055054.55	0.0089	0.0045	*
Earth	22818-09-16 08:24 G	10055421.63	10055421.85	10055422.08	0.0089	0.0041	
Moon	22818-09-16 11:02 G	10055421.75	10055421.96	10055422.21	0.0089	0.0044	*
Moon	22819-09-18 19:12 G	10055789.08	10055789.30	10055789.54	0.0089	0.0035	
Earth	22819-09-18 21:21 G	10055789.17	10055789.39	10055789.64	0.0089	0.0038	*
Earth	22820-09-20 10:33 G	10056156.71	10056156.94	10056157.18	0.0089	0.0034	
Moon	22820-09-20 12:14 G	10056156.77	10056157.01	10056157.26	0.0089	0.0037	*
Earth	22821-09-22 23:16 G	10056524.24	10056524.47	10056524.73	0.0089	0.0030	
Moon	22821-09-22 23:31 G	10056524.25	10056524.48	10056524.73	0.0089	0.0028	*
Moon	22822-09-25 11:16 G	10056891.72	10056891.97	10056892.22	0.0089	0.0029	
Earth	22822-09-25 12:00 G	10056891.77	10056892.00	10056892.26	0.0089	0.0027	*
Earth	22823-09-28 00:57 G	10057259.30	10057259.54	10057259.80	0.0089	0.0023	



Moon	22823-09-28 02:52 G	10057259.38	10057259.62	10057259.87	0.0089	0.0019	*
Moon	22824-09-29 10:19 G	10057626.69	10057626.93	10057627.20	0.0089	0.0022	
Earth	22824-09-29 13:55 G	10057626.83	10057627.08	10057627.33	0.0089	0.0019	*
Earth	22825-10-02 02:09 G	10057994.35	10057994.59	10057994.86	0.0089	0.0016	
Moon	22825-10-02 05:45 G	10057994.49	10057994.74	10057994.99	0.0089	0.0012	*
Moon	22826-10-04 11:02 G	10058361.72	10058361.96	10058362.22	0.0089	0.0015	
Earth	22826-10-04 14:52 G	10058361.87	10058362.12	10058362.38	0.0089	0.0011	*
Earth	22827-10-07 03:36 G	10058729.39	10058729.65	10058729.91	0.0089	0.0007	
Moon	22827-10-07 06:43 G	10058729.52	10058729.78	10058730.04	0.0089	0.0004	*
Moon	22828-10-08 13:40 G	10059096.82	10059097.07	10059097.33	0.0089	0.0007	
Earth	22828-10-08 16:19 G	10059096.92	10059097.18	10059097.44	0.0089	0.0003	*
Mars	22829-06-05 14:52 G	10059336.85	10059337.12	10059337.41	0.0089	0.0020	
Earth	22829-10-11 04:48 G	10059464.44	10059464.70	10059464.95	0.0089	0.0001	
Moon	22829-10-11 06:28 G	10059464.51	10059464.77	10059465.04	0.0089	0.0004	*
Earth	22830-10-13 17:16 G	10059831.96	10059832.22	10059832.48	0.0089	0.0004	
Moon	22830-10-13 17:16 G	10059831.97	10059832.22	10059832.47	0.0089	0.0001	*
Mars	22831-04-30 06:14 G	10060030.53	10060030.76	10060031.00	0.0089	0.0053	
Moon	22831-10-16 05:02 G	10060199.45	10060199.71	10060199.98	0.0089	0.0012	
Earth	22831-10-16 05:45 G	10060199.49	10060199.74	10060200.00	0.0089	0.0008	*
Earth	22832-10-17 18:14 G	10060567.01	10060567.26	10060567.53	0.0089	0.0012	
Moon	22832-10-17 20:09 G	10060567.10	10060567.34	10060567.60	0.0089	0.0008	*
Moon	22833-10-20 03:36 G	10060934.40	10060934.65	10060934.92	0.0089	0.0020	
Earth	22833-10-20 06:57 G	10060934.54	10060934.79	10060935.05	0.0089	0.0016	*
Earth	22834-10-22 19:12 G	10061302.05	10061302.30	10061302.55	0.0089	0.0020	
Moon	22834-10-22 22:19 G	10061302.18	10061302.43	10061302.69	0.0089	0.0015	*
Moon	22835-10-25 03:21 G	10061669.42	10061669.64	10061669.90	0.0089	0.0029	
Earth	22835-10-25 07:26 G	10061669.57	10061669.81	10061670.07	0.0089	0.0023	*
Earth	22836-10-26 19:26 G	10062037.08	10062037.31	10062037.57	0.0089	0.0027	
Moon	22836-10-26 22:33 G	10062037.20	10062037.44	10062037.71	0.0089	0.0023	*
Moon	22837-10-29 04:48 G	10062404.48	10062404.70	10062404.95	0.0089	0.0035	

Earth	22837-10-29 07:40 G	10062404.58	10062404.82	10062405.07	0.0089	0.0031	*
Earth	22838-10-31 19:40 G	10062772.09	10062772.32	10062772.56	0.0089	0.0034	
Moon	22838-10-31 21:07 G	10062772.15	10062772.38	10062772.65	0.0089	0.0031	*
Earth	22839-11-03 07:26 G	10063139.59	10063139.81	10063140.06	0.0089	0.0038	
Moon	22839-11-03 07:12 G	10063139.60	10063139.80	10063140.04	0.0089	0.0042	*
Moon	22840-11-04 18:43 G	10063507.05	10063507.28	10063507.54	0.0089	0.0038	
Earth	22840-11-04 19:40 G	10063507.09	10063507.32	10063507.55	0.0089	0.0041	*
Earth	22841-11-07 07:12 G	10063874.59	10063874.80	10063875.04	0.0089	0.0045	
Moon	22841-11-07 09:21 G	10063874.69	10063874.89	10063875.10	0.0089	0.0049	*
Moon	22842-11-09 15:50 G	10064241.95	10064242.16	10064242.41	0.0089	0.0044	
Earth	22842-11-09 19:12 G	10064242.10	10064242.30	10064242.53	0.0089	0.0048	*
Earth	22843-11-12 07:12 G	10064609.60	10064609.80	10064610.01	0.0089	0.0051	
Moon	22843-11-12 10:04 G	10064609.74	10064609.92	10064610.14	0.0089	0.0056	*
Moon	22844-11-13 15:07 G	10064976.94	10064977.13	10064977.36	0.0089	0.0050	
Earth	22844-11-13 18:43 G	10064977.10	10064977.28	10064977.51	0.0089	0.0055	*
Earth	22845-11-16 06:28 G	10065344.60	10065344.77	10065344.98	0.0089	0.0058	
Moon	22845-11-16 09:50 G	10065344.74	10065344.91	10065345.11	0.0089	0.0062	*
Moon	22846-11-18 15:21 G	10065711.98	10065712.14	10065712.36	0.0089	0.0057	
Earth	22846-11-18 18:14 G	10065712.10	10065712.26	10065712.47	0.0089	0.0061	*
Earth	22847-11-21 05:45 G	10066079.59	10066079.74	10066079.95	0.0089	0.0064	
Moon	22847-11-21 07:55 G	10066079.68	10066079.83	10066080.01	0.0089	0.0068	*
Moon	22848-11-22 17:02 G	10066447.06	10066447.21	10066447.42	0.0089	0.0063	
Earth	22848-11-22 17:16 G	10066447.08	10066447.22	10066447.42	0.0089	0.0067	*
Moon	22849-11-25 04:33 G	10066814.55	10066814.69	10066814.85	0.0089	0.0073	
Earth	22849-11-25 05:02 G	10066814.56	10066814.71	10066814.88	0.0089	0.0069	*
Earth	22850-11-27 16:19 G	10067182.05	10067182.18	10067182.34	0.0089	0.0072	
Moon	22850-11-27 18:00 G	10067182.11	10067182.25	10067182.44	0.0089	0.0068	*
Moon	22851-11-30 00:28 G	10067549.42	10067549.52	10067549.66	0.0089	0.0079	
Earth	22851-11-30 03:21 G	10067549.53	10067549.64	10067549.81	0.0089	0.0075	*
Earth	22852-12-01 14:52 G	10067917.01	10067917.12	10067917.26	0.0089	0.0077	

Moon	22852-12-01 18:00 G	10067917.13	10067917.25	10067917.42	0.0089	0.0073	*
Moon	22853-12-03 22:19 G	10068284.37	10068284.43	10068284.53	0.0089	0.0084	
Earth	22853-12-04 02:09 G	10068284.49	10068284.59	10068284.72	0.0089	0.0079	*
Earth	22854-12-06 12:57 G	10068651.97	10068652.04	10068652.17	0.0089	0.0082	
Moon	22854-12-06 16:19 G	10068652.07	10068652.18	10068652.33	0.0089	0.0077	*
Moon	22855-12-08 21:50 G	10069019.40	10069019.41	10069019.47	0.0089	0.0088	
Earth	22855-12-09 00:57 G	10069019.46	10069019.54	10069019.63	0.0089	0.0083	*
Earth	22856-12-10 11:16 G	10069386.94	10069386.97	10069387.07	0.0089	0.0086	
Moon	22856-12-10 13:12 G	10069386.97	10069387.05	10069387.18	0.0089	0.0081	*
Venus	22857-05-31 20:52 G	10069559.26	10069559.37	10069559.50	0.0089	0.0074	
Earth	22857-12-12 23:02 G	10069754.43	10069754.46	10069754.52	0.0088	0.0087	
Venus	22858-01-12 09:36 G	10069784.75	10069784.90	10069785.09	0.0088	0.0055	
Venus	22858-08-25 22:48 G	10070010.26	10070010.45	10070010.66	0.0088	0.0035	
Moon	22858-12-15 09:07 G	10070121.83	10070121.88	10070121.99	0.0088	0.0085	
Venus	22859-04-08 11:45 G	10070235.78	10070235.99	10070236.21	0.0088	0.0015	
Venus	22859-11-20 00:43 G	10070461.32	10070461.53	10070461.75	0.0088	0.0005	
Venus	22860-07-02 13:26 G	10070686.86	10070687.06	10070687.28	0.0088	0.0024	
Moon	22860-12-19 04:33 G	10070856.69	10070856.69	10070856.77	0.0088	0.0088	
Venus	22861-02-13 02:09 G	10070912.41	10070912.59	10070912.79	0.0088	0.0044	
Venus	22861-09-26 15:21 G	10071137.99	10071138.14	10071138.30	0.0088	0.0063	
Venus	22862-05-10 03:50 G	10071363.60	10071363.66	10071363.76	0.0088	0.0083	
Mercury	22867-07-25 12:57 G	10073266.00	10073266.04	10073266.10	0.0088	0.0082	
Mercury	22867-10-21 14:38 G	10073354.05	10073354.11	10073354.20	0.0088	0.0075	
Mercury	22868-01-17 16:19 G	10073442.10	10073442.18	10073442.28	0.0088	0.0068	
Mercury	22868-04-14 18:14 G	10073530.16	10073530.26	10073530.37	0.0088	0.0061	
Mercury	22868-07-11 19:55 G	10073618.22	10073618.33	10073618.45	0.0088	0.0053	
Mercury	22868-10-07 21:36 G	10073706.29	10073706.40	10073706.54	0.0088	0.0046	
Mercury	22869-01-03 23:16 G	10073794.35	10073794.47	10073794.62	0.0088	0.0039	
Mercury	22869-04-02 01:12 G	10073882.42	10073882.55	10073882.69	0.0088	0.0032	
Mercury	22869-06-29 03:07 G	10073970.49	10073970.63	10073970.77	0.0088	0.0024	

Mercury	22869-09-25 04:48 G	10074058.56	10074058.70	10074058.85	0.0088	0.0017
Mercury	22869-12-22 06:43 G	10074146.63	10074146.78	10074146.93	0.0088	0.0009
Mercury	22870-03-20 08:24 G	10074234.71	10074234.85	10074235.00	0.0088	0.0003
Mercury	22870-06-16 10:19 G	10074322.78	10074322.93	10074323.08	0.0088	0.0006
Mercury	22870-09-12 12:00 G	10074410.86	10074411.00	10074411.15	0.0088	0.0014
Mercury	22870-12-09 13:40 G	10074498.93	10074499.07	10074499.22	0.0088	0.0022
Mercury	22871-03-07 15:36 G	10074587.01	10074587.15	10074587.30	0.0088	0.0028
Mercury	22871-06-03 17:16 G	10074675.10	10074675.22	10074675.37	0.0088	0.0036
Mercury	22871-08-30 19:26 G	10074763.18	10074763.31	10074763.44	0.0088	0.0043
Mercury	22871-11-26 21:07 G	10074851.26	10074851.38	10074851.51	0.0088	0.0051
Mercury	22872-02-22 22:48 G	10074939.35	10074939.45	10074939.57	0.0088	0.0059
Mercury	22872-05-21 00:43 G	10075027.44	10075027.53	10075027.64	0.0088	0.0066
Mercury	22872-08-17 02:38 G	10075115.54	10075115.61	10075115.70	0.0088	0.0074
Mercury	22872-11-13 04:19 G	10075203.64	10075203.68	10075203.75	0.0088	0.0082
Moon	22881-02-01 00:00 G	10078205.49	10078205.50	10078205.56	0.0088	0.0087
Moon	22883-02-05 22:19 G	10078940.39	10078940.43	10078940.52	0.0088	0.0085
Earth	22883-02-06 00:28 G	10078940.52	10078940.52	10078940.56	0.0088	0.0088 *
Earth	22884-02-08 10:33 G	10079307.91	10079307.94	10079308.02	0.0088	0.0086
Earth	22885-02-09 21:07 G	10079675.33	10079675.38	10079675.47	0.0088	0.0084
Moon	22885-02-09 21:50 G	10079675.34	10079675.41	10079675.53	0.0088	0.0081 *
Moon	22886-02-12 05:31 G	10080042.69	10080042.73	10080042.82	0.0088	0.0085
Earth	22886-02-12 07:26 G	10080042.74	10080042.81	10080042.92	0.0088	0.0082 *
Earth	22887-02-14 17:31 G	10080410.15	10080410.23	10080410.36	0.0088	0.0080
Moon	22887-02-14 20:24 G	10080410.26	10080410.35	10080410.50	0.0088	0.0077 *
Moon	22888-02-17 00:57 G	10080777.45	10080777.54	10080777.64	0.0088	0.0081
Earth	22888-02-17 03:50 G	10080777.57	10080777.66	10080777.80	0.0088	0.0078 *
Earth	22889-02-18 14:24 G	10081144.97	10081145.10	10081145.23	0.0088	0.0075
Moon	22889-02-18 17:16 G	10081145.11	10081145.22	10081145.40	0.0088	0.0073 *
Moon	22890-02-20 20:52 G	10081512.28	10081512.37	10081512.52	0.0088	0.0077
Earth	22890-02-21 00:14 G	10081512.39	10081512.51	10081512.68	0.0088	0.0073 *

Earth	22891-02-23 10:19 G	10081879.81	10081879.93	10081880.11	0.0088	0.0071
Moon	22891-02-23 13:12 G	10081879.89	10081880.05	10081880.22	0.0088	0.0067 *
Moon	22892-02-25 19:12 G	10082247.17	10082247.30	10082247.47	0.0088	0.0071
Earth	22892-02-25 20:38 G	10082247.22	10082247.36	10082247.55	0.0088	0.0068 *
Moon	22893-02-27 06:57 G	10082614.63	10082614.79	10082615.00	0.0088	0.0062
Earth	22893-02-27 07:12 G	10082614.64	10082614.80	10082614.99	0.0088	0.0065 *
Earth	22894-03-01 17:45 G	10082982.07	10082982.24	10082982.43	0.0088	0.0062
Moon	22894-03-01 18:43 G	10082982.14	10082982.28	10082982.47	0.0088	0.0066 *
Moon	22895-03-04 01:40 G	10083349.39	10083349.57	10083349.79	0.0088	0.0057
Earth	22895-03-04 03:50 G	10083349.49	10083349.66	10083349.87	0.0088	0.0060 *
Earth	22896-03-05 14:09 G	10083716.92	10083717.09	10083717.31	0.0088	0.0057
Moon	22896-03-05 17:31 G	10083717.07	10083717.23	10083717.44	0.0088	0.0060 *
Moon	22897-03-07 21:36 G	10084084.20	10084084.40	10084084.62	0.0088	0.0050
Earth	22897-03-08 00:43 G	10084084.35	10084084.53	10084084.76	0.0088	0.0054 *
Earth	22898-03-10 11:31 G	10084451.78	10084451.98	10084452.20	0.0088	0.0050
Moon	22898-03-10 14:38 G	10084451.93	10084452.11	10084452.34	0.0088	0.0053 *
Moon	22899-03-12 18:57 G	10084819.08	10084819.29	10084819.52	0.0088	0.0044
Earth	22899-03-12 22:04 G	10084819.21	10084819.42	10084819.64	0.0088	0.0047 *
Earth	22900-03-15 08:09 G	10085186.63	10085186.84	10085187.08	0.0088	0.0044
Moon	22900-03-15 10:19 G	10085186.71	10085186.93	10085187.16	0.0088	0.0046 *
Moon	22901-03-17 17:45 G	10085554.02	10085554.24	10085554.46	0.0088	0.0038
Earth	22901-03-17 18:28 G	10085554.06	10085554.27	10085554.52	0.0088	0.0041 *
Moon	22902-03-20 04:33 G	10085921.47	10085921.69	10085921.95	0.0088	0.0040
Earth	22902-03-20 05:16 G	10085921.49	10085921.72	10085921.96	0.0088	0.0037 *
Earth	22903-03-22 15:21 G	10086288.92	10086289.14	10086289.40	0.0088	0.0034
Moon	22903-03-22 17:16 G	10086289.00	10086289.22	10086289.47	0.0088	0.0031 *
Moon	22904-03-23 23:45 G	10086656.26	10086656.49	10086656.75	0.0088	0.0032
Earth	22904-03-24 02:09 G	10086656.36	10086656.59	10086656.84	0.0088	0.0030 *
Earth	22905-03-26 12:28 G	10087023.79	10087024.02	10087024.28	0.0088	0.0027
Moon	22905-03-26 16:04 G	10087023.94	10087024.17	10087024.43	0.0088	0.0024 *

Moon	22906-03-28 19:40 G	10087391.09	10087391.32	10087391.58	0.0088	0.0026
Earth	22906-03-28 23:16 G	10087391.23	10087391.47	10087391.73	0.0088	0.0023 *
Earth	22907-03-31 10:04 G	10087758.67	10087758.92	10087759.18	0.0088	0.0019
Moon	22907-03-31 13:26 G	10087758.82	10087759.06	10087759.33	0.0088	0.0018 *
Moon	22908-04-01 18:00 G	10088126.01	10088126.25	10088126.51	0.0088	0.0018
Earth	22908-04-01 20:52 G	10088126.12	10088126.37	10088126.63	0.0088	0.0015 *
Earth	22909-04-04 07:26 G	10088493.57	10088493.81	10088494.08	0.0088	0.0012
Moon	22909-04-04 09:21 G	10088493.63	10088493.89	10088494.16	0.0088	0.0010 *
Moon	22910-04-06 17:31 G	10088860.99	10088861.23	10088861.49	0.0088	0.0010
Earth	22910-04-06 18:28 G	10088861.02	10088861.27	10088861.53	0.0088	0.0008 *
Moon	22911-04-09 04:33 G	10089228.42	10089228.69	10089228.95	0.0088	0.0002
Earth	22911-04-09 05:16 G	10089228.47	10089228.72	10089228.98	0.0088	0.0004 *
Mars	22911-04-18 12:14 G	10089237.79	10089238.01	10089238.27	0.0088	0.0063
Earth	22912-04-10 16:04 G	10089595.92	10089596.17	10089596.43	0.0088	0.0002
Moon	22912-04-10 18:00 G	10089596.01	10089596.25	10089596.51	0.0088	0.0003 *
Mars	22913-03-14 20:24 G	10089934.02	10089934.35	10089934.69	0.0088	0.0020
Moon	22913-04-13 00:14 G	10089963.25	10089963.51	10089963.78	0.0088	0.0005
Earth	22913-04-13 02:52 G	10089963.37	10089963.62	10089963.89	0.0088	0.0004 *
Earth	22914-04-15 13:55 G	10090330.82	10090331.08	10090331.33	0.0088	0.0007
Moon	22914-04-15 17:31 G	10090330.97	10090331.23	10090331.48	0.0088	0.0005 *
Moon	22915-04-17 21:07 G	10090698.14	10090698.38	10090698.65	0.0088	0.0014
Earth	22915-04-18 00:43 G	10090698.28	10090698.53	10090698.79	0.0088	0.0011 *
Earth	22916-04-19 11:16 G	10091065.73	10091065.97	10091066.24	0.0088	0.0015
Moon	22916-04-19 14:52 G	10091065.87	10091066.12	10091066.39	0.0088	0.0014 *
Moon	22917-04-21 19:55 G	10091433.09	10091433.33	10091433.58	0.0088	0.0021
Earth	22917-04-21 22:33 G	10091433.19	10091433.44	10091433.70	0.0088	0.0019 *
Earth	22918-04-24 09:36 G	10091800.65	10091800.90	10091801.15	0.0088	0.0022
Moon	22918-04-24 10:48 G	10091800.71	10091800.95	10091801.22	0.0088	0.0022 *
Moon	22919-04-26 19:40 G	10092168.10	10092168.32	10092168.57	0.0088	0.0027
Earth	22919-04-26 20:24 G	10092168.12	10092168.35	10092168.61	0.0088	0.0026 *

Moon	22920-04-28 06:28 G	10092535.53	10092535.77	10092536.04	0.0088	0.0028
Earth	22920-04-28 07:55 G	10092535.59	10092535.83	10092536.07	0.0088	0.0030 *
Earth	22921-04-30 18:57 G	10092903.06	10092903.29	10092903.54	0.0088	0.0033
Moon	22921-04-30 21:21 G	10092903.16	10092903.39	10092903.62	0.0088	0.0035 *
Moon	22922-05-03 03:21 G	10093270.42	10093270.64	10093270.90	0.0088	0.0037
Earth	22922-05-03 06:14 G	10093270.54	10093270.76	10093271.01	0.0088	0.0037 *
Earth	22923-05-05 17:45 G	10093638.02	10093638.24	10093638.48	0.0088	0.0041
Moon	22923-05-05 21:36 G	10093638.18	10093638.40	10093638.63	0.0088	0.0042 *
Moon	22924-05-07 01:26 G	10094005.36	10094005.56	10094005.81	0.0088	0.0044
Earth	22924-05-07 05:02 G	10094005.50	10094005.71	10094005.95	0.0088	0.0044 *
Earth	22925-05-09 16:33 G	10094372.99	10094373.19	10094373.42	0.0088	0.0048
Moon	22925-05-09 19:55 G	10094373.13	10094373.33	10094373.57	0.0088	0.0048 *
Moon	22926-05-12 01:26 G	10094740.38	10094740.56	10094740.79	0.0088	0.0051
Earth	22926-05-12 04:19 G	10094740.47	10094740.68	10094740.90	0.0088	0.0051 *
Earth	22927-05-14 15:07 G	10095107.95	10095108.13	10095108.36	0.0088	0.0055
Moon	22927-05-14 16:48 G	10095108.01	10095108.20	10095108.43	0.0088	0.0055 *
Moon	22928-05-16 02:38 G	10095475.43	10095475.61	10095475.81	0.0088	0.0058
Earth	22928-05-16 02:52 G	10095475.45	10095475.62	10095475.84	0.0088	0.0058 *
Moon	22929-05-18 13:40 G	10095842.88	10095843.07	10095843.26	0.0088	0.0061
Earth	22929-05-18 14:38 G	10095842.94	10095843.11	10095843.31	0.0088	0.0061 *
Earth	22930-05-21 02:09 G	10096210.43	10096210.59	10096210.79	0.0088	0.0064
Moon	22930-05-21 04:19 G	10096210.52	10096210.68	10096210.87	0.0088	0.0064 *
Moon	22931-05-23 10:48 G	10096577.81	10096577.95	10096578.15	0.0089	0.0067
Earth	22931-05-23 13:55 G	10096577.93	10096578.08	10096578.27	0.0089	0.0067 *
Earth	22932-05-25 01:40 G	10096945.43	10096945.57	10096945.75	0.0089	0.0070
Moon	22932-05-25 05:16 G	10096945.58	10096945.72	10096945.90	0.0089	0.0070 *
Moon	22933-05-27 10:04 G	10097312.80	10097312.92	10097313.10	0.0089	0.0073
Earth	22933-05-27 13:40 G	10097312.95	10097313.07	10097313.24	0.0089	0.0073 *
Earth	22934-05-30 02:09 G	10097680.46	10097680.59	10097680.73	0.0089	0.0075
Moon	22934-05-30 05:02 G	10097680.61	10097680.71	10097680.87	0.0089	0.0077 *

Moon	22935-06-01 11:31 G	10098047.88	10098047.98	10098048.12	0.0089	0.0078
Earth	22935-06-01 13:55 G	10098047.97	10098048.08	10098048.22	0.0089	0.0078 *
Earth	22936-06-03 01:40 G	10098415.49	10098415.57	10098415.71	0.0089	0.0081
Moon	22936-06-03 03:36 G	10098415.56	10098415.65	10098415.77	0.0089	0.0081 *
Moon	22937-06-05 13:40 G	10098782.99	10098783.07	10098783.19	0.0089	0.0082
Earth	22937-06-05 14:09 G	10098783.02	10098783.09	10098783.20	0.0089	0.0083 *
Moon	22938-06-08 00:43 G	10099150.49	10099150.53	10099150.63	0.0089	0.0086
Earth	22938-06-08 02:24 G	10099150.54	10099150.60	10099150.69	0.0089	0.0085 *
Earth	22939-06-10 14:38 G	10099518.08	10099518.11	10099518.17	0.0089	0.0087
Moon	22939-06-10 16:04 G	10099518.15	10099518.17	10099518.26	0.0089	0.0087 *
Venus	22940-10-11 09:21 G	10100006.77	10100006.89	10100007.04	0.0089	0.0070
Venus	22941-05-24 22:48 G	10100232.27	10100232.45	10100232.63	0.0089	0.0050
Venus	22942-01-05 11:31 G	10100457.79	10100457.98	10100458.20	0.0089	0.0031
Venus	22942-08-19 00:43 G	10100683.32	10100683.53	10100683.76	0.0089	0.0011
Venus	22943-04-01 14:09 G	10100908.87	10100909.09	10100909.31	0.0089	0.0009
Venus	22943-11-13 03:07 G	10101134.43	10101134.63	10101134.85	0.0089	0.0029
Venus	22944-06-25 16:04 G	10101360.00	10101360.17	10101360.37	0.0089	0.0049
Venus	22945-02-06 05:02 G	10101585.59	10101585.71	10101585.87	0.0089	0.0069
Venus	22945-09-19 18:28 G	10101811.26	10101811.27	10101811.30	0.0089	0.0088
Mercury	22951-01-18 17:31 G	10103758.20	10103758.23	10103758.29	0.0089	0.0086
Mercury	22951-04-16 20:24 G	10103846.27	10103846.35	10103846.44	0.0089	0.0076
Mercury	22951-07-13 23:02 G	10103934.36	10103934.46	10103934.58	0.0089	0.0067
Mercury	22951-10-10 01:40 G	10104022.45	10104022.57	10104022.71	0.0089	0.0059
Mercury	22952-01-06 04:19 G	10104110.55	10104110.68	10104110.83	0.0089	0.0050
Mercury	22952-04-03 07:12 G	10104198.65	10104198.80	10104198.95	0.0089	0.0041
Mercury	22952-06-30 09:21 G	10104286.75	10104286.89	10104287.06	0.0089	0.0033
Mercury	22952-09-26 12:14 G	10104374.85	10104375.01	10104375.18	0.0089	0.0023
Mercury	22952-12-23 14:52 G	10104462.95	10104463.12	10104463.29	0.0089	0.0014
Mercury	22953-03-21 17:16 G	10104551.06	10104551.22	10104551.39	0.0089	0.0006
Mercury	22953-06-17 19:55 G	10104639.16	10104639.33	10104639.50	0.0089	0.0003



Mercury	22953-09-13 22:19 G	10104727.27	10104727.43	10104727.60	0.0089	0.0013
Mercury	22953-12-11 00:57 G	10104815.38	10104815.54	10104815.71	0.0089	0.0021
Mercury	22954-03-09 03:21 G	10104903.49	10104903.64	10104903.81	0.0089	0.0029
Mercury	22954-06-05 06:00 G	10104991.60	10104991.75	10104991.90	0.0089	0.0038
Mercury	22954-09-01 08:24 G	10105079.71	10105079.85	10105080.00	0.0089	0.0046
Mercury	22954-11-28 11:02 G	10105167.83	10105167.96	10105168.09	0.0089	0.0055
Mercury	22955-02-24 13:12 G	10105255.95	10105256.05	10105256.18	0.0089	0.0064
Mercury	22955-05-23 15:50 G	10105344.07	10105344.16	10105344.26	0.0089	0.0072
Mercury	22955-08-19 18:00 G	10105432.20	10105432.25	10105432.34	0.0089	0.0081
Mercury	22955-11-15 20:38 G	10105520.35	10105520.36	10105520.39	0.0089	0.0089
Moon	22965-08-08 09:50 G	10109073.87	10109073.91	10109073.96	0.0089	0.0088
Moon	22967-08-13 09:21 G	10109808.82	10109808.89	10109809.01	0.0089	0.0084
Earth	22967-08-13 11:45 G	10109808.98	10109808.99	10109809.06	0.0089	0.0089 *
Earth	22968-08-15 01:26 G	10110176.50	10110176.56	10110176.63	0.0089	0.0086
Moon	22969-08-17 10:33 G	10110543.85	10110543.94	10110544.09	0.0089	0.0080
Earth	22969-08-17 14:24 G	10110544.03	10110544.10	10110544.20	0.0089	0.0084 *
Earth	22970-08-20 03:07 G	10110911.55	10110911.63	10110911.76	0.0089	0.0082
Moon	22970-08-20 06:43 G	10110911.74	10110911.78	10110911.88	0.0089	0.0087 *
Moon	22971-08-22 13:26 G	10111278.95	10111279.06	10111279.23	0.0089	0.0075
Earth	22971-08-22 16:48 G	10111279.09	10111279.20	10111279.33	0.0089	0.0079 *
Earth	22972-08-24 05:31 G	10111646.63	10111646.73	10111646.90	0.0089	0.0077
Moon	22972-08-24 08:24 G	10111646.76	10111646.85	10111646.99	0.0089	0.0081 *
Moon	22973-08-26 17:45 G	10112014.10	10112014.24	10112014.41	0.0089	0.0069
Earth	22973-08-26 18:57 G	10112014.17	10112014.29	10112014.46	0.0089	0.0074 *
Earth	22974-08-29 08:09 G	10112381.70	10112381.84	10112382.02	0.0089	0.0071
Moon	22974-08-29 08:09 G	10112381.71	10112381.84	10112382.01	0.0089	0.0075 *
Earth	22975-08-31 21:21 G	10112749.24	10112749.39	10112749.58	0.0090	0.0068
Moon	22975-08-31 22:04 G	10112749.26	10112749.42	10112749.61	0.0090	0.0064 *
Moon	22976-09-02 08:24 G	10113116.70	10113116.85	10113117.03	0.0090	0.0069
Earth	22976-09-02 10:19 G	10113116.78	10113116.93	10113117.14	0.0090	0.0065 *

Earth	22977-09-04 23:16 G	10113484.31	10113484.47	10113484.69	0.0090	0.0062
Moon	22977-09-05 02:38 G	10113484.43	10113484.61	10113484.82	0.0090	0.0057 *
Moon	22978-09-07 09:36 G	10113851.71	10113851.90	10113852.09	0.0090	0.0062
Earth	22978-09-07 12:28 G	10113851.84	10113852.02	10113852.24	0.0090	0.0058 *
Earth	22979-09-10 01:26 G	10114219.37	10114219.56	10114219.78	0.0090	0.0055
Moon	22979-09-10 05:16 G	10114219.52	10114219.72	10114219.95	0.0090	0.0050 *
Moon	22980-09-11 11:16 G	10114586.79	10114586.97	10114587.19	0.0090	0.0056
Earth	22980-09-11 14:38 G	10114586.91	10114587.11	10114587.34	0.0090	0.0051 *
Earth	22981-09-14 03:07 G	10114954.43	10114954.63	10114954.87	0.0090	0.0048
Moon	22981-09-14 06:14 G	10114954.55	10114954.76	10114955.01	0.0090	0.0043 *
Moon	22982-09-16 14:52 G	10115321.92	10115322.12	10115322.34	0.0089	0.0048
Earth	22982-09-16 16:19 G	10115321.97	10115322.18	10115322.42	0.0089	0.0044 *
Earth	22983-09-19 05:31 G	10115689.50	10115689.73	10115689.97	0.0089	0.0040
Moon	22983-09-19 06:00 G	10115689.51	10115689.75	10115690.00	0.0089	0.0036 *
Earth	22984-09-20 18:28 G	10116057.04	10116057.27	10116057.51	0.0089	0.0036
Moon	22984-09-20 18:43 G	10116057.07	10116057.28	10116057.51	0.0089	0.0040 *
Moon	22985-09-23 05:31 G	10116424.48	10116424.73	10116424.99	0.0089	0.0028
Earth	22985-09-23 07:12 G	10116424.58	10116424.80	10116425.06	0.0089	0.0033 *
Earth	22986-09-25 20:09 G	10116792.11	10116792.34	10116792.60	0.0089	0.0028
Moon	22986-09-25 22:48 G	10116792.23	10116792.45	10116792.70	0.0089	0.0033 *
Moon	22987-09-28 06:00 G	10117159.50	10117159.75	10117160.01	0.0089	0.0021
Earth	22987-09-28 09:07 G	10117159.65	10117159.88	10117160.14	0.0089	0.0025 *
Earth	22988-09-29 21:50 G	10117527.17	10117527.41	10117527.68	0.0089	0.0021
Moon	22988-09-30 01:40 G	10117527.33	10117527.57	10117527.83	0.0089	0.0025 *
Moon	22989-10-02 07:26 G	10117894.57	10117894.81	10117895.07	0.0089	0.0013
Earth	22989-10-02 10:33 G	10117894.70	10117894.94	10117895.21	0.0089	0.0017 *
Earth	22990-10-04 23:16 G	10118262.22	10118262.47	10118262.73	0.0089	0.0012
Moon	22990-10-05 02:24 G	10118262.35	10118262.60	10118262.87	0.0089	0.0015 *
Moon	22991-10-07 10:19 G	10118629.68	10118629.93	10118630.18	0.0089	0.0005
Earth	22991-10-07 12:00 G	10118629.75	10118630.00	10118630.26	0.0089	0.0008 *

Earth	22992-10-09 00:28 G	10118997.27	10118997.52	10118997.78	0.0089	0.0004
Moon	22992-10-09 01:12 G	10118997.29	10118997.55	10118997.82	0.0089	0.0007 *
Mars	22993-01-20 05:02 G	10119100.48	10119100.71	10119100.98	0.0089	0.0046
Earth	22993-10-11 12:57 G	10119364.79	10119365.04	10119365.30	0.0089	0.0002
Moon	22993-10-11 13:12 G	10119364.80	10119365.05	10119365.30	0.0089	0.0003 *
Moon	22994-10-13 23:45 G	10119732.22	10119732.49	10119732.75	0.0089	0.0001
Earth	22994-10-14 01:26 G	10119732.31	10119732.56	10119732.82	0.0089	0.0004 *
Mars	22994-12-14 18:57 G	10119794.02	10119794.29	10119794.58	0.0089	0.0026
Earth	22995-10-16 13:55 G	10120099.82	10120100.08	10120100.34	0.0089	0.0008
Moon	22995-10-16 16:19 G	10120099.94	10120100.18	10120100.44	0.0089	0.0011 *
Moon	22996-10-17 23:16 G	10120467.21	10120467.47	10120467.73	0.0089	0.0009
Earth	22996-10-18 02:24 G	10120467.35	10120467.60	10120467.86	0.0089	0.0012 *
Earth	22997-10-20 14:38 G	10120834.86	10120835.11	10120835.37	0.0089	0.0016
Moon	22997-10-20 18:14 G	10120835.02	10120835.26	10120835.52	0.0089	0.0019 *
Moon	22998-10-23 00:00 G	10121202.25	10121202.50	10121202.75	0.0089	0.0017
Earth	22998-10-23 03:07 G	10121202.39	10121202.63	10121202.89	0.0089	0.0020 *
Earth	22999-10-25 15:21 G	10121569.91	10121570.14	10121570.40	0.0089	0.0024
Moon	22999-10-25 18:57 G	10121570.04	10121570.29	10121570.54	0.0089	0.0026 *
Moon	23000-10-28 01:55 G	10121937.35	10121937.58	10121937.83	0.0089	0.0025
Earth	23000-10-28 03:36 G	10121937.42	10121937.65	10121937.91	0.0089	0.0028 *

# 24TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 24th millennium CE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
--------	-----------------	---	-------	-----	-----	--------	-------	---

## TIME

Earth	23001-10-30 16:04 G	10122304.93	10122305.17	10122305.41	0.0089	0.0032
Moon	23001-10-30 17:02 G	10122304.97	10122305.21	10122305.46	0.0089	0.0033 *
Earth	23002-11-02 04:04 G	10122672.44	10122672.67	10122672.91	0.0089	0.0036
Moon	23002-11-02 03:50 G	10122672.45	10122672.66	10122672.91	0.0089	0.0034 *
Moon	23003-11-04 14:24 G	10123039.87	10123040.10	10123040.34	0.0089	0.0042
Earth	23003-11-04 16:04 G	10123039.95	10123040.17	10123040.41	0.0089	0.0039 *
Earth	23004-11-06 03:50 G	10123407.45	10123407.66	10123407.90	0.0089	0.0043
Moon	23004-11-06 06:28 G	10123407.56	10123407.77	10123408.00	0.0089	0.0041 *
Moon	23005-11-08 12:28 G	10123774.82	10123775.02	10123775.26	0.0089	0.0048
Earth	23005-11-08 16:04 G	10123774.96	10123775.17	10123775.39	0.0089	0.0046 *
Earth	23006-11-11 03:36 G	10124142.46	10124142.65	10124142.88	0.0089	0.0050
Moon	23006-11-11 07:26 G	10124142.61	10124142.81	10124143.04	0.0089	0.0048 *
Moon	23007-11-13 12:14 G	10124509.83	10124510.01	10124510.23	0.0089	0.0055
Earth	23007-11-13 16:04 G	10124509.96	10124510.17	10124510.37	0.0089	0.0053 *
Earth	23008-11-15 03:21 G	10124877.46	10124877.64	10124877.85	0.0089	0.0057
Moon	23008-11-15 06:43 G	10124877.59	10124877.78	10124877.99	0.0089	0.0056 *
Moon	23009-11-17 13:12 G	10125244.90	10125245.05	10125245.25	0.0089	0.0062
Earth	23009-11-17 15:21 G	10125244.96	10125245.14	10125245.34	0.0089	0.0060 *
Earth	23010-11-20 03:21 G	10125612.47	10125612.64	10125612.82	0.0089	0.0063
Moon	23010-11-20 03:50 G	10125612.50	10125612.66	10125612.88	0.0089	0.0063 *
Earth	23011-11-22 14:38 G	10125979.97	10125980.11	10125980.31	0.0089	0.0067
Moon	23011-11-22 15:07 G	10125979.98	10125980.13	10125980.30	0.0089	0.0067 *
Moon	23012-11-24 00:57 G	10126347.38	10126347.54	10126347.72	0.0089	0.0068
Earth	23012-11-24 02:24 G	10126347.47	10126347.60	10126347.78	0.0089	0.0070 *
Earth	23013-11-26 13:40 G	10126714.95	10126715.07	10126715.25	0.0089	0.0073
Moon	23013-11-26 16:33 G	10126715.06	10126715.19	10126715.34	0.0089	0.0073 *
Moon	23014-11-28 22:19 G	10127082.31	10127082.43	10127082.59	0.0089	0.0075
Earth	23014-11-29 01:55 G	10127082.45	10127082.58	10127082.72	0.0089	0.0075 *
Earth	23015-12-01 12:57 G	10127449.94	10127450.04	10127450.18	0.0089	0.0078

Moon	23015-12-01 16:33 G	10127450.10	10127450.19	10127450.33	0.0089	0.0079	*
Moon	23016-12-02 20:38 G	10127817.28	10127817.36	10127817.49	0.0089	0.0081	
Earth	23016-12-03 00:00 G	10127817.42	10127817.50	10127817.64	0.0089	0.0081	*
Earth	23017-12-05 11:31 G	10128184.91	10128184.98	10128185.09	0.0089	0.0083	
Moon	23017-12-05 14:24 G	10128185.04	10128185.10	10128185.23	0.0089	0.0083	*
Moon	23018-12-07 21:07 G	10128552.33	10128552.38	10128552.46	0.0089	0.0085	
Earth	23018-12-07 23:02 G	10128552.40	10128552.46	10128552.54	0.0089	0.0085	*
Earth	23019-12-10 09:36 G	10128919.89	10128919.90	10128919.97	0.0089	0.0088	
Moon	23019-12-10 10:48 G	10128919.92	10128919.95	10128920.03	0.0089	0.0087	*
Venus	23021-09-04 07:26 G	10129553.74	10129553.81	10129553.90	0.0089	0.0082	
Venus	23022-04-17 20:09 G	10129779.20	10129779.34	10129779.51	0.0088	0.0063	
Venus	23022-11-29 09:21 G	10130004.70	10130004.89	10130005.09	0.0088	0.0043	
Venus	23023-07-12 22:04 G	10130230.22	10130230.42	10130230.64	0.0088	0.0023	
Venus	23024-02-23 11:02 G	10130455.74	10130455.96	10130456.18	0.0088	0.0004	
Venus	23024-10-06 00:14 G	10130681.29	10130681.51	10130681.72	0.0088	0.0016	
Venus	23025-05-19 12:43 G	10130906.84	10130907.03	10130907.24	0.0088	0.0036	
Venus	23025-12-31 01:40 G	10131132.40	10131132.57	10131132.75	0.0088	0.0055	
Venus	23026-08-13 14:09 G	10131357.99	10131358.09	10131358.23	0.0088	0.0074	
Mercury	23032-01-25 10:48 G	10133348.93	10133348.95	10133348.98	0.0088	0.0086	
Mercury	23032-04-22 12:14 G	10133436.96	10133437.01	10133437.09	0.0088	0.0080	
Mercury	23032-07-19 13:55 G	10133525.01	10133525.08	10133525.18	0.0088	0.0073	
Mercury	23032-10-15 15:36 G	10133613.07	10133613.15	10133613.26	0.0088	0.0066	
Mercury	23033-01-11 17:45 G	10133701.13	10133701.24	10133701.35	0.0088	0.0058	
Mercury	23033-04-09 19:26 G	10133789.19	10133789.31	10133789.43	0.0088	0.0050	
Mercury	23033-07-06 21:07 G	10133877.25	10133877.38	10133877.51	0.0088	0.0043	
Mercury	23033-10-02 22:48 G	10133965.32	10133965.45	10133965.59	0.0088	0.0036	
Mercury	23033-12-30 00:43 G	10134053.39	10134053.53	10134053.67	0.0088	0.0028	
Mercury	23034-03-28 02:24 G	10134141.46	10134141.60	10134141.74	0.0088	0.0021	
Mercury	23034-06-24 04:04 G	10134229.53	10134229.67	10134229.82	0.0088	0.0014	
Mercury	23034-09-20 06:00 G	10134317.60	10134317.75	10134317.90	0.0088	0.0006	

Mercury	23034-12-17 07:40 G	10134405.67	10134405.82	10134405.97	0.0088	0.0002
Mercury	23035-03-15 09:36 G	10134493.75	10134493.90	10134494.05	0.0088	0.0009
Mercury	23035-06-11 11:16 G	10134581.83	10134581.97	10134582.12	0.0088	0.0016
Mercury	23035-09-07 13:12 G	10134669.90	10134670.05	10134670.19	0.0088	0.0024
Mercury	23035-12-04 14:52 G	10134757.98	10134758.12	10134758.26	0.0088	0.0031
Mercury	23036-03-01 16:33 G	10134846.07	10134846.19	10134846.33	0.0088	0.0039
Mercury	23036-05-28 18:28 G	10134934.15	10134934.27	10134934.40	0.0088	0.0046
Mercury	23036-08-24 20:09 G	10135022.23	10135022.34	10135022.47	0.0088	0.0054
Mercury	23036-11-20 22:19 G	10135110.32	10135110.43	10135110.54	0.0088	0.0061
Mercury	23037-02-17 00:00 G	10135198.42	10135198.50	10135198.60	0.0088	0.0069
Mercury	23037-05-16 01:40 G	10135286.51	10135286.57	10135286.66	0.0088	0.0077
Mercury	23037-08-12 03:50 G	10135374.62	10135374.66	10135374.70	0.0088	0.0084
Earth	23050-02-13 16:48 G	10139943.19	10139943.20	10139943.27	0.0088	0.0087
Moon	23050-02-13 20:09 G	10139943.29	10139943.34	10139943.43	0.0088	0.0084
Moon	23051-02-15 23:45 G	10140310.48	10140310.49	10140310.55	0.0088	0.0087
Earth	23051-02-16 03:50 G	10140310.60	10140310.66	10140310.74	0.0088	0.0084
Earth	23052-02-18 13:55 G	10140678.00	10140678.08	10140678.18	0.0088	0.0082
Moon	23052-02-18 17:02 G	10140678.13	10140678.21	10140678.34	0.0088	0.0080 *
Moon	23053-02-19 20:52 G	10141045.32	10141045.37	10141045.49	0.0088	0.0083
Earth	23053-02-20 00:00 G	10141045.42	10141045.50	10141045.63	0.0088	0.0080 *
Earth	23054-02-22 10:33 G	10141412.83	10141412.94	10141413.07	0.0088	0.0077
Moon	23054-02-22 12:43 G	10141412.90	10141413.03	10141413.18	0.0088	0.0074 *
Moon	23055-02-24 20:09 G	10141780.24	10141780.34	10141780.48	0.0088	0.0077
Earth	23055-02-24 20:24 G	10141780.24	10141780.35	10141780.51	0.0088	0.0075 *
Moon	23056-02-27 06:28 G	10142147.63	10142147.77	10142147.95	0.0088	0.0069
Earth	23056-02-27 06:43 G	10142147.66	10142147.78	10142147.95	0.0088	0.0072 *
Earth	23057-02-28 17:02 G	10142515.07	10142515.21	10142515.39	0.0088	0.0069
Moon	23057-02-28 18:43 G	10142515.16	10142515.28	10142515.44	0.0088	0.0072 *
Moon	23058-03-03 00:14 G	10142882.36	10142882.51	10142882.71	0.0088	0.0064
Earth	23058-03-03 03:21 G	10142882.49	10142882.64	10142882.83	0.0088	0.0066 *

Earth	23059-03-05 13:40 G	10143249.91	10143250.07	10143250.27	0.0088	0.0063
Moon	23059-03-05 16:48 G	10143250.05	10143250.20	10143250.39	0.0088	0.0066 *
Moon	23060-03-06 20:09 G	10143617.17	10143617.34	10143617.56	0.0088	0.0057
Earth	23060-03-07 00:00 G	10143617.33	10143617.50	10143617.70	0.0088	0.0060 *
Earth	23061-03-09 10:04 G	10143984.75	10143984.92	10143985.15	0.0088	0.0057
Moon	23061-03-09 13:40 G	10143984.89	10143985.07	10143985.27	0.0088	0.0059 *
Moon	23062-03-11 18:28 G	10144352.07	10144352.27	10144352.48	0.0088	0.0050
Earth	23062-03-11 21:07 G	10144352.18	10144352.38	10144352.59	0.0088	0.0053 *
Earth	23063-03-14 07:12 G	10144719.61	10144719.80	10144720.03	0.0088	0.0050
Moon	23063-03-14 09:07 G	10144719.68	10144719.88	10144720.10	0.0088	0.0053 *
Earth	23064-03-15 17:31 G	10145087.04	10145087.23	10145087.47	0.0088	0.0047
Moon	23064-03-15 17:45 G	10145087.04	10145087.24	10145087.47	0.0088	0.0044 *
Moon	23065-03-18 03:21 G	10145454.43	10145454.64	10145454.89	0.0088	0.0046
Earth	23065-03-18 04:19 G	10145454.47	10145454.68	10145454.92	0.0088	0.0043 *
Earth	23066-03-20 14:52 G	10145821.89	10145822.12	10145822.35	0.0088	0.0039
Moon	23066-03-20 16:48 G	10145821.98	10145822.20	10145822.44	0.0088	0.0036 *
Moon	23067-03-22 22:04 G	10146189.19	10146189.42	10146189.66	0.0088	0.0038
Earth	23067-03-23 00:57 G	10146189.33	10146189.54	10146189.80	0.0088	0.0036 *
Earth	23068-03-24 11:31 G	10146556.75	10146556.98	10146557.23	0.0088	0.0032
Moon	23068-03-24 15:07 G	10146556.89	10146557.13	10146557.37	0.0088	0.0028 *
Moon	23069-03-26 18:14 G	10146924.04	10146924.26	10146924.52	0.0088	0.0032
Earth	23069-03-26 22:19 G	10146924.19	10146924.43	10146924.68	0.0088	0.0028 *
Earth	23070-03-29 08:24 G	10147291.62	10147291.85	10147292.11	0.0088	0.0025
Moon	23070-03-29 11:45 G	10147291.74	10147291.99	10147292.25	0.0088	0.0021 *
Moon	23071-03-31 16:48 G	10147658.96	10147659.20	10147659.44	0.0088	0.0024
Earth	23071-03-31 18:57 G	10147659.05	10147659.29	10147659.56	0.0088	0.0021 *
Earth	23072-04-02 05:45 G	10148026.49	10148026.74	10148027.00	0.0088	0.0017
Moon	23072-04-02 07:12 G	10148026.54	10148026.80	10148027.07	0.0088	0.0013 *
Earth	23073-04-04 16:33 G	10148393.94	10148394.19	10148394.45	0.0088	0.0013
Moon	23073-04-04 16:48 G	10148393.96	10148394.20	10148394.45	0.0088	0.0016 *

Moon	23074-04-07 02:09 G	10148761.33	10148761.59	10148761.86	0.0088	0.0006
Earth	23074-04-07 03:21 G	10148761.39	10148761.64	10148761.90	0.0088	0.0009 *
Earth	23075-04-09 14:09 G	10149128.83	10149129.09	10149129.35	0.0088	0.0005
Moon	23075-04-09 16:33 G	10149128.94	10149129.19	10149129.44	0.0088	0.0009 *
Moon	23076-04-10 21:50 G	10149496.15	10149496.41	10149496.67	0.0088	0.0002
Earth	23076-04-11 01:12 G	10149496.29	10149496.55	10149496.80	0.0088	0.0001 *
Mars	23076-10-27 05:02 G	10149695.37	10149695.71	10149696.06	0.0088	0.0011
Earth	23077-04-13 12:00 G	10149863.74	10149864.00	10149864.26	0.0088	0.0003
Moon	23077-04-13 15:21 G	10149863.89	10149864.14	10149864.40	0.0088	0.0001 *
Moon	23078-04-15 19:12 G	10150231.05	10150231.30	10150231.56	0.0088	0.0011
Earth	23078-04-15 22:48 G	10150231.20	10150231.45	10150231.72	0.0088	0.0007 *
Mars	23078-09-23 12:14 G	10150391.84	10150392.01	10150392.23	0.0088	0.0072
Earth	23079-04-18 09:36 G	10150598.65	10150598.90	10150599.16	0.0088	0.0011
Moon	23079-04-18 12:28 G	10150598.76	10150599.02	10150599.28	0.0088	0.0007 *
Moon	23080-04-19 18:14 G	10150966.03	10150966.26	10150966.52	0.0088	0.0019
Earth	23080-04-19 20:24 G	10150966.11	10150966.35	10150966.62	0.0088	0.0016 *
Earth	23081-04-22 07:26 G	10151333.57	10151333.81	10151334.07	0.0088	0.0019
Moon	23081-04-22 08:24 G	10151333.60	10151333.85	10151334.13	0.0088	0.0015 *
Earth	23082-04-24 18:14 G	10151701.03	10151701.26	10151701.53	0.0088	0.0023
Moon	23082-04-24 19:12 G	10151701.06	10151701.30	10151701.54	0.0088	0.0026 *
Moon	23083-04-27 04:04 G	10152068.43	10152068.67	10152068.94	0.0088	0.0023
Earth	23083-04-27 05:45 G	10152068.49	10152068.74	10152068.99	0.0088	0.0027 *
Earth	23084-04-28 16:33 G	10152435.96	10152436.19	10152436.44	0.0088	0.0031
Moon	23084-04-28 18:57 G	10152436.08	10152436.29	10152436.54	0.0088	0.0035 *
Moon	23085-05-01 00:43 G	10152803.28	10152803.53	10152803.77	0.0088	0.0031
Earth	23085-05-01 03:50 G	10152803.43	10152803.66	10152803.91	0.0088	0.0035 *
Earth	23086-05-03 14:52 G	10153170.91	10153171.12	10153171.37	0.0088	0.0039
Moon	23086-05-03 18:43 G	10153171.06	10153171.28	10153171.51	0.0088	0.0043 *
Moon	23087-05-05 22:48 G	10153538.23	10153538.45	10153538.69	0.0088	0.0038
Earth	23087-05-06 02:09 G	10153538.39	10153538.59	10153538.84	0.0088	0.0043 *



Earth	23088-05-07 13:55 G	10153905.87	10153906.08	10153906.31	0.0088	0.0046
Moon	23088-05-07 16:33 G	10153905.98	10153906.19	10153906.42	0.0088	0.0050 *
Moon	23089-05-09 23:02 G	10154273.27	10154273.46	10154273.70	0.0088	0.0046
Earth	23089-05-10 01:12 G	10154273.36	10154273.55	10154273.79	0.0088	0.0050 *
Earth	23090-05-12 12:57 G	10154640.84	10154641.04	10154641.25	0.0088	0.0053
Moon	23090-05-12 13:26 G	10154640.88	10154641.06	10154641.28	0.0088	0.0057 *
Earth	23091-05-15 00:14 G	10155008.33	10155008.51	10155008.72	0.0088	0.0057
Moon	23091-05-15 00:57 G	10155008.35	10155008.54	10155008.75	0.0088	0.0053 *
Moon	23092-05-16 10:33 G	10155375.76	10155375.94	10155376.13	0.0088	0.0064
Earth	23092-05-16 12:00 G	10155375.82	10155376.00	10155376.20	0.0088	0.0060 *
Earth	23093-05-18 23:02 G	10155743.31	10155743.46	10155743.67	0.0088	0.0064
Moon	23093-05-19 02:09 G	10155743.41	10155743.59	10155743.79	0.0088	0.0059 *
Moon	23094-05-21 07:26 G	10156110.68	10156110.81	10156110.99	0.0088	0.0071
Earth	23094-05-21 10:48 G	10156110.80	10156110.95	10156111.14	0.0088	0.0067 *
Earth	23095-05-23 22:19 G	10156478.29	10156478.43	10156478.61	0.0089	0.0070
Moon	23095-05-24 01:40 G	10156478.43	10156478.57	10156478.77	0.0089	0.0066 *
Moon	23096-05-25 06:28 G	10156845.68	10156845.77	10156845.92	0.0089	0.0078
Earth	23096-05-25 10:19 G	10156845.80	10156845.93	10156846.09	0.0089	0.0073 *
Earth	23097-05-27 21:50 G	10157213.30	10157213.41	10157213.57	0.0089	0.0076
Moon	23097-05-28 00:28 G	10157213.39	10157213.52	10157213.70	0.0089	0.0072 *
Moon	23098-05-30 07:55 G	10157580.75	10157580.83	10157580.92	0.0089	0.0083
Earth	23098-05-30 09:36 G	10157580.81	10157580.90	10157581.04	0.0089	0.0079 *
Earth	23099-06-01 21:21 G	10157948.32	10157948.39	10157948.53	0.0089	0.0082
Moon	23099-06-01 22:19 G	10157948.32	10157948.43	10157948.59	0.0089	0.0077 *
Earth	23100-06-04 09:50 G	10158315.85	10158315.91	10158316.01	0.0089	0.0084
Moon	23100-06-04 10:48 G	10158315.93	10158315.95	10158315.98	0.0089	0.0088 *
Moon	23101-06-06 20:38 G	10158683.28	10158683.36	10158683.48	0.0089	0.0082
Earth	23101-06-06 21:50 G	10158683.38	10158683.41	10158683.49	0.0089	0.0087 *
Earth	23102-06-09 10:33 G	10159050.94	10159050.94	10159050.94	0.0089	0.0089
Moon	23103-06-11 18:43 G	10159418.25	10159418.28	10159418.36	0.0089	0.0087

Venus	23105-01-14 18:57 G	10160001.22	10160001.29	10160001.42	0.0089	0.0079
Venus	23105-08-28 08:24 G	10160226.70	10160226.85	10160227.03	0.0089	0.0059
Venus	23106-04-10 21:50 G	10160452.22	10160452.41	10160452.61	0.0089	0.0039
Venus	23106-11-22 11:02 G	10160677.74	10160677.96	10160678.17	0.0089	0.0019
Venus	23107-07-06 00:00 G	10160903.28	10160903.50	10160903.72	0.0089	0.0001
Venus	23108-02-16 12:57 G	10161128.83	10161129.04	10161129.26	0.0089	0.0020
Venus	23108-09-29 01:55 G	10161354.40	10161354.58	10161354.79	0.0089	0.0040
Venus	23109-05-12 15:07 G	10161579.98	10161580.13	10161580.31	0.0089	0.0060
Venus	23109-12-24 04:04 G	10161805.60	10161805.67	10161805.79	0.0089	0.0080
Mercury	23115-10-17 16:19 G	10163929.13	10163929.18	10163929.26	0.0089	0.0082
Mercury	23116-01-13 18:57 G	10164017.21	10164017.29	10164017.40	0.0089	0.0074
Mercury	23116-04-10 21:50 G	10164105.30	10164105.41	10164105.54	0.0089	0.0064
Mercury	23116-07-08 00:28 G	10164193.40	10164193.52	10164193.66	0.0089	0.0055
Mercury	23116-10-04 03:07 G	10164281.49	10164281.63	10164281.78	0.0089	0.0046
Mercury	23116-12-31 05:45 G	10164369.59	10164369.74	10164369.90	0.0089	0.0038
Mercury	23117-03-29 08:38 G	10164457.70	10164457.86	10164458.02	0.0089	0.0029
Mercury	23117-06-25 11:02 G	10164545.80	10164545.96	10164546.13	0.0089	0.0020
Mercury	23117-09-21 13:40 G	10164633.91	10164634.07	10164634.24	0.0089	0.0011
Mercury	23117-12-18 16:19 G	10164722.01	10164722.18	10164722.35	0.0089	0.0002
Mercury	23118-03-16 18:57 G	10164810.12	10164810.29	10164810.46	0.0089	0.0007
Mercury	23118-06-12 21:21 G	10164898.23	10164898.39	10164898.56	0.0089	0.0015
Mercury	23118-09-08 23:45 G	10164986.34	10164986.49	10164986.66	0.0089	0.0024
Mercury	23118-12-06 02:24 G	10165074.45	10165074.60	10165074.76	0.0089	0.0033
Mercury	23119-03-04 04:48 G	10165162.56	10165162.70	10165162.86	0.0089	0.0041
Mercury	23119-05-31 07:12 G	10165250.68	10165250.80	10165250.95	0.0089	0.0050
Mercury	23119-08-27 09:50 G	10165338.79	10165338.91	10165339.04	0.0089	0.0058
Mercury	23119-11-23 12:28 G	10165426.91	10165427.02	10165427.13	0.0089	0.0067
Mercury	23120-02-19 14:38 G	10165515.04	10165515.11	10165515.21	0.0089	0.0075
Mercury	23120-05-17 17:16 G	10165603.17	10165603.22	10165603.28	0.0089	0.0084
Earth	23133-08-18 21:21 G	10170444.38	10170444.39	10170444.45	0.0090	0.0089

Moon	23133-08-19 00:28 G	10170444.50	10170444.52	10170444.61	0.0090	0.0088
Moon	23134-08-21 07:55 G	10170811.78	10170811.83	10170811.90	0.0090	0.0087
Earth	23134-08-21 10:48 G	10170811.89	10170811.95	10170812.03	0.0090	0.0086 *
Earth	23135-08-23 23:16 G	10171179.41	10171179.47	10171179.60	0.0090	0.0084
Moon	23135-08-24 01:12 G	10171179.46	10171179.55	10171179.68	0.0090	0.0082 *
Moon	23136-08-25 11:45 G	10171546.92	10171546.99	10171547.12	0.0090	0.0082
Earth	23136-08-25 12:28 G	10171546.94	10171547.02	10171547.16	0.0090	0.0081 *
Moon	23137-08-28 01:26 G	10171914.44	10171914.56	10171914.72	0.0090	0.0077
Earth	23137-08-28 01:40 G	10171914.47	10171914.57	10171914.73	0.0090	0.0078 *
Earth	23138-08-30 14:52 G	10172282.00	10172282.12	10172282.29	0.0090	0.0075
Moon	23138-08-30 17:02 G	10172282.09	10172282.21	10172282.36	0.0090	0.0076 *
Moon	23139-09-02 01:55 G	10172649.43	10172649.58	10172649.75	0.0090	0.0071
Earth	23139-09-02 04:04 G	10172649.54	10172649.67	10172649.85	0.0090	0.0072 *
Earth	23140-09-03 17:45 G	10173017.08	10173017.24	10173017.41	0.0090	0.0068
Moon	23140-09-03 21:07 G	10173017.22	10173017.38	10173017.55	0.0090	0.0068 *
Moon	23141-09-06 03:07 G	10173384.46	10173384.63	10173384.82	0.0090	0.0064
Earth	23141-09-06 06:28 G	10173384.61	10173384.77	10173384.97	0.0090	0.0065 *
Earth	23142-09-08 19:26 G	10173752.14	10173752.31	10173752.52	0.0090	0.0062
Moon	23142-09-08 22:48 G	10173752.29	10173752.45	10173752.67	0.0090	0.0061 *
Moon	23143-09-11 05:31 G	10174119.56	10174119.73	10174119.94	0.0090	0.0059
Earth	23143-09-11 08:38 G	10174119.68	10174119.86	10174120.08	0.0090	0.0058 *
Earth	23144-09-12 21:50 G	10174487.21	10174487.41	10174487.62	0.0090	0.0054
Moon	23144-09-12 23:16 G	10174487.28	10174487.47	10174487.71	0.0090	0.0054 *
Moon	23145-09-15 09:21 G	10174854.70	10174854.89	10174855.11	0.0090	0.0052
Earth	23145-09-15 10:19 G	10174854.74	10174854.93	10174855.17	0.0090	0.0051 *
Moon	23146-09-17 23:16 G	10175222.26	10175222.47	10175222.72	0.0089	0.0046
Earth	23146-09-17 23:31 G	10175222.27	10175222.48	10175222.71	0.0089	0.0047 *
Earth	23147-09-20 12:28 G	10175589.80	10175590.02	10175590.26	0.0089	0.0043
Moon	23147-09-20 13:55 G	10175589.88	10175590.08	10175590.32	0.0089	0.0044 *
Moon	23148-09-21 23:02 G	10175957.24	10175957.46	10175957.72	0.0089	0.0038

Earth	23148-09-22 01:26 G	10175957.34	10175957.56	10175957.81	0.0089	0.0039	*
Earth	23149-09-24 14:09 G	10176324.87	10176325.09	10176325.34	0.0089	0.0035	
Moon	23149-09-24 17:16 G	10176325.01	10176325.22	10176325.47	0.0089	0.0037	*
Moon	23150-09-26 23:45 G	10176692.26	10176692.49	10176692.75	0.0089	0.0030	
Earth	23150-09-27 03:21 G	10176692.41	10176692.64	10176692.89	0.0089	0.0031	*
Earth	23151-09-29 16:19 G	10177059.94	10177060.18	10177060.44	0.0089	0.0026	
Moon	23151-09-29 19:55 G	10177060.09	10177060.33	10177060.58	0.0089	0.0029	*
Moon	23152-10-01 01:55 G	10177427.35	10177427.58	10177427.84	0.0089	0.0021	
Earth	23152-10-01 05:16 G	10177427.48	10177427.72	10177427.98	0.0089	0.0022	*
Earth	23153-10-03 18:00 G	10177795.01	10177795.25	10177795.52	0.0089	0.0018	
Moon	23153-10-03 20:09 G	10177795.09	10177795.34	10177795.61	0.0089	0.0020	*
Moon	23154-10-06 05:31 G	10178162.49	10178162.73	10178162.98	0.0089	0.0011	
Earth	23154-10-06 07:12 G	10178162.54	10178162.80	10178163.05	0.0089	0.0014	*
Moon	23155-10-08 19:40 G	10178530.06	10178530.32	10178530.59	0.0089	0.0012	
Earth	23155-10-08 19:40 G	10178530.07	10178530.32	10178530.58	0.0089	0.0010	*
Mars	23156-09-06 18:00 G	10178864.12	10178864.25	10178864.45	0.0089	0.0073	
Earth	23156-10-10 08:24 G	10178897.59	10178897.85	10178898.11	0.0089	0.0005	
Moon	23156-10-10 09:36 G	10178897.66	10178897.90	10178898.15	0.0089	0.0004	*
Moon	23157-10-12 18:57 G	10179265.02	10179265.29	10179265.55	0.0089	0.0004	
Earth	23157-10-12 20:52 G	10179265.11	10179265.37	10179265.63	0.0089	0.0001	*
Mars	23158-08-01 08:52 G	10179557.58	10179557.87	10179558.16	0.0089	0.0001	
Earth	23158-10-15 09:21 G	10179632.63	10179632.89	10179633.15	0.0089	0.0003	
Moon	23158-10-15 12:28 G	10179632.77	10179633.02	10179633.27	0.0089	0.0006	*
Moon	23159-10-17 18:28 G	10180000.01	10180000.27	10180000.53	0.0089	0.0005	
Earth	23159-10-17 21:50 G	10180000.16	10180000.41	10180000.67	0.0089	0.0008	*
Mars	23160-06-24 22:19 G	10180251.29	10180251.43	10180251.64	0.0089	0.0071	
Earth	23160-10-19 09:50 G	10180367.67	10180367.91	10180368.18	0.0089	0.0013	
Moon	23160-10-19 13:40 G	10180367.82	10180368.07	10180368.33	0.0089	0.0015	*
Moon	23161-10-21 19:26 G	10180735.06	10180735.31	10180735.56	0.0089	0.0013	
Earth	23161-10-21 22:33 G	10180735.19	10180735.44	10180735.70	0.0089	0.0016	*

Earth	23162-10-24 10:48 G	10181102.71	10181102.95	10181103.21	0.0089	0.0021
Moon	23162-10-24 13:12 G	10181102.80	10181103.05	10181103.32	0.0089	0.0024 *
Moon	23163-10-26 21:36 G	10181470.17	10181470.40	10181470.65	0.0089	0.0021
Earth	23163-10-26 23:16 G	10181470.23	10181470.47	10181470.73	0.0089	0.0025 *
Earth	23164-10-28 11:45 G	10181837.75	10181837.99	10181838.24	0.0089	0.0028
Moon	23164-10-28 11:45 G	10181837.76	10181837.99	10181838.25	0.0089	0.0032 *
Earth	23165-10-31 00:14 G	10182205.27	10182205.51	10182205.75	0.0089	0.0033
Moon	23165-10-31 01:12 G	10182205.32	10182205.55	10182205.79	0.0089	0.0030 *
Moon	23166-11-02 10:19 G	10182572.71	10182572.93	10182573.18	0.0089	0.0040
Earth	23166-11-02 12:28 G	10182572.79	10182573.02	10182573.26	0.0089	0.0037 *
Earth	23167-11-05 00:28 G	10182940.30	10182940.52	10182940.75	0.0089	0.0041
Moon	23167-11-05 03:21 G	10182940.42	10182940.64	10182940.88	0.0089	0.0037 *
Moon	23168-11-06 08:38 G	10183307.66	10183307.86	10183308.10	0.0089	0.0048
Earth	23168-11-06 12:28 G	10183307.80	10183308.02	10183308.25	0.0089	0.0044 *
Earth	23169-11-09 00:14 G	10183675.30	10183675.51	10183675.73	0.0089	0.0048
Moon	23169-11-09 03:36 G	10183675.45	10183675.65	10183675.89	0.0089	0.0044 *
Moon	23170-11-11 08:52 G	10184042.69	10184042.87	10184043.08	0.0089	0.0056
Earth	23170-11-11 12:00 G	10184042.81	10184043.00	10184043.23	0.0089	0.0052 *
Earth	23171-11-13 23:31 G	10184410.30	10184410.48	10184410.71	0.0089	0.0056
Moon	23171-11-14 01:55 G	10184410.39	10184410.58	10184410.82	0.0089	0.0052 *
Moon	23172-11-15 10:04 G	10184777.75	10184777.92	10184778.10	0.0089	0.0063
Earth	23172-11-15 11:31 G	10184777.81	10184777.98	10184778.19	0.0089	0.0059 *
Moon	23173-11-17 23:31 G	10185145.29	10185145.48	10185145.69	0.0089	0.0058
Earth	23173-11-17 23:02 G	10185145.30	10185145.46	10185145.67	0.0089	0.0063 *
Earth	23174-11-20 10:48 G	10185512.80	10185512.95	10185513.15	0.0089	0.0066
Moon	23174-11-20 12:00 G	10185512.87	10185513.00	10185513.17	0.0089	0.0070 *
Moon	23175-11-22 20:52 G	10185880.21	10185880.37	10185880.57	0.0089	0.0065
Earth	23175-11-22 23:02 G	10185880.31	10185880.46	10185880.63	0.0089	0.0069 *
Earth	23176-11-24 10:33 G	10186247.80	10186247.94	10186248.10	0.0089	0.0072
Moon	23176-11-24 13:12 G	10186247.95	10186248.05	10186248.20	0.0089	0.0077 *

Moon	23177-11-26 18:57 G	10186615.14	10186615.29	10186615.45	0.0089	0.0071
Earth	23177-11-26 21:50 G	10186615.31	10186615.41	10186615.57	0.0089	0.0076 *
Earth	23178-11-29 10:04 G	10186982.80	10186982.92	10186983.04	0.0089	0.0078
Moon	23178-11-29 13:26 G	10186982.99	10186983.06	10186983.16	0.0089	0.0083 *
Moon	23179-12-01 18:00 G	10187350.14	10187350.25	10187350.39	0.0089	0.0077
Earth	23179-12-01 21:21 G	10187350.30	10187350.39	10187350.50	0.0089	0.0081 *
Earth	23180-12-03 08:24 G	10187717.79	10187717.85	10187717.96	0.0089	0.0084
Moon	23180-12-03 11:02 G	10187717.94	10187717.96	10187718.01	0.0089	0.0088 *
Moon	23181-12-05 18:43 G	10188085.19	10188085.28	10188085.37	0.0089	0.0082
Earth	23181-12-05 19:40 G	10188085.30	10188085.32	10188085.41	0.0089	0.0087 *
Moon	23183-12-10 19:12 G	10188820.29	10188820.30	10188820.37	0.0089	0.0088
Venus	23186-07-21 06:14 G	10189773.64	10189773.76	10189773.90	0.0088	0.0071
Venus	23187-03-03 18:57 G	10189999.12	10189999.29	10189999.48	0.0088	0.0052
Venus	23187-10-15 08:09 G	10190224.64	10190224.84	10190225.05	0.0088	0.0032
Venus	23188-05-27 21:07 G	10190450.16	10190450.38	10190450.60	0.0088	0.0012
Venus	23189-01-08 09:50 G	10190675.70	10190675.91	10190676.13	0.0088	0.0007
Venus	23189-08-21 22:48 G	10190901.24	10190901.45	10190901.66	0.0088	0.0027
Venus	23190-04-04 11:16 G	10191126.80	10191126.97	10191127.18	0.0088	0.0047
Venus	23190-11-16 00:14 G	10191352.38	10191352.51	10191352.67	0.0088	0.0066
Venus	23191-06-29 13:26 G	10191578.00	10191578.06	10191578.12	0.0088	0.0085
Mercury	23196-10-22 10:19 G	10193519.88	10193519.93	10193519.97	0.0088	0.0084
Mercury	23197-01-18 11:45 G	10193607.93	10193607.99	10193608.07	0.0088	0.0077
Mercury	23197-04-16 13:26 G	10193695.98	10193696.06	10193696.16	0.0088	0.0069
Mercury	23197-07-13 15:07 G	10193784.04	10193784.13	10193784.24	0.0088	0.0062
Mercury	23197-10-09 16:48 G	10193872.10	10193872.20	10193872.32	0.0088	0.0055
Mercury	23198-01-05 18:28 G	10193960.16	10193960.27	10193960.40	0.0088	0.0048
Mercury	23198-04-03 20:24 G	10194048.22	10194048.35	10194048.48	0.0088	0.0040
Mercury	23198-06-30 22:04 G	10194136.29	10194136.42	10194136.56	0.0088	0.0033
Mercury	23198-09-26 23:45 G	10194224.36	10194224.49	10194224.64	0.0088	0.0026
Mercury	23198-12-24 01:40 G	10194312.43	10194312.57	10194312.72	0.0088	0.0018

Mercury	23199-03-22 03:21 G	10194400.50	10194400.64	10194400.79	0.0088	0.0011
Mercury	23199-06-18 05:16 G	10194488.57	10194488.72	10194488.87	0.0088	0.0004
Mercury	23199-09-14 06:57 G	10194576.64	10194576.79	10194576.94	0.0088	0.0004
Mercury	23199-12-11 08:52 G	10194664.72	10194664.87	10194665.01	0.0088	0.0011
Mercury	23200-03-08 10:19 G	10194752.79	10194752.93	10194753.09	0.0088	0.0020
Mercury	23200-06-04 12:14 G	10194840.87	10194841.01	10194841.16	0.0088	0.0026
Mercury	23200-08-31 13:55 G	10194928.95	10194929.08	10194929.23	0.0088	0.0034
Mercury	23200-11-27 15:50 G	10195017.03	10195017.16	10195017.30	0.0088	0.0041
Mercury	23201-02-23 17:31 G	10195105.12	10195105.23	10195105.37	0.0088	0.0049
Mercury	23201-05-22 19:26 G	10195193.20	10195193.31	10195193.43	0.0088	0.0057
Mercury	23201-08-18 21:07 G	10195281.29	10195281.38	10195281.50	0.0088	0.0064
Mercury	23201-11-14 23:02 G	10195369.39	10195369.46	10195369.56	0.0088	0.0072
Mercury	23202-02-11 00:57 G	10195457.49	10195457.54	10195457.61	0.0088	0.0079
Mercury	23202-05-10 02:38 G	10195545.61	10195545.61	10195545.65	0.0088	0.0087
Moon	23214-02-13 22:19 G	10199843.42	10199843.43	10199843.49	0.0088	0.0087
Jupiter	23215-08-18 10:48 G	10200393.66	10200393.95	10200394.36	0.0088	0.0070
Moon	23216-02-18 20:38 G	10200578.28	10200578.36	10200578.45	0.0088	0.0082
Earth	23216-02-18 22:19 G	10200578.42	10200578.43	10200578.50	0.0088	0.0087 *
Earth	23217-02-20 08:52 G	10200945.82	10200945.87	10200945.96	0.0088	0.0084
Moon	23217-02-20 10:48 G	10200945.93	10200945.95	10200945.98	0.0088	0.0087 *
Moon	23218-02-22 18:43 G	10201313.19	10201313.28	10201313.42	0.0088	0.0078
Earth	23218-02-22 18:57 G	10201313.23	10201313.29	10201313.41	0.0088	0.0082 *
Moon	23219-02-25 03:50 G	10201680.60	10201680.66	10201680.78	0.0088	0.0083
Earth	23219-02-25 05:16 G	10201680.64	10201680.72	10201680.86	0.0088	0.0079 *
Earth	23220-02-27 15:36 G	10202048.04	10202048.15	10202048.30	0.0088	0.0076
Moon	23220-02-27 18:00 G	10202048.12	10202048.25	10202048.40	0.0088	0.0072 *
Moon	23221-02-28 22:48 G	10202415.35	10202415.45	10202415.60	0.0088	0.0077
Earth	23221-03-01 01:55 G	10202415.46	10202415.58	10202415.75	0.0088	0.0073 *
Earth	23222-03-03 12:14 G	10202782.88	10202783.01	10202783.18	0.0088	0.0070
Moon	23222-03-03 15:36 G	10202783.01	10202783.15	10202783.35	0.0088	0.0066 *

Moon	23223-03-05 18:57 G	10203150.17	10203150.29	10203150.47	0.0088	0.0071
Earth	23223-03-05 22:19 G	10203150.29	10203150.43	10203150.62	0.0088	0.0067 *
Earth	23224-03-07 08:38 G	10203517.71	10203517.86	10203518.06	0.0088	0.0064
Moon	23224-03-07 12:00 G	10203517.83	10203518.00	10203518.21	0.0088	0.0060 *
Moon	23225-03-09 17:31 G	10203885.07	10203885.23	10203885.41	0.0088	0.0064
Earth	23225-03-09 19:12 G	10203885.13	10203885.30	10203885.50	0.0088	0.0060 *
Earth	23226-03-12 05:16 G	10204252.55	10204252.72	10204252.94	0.0088	0.0057
Moon	23226-03-12 06:43 G	10204252.58	10204252.78	10204253.00	0.0088	0.0053 *
Earth	23227-03-14 16:04 G	10204619.98	10204620.17	10204620.39	0.0088	0.0053
Moon	23227-03-14 16:04 G	10204620.00	10204620.17	10204620.37	0.0088	0.0057 *
Moon	23228-03-16 00:28 G	10204987.31	10204987.52	10204987.77	0.0088	0.0046
Earth	23228-03-16 02:24 G	10204987.41	10204987.60	10204987.83	0.0088	0.0050 *
Earth	23229-03-18 12:57 G	10205354.84	10205355.04	10205355.28	0.0088	0.0046
Moon	23229-03-18 15:50 G	10205354.95	10205355.16	10205355.37	0.0088	0.0049 *
Moon	23230-03-20 20:38 G	10205722.13	10205722.36	10205722.59	0.0088	0.0038
Earth	23230-03-20 23:45 G	10205722.27	10205722.49	10205722.72	0.0088	0.0042 *
Earth	23231-03-23 10:04 G	10206089.70	10206089.92	10206090.16	0.0088	0.0038
Moon	23231-03-23 13:40 G	10206089.86	10206090.07	10206090.31	0.0088	0.0042 *
Moon	23232-03-24 17:16 G	10206457.00	10206457.22	10206457.47	0.0088	0.0031
Earth	23232-03-24 20:52 G	10206457.13	10206457.37	10206457.61	0.0088	0.0034 *
Earth	23233-03-27 07:12 G	10206824.56	10206824.80	10206825.05	0.0088	0.0030
Moon	23233-03-27 10:04 G	10206824.69	10206824.92	10206825.18	0.0088	0.0034 *
Moon	23234-03-29 16:04 G	10207191.94	10207192.17	10207192.42	0.0088	0.0023
Earth	23234-03-29 17:16 G	10207191.99	10207192.22	10207192.49	0.0088	0.0027 *
Earth	23235-04-01 04:19 G	10207559.43	10207559.68	10207559.93	0.0088	0.0022
Moon	23235-04-01 04:48 G	10207559.45	10207559.70	10207559.96	0.0088	0.0025 *
Earth	23236-04-02 14:24 G	10207926.86	10207927.10	10207927.37	0.0088	0.0019
Moon	23236-04-02 15:07 G	10207926.89	10207927.13	10207927.38	0.0088	0.0015 *
Moon	23237-04-04 23:02 G	10208294.20	10208294.46	10208294.72	0.0088	0.0018
Earth	23237-04-05 01:26 G	10208294.30	10208294.56	10208294.81	0.0088	0.0014 *



Earth	23238-04-07 12:00 G	10208661.74	10208662.00	10208662.25	0.0088	0.0010
Moon	23238-04-07 14:38 G	10208661.86	10208662.11	10208662.36	0.0088	0.0007 *
Moon	23239-04-09 19:12 G	10209029.04	10209029.30	10209029.56	0.0088	0.0009
Earth	23239-04-09 22:33 G	10209029.19	10209029.44	10209029.70	0.0088	0.0006 *
Earth	23240-04-11 09:21 G	10209396.63	10209396.89	10209397.15	0.0088	0.0002
Moon	23240-04-11 12:57 G	10209396.78	10209397.04	10209397.30	0.0088	0.0002 *
Mars	23240-06-10 11:02 G	10209456.67	10209456.96	10209457.27	0.0088	0.0043
Moon	23241-04-13 17:16 G	10209763.96	10209764.22	10209764.47	0.0088	0.0001
Earth	23241-04-13 20:24 G	10209764.09	10209764.35	10209764.61	0.0088	0.0002 *
Earth	23242-04-16 06:57 G	10210131.54	10210131.79	10210132.05	0.0088	0.0007
Moon	23242-04-16 09:50 G	10210131.65	10210131.91	10210132.18	0.0088	0.0009 *
Mars	23242-05-07 19:12 G	10210153.02	10210153.30	10210153.63	0.0088	0.0040
Moon	23243-04-18 16:48 G	10210498.95	10210499.20	10210499.45	0.0088	0.0008
Earth	23243-04-18 18:00 G	10210499.00	10210499.25	10210499.51	0.0088	0.0011 *
Earth	23244-04-20 04:48 G	10210866.45	10210866.70	10210866.96	0.0088	0.0015
Moon	23244-04-20 05:16 G	10210866.46	10210866.72	10210866.99	0.0088	0.0017 *
Earth	23245-04-22 15:36 G	10211233.91	10211234.15	10211234.41	0.0088	0.0019
Moon	23245-04-22 16:33 G	10211233.95	10211234.19	10211234.44	0.0088	0.0016 *
Moon	23246-04-25 00:14 G	10211601.26	10211601.51	10211601.77	0.0088	0.0026
Earth	23246-04-25 02:38 G	10211601.37	10211601.61	10211601.87	0.0088	0.0023 *
Earth	23247-04-27 13:26 G	10211968.83	10211969.06	10211969.32	0.0088	0.0027
Moon	23247-04-27 16:04 G	10211968.95	10211969.17	10211969.43	0.0088	0.0025 *
Moon	23248-04-28 20:52 G	10212336.15	10212336.37	10212336.63	0.0088	0.0034
Earth	23248-04-29 00:28 G	10212336.30	10212336.52	10212336.78	0.0088	0.0032 *
Earth	23249-05-01 11:31 G	10212703.76	10212703.98	10212704.23	0.0088	0.0036
Moon	23249-05-01 15:07 G	10212703.90	10212704.13	10212704.39	0.0088	0.0033 *
Moon	23250-05-03 19:26 G	10213071.10	10213071.31	10213071.55	0.0088	0.0042
Earth	23250-05-03 22:33 G	10213071.23	10213071.44	10213071.69	0.0088	0.0039 *
Earth	23251-05-06 09:50 G	10213438.70	10213438.91	10213439.15	0.0088	0.0043
Moon	23251-05-06 12:28 G	10213438.80	10213439.02	10213439.27	0.0088	0.0041 *

Moon	23252-05-07 20:24 G	10213806.15	10213806.35	10213806.57	0.0088	0.0049
Earth	23252-05-07 21:07 G	10213806.18	10213806.38	10213806.62	0.0088	0.0047 *
Earth	23253-05-10 08:52 G	10214173.66	10214173.87	10214174.08	0.0088	0.0051
Moon	23253-05-10 08:38 G	10214173.66	10214173.86	10214174.11	0.0088	0.0049 *
Earth	23254-05-12 20:09 G	10214541.15	10214541.34	10214541.56	0.0088	0.0055
Moon	23254-05-12 21:07 G	10214541.20	10214541.38	10214541.59	0.0088	0.0057 *
Moon	23255-05-15 05:02 G	10214908.52	10214908.71	10214908.93	0.0088	0.0056
Earth	23255-05-15 07:26 G	10214908.64	10214908.81	10214909.03	0.0088	0.0059 *
Earth	23256-05-16 19:26 G	10215276.13	10215276.31	10215276.50	0.0088	0.0062
Moon	23256-05-16 22:04 G	10215276.26	10215276.42	10215276.61	0.0088	0.0064 *
Moon	23257-05-19 03:07 G	10215643.47	10215643.63	10215643.83	0.0088	0.0064
Earth	23257-05-19 06:43 G	10215643.63	10215643.78	10215643.98	0.0088	0.0066 *
Earth	23258-05-21 18:28 G	10216011.12	10216011.27	10216011.44	0.0088	0.0069
Moon	23258-05-21 21:50 G	10216011.27	10216011.41	10216011.58	0.0088	0.0071 *
Moon	23259-05-24 02:38 G	10216378.49	10216378.61	10216378.79	0.0088	0.0072
Earth	23259-05-24 05:45 G	10216378.62	10216378.74	10216378.92	0.0088	0.0073 *
Earth	23260-05-25 17:31 G	10216746.12	10216746.23	10216746.39	0.0089	0.0076
Moon	23260-05-25 20:09 G	10216746.23	10216746.34	10216746.50	0.0089	0.0077 *
Moon	23261-05-28 04:19 G	10217113.58	10217113.68	10217113.82	0.0089	0.0078
Earth	23261-05-28 05:16 G	10217113.63	10217113.72	10217113.86	0.0089	0.0079 *
Earth	23262-05-30 17:02 G	10217481.14	10217481.21	10217481.33	0.0089	0.0082
Moon	23262-05-30 17:45 G	10217481.15	10217481.24	10217481.34	0.0089	0.0082 *
Earth	23263-06-02 04:48 G	10217848.65	10217848.70	10217848.80	0.0089	0.0085
Moon	23263-06-02 06:14 G	10217848.70	10217848.76	10217848.85	0.0089	0.0084 *
Earth	23264-06-03 16:48 G	10218216.19	10218216.20	10218216.27	0.0089	0.0088
Venus	23269-04-18 04:48 G	10219995.69	10219995.70	10219995.76	0.0089	0.0088
Venus	23269-11-29 18:00 G	10220221.13	10220221.25	10220221.41	0.0089	0.0068
Venus	23270-07-13 07:12 G	10220446.63	10220446.80	10220447.00	0.0089	0.0048
Venus	23271-02-23 20:38 G	10220672.15	10220672.36	10220672.57	0.0089	0.0028
Venus	23271-10-07 09:36 G	10220897.69	10220897.90	10220898.13	0.0089	0.0009

Venus	23272-05-19 22:48 G	10221123.24	10221123.45	10221123.67	0.0089	0.0012
Venus	23272-12-31 11:45 G	10221348.79	10221348.99	10221349.21	0.0089	0.0031
Venus	23273-08-14 00:43 G	10221574.37	10221574.53	10221574.73	0.0089	0.0051
Venus	23274-03-27 13:40 G	10221799.96	10221800.07	10221800.23	0.0089	0.0071
Mercury	23280-04-16 12:28 G	10224012.01	10224012.02	10224012.04	0.0089	0.0089
Mercury	23280-07-13 15:07 G	10224100.06	10224100.13	10224100.21	0.0089	0.0080
Mercury	23280-10-09 17:45 G	10224188.14	10224188.24	10224188.35	0.0089	0.0071
Mercury	23281-01-05 20:38 G	10224276.24	10224276.36	10224276.48	0.0089	0.0062
Mercury	23281-04-03 23:16 G	10224364.33	10224364.47	10224364.61	0.0089	0.0053
Mercury	23281-07-01 01:55 G	10224452.43	10224452.58	10224452.73	0.0089	0.0044
Mercury	23281-09-27 04:19 G	10224540.53	10224540.68	10224540.85	0.0089	0.0035
Mercury	23281-12-24 06:57 G	10224628.64	10224628.79	10224628.96	0.0089	0.0026
Mercury	23282-03-22 09:36 G	10224716.74	10224716.90	10224717.07	0.0089	0.0017
Mercury	23282-06-18 12:28 G	10224804.85	10224805.02	10224805.18	0.0089	0.0008
Mercury	23282-09-14 14:52 G	10224892.96	10224893.12	10224893.29	0.0089	0.0002
Mercury	23282-12-11 17:31 G	10224981.06	10224981.23	10224981.40	0.0089	0.0009
Mercury	23283-03-09 19:55 G	10225069.17	10225069.33	10225069.50	0.0089	0.0019
Mercury	23283-06-05 22:33 G	10225157.28	10225157.44	10225157.60	0.0089	0.0027
Mercury	23283-09-02 01:12 G	10225245.40	10225245.55	10225245.70	0.0089	0.0035
Mercury	23283-11-29 03:21 G	10225333.51	10225333.64	10225333.80	0.0089	0.0045
Mercury	23284-02-25 06:00 G	10225421.63	10225421.75	10225421.89	0.0089	0.0053
Mercury	23284-05-23 08:24 G	10225509.74	10225509.85	10225509.98	0.0089	0.0061
Mercury	23284-08-19 11:02 G	10225597.87	10225597.96	10225598.07	0.0089	0.0070
Mercury	23284-11-15 13:12 G	10225685.99	10225686.05	10225686.15	0.0089	0.0079
Mercury	23285-02-11 15:50 G	10225774.13	10225774.16	10225774.21	0.0089	0.0087
Moon	23298-08-20 18:14 G	10230712.22	10230712.26	10230712.36	0.0089	0.0087
Earth	23299-08-23 06:14 G	10231079.73	10231079.76	10231079.82	0.0090	0.0088
Moon	23300-08-25 17:31 G	10231447.15	10231447.23	10231447.37	0.0090	0.0082
Earth	23300-08-25 19:40 G	10231447.24	10231447.32	10231447.40	0.0090	0.0085 *
Earth	23301-08-28 08:24 G	10231814.76	10231814.85	10231814.96	0.0090	0.0082

Moon	23301-08-28 10:19 G	10231814.89	10231814.93	10231815.01	0.0090	0.0087	*
Moon	23302-08-30 18:00 G	10232182.13	10232182.25	10232182.42	0.0090	0.0075	
Earth	23302-08-30 21:36 G	10232182.29	10232182.40	10232182.53	0.0090	0.0079	*
Earth	23303-09-02 10:33 G	10232549.82	10232549.94	10232550.10	0.0090	0.0076	
Moon	23303-09-02 14:09 G	10232549.99	10232550.09	10232550.22	0.0090	0.0080	*
Moon	23304-09-03 19:55 G	10232917.19	10232917.33	10232917.53	0.0090	0.0068	
Earth	23304-09-03 23:31 G	10232917.36	10232917.48	10232917.66	0.0090	0.0073	*
Earth	23305-09-06 12:57 G	10233284.89	10233285.04	10233285.22	0.0090	0.0069	
Moon	23305-09-06 15:50 G	10233285.04	10233285.16	10233285.34	0.0090	0.0074	*
Moon	23306-09-09 00:14 G	10233652.33	10233652.51	10233652.70	0.0090	0.0061	
Earth	23306-09-09 02:38 G	10233652.44	10233652.61	10233652.79	0.0090	0.0065	*
Earth	23307-09-11 15:07 G	10234019.97	10234020.13	10234020.34	0.0090	0.0062	
Moon	23307-09-11 17:02 G	10234020.05	10234020.21	10234020.41	0.0090	0.0066	*
Earth	23308-09-13 04:19 G	10234387.50	10234387.68	10234387.90	0.0090	0.0058	
Moon	23308-09-13 04:19 G	10234387.50	10234387.68	10234387.90	0.0090	0.0054	*
Moon	23309-09-15 16:19 G	10234754.99	10234755.18	10234755.40	0.0090	0.0058	
Earth	23309-09-15 17:16 G	10234755.03	10234755.22	10234755.45	0.0090	0.0054	*
Earth	23310-09-18 06:14 G	10235122.57	10235122.76	10235123.00	0.0090	0.0050	
Moon	23310-09-18 08:24 G	10235122.64	10235122.85	10235123.07	0.0090	0.0045	*
Moon	23311-09-20 16:19 G	10235489.97	10235490.18	10235490.40	0.0090	0.0050	
Earth	23311-09-20 19:12 G	10235490.10	10235490.30	10235490.54	0.0090	0.0046	*
Earth	23312-09-22 07:55 G	10235857.62	10235857.83	10235858.08	0.0090	0.0042	
Moon	23312-09-22 11:31 G	10235857.75	10235857.98	10235858.22	0.0090	0.0037	*
Moon	23313-09-24 17:16 G	10236225.00	10236225.22	10236225.46	0.0089	0.0042	
Earth	23313-09-24 21:21 G	10236225.15	10236225.39	10236225.62	0.0089	0.0037	*
Earth	23314-09-27 10:04 G	10236592.68	10236592.92	10236593.16	0.0089	0.0033	
Moon	23314-09-27 12:57 G	10236592.81	10236593.04	10236593.30	0.0089	0.0029	*
Moon	23315-09-29 20:09 G	10236960.11	10236960.34	10236960.58	0.0089	0.0033	
Earth	23315-09-29 22:48 G	10236960.21	10236960.45	10236960.70	0.0089	0.0029	*
Earth	23316-10-01 11:31 G	10237327.74	10237327.98	10237328.24	0.0089	0.0024	

Moon	23316-10-01 13:40 G	10237327.81	10237328.07	10237328.33	0.0089	0.0020	*
Moon	23317-10-04 00:14 G	10237695.28	10237695.51	10237695.76	0.0089	0.0024	
Earth	23317-10-04 00:43 G	10237695.28	10237695.53	10237695.78	0.0089	0.0020	*
Moon	23318-10-06 12:57 G	10238062.78	10238063.04	10238063.31	0.0089	0.0011	
Earth	23318-10-06 13:26 G	10238062.81	10238063.06	10238063.32	0.0089	0.0016	*
Earth	23319-10-09 02:09 G	10238430.34	10238430.59	10238430.86	0.0089	0.0012	
Moon	23319-10-09 03:50 G	10238430.42	10238430.66	10238430.92	0.0089	0.0016	*
Moon	23320-10-10 12:00 G	10238797.74	10238798.00	10238798.26	0.0089	0.0002	
Earth	23320-10-10 15:07 G	10238797.87	10238798.13	10238798.39	0.0089	0.0007	*
Earth	23321-10-13 03:36 G	10239165.39	10239165.65	10239165.91	0.0089	0.0002	
Moon	23321-10-13 06:43 G	10239165.53	10239165.78	10239166.04	0.0089	0.0006	*
Mars	23322-03-17 19:12 G	10239321.04	10239321.30	10239321.58	0.0089	0.0029	
Moon	23322-10-15 12:43 G	10239532.77	10239533.03	10239533.28	0.0089	0.0007	
Earth	23322-10-15 16:19 G	10239532.92	10239533.18	10239533.44	0.0089	0.0002	*
Earth	23323-10-18 04:33 G	10239900.44	10239900.69	10239900.95	0.0089	0.0007	
Moon	23323-10-18 07:55 G	10239900.57	10239900.83	10239901.09	0.0089	0.0003	*
Mars	23324-02-09 09:07 G	10240014.64	10240014.88	10240015.15	0.0089	0.0043	
Moon	23324-10-19 14:24 G	10240267.85	10240268.10	10240268.35	0.0089	0.0015	
Earth	23324-10-19 17:02 G	10240267.96	10240268.21	10240268.47	0.0089	0.0011	*
Earth	23325-10-22 05:31 G	10240635.48	10240635.73	10240635.99	0.0089	0.0016	
Moon	23325-10-22 07:26 G	10240635.56	10240635.81	10240636.09	0.0089	0.0013	*
Moon	23326-10-24 17:16 G	10241002.99	10241003.22	10241003.47	0.0089	0.0024	
Earth	23326-10-24 17:45 G	10241003.00	10241003.24	10241003.50	0.0089	0.0020	*
Moon	23327-10-27 05:45 G	10241370.49	10241370.74	10241371.01	0.0089	0.0022	
Earth	23327-10-27 06:14 G	10241370.52	10241370.76	10241371.01	0.0089	0.0025	*
Earth	23328-10-28 18:14 G	10241738.03	10241738.26	10241738.52	0.0089	0.0029	
Moon	23328-10-28 19:55 G	10241738.11	10241738.33	10241738.57	0.0089	0.0032	*
Moon	23329-10-31 03:50 G	10242105.42	10242105.66	10242105.92	0.0089	0.0029	
Earth	23329-10-31 06:43 G	10242105.55	10242105.78	10242106.03	0.0089	0.0033	*
Earth	23330-11-02 19:12 G	10242473.07	10242473.30	10242473.54	0.0089	0.0037	

Moon	23330-11-02 22:19 G	10242473.21	10242473.43	10242473.66	0.0089	0.0040	*
Moon	23331-11-05 03:36 G	10242840.43	10242840.65	10242840.90	0.0089	0.0038	
Earth	23331-11-05 07:26 G	10242840.59	10242840.81	10242841.05	0.0089	0.0041	*
Earth	23332-11-06 19:40 G	10243208.10	10243208.32	10243208.55	0.0089	0.0045	
Moon	23332-11-06 22:33 G	10243208.25	10243208.44	10243208.68	0.0089	0.0049	*
Moon	23333-11-09 04:48 G	10243575.50	10243575.70	10243575.92	0.0089	0.0047	
Earth	23333-11-09 07:55 G	10243575.62	10243575.83	10243576.05	0.0089	0.0049	*
Earth	23334-11-11 19:40 G	10243943.13	10243943.32	10243943.54	0.0089	0.0053	
Moon	23334-11-11 21:36 G	10243943.22	10243943.40	10243943.63	0.0089	0.0057	*
Moon	23335-11-14 06:43 G	10244310.61	10244310.78	10244311.00	0.0089	0.0055	
Earth	23335-11-14 07:40 G	10244310.63	10244310.82	10244311.02	0.0089	0.0057	*
Earth	23336-11-15 19:12 G	10244678.13	10244678.30	10244678.50	0.0089	0.0061	
Moon	23336-11-15 19:12 G	10244678.13	10244678.30	10244678.50	0.0089	0.0063	*
Earth	23337-11-18 06:57 G	10245045.64	10245045.79	10245045.99	0.0089	0.0065	
Moon	23337-11-18 08:52 G	10245045.70	10245045.87	10245046.05	0.0089	0.0062	*
Moon	23338-11-20 16:04 G	10245413.03	10245413.17	10245413.34	0.0089	0.0071	
Earth	23338-11-20 18:57 G	10245413.14	10245413.29	10245413.47	0.0089	0.0068	*
Earth	23339-11-23 06:14 G	10245780.63	10245780.76	10245780.93	0.0089	0.0072	
Moon	23339-11-23 09:21 G	10245780.76	10245780.89	10245781.07	0.0089	0.0070	*
Moon	23340-11-24 14:09 G	10246147.99	10246148.09	10246148.24	0.0089	0.0078	
Earth	23340-11-24 18:14 G	10246148.14	10246148.26	10246148.41	0.0089	0.0075	*
Earth	23341-11-27 06:00 G	10246515.64	10246515.75	10246515.88	0.0089	0.0078	
Moon	23341-11-27 09:07 G	10246515.77	10246515.88	10246516.03	0.0089	0.0076	*
Moon	23342-11-29 14:38 G	10246883.04	10246883.11	10246883.21	0.0089	0.0083	
Earth	23342-11-29 17:16 G	10246883.15	10246883.22	10246883.35	0.0089	0.0082	*
Earth	23343-12-02 04:48 G	10247250.65	10247250.70	10247250.81	0.0089	0.0085	
Moon	23343-12-02 06:43 G	10247250.72	10247250.78	10247250.91	0.0089	0.0083	*
Earth	23344-12-03 16:48 G	10247618.17	10247618.20	10247618.25	0.0089	0.0087	
Moon	23345-12-06 03:50 G	10247985.66	10247985.66	10247985.69	0.0089	0.0089	
Venus	23350-10-23 15:50 G	10249768.08	10249768.16	10249768.27	0.0089	0.0080	

Venus	23351-06-06 04:33 G	10249993.55	10249993.69	10249993.87	0.0088	0.0061
Venus	23352-01-17 17:45 G	10250219.05	10250219.24	10250219.44	0.0088	0.0041
Venus	23352-08-30 06:28 G	10250444.57	10250444.77	10250444.99	0.0088	0.0022
Venus	23353-04-12 19:26 G	10250670.09	10250670.31	10250670.53	0.0088	0.0002
Venus	23353-11-24 08:24 G	10250895.63	10250895.85	10250896.06	0.0088	0.0018
Venus	23354-07-07 20:52 G	10251121.18	10251121.37	10251121.58	0.0088	0.0037
Venus	23355-02-18 09:36 G	10251346.75	10251346.90	10251347.09	0.0088	0.0057
Venus	23355-10-01 22:48 G	10251572.35	10251572.45	10251572.57	0.0088	0.0076
Mercury	23361-07-20 09:21 G	10253690.84	10253690.89	10253690.94	0.0088	0.0081
Mercury	23361-10-16 10:48 G	10253778.89	10253778.95	10253779.04	0.0088	0.0075
Mercury	23362-01-12 12:28 G	10253866.94	10253867.02	10253867.13	0.0088	0.0068
Mercury	23362-04-10 14:09 G	10253955.00	10253955.09	10253955.21	0.0088	0.0060
Mercury	23362-07-07 15:50 G	10254043.06	10254043.16	10254043.29	0.0088	0.0053
Mercury	23362-10-03 17:45 G	10254131.12	10254131.24	10254131.37	0.0088	0.0046
Mercury	23362-12-30 19:26 G	10254219.19	10254219.31	10254219.45	0.0088	0.0038
Mercury	23363-03-28 21:07 G	10254307.25	10254307.38	10254307.53	0.0088	0.0031
Mercury	23363-06-24 22:48 G	10254395.32	10254395.45	10254395.60	0.0088	0.0025
Mercury	23363-09-21 00:43 G	10254483.39	10254483.53	10254483.68	0.0088	0.0016
Mercury	23363-12-18 02:24 G	10254571.46	10254571.60	10254571.75	0.0088	0.0010
Mercury	23364-03-15 04:19 G	10254659.53	10254659.68	10254659.83	0.0088	0.0002
Mercury	23364-06-11 06:00 G	10254747.60	10254747.75	10254747.90	0.0088	0.0006
Mercury	23364-09-07 07:55 G	10254835.68	10254835.83	10254835.97	0.0088	0.0013
Mercury	23364-12-04 09:21 G	10254923.76	10254923.89	10254924.04	0.0088	0.0021
Mercury	23365-03-02 11:16 G	10255011.83	10255011.97	10255012.11	0.0088	0.0028
Mercury	23365-05-29 12:57 G	10255099.91	10255100.04	10255100.18	0.0088	0.0036
Mercury	23365-08-25 14:52 G	10255187.99	10255188.12	10255188.25	0.0088	0.0043
Mercury	23365-11-21 16:33 G	10255276.08	10255276.19	10255276.32	0.0088	0.0051
Mercury	23366-02-17 18:28 G	10255364.16	10255364.27	10255364.39	0.0088	0.0058
Mercury	23366-05-16 20:09 G	10255452.25	10255452.34	10255452.45	0.0088	0.0066
Mercury	23366-08-12 21:50 G	10255540.35	10255540.41	10255540.51	0.0088	0.0074

Mercury	23366-11-09 00:00 G	10255628.45	10255628.50	10255628.56	0.0088	0.0081
Jupiter	23381-10-21 01:55 G	10261088.04	10261088.58	10261089.17	0.0088	0.0012
Moon	23382-02-23 01:55 G	10261213.57	10261213.58	10261213.64	0.0088	0.0087
Earth	23382-02-23 03:21 G	10261213.62	10261213.64	10261213.72	0.0088	0.0086 *
Earth	23383-02-25 13:40 G	10261581.01	10261581.07	10261581.17	0.0088	0.0083
Moon	23383-02-25 16:33 G	10261581.13	10261581.19	10261581.30	0.0088	0.0082 *
Moon	23384-02-27 20:38 G	10261948.28	10261948.36	10261948.48	0.0088	0.0081
Earth	23384-02-28 00:14 G	10261948.42	10261948.51	10261948.63	0.0088	0.0080 *
Earth	23385-03-01 10:19 G	10262315.83	10262315.93	10262316.07	0.0088	0.0077
Moon	23385-03-01 13:55 G	10262315.97	10262316.08	10262316.23	0.0088	0.0075 *
Moon	23386-03-03 17:16 G	10262683.11	10262683.22	10262683.37	0.0088	0.0075
Earth	23386-03-03 20:24 G	10262683.24	10262683.35	10262683.52	0.0088	0.0074 *
Earth	23387-03-06 06:28 G	10263050.65	10263050.77	10263050.95	0.0088	0.0071
Moon	23387-03-06 09:07 G	10263050.74	10263050.88	10263051.07	0.0088	0.0069 *
Moon	23388-03-07 15:36 G	10263418.00	10263418.15	10263418.31	0.0088	0.0069
Earth	23388-03-07 17:16 G	10263418.07	10263418.22	10263418.39	0.0088	0.0067 *
Earth	23389-03-10 03:07 G	10263785.48	10263785.63	10263785.83	0.0088	0.0064
Moon	23389-03-10 03:21 G	10263785.48	10263785.64	10263785.85	0.0088	0.0062 *
Earth	23390-03-12 13:40 G	10264152.90	10264153.07	10264153.27	0.0088	0.0060
Moon	23390-03-12 14:24 G	10264152.95	10264153.10	10264153.30	0.0088	0.0062 *
Moon	23391-03-14 22:19 G	10264520.22	10264520.43	10264520.64	0.0088	0.0054
Earth	23391-03-14 23:31 G	10264520.31	10264520.48	10264520.70	0.0088	0.0057 *
Earth	23392-03-16 10:04 G	10264887.73	10264887.92	10264888.14	0.0088	0.0053
Moon	23392-03-16 13:12 G	10264887.87	10264888.05	10264888.27	0.0088	0.0055 *
Moon	23393-03-18 17:02 G	10265255.02	10265255.21	10265255.45	0.0088	0.0048
Earth	23393-03-18 20:38 G	10265255.16	10265255.36	10265255.59	0.0088	0.0049 *
Earth	23394-03-21 06:57 G	10265622.59	10265622.79	10265623.03	0.0088	0.0045
Moon	23394-03-21 10:33 G	10265622.74	10265622.94	10265623.17	0.0088	0.0048 *
Moon	23395-03-23 14:38 G	10265989.89	10265990.11	10265990.35	0.0088	0.0039
Earth	23395-03-23 17:45 G	10265990.02	10265990.24	10265990.48	0.0088	0.0041 *



Earth	23396-03-25 04:19 G	10266357.45	10266357.68	10266357.92	0.0088	0.0037
Moon	23396-03-25 06:28 G	10266357.54	10266357.77	10266358.01	0.0088	0.0039 *
Moon	23397-03-27 13:12 G	10266724.83	10266725.05	10266725.30	0.0088	0.0031
Earth	23397-03-27 14:38 G	10266724.89	10266725.11	10266725.36	0.0088	0.0033 *
Moon	23398-03-30 00:43 G	10267092.30	10267092.53	10267092.80	0.0088	0.0031
Earth	23398-03-30 01:12 G	10267092.32	10267092.55	10267092.80	0.0088	0.0029 *
Earth	23399-04-01 11:31 G	10267459.75	10267459.98	10267460.24	0.0088	0.0025
Moon	23399-04-01 13:12 G	10267459.82	10267460.05	10267460.30	0.0088	0.0023 *
Moon	23400-04-03 19:55 G	10267827.09	10267827.33	10267827.60	0.0088	0.0023
Earth	23400-04-03 22:33 G	10267827.19	10267827.44	10267827.69	0.0088	0.0020 *
Earth	23401-04-06 08:52 G	10268194.62	10268194.87	10268195.13	0.0088	0.0016
Moon	23401-04-06 12:14 G	10268194.77	10268195.01	10268195.27	0.0088	0.0014 *
Moon	23402-04-08 15:50 G	10268561.92	10268562.16	10268562.43	0.0088	0.0014
Earth	23402-04-08 19:26 G	10268562.06	10268562.31	10268562.57	0.0088	0.0012 *
Earth	23403-04-11 06:00 G	10268929.50	10268929.75	10268930.01	0.0088	0.0008
Moon	23403-04-11 09:50 G	10268929.65	10268929.91	10268930.17	0.0088	0.0004 *
Mars	23404-01-24 13:12 G	10269217.91	10269218.05	10269218.25	0.0088	0.0076
Moon	23404-04-12 13:55 G	10269296.84	10269297.08	10269297.34	0.0088	0.0006
Earth	23404-04-12 17:02 G	10269296.95	10269297.21	10269297.47	0.0088	0.0003 *
Earth	23405-04-15 03:36 G	10269664.39	10269664.65	10269664.91	0.0088	0.0001
Moon	23405-04-15 05:31 G	10269664.47	10269664.73	10269665.00	0.0088	0.0004 *
Mars	23405-12-21 00:00 G	10269914.15	10269914.50	10269914.84	0.0088	0.0007
Moon	23406-04-17 13:26 G	10270031.81	10270032.06	10270032.31	0.0088	0.0003
Earth	23406-04-17 14:24 G	10270031.85	10270032.10	10270032.36	0.0088	0.0006 *
Moon	23407-04-20 00:43 G	10270399.27	10270399.53	10270399.80	0.0088	0.0012
Earth	23407-04-20 01:12 G	10270399.30	10270399.55	10270399.82	0.0088	0.0010 *
Earth	23408-04-21 12:14 G	10270766.76	10270767.01	10270767.27	0.0088	0.0014
Moon	23408-04-21 13:55 G	10270766.84	10270767.08	10270767.33	0.0088	0.0012 *
Moon	23409-04-23 20:38 G	10271134.12	10271134.36	10271134.63	0.0088	0.0022
Earth	23409-04-23 23:31 G	10271134.23	10271134.48	10271134.73	0.0088	0.0019 *

Earth	23410-04-26 10:04 G	10271501.68	10271501.92	10271502.18	0.0088	0.0023
Moon	23410-04-26 13:40 G	10271501.83	10271502.07	10271502.32	0.0088	0.0020 *
Moon	23411-04-28 17:31 G	10271869.01	10271869.23	10271869.49	0.0088	0.0031
Earth	23411-04-28 21:07 G	10271869.15	10271869.38	10271869.64	0.0088	0.0027 *
Earth	23412-04-30 08:24 G	10272236.61	10272236.85	10272237.09	0.0088	0.0032
Moon	23412-04-30 11:31 G	10272236.75	10272236.98	10272237.25	0.0088	0.0028 *
Moon	23413-05-02 16:19 G	10272603.97	10272604.18	10272604.42	0.0088	0.0039
Earth	23413-05-02 19:26 G	10272604.07	10272604.31	10272604.54	0.0088	0.0036 *
Earth	23414-05-05 06:00 G	10272971.54	10272971.75	10272972.00	0.0088	0.0040
Moon	23414-05-05 08:09 G	10272971.60	10272971.84	10272972.09	0.0088	0.0037 *
Moon	23415-05-07 16:33 G	10273338.99	10273339.19	10273339.41	0.0088	0.0048
Earth	23415-05-07 17:02 G	10273339.01	10273339.21	10273339.46	0.0088	0.0045 *
Moon	23416-05-09 03:21 G	10273706.43	10273706.64	10273706.89	0.0088	0.0045
Earth	23416-05-09 04:19 G	10273706.48	10273706.68	10273706.91	0.0088	0.0049 *
Earth	23417-05-11 15:36 G	10274073.96	10274074.15	10274074.38	0.0088	0.0052
Moon	23417-05-11 17:31 G	10274074.05	10274074.23	10274074.44	0.0088	0.0055 *
Moon	23418-05-14 00:14 G	10274441.32	10274441.51	10274441.74	0.0088	0.0052
Earth	23418-05-14 02:52 G	10274441.44	10274441.62	10274441.84	0.0088	0.0056 *
Earth	23419-05-16 14:09 G	10274808.93	10274809.09	10274809.30	0.0088	0.0060
Moon	23419-05-16 18:00 G	10274809.09	10274809.25	10274809.44	0.0088	0.0064 *
Moon	23420-05-17 22:19 G	10275176.27	10275176.43	10275176.64	0.0088	0.0061
Earth	23420-05-18 02:09 G	10275176.42	10275176.59	10275176.78	0.0088	0.0064 *
Earth	23421-05-20 13:12 G	10275543.91	10275544.05	10275544.24	0.0088	0.0068
Moon	23421-05-20 17:02 G	10275544.07	10275544.21	10275544.37	0.0088	0.0072 *
Moon	23422-05-22 22:33 G	10275911.30	10275911.44	10275911.62	0.0088	0.0068
Earth	23422-05-23 00:43 G	10275911.41	10275911.53	10275911.72	0.0088	0.0072 *
Earth	23423-05-25 12:28 G	10276278.91	10276279.02	10276279.18	0.0088	0.0075
Moon	23423-05-25 14:09 G	10276278.99	10276279.09	10276279.24	0.0088	0.0079 *
Moon	23424-05-26 23:16 G	10276646.36	10276646.47	10276646.63	0.0088	0.0075
Earth	23424-05-27 00:43 G	10276646.41	10276646.53	10276646.65	0.0088	0.0078 *

Moon	23425-05-29 11:02 G	10277013.90	10277013.96	10277014.05	0.0089	0.0085
Earth	23425-05-29 11:45 G	10277013.92	10277013.99	10277014.12	0.0089	0.0082 *
Earth	23426-05-31 23:31 G	10277381.43	10277381.48	10277381.58	0.0089	0.0085
Moon	23426-06-01 01:40 G	10277381.48	10277381.57	10277381.68	0.0089	0.0081 *
Earth	23427-06-03 11:16 G	10277748.96	10277748.97	10277749.03	0.0089	0.0088
Moon	23428-06-05 02:24 G	10278116.58	10278116.60	10278116.69	0.0089	0.0087
Venus	23434-03-05 03:07 G	10280215.53	10280215.63	10280215.74	0.0089	0.0077
Venus	23434-10-16 15:50 G	10280441.01	10280441.16	10280441.35	0.0089	0.0058
Venus	23435-05-30 05:16 G	10280666.53	10280666.72	10280666.93	0.0089	0.0038
Venus	23436-01-10 18:28 G	10280892.06	10280892.27	10280892.49	0.0089	0.0018
Venus	23436-08-23 07:40 G	10281117.60	10281117.82	10281118.04	0.0089	0.0002
Venus	23437-04-05 20:38 G	10281343.16	10281343.36	10281343.59	0.0089	0.0022
Venus	23437-11-17 09:50 G	10281568.73	10281568.91	10281569.12	0.0089	0.0041
Venus	23438-06-30 22:48 G	10281794.31	10281794.45	10281794.62	0.0089	0.0061
Venus	23439-02-11 11:31 G	10282019.92	10282019.98	10282020.10	0.0089	0.0081
Mercury	23445-01-13 10:19 G	10284182.91	10284182.93	10284182.99	0.0089	0.0087
Mercury	23445-04-11 12:57 G	10284270.98	10284271.04	10284271.15	0.0089	0.0079
Mercury	23445-07-08 15:50 G	10284359.07	10284359.16	10284359.28	0.0089	0.0069
Mercury	23445-10-04 18:57 G	10284447.16	10284447.29	10284447.41	0.0089	0.0060
Mercury	23445-12-31 21:36 G	10284535.26	10284535.40	10284535.54	0.0089	0.0051
Mercury	23446-03-30 00:00 G	10284623.36	10284623.50	10284623.66	0.0089	0.0042
Mercury	23446-06-26 02:38 G	10284711.46	10284711.61	10284711.78	0.0089	0.0033
Mercury	23446-09-22 05:16 G	10284799.57	10284799.72	10284799.90	0.0089	0.0025
Mercury	23446-12-19 08:09 G	10284887.67	10284887.84	10284888.01	0.0089	0.0015
Mercury	23447-03-17 10:48 G	10284975.78	10284975.95	10284976.12	0.0089	0.0006
Mercury	23447-06-13 13:26 G	10285063.89	10285064.06	10285064.23	0.0089	0.0003
Mercury	23447-09-09 16:04 G	10285152.00	10285152.17	10285152.33	0.0089	0.0012
Mercury	23447-12-06 18:28 G	10285240.11	10285240.27	10285240.44	0.0089	0.0020
Mercury	23448-03-03 20:52 G	10285328.22	10285328.37	10285328.54	0.0089	0.0030
Mercury	23448-05-30 23:45 G	10285416.34	10285416.49	10285416.64	0.0089	0.0038

Mercury	23448-08-27 01:55 G	10285504.45	10285504.58	10285504.74	0.0089	0.0047
Mercury	23448-11-23 04:19 G	10285592.57	10285592.68	10285592.83	0.0089	0.0056
Mercury	23449-02-19 07:12 G	10285680.69	10285680.80	10285680.92	0.0089	0.0063
Mercury	23449-05-18 09:21 G	10285768.81	10285768.89	10285769.00	0.0089	0.0072
Mercury	23449-08-14 12:00 G	10285856.94	10285857.00	10285857.08	0.0089	0.0081
Mercury	23449-11-10 14:24 G	10285945.10	10285945.10	10285945.13	0.0089	0.0089
Moon	23464-08-26 03:36 G	10291347.61	10291347.65	10291347.72	0.0090	0.0087
Moon	23465-08-28 10:19 G	10291714.91	10291714.93	10291714.98	0.0090	0.0089
Earth	23465-08-28 13:26 G	10291715.02	10291715.06	10291715.15	0.0090	0.0087
Earth	23466-08-31 02:24 G	10292082.54	10292082.60	10292082.72	0.0090	0.0084
Moon	23466-08-31 06:43 G	10292082.68	10292082.78	10292082.90	0.0090	0.0081 *
Moon	23467-09-02 12:28 G	10292449.95	10292450.02	10292450.14	0.0090	0.0083
Earth	23467-09-02 15:50 G	10292450.06	10292450.16	10292450.29	0.0090	0.0080 *
Earth	23468-09-04 04:33 G	10292817.59	10292817.69	10292817.85	0.0090	0.0077
Moon	23468-09-04 07:26 G	10292817.70	10292817.81	10292817.98	0.0090	0.0076 *
Moon	23469-09-06 16:33 G	10293185.07	10293185.19	10293185.34	0.0090	0.0075
Earth	23469-09-06 18:14 G	10293185.12	10293185.26	10293185.42	0.0090	0.0073 *
Earth	23470-09-09 06:57 G	10293552.66	10293552.79	10293552.98	0.0090	0.0070
Moon	23470-09-09 07:26 G	10293552.66	10293552.81	10293553.01	0.0090	0.0068 *
Earth	23471-09-11 20:24 G	10293920.20	10293920.35	10293920.55	0.0090	0.0066
Moon	23471-09-11 20:38 G	10293920.22	10293920.36	10293920.55	0.0090	0.0067 *
Moon	23472-09-13 07:40 G	10294287.64	10294287.82	10294288.03	0.0090	0.0060
Earth	23472-09-13 09:21 G	10294287.73	10294287.89	10294288.11	0.0090	0.0062 *
Earth	23473-09-15 22:33 G	10294655.27	10294655.44	10294655.66	0.0090	0.0058
Moon	23473-09-16 01:40 G	10294655.39	10294655.57	10294655.77	0.0090	0.0059 *
Moon	23474-09-18 08:38 G	10295022.67	10295022.86	10295023.09	0.0090	0.0053
Earth	23474-09-18 11:45 G	10295022.81	10295022.99	10295023.22	0.0090	0.0054 *
Earth	23475-09-21 00:57 G	10295390.33	10295390.54	10295390.77	0.0090	0.0049
Moon	23475-09-21 04:33 G	10295390.49	10295390.69	10295390.92	0.0090	0.0050 *
Moon	23476-09-22 10:48 G	10295757.74	10295757.95	10295758.18	0.0089	0.0044

Earth	23476-09-22 13:55 G	10295757.87	10295758.08	10295758.32	0.0089	0.0045	*
Earth	23477-09-25 02:38 G	10296125.40	10296125.61	10296125.86	0.0089	0.0041	
Moon	23477-09-25 06:00 G	10296125.53	10296125.75	10296126.00	0.0089	0.0040	*
Moon	23478-09-27 13:55 G	10296492.86	10296493.08	10296493.32	0.0089	0.0036	
Earth	23478-09-27 15:50 G	10296492.93	10296493.16	10296493.41	0.0089	0.0036	*
Earth	23479-09-30 04:33 G	10296860.46	10296860.69	10296860.95	0.0089	0.0032	
Moon	23479-09-30 05:45 G	10296860.49	10296860.74	10296860.99	0.0089	0.0031	*
Earth	23480-10-01 17:31 G	10297227.99	10297228.23	10297228.48	0.0089	0.0027	
Moon	23480-10-01 17:31 G	10297228.00	10297228.23	10297228.47	0.0089	0.0027	*
Moon	23481-10-04 04:48 G	10297595.45	10297595.70	10297595.96	0.0089	0.0022	
Earth	23481-10-04 06:14 G	10297595.53	10297595.76	10297596.03	0.0089	0.0023	*
Earth	23482-10-06 19:12 G	10297963.06	10297963.30	10297963.57	0.0089	0.0018	
Moon	23482-10-06 21:50 G	10297963.17	10297963.41	10297963.66	0.0089	0.0018	*
Moon	23483-10-09 05:02 G	10298330.46	10298330.71	10298330.98	0.0089	0.0012	
Earth	23483-10-09 08:24 G	10298330.59	10298330.85	10298331.10	0.0089	0.0013	*
Earth	23484-10-10 20:52 G	10298698.12	10298698.37	10298698.64	0.0089	0.0009	
Moon	23484-10-11 00:43 G	10298698.28	10298698.53	10298698.79	0.0089	0.0009	*
Moon	23485-10-13 06:43 G	10299065.52	10299065.78	10299066.04	0.0089	0.0002	
Earth	23485-10-13 10:04 G	10299065.66	10299065.92	10299066.18	0.0089	0.0003	*
Mars	23485-11-01 07:12 G	10299084.59	10299084.80	10299085.03	0.0089	0.0056	
Earth	23486-10-15 22:33 G	10299433.18	10299433.44	10299433.70	0.0089	0.0001	
Moon	23486-10-16 01:55 G	10299433.32	10299433.58	10299433.84	0.0089	0.0001	*
Mars	23487-09-25 19:55 G	10299778.06	10299778.33	10299778.62	0.0089	0.0015	
Moon	23487-10-18 09:07 G	10299800.63	10299800.88	10299801.13	0.0089	0.0007	
Earth	23487-10-18 11:02 G	10299800.71	10299800.96	10299801.23	0.0089	0.0006	*
Earth	23488-10-19 23:31 G	10300168.23	10300168.48	10300168.74	0.0089	0.0011	
Moon	23488-10-20 00:43 G	10300168.27	10300168.53	10300168.80	0.0089	0.0009	*
Mars	23489-08-19 09:36 G	10300471.84	10300471.90	10300472.00	0.0089	0.0086	
Moon	23489-10-22 11:45 G	10300535.75	10300535.99	10300536.24	0.0089	0.0018	
Earth	23489-10-22 12:00 G	10300535.75	10300536.00	10300536.26	0.0089	0.0015	*

Moon	23490-10-24 22:48 G	10300903.20	10300903.45	10300903.72	0.0089	0.0018
Earth	23490-10-25 00:14 G	10300903.27	10300903.51	10300903.77	0.0089	0.0020 *
Earth	23491-10-27 12:28 G	10301270.78	10301271.02	10301271.28	0.0089	0.0025
Moon	23491-10-27 14:38 G	10301270.88	10301271.11	10301271.36	0.0089	0.0027 *
Moon	23492-10-28 21:50 G	10301638.17	10301638.41	10301638.67	0.0089	0.0027
Earth	23492-10-29 00:43 G	10301638.30	10301638.53	10301638.79	0.0089	0.0029 *
Earth	23493-10-31 13:12 G	10302005.82	10302006.05	10302006.30	0.0089	0.0033
Moon	23493-10-31 16:48 G	10302005.98	10302006.20	10302006.45	0.0089	0.0036 *
Moon	23494-11-02 22:04 G	10302373.19	10302373.42	10302373.66	0.0089	0.0035
Earth	23494-11-03 01:12 G	10302373.34	10302373.55	10302373.80	0.0089	0.0038 *
Earth	23495-11-05 13:26 G	10302740.85	10302741.06	10302741.30	0.0089	0.0042
Moon	23495-11-05 17:02 G	10302741.00	10302741.21	10302741.44	0.0089	0.0045 *
Moon	23496-11-06 23:45 G	10303108.29	10303108.49	10303108.72	0.0089	0.0044
Earth	23496-11-07 01:55 G	10303108.37	10303108.58	10303108.81	0.0089	0.0047 *
Earth	23497-11-09 14:24 G	10303475.89	10303476.10	10303476.31	0.0089	0.0051
Moon	23497-11-09 15:21 G	10303475.94	10303476.14	10303476.37	0.0089	0.0054 *
Moon	23498-11-12 01:40 G	10303843.39	10303843.57	10303843.80	0.0089	0.0052
Earth	23498-11-12 01:55 G	10303843.40	10303843.58	10303843.81	0.0089	0.0055 *
Moon	23499-11-14 12:43 G	10304210.85	10304211.03	10304211.23	0.0089	0.0061
Earth	23499-11-14 13:55 G	10304210.91	10304211.08	10304211.30	0.0089	0.0059 *
Earth	23500-11-17 01:55 G	10304578.42	10304578.58	10304578.78	0.0089	0.0063
Moon	23500-11-17 04:04 G	10304578.50	10304578.67	10304578.87	0.0089	0.0060 *
Moon	23501-11-19 10:48 G	10304945.81	10304945.95	10304946.13	0.0089	0.0070
Earth	23501-11-19 13:40 G	10304945.93	10304946.07	10304946.27	0.0089	0.0067 *
Earth	23502-11-22 01:40 G	10305313.42	10305313.57	10305313.73	0.0089	0.0070
Moon	23502-11-22 05:16 G	10305313.56	10305313.72	10305313.90	0.0089	0.0067 *
Moon	23503-11-24 10:04 G	10305680.80	10305680.92	10305681.05	0.0089	0.0077
Earth	23503-11-24 13:12 G	10305680.93	10305681.05	10305681.21	0.0089	0.0074 *
Earth	23504-11-26 00:28 G	10306048.43	10306048.52	10306048.68	0.0089	0.0078
Moon	23504-11-26 04:33 G	10306048.55	10306048.69	10306048.84	0.0089	0.0073 *

Moon	23505-11-28 10:48 G	10306415.88	10306415.95	10306416.03	0.0089	0.0084
Earth	23505-11-28 12:28 G	10306415.94	10306416.02	10306416.15	0.0089	0.0081 *
Earth	23506-12-01 00:14 G	10306783.45	10306783.51	10306783.60	0.0089	0.0084
Moon	23506-12-01 01:12 G	10306783.47	10306783.55	10306783.70	0.0089	0.0081 *
Earth	23507-12-03 12:00 G	10307150.96	10307151.00	10307151.05	0.0089	0.0087
Moon	23508-12-04 21:36 G	10307518.38	10307518.40	10307518.48	0.0089	0.0087
Venus	23515-01-27 01:26 G	10309762.56	10309762.56	10309762.57	0.0089	0.0088
Venus	23515-09-09 13:55 G	10309987.97	10309988.08	10309988.24	0.0088	0.0070
Venus	23516-04-22 03:07 G	10310213.46	10310213.63	10310213.82	0.0088	0.0050
Venus	23516-12-03 15:50 G	10310438.97	10310439.16	10310439.38	0.0088	0.0031
Venus	23517-07-17 04:48 G	10310664.49	10310664.70	10310664.92	0.0088	0.0011
Venus	23518-02-27 17:31 G	10310890.02	10310890.23	10310890.46	0.0088	0.0009
Venus	23518-10-11 06:43 G	10311115.57	10311115.78	10311115.99	0.0088	0.0028
Venus	23519-05-24 18:57 G	10311341.13	10311341.29	10311341.50	0.0088	0.0048
Venus	23520-01-05 07:55 G	10311566.70	10311566.83	10311566.99	0.0088	0.0067
Venus	23520-08-17 20:52 G	10311792.33	10311792.37	10311792.42	0.0088	0.0086
Mercury	23526-01-20 06:43 G	10313773.76	10313773.78	10313773.81	0.0088	0.0087
Mercury	23526-04-18 08:24 G	10313861.79	10313861.85	10313861.91	0.0088	0.0079
Mercury	23526-07-15 10:04 G	10313949.84	10313949.92	10313950.01	0.0088	0.0072
Mercury	23526-10-11 11:45 G	10314037.90	10314037.99	10314038.09	0.0088	0.0065
Mercury	23527-01-07 13:12 G	10314125.96	10314126.05	10314126.17	0.0088	0.0059
Mercury	23527-04-05 14:52 G	10314214.02	10314214.12	10314214.25	0.0088	0.0052
Mercury	23527-07-02 17:02 G	10314302.08	10314302.21	10314302.33	0.0088	0.0044
Mercury	23527-09-28 18:28 G	10314390.15	10314390.27	10314390.41	0.0088	0.0037
Mercury	23527-12-25 20:09 G	10314478.21	10314478.34	10314478.49	0.0088	0.0030
Mercury	23528-03-22 21:50 G	10314566.28	10314566.41	10314566.56	0.0088	0.0023
Mercury	23528-06-18 23:45 G	10314654.35	10314654.49	10314654.64	0.0088	0.0014
Mercury	23528-09-15 01:40 G	10314742.42	10314742.57	10314742.71	0.0088	0.0007
Mercury	23528-12-12 03:21 G	10314830.49	10314830.64	10314830.79	0.0088	0.0001
Mercury	23529-03-10 05:02 G	10314918.56	10314918.71	10314918.86	0.0088	0.0008

Mercury	23529-06-06 06:43 G	10315006.64	10315006.78	10315006.93	0.0088	0.0015
Mercury	23529-09-02 08:24 G	10315094.71	10315094.85	10315095.00	0.0088	0.0023
Mercury	23529-11-29 10:19 G	10315182.79	10315182.93	10315183.07	0.0088	0.0030
Mercury	23530-02-25 12:00 G	10315270.87	10315271.00	10315271.14	0.0088	0.0038
Mercury	23530-05-24 13:40 G	10315358.95	10315359.07	10315359.21	0.0088	0.0045
Mercury	23530-08-20 15:21 G	10315447.04	10315447.14	10315447.27	0.0088	0.0053
Mercury	23530-11-16 17:16 G	10315535.12	10315535.22	10315535.34	0.0088	0.0060
Mercury	23531-02-12 18:57 G	10315623.21	10315623.29	10315623.40	0.0088	0.0068
Mercury	23531-05-11 21:07 G	10315711.31	10315711.38	10315711.46	0.0088	0.0075
Mercury	23531-08-07 22:48 G	10315799.41	10315799.45	10315799.51	0.0088	0.0083
Moon	23547-02-26 17:31 G	10321481.17	10321481.23	10321481.33	0.0088	0.0083
Earth	23547-02-26 21:21 G	10321481.39	10321481.39	10321481.42	0.0088	0.0088
Jupiter	23547-12-29 14:52 G	10321786.70	10321787.12	10321787.64	0.0088	0.0050
Earth	23548-02-29 07:12 G	10321848.77	10321848.80	10321848.90	0.0088	0.0085
Moon	23549-03-02 15:21 G	10322216.02	10322216.14	10322216.26	0.0088	0.0077
Earth	23549-03-02 17:45 G	10322216.17	10322216.24	10322216.36	0.0088	0.0082 *
Earth	23550-03-05 04:19 G	10322583.58	10322583.68	10322583.81	0.0088	0.0078
Moon	23550-03-05 06:14 G	10322583.70	10322583.76	10322583.88	0.0088	0.0083 *
Moon	23551-03-07 13:55 G	10322950.95	10322951.08	10322951.24	0.0088	0.0071
Earth	23551-03-07 14:24 G	10322950.99	10322951.10	10322951.26	0.0088	0.0075 *
Earth	23552-03-09 00:57 G	10323318.40	10323318.54	10323318.70	0.0088	0.0071
Moon	23552-03-09 00:43 G	10323318.41	10323318.53	10323318.68	0.0088	0.0075 *
Earth	23553-03-11 11:02 G	10323685.82	10323685.96	10323686.14	0.0088	0.0068
Moon	23553-03-11 12:57 G	10323685.87	10323686.04	10323686.22	0.0088	0.0063 *
Moon	23554-03-13 18:28 G	10324053.12	10324053.27	10324053.45	0.0088	0.0068
Earth	23554-03-13 21:07 G	10324053.23	10324053.38	10324053.58	0.0088	0.0064 *
Earth	23555-03-16 07:40 G	10324420.64	10324420.82	10324421.02	0.0088	0.0060
Moon	23555-03-16 10:33 G	10324420.77	10324420.94	10324421.15	0.0088	0.0056 *
Moon	23556-03-17 14:09 G	10324787.92	10324788.09	10324788.29	0.0088	0.0061
Earth	23556-03-17 18:00 G	10324788.07	10324788.25	10324788.46	0.0088	0.0056 *



Earth	23557-03-20 04:19 G	10325155.48	10325155.68	10325155.89	0.0088	0.0052
Moon	23557-03-20 07:12 G	10325155.60	10325155.80	10325156.04	0.0088	0.0048 *
Moon	23558-03-22 12:00 G	10325522.80	10325523.00	10325523.20	0.0088	0.0052
Earth	23558-03-22 14:38 G	10325522.90	10325523.11	10325523.33	0.0088	0.0048 *
Earth	23559-03-25 00:57 G	10325890.33	10325890.54	10325890.77	0.0088	0.0044
Moon	23559-03-25 02:38 G	10325890.39	10325890.61	10325890.87	0.0088	0.0040 *
Moon	23560-03-26 11:16 G	10326257.76	10326257.97	10326258.19	0.0088	0.0044
Earth	23560-03-26 11:16 G	10326257.76	10326257.97	10326258.22	0.0088	0.0040 *
Moon	23561-03-28 21:21 G	10326625.15	10326625.39	10326625.65	0.0088	0.0032
Earth	23561-03-28 21:50 G	10326625.19	10326625.41	10326625.66	0.0088	0.0036 *
Earth	23562-03-31 08:38 G	10326992.62	10326992.86	10326993.10	0.0088	0.0031
Moon	23562-03-31 10:19 G	10326992.71	10326992.93	10326993.17	0.0088	0.0036 *
Moon	23563-04-02 15:50 G	10327359.92	10327360.16	10327360.43	0.0088	0.0023
Earth	23563-04-02 18:57 G	10327360.06	10327360.29	10327360.55	0.0088	0.0027 *
Earth	23564-04-04 05:16 G	10327727.49	10327727.72	10327727.99	0.0088	0.0023
Moon	23564-04-04 08:38 G	10327727.63	10327727.86	10327728.12	0.0088	0.0027 *
Moon	23565-04-06 12:14 G	10328094.76	10328095.01	10328095.27	0.0088	0.0014
Earth	23565-04-06 16:04 G	10328094.92	10328095.17	10328095.43	0.0088	0.0018 *
Earth	23566-04-09 02:24 G	10328462.35	10328462.60	10328462.86	0.0088	0.0014
Moon	23566-04-09 05:31 G	10328462.48	10328462.73	10328462.99	0.0088	0.0018 *
Moon	23567-04-11 10:33 G	10328829.69	10328829.94	10328830.20	0.0088	0.0006
Earth	23567-04-11 13:12 G	10328829.80	10328830.05	10328830.31	0.0088	0.0009 *
Earth	23568-04-12 23:45 G	10329197.23	10329197.49	10329197.75	0.0088	0.0005
Moon	23568-04-13 01:12 G	10329197.29	10329197.55	10329197.82	0.0088	0.0009 *
Earth	23569-04-15 10:19 G	10329564.67	10329564.93	10329565.19	0.0088	0.0001
Moon	23569-04-15 10:33 G	10329564.69	10329564.94	10329565.19	0.0088	0.0004 *
Mars	23569-08-04 00:00 G	10329675.19	10329675.50	10329675.85	0.0088	0.0026
Moon	23570-04-17 20:09 G	10329932.07	10329932.34	10329932.61	0.0088	0.0001
Earth	23570-04-17 20:52 G	10329932.12	10329932.37	10329932.63	0.0088	0.0005 *
Earth	23571-04-20 07:40 G	10330299.57	10330299.82	10330300.08	0.0088	0.0009

Moon	23571-04-20 10:04 G	10330299.67	10330299.92	10330300.17	0.0088	0.0013	*
Mars	23571-07-01 09:21 G	10330371.66	10330371.89	10330372.18	0.0088	0.0057	
Moon	23572-04-21 15:21 G	10330666.88	10330667.14	10330667.41	0.0088	0.0009	
Earth	23572-04-21 18:28 G	10330667.03	10330667.27	10330667.54	0.0088	0.0014	*
Earth	23573-04-24 05:16 G	10331034.48	10331034.72	10331034.98	0.0088	0.0018	
Moon	23573-04-24 08:38 G	10331034.62	10331034.86	10331035.12	0.0088	0.0022	*
Moon	23574-04-26 12:43 G	10331401.79	10331402.03	10331402.29	0.0088	0.0018	
Earth	23574-04-26 16:33 G	10331401.94	10331402.19	10331402.44	0.0088	0.0023	*
Earth	23575-04-29 03:21 G	10331769.40	10331769.64	10331769.89	0.0088	0.0027	
Moon	23575-04-29 06:00 G	10331769.53	10331769.75	10331770.02	0.0088	0.0031	*
Moon	23576-04-30 12:00 G	10332136.77	10332137.00	10332137.24	0.0088	0.0028	
Earth	23576-04-30 14:24 G	10332136.87	10332137.10	10332137.35	0.0088	0.0032	*
Earth	23577-05-03 01:12 G	10332504.33	10332504.55	10332504.80	0.0088	0.0036	
Moon	23577-05-03 02:38 G	10332504.38	10332504.61	10332504.85	0.0088	0.0039	*
Earth	23578-05-05 12:14 G	10332871.80	10332872.01	10332872.26	0.0088	0.0041	
Moon	23578-05-05 12:28 G	10332871.82	10332872.02	10332872.27	0.0088	0.0038	*
Moon	23579-05-07 22:04 G	10333239.22	10333239.42	10333239.67	0.0088	0.0048	
Earth	23579-05-07 23:45 G	10333239.27	10333239.49	10333239.71	0.0088	0.0045	*
Earth	23580-05-09 10:19 G	10333606.74	10333606.93	10333607.17	0.0088	0.0050	
Moon	23580-05-09 13:12 G	10333606.84	10333607.05	10333607.28	0.0088	0.0045	*
Moon	23581-05-11 18:00 G	10333974.08	10333974.25	10333974.48	0.0088	0.0058	
Earth	23581-05-11 21:36 G	10333974.21	10333974.40	10333974.62	0.0088	0.0053	*
Earth	23582-05-14 08:52 G	10334341.69	10334341.87	10334342.08	0.0088	0.0057	
Moon	23582-05-14 12:14 G	10334341.83	10334342.01	10334342.23	0.0088	0.0055	*
Moon	23583-05-16 16:33 G	10334709.04	10334709.19	10334709.39	0.0088	0.0065	
Earth	23583-05-16 20:09 G	10334709.18	10334709.34	10334709.55	0.0088	0.0062	*
Earth	23584-05-18 07:26 G	10335076.66	10335076.81	10335077.01	0.0088	0.0066	
Moon	23584-05-18 10:04 G	10335076.77	10335076.92	10335077.14	0.0088	0.0063	*
Moon	23585-05-20 17:16 G	10335444.08	10335444.22	10335444.37	0.0088	0.0072	
Earth	23585-05-20 18:57 G	10335444.16	10335444.29	10335444.48	0.0088	0.0070	*

Earth	23586-05-23 06:28 G	10335811.66	10335811.77	10335811.95	0.0088	0.0074
Moon	23586-05-23 07:55 G	10335811.68	10335811.83	10335812.01	0.0088	0.0070 *
Earth	23587-05-25 18:28 G	10336179.16	10336179.27	10336179.42	0.0088	0.0077
Moon	23587-05-25 19:12 G	10336179.20	10336179.30	10336179.41	0.0088	0.0080 *
Moon	23588-05-27 04:48 G	10336546.60	10336546.70	10336546.85	0.0088	0.0078
Earth	23588-05-27 06:00 G	10336546.67	10336546.75	10336546.88	0.0088	0.0081 *
Earth	23589-05-29 17:45 G	10336914.18	10336914.24	10336914.34	0.0088	0.0084
Moon	23589-05-29 20:38 G	10336914.33	10336914.36	10336914.41	0.0088	0.0087 *
Moon	23590-06-01 02:38 G	10337281.54	10337281.61	10337281.69	0.0089	0.0084
Earth	23590-06-01 05:16 G	10337281.71	10337281.72	10337281.79	0.0089	0.0088
Venus	23598-06-07 10:48 G	10340209.94	10340209.95	10340210.01	0.0089	0.0088
Venus	23599-01-19 00:00 G	10340435.38	10340435.50	10340435.66	0.0089	0.0068
Venus	23599-09-01 13:26 G	10340660.89	10340661.06	10340661.25	0.0089	0.0048
Venus	23600-04-14 02:38 G	10340886.42	10340886.61	10340886.83	0.0089	0.0029
Venus	23600-11-25 16:04 G	10341111.95	10341112.17	10341112.39	0.0089	0.0009
Venus	23601-07-09 05:16 G	10341337.50	10341337.72	10341337.94	0.0089	0.0011
Venus	23602-02-19 18:14 G	10341563.06	10341563.26	10341563.47	0.0089	0.0031
Venus	23602-10-03 06:57 G	10341788.63	10341788.79	10341788.99	0.0089	0.0051
Venus	23603-05-16 20:38 G	10342014.23	10342014.36	10342014.50	0.0089	0.0070
Mercury	23609-10-11 08:24 G	10344353.82	10344353.85	10344353.91	0.0089	0.0086
Mercury	23610-01-07 11:02 G	10344441.89	10344441.96	10344442.06	0.0089	0.0077
Mercury	23610-04-05 14:09 G	10344529.98	10344530.09	10344530.20	0.0089	0.0068
Mercury	23610-07-02 16:48 G	10344618.08	10344618.20	10344618.33	0.0089	0.0059
Mercury	23610-09-28 19:26 G	10344706.17	10344706.31	10344706.46	0.0089	0.0050
Mercury	23610-12-25 22:19 G	10344794.28	10344794.43	10344794.58	0.0089	0.0041
Mercury	23611-03-24 00:57 G	10344882.38	10344882.54	10344882.70	0.0089	0.0032
Mercury	23611-06-20 03:21 G	10344970.48	10344970.64	10344970.81	0.0089	0.0023
Mercury	23611-09-16 06:00 G	10345058.59	10345058.75	10345058.93	0.0089	0.0014
Mercury	23611-12-13 08:52 G	10345146.70	10345146.87	10345147.04	0.0089	0.0005
Mercury	23612-03-10 11:31 G	10345234.81	10345234.98	10345235.15	0.0089	0.0004

Mercury	23612-06-06 13:55 G	10345322.92	10345323.08	10345323.25	0.0089	0.0013
Mercury	23612-09-02 16:33 G	10345411.03	10345411.19	10345411.36	0.0089	0.0022
Mercury	23612-11-29 19:12 G	10345499.14	10345499.30	10345499.46	0.0089	0.0030
Mercury	23613-02-25 21:36 G	10345587.26	10345587.40	10345587.56	0.0089	0.0039
Mercury	23613-05-25 00:14 G	10345675.37	10345675.51	10345675.66	0.0089	0.0048
Mercury	23613-08-21 02:38 G	10345763.49	10345763.61	10345763.75	0.0089	0.0056
Mercury	23613-11-17 05:02 G	10345851.61	10345851.71	10345851.84	0.0089	0.0065
Mercury	23614-02-13 07:40 G	10345939.74	10345939.82	10345939.92	0.0089	0.0073
Mercury	23614-05-12 10:04 G	10346027.87	10346027.92	10346028.00	0.0089	0.0082
Moon	23629-08-28 22:04 G	10351615.38	10351615.42	10351615.48	0.0090	0.0088
Earth	23630-08-31 07:12 G	10351982.79	10351982.80	10351982.87	0.0090	0.0089
Earth	23631-09-02 20:24 G	10352350.29	10352350.35	10352350.45	0.0090	0.0085
Moon	23631-09-02 21:50 G	10352350.34	10352350.41	10352350.56	0.0090	0.0082 *
Moon	23632-09-04 08:38 G	10352717.80	10352717.86	10352717.95	0.0090	0.0085
Earth	23632-09-04 09:50 G	10352717.81	10352717.91	10352718.03	0.0090	0.0081 *
Moon	23633-09-06 22:19 G	10353085.30	10353085.43	10353085.61	0.0090	0.0074
Earth	23633-09-06 22:33 G	10353085.34	10353085.44	10353085.59	0.0090	0.0078 *
Earth	23634-09-09 11:31 G	10353452.86	10353452.98	10353453.16	0.0090	0.0074
Moon	23634-09-09 13:40 G	10353452.96	10353453.07	10353453.21	0.0090	0.0077 *
Moon	23635-09-11 22:19 G	10353820.28	10353820.43	10353820.64	0.0090	0.0066
Earth	23635-09-12 00:43 G	10353820.39	10353820.53	10353820.72	0.0090	0.0070 *
Earth	23636-09-13 13:40 G	10354187.93	10354188.07	10354188.28	0.0090	0.0066
Moon	23636-09-13 17:16 G	10354188.08	10354188.22	10354188.39	0.0090	0.0070 *
Moon	23637-09-15 23:31 G	10354555.31	10354555.48	10354555.71	0.0090	0.0058
Earth	23637-09-16 03:07 G	10354555.47	10354555.63	10354555.85	0.0090	0.0062 *
Earth	23638-09-18 16:33 G	10354923.00	10354923.19	10354923.40	0.0090	0.0057
Moon	23638-09-18 19:40 G	10354923.16	10354923.32	10354923.53	0.0090	0.0062 *
Moon	23639-09-21 02:38 G	10355290.40	10355290.61	10355290.83	0.0090	0.0048
Earth	23639-09-21 05:31 G	10355290.54	10355290.73	10355290.96	0.0090	0.0053 *
Earth	23640-09-22 18:43 G	10355658.07	10355658.28	10355658.51	0.0090	0.0048

Moon	23640-09-22 21:07 G	10355658.16	10355658.38	10355658.59	0.0090	0.0052	*
Moon	23641-09-25 06:14 G	10356025.55	10356025.76	10356026.00	0.0090	0.0039	
Earth	23641-09-25 07:40 G	10356025.61	10356025.82	10356026.06	0.0090	0.0044	*
Earth	23642-09-27 20:38 G	10356393.14	10356393.36	10356393.60	0.0090	0.0039	
Moon	23642-09-27 20:24 G	10356393.14	10356393.35	10356393.61	0.0090	0.0044	*
Earth	23643-09-30 09:07 G	10356760.66	10356760.88	10356761.14	0.0089	0.0035	
Moon	23643-09-30 11:02 G	10356760.72	10356760.96	10356761.19	0.0089	0.0030	*
Moon	23644-10-01 20:09 G	10357128.11	10357128.34	10357128.60	0.0089	0.0034	
Earth	23644-10-01 22:04 G	10357128.19	10357128.42	10357128.68	0.0089	0.0030	*
Earth	23645-10-04 11:02 G	10357495.72	10357495.96	10357496.22	0.0089	0.0025	
Moon	23645-10-04 14:24 G	10357495.85	10357496.10	10357496.35	0.0089	0.0020	*
Moon	23646-10-06 20:09 G	10357863.11	10357863.34	10357863.61	0.0089	0.0025	
Earth	23646-10-07 00:00 G	10357863.25	10357863.50	10357863.76	0.0089	0.0020	*
Earth	23647-10-09 12:28 G	10358230.78	10358231.02	10358231.29	0.0089	0.0016	
Moon	23647-10-09 16:19 G	10358230.93	10358231.18	10358231.44	0.0089	0.0010	*
Moon	23648-10-10 22:19 G	10358598.19	10358598.43	10358598.69	0.0089	0.0015	
Earth	23648-10-11 01:40 G	10358598.32	10358598.57	10358598.83	0.0089	0.0010	*
Mars	23649-06-17 15:36 G	10358848.08	10358848.15	10358848.28	0.0089	0.0084	
Earth	23649-10-13 14:38 G	10358965.85	10358966.11	10358966.37	0.0089	0.0005	
Moon	23649-10-13 17:02 G	10358965.94	10358966.21	10358966.47	0.0089	0.0001	*
Moon	23650-10-16 01:40 G	10359333.32	10359333.57	10359333.82	0.0089	0.0005	
Earth	23650-10-16 03:36 G	10359333.39	10359333.65	10359333.91	0.0089	0.0001	*
Mars	23651-05-12 05:31 G	10359541.46	10359541.73	10359542.02	0.0089	0.0014	
Earth	23651-10-18 16:04 G	10359700.92	10359701.17	10359701.43	0.0089	0.0005	
Moon	23651-10-18 16:19 G	10359700.92	10359701.18	10359701.45	0.0089	0.0010	*
Earth	23652-10-20 04:48 G	10360068.45	10360068.70	10360068.96	0.0089	0.0010	
Moon	23652-10-20 06:00 G	10360068.50	10360068.75	10360069.00	0.0089	0.0005	*
Mars	23653-04-04 18:00 G	10360235.05	10360235.25	10360235.49	0.0089	0.0058	
Moon	23653-10-22 15:50 G	10360435.90	10360436.16	10360436.42	0.0089	0.0018	
Earth	23653-10-22 17:31 G	10360435.98	10360436.23	10360436.49	0.0089	0.0014	*

Earth	23654-10-25 05:45 G	10360803.50	10360803.74	10360804.00	0.0089	0.0019
Moon	23654-10-25 08:52 G	10360803.62	10360803.87	10360804.12	0.0089	0.0014 *
Moon	23655-10-27 14:52 G	10361170.88	10361171.12	10361171.37	0.0089	0.0028
Earth	23655-10-27 18:28 G	10361171.02	10361171.27	10361171.52	0.0089	0.0024 *
Earth	23656-10-29 06:43 G	10361538.54	10361538.78	10361539.03	0.0089	0.0029
Moon	23656-10-29 10:19 G	10361538.69	10361538.93	10361539.18	0.0089	0.0024 *
Moon	23657-10-31 15:21 G	10361905.93	10361906.14	10361906.39	0.0089	0.0038
Earth	23657-10-31 18:57 G	10361906.06	10361906.29	10361906.54	0.0089	0.0033 *
Earth	23658-11-03 06:57 G	10362273.58	10362273.79	10362274.04	0.0089	0.0038
Moon	23658-11-03 09:36 G	10362273.67	10362273.90	10362274.16	0.0089	0.0034 *
Moon	23659-11-05 17:31 G	10362641.03	10362641.23	10362641.45	0.0089	0.0046
Earth	23659-11-05 19:26 G	10362641.09	10362641.31	10362641.55	0.0089	0.0043 *
Earth	23660-11-07 07:26 G	10363008.61	10363008.81	10363009.05	0.0089	0.0047
Moon	23660-11-07 07:40 G	10363008.61	10363008.82	10363009.08	0.0089	0.0044 *
Earth	23661-11-09 19:55 G	10363376.13	10363376.33	10363376.55	0.0089	0.0051
Moon	23661-11-09 20:38 G	10363376.18	10363376.36	10363376.57	0.0089	0.0056 *
Moon	23662-11-12 06:14 G	10363743.56	10363743.76	10363743.99	0.0089	0.0052
Earth	23662-11-12 07:40 G	10363743.65	10363743.82	10363744.05	0.0089	0.0056 *
Earth	23663-11-14 19:55 G	10364111.16	10364111.33	10364111.54	0.0089	0.0060
Moon	23663-11-14 23:02 G	10364111.30	10364111.46	10364111.65	0.0089	0.0064 *
Moon	23664-11-16 05:02 G	10364478.53	10364478.71	10364478.91	0.0089	0.0060
Earth	23664-11-16 08:24 G	10364478.69	10364478.85	10364479.04	0.0089	0.0064 *
Earth	23665-11-18 20:09 G	10364846.19	10364846.34	10364846.52	0.0089	0.0068
Moon	23665-11-18 23:31 G	10364846.36	10364846.48	10364846.66	0.0089	0.0072 *
Moon	23666-11-21 04:48 G	10365213.55	10365213.70	10365213.87	0.0089	0.0068
Earth	23666-11-21 08:09 G	10365213.71	10365213.84	10365214.00	0.0089	0.0072 *
Earth	23667-11-23 19:40 G	10365581.21	10365581.32	10365581.47	0.0089	0.0076
Moon	23667-11-23 22:33 G	10365581.33	10365581.44	10365581.57	0.0089	0.0079 *
Moon	23668-11-25 05:31 G	10365948.62	10365948.73	10365948.87	0.0089	0.0077
Earth	23668-11-25 07:26 G	10365948.72	10365948.81	10365948.94	0.0089	0.0080 *

Earth	23669-11-27 19:26 G	10366316.23	10366316.31	10366316.40	0.0089	0.0083
Moon	23669-11-27 19:26 G	10366316.28	10366316.31	10366316.39	0.0089	0.0087 *
Earth	23670-11-30 06:28 G	10366683.74	10366683.77	10366683.84	0.0089	0.0087
Moon	23670-11-30 07:12 G	10366683.75	10366683.80	10366683.90	0.0089	0.0084 *
Venus	23679-12-11 23:02 G	10369982.38	10369982.46	10369982.57	0.0088	0.0079
Venus	23680-07-24 11:45 G	10370207.84	10370207.99	10370208.17	0.0088	0.0059
Venus	23681-03-07 00:57 G	10370433.34	10370433.54	10370433.74	0.0088	0.0040
Venus	23681-10-18 13:40 G	10370658.86	10370659.07	10370659.29	0.0088	0.0021
Venus	23682-06-01 02:38 G	10370884.39	10370884.61	10370884.83	0.0088	0.0001
Venus	23683-01-12 15:07 G	10371109.93	10371110.13	10371110.36	0.0088	0.0019
Venus	23683-08-26 04:04 G	10371335.48	10371335.67	10371335.87	0.0088	0.0038
Venus	23684-04-07 16:48 G	10371561.04	10371561.20	10371561.38	0.0088	0.0057
Venus	23684-11-19 05:16 G	10371786.63	10371786.72	10371786.85	0.0088	0.0077
Mercury	23690-10-17 05:31 G	10373944.71	10373944.73	10373944.78	0.0088	0.0085
Mercury	23691-01-13 07:12 G	10374032.75	10374032.80	10374032.88	0.0088	0.0078
Mercury	23691-04-11 08:52 G	10374120.80	10374120.87	10374120.96	0.0088	0.0071
Mercury	23691-07-08 10:33 G	10374208.85	10374208.94	10374209.05	0.0088	0.0064
Mercury	23691-10-04 12:28 G	10374296.91	10374297.02	10374297.13	0.0088	0.0056
Mercury	23691-12-31 14:09 G	10374384.97	10374385.09	10374385.21	0.0088	0.0049
Mercury	23692-03-28 15:36 G	10374473.03	10374473.15	10374473.29	0.0088	0.0043
Mercury	23692-06-24 17:16 G	10374561.10	10374561.22	10374561.37	0.0088	0.0035
Mercury	23692-09-20 19:12 G	10374649.17	10374649.30	10374649.44	0.0088	0.0028
Mercury	23692-12-17 20:52 G	10374737.23	10374737.37	10374737.52	0.0088	0.0020
Mercury	23693-03-15 22:33 G	10374825.30	10374825.44	10374825.59	0.0088	0.0014
Mercury	23693-06-12 00:28 G	10374913.37	10374913.52	10374913.67	0.0088	0.0005
Mercury	23693-09-08 02:09 G	10375001.44	10375001.59	10375001.74	0.0088	0.0002
Mercury	23693-12-05 03:50 G	10375089.52	10375089.66	10375089.81	0.0088	0.0010
Mercury	23694-03-03 05:31 G	10375177.59	10375177.73	10375177.88	0.0088	0.0017
Mercury	23694-05-30 07:26 G	10375265.67	10375265.81	10375265.95	0.0088	0.0024
Mercury	23694-08-26 09:07 G	10375353.75	10375353.88	10375354.02	0.0088	0.0032

Mercury	23694-11-22 10:48 G	10375441.83	10375441.95	10375442.09	0.0088	0.0039
Mercury	23695-02-18 12:28 G	10375529.91	10375530.02	10375530.16	0.0088	0.0047
Mercury	23695-05-17 14:24 G	10375617.99	10375618.10	10375618.23	0.0088	0.0054
Mercury	23695-08-13 16:04 G	10375706.08	10375706.17	10375706.29	0.0088	0.0062
Mercury	23695-11-09 18:00 G	10375794.17	10375794.25	10375794.35	0.0088	0.0069
Mercury	23696-02-05 19:40 G	10375882.26	10375882.32	10375882.41	0.0088	0.0077
Mercury	23696-05-03 21:50 G	10375970.37	10375970.41	10375970.45	0.0088	0.0084
Earth	23713-03-03 00:43 G	10382116.50	10382116.53	10382116.60	0.0088	0.0086
Moon	23713-03-03 02:09 G	10382116.56	10382116.59	10382116.67	0.0088	0.0086 *
Moon	23714-03-05 10:19 G	10382483.88	10382483.93	10382484.04	0.0088	0.0083
Earth	23714-03-05 10:48 G	10382483.89	10382483.95	10382484.06	0.0088	0.0083 *
Moon	23715-03-07 20:09 G	10382851.23	10382851.34	10382851.47	0.0088	0.0078
Earth	23715-03-07 21:21 G	10382851.30	10382851.39	10382851.52	0.0088	0.0079 *
Earth	23716-03-09 07:26 G	10383218.71	10383218.81	10383218.97	0.0088	0.0076
Moon	23716-03-09 09:36 G	10383218.80	10383218.90	10383219.05	0.0088	0.0076 *
Moon	23717-03-11 14:38 G	10383585.99	10383586.11	10383586.28	0.0088	0.0072
Earth	23717-03-11 17:45 G	10383586.12	10383586.24	10383586.41	0.0088	0.0072 *
Earth	23718-03-14 04:04 G	10383953.53	10383953.67	10383953.85	0.0088	0.0068
Moon	23718-03-14 07:55 G	10383953.68	10383953.83	10383954.00	0.0088	0.0068 *
Moon	23719-03-16 11:16 G	10384320.80	10384320.97	10384321.15	0.0088	0.0064
Earth	23719-03-16 14:24 G	10384320.94	10384321.10	10384321.29	0.0088	0.0064 *
Earth	23720-03-18 00:28 G	10384688.35	10384688.52	10384688.72	0.0088	0.0060
Moon	23720-03-18 04:04 G	10384688.49	10384688.67	10384688.87	0.0088	0.0059 *
Moon	23721-03-20 08:52 G	10385055.70	10385055.87	10385056.08	0.0088	0.0056
Earth	23721-03-20 10:48 G	10385055.77	10385055.95	10385056.17	0.0088	0.0056 *
Earth	23722-03-22 20:52 G	10385423.19	10385423.37	10385423.60	0.0088	0.0052
Moon	23722-03-22 22:19 G	10385423.23	10385423.43	10385423.66	0.0088	0.0051 *
Earth	23723-03-25 07:12 G	10385790.61	10385790.80	10385791.04	0.0088	0.0048
Moon	23723-03-25 07:40 G	10385790.62	10385790.82	10385791.03	0.0088	0.0048 *
Moon	23724-03-26 16:04 G	10386157.95	10386158.17	10386158.41	0.0088	0.0043



Earth	23724-03-26 18:00 G	10386158.03	10386158.25	10386158.48	0.0088	0.0043	*
Earth	23725-03-29 04:04 G	10386525.46	10386525.67	10386525.92	0.0088	0.0039	
Moon	23725-03-29 06:43 G	10386525.56	10386525.78	10386526.01	0.0088	0.0039	*
Moon	23726-03-31 11:16 G	10386892.75	10386892.97	10386893.23	0.0088	0.0034	
Earth	23726-03-31 15:07 G	10386892.89	10386893.13	10386893.37	0.0088	0.0034	*
Earth	23727-04-03 01:12 G	10387260.32	10387260.55	10387260.81	0.0088	0.0030	
Moon	23727-04-03 05:02 G	10387260.48	10387260.71	10387260.96	0.0088	0.0030	*
Moon	23728-04-04 08:52 G	10387627.62	10387627.87	10387628.11	0.0088	0.0024	
Earth	23728-04-04 12:00 G	10387627.76	10387628.00	10387628.25	0.0088	0.0025	*
Earth	23729-04-06 22:19 G	10387995.19	10387995.43	10387995.69	0.0088	0.0021	
Moon	23729-04-07 01:40 G	10387995.32	10387995.57	10387995.83	0.0088	0.0022	*
Moon	23730-04-09 07:26 G	10388362.57	10388362.81	10388363.07	0.0088	0.0016	
Earth	23730-04-09 09:07 G	10388362.63	10388362.88	10388363.14	0.0088	0.0016	*
Earth	23731-04-11 19:40 G	10388730.07	10388730.32	10388730.58	0.0088	0.0011	
Moon	23731-04-11 20:38 G	10388730.09	10388730.36	10388730.62	0.0088	0.0012	*
Earth	23732-04-13 06:14 G	10389097.51	10389097.76	10389098.02	0.0088	0.0007	
Moon	23732-04-13 06:43 G	10389097.53	10389097.78	10389098.03	0.0088	0.0005	*
Mars	23733-03-17 22:48 G	10389436.22	10389436.45	10389436.73	0.0088	0.0059	
Moon	23733-04-15 14:38 G	10389464.85	10389465.11	10389465.38	0.0088	0.0002	
Earth	23733-04-15 16:48 G	10389464.95	10389465.20	10389465.46	0.0088	0.0002	*
Earth	23734-04-18 03:36 G	10389832.39	10389832.65	10389832.90	0.0088	0.0003	
Moon	23734-04-18 06:00 G	10389832.50	10389832.75	10389833.00	0.0088	0.0004	*
Mars	23735-02-12 09:50 G	10390132.57	10390132.91	10390133.24	0.0088	0.0023	
Moon	23735-04-20 10:48 G	10390199.69	10390199.95	10390200.21	0.0088	0.0006	
Earth	23735-04-20 14:09 G	10390199.84	10390200.09	10390200.35	0.0088	0.0008	*
Earth	23736-04-22 00:43 G	10390567.28	10390567.53	10390567.79	0.0088	0.0012	
Moon	23736-04-22 04:04 G	10390567.43	10390567.67	10390567.94	0.0088	0.0014	*
Moon	23737-04-24 08:24 G	10390934.60	10390934.85	10390935.10	0.0088	0.0015	
Earth	23737-04-24 11:31 G	10390934.73	10390934.98	10390935.24	0.0088	0.0017	*
Earth	23738-04-26 22:04 G	10391302.19	10391302.42	10391302.69	0.0088	0.0022	

Moon	23738-04-27 01:12 G	10391302.30	10391302.55	10391302.81	0.0088	0.0024 *
Moon	23739-04-29 07:55 G	10391669.60	10391669.83	10391670.08	0.0088	0.0026
Earth	23739-04-29 09:07 G	10391669.65	10391669.88	10391670.14	0.0088	0.0027 *
Earth	23740-04-30 20:09 G	10392037.11	10392037.34	10392037.59	0.0088	0.0031
Moon	23740-04-30 20:38 G	10392037.13	10392037.36	10392037.62	0.0088	0.0033 *
Earth	23741-05-03 06:57 G	10392404.57	10392404.79	10392405.04	0.0088	0.0036
Moon	23741-05-03 07:40 G	10392404.61	10392404.82	10392405.07	0.0088	0.0035 *
Moon	23742-05-05 16:04 G	10392771.94	10392772.17	10392772.41	0.0088	0.0042
Earth	23742-05-05 18:14 G	10392772.04	10392772.26	10392772.50	0.0088	0.0041 *
Earth	23743-05-08 05:02 G	10393139.51	10393139.71	10393139.95	0.0088	0.0046
Moon	23743-05-08 07:55 G	10393139.63	10393139.83	10393140.07	0.0088	0.0043 *
Moon	23744-05-09 12:57 G	10393506.83	10393507.04	10393507.25	0.0088	0.0052
Earth	23744-05-09 16:19 G	10393506.98	10393507.18	10393507.40	0.0088	0.0049 *
Earth	23745-05-12 03:07 G	10393874.45	10393874.63	10393874.86	0.0088	0.0054
Moon	23745-05-12 06:43 G	10393874.59	10393874.78	10393875.01	0.0088	0.0052 *
Moon	23746-05-14 11:31 G	10394241.81	10394241.98	10394242.17	0.0088	0.0061
Earth	23746-05-14 14:24 G	10394241.93	10394242.10	10394242.32	0.0088	0.0059 *
Earth	23747-05-17 01:40 G	10394609.40	10394609.57	10394609.76	0.0088	0.0063
Moon	23747-05-17 04:19 G	10394609.50	10394609.68	10394609.89	0.0088	0.0060 *
Moon	23748-05-18 12:00 G	10394976.85	10394977.00	10394977.16	0.0088	0.0069
Earth	23748-05-18 12:57 G	10394976.89	10394977.04	10394977.22	0.0088	0.0067 *
Earth	23749-05-21 00:14 G	10395344.37	10395344.51	10395344.68	0.0088	0.0071
Moon	23749-05-21 00:14 G	10395344.37	10395344.51	10395344.71	0.0088	0.0069 *
Earth	23750-05-23 11:45 G	10395711.87	10395711.99	10395712.14	0.0088	0.0075
Moon	23750-05-23 12:43 G	10395711.92	10395712.03	10395712.16	0.0088	0.0078 *
Moon	23751-05-25 20:24 G	10396079.25	10396079.35	10396079.51	0.0088	0.0077
Earth	23751-05-25 23:02 G	10396079.37	10396079.46	10396079.60	0.0088	0.0079 *
Earth	23752-05-27 10:19 G	10396446.87	10396446.93	10396447.06	0.0088	0.0083
Moon	23752-05-27 13:12 G	10396447.01	10396447.05	10396447.14	0.0088	0.0086 *
Moon	23753-05-29 18:57 G	10396814.21	10396814.29	10396814.39	0.0088	0.0083

Earth	23753-05-29 22:48 G	10396814.40	10396814.45	10396814.51	0.0088	0.0086
Venus	23763-04-23 07:40 G	10400429.75	10400429.82	10400429.95	0.0089	0.0079
Venus	23763-12-04 21:07 G	10400655.23	10400655.38	10400655.56	0.0089	0.0059
Venus	23764-07-17 10:33 G	10400880.74	10400880.94	10400881.14	0.0089	0.0039
Venus	23765-02-27 23:45 G	10401106.28	10401106.49	10401106.71	0.0089	0.0019
Venus	23765-10-11 12:57 G	10401331.82	10401332.04	10401332.26	0.0089	0.0001
Venus	23766-05-25 02:09 G	10401557.38	10401557.59	10401557.81	0.0089	0.0020
Venus	23767-01-05 15:07 G	10401782.94	10401783.13	10401783.34	0.0089	0.0040
Venus	23767-08-19 04:04 G	10402008.53	10402008.67	10402008.85	0.0089	0.0060
Venus	23768-03-31 17:45 G	10402234.15	10402234.24	10402234.34	0.0089	0.0079
Mercury	23774-07-09 06:14 G	10404524.73	10404524.76	10404524.82	0.0089	0.0085
Mercury	23774-10-05 08:52 G	10404612.80	10404612.87	10404612.98	0.0089	0.0077
Mercury	23775-01-01 11:45 G	10404700.89	10404700.99	10404701.11	0.0089	0.0067
Mercury	23775-03-30 14:24 G	10404788.99	10404789.10	10404789.25	0.0089	0.0058
Mercury	23775-06-26 17:02 G	10404877.08	10404877.21	10404877.37	0.0089	0.0050
Mercury	23775-09-22 19:55 G	10404965.19	10404965.33	10404965.49	0.0089	0.0040
Mercury	23775-12-19 22:33 G	10405053.29	10405053.44	10405053.61	0.0089	0.0031
Mercury	23776-03-17 01:26 G	10405141.40	10405141.56	10405141.73	0.0089	0.0022
Mercury	23776-06-13 04:04 G	10405229.50	10405229.67	10405229.84	0.0089	0.0013
Mercury	23776-09-09 06:43 G	10405317.61	10405317.78	10405317.95	0.0089	0.0004
Mercury	23776-12-06 09:21 G	10405405.72	10405405.89	10405406.06	0.0089	0.0005
Mercury	23777-03-04 12:00 G	10405493.83	10405494.00	10405494.17	0.0089	0.0014
Mercury	23777-05-31 14:38 G	10405581.95	10405582.11	10405582.27	0.0089	0.0022
Mercury	23777-08-27 17:02 G	10405670.06	10405670.21	10405670.37	0.0089	0.0031
Mercury	23777-11-23 19:26 G	10405758.17	10405758.31	10405758.47	0.0089	0.0040
Mercury	23778-02-19 22:04 G	10405846.29	10405846.42	10405846.57	0.0089	0.0049
Mercury	23778-05-19 00:28 G	10405934.41	10405934.52	10405934.66	0.0089	0.0058
Mercury	23778-08-15 03:21 G	10406022.53	10406022.64	10406022.75	0.0089	0.0066
Mercury	23778-11-11 05:45 G	10406110.66	10406110.74	10406110.84	0.0089	0.0074
Mercury	23779-02-07 07:55 G	10406198.79	10406198.83	10406198.91	0.0089	0.0084

Moon	23795-09-03 00:00 G	10412250.47	10412250.50	10412250.60	0.0090	0.0087
Moon	23796-09-04 12:28 G	10412618.00	10412618.02	10412618.05	0.0090	0.0089
Earth	23796-09-04 13:26 G	10412618.00	10412618.06	10412618.14	0.0090	0.0086 *
Earth	23797-09-07 02:09 G	10412985.52	10412985.59	10412985.72	0.0090	0.0083
Moon	23797-09-07 04:04 G	10412985.59	10412985.67	10412985.82	0.0090	0.0080 *
Moon	23798-09-09 12:00 G	10413352.92	10413353.00	10413353.13	0.0090	0.0082
Earth	23798-09-09 15:50 G	10413353.04	10413353.16	10413353.29	0.0090	0.0078 *
Earth	23799-09-12 04:48 G	10413720.56	10413720.70	10413720.85	0.0090	0.0074
Moon	23799-09-12 08:09 G	10413720.69	10413720.84	10413721.00	0.0090	0.0071 *
Moon	23800-09-14 13:55 G	10414087.95	10414088.08	10414088.25	0.0090	0.0073
Earth	23800-09-14 17:45 G	10414088.10	10414088.24	10414088.42	0.0090	0.0070 *
Earth	23801-09-17 06:43 G	10414455.63	10414455.78	10414455.98	0.0090	0.0066
Moon	23801-09-17 09:50 G	10414455.75	10414455.91	10414456.12	0.0090	0.0063 *
Moon	23802-09-19 17:31 G	10414823.07	10414823.23	10414823.43	0.0090	0.0064
Earth	23802-09-19 20:09 G	10414823.16	10414823.34	10414823.54	0.0090	0.0061 *
Earth	23803-09-22 09:07 G	10415190.70	10415190.88	10415191.10	0.0090	0.0057
Moon	23803-09-22 10:48 G	10415190.77	10415190.95	10415191.19	0.0090	0.0055 *
Earth	23804-09-23 22:33 G	10415558.24	10415558.44	10415558.66	0.0090	0.0052
Moon	23804-09-23 22:19 G	10415558.25	10415558.43	10415558.65	0.0090	0.0055 *
Moon	23805-09-26 11:16 G	10415925.74	10415925.97	10415926.20	0.0090	0.0045
Earth	23805-09-26 12:00 G	10415925.78	10415926.00	10415926.22	0.0090	0.0047 *
Earth	23806-09-29 00:28 G	10416293.31	10416293.52	10416293.77	0.0090	0.0043
Moon	23806-09-29 02:38 G	10416293.39	10416293.61	10416293.83	0.0090	0.0044 *
Moon	23807-10-01 10:48 G	10416660.71	10416660.95	10416661.19	0.0090	0.0035
Earth	23807-10-01 13:40 G	10416660.85	10416661.07	10416661.32	0.0090	0.0038 *
Earth	23808-10-03 02:38 G	10417028.38	10417028.61	10417028.86	0.0090	0.0033
Moon	23808-10-03 06:00 G	10417028.52	10417028.75	10417028.99	0.0090	0.0034 *
Moon	23809-10-05 11:45 G	10417395.75	10417395.99	10417396.25	0.0089	0.0026
Earth	23809-10-05 15:36 G	10417395.91	10417396.15	10417396.40	0.0089	0.0028 *
Earth	23810-10-08 04:19 G	10417763.44	10417763.68	10417763.94	0.0089	0.0023

Moon	23810-10-08 07:26 G	10417763.58	10417763.81	10417764.08	0.0089	0.0025 *
Moon	23811-10-10 14:38 G	10418130.86	10418131.11	10418131.36	0.0089	0.0017
Earth	23811-10-10 17:16 G	10418130.97	10418131.22	10418131.48	0.0089	0.0017 *
Earth	23812-10-12 06:00 G	10418498.50	10418498.75	10418499.01	0.0089	0.0013
Moon	23812-10-12 08:24 G	10418498.58	10418498.85	10418499.11	0.0089	0.0013 *
Moon	23813-10-14 18:28 G	10418866.03	10418866.27	10418866.52	0.0089	0.0006
Earth	23813-10-14 18:57 G	10418866.03	10418866.29	10418866.55	0.0089	0.0007 *
Moon	23814-10-17 07:12 G	10419233.54	10419233.80	10419234.07	0.0089	0.0003
Earth	23814-10-17 07:40 G	10419233.56	10419233.82	10419234.08	0.0089	0.0002 *
Mars	23814-12-27 12:43 G	10419304.79	10419305.03	10419305.29	0.0089	0.0042
Earth	23815-10-19 20:24 G	10419601.09	10419601.35	10419601.61	0.0089	0.0003
Moon	23815-10-19 22:04 G	10419601.17	10419601.42	10419601.67	0.0089	0.0003 *
Moon	23816-10-21 06:14 G	10419968.50	10419968.76	10419969.03	0.0089	0.0007
Earth	23816-10-21 09:07 G	10419968.63	10419968.88	10419969.15	0.0089	0.0009 *
Mars	23816-11-20 02:24 G	10419998.34	10419998.60	10419998.88	0.0089	0.0029
Earth	23817-10-23 21:36 G	10420336.16	10420336.40	10420336.67	0.0089	0.0014
Moon	23817-10-24 00:57 G	10420336.29	10420336.54	10420336.79	0.0089	0.0013 *
Moon	23818-10-26 06:28 G	10420703.53	10420703.77	10420704.04	0.0089	0.0019
Earth	23818-10-26 10:19 G	10420703.69	10420703.93	10420704.19	0.0089	0.0018 *
Earth	23819-10-28 22:48 G	10421071.21	10421071.45	10421071.71	0.0089	0.0023
Moon	23819-10-29 02:09 G	10421071.35	10421071.59	10421071.85	0.0089	0.0023 *
Moon	23820-10-30 08:09 G	10421438.62	10421438.84	10421439.10	0.0089	0.0030
Earth	23820-10-30 11:16 G	10421438.74	10421438.97	10421439.23	0.0089	0.0028 *
Earth	23821-11-01 23:31 G	10421806.26	10421806.48	10421806.74	0.0089	0.0033
Moon	23821-11-02 01:40 G	10421806.34	10421806.57	10421806.84	0.0089	0.0033 *
Moon	23822-11-04 11:16 G	10422173.76	10422173.97	10422174.21	0.0089	0.0038
Earth	23822-11-04 11:45 G	10422173.77	10422173.99	10422174.24	0.0089	0.0038 *
Moon	23823-11-07 00:00 G	10422541.28	10422541.50	10422541.75	0.0089	0.0042
Earth	23823-11-07 00:14 G	10422541.29	10422541.51	10422541.74	0.0089	0.0043 *
Earth	23824-11-08 12:14 G	10422908.81	10422909.01	10422909.25	0.0089	0.0048

Moon	23824-11-08 13:55 G	10422908.88	10422909.08	10422909.30	0.0089	0.0049	*
Moon	23825-11-10 21:50 G	10423276.20	10423276.41	10423276.63	0.0089	0.0051	
Earth	23825-11-11 00:14 G	10423276.33	10423276.51	10423276.74	0.0089	0.0053	*
Earth	23826-11-13 12:43 G	10423643.84	10423644.03	10423644.24	0.0089	0.0056	
Moon	23826-11-13 15:36 G	10423643.98	10423644.15	10423644.36	0.0089	0.0058	*
Moon	23827-11-15 21:21 G	10424011.21	10424011.39	10424011.59	0.0089	0.0059	
Earth	23827-11-16 00:43 G	10424011.37	10424011.53	10424011.74	0.0089	0.0061	*
Earth	23828-11-17 12:57 G	10424378.89	10424379.04	10424379.23	0.0089	0.0065	
Moon	23828-11-17 16:48 G	10424379.03	10424379.20	10424379.37	0.0089	0.0066	*
Moon	23829-11-19 22:19 G	10424746.28	10424746.43	10424746.61	0.0089	0.0067	
Earth	23829-11-20 01:40 G	10424746.41	10424746.57	10424746.73	0.0089	0.0069	*
Earth	23830-11-22 12:57 G	10425113.93	10425114.04	10425114.21	0.0089	0.0074	
Moon	23830-11-22 15:07 G	10425114.03	10425114.13	10425114.30	0.0089	0.0076	*
Moon	23831-11-25 00:43 G	10425481.42	10425481.53	10425481.67	0.0089	0.0076	
Earth	23831-11-25 00:57 G	10425481.45	10425481.54	10425481.69	0.0089	0.0078	*
Earth	23832-11-26 12:57 G	10425848.97	10425849.04	10425849.16	0.0089	0.0082	
Moon	23832-11-26 12:57 G	10425848.98	10425849.04	10425849.15	0.0089	0.0084	*
Earth	23833-11-29 00:28 G	10426216.48	10426216.52	10426216.62	0.0089	0.0086	
Moon	23833-11-29 02:38 G	10426216.53	10426216.61	10426216.69	0.0089	0.0083	*
Venus	23844-03-16 07:40 G	10429976.82	10429976.82	10429976.85	0.0088	0.0088	
Venus	23844-10-27 20:52 G	10430202.24	10430202.37	10430202.51	0.0088	0.0069	
Venus	23845-06-10 09:36 G	10430427.73	10430427.90	10430428.09	0.0088	0.0050	
Venus	23846-01-21 22:19 G	10430653.24	10430653.43	10430653.65	0.0088	0.0031	
Venus	23846-09-04 11:31 G	10430878.76	10430878.98	10430879.20	0.0088	0.0011	
Venus	23847-04-18 00:14 G	10431104.29	10431104.51	10431104.73	0.0088	0.0009	
Venus	23847-11-29 12:43 G	10431329.84	10431330.03	10431330.25	0.0088	0.0029	
Venus	23848-07-12 01:26 G	10431555.39	10431555.56	10431555.76	0.0088	0.0048	
Venus	23849-02-22 14:09 G	10431780.96	10431781.09	10431781.25	0.0088	0.0067	
Venus	23849-10-06 03:07 G	10432006.59	10432006.63	10432006.70	0.0088	0.0086	
Mercury	23855-07-16 04:19 G	10434115.65	10434115.68	10434115.73	0.0088	0.0084	

Mercury	23855-10-12 06:00 G	10434203.69	10434203.75	10434203.83	0.0088	0.0077
Mercury	23856-01-08 07:40 G	10434291.75	10434291.82	10434291.92	0.0088	0.0070
Mercury	23856-04-05 09:36 G	10434379.80	10434379.90	10434380.00	0.0088	0.0062
Mercury	23856-07-02 11:16 G	10434467.86	10434467.97	10434468.08	0.0088	0.0055
Mercury	23856-09-28 12:43 G	10434555.92	10434556.03	10434556.16	0.0088	0.0049
Mercury	23856-12-25 14:24 G	10434643.98	10434644.10	10434644.24	0.0088	0.0041
Mercury	23857-03-23 16:19 G	10434732.05	10434732.18	10434732.32	0.0088	0.0034
Mercury	23857-06-19 18:00 G	10434820.11	10434820.25	10434820.39	0.0088	0.0026
Mercury	23857-09-15 19:40 G	10434908.18	10434908.32	10434908.47	0.0088	0.0019
Mercury	23857-12-12 21:21 G	10434996.25	10434996.39	10434996.54	0.0088	0.0012
Mercury	23858-03-10 23:16 G	10435084.32	10435084.47	10435084.62	0.0088	0.0004
Mercury	23858-06-07 00:57 G	10435172.39	10435172.54	10435172.69	0.0088	0.0003
Mercury	23858-09-03 02:38 G	10435260.47	10435260.61	10435260.76	0.0088	0.0011
Mercury	23858-11-30 04:19 G	10435348.54	10435348.68	10435348.83	0.0088	0.0018
Mercury	23859-02-26 06:14 G	10435436.62	10435436.76	10435436.90	0.0088	0.0025
Mercury	23859-05-25 07:55 G	10435524.70	10435524.83	10435524.97	0.0088	0.0033
Mercury	23859-08-21 09:36 G	10435612.78	10435612.90	10435613.04	0.0088	0.0041
Mercury	23859-11-17 11:16 G	10435700.86	10435700.97	10435701.11	0.0088	0.0048
Mercury	23860-02-13 13:12 G	10435788.94	10435789.05	10435789.17	0.0088	0.0055
Mercury	23860-05-11 14:52 G	10435877.03	10435877.12	10435877.23	0.0088	0.0063
Mercury	23860-08-07 16:48 G	10435965.12	10435965.20	10435965.29	0.0088	0.0070
Mercury	23860-11-03 18:28 G	10436053.21	10436053.27	10436053.35	0.0088	0.0078
Mercury	23861-01-30 20:09 G	10436141.33	10436141.34	10436141.39	0.0088	0.0086
Moon	23878-03-05 16:19 G	10442384.12	10442384.18	10442384.29	0.0088	0.0083
Earth	23878-03-05 18:14 G	10442384.24	10442384.26	10442384.29	0.0088	0.0087 *
Earth	23879-03-08 03:50 G	10442751.62	10442751.66	10442751.77	0.0088	0.0084
Moon	23880-03-09 11:02 G	10443118.85	10443118.96	10443119.11	0.0088	0.0076
Earth	23880-03-09 14:24 G	10443119.01	10443119.10	10443119.22	0.0088	0.0080 *
Earth	23881-03-12 00:43 G	10443486.42	10443486.53	10443486.67	0.0088	0.0076
Moon	23881-03-12 04:04 G	10443486.60	10443486.67	10443486.79	0.0088	0.0081 *

Moon	23882-03-14 07:40 G	10443853.68	10443853.82	10443854.00	0.0088	0.0068
Earth	23882-03-14 11:16 G	10443853.83	10443853.97	10443854.12	0.0088	0.0072 *
Earth	23883-03-16 21:21 G	10444221.24	10444221.39	10444221.56	0.0088	0.0068
Moon	23883-03-17 00:00 G	10444221.36	10444221.50	10444221.65	0.0088	0.0072 *
Moon	23884-03-18 05:31 G	10444588.57	10444588.73	10444588.93	0.0088	0.0060
Earth	23884-03-18 07:40 G	10444588.65	10444588.82	10444589.00	0.0088	0.0064 *
Earth	23885-03-20 17:31 G	10444956.06	10444956.23	10444956.44	0.0088	0.0060
Moon	23885-03-20 17:45 G	10444956.08	10444956.24	10444956.44	0.0088	0.0064 *
Earth	23886-03-23 03:36 G	10445323.48	10445323.65	10445323.87	0.0088	0.0056
Moon	23886-03-23 04:33 G	10445323.52	10445323.69	10445323.92	0.0088	0.0052 *
Moon	23887-03-25 12:28 G	10445690.82	10445691.02	10445691.23	0.0088	0.0055
Earth	23887-03-25 14:09 G	10445690.89	10445691.09	10445691.31	0.0088	0.0051 *
Earth	23888-03-27 00:00 G	10446058.30	10446058.50	10446058.74	0.0088	0.0047
Moon	23888-03-27 03:21 G	10446058.43	10446058.64	10446058.88	0.0088	0.0042 *
Moon	23889-03-29 07:26 G	10446425.59	10446425.81	10446426.03	0.0088	0.0046
Earth	23889-03-29 10:33 G	10446425.73	10446425.94	10446426.18	0.0088	0.0042 *
Earth	23890-03-31 20:38 G	10446793.15	10446793.36	10446793.61	0.0088	0.0038
Moon	23890-04-01 00:28 G	10446793.29	10446793.52	10446793.77	0.0088	0.0033 *
Moon	23891-04-03 04:04 G	10447160.46	10447160.67	10447160.92	0.0088	0.0038
Earth	23891-04-03 07:12 G	10447160.58	10447160.80	10447161.05	0.0088	0.0033 *
Earth	23892-04-04 17:45 G	10447528.01	10447528.24	10447528.49	0.0088	0.0028
Moon	23892-04-04 19:55 G	10447528.09	10447528.33	10447528.60	0.0088	0.0024 *
Moon	23893-04-07 02:38 G	10447895.39	10447895.61	10447895.86	0.0088	0.0028
Earth	23893-04-07 04:19 G	10447895.44	10447895.68	10447895.94	0.0088	0.0023 *
Moon	23894-04-09 14:38 G	10448262.85	10448263.11	10448263.38	0.0088	0.0014
Earth	23894-04-09 14:38 G	10448262.88	10448263.11	10448263.38	0.0088	0.0019 *
Earth	23895-04-12 01:26 G	10448630.31	10448630.56	10448630.82	0.0088	0.0014
Moon	23895-04-12 02:38 G	10448630.38	10448630.61	10448630.87	0.0088	0.0018 *
Moon	23896-04-13 09:50 G	10448997.65	10448997.91	10448998.18	0.0088	0.0004
Earth	23896-04-13 12:00 G	10448997.75	10448998.00	10448998.26	0.0088	0.0009 *



Earth	23897-04-15 22:33 G	10449365.18	10449365.44	10449365.70	0.0088	0.0004
Moon	23897-04-16 01:40 G	10449365.33	10449365.57	10449365.83	0.0088	0.0009 *
Moon	23898-04-18 05:45 G	10449732.49	10449732.74	10449733.00	0.0088	0.0006
Earth	23898-04-18 09:21 G	10449732.63	10449732.89	10449733.14	0.0088	0.0001 *
Mars	23898-09-26 07:26 G	10449893.47	10449893.81	10449894.16	0.0088	0.0010
Earth	23899-04-20 19:40 G	10450100.06	10450100.32	10450100.58	0.0088	0.0006
Moon	23899-04-20 23:16 G	10450100.21	10450100.47	10450100.73	0.0088	0.0002 *
Moon	23900-04-23 03:21 G	10450467.40	10450467.64	10450467.90	0.0088	0.0016
Earth	23900-04-23 06:14 G	10450467.51	10450467.76	10450468.02	0.0088	0.0011 *
Mars	23900-08-23 17:02 G	10450590.03	10450590.21	10450590.42	0.0088	0.0072
Earth	23901-04-25 16:48 G	10450834.96	10450835.20	10450835.46	0.0088	0.0016
Moon	23901-04-25 18:57 G	10450835.03	10450835.29	10450835.56	0.0088	0.0012 *
Moon	23902-04-28 02:24 G	10451202.37	10451202.60	10451202.85	0.0088	0.0025
Earth	23902-04-28 03:36 G	10451202.41	10451202.65	10451202.91	0.0088	0.0021 *
Moon	23903-04-30 13:55 G	10451569.82	10451570.08	10451570.34	0.0088	0.0021
Earth	23903-04-30 14:24 G	10451569.86	10451570.10	10451570.36	0.0088	0.0026 *
Earth	23904-05-02 01:26 G	10451937.32	10451937.56	10451937.80	0.0088	0.0030
Moon	23904-05-02 02:38 G	10451937.40	10451937.61	10451937.86	0.0088	0.0035 *
Moon	23905-05-04 09:36 G	10452304.67	10452304.90	10452305.17	0.0088	0.0031
Earth	23905-05-04 12:28 G	10452304.79	10452305.02	10452305.26	0.0088	0.0035 *
Earth	23906-05-06 23:16 G	10452672.25	10452672.47	10452672.71	0.0088	0.0040
Moon	23906-05-07 02:38 G	10452672.41	10452672.61	10452672.85	0.0088	0.0045 *
Moon	23907-05-09 06:57 G	10453039.57	10453039.79	10453040.03	0.0088	0.0041
Earth	23907-05-09 10:04 G	10453039.72	10453039.92	10453040.17	0.0088	0.0046 *
Earth	23908-05-10 21:36 G	10453407.19	10453407.40	10453407.62	0.0088	0.0049
Moon	23908-05-11 00:43 G	10453407.35	10453407.53	10453407.76	0.0088	0.0054 *
Moon	23909-05-13 06:14 G	10453774.56	10453774.76	10453774.97	0.0088	0.0050
Earth	23909-05-13 08:38 G	10453774.67	10453774.86	10453775.08	0.0088	0.0054 *
Earth	23910-05-15 19:55 G	10454142.14	10454142.33	10454142.53	0.0088	0.0059
Moon	23910-05-15 21:36 G	10454142.22	10454142.40	10454142.60	0.0088	0.0062 *

Moon	23911-05-18 06:00 G	10454509.58	10454509.75	10454509.95	0.0088	0.0059
Earth	23911-05-18 06:43 G	10454509.62	10454509.78	10454509.98	0.0088	0.0064 *
Moon	23912-05-19 17:16 G	10454877.07	10454877.22	10454877.38	0.0088	0.0072
Earth	23912-05-19 18:00 G	10454877.10	10454877.25	10454877.43	0.0088	0.0068 *
Earth	23913-05-22 05:02 G	10455244.59	10455244.71	10455244.88	0.0088	0.0072
Moon	23913-05-22 06:43 G	10455244.65	10455244.78	10455244.97	0.0088	0.0069 *
Moon	23914-05-24 13:40 G	10455611.99	10455612.07	10455612.21	0.0088	0.0081
Earth	23914-05-24 16:19 G	10455612.08	10455612.18	10455612.34	0.0088	0.0077 *
Earth	23915-05-27 03:36 G	10455979.57	10455979.65	10455979.78	0.0088	0.0081
Moon	23915-05-27 07:40 G	10455979.70	10455979.82	10455979.95	0.0088	0.0076 *
Moon	23916-05-28 12:00 G	10456347.00	10456347.00	10456347.04	0.0088	0.0088
Earth	23916-05-28 15:07 G	10456347.08	10456347.13	10456347.24	0.0088	0.0085
Earth	23917-05-31 02:52 G	10456714.62	10456714.62	10456714.66	0.0088	0.0088
Moon	23917-05-31 06:14 G	10456714.71	10456714.76	10456714.87	0.0088	0.0085
Venus	23928-03-09 04:19 G	10460649.57	10460649.68	10460649.83	0.0089	0.0070
Venus	23928-10-20 17:45 G	10460875.07	10460875.24	10460875.43	0.0089	0.0050
Venus	23929-06-03 06:43 G	10461100.59	10461100.78	10461101.00	0.0089	0.0031
Venus	23930-01-14 20:09 G	10461326.12	10461326.34	10461326.56	0.0089	0.0011
Venus	23930-08-28 09:21 G	10461551.67	10461551.89	10461552.11	0.0089	0.0009
Venus	23931-04-10 22:19 G	10461777.23	10461777.43	10461777.65	0.0089	0.0029
Venus	23931-11-22 11:16 G	10462002.81	10462002.97	10462003.18	0.0089	0.0049
Venus	23932-07-05 00:43 G	10462228.40	10462228.53	10462228.68	0.0089	0.0068
Venus	23933-02-15 13:26 G	10462454.05	10462454.06	10462454.12	0.0089	0.0088
Mercury	23939-04-07 03:50 G	10464695.63	10464695.66	10464695.72	0.0089	0.0085
Mercury	23939-07-04 06:28 G	10464783.70	10464783.77	10464783.88	0.0089	0.0076
Mercury	23939-09-30 09:21 G	10464871.79	10464871.89	10464872.02	0.0089	0.0067
Mercury	23939-12-27 12:00 G	10464959.89	10464960.00	10464960.15	0.0089	0.0058
Mercury	23940-03-24 15:07 G	10465047.99	10465048.13	10465048.27	0.0089	0.0049
Mercury	23940-06-20 17:45 G	10465136.09	10465136.24	10465136.39	0.0089	0.0040
Mercury	23940-09-16 20:24 G	10465224.19	10465224.35	10465224.51	0.0089	0.0031

Mercury	23940-12-13 23:02 G	10465312.30	10465312.46	10465312.63	0.0089	0.0022
Mercury	23941-03-12 01:40 G	10465400.41	10465400.57	10465400.74	0.0089	0.0013
Mercury	23941-06-08 04:33 G	10465488.52	10465488.69	10465488.86	0.0089	0.0005
Mercury	23941-09-04 07:12 G	10465576.63	10465576.80	10465576.97	0.0089	0.0006
Mercury	23941-12-01 09:36 G	10465664.74	10465664.90	10465665.07	0.0089	0.0014
Mercury	23942-02-27 12:14 G	10465752.85	10465753.01	10465753.18	0.0089	0.0023
Mercury	23942-05-26 14:52 G	10465840.96	10465841.12	10465841.28	0.0089	0.0031
Mercury	23942-08-22 17:16 G	10465929.08	10465929.22	10465929.38	0.0089	0.0040
Mercury	23942-11-18 19:40 G	10466017.20	10466017.32	10466017.48	0.0089	0.0050
Mercury	23943-02-14 22:33 G	10466105.32	10466105.44	10466105.57	0.0089	0.0058
Mercury	23943-05-14 00:57 G	10466193.44	10466193.54	10466193.66	0.0089	0.0066
Mercury	23943-08-10 03:21 G	10466281.57	10466281.64	10466281.74	0.0089	0.0075
Mercury	23943-11-06 06:00 G	10466369.70	10466369.75	10466369.82	0.0089	0.0083
Moon	23960-09-05 19:12 G	10472518.30	10472518.30	10472518.32	0.0090	0.0090
Earth	23961-09-08 05:31 G	10472885.68	10472885.73	10472885.79	0.0090	0.0087
Earth	23962-09-10 18:28 G	10473253.18	10473253.27	10473253.37	0.0090	0.0083
Moon	23962-09-10 21:50 G	10473253.32	10473253.41	10473253.55	0.0090	0.0081 *
Moon	23963-09-13 03:50 G	10473620.59	10473620.66	10473620.80	0.0090	0.0082
Earth	23963-09-13 07:26 G	10473620.71	10473620.81	10473620.95	0.0090	0.0079 *
Earth	23964-09-14 20:09 G	10473988.23	10473988.34	10473988.51	0.0090	0.0075
Moon	23964-09-14 23:31 G	10473988.34	10473988.48	10473988.66	0.0090	0.0071 *
Moon	23965-09-17 08:09 G	10474355.70	10474355.84	10474355.99	0.0090	0.0073
Earth	23965-09-17 09:36 G	10474355.76	10474355.90	10474356.08	0.0090	0.0070 *
Earth	23966-09-19 22:19 G	10474723.28	10474723.43	10474723.63	0.0090	0.0066
Moon	23966-09-19 23:02 G	10474723.29	10474723.46	10474723.67	0.0090	0.0063 *
Earth	23967-09-22 11:45 G	10475090.82	10475090.99	10475091.20	0.0090	0.0061
Moon	23967-09-22 11:45 G	10475090.84	10475090.99	10475091.19	0.0090	0.0065 *
Moon	23968-09-23 23:02 G	10475458.26	10475458.46	10475458.69	0.0090	0.0053
Earth	23968-09-24 01:12 G	10475458.36	10475458.55	10475458.76	0.0090	0.0056 *
Earth	23969-09-26 14:24 G	10475825.89	10475826.10	10475826.32	0.0090	0.0051

Moon	23969-09-26 16:33 G	10475826.01	10475826.19	10475826.41	0.0090	0.0055 *
Moon	23970-09-29 00:00 G	10476193.29	10476193.50	10476193.75	0.0090	0.0043
Earth	23970-09-29 03:07 G	10476193.44	10476193.63	10476193.88	0.0090	0.0047 *
Earth	23971-10-01 16:48 G	10476560.97	10476561.20	10476561.43	0.0090	0.0041
Moon	23971-10-01 20:24 G	10476561.14	10476561.35	10476561.58	0.0090	0.0045 *
Moon	23972-10-03 02:24 G	10476928.38	10476928.60	10476928.85	0.0090	0.0033
Earth	23972-10-03 06:00 G	10476928.52	10476928.75	10476928.99	0.0090	0.0036 *
Earth	23973-10-05 18:43 G	10477296.05	10477296.28	10477296.53	0.0090	0.0031
Moon	23973-10-05 21:50 G	10477296.18	10477296.41	10477296.67	0.0090	0.0036 *
Moon	23974-10-08 05:45 G	10477663.50	10477663.74	10477663.99	0.0090	0.0022
Earth	23974-10-08 07:40 G	10477663.58	10477663.82	10477664.08	0.0090	0.0026 *
Earth	23975-10-10 20:24 G	10478031.11	10478031.35	10478031.62	0.0089	0.0021
Moon	23975-10-10 21:21 G	10478031.15	10478031.39	10478031.66	0.0089	0.0025 *
Moon	23976-10-12 09:21 G	10478398.65	10478398.89	10478399.14	0.0089	0.0011
Earth	23976-10-12 09:21 G	10478398.65	10478398.89	10478399.16	0.0089	0.0016 *
Moon	23977-10-14 20:38 G	10478766.10	10478766.36	10478766.62	0.0089	0.0014
Earth	23977-10-14 22:19 G	10478766.17	10478766.43	10478766.69	0.0089	0.0010 *
Mars	23978-08-12 22:04 G	10479068.25	10479068.42	10479068.60	0.0089	0.0070
Earth	23978-10-17 11:02 G	10479133.70	10479133.96	10479134.22	0.0089	0.0005
Moon	23978-10-17 13:26 G	10479133.81	10479134.06	10479134.31	0.0089	0.0001 *
Moon	23979-10-19 20:52 G	10479501.11	10479501.37	10479501.63	0.0089	0.0004
Earth	23979-10-20 00:00 G	10479501.24	10479501.50	10479501.76	0.0089	0.0001 *
Mars	23980-07-06 09:36 G	10479761.62	10479761.90	10479762.19	0.0089	0.0000
Earth	23980-10-21 12:28 G	10479868.77	10479869.02	10479869.29	0.0089	0.0007
Moon	23980-10-21 16:19 G	10479868.93	10479869.18	10479869.44	0.0089	0.0011 *
Moon	23981-10-23 22:04 G	10480236.17	10480236.42	10480236.68	0.0089	0.0007
Earth	23981-10-24 01:26 G	10480236.31	10480236.56	10480236.82	0.0089	0.0011 *
Mars	23982-05-30 22:19 G	10480455.28	10480455.43	10480455.63	0.0089	0.0071
Earth	23982-10-26 14:09 G	10480603.84	10480604.09	10480604.35	0.0089	0.0017
Moon	23982-10-26 17:31 G	10480603.98	10480604.23	10480604.49	0.0089	0.0021 *

Moon	23983-10-29 00:57 G	10480971.30	10480971.54	10480971.79	0.0089	0.0017
Earth	23983-10-29 02:52 G	10480971.38	10480971.62	10480971.88	0.0089	0.0022 *
Earth	23984-10-30 15:21 G	10481338.91	10481339.14	10481339.40	0.0089	0.0027
Moon	23984-10-30 16:48 G	10481338.96	10481339.20	10481339.46	0.0089	0.0031 *
Moon	23985-11-02 03:50 G	10481706.42	10481706.66	10481706.90	0.0089	0.0028
Earth	23985-11-02 03:50 G	10481706.43	10481706.66	10481706.92	0.0089	0.0033 *
Moon	23986-11-04 15:07 G	10482073.90	10482074.13	10482074.37	0.0089	0.0042
Earth	23986-11-04 16:19 G	10482073.96	10482074.18	10482074.43	0.0089	0.0038 *
Earth	23987-11-07 04:48 G	10482441.48	10482441.70	10482441.94	0.0089	0.0042
Moon	23987-11-07 06:43 G	10482441.57	10482441.78	10482442.02	0.0089	0.0039 *
Moon	23988-11-08 13:40 G	10482808.88	10482809.07	10482809.31	0.0089	0.0053
Earth	23988-11-08 17:02 G	10482809.00	10482809.21	10482809.44	0.0089	0.0047 *
Earth	23989-11-11 05:02 G	10483176.52	10483176.71	10483176.94	0.0089	0.0052
Moon	23989-11-11 08:52 G	10483176.66	10483176.87	10483177.10	0.0089	0.0047 *
Moon	23990-11-13 13:55 G	10483543.91	10483544.08	10483544.28	0.0089	0.0062
Earth	23990-11-13 17:16 G	10483544.04	10483544.22	10483544.44	0.0089	0.0057 *
Earth	23991-11-16 05:45 G	10483911.56	10483911.74	10483911.93	0.0089	0.0062
Moon	23991-11-16 08:52 G	10483911.69	10483911.87	10483912.09	0.0089	0.0057 *
Moon	23992-11-17 15:21 G	10484279.01	10484279.14	10484279.31	0.0089	0.0071
Earth	23992-11-17 17:31 G	10484279.08	10484279.23	10484279.42	0.0089	0.0066 *
Earth	23993-11-20 05:16 G	10484646.60	10484646.72	10484646.91	0.0089	0.0071
Moon	23993-11-20 07:26 G	10484646.64	10484646.81	10484646.99	0.0089	0.0066 *
Earth	23994-11-22 17:31 G	10485014.12	10485014.23	10485014.40	0.0089	0.0075
Moon	23994-11-22 17:45 G	10485014.13	10485014.24	10485014.35	0.0089	0.0079 *
Moon	23995-11-25 04:19 G	10485381.56	10485381.68	10485381.85	0.0089	0.0075
Earth	23995-11-25 06:00 G	10485381.65	10485381.75	10485381.88	0.0089	0.0079 *
Earth	23996-11-26 18:00 G	10485749.17	10485749.25	10485749.35	0.0089	0.0083
Moon	23996-11-26 19:26 G	10485749.30	10485749.31	10485749.38	0.0089	0.0088 *
Moon	23997-11-29 02:24 G	10486116.54	10486116.60	10486116.73	0.0089	0.0083
Earth	23997-11-29 06:00 G	10486116.71	10486116.75	10486116.80	0.0089	0.0087 *

# 25TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 25th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	24009-01-30 04:48	G	10490196.61	10490196.70	10490196.81	0.0088	0.0079	
Venus	24009-09-12 17:45	G	10490422.09	10490422.24	10490422.41	0.0088	0.0060	
Venus	24010-04-26 06:28	G	10490647.59	10490647.77	10490647.98	0.0088	0.0041	
Venus	24010-12-07 19:40	G	10490873.11	10490873.32	10490873.54	0.0088	0.0021	
Venus	24011-07-21 08:38	G	10491098.64	10491098.86	10491099.08	0.0088	0.0002	
Venus	24012-03-02 21:21	G	10491324.17	10491324.39	10491324.61	0.0088	0.0018	
Venus	24012-10-14 10:04	G	10491549.73	10491549.92	10491550.13	0.0088	0.0037	
Venus	24013-05-27 22:48	G	10491775.29	10491775.45	10491775.63	0.0088	0.0057	
Venus	24014-01-08 11:31	G	10492000.88	10492000.98	10492001.11	0.0088	0.0076	
Mercury	24020-04-12 03:07	G	10494286.60	10494286.63	10494286.69	0.0088	0.0083	
Mercury	24020-07-09 04:48	G	10494374.64	10494374.70	10494374.79	0.0088	0.0076	
Mercury	24020-10-05 06:43	G	10494462.69	10494462.78	10494462.87	0.0088	0.0069	
Mercury	24021-01-01 08:24	G	10494550.75	10494550.85	10494550.95	0.0088	0.0061	
Mercury	24021-03-30 09:50	G	10494638.81	10494638.91	10494639.04	0.0088	0.0055	
Mercury	24021-06-26 11:31	G	10494726.87	10494726.98	10494727.11	0.0088	0.0047	
Mercury	24021-09-22 13:12	G	10494814.93	10494815.05	10494815.19	0.0088	0.0040	
Mercury	24021-12-19 15:07	G	10494903.00	10494903.13	10494903.27	0.0088	0.0032	
Mercury	24022-03-17 16:48	G	10494991.06	10494991.20	10494991.34	0.0088	0.0025	

Mercury	24022-06-13 18:28 G	10495079.13	10495079.27	10495079.42	0.0088	0.0018
Mercury	24022-09-09 20:09 G	10495167.20	10495167.34	10495167.49	0.0088	0.0011
Mercury	24022-12-06 22:04 G	10495255.27	10495255.42	10495255.56	0.0088	0.0003
Mercury	24023-03-04 23:45 G	10495343.34	10495343.49	10495343.64	0.0088	0.0004
Mercury	24023-06-01 01:26 G	10495431.42	10495431.56	10495431.71	0.0088	0.0012
Mercury	24023-08-28 03:07 G	10495519.49	10495519.63	10495519.78	0.0088	0.0019
Mercury	24023-11-24 04:48 G	10495607.57	10495607.70	10495607.85	0.0088	0.0027
Mercury	24024-02-20 06:43 G	10495695.65	10495695.78	10495695.92	0.0088	0.0034
Mercury	24024-05-18 08:09 G	10495783.72	10495783.84	10495783.99	0.0088	0.0042
Mercury	24024-08-14 10:04 G	10495871.81	10495871.92	10495872.05	0.0088	0.0049
Mercury	24024-11-10 11:45 G	10495959.89	10495959.99	10495960.12	0.0088	0.0057
Mercury	24025-02-06 13:40 G	10496047.98	10496048.07	10496048.18	0.0088	0.0064
Mercury	24025-05-05 15:21 G	10496136.07	10496136.14	10496136.24	0.0088	0.0072
Mercury	24025-08-01 17:16 G	10496224.17	10496224.22	10496224.29	0.0088	0.0079
Mercury	24025-10-28 18:57 G	10496312.28	10496312.29	10496312.33	0.0088	0.0087
Earth	24044-03-09 20:24 G	10503019.31	10503019.35	10503019.44	0.0088	0.0085
Moon	24044-03-09 23:45 G	10503019.43	10503019.49	10503019.60	0.0088	0.0083 *
Moon	24045-03-12 03:50 G	10503386.59	10503386.66	10503386.76	0.0088	0.0082
Earth	24045-03-12 06:43 G	10503386.71	10503386.78	10503386.90	0.0088	0.0081 *
Earth	24046-03-14 17:02 G	10503754.11	10503754.21	10503754.35	0.0088	0.0077
Moon	24046-03-14 19:26 G	10503754.19	10503754.31	10503754.46	0.0088	0.0075 *
Moon	24047-03-17 02:38 G	10504121.51	10504121.61	10504121.77	0.0088	0.0075
Earth	24047-03-17 03:21 G	10504121.52	10504121.64	10504121.81	0.0088	0.0073 *
Moon	24048-03-18 13:40 G	10504488.91	10504489.07	10504489.25	0.0088	0.0067
Earth	24048-03-18 13:26 G	10504488.93	10504489.06	10504489.25	0.0088	0.0069 *
Earth	24049-03-21 00:00 G	10504856.34	10504856.50	10504856.69	0.0088	0.0064
Moon	24049-03-21 01:26 G	10504856.42	10504856.56	10504856.75	0.0088	0.0066 *
Moon	24050-03-23 07:12 G	10505223.63	10505223.80	10505224.02	0.0088	0.0058
Earth	24050-03-23 10:04 G	10505223.76	10505223.92	10505224.14	0.0088	0.0060 *
Earth	24051-03-25 20:24 G	10505591.17	10505591.35	10505591.57	0.0088	0.0055

Moon	24051-03-25 23:31 G	10505591.30	10505591.48	10505591.69	0.0088	0.0056 *
Moon	24052-03-27 02:52 G	10505958.43	10505958.62	10505958.85	0.0088	0.0049
Earth	24052-03-27 06:28 G	10505958.59	10505958.77	10505959.01	0.0088	0.0051 *
Earth	24053-03-29 16:48 G	10506326.00	10506326.20	10506326.44	0.0088	0.0046
Moon	24053-03-29 20:09 G	10506326.14	10506326.34	10506326.58	0.0088	0.0047 *
Moon	24054-04-01 00:14 G	10506693.31	10506693.51	10506693.76	0.0088	0.0041
Earth	24054-04-01 03:21 G	10506693.42	10506693.64	10506693.88	0.0088	0.0041 *
Earth	24055-04-03 13:40 G	10507060.84	10507061.07	10507061.31	0.0088	0.0036
Moon	24055-04-03 15:21 G	10507060.91	10507061.14	10507061.40	0.0088	0.0037 *
Moon	24056-04-04 23:45 G	10507428.26	10507428.49	10507428.73	0.0088	0.0030
Earth	24056-04-05 00:00 G	10507428.27	10507428.50	10507428.75	0.0088	0.0031 *
Moon	24057-04-07 09:50 G	10507795.67	10507795.91	10507796.17	0.0088	0.0027
Earth	24057-04-07 10:33 G	10507795.70	10507795.94	10507796.19	0.0088	0.0026 *
Earth	24058-04-09 20:52 G	10508163.13	10508163.37	10508163.63	0.0088	0.0021
Moon	24058-04-09 23:02 G	10508163.22	10508163.46	10508163.71	0.0088	0.0020 *
Moon	24059-04-12 04:04 G	10508530.43	10508530.67	10508530.94	0.0088	0.0018
Earth	24059-04-12 07:26 G	10508530.56	10508530.81	10508531.07	0.0088	0.0016 *
Earth	24060-04-13 18:00 G	10508898.00	10508898.25	10508898.51	0.0088	0.0011
Moon	24060-04-13 21:07 G	10508898.14	10508898.38	10508898.64	0.0088	0.0011 *
Moon	24061-04-16 00:57 G	10509265.29	10509265.54	10509265.80	0.0088	0.0007
Earth	24061-04-16 04:48 G	10509265.44	10509265.70	10509265.95	0.0088	0.0006 *
Earth	24062-04-18 15:07 G	10509632.87	10509633.13	10509633.39	0.0088	0.0001
Moon	24062-04-18 18:14 G	10509633.00	10509633.26	10509633.52	0.0088	0.0000 *
Mars	24062-05-10 04:33 G	10509654.41	10509654.69	10509655.02	0.0088	0.0043
Moon	24063-04-20 23:02 G	10510000.21	10510000.46	10510000.72	0.0088	0.0005
Earth	24063-04-21 01:40 G	10510000.32	10510000.57	10510000.83	0.0088	0.0004 *
Mars	24064-04-05 15:50 G	10510350.86	10510351.16	10510351.48	0.0088	0.0039
Earth	24064-04-22 12:14 G	10510367.75	10510368.01	10510368.27	0.0088	0.0009
Moon	24064-04-22 13:26 G	10510367.81	10510368.06	10510368.33	0.0088	0.0010 *
Earth	24065-04-24 22:33 G	10510735.20	10510735.44	10510735.71	0.0088	0.0015



Moon	24065-04-24 22:48 G	10510735.21	10510735.45	10510735.70	0.0088	0.0014	*
Moon	24066-04-27 08:24 G	10511102.60	10511102.85	10511103.12	0.0088	0.0020	
Earth	24066-04-27 09:07 G	10511102.65	10511102.88	10511103.15	0.0088	0.0020	*
Earth	24067-04-29 19:40 G	10511470.09	10511470.32	10511470.58	0.0088	0.0025	
Moon	24067-04-29 22:19 G	10511470.19	10511470.43	10511470.67	0.0088	0.0024	*
Moon	24068-05-01 03:36 G	10511837.40	10511837.65	10511837.89	0.0088	0.0030	
Earth	24068-05-01 06:28 G	10511837.54	10511837.77	10511838.03	0.0088	0.0030	*
Earth	24069-05-03 17:02 G	10512205.00	10512205.21	10512205.47	0.0088	0.0035	
Moon	24069-05-03 20:52 G	10512205.14	10512205.37	10512205.61	0.0088	0.0035	*
Moon	24070-05-06 00:14 G	10512572.30	10512572.51	10512572.76	0.0088	0.0040	
Earth	24070-05-06 03:50 G	10512572.46	10512572.66	10512572.92	0.0088	0.0040	*
Earth	24071-05-08 15:21 G	10512939.92	10512940.14	10512940.36	0.0088	0.0044	
Moon	24071-05-08 18:14 G	10512940.04	10512940.26	10512940.49	0.0088	0.0044	*
Moon	24072-05-10 00:00 G	10513307.29	10513307.50	10513307.71	0.0088	0.0049	
Earth	24072-05-10 02:09 G	10513307.39	10513307.59	10513307.82	0.0088	0.0049	*
Earth	24073-05-12 13:12 G	10513674.86	10513675.05	10513675.27	0.0088	0.0054	
Moon	24073-05-12 14:24 G	10513674.90	10513675.10	10513675.32	0.0088	0.0055	*
Earth	24074-05-15 00:14 G	10514042.34	10514042.51	10514042.72	0.0088	0.0059	
Moon	24074-05-15 00:28 G	10514042.36	10514042.52	10514042.73	0.0088	0.0059	*
Moon	24075-05-17 10:04 G	10514409.76	10514409.92	10514410.12	0.0088	0.0065	
Earth	24075-05-17 11:31 G	10514409.81	10514409.98	10514410.17	0.0088	0.0064	*
Earth	24076-05-18 22:19 G	10514777.29	10514777.43	10514777.62	0.0088	0.0069	
Moon	24076-05-19 01:26 G	10514777.40	10514777.56	10514777.72	0.0088	0.0068	*
Moon	24077-05-21 06:43 G	10515144.64	10515144.78	10515144.94	0.0088	0.0073	
Earth	24077-05-21 10:04 G	10515144.78	10515144.92	10515145.07	0.0088	0.0073	*
Earth	24078-05-23 20:38 G	10515512.26	10515512.36	10515512.51	0.0088	0.0078	
Moon	24078-05-24 00:28 G	10515512.40	10515512.52	10515512.66	0.0088	0.0076	*
Moon	24079-05-26 04:33 G	10515879.62	10515879.69	10515879.80	0.0088	0.0082	
Earth	24079-05-26 08:09 G	10515879.76	10515879.84	10515879.96	0.0088	0.0082	*
Earth	24080-05-27 19:26 G	10516247.27	10516247.31	10516247.39	0.0088	0.0086	

Moon	24080-05-27 22:04 G	10516247.38	10516247.42	10516247.53	0.0088	0.0085 *
Venus	24092-06-10 11:45 G	10520643.92	10520643.99	10520644.10	0.0089	0.0081
Venus	24093-01-22 00:57 G	10520869.39	10520869.54	10520869.71	0.0089	0.0061
Venus	24093-09-04 13:55 G	10521094.90	10521095.08	10521095.29	0.0089	0.0042
Venus	24094-04-18 03:21 G	10521320.44	10521320.64	10521320.86	0.0089	0.0022
Venus	24094-11-29 16:33 G	10521545.98	10521546.19	10521546.42	0.0089	0.0003
Venus	24095-07-13 05:31 G	10521771.53	10521771.73	10521771.96	0.0089	0.0018
Venus	24096-02-23 18:43 G	10521997.09	10521997.28	10521997.49	0.0089	0.0037
Venus	24096-10-06 07:40 G	10522222.67	10522222.82	10522223.01	0.0089	0.0057
Venus	24097-05-19 20:52 G	10522448.28	10522448.37	10522448.50	0.0089	0.0077
Mercury	24104-01-03 01:12 G	10524866.52	10524866.55	10524866.62	0.0089	0.0086
Mercury	24104-03-31 04:04 G	10524954.60	10524954.67	10524954.78	0.0089	0.0076
Mercury	24104-06-27 06:43 G	10525042.69	10525042.78	10525042.91	0.0089	0.0068
Mercury	24104-09-23 09:50 G	10525130.78	10525130.91	10525131.05	0.0089	0.0058
Mercury	24104-12-20 12:43 G	10525218.88	10525219.03	10525219.17	0.0089	0.0049
Mercury	24105-03-18 15:21 G	10525306.99	10525307.14	10525307.29	0.0089	0.0040
Mercury	24105-06-14 18:00 G	10525395.09	10525395.25	10525395.41	0.0089	0.0031
Mercury	24105-09-10 20:38 G	10525483.20	10525483.36	10525483.53	0.0089	0.0022
Mercury	24105-12-07 23:16 G	10525571.31	10525571.47	10525571.64	0.0089	0.0013
Mercury	24106-03-06 01:55 G	10525659.41	10525659.58	10525659.76	0.0089	0.0005
Mercury	24106-06-02 04:33 G	10525747.52	10525747.69	10525747.86	0.0089	0.0006
Mercury	24106-08-29 07:12 G	10525835.64	10525835.80	10525835.97	0.0089	0.0014
Mercury	24106-11-25 09:36 G	10525923.75	10525923.90	10525924.08	0.0089	0.0024
Mercury	24107-02-21 12:28 G	10526011.86	10526012.02	10526012.18	0.0089	0.0032
Mercury	24107-05-20 14:52 G	10526099.98	10526100.12	10526100.28	0.0089	0.0041
Mercury	24107-08-16 17:31 G	10526188.10	10526188.23	10526188.38	0.0089	0.0049
Mercury	24107-11-12 20:09 G	10526276.22	10526276.34	10526276.47	0.0089	0.0058
Mercury	24108-02-08 22:33 G	10526364.34	10526364.44	10526364.56	0.0089	0.0067
Mercury	24108-05-07 00:57 G	10526452.47	10526452.54	10526452.65	0.0089	0.0075
Mercury	24108-08-03 03:36 G	10526540.61	10526540.65	10526540.72	0.0089	0.0084

Jupiter	24123-05-25 14:24 G	10531948.70	10531949.10	10531949.58	0.0090	0.0048
Moon	24126-09-10 18:00 G	10533153.18	10533153.25	10533153.35	0.0090	0.0084
Earth	24126-09-10 20:38 G	10533153.35	10533153.36	10533153.43	0.0090	0.0089 *
Earth	24127-09-13 10:04 G	10533520.85	10533520.92	10533521.03	0.0090	0.0084
Moon	24127-09-13 12:00 G	10533520.96	10533521.00	10533521.06	0.0090	0.0088 *
Moon	24128-09-14 22:19 G	10533888.31	10533888.43	10533888.57	0.0090	0.0076
Earth	24128-09-14 23:02 G	10533888.37	10533888.46	10533888.60	0.0090	0.0080 *
Moon	24129-09-17 12:00 G	10534255.89	10534256.00	10534256.14	0.0090	0.0079
Earth	24129-09-17 12:14 G	10534255.89	10534256.01	10534256.17	0.0090	0.0075 *
Earth	24130-09-20 01:40 G	10534623.41	10534623.57	10534623.73	0.0090	0.0070
Moon	24130-09-20 02:38 G	10534623.48	10534623.61	10534623.81	0.0090	0.0067 *
Moon	24131-09-22 12:14 G	10534990.86	10534991.01	10534991.20	0.0090	0.0069
Earth	24131-09-22 14:52 G	10534990.95	10534991.12	10534991.30	0.0090	0.0065 *
Earth	24132-09-24 03:21 G	10535358.47	10535358.64	10535358.85	0.0090	0.0061
Moon	24132-09-24 06:43 G	10535358.60	10535358.78	10535358.99	0.0090	0.0057 *
Moon	24133-09-26 12:57 G	10535725.87	10535726.04	10535726.25	0.0090	0.0060
Earth	24133-09-26 16:33 G	10535726.01	10535726.19	10535726.41	0.0090	0.0056 *
Earth	24134-09-29 05:31 G	10536093.54	10536093.73	10536093.97	0.0090	0.0051
Moon	24134-09-29 09:36 G	10536093.68	10536093.90	10536094.12	0.0090	0.0047 *
Moon	24135-10-01 15:50 G	10536460.96	10536461.16	10536461.39	0.0090	0.0049
Earth	24135-10-01 19:12 G	10536461.09	10536461.30	10536461.53	0.0090	0.0045 *
Earth	24136-10-03 08:09 G	10536828.62	10536828.84	10536829.09	0.0090	0.0040
Moon	24136-10-03 10:19 G	10536828.70	10536828.93	10536829.19	0.0090	0.0037 *
Moon	24137-10-05 20:09 G	10537196.11	10537196.34	10537196.56	0.0090	0.0037
Earth	24137-10-05 21:07 G	10537196.16	10537196.38	10537196.64	0.0090	0.0035 *
Moon	24138-10-08 10:33 G	10537563.69	10537563.94	10537564.20	0.0090	0.0026
Earth	24138-10-08 10:33 G	10537563.70	10537563.94	10537564.19	0.0090	0.0029 *
Earth	24139-10-10 23:31 G	10537931.24	10537931.48	10537931.74	0.0090	0.0024
Moon	24139-10-11 00:43 G	10537931.30	10537931.53	10537931.78	0.0090	0.0027 *
Moon	24140-10-12 10:19 G	10538298.68	10538298.93	10538299.20	0.0090	0.0016

Earth	24140-10-12 12:14 G	10538298.77	10538299.01	10538299.27	0.0090	0.0018	*
Earth	24141-10-15 01:12 G	10538666.30	10538666.55	10538666.81	0.0090	0.0013	
Moon	24141-10-15 04:04 G	10538666.43	10538666.67	10538666.93	0.0090	0.0016	*
Moon	24142-10-17 10:33 G	10539033.68	10539033.94	10539034.20	0.0089	0.0004	
Earth	24142-10-17 14:09 G	10539033.83	10539034.09	10539034.35	0.0089	0.0007	*
Earth	24143-10-20 02:52 G	10539401.36	10539401.62	10539401.88	0.0089	0.0002	
Moon	24143-10-20 06:28 G	10539401.51	10539401.77	10539402.03	0.0089	0.0003	*
Mars	24144-02-20 16:48 G	10539524.95	10539525.20	10539525.49	0.0089	0.0030	
Moon	24144-10-21 12:14 G	10539768.76	10539769.01	10539769.27	0.0089	0.0006	
Earth	24144-10-21 15:36 G	10539768.90	10539769.15	10539769.41	0.0089	0.0004	*
Earth	24145-10-24 04:04 G	10540136.42	10540136.67	10540136.94	0.0089	0.0010	
Moon	24145-10-24 06:43 G	10540136.51	10540136.78	10540137.04	0.0089	0.0007	*
Mars	24146-01-14 04:48 G	10540218.45	10540218.70	10540218.95	0.0089	0.0041	
Moon	24146-10-26 15:07 G	10540503.89	10540504.13	10540504.38	0.0089	0.0016	
Earth	24146-10-26 17:02 G	10540503.96	10540504.21	10540504.47	0.0089	0.0015	*
Earth	24147-10-29 05:45 G	10540871.49	10540871.74	10540872.00	0.0089	0.0020	
Moon	24147-10-29 06:00 G	10540871.50	10540871.75	10540872.02	0.0089	0.0019	*
Earth	24148-10-30 18:14 G	10541239.02	10541239.26	10541239.52	0.0089	0.0026	
Moon	24148-10-30 19:12 G	10541239.08	10541239.30	10541239.55	0.0089	0.0028	*
Moon	24149-11-02 05:31 G	10541606.48	10541606.73	10541606.98	0.0089	0.0030	
Earth	24149-11-02 06:57 G	10541606.56	10541606.79	10541607.04	0.0089	0.0031	*
Earth	24150-11-04 19:26 G	10541974.09	10541974.31	10541974.56	0.0089	0.0037	
Moon	24150-11-04 22:48 G	10541974.23	10541974.45	10541974.68	0.0089	0.0038	*
Moon	24151-11-07 04:33 G	10542341.48	10542341.69	10542341.94	0.0089	0.0040	
Earth	24151-11-07 08:09 G	10542341.62	10542341.84	10542342.08	0.0089	0.0042	*
Earth	24152-11-08 20:38 G	10542709.15	10542709.36	10542709.59	0.0089	0.0047	
Moon	24152-11-09 00:00 G	10542709.30	10542709.50	10542709.74	0.0089	0.0047	*
Moon	24153-11-11 05:16 G	10543076.53	10543076.72	10543076.95	0.0089	0.0051	
Earth	24153-11-11 08:38 G	10543076.67	10543076.86	10543077.09	0.0089	0.0052	*
Earth	24154-11-13 20:52 G	10543444.20	10543444.37	10543444.59	0.0089	0.0057	

Moon	24154-11-13 23:45 G	10543444.30	10543444.49	10543444.71	0.0089	0.0057 *
Moon	24155-11-16 07:12 G	10543811.65	10543811.80	10543812.00	0.0089	0.0062
Earth	24155-11-16 09:07 G	10543811.72	10543811.88	10543812.09	0.0089	0.0062 *
Earth	24156-11-17 21:36 G	10544179.24	10544179.40	10544179.58	0.0089	0.0067
Moon	24156-11-17 21:36 G	10544179.25	10544179.40	10544179.60	0.0089	0.0067 *
Earth	24157-11-20 09:36 G	10544546.77	10544546.90	10544547.07	0.0089	0.0071
Moon	24157-11-20 10:19 G	10544546.80	10544546.93	10544547.10	0.0089	0.0071 *
Moon	24158-11-22 20:24 G	10544914.22	10544914.35	10544914.50	0.0089	0.0075
Earth	24158-11-22 21:36 G	10544914.30	10544914.40	10544914.56	0.0089	0.0076 *
Earth	24159-11-25 09:50 G	10545281.82	10545281.91	10545282.04	0.0089	0.0080
Moon	24159-11-25 12:57 G	10545281.94	10545282.04	10545282.16	0.0089	0.0080 *
Moon	24160-11-26 18:28 G	10545649.22	10545649.27	10545649.37	0.0089	0.0085
Earth	24160-11-26 21:50 G	10545649.36	10545649.41	10545649.51	0.0089	0.0085 *
Earth	24161-11-29 10:19 G	10546016.93	10546016.93	10546016.95	0.0089	0.0089
Venus	24173-12-16 01:40 G	10550416.45	10550416.57	10550416.72	0.0089	0.0070
Venus	24174-07-29 14:38 G	10550641.94	10550642.11	10550642.30	0.0088	0.0051
Venus	24175-03-12 03:21 G	10550867.45	10550867.64	10550867.86	0.0088	0.0032
Venus	24175-10-23 16:48 G	10551092.98	10551093.20	10551093.42	0.0088	0.0012
Venus	24176-06-05 05:31 G	10551318.52	10551318.73	10551318.95	0.0088	0.0008
Venus	24177-01-16 18:00 G	10551544.06	10551544.25	10551544.48	0.0088	0.0028
Venus	24177-08-30 06:57 G	10551769.61	10551769.79	10551769.99	0.0088	0.0046
Venus	24178-04-12 19:40 G	10551995.19	10551995.32	10551995.48	0.0088	0.0066
Venus	24178-11-24 08:38 G	10552220.81	10552220.86	10552220.93	0.0088	0.0085
Mercury	24185-01-08 01:55 G	10554457.54	10554457.58	10554457.64	0.0088	0.0082
Mercury	24185-04-06 03:36 G	10554545.59	10554545.65	10554545.73	0.0088	0.0075
Mercury	24185-07-03 05:02 G	10554633.64	10554633.71	10554633.82	0.0088	0.0069
Mercury	24185-09-29 07:12 G	10554721.69	10554721.80	10554721.90	0.0088	0.0061
Mercury	24185-12-26 08:38 G	10554809.75	10554809.86	10554809.98	0.0088	0.0054
Mercury	24186-03-24 10:19 G	10554897.81	10554897.93	10554898.06	0.0088	0.0046
Mercury	24186-06-20 12:00 G	10554985.88	10554986.00	10554986.14	0.0088	0.0039

Mercury	24186-09-16 13:40 G	10555073.94	10555074.07	10555074.21	0.0088	0.0032
Mercury	24186-12-13 15:36 G	10555162.01	10555162.15	10555162.29	0.0088	0.0024
Mercury	24187-03-11 17:16 G	10555250.08	10555250.22	10555250.36	0.0088	0.0017
Mercury	24187-06-07 18:57 G	10555338.14	10555338.29	10555338.44	0.0088	0.0010
Mercury	24187-09-03 20:38 G	10555426.21	10555426.36	10555426.51	0.0088	0.0002
Mercury	24187-11-30 22:19 G	10555514.29	10555514.43	10555514.58	0.0088	0.0006
Mercury	24188-02-27 00:00 G	10555602.36	10555602.50	10555602.65	0.0088	0.0013
Mercury	24188-05-25 01:40 G	10555690.44	10555690.57	10555690.72	0.0088	0.0021
Mercury	24188-08-21 03:36 G	10555778.51	10555778.65	10555778.79	0.0088	0.0027
Mercury	24188-11-17 05:16 G	10555866.59	10555866.72	10555866.86	0.0088	0.0035
Mercury	24189-02-13 07:12 G	10555954.67	10555954.80	10555954.93	0.0088	0.0042
Mercury	24189-05-12 08:38 G	10556042.75	10556042.86	10556042.99	0.0088	0.0050
Mercury	24189-08-08 10:33 G	10556130.84	10556130.94	10556131.06	0.0088	0.0057
Mercury	24189-11-04 12:14 G	10556218.92	10556219.01	10556219.12	0.0088	0.0065
Mercury	24190-01-31 14:24 G	10556307.01	10556307.10	10556307.18	0.0088	0.0072
Mercury	24190-04-29 15:50 G	10556395.11	10556395.16	10556395.23	0.0088	0.0080
Mercury	24190-07-26 17:45 G	10556483.24	10556483.24	10556483.26	0.0088	0.0088
Earth	24209-03-13 13:12 G	10563287.02	10563287.05	10563287.13	0.0088	0.0086
Moon	24209-03-13 14:52 G	10563287.05	10563287.12	10563287.24	0.0088	0.0082 *
Earth	24210-03-16 00:00 G	10563654.41	10563654.50	10563654.60	0.0088	0.0081
Moon	24210-03-15 23:02 G	10563654.43	10563654.46	10563654.54	0.0088	0.0086 *
Moon	24211-03-18 08:09 G	10564021.72	10564021.84	10564022.01	0.0088	0.0074
Earth	24211-03-18 09:50 G	10564021.80	10564021.91	10564022.05	0.0088	0.0077 *
Earth	24212-03-19 19:55 G	10564389.21	10564389.33	10564389.50	0.0088	0.0073
Moon	24212-03-19 21:50 G	10564389.32	10564389.41	10564389.56	0.0088	0.0077 *
Moon	24213-03-22 03:21 G	10564756.48	10564756.64	10564756.83	0.0088	0.0064
Earth	24213-03-22 06:43 G	10564756.62	10564756.78	10564756.94	0.0088	0.0068 *
Earth	24214-03-24 16:19 G	10565124.03	10565124.18	10565124.38	0.0088	0.0064
Moon	24214-03-24 19:55 G	10565124.19	10565124.33	10565124.52	0.0088	0.0068 *
Moon	24215-03-26 23:31 G	10565491.30	10565491.48	10565491.69	0.0088	0.0055

Earth	24215-03-27 02:52 G	10565491.45	10565491.62	10565491.83	0.0088	0.0059	*
Earth	24216-03-28 13:12 G	10565858.86	10565859.05	10565859.26	0.0088	0.0054	
Moon	24216-03-28 16:04 G	10565859.00	10565859.17	10565859.39	0.0088	0.0059	*
Moon	24217-03-30 21:21 G	10566226.19	10566226.39	10566226.62	0.0088	0.0046	
Earth	24217-03-30 23:02 G	10566226.27	10566226.46	10566226.70	0.0088	0.0050	*
Earth	24218-04-02 09:21 G	10566593.69	10566593.89	10566594.13	0.0088	0.0045	
Moon	24218-04-02 10:48 G	10566593.74	10566593.95	10566594.18	0.0088	0.0048	*
Earth	24219-04-04 19:26 G	10566961.10	10566961.31	10566961.56	0.0088	0.0040	
Moon	24219-04-04 19:26 G	10566961.11	10566961.31	10566961.56	0.0088	0.0036	*
Moon	24220-04-06 04:04 G	10567328.45	10567328.67	10567328.92	0.0088	0.0038	
Earth	24220-04-06 05:45 G	10567328.53	10567328.74	10567329.00	0.0088	0.0035	*
Earth	24221-04-08 16:04 G	10567695.95	10567696.17	10567696.43	0.0088	0.0030	
Moon	24221-04-08 18:28 G	10567696.05	10567696.27	10567696.53	0.0088	0.0026	*
Moon	24222-04-10 23:02 G	10568063.23	10568063.46	10568063.73	0.0088	0.0029	
Earth	24222-04-11 02:38 G	10568063.37	10568063.61	10568063.87	0.0088	0.0024	*
Earth	24223-04-13 13:12 G	10568430.80	10568431.05	10568431.30	0.0088	0.0019	
Moon	24223-04-13 16:33 G	10568430.95	10568431.19	10568431.45	0.0088	0.0015	*
Moon	24224-04-14 20:24 G	10568798.10	10568798.35	10568798.60	0.0088	0.0018	
Earth	24224-04-14 23:31 G	10568798.24	10568798.48	10568798.74	0.0088	0.0014	*
Earth	24225-04-17 10:04 G	10569165.67	10569165.92	10569166.18	0.0088	0.0009	
Moon	24225-04-17 13:26 G	10569165.79	10569166.06	10569166.32	0.0088	0.0004	*
Mars	24225-12-23 00:43 G	10569415.39	10569415.53	10569415.74	0.0088	0.0076	
Moon	24226-04-19 19:12 G	10569533.06	10569533.30	10569533.55	0.0088	0.0008	
Earth	24226-04-19 20:52 G	10569533.11	10569533.37	10569533.63	0.0088	0.0003	*
Earth	24227-04-22 07:26 G	10569900.55	10569900.81	10569901.06	0.0088	0.0002	
Moon	24227-04-22 08:09 G	10569900.57	10569900.84	10569901.11	0.0088	0.0006	*
Mars	24227-11-19 13:26 G	10570111.72	10570112.06	10570112.42	0.0088	0.0007	
Earth	24228-04-23 17:45 G	10570267.99	10570268.24	10570268.51	0.0088	0.0008	
Moon	24228-04-23 18:28 G	10570268.02	10570268.27	10570268.52	0.0088	0.0003	*
Moon	24229-04-26 02:09 G	10570635.34	10570635.59	10570635.86	0.0088	0.0017	

Earth	24229-04-26 04:33 G	10570635.44	10570635.69	10570635.95	0.0088	0.0013	*
Earth	24230-04-28 14:52 G	10571002.88	10571003.12	10571003.38	0.0088	0.0018	
Moon	24230-04-28 17:31 G	10571002.99	10571003.23	10571003.49	0.0088	0.0014	*
Moon	24231-04-30 22:04 G	10571370.18	10571370.42	10571370.68	0.0088	0.0028	
Earth	24231-05-01 01:40 G	10571370.33	10571370.57	10571370.83	0.0088	0.0023	*
Earth	24232-05-02 12:28 G	10571737.78	10571738.02	10571738.26	0.0088	0.0028	
Moon	24232-05-02 15:50 G	10571737.92	10571738.16	10571738.42	0.0088	0.0024	*
Moon	24233-05-04 19:40 G	10572105.10	10572105.32	10572105.56	0.0088	0.0038	
Earth	24233-05-04 22:48 G	10572105.23	10572105.45	10572105.71	0.0088	0.0034	*
Earth	24234-05-07 09:36 G	10572472.68	10572472.90	10572473.14	0.0088	0.0039	
Moon	24234-05-07 12:28 G	10572472.79	10572473.02	10572473.28	0.0088	0.0034	*
Moon	24235-05-09 19:12 G	10572840.10	10572840.30	10572840.52	0.0088	0.0048	
Earth	24235-05-09 20:24 G	10572840.14	10572840.35	10572840.59	0.0088	0.0044	*
Earth	24236-05-11 07:12 G	10573207.61	10573207.80	10573208.03	0.0088	0.0050	
Moon	24236-05-11 07:40 G	10573207.61	10573207.82	10573208.07	0.0088	0.0045	*
Earth	24237-05-13 18:14 G	10573575.08	10573575.26	10573575.48	0.0088	0.0054	
Moon	24237-05-13 18:57 G	10573575.13	10573575.29	10573575.50	0.0088	0.0059	*
Moon	24238-05-16 03:07 G	10573942.43	10573942.63	10573942.85	0.0088	0.0055	
Earth	24238-05-16 05:16 G	10573942.55	10573942.72	10573942.93	0.0088	0.0059	*
Earth	24239-05-18 16:04 G	10574310.03	10574310.17	10574310.38	0.0088	0.0065	
Moon	24239-05-18 19:12 G	10574310.16	10574310.30	10574310.47	0.0088	0.0068	*
Moon	24240-05-19 23:45 G	10574677.34	10574677.49	10574677.70	0.0088	0.0065	
Earth	24240-05-20 04:04 G	10574677.51	10574677.67	10574677.83	0.0088	0.0069	*
Earth	24241-05-22 14:38 G	10575044.99	10575045.11	10575045.27	0.0088	0.0074	
Moon	24241-05-22 18:00 G	10575045.16	10575045.25	10575045.40	0.0088	0.0078	*
Moon	24242-05-24 23:02 G	10575412.33	10575412.46	10575412.60	0.0088	0.0074	
Earth	24242-05-25 01:40 G	10575412.48	10575412.57	10575412.72	0.0088	0.0079	*
Earth	24243-05-27 12:57 G	10575779.97	10575780.04	10575780.15	0.0088	0.0083	
Moon	24243-05-27 15:21 G	10575780.13	10575780.14	10575780.22	0.0088	0.0088	*
Moon	24244-05-28 23:31 G	10576147.41	10576147.48	10576147.57	0.0088	0.0083	



Earth	24244-05-29 00:00 G	10576147.49	10576147.50	10576147.58	0.0088	0.0088 *
Venus	24257-04-27 08:09 G	10580863.73	10580863.84	10580863.98	0.0089	0.0072
Venus	24257-12-08 21:07 G	10581089.22	10581089.38	10581089.58	0.0089	0.0053
Venus	24258-07-22 10:33 G	10581314.74	10581314.94	10581315.15	0.0089	0.0033
Venus	24259-03-04 23:31 G	10581540.27	10581540.48	10581540.71	0.0089	0.0014
Venus	24259-10-16 12:43 G	10581765.82	10581766.03	10581766.26	0.0089	0.0007
Venus	24260-05-29 01:55 G	10581991.37	10581991.58	10581991.79	0.0089	0.0026
Venus	24261-01-09 14:38 G	10582216.94	10582217.11	10582217.32	0.0089	0.0046
Venus	24261-08-23 04:04 G	10582442.53	10582442.67	10582442.83	0.0089	0.0065
Venus	24262-04-05 17:02 G	10582668.17	10582668.21	10582668.29	0.0089	0.0085
Mercury	24268-09-29 22:48 G	10585037.42	10585037.45	10585037.52	0.0089	0.0085
Mercury	24268-12-27 01:40 G	10585125.50	10585125.57	10585125.68	0.0089	0.0076
Mercury	24269-03-25 04:48 G	10585213.59	10585213.70	10585213.81	0.0089	0.0067
Mercury	24269-06-21 07:26 G	10585301.68	10585301.81	10585301.94	0.0089	0.0058
Mercury	24269-09-17 10:04 G	10585389.78	10585389.92	10585390.07	0.0089	0.0049
Mercury	24269-12-14 12:57 G	10585477.89	10585478.04	10585478.19	0.0089	0.0039
Mercury	24270-03-12 15:36 G	10585565.99	10585566.15	10585566.31	0.0089	0.0030
Mercury	24270-06-08 18:14 G	10585654.10	10585654.26	10585654.43	0.0089	0.0022
Mercury	24270-09-04 21:07 G	10585742.21	10585742.38	10585742.55	0.0089	0.0013
Mercury	24270-12-01 23:45 G	10585830.32	10585830.49	10585830.66	0.0089	0.0004
Mercury	24271-02-28 02:24 G	10585918.43	10585918.60	10585918.77	0.0089	0.0006
Mercury	24271-05-27 04:48 G	10586006.54	10586006.70	10586006.88	0.0089	0.0015
Mercury	24271-08-23 07:26 G	10586094.65	10586094.81	10586094.98	0.0089	0.0023
Mercury	24271-11-19 09:50 G	10586182.77	10586182.91	10586183.08	0.0089	0.0033
Mercury	24272-02-15 12:43 G	10586270.88	10586271.03	10586271.18	0.0089	0.0041
Mercury	24272-05-13 15:07 G	10586359.00	10586359.13	10586359.28	0.0089	0.0050
Mercury	24272-08-09 17:45 G	10586447.12	10586447.24	10586447.38	0.0089	0.0058
Mercury	24272-11-05 20:24 G	10586535.25	10586535.35	10586535.47	0.0089	0.0067
Mercury	24273-02-01 22:48 G	10586623.37	10586623.45	10586623.55	0.0089	0.0075
Mercury	24273-05-01 01:12 G	10586711.51	10586711.55	10586711.62	0.0089	0.0084

Jupiter	24289-07-20 16:33 G	10592635.69	10592636.19	10592636.73	0.0090	0.0011
Earth	24291-09-13 12:14 G	10593420.99	10593421.01	10593421.04	0.0090	0.0089
Moon	24291-09-13 12:14 G	10593421.00	10593421.01	10593421.06	0.0090	0.0089 *
Moon	24292-09-14 23:45 G	10593788.42	10593788.49	10593788.59	0.0090	0.0085
Earth	24292-09-15 00:43 G	10593788.48	10593788.53	10593788.64	0.0090	0.0085 *
Earth	24293-09-17 14:09 G	10594155.99	10594156.09	10594156.22	0.0090	0.0080
Moon	24293-09-17 16:04 G	10594156.08	10594156.17	10594156.31	0.0090	0.0079 *
Moon	24294-09-19 23:45 G	10594523.38	10594523.49	10594523.66	0.0090	0.0076
Earth	24294-09-20 03:36 G	10594523.52	10594523.65	10594523.80	0.0090	0.0075 *
Earth	24295-09-22 16:33 G	10594891.04	10594891.19	10594891.36	0.0090	0.0070
Moon	24295-09-22 19:40 G	10594891.18	10594891.32	10594891.51	0.0090	0.0069 *
Moon	24296-09-24 02:09 G	10595258.43	10595258.59	10595258.77	0.0090	0.0067
Earth	24296-09-24 05:45 G	10595258.57	10595258.74	10595258.93	0.0090	0.0065 *
Earth	24297-09-26 18:43 G	10595626.10	10595626.28	10595626.48	0.0090	0.0060
Moon	24297-09-26 22:04 G	10595626.23	10595626.42	10595626.62	0.0090	0.0058 *
Moon	24298-09-29 05:31 G	10595993.55	10595993.73	10595993.94	0.0090	0.0057
Earth	24298-09-29 07:55 G	10595993.64	10595993.83	10595994.05	0.0090	0.0055 *
Earth	24299-10-01 20:52 G	10596361.18	10596361.37	10596361.61	0.0090	0.0050
Moon	24299-10-01 22:48 G	10596361.24	10596361.45	10596361.70	0.0090	0.0047 *
Earth	24300-10-04 10:04 G	10596728.71	10596728.92	10596729.16	0.0090	0.0044
Moon	24300-10-04 10:04 G	10596728.72	10596728.92	10596729.15	0.0090	0.0046 *
Moon	24301-10-06 22:48 G	10597096.21	10597096.45	10597096.70	0.0090	0.0036
Earth	24301-10-06 23:16 G	10597096.25	10597096.47	10597096.72	0.0090	0.0039 *
Earth	24302-10-09 12:43 G	10597463.80	10597464.03	10597464.28	0.0090	0.0033
Moon	24302-10-09 14:38 G	10597463.88	10597464.11	10597464.34	0.0090	0.0036 *
Moon	24303-10-11 23:02 G	10597831.20	10597831.46	10597831.71	0.0090	0.0025
Earth	24303-10-12 01:40 G	10597831.34	10597831.57	10597831.83	0.0090	0.0028 *
Earth	24304-10-13 14:52 G	10598198.88	10598199.12	10598199.38	0.0090	0.0022
Moon	24304-10-13 18:00 G	10598199.02	10598199.25	10598199.51	0.0090	0.0025 *
Moon	24305-10-16 00:14 G	10598566.26	10598566.51	10598566.77	0.0090	0.0013

Earth	24305-10-16 04:04 G	10598566.42	10598566.67	10598566.93	0.0090	0.0016	*
Earth	24306-10-18 16:48 G	10598933.95	10598934.20	10598934.46	0.0090	0.0010	
Moon	24306-10-18 20:09 G	10598934.09	10598934.34	10598934.60	0.0090	0.0013	*
Mars	24307-10-08 00:28 G	10599288.31	10599288.52	10599288.74	0.0089	0.0057	
Moon	24307-10-21 03:07 G	10599301.38	10599301.63	10599301.88	0.0089	0.0001	
Earth	24307-10-21 05:45 G	10599301.49	10599301.74	10599302.00	0.0089	0.0005	*
Earth	24308-10-22 18:28 G	10599669.01	10599669.27	10599669.53	0.0089	0.0001	
Moon	24308-10-22 20:38 G	10599669.09	10599669.36	10599669.62	0.0089	0.0002	*
Mars	24309-08-31 13:12 G	10599981.77	10599982.05	10599982.34	0.0089	0.0012	
Moon	24309-10-25 06:43 G	10600036.54	10600036.78	10600037.04	0.0089	0.0011	
Earth	24309-10-25 07:12 G	10600036.55	10600036.80	10600037.06	0.0089	0.0007	*
Moon	24310-10-27 19:40 G	10600404.06	10600404.32	10600404.59	0.0089	0.0009	
Earth	24310-10-27 20:09 G	10600404.08	10600404.34	10600404.60	0.0089	0.0013	*
Mars	24311-07-26 00:57 G	10600675.44	10600675.54	10600675.67	0.0089	0.0082	
Earth	24311-10-30 08:38 G	10600771.61	10600771.86	10600772.12	0.0089	0.0018	
Moon	24311-10-30 10:04 G	10600771.69	10600771.92	10600772.17	0.0089	0.0023	*
Moon	24312-10-31 18:28 G	10601139.02	10601139.27	10601139.53	0.0089	0.0021	
Earth	24312-10-31 21:07 G	10601139.15	10601139.38	10601139.65	0.0089	0.0025	*
Earth	24313-11-03 10:04 G	10601506.68	10601506.92	10601507.17	0.0089	0.0030	
Moon	24313-11-03 13:12 G	10601506.82	10601507.05	10601507.29	0.0089	0.0034	*
Moon	24314-11-05 19:12 G	10601874.06	10601874.30	10601874.55	0.0089	0.0031	
Earth	24314-11-05 22:33 G	10601874.22	10601874.44	10601874.70	0.0089	0.0036	*
Earth	24315-11-08 11:31 G	10602241.76	10602241.98	10602242.21	0.0089	0.0041	
Moon	24315-11-08 14:38 G	10602241.90	10602242.11	10602242.35	0.0089	0.0045	*
Moon	24316-11-09 20:38 G	10602609.16	10602609.36	10602609.61	0.0089	0.0043	
Earth	24316-11-09 23:45 G	10602609.29	10602609.49	10602609.73	0.0089	0.0046	*
Earth	24317-11-12 12:14 G	10602976.82	10602977.01	10602977.24	0.0089	0.0052	
Moon	24317-11-12 14:52 G	10602976.92	10602977.12	10602977.33	0.0089	0.0056	*
Moon	24318-11-15 00:00 G	10603344.32	10603344.50	10603344.72	0.0089	0.0053	
Earth	24318-11-15 00:57 G	10603344.35	10603344.54	10603344.75	0.0089	0.0057	*

Earth	24319-11-17 13:12 G	10603711.87	10603712.05	10603712.24	0.0089	0.0062
Moon	24319-11-17 13:12 G	10603711.87	10603712.05	10603712.23	0.0089	0.0066 *
Earth	24320-11-19 00:57 G	10604079.40	10604079.54	10604079.74	0.0089	0.0067
Moon	24320-11-19 02:52 G	10604079.45	10604079.62	10604079.81	0.0089	0.0062 *
Moon	24321-11-21 11:02 G	10604446.82	10604446.96	10604447.10	0.0089	0.0076
Earth	24321-11-21 13:40 G	10604446.93	10604447.07	10604447.23	0.0089	0.0072 *
Earth	24322-11-24 01:40 G	10604814.45	10604814.57	10604814.71	0.0089	0.0077
Moon	24322-11-24 04:19 G	10604814.56	10604814.68	10604814.85	0.0089	0.0073 *
Moon	24323-11-26 09:36 G	10605181.86	10605181.90	10605181.99	0.0089	0.0086
Earth	24323-11-26 13:26 G	10605181.98	10605182.06	10605182.19	0.0089	0.0081 *
Earth	24324-11-28 01:12 G	10605549.52	10605549.55	10605549.65	0.0089	0.0086
Moon	24324-11-28 04:48 G	10605549.62	10605549.70	10605549.83	0.0089	0.0081 *
Venus	24338-03-21 09:50 G	10610410.82	10610410.91	10610411.00	0.0089	0.0080
Venus	24338-11-01 22:33 G	10610636.29	10610636.44	10610636.61	0.0089	0.0061
Venus	24339-06-15 11:31 G	10610861.80	10610861.98	10610862.19	0.0088	0.0042
Venus	24340-01-27 00:28 G	10611087.31	10611087.52	10611087.74	0.0088	0.0022
Venus	24340-09-08 13:26 G	10611312.85	10611313.06	10611313.29	0.0088	0.0004
Venus	24341-04-22 02:24 G	10611538.39	10611538.60	10611538.82	0.0088	0.0017
Venus	24341-12-03 15:07 G	10611763.94	10611764.13	10611764.34	0.0088	0.0036
Venus	24342-07-17 03:50 G	10611989.51	10611989.66	10611989.85	0.0088	0.0056
Venus	24343-02-27 16:48 G	10612215.09	10612215.20	10612215.33	0.0088	0.0075
Mercury	24349-07-10 23:16 G	10614540.47	10614540.47	10614540.47	0.0088	0.0088
Mercury	24349-10-07 00:43 G	10614628.49	10614628.53	10614628.59	0.0088	0.0081
Mercury	24350-01-03 02:24 G	10614716.53	10614716.60	10614716.69	0.0088	0.0074
Mercury	24350-04-01 03:50 G	10614804.58	10614804.66	10614804.77	0.0088	0.0068
Mercury	24350-06-28 06:00 G	10614892.64	10614892.75	10614892.85	0.0088	0.0060
Mercury	24350-09-24 07:26 G	10614980.70	10614980.81	10614980.93	0.0088	0.0052
Mercury	24350-12-21 09:07 G	10615068.76	10615068.88	10615069.01	0.0088	0.0045
Mercury	24351-03-19 10:48 G	10615156.82	10615156.95	10615157.09	0.0088	0.0038
Mercury	24351-06-15 12:28 G	10615244.89	10615245.02	10615245.16	0.0088	0.0031

Mercury	24351-09-11 14:09 G	10615332.95	10615333.09	10615333.23	0.0088	0.0024
Mercury	24351-12-08 15:50 G	10615421.02	10615421.16	10615421.31	0.0088	0.0016
Mercury	24352-03-05 17:45 G	10615509.09	10615509.24	10615509.38	0.0088	0.0009
Mercury	24352-06-01 19:26 G	10615597.16	10615597.31	10615597.45	0.0088	0.0002
Mercury	24352-08-28 21:07 G	10615685.23	10615685.38	10615685.53	0.0088	0.0006
Mercury	24352-11-24 22:48 G	10615773.31	10615773.45	10615773.60	0.0088	0.0013
Mercury	24353-02-21 00:28 G	10615861.38	10615861.52	10615861.67	0.0088	0.0021
Mercury	24353-05-20 02:24 G	10615949.46	10615949.60	10615949.74	0.0088	0.0028
Mercury	24353-08-16 03:50 G	10616037.54	10616037.66	10616037.81	0.0088	0.0036
Mercury	24353-11-12 05:45 G	10616125.62	10616125.74	10616125.87	0.0088	0.0043
Mercury	24354-02-08 07:26 G	10616213.70	10616213.81	10616213.94	0.0088	0.0051
Mercury	24354-05-07 09:21 G	10616301.78	10616301.89	10616302.00	0.0088	0.0058
Mercury	24354-08-03 10:48 G	10616389.87	10616389.95	10616390.06	0.0088	0.0066
Mercury	24354-10-30 12:57 G	10616477.96	10616478.04	10616478.12	0.0088	0.0073
Mercury	24355-01-26 14:24 G	10616566.06	10616566.10	10616566.17	0.0088	0.0081
Moon	24373-03-13 21:07 G	10623187.38	10623187.38	10623187.39	0.0088	0.0088
Earth	24374-03-16 06:28 G	10623554.74	10623554.77	10623554.83	0.0088	0.0086
Earth	24375-03-18 16:33 G	10623922.12	10623922.19	10623922.30	0.0088	0.0082
Moon	24375-03-18 19:12 G	10623922.22	10623922.30	10623922.44	0.0088	0.0079 *
Moon	24376-03-19 23:16 G	10624289.40	10624289.47	10624289.60	0.0088	0.0081
Earth	24376-03-20 02:24 G	10624289.52	10624289.60	10624289.75	0.0088	0.0078 *
Earth	24377-03-22 12:57 G	10624656.91	10624657.04	10624657.20	0.0088	0.0073
Moon	24377-03-22 16:19 G	10624657.06	10624657.18	10624657.36	0.0088	0.0071 *
Moon	24378-03-24 19:40 G	10625024.21	10625024.32	10625024.50	0.0088	0.0072
Earth	24378-03-24 23:16 G	10625024.33	10625024.47	10625024.65	0.0088	0.0068 *
Earth	24379-03-27 09:50 G	10625391.74	10625391.91	10625392.09	0.0088	0.0063
Moon	24379-03-27 12:00 G	10625391.83	10625392.00	10625392.21	0.0088	0.0061 *
Moon	24380-03-28 18:00 G	10625759.09	10625759.25	10625759.45	0.0088	0.0061
Earth	24380-03-28 20:09 G	10625759.15	10625759.34	10625759.54	0.0088	0.0058 *
Moon	24381-03-31 06:43 G	10626126.56	10626126.78	10626127.00	0.0088	0.0050

Earth	24381-03-31 06:00 G	10626126.57	10626126.75	10626126.98	0.0088	0.0054	*
Earth	24382-04-02 16:33 G	10626493.98	10626494.19	10626494.41	0.0088	0.0048	
Moon	24382-04-02 17:16 G	10626494.03	10626494.22	10626494.44	0.0088	0.0051	*
Moon	24383-04-05 00:28 G	10626861.31	10626861.52	10626861.78	0.0088	0.0041	
Earth	24383-04-05 02:52 G	10626861.40	10626861.62	10626861.85	0.0088	0.0043	*
Earth	24384-04-06 12:43 G	10627228.82	10627229.03	10627229.28	0.0088	0.0038	
Moon	24384-04-06 16:04 G	10627228.96	10627229.17	10627229.40	0.0088	0.0041	*
Moon	24385-04-08 19:40 G	10627596.09	10627596.32	10627596.57	0.0088	0.0030	
Earth	24385-04-08 23:02 G	10627596.24	10627596.46	10627596.71	0.0088	0.0033	*
Earth	24386-04-11 09:36 G	10627963.65	10627963.90	10627964.14	0.0088	0.0027	
Moon	24386-04-11 13:12 G	10627963.81	10627964.05	10627964.29	0.0088	0.0029	*
Moon	24387-04-13 16:48 G	10628330.95	10628331.20	10628331.45	0.0088	0.0019	
Earth	24387-04-13 19:40 G	10628331.08	10628331.32	10628331.58	0.0088	0.0022	*
Earth	24388-04-15 06:00 G	10628698.50	10628698.75	10628699.01	0.0088	0.0017	
Moon	24388-04-15 08:09 G	10628698.59	10628698.84	10628699.11	0.0088	0.0019	*
Moon	24389-04-17 14:52 G	10629065.88	10629066.12	10629066.38	0.0088	0.0010	
Earth	24389-04-17 16:33 G	10629065.93	10629066.19	10629066.45	0.0088	0.0011	*
Moon	24390-04-20 02:38 G	10629433.34	10629433.61	10629433.87	0.0088	0.0008	
Earth	24390-04-20 02:52 G	10629433.36	10629433.62	10629433.88	0.0088	0.0006	*
Earth	24391-04-22 13:26 G	10629800.80	10629801.06	10629801.32	0.0088	0.0000	
Moon	24391-04-22 14:52 G	10629800.87	10629801.12	10629801.37	0.0088	0.0002	*
Mars	24391-07-03 11:31 G	10629872.65	10629872.98	10629873.32	0.0088	0.0026	
Moon	24392-04-23 21:50 G	10630168.15	10630168.41	10630168.67	0.0088	0.0003	
Earth	24392-04-24 00:00 G	10630168.25	10630168.50	10630168.76	0.0088	0.0005	*
Earth	24393-04-26 10:19 G	10630535.68	10630535.93	10630536.19	0.0088	0.0011	
Moon	24393-04-26 13:55 G	10630535.83	10630536.08	10630536.33	0.0088	0.0013	*
Mars	24393-05-29 23:02 G	10630569.19	10630569.46	10630569.73	0.0088	0.0055	
Moon	24394-04-28 17:31 G	10630902.99	10630903.23	10630903.50	0.0088	0.0014	
Earth	24394-04-28 21:07 G	10630903.13	10630903.38	10630903.64	0.0088	0.0016	*
Earth	24395-05-01 07:26 G	10631270.57	10631270.81	10631271.07	0.0088	0.0022	

Moon	24395-05-01 11:02 G	10631270.72	10631270.96	10631271.22	0.0088	0.0023	*
Moon	24396-05-02 15:21 G	10631637.91	10631638.14	10631638.39	0.0088	0.0025	
Earth	24396-05-02 18:14 G	10631638.02	10631638.26	10631638.51	0.0088	0.0027	*
Earth	24397-05-05 05:02 G	10632005.47	10632005.71	10632005.95	0.0088	0.0032	
Moon	24397-05-05 06:28 G	10632005.55	10632005.77	10632006.04	0.0088	0.0034	*
Moon	24398-05-07 13:55 G	10632372.88	10632373.08	10632373.33	0.0088	0.0037	
Earth	24398-05-07 15:07 G	10632372.92	10632373.13	10632373.38	0.0088	0.0038	*
Moon	24399-05-10 01:12 G	10632740.34	10632740.55	10632740.80	0.0088	0.0045	
Earth	24399-05-10 01:55 G	10632740.37	10632740.58	10632740.82	0.0088	0.0043	*
Earth	24400-05-11 12:57 G	10633107.83	10633108.04	10633108.26	0.0088	0.0048	
Moon	24400-05-11 14:24 G	10633107.90	10633108.10	10633108.32	0.0088	0.0047	*
Moon	24401-05-13 20:38 G	10633475.18	10633475.36	10633475.60	0.0088	0.0055	
Earth	24401-05-13 23:45 G	10633475.29	10633475.49	10633475.70	0.0088	0.0053	*
Earth	24402-05-16 10:04 G	10633842.76	10633842.92	10633843.14	0.0088	0.0059	
Moon	24402-05-16 13:55 G	10633842.90	10633843.08	10633843.29	0.0088	0.0057	*
Moon	24403-05-18 18:00 G	10634210.10	10634210.25	10634210.44	0.0088	0.0065	
Earth	24403-05-18 21:21 G	10634210.24	10634210.39	10634210.59	0.0088	0.0064	*
Earth	24404-05-20 08:09 G	10634577.71	10634577.84	10634578.03	0.0088	0.0070	
Moon	24404-05-20 12:00 G	10634577.86	10634578.00	10634578.19	0.0088	0.0069	*
Moon	24405-05-22 17:02 G	10634945.11	10634945.21	10634945.37	0.0088	0.0076	
Earth	24405-05-22 19:55 G	10634945.20	10634945.33	10634945.48	0.0088	0.0074	*
Earth	24406-05-25 06:57 G	10635312.69	10635312.79	10635312.92	0.0088	0.0079	
Moon	24406-05-25 09:07 G	10635312.76	10635312.88	10635313.01	0.0088	0.0078	*
Moon	24407-05-27 17:02 G	10635680.17	10635680.21	10635680.32	0.0088	0.0084	
Earth	24407-05-27 18:00 G	10635680.19	10635680.25	10635680.36	0.0088	0.0084	*
Moon	24408-05-29 04:19 G	10636047.65	10636047.68	10636047.76	0.0088	0.0087	
Earth	24408-05-29 05:45 G	10636047.72	10636047.74	10636047.77	0.0088	0.0088	*
Venus	24421-07-30 15:36 G	10640858.10	10640858.15	10640858.25	0.0089	0.0083	
Venus	24422-03-13 05:02 G	10641083.57	10641083.71	10641083.87	0.0089	0.0063	
Venus	24422-10-24 18:00 G	10641309.07	10641309.25	10641309.46	0.0089	0.0044	

Venus	24423-06-07 07:12 G	10641534.60	10641534.80	10641535.02	0.0089	0.0024
Venus	24424-01-18 20:24 G	10641760.13	10641760.35	10641760.57	0.0089	0.0005
Venus	24424-08-31 09:21 G	10641985.68	10641985.89	10641986.11	0.0089	0.0015
Venus	24425-04-13 22:19 G	10642211.24	10642211.43	10642211.65	0.0089	0.0035
Venus	24425-11-25 11:31 G	10642436.82	10642436.98	10642437.17	0.0089	0.0054
Venus	24426-07-09 00:14 G	10642662.41	10642662.51	10642662.66	0.0089	0.0074
Mercury	24433-06-27 20:24 G	10645208.32	10645208.35	10645208.42	0.0089	0.0085
Mercury	24433-09-23 23:31 G	10645296.39	10645296.48	10645296.57	0.0089	0.0076
Mercury	24433-12-21 02:09 G	10645384.48	10645384.59	10645384.71	0.0089	0.0067
Mercury	24434-03-19 04:48 G	10645472.58	10645472.70	10645472.84	0.0089	0.0058
Mercury	24434-06-15 07:40 G	10645560.68	10645560.82	10645560.97	0.0089	0.0048
Mercury	24434-09-11 10:19 G	10645648.79	10645648.93	10645649.09	0.0089	0.0039
Mercury	24434-12-08 13:12 G	10645736.89	10645737.05	10645737.21	0.0089	0.0030
Mercury	24435-03-06 15:50 G	10645825.00	10645825.16	10645825.33	0.0089	0.0021
Mercury	24435-06-02 18:28 G	10645913.11	10645913.27	10645913.45	0.0089	0.0013
Mercury	24435-08-29 21:21 G	10646001.22	10646001.39	10646001.56	0.0089	0.0004
Mercury	24435-11-26 00:00 G	10646089.33	10646089.50	10646089.67	0.0089	0.0006
Mercury	24436-02-22 02:38 G	10646177.44	10646177.61	10646177.78	0.0089	0.0015
Mercury	24436-05-20 05:02 G	10646265.55	10646265.71	10646265.88	0.0089	0.0024
Mercury	24436-08-16 07:40 G	10646353.67	10646353.82	10646353.98	0.0089	0.0032
Mercury	24436-11-12 10:04 G	10646441.79	10646441.92	10646442.09	0.0089	0.0042
Mercury	24437-02-08 12:57 G	10646529.90	10646530.04	10646530.18	0.0089	0.0050
Mercury	24437-05-07 15:21 G	10646618.02	10646618.14	10646618.28	0.0089	0.0059
Mercury	24437-08-03 17:45 G	10646706.15	10646706.24	10646706.37	0.0089	0.0068
Mercury	24437-10-30 20:38 G	10646794.28	10646794.36	10646794.45	0.0089	0.0076
Mercury	24438-01-26 23:02 G	10646882.42	10646882.46	10646882.52	0.0089	0.0084
Moon	24455-09-13 12:00 G	10653321.00	10653321.00	10653321.03	0.0090	0.0089
Jupiter	24455-09-16 23:45 G	10653324.18	10653324.49	10653324.81	0.0090	0.0071
Earth	24456-09-15 03:50 G	10653688.66	10653688.66	10653688.66	0.0090	0.0090
Moon	24457-09-17 13:55 G	10654055.96	10654056.08	10654056.19	0.0090	0.0080



Earth	24457-09-17 17:02 G	10654056.14	10654056.21	10654056.30	0.0090	0.0085	*
Earth	24458-09-20 06:00 G	10654423.65	10654423.75	10654423.88	0.0090	0.0080	
Moon	24458-09-20 09:36 G	10654423.84	10654423.90	10654424.00	0.0090	0.0085	*
Moon	24459-09-22 15:50 G	10654791.03	10654791.16	10654791.34	0.0090	0.0071	
Earth	24459-09-22 19:12 G	10654791.18	10654791.30	10654791.46	0.0090	0.0075	*
Earth	24460-09-24 07:55 G	10655158.69	10655158.83	10655159.02	0.0090	0.0070	
Moon	24460-09-24 11:16 G	10655158.83	10655158.97	10655159.13	0.0090	0.0074	*
Moon	24461-09-26 19:40 G	10655526.15	10655526.32	10655526.52	0.0090	0.0060	
Earth	24461-09-26 21:07 G	10655526.23	10655526.38	10655526.58	0.0090	0.0065	*
Earth	24462-09-29 10:33 G	10655893.76	10655893.94	10655894.14	0.0090	0.0059	
Moon	24462-09-29 11:02 G	10655893.78	10655893.96	10655894.16	0.0090	0.0063	*
Earth	24463-10-01 23:16 G	10656261.28	10656261.47	10656261.69	0.0090	0.0054	
Moon	24463-10-01 23:31 G	10656261.29	10656261.48	10656261.71	0.0090	0.0050	*
Moon	24464-10-03 10:19 G	10656628.73	10656628.93	10656629.16	0.0090	0.0053	
Earth	24464-10-03 12:28 G	10656628.81	10656629.02	10656629.25	0.0090	0.0048	*
Earth	24465-10-06 01:26 G	10656996.35	10656996.56	10656996.80	0.0090	0.0043	
Moon	24465-10-06 04:04 G	10656996.46	10656996.67	10656996.91	0.0090	0.0039	*
Moon	24466-10-08 11:31 G	10657363.76	10657363.98	10657364.22	0.0090	0.0041	
Earth	24466-10-08 14:38 G	10657363.89	10657364.11	10657364.36	0.0090	0.0037	*
Earth	24467-10-11 03:50 G	10657731.43	10657731.66	10657731.91	0.0090	0.0031	
Moon	24467-10-11 07:26 G	10657731.58	10657731.81	10657732.07	0.0090	0.0027	*
Moon	24468-10-12 13:26 G	10658098.84	10658099.06	10658099.32	0.0090	0.0030	
Earth	24468-10-12 17:16 G	10658098.97	10658099.22	10658099.47	0.0090	0.0025	*
Earth	24469-10-15 06:00 G	10658466.51	10658466.75	10658467.02	0.0090	0.0020	
Moon	24469-10-15 09:21 G	10658466.64	10658466.89	10658467.16	0.0090	0.0016	*
Moon	24470-10-17 17:31 G	10658833.99	10658834.23	10658834.48	0.0090	0.0017	
Earth	24470-10-17 19:12 G	10658834.06	10658834.30	10658834.57	0.0090	0.0014	*
Mars	24471-05-23 07:26 G	10659051.76	10659051.81	10659051.92	0.0090	0.0086	
Earth	24471-10-20 08:09 G	10659201.59	10659201.84	10659202.10	0.0090	0.0008	
Moon	24471-10-20 09:07 G	10659201.62	10659201.88	10659202.15	0.0090	0.0004	*

Earth	24472-10-21 21:07 G	10659569.13	10659569.38	10659569.64	0.0089	0.0002
Moon	24472-10-21 21:07 G	10659569.13	10659569.38	10659569.63	0.0089	0.0005 *
Mars	24473-04-15 19:12 G	10659745.03	10659745.30	10659745.60	0.0089	0.0017
Moon	24473-10-24 08:09 G	10659936.58	10659936.84	10659937.12	0.0089	0.0009
Earth	24473-10-24 10:04 G	10659936.66	10659936.92	10659937.18	0.0089	0.0004 *
Earth	24474-10-26 22:48 G	10660304.19	10660304.45	10660304.71	0.0089	0.0010
Moon	24474-10-27 00:57 G	10660304.30	10660304.54	10660304.80	0.0089	0.0007 *
Mars	24475-03-10 08:09 G	10660438.62	10660438.84	10660439.08	0.0089	0.0053
Moon	24475-10-29 08:24 G	10660671.60	10660671.85	10660672.11	0.0089	0.0020
Earth	24475-10-29 11:16 G	10660671.73	10660671.97	10660672.24	0.0089	0.0017 *
Earth	24476-10-31 00:00 G	10661039.26	10661039.50	10661039.76	0.0089	0.0022
Moon	24476-10-31 03:50 G	10661039.41	10661039.66	10661039.92	0.0089	0.0018 *
Moon	24477-11-02 09:21 G	10661406.67	10661406.89	10661407.15	0.0089	0.0031
Earth	24477-11-02 13:12 G	10661406.80	10661407.05	10661407.29	0.0089	0.0028 *
Earth	24478-11-05 01:40 G	10661774.34	10661774.57	10661774.81	0.0089	0.0034
Moon	24478-11-05 04:48 G	10661774.47	10661774.70	10661774.96	0.0089	0.0031 *
Moon	24479-11-07 12:14 G	10662141.80	10662142.01	10662142.24	0.0089	0.0043
Earth	24479-11-07 14:09 G	10662141.87	10662142.09	10662142.33	0.0089	0.0039 *
Earth	24480-11-09 02:38 G	10662509.41	10662509.61	10662509.85	0.0089	0.0045
Moon	24480-11-09 04:19 G	10662509.45	10662509.68	10662509.92	0.0089	0.0043 *
Moon	24481-11-11 15:07 G	10662876.95	10662877.13	10662877.35	0.0089	0.0053
Earth	24481-11-11 15:36 G	10662876.95	10662877.15	10662877.38	0.0089	0.0051 *
Moon	24482-11-14 02:24 G	10663244.41	10663244.60	10663244.83	0.0089	0.0053
Earth	24482-11-14 03:50 G	10663244.49	10663244.66	10663244.89	0.0089	0.0057 *
Earth	24483-11-16 16:33 G	10663612.02	10663612.19	10663612.39	0.0089	0.0061
Moon	24483-11-16 18:57 G	10663612.12	10663612.29	10663612.47	0.0089	0.0064 *
Moon	24484-11-18 01:55 G	10663979.42	10663979.58	10663979.78	0.0089	0.0065
Earth	24484-11-18 05:16 G	10663979.56	10663979.72	10663979.89	0.0089	0.0067 *
Earth	24485-11-20 17:02 G	10664347.08	10664347.21	10664347.39	0.0089	0.0072
Moon	24485-11-20 20:52 G	10664347.25	10664347.37	10664347.53	0.0089	0.0075 *

Moon	24486-11-23 01:55 G	10664714.47	10664714.58	10664714.74	0.0089	0.0076
Earth	24486-11-23 05:16 G	10664714.62	10664714.72	10664714.88	0.0089	0.0078 *
Earth	24487-11-25 17:16 G	10665082.15	10665082.22	10665082.35	0.0089	0.0082
Moon	24487-11-25 20:52 G	10665082.30	10665082.37	10665082.48	0.0089	0.0083 *
Moon	24488-11-27 03:21 G	10665449.60	10665449.64	10665449.74	0.0089	0.0085
Earth	24488-11-27 05:31 G	10665449.70	10665449.73	10665449.81	0.0089	0.0087 *
Venus	24503-02-04 06:28 G	10670630.65	10670630.77	10670630.91	0.0089	0.0071
Venus	24503-09-17 19:26 G	10670856.14	10670856.31	10670856.50	0.0089	0.0052
Venus	24504-04-30 08:09 G	10671081.65	10671081.84	10671082.06	0.0089	0.0033
Venus	24504-12-11 21:21 G	10671307.18	10671307.39	10671307.61	0.0089	0.0013
Venus	24505-07-25 10:19 G	10671532.71	10671532.93	10671533.15	0.0088	0.0006
Venus	24506-03-07 23:02 G	10671758.25	10671758.46	10671758.67	0.0088	0.0026
Venus	24506-10-19 11:45 G	10671983.82	10671983.99	10671984.20	0.0088	0.0046
Venus	24507-06-02 00:43 G	10672209.39	10672209.53	10672209.69	0.0088	0.0064
Venus	24508-01-13 13:26 G	10672435.01	10672435.06	10672435.15	0.0088	0.0084
Mercury	24514-04-07 21:50 G	10674711.41	10674711.41	10674711.44	0.0088	0.0087
Mercury	24514-07-04 23:31 G	10674799.43	10674799.48	10674799.55	0.0088	0.0080
Mercury	24514-10-01 01:12 G	10674887.48	10674887.55	10674887.64	0.0088	0.0073
Mercury	24514-12-28 02:38 G	10674975.53	10674975.61	10674975.72	0.0088	0.0066
Mercury	24515-03-26 04:19 G	10675063.59	10675063.68	10675063.80	0.0088	0.0059
Mercury	24515-06-22 06:14 G	10675151.65	10675151.76	10675151.88	0.0088	0.0051
Mercury	24515-09-18 07:55 G	10675239.71	10675239.83	10675239.96	0.0088	0.0044
Mercury	24515-12-15 09:36 G	10675327.77	10675327.90	10675328.03	0.0088	0.0037
Mercury	24516-03-12 11:02 G	10675415.84	10675415.96	10675416.11	0.0088	0.0030
Mercury	24516-06-08 12:57 G	10675503.90	10675504.04	10675504.18	0.0088	0.0022
Mercury	24516-09-04 14:38 G	10675591.97	10675592.11	10675592.26	0.0088	0.0015
Mercury	24516-12-01 16:19 G	10675680.04	10675680.18	10675680.33	0.0088	0.0008
Mercury	24517-02-27 18:00 G	10675768.11	10675768.25	10675768.40	0.0088	0.0003
Mercury	24517-05-26 19:55 G	10675856.18	10675856.33	10675856.47	0.0088	0.0007
Mercury	24517-08-22 21:36 G	10675944.25	10675944.40	10675944.54	0.0088	0.0014

Mercury	24517-11-18 23:16 G	10676032.33	10676032.47	10676032.61	0.0088	0.0022
Mercury	24518-02-15 00:57 G	10676120.40	10676120.54	10676120.68	0.0088	0.0029
Mercury	24518-05-14 02:38 G	10676208.48	10676208.61	10676208.75	0.0088	0.0037
Mercury	24518-08-10 04:19 G	10676296.56	10676296.68	10676296.82	0.0088	0.0045
Mercury	24518-11-06 06:00 G	10676384.64	10676384.75	10676384.88	0.0088	0.0052
Mercury	24519-02-02 07:55 G	10676472.73	10676472.83	10676472.95	0.0088	0.0059
Mercury	24519-05-01 09:36 G	10676560.82	10676560.90	10676561.01	0.0088	0.0067
Mercury	24519-07-28 11:31 G	10676648.91	10676648.98	10676649.06	0.0088	0.0074
Mercury	24519-10-24 13:12 G	10676737.01	10676737.05	10676737.11	0.0088	0.0082
Earth	24539-03-18 23:16 G	10683822.46	10683822.47	10683822.54	0.0088	0.0087
Earth	24540-03-20 09:50 G	10684189.83	10684189.91	10684190.01	0.0088	0.0082
Moon	24540-03-20 13:40 G	10684189.96	10684190.07	10684190.17	0.0088	0.0079 *
Moon	24541-03-22 16:33 G	10684557.12	10684557.19	10684557.32	0.0088	0.0081
Earth	24541-03-22 20:09 G	10684557.23	10684557.34	10684557.47	0.0088	0.0077 *
Earth	24542-03-25 05:45 G	10684924.62	10684924.74	10684924.91	0.0088	0.0073
Moon	24542-03-25 08:24 G	10684924.70	10684924.85	10684925.02	0.0088	0.0069 *
Moon	24543-03-27 15:50 G	10685292.02	10685292.16	10685292.32	0.0088	0.0070
Earth	24543-03-27 16:04 G	10685292.03	10685292.17	10685292.36	0.0088	0.0068 *
Moon	24544-03-29 02:09 G	10685659.43	10685659.59	10685659.82	0.0088	0.0060
Earth	24544-03-29 02:24 G	10685659.45	10685659.60	10685659.80	0.0088	0.0063 *
Earth	24545-03-31 12:28 G	10686026.86	10686027.02	10686027.24	0.0088	0.0058
Moon	24545-03-31 14:24 G	10686026.94	10686027.10	10686027.30	0.0088	0.0061 *
Moon	24546-04-02 20:24 G	10686394.15	10686394.35	10686394.58	0.0088	0.0050
Earth	24546-04-02 23:31 G	10686394.28	10686394.48	10686394.69	0.0088	0.0052 *
Earth	24547-04-05 09:36 G	10686761.69	10686761.90	10686762.13	0.0088	0.0047
Moon	24547-04-05 12:28 G	10686761.83	10686762.02	10686762.24	0.0088	0.0051 *
Moon	24548-04-06 15:50 G	10687128.95	10687129.16	10687129.41	0.0088	0.0039
Earth	24548-04-06 19:40 G	10687129.11	10687129.32	10687129.57	0.0088	0.0042 *
Earth	24549-04-09 06:14 G	10687496.53	10687496.76	10687497.00	0.0088	0.0036
Moon	24549-04-09 09:36 G	10687496.67	10687496.90	10687497.13	0.0088	0.0039 *

Moon	24550-04-11 13:40 G	10687863.83	10687864.07	10687864.31	0.0088	0.0027
Earth	24550-04-11 16:19 G	10687863.95	10687864.18	10687864.43	0.0088	0.0031 *
Earth	24551-04-14 02:52 G	10688231.37	10688231.62	10688231.87	0.0088	0.0025
Moon	24551-04-14 04:19 G	10688231.44	10688231.68	10688231.94	0.0088	0.0029 *
Moon	24552-04-15 12:43 G	10688598.80	10688599.03	10688599.28	0.0088	0.0017
Earth	24552-04-15 12:57 G	10688598.80	10688599.04	10688599.30	0.0088	0.0020 *
Moon	24553-04-17 22:33 G	10688966.19	10688966.44	10688966.72	0.0088	0.0018
Earth	24553-04-17 23:16 G	10688966.22	10688966.47	10688966.73	0.0088	0.0014 *
Earth	24554-04-20 09:36 G	10689333.65	10689333.90	10689334.16	0.0088	0.0009
Moon	24554-04-20 11:45 G	10689333.74	10689333.99	10689334.24	0.0088	0.0005 *
Mars	24555-02-14 10:19 G	10689633.69	10689633.93	10689634.21	0.0088	0.0058
Moon	24555-04-22 17:02 G	10689700.96	10689701.21	10689701.48	0.0088	0.0006
Earth	24555-04-22 20:24 G	10689701.09	10689701.35	10689701.60	0.0088	0.0003 *
Earth	24556-04-24 06:43 G	10690068.52	10690068.78	10690069.04	0.0088	0.0003
Moon	24556-04-24 09:50 G	10690068.66	10690068.91	10690069.17	0.0088	0.0007 *
Mars	24557-01-10 22:48 G	10690330.13	10690330.45	10690330.80	0.0088	0.0024
Moon	24557-04-26 13:40 G	10690435.81	10690436.07	10690436.32	0.0088	0.0005
Earth	24557-04-26 17:16 G	10690435.97	10690436.22	10690436.48	0.0088	0.0009 *
Earth	24558-04-29 03:50 G	10690803.41	10690803.66	10690803.92	0.0088	0.0014
Moon	24558-04-29 06:43 G	10690803.53	10690803.78	10690804.05	0.0088	0.0018 *
Moon	24559-05-01 11:45 G	10691170.75	10691170.99	10691171.25	0.0088	0.0016
Earth	24559-05-01 14:24 G	10691170.86	10691171.10	10691171.36	0.0088	0.0020 *
Earth	24560-05-03 00:57 G	10691538.30	10691538.54	10691538.80	0.0088	0.0026
Moon	24560-05-03 02:38 G	10691538.36	10691538.61	10691538.86	0.0088	0.0029 *
Earth	24561-05-05 11:31 G	10691905.75	10691905.98	10691906.23	0.0088	0.0031
Moon	24561-05-05 11:31 G	10691905.76	10691905.98	10691906.23	0.0088	0.0028 *
Moon	24562-05-07 21:21 G	10692273.16	10692273.39	10692273.63	0.0088	0.0040
Earth	24562-05-07 22:04 G	10692273.20	10692273.42	10692273.67	0.0088	0.0037 *
Earth	24563-05-10 08:52 G	10692640.65	10692640.87	10692641.11	0.0088	0.0042
Moon	24563-05-10 11:31 G	10692640.75	10692640.98	10692641.20	0.0088	0.0038 *

Moon	24564-05-11 16:04 G	10693007.98	10693008.17	10693008.40	0.0088	0.0051
Earth	24564-05-11 19:12 G	10693008.11	10693008.30	10693008.54	0.0088	0.0048 *
Earth	24565-05-14 06:00 G	10693375.56	10693375.75	10693375.97	0.0088	0.0053
Moon	24565-05-14 09:21 G	10693375.70	10693375.89	10693376.12	0.0088	0.0049 *
Moon	24566-05-16 13:40 G	10693742.89	10693743.07	10693743.25	0.0088	0.0062
Earth	24566-05-16 17:02 G	10693743.03	10693743.21	10693743.41	0.0088	0.0058 *
Earth	24567-05-19 03:21 G	10694110.49	10694110.64	10694110.85	0.0088	0.0064
Moon	24567-05-19 06:28 G	10694110.60	10694110.77	10694110.98	0.0088	0.0060 *
Moon	24568-05-20 12:14 G	10694477.89	10694478.01	10694478.16	0.0088	0.0073
Earth	24568-05-20 14:24 G	10694477.97	10694478.10	10694478.29	0.0088	0.0069 *
Earth	24569-05-23 01:26 G	10694845.44	10694845.56	10694845.72	0.0088	0.0074
Moon	24569-05-23 02:52 G	10694845.46	10694845.62	10694845.79	0.0088	0.0070 *
Earth	24570-05-25 12:28 G	10695212.93	10695213.02	10695213.16	0.0088	0.0079
Moon	24570-05-25 12:43 G	10695212.98	10695213.03	10695213.14	0.0088	0.0083 *
Moon	24571-05-27 22:48 G	10695580.36	10695580.45	10695580.58	0.0088	0.0080
Earth	24571-05-27 23:31 G	10695580.44	10695580.48	10695580.59	0.0088	0.0085 *
Venus	24586-06-15 12:57 G	10701077.93	10701078.04	10701078.17	0.0089	0.0073
Venus	24587-01-27 01:55 G	10701303.42	10701303.58	10701303.77	0.0089	0.0054
Venus	24587-09-09 15:21 G	10701528.93	10701529.14	10701529.34	0.0089	0.0034
Venus	24588-04-22 04:19 G	10701754.47	10701754.68	10701754.91	0.0089	0.0015
Venus	24588-12-03 17:31 G	10701980.01	10701980.23	10701980.45	0.0089	0.0005
Venus	24589-07-17 06:14 G	10702205.56	10702205.76	10702205.99	0.0089	0.0025
Venus	24590-02-27 19:26 G	10702431.13	10702431.31	10702431.51	0.0089	0.0044
Venus	24590-10-11 08:38 G	10702656.71	10702656.86	10702657.02	0.0089	0.0063
Venus	24591-05-24 21:21 G	10702882.34	10702882.39	10702882.49	0.0089	0.0083
Mercury	24598-03-25 18:14 G	10705379.22	10705379.26	10705379.33	0.0089	0.0084
Mercury	24598-06-21 20:52 G	10705467.30	10705467.37	10705467.48	0.0089	0.0075
Mercury	24598-09-17 23:45 G	10705555.39	10705555.49	10705555.62	0.0089	0.0066
Mercury	24598-12-15 02:52 G	10705643.49	10705643.62	10705643.75	0.0089	0.0057
Mercury	24599-03-13 05:31 G	10705731.59	10705731.73	10705731.88	0.0089	0.0047

Mercury	24599-06-09 08:09 G	10705819.69	10705819.84	10705820.00	0.0089	0.0039
Mercury	24599-09-05 11:02 G	10705907.80	10705907.96	10705908.12	0.0089	0.0029
Mercury	24599-12-02 13:40 G	10705995.91	10705996.07	10705996.24	0.0089	0.0020
Mercury	24600-02-28 16:33 G	10706084.02	10706084.19	10706084.36	0.0089	0.0011
Mercury	24600-05-27 19:12 G	10706172.13	10706172.30	10706172.47	0.0089	0.0002
Mercury	24600-08-23 21:50 G	10706260.24	10706260.41	10706260.58	0.0089	0.0007
Mercury	24600-11-20 00:28 G	10706348.35	10706348.52	10706348.69	0.0089	0.0015
Mercury	24601-02-16 03:07 G	10706436.47	10706436.63	10706436.80	0.0089	0.0024
Mercury	24601-05-15 05:31 G	10706524.58	10706524.73	10706524.90	0.0089	0.0034
Mercury	24601-08-11 08:09 G	10706612.70	10706612.84	10706613.00	0.0089	0.0042
Mercury	24601-11-07 11:02 G	10706700.82	10706700.96	10706701.10	0.0089	0.0051
Mercury	24602-02-03 13:26 G	10706788.94	10706789.06	10706789.19	0.0089	0.0059
Mercury	24602-05-02 15:50 G	10706877.07	10706877.16	10706877.28	0.0089	0.0068
Mercury	24602-07-29 18:43 G	10706965.20	10706965.28	10706965.36	0.0089	0.0077
Mercury	24602-10-25 21:07 G	10707053.34	10707053.38	10707053.43	0.0089	0.0085
Moon	24622-09-21 05:45 G	10714323.69	10714323.74	10714323.82	0.0090	0.0086
Earth	24622-09-21 08:52 G	10714323.80	10714323.87	10714323.96	0.0090	0.0085 *
Earth	24623-09-23 21:50 G	10714691.31	10714691.41	10714691.54	0.0090	0.0080
Moon	24623-09-23 23:31 G	10714691.37	10714691.48	10714691.62	0.0090	0.0079 *
Moon	24624-09-25 10:04 G	10715058.80	10715058.92	10715059.07	0.0090	0.0075
Earth	24624-09-25 11:02 G	10715058.84	10715058.96	10715059.12	0.0090	0.0075 *
Moon	24625-09-28 00:00 G	10715426.35	10715426.50	10715426.69	0.0090	0.0069
Earth	24625-09-28 00:00 G	10715426.37	10715426.50	10715426.69	0.0090	0.0070 *
Earth	24626-09-30 13:12 G	10715793.89	10715794.05	10715794.25	0.0090	0.0064
Moon	24626-09-30 14:52 G	10715793.97	10715794.12	10715794.32	0.0090	0.0065 *
Moon	24627-10-03 00:28 G	10716161.32	10716161.52	10716161.72	0.0090	0.0058
Earth	24627-10-03 02:38 G	10716161.42	10716161.61	10716161.82	0.0090	0.0058 *
Earth	24628-10-04 15:21 G	10716528.95	10716529.14	10716529.37	0.0090	0.0053
Moon	24628-10-04 18:57 G	10716529.09	10716529.29	10716529.51	0.0090	0.0052 *
Moon	24629-10-07 00:57 G	10716896.34	10716896.54	10716896.78	0.0090	0.0047

Earth	24629-10-07 04:33 G	10716896.49	10716896.69	10716896.93	0.0090	0.0047	*
Earth	24630-10-09 17:45 G	10717264.02	10717264.24	10717264.48	0.0090	0.0041	
Moon	24630-10-09 21:07 G	10717264.17	10717264.38	10717264.63	0.0090	0.0040	*
Moon	24631-10-12 03:36 G	10717631.43	10717631.65	10717631.90	0.0090	0.0036	
Earth	24631-10-12 06:43 G	10717631.56	10717631.78	10717632.04	0.0090	0.0035	*
Earth	24632-10-13 19:55 G	10717999.10	10717999.33	10717999.59	0.0090	0.0029	
Moon	24632-10-13 22:04 G	10717999.18	10717999.42	10717999.68	0.0090	0.0028	*
Moon	24633-10-16 07:40 G	10718366.59	10718366.82	10718367.07	0.0090	0.0025	
Earth	24633-10-16 09:07 G	10718366.64	10718366.88	10718367.14	0.0090	0.0023	*
Moon	24634-10-18 22:04 G	10718734.17	10718734.42	10718734.70	0.0090	0.0016	
Earth	24634-10-18 22:19 G	10718734.18	10718734.43	10718734.69	0.0090	0.0017	*
Earth	24635-10-21 11:31 G	10719101.72	10719101.98	10719102.24	0.0090	0.0010	
Moon	24635-10-21 12:43 G	10719101.79	10719102.03	10719102.28	0.0090	0.0012	*
Moon	24636-10-22 22:33 G	10719469.18	10719469.44	10719469.71	0.0090	0.0003	
Earth	24636-10-23 00:28 G	10719469.27	10719469.52	10719469.79	0.0090	0.0005	*
Mars	24636-12-01 04:19 G	10719508.46	10719508.68	10719508.95	0.0090	0.0045	
Earth	24637-10-25 13:26 G	10719836.80	10719837.06	10719837.32	0.0090	0.0002	
Moon	24637-10-25 16:33 G	10719836.94	10719837.19	10719837.45	0.0090	0.0001	*
Mars	24638-10-25 16:33 G	10720201.91	10720202.19	10720202.46	0.0089	0.0025	
Moon	24638-10-27 22:48 G	10720204.20	10720204.45	10720204.71	0.0089	0.0009	
Earth	24638-10-28 02:24 G	10720204.34	10720204.60	10720204.86	0.0089	0.0008	*
Earth	24639-10-30 14:38 G	10720571.87	10720572.11	10720572.38	0.0089	0.0015	
Moon	24639-10-30 18:28 G	10720572.02	10720572.27	10720572.53	0.0089	0.0011	*
Moon	24640-11-01 00:14 G	10720939.28	10720939.51	10720939.77	0.0089	0.0023	
Earth	24640-11-01 03:36 G	10720939.41	10720939.65	10720939.91	0.0089	0.0020	*
Earth	24641-11-03 16:04 G	10721306.94	10721307.17	10721307.43	0.0089	0.0027	
Moon	24641-11-03 18:43 G	10721307.03	10721307.28	10721307.54	0.0089	0.0024	*
Moon	24642-11-06 02:52 G	10721674.41	10721674.62	10721674.87	0.0089	0.0036	
Earth	24642-11-06 04:33 G	10721674.47	10721674.69	10721674.95	0.0089	0.0033	*
Moon	24643-11-08 17:31 G	10722042.00	10722042.23	10722042.49	0.0089	0.0036	



Earth	24643-11-08 17:16 G	10722042.01	10722042.22	10722042.47	0.0089	0.0038	*
Earth	24644-11-10 06:14 G	10722409.54	10722409.76	10722409.99	0.0089	0.0044	
Moon	24644-11-10 06:57 G	10722409.60	10722409.79	10722410.02	0.0089	0.0047	*
Moon	24645-11-12 16:48 G	10722776.99	10722777.20	10722777.45	0.0089	0.0047	
Earth	24645-11-12 18:43 G	10722777.08	10722777.28	10722777.51	0.0089	0.0050	*
Earth	24646-11-15 07:12 G	10723144.62	10723144.80	10723145.02	0.0089	0.0056	
Moon	24646-11-15 10:19 G	10723144.76	10723144.93	10723145.14	0.0089	0.0059	*
Moon	24647-11-17 16:19 G	10723512.01	10723512.18	10723512.40	0.0089	0.0059	
Earth	24647-11-17 19:40 G	10723512.16	10723512.32	10723512.54	0.0089	0.0062	*
Earth	24648-11-19 08:24 G	10723879.70	10723879.85	10723880.04	0.0089	0.0067	
Moon	24648-11-19 12:00 G	10723879.86	10723880.00	10723880.18	0.0089	0.0071	*
Moon	24649-11-21 17:45 G	10724247.09	10724247.24	10724247.42	0.0089	0.0069	
Earth	24649-11-21 20:52 G	10724247.24	10724247.37	10724247.55	0.0089	0.0072	*
Earth	24650-11-24 09:07 G	10724614.77	10724614.88	10724615.03	0.0089	0.0077	
Moon	24650-11-24 12:00 G	10724614.90	10724615.00	10724615.12	0.0089	0.0081	*
Moon	24651-11-26 19:55 G	10724982.22	10724982.33	10724982.45	0.0089	0.0078	
Earth	24651-11-26 21:36 G	10724982.32	10724982.40	10724982.51	0.0089	0.0082	*
Earth	24652-11-28 09:50 G	10725349.88	10725349.91	10725349.98	0.0089	0.0087	
Moon	24653-11-30 22:48 G	10725717.45	10725717.45	10725717.47	0.0089	0.0089	
Venus	24667-05-09 14:52 G	10730625.04	10730625.12	10730625.22	0.0089	0.0081	
Venus	24667-12-21 03:36 G	10730850.51	10730850.65	10730850.82	0.0089	0.0062	
Venus	24668-08-02 16:19 G	10731076.01	10731076.18	10731076.39	0.0089	0.0043	
Venus	24669-03-16 05:45 G	10731301.52	10731301.74	10731301.95	0.0089	0.0023	
Venus	24669-10-27 18:43 G	10731527.06	10731527.28	10731527.50	0.0089	0.0004	
Venus	24670-06-10 07:26 G	10731752.60	10731752.81	10731753.03	0.0089	0.0016	
Venus	24671-01-21 20:24 G	10731978.15	10731978.35	10731978.55	0.0088	0.0035	
Venus	24671-09-04 08:52 G	10732203.71	10732203.87	10732204.06	0.0088	0.0055	
Venus	24672-04-16 21:50 G	10732429.30	10732429.41	10732429.54	0.0088	0.0074	
Mercury	24679-01-03 20:38 G	10734882.35	10734882.36	10734882.41	0.0088	0.0086	
Mercury	24679-04-01 22:19 G	10734970.38	10734970.43	10734970.51	0.0088	0.0079	

Mercury	24679-06-29 00:14 G	10735058.43	10735058.51	10735058.59	0.0088	0.0072
Mercury	24679-09-25 01:55 G	10735146.48	10735146.58	10735146.68	0.0088	0.0065
Mercury	24679-12-22 03:21 G	10735234.54	10735234.64	10735234.76	0.0088	0.0058
Mercury	24680-03-19 05:02 G	10735322.60	10735322.71	10735322.83	0.0088	0.0050
Mercury	24680-06-15 06:43 G	10735410.66	10735410.78	10735410.91	0.0088	0.0043
Mercury	24680-09-11 08:24 G	10735498.72	10735498.85	10735498.99	0.0088	0.0036
Mercury	24680-12-08 10:04 G	10735586.79	10735586.92	10735587.06	0.0088	0.0029
Mercury	24681-03-06 11:45 G	10735674.85	10735674.99	10735675.13	0.0088	0.0021
Mercury	24681-06-02 13:26 G	10735762.92	10735763.06	10735763.21	0.0088	0.0014
Mercury	24681-08-29 15:07 G	10735850.99	10735851.13	10735851.28	0.0088	0.0007
Mercury	24681-11-25 16:48 G	10735939.06	10735939.20	10735939.35	0.0088	0.0003
Mercury	24682-02-21 18:43 G	10736027.13	10736027.28	10736027.42	0.0088	0.0008
Mercury	24682-05-20 20:24 G	10736115.20	10736115.35	10736115.49	0.0088	0.0016
Mercury	24682-08-16 21:50 G	10736203.28	10736203.41	10736203.56	0.0088	0.0024
Mercury	24682-11-12 23:45 G	10736291.35	10736291.49	10736291.63	0.0088	0.0030
Mercury	24683-02-09 01:26 G	10736379.43	10736379.56	10736379.70	0.0088	0.0038
Mercury	24683-05-08 03:07 G	10736467.51	10736467.63	10736467.76	0.0088	0.0045
Mercury	24683-08-04 04:48 G	10736555.59	10736555.70	10736555.83	0.0088	0.0053
Mercury	24683-10-31 06:43 G	10736643.68	10736643.78	10736643.89	0.0088	0.0060
Mercury	24684-01-27 08:09 G	10736731.76	10736731.84	10736731.95	0.0088	0.0069
Mercury	24684-04-24 10:19 G	10736819.86	10736819.93	10736820.00	0.0088	0.0075
Mercury	24684-07-21 11:45 G	10736907.96	10736907.99	10736908.05	0.0088	0.0083
Moon	24704-03-21 15:21 G	10744090.08	10744090.14	10744090.24	0.0088	0.0083
Earth	24704-03-21 17:45 G	10744090.22	10744090.24	10744090.29	0.0088	0.0087 *
Earth	24705-03-24 03:36 G	10744457.58	10744457.65	10744457.77	0.0088	0.0082
Moon	24705-03-24 05:31 G	10744457.68	10744457.73	10744457.81	0.0088	0.0085 *
Moon	24706-03-26 13:12 G	10744824.95	10744825.05	10744825.22	0.0088	0.0074
Earth	24706-03-26 13:55 G	10744824.98	10744825.08	10744825.22	0.0088	0.0077 *
Moon	24707-03-28 22:33 G	10745192.34	10745192.44	10745192.60	0.0088	0.0076
Earth	24707-03-29 00:14 G	10745192.38	10745192.51	10745192.67	0.0088	0.0072 *

Earth	24708-03-30 10:04 G	10745559.78	10745559.92	10745560.11	0.0088	0.0067
Moon	24708-03-30 12:00 G	10745559.85	10745560.00	10745560.20	0.0088	0.0064 *
Moon	24709-04-01 17:02 G	10745927.07	10745927.21	10745927.42	0.0088	0.0066
Earth	24709-04-01 20:24 G	10745927.19	10745927.35	10745927.55	0.0088	0.0062 *
Earth	24710-04-04 06:57 G	10746294.60	10746294.79	10746294.99	0.0088	0.0056
Moon	24710-04-04 10:33 G	10746294.74	10746294.94	10746295.15	0.0088	0.0052 *
Moon	24711-04-06 13:26 G	10746661.89	10746662.06	10746662.29	0.0088	0.0055
Earth	24711-04-06 17:02 G	10746662.02	10746662.21	10746662.44	0.0088	0.0051 *
Earth	24712-04-08 03:07 G	10747029.44	10747029.63	10747029.88	0.0088	0.0046
Moon	24712-04-08 06:43 G	10747029.57	10747029.78	10747030.03	0.0088	0.0042 *
Moon	24713-04-10 11:45 G	10747396.79	10747396.99	10747397.22	0.0088	0.0044
Earth	24713-04-10 13:40 G	10747396.85	10747397.07	10747397.31	0.0088	0.0040 *
Earth	24714-04-13 00:14 G	10747764.27	10747764.51	10747764.75	0.0088	0.0034
Moon	24714-04-13 01:26 G	10747764.32	10747764.56	10747764.82	0.0088	0.0031 *
Earth	24715-04-15 10:04 G	10748131.70	10748131.92	10748132.18	0.0088	0.0029
Moon	24715-04-15 10:19 G	10748131.71	10748131.93	10748132.17	0.0088	0.0032 *
Moon	24716-04-16 18:43 G	10748499.03	10748499.28	10748499.55	0.0088	0.0019
Earth	24716-04-16 20:24 G	10748499.12	10748499.35	10748499.61	0.0088	0.0023 *
Earth	24717-04-19 06:43 G	10748866.54	10748866.78	10748867.04	0.0088	0.0017
Moon	24717-04-19 09:07 G	10748866.64	10748866.88	10748867.13	0.0088	0.0020 *
Moon	24718-04-21 13:55 G	10749233.82	10749234.08	10749234.34	0.0088	0.0008
Earth	24718-04-21 17:16 G	10749233.97	10749234.22	10749234.48	0.0088	0.0011 *
Earth	24719-04-24 03:36 G	10749601.39	10749601.65	10749601.91	0.0088	0.0005
Moon	24719-04-24 07:12 G	10749601.54	10749601.80	10749602.06	0.0088	0.0009 *
Moon	24720-04-25 10:33 G	10749968.69	10749968.94	10749969.20	0.0088	0.0004
Earth	24720-04-25 13:55 G	10749968.83	10749969.08	10749969.34	0.0088	0.0002 *
Mars	24720-08-25 23:16 G	10750091.13	10750091.47	10750091.83	0.0088	0.0008
Earth	24721-04-28 00:14 G	10750336.26	10750336.51	10750336.77	0.0088	0.0007
Moon	24721-04-28 03:21 G	10750336.38	10750336.64	10750336.91	0.0088	0.0003 *
Moon	24722-04-30 09:07 G	10750703.65	10750703.88	10750704.14	0.0088	0.0016

Earth	24722-04-30 11:02 G	10750703.70	10750703.96	10750704.21	0.0088	0.0012	*
Mars	24722-07-23 10:33 G	10750787.79	10750787.94	10750788.17	0.0088	0.0074	
Earth	24723-05-02 21:21 G	10751071.15	10751071.39	10751071.65	0.0088	0.0018	
Moon	24723-05-02 22:33 G	10751071.17	10751071.44	10751071.70	0.0088	0.0015	*
Earth	24724-05-04 07:55 G	10751438.59	10751438.83	10751439.09	0.0088	0.0024	
Moon	24724-05-04 08:24 G	10751438.62	10751438.85	10751439.09	0.0088	0.0027	*
Moon	24725-05-06 16:33 G	10751805.94	10751806.19	10751806.45	0.0088	0.0026	
Earth	24725-05-06 18:28 G	10751806.04	10751806.27	10751806.53	0.0088	0.0030	*
Earth	24726-05-09 05:16 G	10752173.49	10752173.72	10752173.97	0.0088	0.0035	
Moon	24726-05-09 07:55 G	10752173.61	10752173.83	10752174.06	0.0088	0.0038	*
Moon	24727-05-11 12:14 G	10752540.79	10752541.01	10752541.26	0.0088	0.0038	
Earth	24727-05-11 15:50 G	10752540.95	10752541.16	10752541.40	0.0088	0.0041	*
Earth	24728-05-13 02:24 G	10752908.40	10752908.60	10752908.84	0.0088	0.0047	
Moon	24728-05-13 06:00 G	10752908.56	10752908.75	10752908.98	0.0088	0.0050	*
Moon	24729-05-15 09:50 G	10753275.72	10753275.91	10753276.14	0.0088	0.0050	
Earth	24729-05-15 13:26 G	10753275.86	10753276.06	10753276.27	0.0088	0.0052	*
Earth	24730-05-17 23:45 G	10753643.32	10753643.49	10753643.71	0.0088	0.0058	
Moon	24730-05-18 03:07 G	10753643.44	10753643.63	10753643.83	0.0088	0.0060	*
Moon	24731-05-20 09:21 G	10754010.73	10754010.89	10754011.09	0.0088	0.0061	
Earth	24731-05-20 11:02 G	10754010.79	10754010.96	10754011.14	0.0088	0.0063	*
Earth	24732-05-21 21:07 G	10754378.25	10754378.38	10754378.57	0.0088	0.0069	
Moon	24732-05-21 21:50 G	10754378.28	10754378.41	10754378.60	0.0088	0.0071	*
Earth	24733-05-24 08:24 G	10754745.73	10754745.85	10754746.01	0.0088	0.0074	
Moon	24733-05-24 08:52 G	10754745.76	10754745.87	10754746.05	0.0088	0.0072	*
Moon	24734-05-26 17:02 G	10755113.14	10755113.21	10755113.33	0.0088	0.0082	
Earth	24734-05-26 19:26 G	10755113.22	10755113.31	10755113.44	0.0088	0.0079	*
Earth	24735-05-29 06:28 G	10755480.72	10755480.77	10755480.86	0.0088	0.0084	
Moon	24735-05-29 09:07 G	10755480.81	10755480.88	10755480.99	0.0088	0.0082	*
Venus	24750-09-18 21:07 G	10761072.32	10761072.38	10761072.47	0.0089	0.0083	
Venus	24751-05-02 10:19 G	10761297.79	10761297.93	10761298.10	0.0089	0.0064	

Venus	24751-12-13 23:31 G	10761523.30	10761523.48	10761523.68	0.0089	0.0044
Venus	24752-07-26 12:28 G	10761748.82	10761749.02	10761749.25	0.0089	0.0025
Venus	24753-03-09 01:55 G	10761974.36	10761974.58	10761974.80	0.0089	0.0005
Venus	24753-10-20 14:52 G	10762199.91	10762200.12	10762200.34	0.0089	0.0015
Venus	24754-06-03 04:04 G	10762425.47	10762425.67	10762425.88	0.0089	0.0034
Venus	24755-01-14 16:48 G	10762651.04	10762651.20	10762651.39	0.0089	0.0054
Venus	24755-08-28 05:45 G	10762876.64	10762876.74	10762876.88	0.0089	0.0073
Mercury	24762-12-22 16:04 G	10765550.12	10765550.17	10765550.24	0.0089	0.0083
Mercury	24763-03-20 18:43 G	10765638.20	10765638.28	10765638.40	0.0089	0.0074
Mercury	24763-06-16 21:36 G	10765726.30	10765726.40	10765726.53	0.0089	0.0065
Mercury	24763-09-13 00:43 G	10765814.40	10765814.53	10765814.67	0.0089	0.0055
Mercury	24763-12-10 03:21 G	10765902.50	10765902.64	10765902.79	0.0089	0.0046
Mercury	24764-03-07 06:14 G	10765990.61	10765990.76	10765990.92	0.0089	0.0037
Mercury	24764-06-03 08:52 G	10766078.71	10766078.87	10766079.04	0.0089	0.0028
Mercury	24764-08-30 11:31 G	10766166.82	10766166.98	10766167.16	0.0089	0.0020
Mercury	24764-11-26 14:24 G	10766254.93	10766255.10	10766255.27	0.0089	0.0010
Mercury	24765-02-22 17:02 G	10766343.04	10766343.21	10766343.39	0.0089	0.0003
Mercury	24765-05-21 19:55 G	10766431.16	10766431.33	10766431.50	0.0089	0.0008
Mercury	24765-08-17 22:19 G	10766519.27	10766519.43	10766519.61	0.0089	0.0017
Mercury	24765-11-14 00:57 G	10766607.39	10766607.54	10766607.71	0.0089	0.0026
Mercury	24766-02-10 03:50 G	10766695.50	10766695.66	10766695.82	0.0089	0.0035
Mercury	24766-05-09 06:14 G	10766783.62	10766783.76	10766783.92	0.0089	0.0044
Mercury	24766-08-05 08:52 G	10766871.74	10766871.87	10766872.02	0.0089	0.0052
Mercury	24766-11-01 11:16 G	10766959.87	10766959.97	10766960.11	0.0089	0.0062
Mercury	24767-01-28 14:09 G	10767047.99	10767048.09	10767048.20	0.0089	0.0070
Mercury	24767-04-26 16:33 G	10767136.13	10767136.19	10767136.28	0.0089	0.0079
Mercury	24767-07-23 18:57 G	10767224.28	10767224.29	10767224.35	0.0089	0.0088
Moon	24786-09-21 13:12 G	10774224.00	10774224.05	10774224.15	0.0090	0.0086
Earth	24787-09-24 01:12 G	10774591.49	10774591.55	10774591.65	0.0090	0.0085
Moon	24787-09-24 01:26 G	10774591.56	10774591.56	10774591.60	0.0090	0.0089 *

Moon	24788-09-25 13:12 G	10774958.93	10774959.05	10774959.22	0.0090	0.0076
Earth	24788-09-25 14:24 G	10774959.01	10774959.10	10774959.24	0.0090	0.0080 *
Earth	24789-09-28 03:50 G	10775326.53	10775326.66	10775326.82	0.0090	0.0074
Moon	24789-09-28 05:45 G	10775326.64	10775326.74	10775326.88	0.0090	0.0079 *
Moon	24790-09-30 13:40 G	10775693.90	10775694.07	10775694.27	0.0090	0.0064
Earth	24790-09-30 16:48 G	10775694.06	10775694.20	10775694.39	0.0090	0.0069 *
Earth	24791-10-03 06:00 G	10776061.58	10776061.75	10776061.95	0.0090	0.0063
Moon	24791-10-03 09:36 G	10776061.74	10776061.90	10776062.07	0.0090	0.0067 *
Moon	24792-10-04 15:36 G	10776428.95	10776429.15	10776429.37	0.0090	0.0052
Earth	24792-10-04 19:12 G	10776429.12	10776429.30	10776429.52	0.0090	0.0057 *
Earth	24793-10-07 08:24 G	10776796.65	10776796.85	10776797.07	0.0090	0.0051
Moon	24793-10-07 11:16 G	10776796.79	10776796.97	10776797.20	0.0090	0.0056 *
Moon	24794-10-09 18:43 G	10777164.07	10777164.28	10777164.52	0.0090	0.0041
Earth	24794-10-09 21:21 G	10777164.18	10777164.39	10777164.62	0.0090	0.0045 *
Earth	24795-10-12 10:19 G	10777531.71	10777531.93	10777532.18	0.0090	0.0039
Moon	24795-10-12 11:45 G	10777531.78	10777531.99	10777532.25	0.0090	0.0044 *
Earth	24796-10-13 23:31 G	10777899.25	10777899.48	10777899.73	0.0090	0.0033
Moon	24796-10-13 23:16 G	10777899.25	10777899.47	10777899.72	0.0090	0.0029 *
Moon	24797-10-16 11:31 G	10778266.75	10778266.98	10778267.25	0.0090	0.0031
Earth	24797-10-16 12:14 G	10778266.78	10778267.01	10778267.28	0.0090	0.0027 *
Earth	24798-10-19 01:26 G	10778634.32	10778634.56	10778634.82	0.0090	0.0021
Moon	24798-10-19 03:21 G	10778634.40	10778634.64	10778634.90	0.0090	0.0016 *
Moon	24799-10-21 11:31 G	10779001.73	10779001.98	10779002.25	0.0090	0.0019
Earth	24799-10-21 14:52 G	10779001.87	10779002.12	10779002.38	0.0090	0.0014 *
Mars	24800-07-17 14:09 G	10779271.95	10779272.09	10779272.29	0.0090	0.0072
Earth	24800-10-23 03:50 G	10779369.41	10779369.66	10779369.93	0.0090	0.0008
Moon	24800-10-23 07:12 G	10779369.55	10779369.80	10779370.06	0.0090	0.0003 *
Moon	24801-10-25 13:26 G	10779736.80	10779737.06	10779737.32	0.0089	0.0006
Earth	24801-10-25 17:16 G	10779736.96	10779737.22	10779737.48	0.0089	0.0001 *
Mars	24802-06-11 02:52 G	10779965.34	10779965.62	10779965.91	0.0089	0.0003

Earth	24802-10-28 06:00 G	10780104.49	10780104.75	10780105.01	0.0089	0.0005
Moon	24802-10-28 09:21 G	10780104.63	10780104.89	10780105.15	0.0089	0.0010 *
Moon	24803-10-30 16:19 G	10780471.93	10780472.18	10780472.43	0.0089	0.0007
Earth	24803-10-30 18:57 G	10780472.04	10780472.29	10780472.55	0.0089	0.0012 *
Mars	24804-05-04 13:26 G	10780658.90	10780659.06	10780659.28	0.0089	0.0067
Earth	24804-11-01 07:55 G	10780839.58	10780839.83	10780840.09	0.0089	0.0018
Moon	24804-11-01 09:36 G	10780839.66	10780839.90	10780840.18	0.0089	0.0023 *
Moon	24805-11-03 19:55 G	10781207.10	10781207.33	10781207.59	0.0089	0.0021
Earth	24805-11-03 20:24 G	10781207.11	10781207.35	10781207.61	0.0089	0.0024 *
Moon	24806-11-06 09:07 G	10781574.63	10781574.88	10781575.13	0.0089	0.0034
Earth	24806-11-06 09:07 G	10781574.65	10781574.88	10781575.14	0.0089	0.0031 *
Earth	24807-11-08 21:50 G	10781942.19	10781942.41	10781942.66	0.0089	0.0037
Moon	24807-11-08 23:31 G	10781942.26	10781942.48	10781942.72	0.0089	0.0032 *
Moon	24808-11-10 07:40 G	10782309.61	10782309.82	10782310.06	0.0089	0.0047
Earth	24808-11-10 10:33 G	10782309.73	10782309.94	10782310.18	0.0089	0.0043 *
Earth	24809-11-12 23:02 G	10782677.26	10782677.46	10782677.69	0.0089	0.0049
Moon	24809-11-13 02:24 G	10782677.39	10782677.60	10782677.82	0.0089	0.0045 *
Moon	24810-11-15 07:55 G	10783044.65	10783044.83	10783045.04	0.0089	0.0059
Earth	24810-11-15 11:45 G	10783044.80	10783044.99	10783045.21	0.0089	0.0054 *
Earth	24811-11-18 00:14 G	10783412.34	10783412.51	10783412.71	0.0089	0.0061
Moon	24811-11-18 03:36 G	10783412.46	10783412.65	10783412.87	0.0089	0.0056 *
Moon	24812-11-19 09:50 G	10783779.77	10783779.91	10783780.09	0.0089	0.0070
Earth	24812-11-19 12:43 G	10783779.88	10783780.03	10783780.23	0.0089	0.0067 *
Earth	24813-11-22 01:40 G	10784147.42	10784147.57	10784147.72	0.0089	0.0072
Moon	24813-11-22 03:21 G	10784147.49	10784147.64	10784147.83	0.0089	0.0068 *
Moon	24814-11-24 12:57 G	10784514.97	10784515.04	10784515.17	0.0089	0.0081
Earth	24814-11-24 13:40 G	10784514.97	10784515.07	10784515.23	0.0089	0.0078 *
Moon	24815-11-27 02:24 G	10784882.50	10784882.60	10784882.74	0.0089	0.0080
Earth	24815-11-27 02:38 G	10784882.52	10784882.61	10784882.71	0.0089	0.0083 *
Earth	24816-11-28 14:24 G	10785250.09	10785250.10	10785250.17	0.0089	0.0088

Venus	24832-03-24 12:28 G	10790844.89	10790845.02	10790845.15	0.0089	0.0071
Venus	24832-11-05 01:12 G	10791070.38	10791070.55	10791070.74	0.0089	0.0052
Venus	24833-06-18 14:09 G	10791295.89	10791296.09	10791296.30	0.0089	0.0033
Venus	24834-01-30 02:52 G	10791521.41	10791521.62	10791521.85	0.0089	0.0014
Venus	24834-09-12 15:50 G	10791746.95	10791747.16	10791747.39	0.0089	0.0006
Venus	24835-04-26 04:33 G	10791972.49	10791972.69	10791972.91	0.0089	0.0026
Venus	24835-12-07 17:31 G	10792198.05	10792198.23	10792198.43	0.0089	0.0045
Venus	24836-07-20 06:14 G	10792423.62	10792423.76	10792423.93	0.0088	0.0064
Venus	24837-03-02 19:26 G	10792649.24	10792649.31	10792649.39	0.0088	0.0083
Saturn	24838-07-22 00:14 G	10793154.99	10793155.51	10793156.07	0.0088	0.0059
Mercury	24843-10-01 19:55 G	10795053.30	10795053.33	10795053.37	0.0088	0.0084
Mercury	24843-12-28 21:21 G	10795141.34	10795141.39	10795141.47	0.0088	0.0078
Mercury	24844-03-25 23:02 G	10795229.39	10795229.46	10795229.56	0.0088	0.0070
Mercury	24844-06-22 00:43 G	10795317.44	10795317.53	10795317.64	0.0088	0.0063
Mercury	24844-09-18 02:09 G	10795405.50	10795405.59	10795405.72	0.0088	0.0057
Mercury	24844-12-15 04:04 G	10795493.56	10795493.67	10795493.79	0.0088	0.0049
Mercury	24845-03-13 05:45 G	10795581.62	10795581.74	10795581.87	0.0088	0.0041
Mercury	24845-06-09 07:26 G	10795669.68	10795669.81	10795669.95	0.0088	0.0034
Mercury	24845-09-05 09:07 G	10795757.74	10795757.88	10795758.02	0.0088	0.0027
Mercury	24845-12-02 10:48 G	10795845.81	10795845.95	10795846.09	0.0088	0.0020
Mercury	24846-02-28 12:28 G	10795933.88	10795934.02	10795934.17	0.0088	0.0012
Mercury	24846-05-27 14:09 G	10796021.95	10796022.09	10796022.24	0.0088	0.0005
Mercury	24846-08-23 15:50 G	10796110.02	10796110.16	10796110.31	0.0088	0.0003
Mercury	24846-11-19 17:31 G	10796198.09	10796198.23	10796198.38	0.0088	0.0010
Mercury	24847-02-15 19:12 G	10796286.16	10796286.30	10796286.45	0.0088	0.0017
Mercury	24847-05-14 20:52 G	10796374.24	10796374.37	10796374.52	0.0088	0.0025
Mercury	24847-08-10 22:33 G	10796462.31	10796462.44	10796462.58	0.0088	0.0032
Mercury	24847-11-07 00:28 G	10796550.39	10796550.52	10796550.65	0.0088	0.0039
Mercury	24848-02-03 01:55 G	10796638.47	10796638.58	10796638.72	0.0088	0.0047
Mercury	24848-05-01 03:50 G	10796726.55	10796726.66	10796726.78	0.0088	0.0055



Mercury	24848-07-28 05:31 G	10796814.63	10796814.73	10796814.84	0.0088	0.0062
Mercury	24848-10-24 07:26 G	10796902.72	10796902.81	10796902.90	0.0088	0.0070
Mercury	24849-01-20 08:52 G	10796990.81	10796990.87	10796990.95	0.0088	0.0077
Mercury	24849-04-18 10:33 G	10797078.92	10797078.94	10797079.00	0.0088	0.0085
Jupiter	24864-07-17 08:38 G	10802647.63	10802647.86	10802648.18	0.0088	0.0077
Earth	24869-03-23 11:45 G	10804357.98	10804357.99	10804358.05	0.0088	0.0087
Moon	24869-03-23 12:14 G	10804357.98	10804358.01	10804358.08	0.0088	0.0086 *
Moon	24870-03-25 20:52 G	10804725.30	10804725.37	10804725.46	0.0088	0.0083
Earth	24870-03-25 21:50 G	10804725.35	10804725.41	10804725.53	0.0088	0.0082 *
Earth	24871-03-28 07:55 G	10805092.74	10805092.83	10805092.98	0.0088	0.0077
Moon	24871-03-28 10:48 G	10805092.85	10805092.95	10805093.11	0.0088	0.0076 *
Moon	24872-03-29 15:36 G	10805460.00	10805460.15	10805460.30	0.0088	0.0072
Earth	24872-03-29 18:43 G	10805460.14	10805460.28	10805460.44	0.0088	0.0071 *
Earth	24873-04-01 04:33 G	10805827.54	10805827.69	10805827.88	0.0088	0.0066
Moon	24873-04-01 07:55 G	10805827.68	10805827.83	10805828.03	0.0088	0.0064 *
Moon	24874-04-03 11:31 G	10806194.82	10806194.98	10806195.18	0.0088	0.0062
Earth	24874-04-03 14:38 G	10806194.95	10806195.11	10806195.32	0.0088	0.0061 *
Earth	24875-04-06 01:12 G	10806562.36	10806562.55	10806562.76	0.0088	0.0055
Moon	24875-04-06 03:50 G	10806562.46	10806562.66	10806562.88	0.0088	0.0053 *
Moon	24876-04-07 09:21 G	10806929.71	10806929.89	10806930.11	0.0088	0.0052
Earth	24876-04-07 11:31 G	10806929.78	10806929.98	10806930.20	0.0088	0.0049 *
Earth	24877-04-09 21:36 G	10807297.20	10807297.40	10807297.65	0.0088	0.0044
Moon	24877-04-09 22:04 G	10807297.20	10807297.42	10807297.67	0.0088	0.0042 *
Earth	24878-04-12 08:09 G	10807664.63	10807664.84	10807665.09	0.0088	0.0038
Moon	24878-04-12 08:52 G	10807664.67	10807664.87	10807665.12	0.0088	0.0040 *
Moon	24879-04-14 16:48 G	10808031.96	10808032.20	10808032.46	0.0088	0.0030
Earth	24879-04-14 18:43 G	10808032.05	10808032.28	10808032.53	0.0088	0.0032 *
Earth	24880-04-16 05:02 G	10808399.47	10808399.71	10808399.96	0.0088	0.0026
Moon	24880-04-16 08:09 G	10808399.61	10808399.84	10808400.09	0.0088	0.0028 *
Moon	24881-04-18 12:14 G	10808766.76	10808767.01	10808767.26	0.0088	0.0018

Earth	24881-04-18 15:36 G	10808766.90	10808767.15	10808767.40	0.0088	0.0020	*
Earth	24882-04-21 01:40 G	10809134.32	10809134.57	10809134.83	0.0088	0.0014	
Moon	24882-04-21 05:16 G	10809134.48	10809134.72	10809134.98	0.0088	0.0017	*
Moon	24883-04-23 09:07 G	10809501.63	10809501.88	10809502.14	0.0088	0.0006	
Earth	24883-04-23 12:14 G	10809501.76	10809502.01	10809502.27	0.0088	0.0008	*
Mars	24884-04-08 01:26 G	10809852.26	10809852.56	10809852.89	0.0088	0.0038	
Earth	24884-04-24 22:33 G	10809869.18	10809869.44	10809869.69	0.0088	0.0002	
Moon	24884-04-25 00:43 G	10809869.27	10809869.53	10809869.80	0.0088	0.0005	*
Moon	24885-04-27 07:12 G	10810236.56	10810236.80	10810237.06	0.0088	0.0007	
Earth	24885-04-27 08:52 G	10810236.61	10810236.87	10810237.13	0.0088	0.0004	*
Mars	24886-03-05 13:40 G	10810548.79	10810549.07	10810549.40	0.0088	0.0043	
Moon	24886-04-29 18:57 G	10810604.03	10810604.29	10810604.56	0.0088	0.0008	
Earth	24886-04-29 19:26 G	10810604.05	10810604.31	10810604.56	0.0088	0.0010	*
Earth	24887-05-02 05:31 G	10810971.48	10810971.73	10810971.99	0.0088	0.0016	
Moon	24887-05-02 06:57 G	10810971.54	10810971.79	10810972.03	0.0088	0.0018	*
Moon	24888-05-03 14:09 G	10811338.83	10811339.09	10811339.34	0.0088	0.0019	
Earth	24888-05-03 16:04 G	10811338.93	10811339.17	10811339.43	0.0088	0.0022	*
Earth	24889-05-06 02:38 G	10811706.37	10811706.61	10811706.86	0.0088	0.0028	
Moon	24889-05-06 05:45 G	10811706.52	10811706.74	10811706.99	0.0088	0.0031	*
Moon	24890-05-08 09:36 G	10812073.68	10812073.90	10812074.16	0.0088	0.0032	
Earth	24890-05-08 13:26 G	10812073.83	10812074.06	10812074.30	0.0088	0.0034	*
Earth	24891-05-10 23:45 G	10812441.28	10812441.49	10812441.74	0.0088	0.0040	
Moon	24891-05-11 03:50 G	10812441.44	10812441.66	10812441.89	0.0088	0.0043	*
Moon	24892-05-12 07:55 G	10812808.62	10812808.83	10812809.05	0.0088	0.0043	
Earth	24892-05-12 10:33 G	10812808.73	10812808.94	10812809.17	0.0088	0.0046	*
Earth	24893-05-14 21:07 G	10813176.19	10813176.38	10813176.61	0.0088	0.0052	
Moon	24893-05-14 23:45 G	10813176.28	10813176.49	10813176.70	0.0088	0.0054	*
Moon	24894-05-17 06:57 G	10813543.60	10813543.79	10813543.99	0.0088	0.0054	
Earth	24894-05-17 08:09 G	10813543.65	10813543.84	10813544.04	0.0088	0.0057	*
Moon	24895-05-19 18:14 G	10813911.09	10813911.26	10813911.44	0.0088	0.0065	

Earth	24895-05-19 18:28 G	10813911.11	10813911.27	10813911.47	0.0088	0.0063	*
Earth	24896-05-21 05:02 G	10814278.58	10814278.71	10814278.90	0.0088	0.0069	
Moon	24896-05-21 06:43 G	10814278.64	10814278.78	10814278.97	0.0088	0.0066	*
Moon	24897-05-23 13:40 G	10814645.96	10814646.07	10814646.21	0.0088	0.0077	
Earth	24897-05-23 16:04 G	10814646.06	10814646.17	10814646.33	0.0088	0.0074	*
Earth	24898-05-26 03:07 G	10815013.53	10815013.63	10815013.75	0.0088	0.0080	
Moon	24898-05-26 06:43 G	10815013.66	10815013.78	10815013.91	0.0088	0.0077	*
Moon	24899-05-28 10:33 G	10815380.94	10815380.94	10815380.97	0.0088	0.0088	
Earth	24899-05-28 13:40 G	10815381.03	10815381.07	10815381.17	0.0088	0.0085	
Moon	24900-05-31 04:19 G	10815748.65	10815748.68	10815748.76	0.0088	0.0086	
Venus	24915-08-04 19:12 G	10821292.20	10821292.30	10821292.45	0.0089	0.0073	
Venus	24916-03-17 08:38 G	10821517.69	10821517.86	10821518.04	0.0089	0.0053	
Venus	24916-10-28 21:36 G	10821743.21	10821743.40	10821743.62	0.0089	0.0034	
Venus	24917-06-11 11:02 G	10821968.74	10821968.96	10821969.18	0.0089	0.0014	
Venus	24918-01-23 00:00 G	10822194.29	10822194.50	10822194.73	0.0089	0.0006	
Venus	24918-09-05 12:57 G	10822419.84	10822420.04	10822420.26	0.0089	0.0025	
Venus	24919-04-19 02:24 G	10822645.41	10822645.60	10822645.79	0.0089	0.0044	
Venus	24919-11-30 15:07 G	10822871.00	10822871.13	10822871.30	0.0089	0.0064	
Venus	24920-07-13 04:19 G	10823096.61	10823096.68	10823096.76	0.0089	0.0083	
Mercury	24927-09-19 14:09 G	10825721.04	10825721.09	10825721.18	0.0089	0.0082	
Mercury	24927-12-16 17:02 G	10825809.12	10825809.21	10825809.33	0.0089	0.0072	
Mercury	24928-03-13 19:40 G	10825897.22	10825897.32	10825897.46	0.0089	0.0063	
Mercury	24928-06-09 22:48 G	10825985.32	10825985.45	10825985.60	0.0089	0.0054	
Mercury	24928-09-06 01:40 G	10826073.42	10826073.57	10826073.72	0.0089	0.0044	
Mercury	24928-12-03 04:19 G	10826161.53	10826161.68	10826161.85	0.0089	0.0035	
Mercury	24929-03-01 07:12 G	10826249.64	10826249.80	10826249.97	0.0089	0.0026	
Mercury	24929-05-28 09:50 G	10826337.75	10826337.91	10826338.08	0.0089	0.0017	
Mercury	24929-08-24 12:43 G	10826425.86	10826426.03	10826426.20	0.0089	0.0008	
Mercury	24929-11-20 15:21 G	10826513.97	10826514.14	10826514.31	0.0089	0.0001	
Mercury	24930-02-16 18:00 G	10826602.08	10826602.25	10826602.42	0.0089	0.0010	

Mercury	24930-05-15 20:38 G	10826690.20	10826690.36	10826690.53	0.0089	0.0019
Mercury	24930-08-11 23:16 G	10826778.32	10826778.47	10826778.64	0.0089	0.0028
Mercury	24930-11-08 02:09 G	10826866.43	10826866.59	10826866.74	0.0089	0.0037
Mercury	24931-02-04 04:48 G	10826954.55	10826954.70	10826954.84	0.0089	0.0045
Mercury	24931-05-03 07:12 G	10827042.68	10827042.80	10827042.94	0.0089	0.0054
Mercury	24931-07-30 09:50 G	10827130.80	10827130.91	10827131.04	0.0089	0.0063
Mercury	24931-10-26 12:14 G	10827218.93	10827219.01	10827219.13	0.0089	0.0072
Mercury	24932-01-22 15:07 G	10827307.06	10827307.13	10827307.21	0.0089	0.0080
Mercury	24932-04-19 17:45 G	10827395.24	10827395.24	10827395.25	0.0089	0.0089
Earth	24952-09-25 18:57 G	10834859.23	10834859.29	10834859.39	0.0090	0.0085
Moon	24952-09-25 21:36 G	10834859.33	10834859.40	10834859.53	0.0090	0.0083 *
Moon	24953-09-28 05:02 G	10835226.62	10835226.71	10835226.84	0.0090	0.0081
Earth	24953-09-28 08:24 G	10835226.75	10835226.85	10835226.99	0.0090	0.0079 *
Earth	24954-09-30 21:07 G	10835594.27	10835594.38	10835594.56	0.0090	0.0074
Moon	24954-10-01 01:26 G	10835594.41	10835594.56	10835594.73	0.0090	0.0071 *
Moon	24955-10-03 07:26 G	10835961.68	10835961.81	10835962.00	0.0090	0.0070
Earth	24955-10-03 10:33 G	10835961.80	10835961.94	10835962.14	0.0090	0.0068 *
Earth	24956-10-04 23:45 G	10836329.33	10836329.49	10836329.71	0.0090	0.0062
Moon	24956-10-05 02:52 G	10836329.45	10836329.62	10836329.84	0.0090	0.0061 *
Moon	24957-10-07 11:45 G	10836696.80	10836696.99	10836697.19	0.0090	0.0057
Earth	24957-10-07 13:26 G	10836696.86	10836697.06	10836697.27	0.0090	0.0055 *
Earth	24958-10-10 02:24 G	10837064.39	10837064.60	10837064.82	0.0090	0.0049
Moon	24958-10-10 02:52 G	10837064.41	10837064.62	10837064.86	0.0090	0.0048 *
Earth	24959-10-12 15:21 G	10837431.93	10837432.14	10837432.38	0.0090	0.0043
Moon	24959-10-12 15:36 G	10837431.94	10837432.15	10837432.38	0.0090	0.0044 *
Moon	24960-10-14 02:24 G	10837799.37	10837799.60	10837799.86	0.0090	0.0035
Earth	24960-10-14 04:19 G	10837799.46	10837799.68	10837799.93	0.0090	0.0037 *
Earth	24961-10-16 17:31 G	10838166.99	10838167.23	10838167.48	0.0090	0.0030
Moon	24961-10-16 20:09 G	10838167.11	10838167.34	10838167.58	0.0090	0.0031 *
Moon	24962-10-19 03:07 G	10838534.39	10838534.63	10838534.89	0.0090	0.0023

Earth	24962-10-19 06:28 G	10838534.53	10838534.77	10838535.03	0.0090	0.0024	*
Earth	24963-10-21 19:40 G	10838902.06	10838902.32	10838902.57	0.0090	0.0017	
Moon	24963-10-21 23:16 G	10838902.22	10838902.47	10838902.73	0.0090	0.0018	*
Moon	24964-10-23 05:16 G	10839269.47	10839269.72	10839269.98	0.0090	0.0010	
Earth	24964-10-23 08:38 G	10839269.61	10839269.86	10839270.12	0.0090	0.0011	*
Earth	24965-10-25 21:21 G	10839637.14	10839637.39	10839637.66	0.0090	0.0005	
Moon	24965-10-26 00:43 G	10839637.27	10839637.53	10839637.80	0.0090	0.0004	*
Mars	24966-01-25 12:43 G	10839728.77	10839729.03	10839729.31	0.0090	0.0030	
Moon	24966-10-28 08:52 G	10840004.62	10840004.87	10840005.12	0.0090	0.0003	
Earth	24966-10-28 10:48 G	10840004.69	10840004.95	10840005.20	0.0090	0.0003	*
Earth	24967-10-30 23:31 G	10840372.23	10840372.48	10840372.75	0.0089	0.0010	
Moon	24967-10-31 00:43 G	10840372.27	10840372.53	10840372.80	0.0089	0.0010	*
Mars	24967-12-20 00:43 G	10840422.30	10840422.53	10840422.81	0.0089	0.0040	
Earth	24968-11-01 12:28 G	10840739.77	10840740.02	10840740.28	0.0089	0.0016	
Moon	24968-11-01 12:28 G	10840739.78	10840740.02	10840740.27	0.0089	0.0015	*
Moon	24969-11-03 23:31 G	10841107.23	10841107.48	10841107.75	0.0089	0.0022	
Earth	24969-11-04 01:26 G	10841107.31	10841107.56	10841107.82	0.0089	0.0022	*
Earth	24970-11-06 13:55 G	10841474.85	10841475.08	10841475.34	0.0089	0.0029	
Moon	24970-11-06 16:19 G	10841474.95	10841475.18	10841475.43	0.0089	0.0028	*
Moon	24971-11-08 23:31 G	10841842.26	10841842.48	10841842.74	0.0089	0.0036	
Earth	24971-11-09 02:52 G	10841842.39	10841842.62	10841842.87	0.0089	0.0035	*
Earth	24972-11-10 15:07 G	10842209.92	10842210.13	10842210.38	0.0089	0.0042	
Moon	24972-11-10 18:57 G	10842210.08	10842210.29	10842210.54	0.0089	0.0041	*
Moon	24973-11-13 00:43 G	10842577.32	10842577.53	10842577.75	0.0089	0.0049	
Earth	24973-11-13 03:50 G	10842577.46	10842577.66	10842577.90	0.0089	0.0048	*
Earth	24974-11-15 16:33 G	10842945.00	10842945.19	10842945.41	0.0089	0.0054	
Moon	24974-11-15 19:40 G	10842945.13	10842945.32	10842945.56	0.0089	0.0052	*
Moon	24975-11-18 02:52 G	10843312.46	10843312.62	10843312.83	0.0089	0.0062	
Earth	24975-11-18 05:16 G	10843312.54	10843312.72	10843312.92	0.0089	0.0060	*
Earth	24976-11-19 17:31 G	10843680.08	10843680.23	10843680.43	0.0089	0.0066	

Moon	24976-11-19 18:57 G	10843680.12	10843680.29	10843680.50	0.0089	0.0064 *
Earth	24977-11-22 06:00 G	10844047.62	10844047.75	10844047.93	0.0089	0.0072
Moon	24977-11-22 06:14 G	10844047.63	10844047.76	10844047.90	0.0089	0.0074 *
Moon	24978-11-24 17:16 G	10844415.10	10844415.22	10844415.38	0.0089	0.0075
Earth	24978-11-24 18:43 G	10844415.18	10844415.28	10844415.43	0.0089	0.0077 *
Earth	24979-11-27 07:40 G	10844782.73	10844782.82	10844782.92	0.0089	0.0083
Moon	24979-11-27 09:07 G	10844782.84	10844782.88	10844782.98	0.0089	0.0086 *
Moon	24980-11-28 16:48 G	10845150.15	10845150.20	10845150.30	0.0089	0.0086
Earth	24980-11-28 19:55 G	10845150.32	10845150.33	10845150.39	0.0089	0.0088
Venus	24996-06-26 20:52 G	10850839.31	10850839.37	10850839.49	0.0089	0.0081
Venus	24997-02-07 10:19 G	10851064.78	10851064.93	10851065.09	0.0089	0.0061
Venus	24997-09-20 23:02 G	10851290.28	10851290.46	10851290.67	0.0089	0.0042
Venus	24998-05-04 12:00 G	10851515.80	10851516.00	10851516.22	0.0089	0.0023
Venus	24998-12-16 01:12 G	10851741.33	10851741.55	10851741.77	0.0089	0.0003
Venus	24999-07-29 13:55 G	10851966.86	10851967.08	10851967.30	0.0089	0.0016
Venus	25000-03-12 02:24 G	10852192.41	10852192.60	10852192.82	0.0089	0.0036
Venus	25000-10-23 15:21 G	10852417.98	10852418.14	10852418.33	0.0089	0.0055

# 26TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 26th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	25001-06-06 04:04 G		10852643.57	10852643.67	10852643.81	0.0089	0.0074	

Mercury	25008-06-29 18:57 G	10855224.25	10855224.29	10855224.34	0.0088	0.0083
Mercury	25008-09-25 20:38 G	10855312.29	10855312.36	10855312.44	0.0088	0.0075
Mercury	25008-12-22 22:04 G	10855400.34	10855400.42	10855400.52	0.0088	0.0069
Mercury	25009-03-20 23:45 G	10855488.40	10855488.49	10855488.60	0.0088	0.0061
Mercury	25009-06-17 01:26 G	10855576.45	10855576.56	10855576.68	0.0088	0.0054
Mercury	25009-09-13 02:52 G	10855664.51	10855664.62	10855664.76	0.0088	0.0048
Mercury	25009-12-10 04:48 G	10855752.58	10855752.70	10855752.83	0.0088	0.0040
Mercury	25010-03-08 06:28 G	10855840.64	10855840.77	10855840.91	0.0088	0.0032
Mercury	25010-06-04 08:09 G	10855928.70	10855928.84	10855928.98	0.0088	0.0025
Mercury	25010-08-31 09:50 G	10856016.77	10856016.91	10856017.05	0.0088	0.0018
Mercury	25010-11-27 11:31 G	10856104.84	10856104.98	10856105.13	0.0088	0.0010
Mercury	25011-02-23 13:12 G	10856192.91	10856193.05	10856193.20	0.0088	0.0003
Mercury	25011-05-22 14:52 G	10856280.98	10856281.12	10856281.27	0.0088	0.0004
Mercury	25011-08-18 16:33 G	10856369.05	10856369.19	10856369.34	0.0088	0.0012
Mercury	25011-11-14 18:14 G	10856457.12	10856457.26	10856457.41	0.0088	0.0019
Mercury	25012-02-10 19:55 G	10856545.19	10856545.33	10856545.47	0.0088	0.0027
Mercury	25012-05-08 21:36 G	10856633.27	10856633.40	10856633.54	0.0088	0.0034
Mercury	25012-08-04 23:16 G	10856721.35	10856721.47	10856721.61	0.0088	0.0042
Mercury	25012-11-01 00:57 G	10856809.43	10856809.54	10856809.67	0.0088	0.0049
Mercury	25013-01-28 02:52 G	10856897.51	10856897.62	10856897.73	0.0088	0.0056
Mercury	25013-04-26 04:19 G	10856985.59	10856985.68	10856985.79	0.0088	0.0064
Mercury	25013-07-23 06:14 G	10857073.68	10857073.76	10857073.85	0.0088	0.0071
Mercury	25013-10-19 07:55 G	10857161.78	10857161.83	10857161.90	0.0088	0.0079
Mercury	25014-01-15 09:50 G	10857249.89	10857249.91	10857249.94	0.0088	0.0086
Jupiter	25030-09-17 11:45 G	10863338.44	10863338.99	10863339.57	0.0088	0.0009
Moon	25033-03-24 18:28 G	10864258.26	10864258.27	10864258.32	0.0088	0.0087
Earth	25034-03-27 07:26 G	10864625.77	10864625.81	10864625.86	0.0088	0.0086
Moon	25035-03-29 13:55 G	10864992.96	10864993.08	10864993.21	0.0088	0.0076
Earth	25035-03-29 17:31 G	10864993.14	10864993.23	10864993.34	0.0088	0.0081 *
Earth	25036-03-31 03:07 G	10865360.53	10865360.63	10865360.78	0.0088	0.0076

Moon	25036-03-31 06:43 G	10865360.69	10865360.78	10865360.90	0.0088	0.0080	*
Moon	25037-04-02 10:33 G	10865727.79	10865727.94	10865728.12	0.0088	0.0066	
Earth	25037-04-02 13:40 G	10865727.93	10865728.07	10865728.24	0.0088	0.0070	*
Earth	25038-04-04 23:31 G	10866095.33	10866095.48	10866095.68	0.0088	0.0065	
Moon	25038-04-05 01:55 G	10866095.44	10866095.58	10866095.77	0.0088	0.0069	*
Moon	25039-04-07 09:07 G	10866462.70	10866462.88	10866463.09	0.0088	0.0055	
Earth	25039-04-07 09:50 G	10866462.74	10866462.91	10866463.12	0.0088	0.0059	*
Earth	25040-04-08 20:09 G	10866830.15	10866830.34	10866830.56	0.0088	0.0053	
Moon	25040-04-08 20:09 G	10866830.16	10866830.34	10866830.56	0.0088	0.0057	*
Earth	25041-04-11 06:43 G	10867197.57	10867197.78	10867198.00	0.0088	0.0047	
Moon	25041-04-11 07:55 G	10867197.63	10867197.83	10867198.07	0.0088	0.0043	*
Moon	25042-04-13 13:55 G	10867564.88	10867565.08	10867565.33	0.0088	0.0046	
Earth	25042-04-13 17:02 G	10867564.99	10867565.21	10867565.44	0.0088	0.0041	*
Earth	25043-04-16 02:52 G	10867932.41	10867932.62	10867932.88	0.0088	0.0036	
Moon	25043-04-16 06:28 G	10867932.53	10867932.77	10867933.01	0.0088	0.0031	*
Moon	25044-04-17 09:50 G	10868299.69	10868299.91	10868300.16	0.0088	0.0034	
Earth	25044-04-17 13:55 G	10868299.84	10868300.08	10868300.32	0.0088	0.0029	*
Earth	25045-04-20 00:14 G	10868667.26	10868667.51	10868667.76	0.0088	0.0023	
Moon	25045-04-20 03:21 G	10868667.39	10868667.64	10868667.90	0.0088	0.0019	*
Moon	25046-04-22 07:40 G	10869034.58	10869034.82	10869035.07	0.0088	0.0021	
Earth	25046-04-22 10:33 G	10869034.70	10869034.94	10869035.20	0.0088	0.0017	*
Earth	25047-04-24 20:52 G	10869402.12	10869402.37	10869402.63	0.0088	0.0011	
Moon	25047-04-24 22:48 G	10869402.19	10869402.45	10869402.72	0.0088	0.0006	*
Mars	25047-11-22 04:48 G	10869613.48	10869613.70	10869613.93	0.0088	0.0067	
Moon	25048-04-26 06:43 G	10869769.54	10869769.78	10869770.04	0.0088	0.0009	
Earth	25048-04-26 07:12 G	10869769.55	10869769.80	10869770.06	0.0088	0.0005	*
Moon	25049-04-28 17:16 G	10870136.96	10870137.22	10870137.49	0.0088	0.0006	
Earth	25049-04-28 17:45 G	10870136.98	10870137.24	10870137.50	0.0088	0.0002	*
Mars	25049-10-18 17:02 G	10870309.88	10870310.21	10870310.58	0.0088	0.0014	
Earth	25050-05-01 04:04 G	10870504.41	10870504.67	10870504.93	0.0088	0.0008	



Moon	25050-05-01 06:00 G	10870504.50	10870504.75	10870505.00	0.0088	0.0004 *
Moon	25051-05-03 11:31 G	10870871.73	10870871.98	10870872.24	0.0088	0.0018
Earth	25051-05-03 14:24 G	10870871.85	10870872.10	10870872.36	0.0088	0.0014 *
Earth	25052-05-05 00:57 G	10871239.29	10871239.54	10871239.79	0.0088	0.0020
Moon	25052-05-05 03:50 G	10871239.43	10871239.66	10871239.93	0.0088	0.0017 *
Moon	25053-05-07 07:40 G	10871606.59	10871606.82	10871607.07	0.0088	0.0031
Earth	25053-05-07 11:31 G	10871606.74	10871606.98	10871607.23	0.0088	0.0026 *
Earth	25054-05-09 21:50 G	10871974.18	10871974.41	10871974.66	0.0088	0.0033
Moon	25054-05-10 00:57 G	10871974.31	10871974.54	10871974.80	0.0088	0.0029 *
Moon	25055-05-12 06:00 G	10872341.53	10872341.75	10872341.97	0.0088	0.0042
Earth	25055-05-12 08:24 G	10872341.64	10872341.85	10872342.10	0.0088	0.0039 *
Earth	25056-05-13 19:12 G	10872709.09	10872709.30	10872709.54	0.0088	0.0045
Moon	25056-05-13 20:38 G	10872709.14	10872709.36	10872709.61	0.0088	0.0041 *
Earth	25057-05-16 06:00 G	10873076.56	10873076.75	10873076.98	0.0088	0.0051
Moon	25057-05-16 06:14 G	10873076.57	10873076.76	10873076.96	0.0088	0.0054 *
Moon	25058-05-18 16:04 G	10873443.97	10873444.17	10873444.40	0.0088	0.0053
Earth	25058-05-18 16:33 G	10873444.02	10873444.19	10873444.41	0.0088	0.0057 *
Earth	25059-05-21 03:50 G	10873811.48	10873811.66	10873811.84	0.0088	0.0062
Moon	25059-05-21 05:31 G	10873811.60	10873811.73	10873811.92	0.0088	0.0067 *
Moon	25060-05-22 11:16 G	10874178.81	10874178.97	10874179.16	0.0088	0.0064
Earth	25060-05-22 14:38 G	10874178.95	10874179.11	10874179.28	0.0088	0.0068 *
Earth	25061-05-25 00:57 G	10874546.43	10874546.54	10874546.70	0.0088	0.0074
Moon	25061-05-25 04:04 G	10874546.59	10874546.67	10874546.82	0.0088	0.0078 *
Moon	25062-05-27 07:55 G	10874913.74	10874913.83	10874913.99	0.0088	0.0077
Earth	25062-05-27 11:45 G	10874913.91	10874913.99	10874914.13	0.0088	0.0080 *
Earth	25063-05-29 22:33 G	10875281.40	10875281.44	10875281.53	0.0088	0.0086
Moon	25064-05-31 07:26 G	10875648.79	10875648.81	10875648.84	0.0088	0.0088
Venus	25079-11-07 05:02 G	10881286.63	10881286.71	10881286.80	0.0089	0.0081
Venus	25080-06-19 17:45 G	10881512.10	10881512.24	10881512.42	0.0089	0.0062
Venus	25081-01-31 06:57 G	10881737.61	10881737.79	10881738.00	0.0089	0.0043

Venus	25081-09-13 20:09 G	10881963.14	10881963.34	10881963.56	0.0089	0.0023
Venus	25082-04-27 09:36 G	10882188.68	10882188.90	10882189.12	0.0089	0.0004
Venus	25082-12-08 22:48 G	10882414.23	10882414.45	10882414.66	0.0089	0.0016
Venus	25083-07-22 11:31 G	10882639.79	10882639.98	10882640.19	0.0089	0.0036
Venus	25084-03-04 00:28 G	10882865.36	10882865.52	10882865.71	0.0089	0.0055
Venus	25084-10-15 13:55 G	10883090.97	10883091.08	10883091.20	0.0089	0.0074
Mercury	25092-03-20 09:50 G	10885803.90	10885803.91	10885803.95	0.0089	0.0088
Mercury	25092-06-16 12:57 G	10885891.96	10885892.04	10885892.12	0.0089	0.0078
Mercury	25092-09-12 15:36 G	10885980.05	10885980.15	10885980.27	0.0089	0.0069
Mercury	25092-12-09 18:28 G	10886068.15	10886068.27	10886068.41	0.0089	0.0060
Mercury	25093-03-07 21:07 G	10886156.25	10886156.38	10886156.54	0.0089	0.0051
Mercury	25093-06-04 00:00 G	10886244.36	10886244.50	10886244.66	0.0089	0.0042
Mercury	25093-08-31 02:52 G	10886332.46	10886332.62	10886332.79	0.0089	0.0033
Mercury	25093-11-27 05:45 G	10886420.57	10886420.74	10886420.91	0.0089	0.0023
Mercury	25094-02-23 08:24 G	10886508.68	10886508.85	10886509.02	0.0089	0.0014
Mercury	25094-05-22 11:16 G	10886596.80	10886596.97	10886597.14	0.0089	0.0005
Mercury	25094-08-18 13:55 G	10886684.91	10886685.08	10886685.25	0.0089	0.0004
Mercury	25094-11-14 16:33 G	10886773.02	10886773.19	10886773.36	0.0089	0.0013
Mercury	25095-02-10 19:12 G	10886861.14	10886861.30	10886861.47	0.0089	0.0022
Mercury	25095-05-09 22:04 G	10886949.26	10886949.42	10886949.58	0.0089	0.0031
Mercury	25095-08-06 00:43 G	10887037.38	10887037.53	10887037.68	0.0089	0.0039
Mercury	25095-11-02 03:21 G	10887125.50	10887125.64	10887125.78	0.0089	0.0048
Mercury	25096-01-29 05:45 G	10887213.62	10887213.74	10887213.88	0.0089	0.0057
Mercury	25096-04-26 08:24 G	10887301.75	10887301.85	10887301.97	0.0089	0.0066
Mercury	25096-07-23 11:16 G	10887389.88	10887389.97	10887390.06	0.0089	0.0075
Mercury	25096-10-19 13:40 G	10887478.02	10887478.07	10887478.14	0.0089	0.0083
Earth	25116-09-27 00:57 G	10894759.54	10894759.54	10894759.55	0.0090	0.0090
Earth	25117-09-29 13:40 G	10895126.99	10895127.07	10895127.17	0.0090	0.0084
Moon	25117-09-29 17:02 G	10895127.11	10895127.21	10895127.34	0.0090	0.0080 *
Moon	25118-10-02 00:00 G	10895494.41	10895494.50	10895494.61	0.0090	0.0082

Earth	25118-10-02 02:52 G	10895494.51	10895494.62	10895494.76	0.0090	0.0078	*
Earth	25119-10-04 16:19 G	10895862.04	10895862.18	10895862.34	0.0090	0.0072	
Moon	25119-10-04 17:45 G	10895862.10	10895862.24	10895862.44	0.0090	0.0069	*
Moon	25120-10-06 04:04 G	10896229.53	10896229.67	10896229.84	0.0090	0.0070	
Earth	25120-10-06 05:31 G	10896229.57	10896229.73	10896229.91	0.0090	0.0066	*
Moon	25121-10-08 18:14 G	10896597.08	10896597.26	10896597.50	0.0090	0.0056	
Earth	25121-10-08 18:43 G	10896597.10	10896597.28	10896597.48	0.0090	0.0060	*
Earth	25122-10-11 07:40 G	10896964.64	10896964.82	10896965.05	0.0090	0.0054	
Moon	25122-10-11 09:36 G	10896964.72	10896964.90	10896965.10	0.0090	0.0057	*
Moon	25123-10-13 18:57 G	10897332.07	10897332.29	10897332.54	0.0090	0.0043	
Earth	25123-10-13 21:21 G	10897332.17	10897332.39	10897332.61	0.0090	0.0047	*
Earth	25124-10-15 10:04 G	10897699.71	10897699.92	10897700.17	0.0090	0.0041	
Moon	25124-10-15 13:26 G	10897699.85	10897700.06	10897700.29	0.0090	0.0045	*
Moon	25125-10-17 19:40 G	10898067.09	10898067.32	10898067.58	0.0090	0.0030	
Earth	25125-10-17 23:16 G	10898067.24	10898067.47	10898067.72	0.0090	0.0034	*
Earth	25126-10-20 12:28 G	10898434.77	10898435.02	10898435.27	0.0090	0.0027	
Moon	25126-10-20 15:50 G	10898434.93	10898435.16	10898435.41	0.0090	0.0032	*
Moon	25127-10-22 22:19 G	10898802.18	10898802.43	10898802.68	0.0090	0.0016	
Earth	25127-10-23 01:26 G	10898802.31	10898802.56	10898802.82	0.0090	0.0021	*
Earth	25128-10-24 14:09 G	10899169.84	10899170.09	10899170.35	0.0090	0.0014	
Moon	25128-10-24 16:33 G	10899169.93	10899170.19	10899170.45	0.0090	0.0018	*
Mars	25129-09-12 02:09 G	10899492.40	10899492.59	10899492.84	0.0090	0.0056	
Moon	25129-10-27 01:40 G	10899537.32	10899537.57	10899537.82	0.0090	0.0003	
Earth	25129-10-27 03:21 G	10899537.38	10899537.64	10899537.90	0.0090	0.0007	*
Moon	25130-10-29 16:33 G	10899904.92	10899905.19	10899905.46	0.0090	0.0005	
Earth	25130-10-29 16:19 G	10899904.93	10899905.18	10899905.44	0.0090	0.0002	*
Mars	25131-08-06 13:12 G	10900185.78	10900186.05	10900186.34	0.0089	0.0014	
Earth	25131-11-01 05:16 G	10900272.47	10900272.72	10900272.99	0.0089	0.0007	
Moon	25131-11-01 06:28 G	10900272.53	10900272.77	10900273.02	0.0089	0.0011	*
Moon	25132-11-02 16:33 G	10900639.93	10900640.19	10900640.46	0.0089	0.0009	

Earth	25132-11-02 18:14 G	10900640.02	10900640.26	10900640.53	0.0089	0.0014	*
Mars	25133-06-30 01:26 G	10900879.47	10900879.56	10900879.70	0.0089	0.0082	
Earth	25133-11-05 07:26 G	10901007.56	10901007.81	10901008.06	0.0089	0.0020	
Moon	25133-11-05 10:19 G	10901007.70	10901007.93	10901008.18	0.0089	0.0025	*
Moon	25134-11-07 17:02 G	10901374.96	10901375.21	10901375.46	0.0089	0.0022	
Earth	25134-11-07 20:24 G	10901375.11	10901375.35	10901375.60	0.0089	0.0027	*
Earth	25135-11-10 09:21 G	10901742.65	10901742.89	10901743.13	0.0089	0.0033	
Moon	25135-11-10 12:43 G	10901742.81	10901743.03	10901743.27	0.0089	0.0038	*
Moon	25136-11-11 18:43 G	10902110.05	10902110.28	10902110.51	0.0089	0.0035	
Earth	25136-11-11 21:50 G	10902110.19	10902110.41	10902110.65	0.0089	0.0040	*
Earth	25137-11-14 10:04 G	10902477.72	10902477.92	10902478.17	0.0089	0.0047	
Moon	25137-11-14 12:43 G	10902477.83	10902478.03	10902478.27	0.0089	0.0051	*
Moon	25138-11-16 21:07 G	10902845.19	10902845.38	10902845.61	0.0089	0.0049	
Earth	25138-11-16 23:02 G	10902845.27	10902845.46	10902845.69	0.0089	0.0053	*
Earth	25139-11-19 11:45 G	10903212.80	10903212.99	10903213.19	0.0089	0.0059	
Moon	25139-11-19 11:45 G	10903212.82	10903212.99	10903213.20	0.0089	0.0063	*
Earth	25140-11-20 23:45 G	10903580.34	10903580.49	10903580.70	0.0089	0.0066	
Moon	25140-11-21 00:43 G	10903580.37	10903580.53	10903580.73	0.0089	0.0062	*
Moon	25141-11-23 10:48 G	10903947.83	10903947.95	10903948.11	0.0089	0.0075	
Earth	25141-11-23 12:14 G	10903947.89	10903948.01	10903948.20	0.0089	0.0072	*
Earth	25142-11-26 00:43 G	10904315.43	10904315.53	10904315.69	0.0089	0.0078	
Moon	25142-11-26 04:04 G	10904315.54	10904315.67	10904315.83	0.0089	0.0073	*
Moon	25143-11-28 10:04 G	10904682.89	10904682.92	10904683.00	0.0089	0.0087	
Earth	25143-11-28 13:55 G	10904682.99	10904683.08	10904683.18	0.0089	0.0083	*
Earth	25144-11-30 01:55 G	10905050.57	10905050.58	10905050.62	0.0089	0.0089	
Moon	25144-11-30 05:31 G	10905050.67	10905050.73	10905050.83	0.0089	0.0085	
Venus	25161-05-13 19:40 G	10911059.20	10911059.32	10911059.47	0.0089	0.0070	
Venus	25161-12-25 08:24 G	10911284.69	10911284.85	10911285.05	0.0089	0.0051	
Venus	25162-08-07 21:21 G	10911510.20	10911510.39	10911510.61	0.0089	0.0032	
Venus	25163-03-21 10:33 G	10911735.72	10911735.94	10911736.16	0.0089	0.0012	

Venus	25163-11-01 23:31 G	10911961.26	10911961.48	10911961.70	0.0089	0.0007
Venus	25164-06-14 12:14 G	10912186.81	10912187.01	10912187.23	0.0089	0.0027
Venus	25165-01-26 00:57 G	10912412.37	10912412.54	10912412.74	0.0089	0.0046
Venus	25165-09-08 13:55 G	10912637.94	10912638.08	10912638.24	0.0089	0.0065
Venus	25166-04-22 02:52 G	10912863.56	10912863.62	10912863.69	0.0089	0.0084
Mercury	25172-12-29 16:33 G	10915307.18	10915307.19	10915307.21	0.0088	0.0088
Mercury	25173-03-27 18:14 G	10915395.21	10915395.26	10915395.32	0.0088	0.0080
Mercury	25173-06-23 19:40 G	10915483.26	10915483.32	10915483.41	0.0088	0.0074
Mercury	25173-09-19 21:21 G	10915571.31	10915571.39	10915571.49	0.0088	0.0066
Mercury	25173-12-16 23:02 G	10915659.36	10915659.46	10915659.57	0.0088	0.0059
Mercury	25174-03-15 00:43 G	10915747.42	10915747.53	10915747.65	0.0088	0.0052
Mercury	25174-06-11 02:24 G	10915835.48	10915835.60	10915835.73	0.0088	0.0044
Mercury	25174-09-07 04:04 G	10915923.54	10915923.67	10915923.80	0.0088	0.0037
Mercury	25174-12-04 05:45 G	10916011.61	10916011.74	10916011.88	0.0088	0.0030
Mercury	25175-03-02 07:26 G	10916099.67	10916099.81	10916099.95	0.0088	0.0023
Mercury	25175-05-29 09:07 G	10916187.74	10916187.88	10916188.02	0.0088	0.0015
Mercury	25175-08-25 10:48 G	10916275.81	10916275.95	10916276.10	0.0088	0.0008
Mercury	25175-11-21 12:28 G	10916363.88	10916364.02	10916364.17	0.0088	0.0001
Mercury	25176-02-17 14:09 G	10916451.95	10916452.09	10916452.24	0.0088	0.0007
Mercury	25176-05-15 15:50 G	10916540.02	10916540.16	10916540.30	0.0088	0.0014
Mercury	25176-08-11 17:31 G	10916628.09	10916628.23	10916628.37	0.0088	0.0022
Mercury	25176-11-07 19:12 G	10916716.16	10916716.30	10916716.44	0.0088	0.0029
Mercury	25177-02-03 20:52 G	10916804.24	10916804.37	10916804.51	0.0088	0.0036
Mercury	25177-05-02 22:19 G	10916892.32	10916892.43	10916892.57	0.0088	0.0045
Mercury	25177-07-30 00:14 G	10916980.40	10916980.51	10916980.64	0.0088	0.0051
Mercury	25177-10-26 01:55 G	10917068.48	10917068.58	10917068.70	0.0088	0.0059
Mercury	25178-01-22 03:36 G	10917156.57	10917156.65	10917156.76	0.0088	0.0067
Mercury	25178-04-20 05:16 G	10917244.66	10917244.72	10917244.81	0.0088	0.0074
Mercury	25178-07-17 07:12 G	10917332.75	10917332.80	10917332.86	0.0088	0.0081
Jupiter	25196-11-19 18:28 G	10924032.93	10924033.27	10924033.71	0.0088	0.0064

Earth	25199-03-30 02:24 G	10924893.58	10924893.60	10924893.68	0.0088	0.0086
Moon	25199-03-30 06:28 G	10924893.73	10924893.77	10924893.83	0.0088	0.0086
Moon	25200-03-31 10:33 G	10925260.87	10925260.94	10925261.06	0.0088	0.0081
Earth	25200-03-31 13:26 G	10925260.96	10925261.06	10925261.16	0.0088	0.0080 *
Earth	25201-04-02 23:02 G	10925628.36	10925628.46	10925628.62	0.0088	0.0075
Moon	25201-04-03 01:26 G	10925628.43	10925628.56	10925628.70	0.0088	0.0075 *
Moon	25202-04-05 08:52 G	10925995.74	10925995.87	10925996.04	0.0088	0.0069
Earth	25202-04-05 09:36 G	10925995.76	10925995.90	10925996.07	0.0088	0.0069 *
Moon	25203-04-07 18:28 G	10926363.11	10926363.27	10926363.48	0.0088	0.0063
Earth	25203-04-07 19:55 G	10926363.16	10926363.33	10926363.52	0.0088	0.0063 *
Earth	25204-04-09 06:14 G	10926730.57	10926730.76	10926730.96	0.0088	0.0057
Moon	25204-04-09 07:40 G	10926730.65	10926730.82	10926731.03	0.0088	0.0057 *
Moon	25205-04-11 12:57 G	10927097.86	10927098.04	10927098.28	0.0088	0.0052
Earth	25205-04-11 16:33 G	10927097.99	10927098.19	10927098.40	0.0088	0.0051 *
Earth	25206-04-14 02:38 G	10927465.40	10927465.61	10927465.84	0.0088	0.0045
Moon	25206-04-14 06:14 G	10927465.55	10927465.76	10927465.99	0.0088	0.0045 *
Moon	25207-04-16 09:21 G	10927832.68	10927832.89	10927833.13	0.0088	0.0040
Earth	25207-04-16 12:57 G	10927832.82	10927833.04	10927833.28	0.0088	0.0039 *
Earth	25208-04-17 23:02 G	10928200.24	10928200.46	10928200.72	0.0088	0.0033
Moon	25208-04-18 02:38 G	10928200.38	10928200.61	10928200.87	0.0088	0.0032 *
Moon	25209-04-20 07:40 G	10928567.59	10928567.82	10928568.07	0.0088	0.0027
Earth	25209-04-20 10:04 G	10928567.67	10928567.92	10928568.16	0.0088	0.0026 *
Earth	25210-04-22 20:09 G	10928935.10	10928935.34	10928935.60	0.0088	0.0020
Moon	25210-04-22 21:36 G	10928935.15	10928935.40	10928935.67	0.0088	0.0019 *
Moon	25211-04-25 06:28 G	10929302.53	10929302.77	10929303.02	0.0088	0.0015
Earth	25211-04-25 06:43 G	10929302.53	10929302.78	10929303.04	0.0088	0.0014 *
Moon	25212-04-26 15:36 G	10929669.89	10929670.15	10929670.42	0.0088	0.0007
Earth	25212-04-26 17:16 G	10929669.96	10929670.22	10929670.48	0.0088	0.0007 *
Earth	25213-04-29 03:36 G	10930037.39	10930037.65	10930037.91	0.0088	0.0001
Moon	25213-04-29 05:45 G	10930037.49	10930037.74	10930037.99	0.0088	0.0002 *

Mars	25213-06-01 22:04 G	10930071.09	10930071.42	10930071.78	0.0088	0.0016
Moon	25214-05-01 10:33 G	10930404.69	10930404.94	10930405.21	0.0088	0.0007
Earth	25214-05-01 13:55 G	10930404.83	10930405.08	10930405.34	0.0088	0.0006 *
Mars	25215-04-29 10:33 G	10930767.73	10930767.94	10930768.20	0.0088	0.0065
Earth	25215-05-04 00:14 G	10930772.26	10930772.51	10930772.77	0.0088	0.0012
Moon	25215-05-04 03:50 G	10930772.41	10930772.66	10930772.91	0.0088	0.0011 *
Moon	25216-05-05 07:12 G	10931139.56	10931139.80	10931140.06	0.0088	0.0020
Earth	25216-05-05 10:48 G	10931139.70	10931139.95	10931140.20	0.0088	0.0018 *
Earth	25217-05-07 20:52 G	10931507.14	10931507.37	10931507.63	0.0088	0.0025
Moon	25217-05-08 00:14 G	10931507.27	10931507.51	10931507.77	0.0088	0.0023 *
Moon	25218-05-10 05:45 G	10931874.51	10931874.74	10931874.98	0.0088	0.0032
Earth	25218-05-10 07:26 G	10931874.58	10931874.81	10931875.06	0.0088	0.0031 *
Earth	25219-05-12 18:00 G	10932242.03	10932242.25	10932242.49	0.0088	0.0037
Moon	25219-05-12 18:57 G	10932242.06	10932242.29	10932242.55	0.0088	0.0036 *
Earth	25220-05-14 04:19 G	10932609.48	10932609.68	10932609.93	0.0088	0.0044
Moon	25220-05-14 05:02 G	10932609.50	10932609.71	10932609.93	0.0088	0.0045 *
Moon	25221-05-16 13:12 G	10932976.85	10932977.05	10932977.29	0.0088	0.0049
Earth	25221-05-16 15:07 G	10932976.94	10932977.13	10932977.36	0.0088	0.0050 *
Earth	25222-05-19 01:40 G	10933344.40	10933344.57	10933344.79	0.0088	0.0056
Moon	25222-05-19 04:04 G	10933344.50	10933344.67	10933344.88	0.0088	0.0058 *
Moon	25223-05-21 09:21 G	10933711.71	10933711.89	10933712.09	0.0088	0.0060
Earth	25223-05-21 12:43 G	10933711.86	10933712.03	10933712.23	0.0088	0.0062 *
Earth	25224-05-22 23:31 G	10934079.33	10934079.48	10934079.66	0.0088	0.0068
Moon	25224-05-23 03:21 G	10934079.49	10934079.64	10934079.80	0.0088	0.0069 *
Moon	25225-05-25 06:43 G	10934446.67	10934446.78	10934446.96	0.0088	0.0072
Earth	25225-05-25 10:19 G	10934446.82	10934446.93	10934447.09	0.0088	0.0074 *
Earth	25226-05-27 20:52 G	10934814.29	10934814.37	10934814.50	0.0088	0.0080
Moon	25226-05-27 23:45 G	10934814.43	10934814.49	10934814.62	0.0088	0.0083 *
Moon	25227-05-30 06:28 G	10935181.72	10935181.77	10935181.86	0.0088	0.0084
Earth	25227-05-30 08:09 G	10935181.80	10935181.84	10935181.91	0.0088	0.0086 *

Venus	25244-09-22 04:04 G	10941506.55	10941506.67	10941506.82	0.0089	0.0070
Venus	25245-05-05 17:16 G	10941732.06	10941732.22	10941732.42	0.0089	0.0051
Venus	25245-12-17 06:43 G	10941957.57	10941957.78	10941957.99	0.0089	0.0031
Venus	25246-07-30 19:40 G	10942183.11	10942183.32	10942183.54	0.0089	0.0012
Venus	25247-03-13 08:52 G	10942408.65	10942408.87	10942409.09	0.0089	0.0008
Venus	25247-10-24 22:04 G	10942634.21	10942634.42	10942634.63	0.0089	0.0027
Venus	25248-06-06 10:48 G	10942859.78	10942859.95	10942860.15	0.0089	0.0047
Venus	25249-01-18 00:00 G	10943085.37	10943085.50	10943085.66	0.0089	0.0066
Venus	25249-08-31 12:43 G	10943311.00	10943311.03	10943311.11	0.0089	0.0086
Mercury	25256-12-16 08:52 G	10945974.82	10945974.87	10945974.92	0.0089	0.0084
Mercury	25257-03-14 11:31 G	10946062.90	10946062.98	10946063.08	0.0089	0.0075
Mercury	25257-06-10 14:09 G	10946150.99	10946151.09	10946151.22	0.0089	0.0066
Mercury	25257-09-06 17:02 G	10946239.09	10946239.21	10946239.36	0.0089	0.0057
Mercury	25257-12-03 20:09 G	10946327.19	10946327.34	10946327.49	0.0089	0.0048
Mercury	25258-03-01 22:48 G	10946415.30	10946415.45	10946415.61	0.0089	0.0038
Mercury	25258-05-29 01:40 G	10946503.41	10946503.57	10946503.73	0.0089	0.0029
Mercury	25258-08-25 04:19 G	10946591.52	10946591.68	10946591.85	0.0089	0.0020
Mercury	25258-11-21 07:12 G	10946679.63	10946679.80	10946679.97	0.0089	0.0011
Mercury	25259-02-17 09:50 G	10946767.74	10946767.91	10946768.09	0.0089	0.0003
Mercury	25259-05-16 12:43 G	10946855.86	10946856.03	10946856.20	0.0089	0.0007
Mercury	25259-08-12 15:21 G	10946943.97	10946944.14	10946944.31	0.0089	0.0016
Mercury	25259-11-08 18:00 G	10947032.09	10947032.25	10947032.42	0.0089	0.0025
Mercury	25260-02-04 20:38 G	10947120.21	10947120.36	10947120.52	0.0089	0.0034
Mercury	25260-05-02 23:16 G	10947208.33	10947208.47	10947208.63	0.0089	0.0043
Mercury	25260-07-30 02:09 G	10947296.45	10947296.59	10947296.73	0.0089	0.0052
Mercury	25260-10-26 04:33 G	10947384.57	10947384.69	10947384.82	0.0089	0.0061
Mercury	25261-01-22 07:12 G	10947472.70	10947472.80	10947472.91	0.0089	0.0069
Mercury	25261-04-20 09:36 G	10947560.84	10947560.90	10947561.00	0.0089	0.0079
Mercury	25261-07-17 12:43 G	10947648.99	10947649.03	10947649.06	0.0089	0.0087
Moon	25281-09-28 18:28 G	10955027.21	10955027.27	10955027.35	0.0090	0.0086



Earth	25281-09-28 20:52 G	10955027.35	10955027.37	10955027.41	0.0090	0.0089	*
Earth	25282-10-01 09:50 G	10955394.83	10955394.91	10955395.02	0.0090	0.0083	
Moon	25282-10-01 11:31 G	10955394.93	10955394.98	10955395.07	0.0090	0.0086	*
Moon	25283-10-03 22:48 G	10955762.33	10955762.45	10955762.62	0.0090	0.0074	
Earth	25283-10-03 22:48 G	10955762.34	10955762.45	10955762.60	0.0090	0.0077	*
Moon	25284-10-05 11:31 G	10956129.83	10956129.98	10956130.14	0.0090	0.0073	
Earth	25284-10-05 11:45 G	10956129.86	10956129.99	10956130.18	0.0090	0.0071	*
Earth	25285-10-08 01:26 G	10956497.39	10956497.56	10956497.75	0.0090	0.0064	
Moon	25285-10-08 02:52 G	10956497.46	10956497.62	10956497.83	0.0090	0.0062	*
Moon	25286-10-10 11:31 G	10956864.80	10956864.98	10956865.18	0.0090	0.0061	
Earth	25286-10-10 14:24 G	10956864.92	10956865.10	10956865.32	0.0090	0.0058	*
Earth	25287-10-13 03:50 G	10957232.46	10957232.66	10957232.88	0.0090	0.0051	
Moon	25287-10-13 06:57 G	10957232.59	10957232.79	10957233.02	0.0090	0.0049	*
Moon	25288-10-14 13:12 G	10957599.84	10957600.05	10957600.28	0.0090	0.0047	
Earth	25288-10-14 16:33 G	10957599.99	10957600.19	10957600.44	0.0090	0.0045	*
Earth	25289-10-17 06:00 G	10957967.52	10957967.75	10957967.99	0.0090	0.0038	
Moon	25289-10-17 09:21 G	10957967.65	10957967.89	10957968.14	0.0090	0.0035	*
Moon	25290-10-19 16:19 G	10958334.96	10958335.18	10958335.43	0.0090	0.0033	
Earth	25290-10-19 19:12 G	10958335.07	10958335.30	10958335.55	0.0090	0.0031	*
Earth	25291-10-22 08:09 G	10958702.59	10958702.84	10958703.09	0.0090	0.0024	
Moon	25291-10-22 09:50 G	10958702.67	10958702.91	10958703.18	0.0090	0.0023	*
Moon	25292-10-23 20:38 G	10959070.13	10959070.36	10959070.62	0.0090	0.0020	
Earth	25292-10-23 20:52 G	10959070.13	10959070.37	10959070.64	0.0090	0.0018	*
Mars	25293-04-27 15:36 G	10959256.06	10959256.15	10959256.31	0.0090	0.0081	
Moon	25293-10-26 09:36 G	10959437.64	10959437.90	10959438.17	0.0090	0.0009	
Earth	25293-10-26 10:04 G	10959437.67	10959437.92	10959438.18	0.0090	0.0010	*
Earth	25294-10-28 23:02 G	10959805.20	10959805.46	10959805.72	0.0090	0.0003	
Moon	25294-10-29 00:43 G	10959805.28	10959805.53	10959805.78	0.0090	0.0005	*
Mars	25295-03-22 03:36 G	10959949.37	10959949.65	10959949.94	0.0090	0.0012	
Moon	25295-10-31 09:07 G	10960172.62	10960172.88	10960173.14	0.0090	0.0006	

Earth	25295-10-31 12:00 G	10960172.75	10960173.00	10960173.26	0.0090	0.0004	*
Earth	25296-11-02 00:43 G	10960540.28	10960540.53	10960540.79	0.0089	0.0011	
Moon	25296-11-02 03:50 G	10960540.41	10960540.66	10960540.92	0.0089	0.0010	*
Mars	25297-02-12 14:09 G	10960642.87	10960643.09	10960643.31	0.0089	0.0056	
Moon	25297-11-04 10:04 G	10960907.67	10960907.92	10960908.18	0.0089	0.0019	
Earth	25297-11-04 13:40 G	10960907.83	10960908.07	10960908.34	0.0089	0.0018	*
Earth	25298-11-07 02:38 G	10961275.37	10961275.61	10961275.87	0.0089	0.0025	
Moon	25298-11-07 06:00 G	10961275.51	10961275.75	10961276.02	0.0089	0.0023	*
Moon	25299-11-09 12:28 G	10961642.80	10961643.02	10961643.28	0.0089	0.0032	
Earth	25299-11-09 15:21 G	10961642.92	10961643.14	10961643.40	0.0089	0.0032	*
Earth	25300-11-12 04:33 G	10962010.47	10962010.69	10962010.93	0.0089	0.0038	
Moon	25300-11-12 06:43 G	10962010.55	10962010.78	10962011.03	0.0089	0.0038	*
Moon	25301-11-14 16:33 G	10962378.00	10962378.19	10962378.43	0.0089	0.0046	
Earth	25301-11-14 17:16 G	10962378.01	10962378.22	10962378.46	0.0089	0.0045	*
Moon	25302-11-17 05:45 G	10962745.55	10962745.74	10962745.98	0.0089	0.0052	
Earth	25302-11-17 05:45 G	10962745.56	10962745.74	10962745.98	0.0089	0.0052	*
Earth	25303-11-19 18:43 G	10963113.10	10963113.28	10963113.49	0.0089	0.0058	
Moon	25303-11-19 20:24 G	10963113.17	10963113.35	10963113.55	0.0089	0.0058	*
Moon	25304-11-21 04:19 G	10963480.52	10963480.68	10963480.89	0.0089	0.0064	
Earth	25304-11-21 06:57 G	10963480.64	10963480.79	10963481.00	0.0089	0.0065	*
Earth	25305-11-23 19:55 G	10963848.18	10963848.33	10963848.50	0.0089	0.0071	
Moon	25305-11-23 23:02 G	10963848.31	10963848.46	10963848.62	0.0089	0.0070	*
Moon	25306-11-26 04:19 G	10964215.58	10964215.68	10964215.84	0.0089	0.0078	
Earth	25306-11-26 08:38 G	10964215.74	10964215.86	10964216.00	0.0089	0.0077	*
Earth	25307-11-28 21:07 G	10964583.29	10964583.38	10964583.47	0.0089	0.0083	
Moon	25307-11-29 00:00 G	10964583.42	10964583.50	10964583.62	0.0089	0.0083	*
Earth	25308-11-30 09:36 G	10964950.88	10964950.90	10964950.93	0.0089	0.0089	
Venus	25325-08-16 05:31 G	10971053.64	10971053.73	10971053.84	0.0089	0.0078	
Venus	25326-03-29 18:28 G	10971279.11	10971279.27	10971279.44	0.0089	0.0059	
Venus	25326-11-10 07:26 G	10971504.63	10971504.81	10971505.02	0.0089	0.0040	

Venus	25327-06-23 20:24 G	10971730.15	10971730.35	10971730.57	0.0089	0.0021
Venus	25328-02-04 09:36 G	10971955.68	10971955.90	10971956.12	0.0089	0.0002
Venus	25328-09-16 22:04 G	10972181.22	10972181.42	10972181.65	0.0089	0.0019
Venus	25329-04-30 11:02 G	10972406.77	10972406.96	10972407.17	0.0089	0.0038
Venus	25329-12-11 23:45 G	10972632.34	10972632.49	10972632.68	0.0089	0.0057
Venus	25330-07-25 12:43 G	10972857.93	10972858.03	10972858.16	0.0089	0.0076
Mercury	25337-09-26 15:50 G	10975478.14	10975478.16	10975478.21	0.0088	0.0085
Mercury	25337-12-23 17:45 G	10975566.17	10975566.24	10975566.30	0.0088	0.0078
Mercury	25338-03-21 19:12 G	10975654.22	10975654.30	10975654.39	0.0088	0.0071
Mercury	25338-06-17 20:52 G	10975742.27	10975742.37	10975742.47	0.0088	0.0063
Mercury	25338-09-13 22:19 G	10975830.33	10975830.43	10975830.55	0.0088	0.0057
Mercury	25338-12-11 00:00 G	10975918.39	10975918.50	10975918.63	0.0088	0.0049
Mercury	25339-03-09 01:40 G	10976006.45	10976006.57	10976006.70	0.0088	0.0042
Mercury	25339-06-05 03:21 G	10976094.51	10976094.64	10976094.78	0.0088	0.0035
Mercury	25339-09-01 05:02 G	10976182.58	10976182.71	10976182.85	0.0088	0.0027
Mercury	25339-11-28 06:43 G	10976270.64	10976270.78	10976270.92	0.0088	0.0020
Mercury	25340-02-24 08:24 G	10976358.71	10976358.85	10976359.00	0.0088	0.0013
Mercury	25340-05-22 10:04 G	10976446.78	10976446.92	10976447.07	0.0088	0.0006
Mercury	25340-08-18 11:45 G	10976534.85	10976534.99	10976535.14	0.0088	0.0002
Mercury	25340-11-14 13:26 G	10976622.92	10976623.06	10976623.21	0.0088	0.0010
Mercury	25341-02-10 15:07 G	10976710.99	10976711.13	10976711.28	0.0088	0.0017
Mercury	25341-05-09 16:48 G	10976799.06	10976799.20	10976799.34	0.0088	0.0024
Mercury	25341-08-05 18:28 G	10976887.14	10976887.27	10976887.41	0.0088	0.0032
Mercury	25341-11-01 20:09 G	10976975.21	10976975.34	10976975.48	0.0088	0.0039
Mercury	25342-01-28 22:04 G	10977063.29	10977063.42	10977063.54	0.0088	0.0047
Mercury	25342-04-26 23:31 G	10977151.37	10977151.48	10977151.60	0.0088	0.0054
Mercury	25342-07-24 01:26 G	10977239.46	10977239.56	10977239.66	0.0088	0.0062
Mercury	25342-10-20 02:52 G	10977327.54	10977327.62	10977327.72	0.0088	0.0070
Mercury	25343-01-16 04:33 G	10977415.64	10977415.69	10977415.78	0.0088	0.0077
Mercury	25343-04-14 06:28 G	10977503.74	10977503.77	10977503.82	0.0088	0.0084

Earth	25364-03-31 23:02 G	10985161.41	10985161.46	10985161.54	0.0088	0.0085
Moon	25364-04-01 00:14 G	10985161.41	10985161.51	10985161.62	0.0088	0.0080 *
Earth	25365-04-03 09:21 G	10985528.80	10985528.89	10985529.01	0.0088	0.0079
Moon	25365-04-03 09:07 G	10985528.84	10985528.88	10985528.99	0.0088	0.0084 *
Moon	25366-04-05 18:14 G	10985896.12	10985896.26	10985896.45	0.0088	0.0069
Earth	25366-04-05 19:12 G	10985896.20	10985896.30	10985896.47	0.0088	0.0074 *
Earth	25367-04-08 06:00 G	10986263.59	10986263.75	10986263.92	0.0088	0.0067
Moon	25367-04-08 08:24 G	10986263.73	10986263.85	10986264.01	0.0088	0.0072 *
Moon	25368-04-09 12:57 G	10986630.86	10986631.04	10986631.26	0.0088	0.0057
Earth	25368-04-09 16:33 G	10986631.01	10986631.19	10986631.37	0.0088	0.0061 *
Earth	25369-04-12 02:24 G	10986998.42	10986998.60	10986998.81	0.0088	0.0055
Moon	25369-04-12 06:00 G	10986998.58	10986998.75	10986998.95	0.0088	0.0060 *
Moon	25370-04-14 09:36 G	10987365.68	10987365.90	10987366.12	0.0088	0.0044
Earth	25370-04-14 12:43 G	10987365.83	10987366.03	10987366.26	0.0088	0.0049 *
Earth	25371-04-16 22:48 G	10987733.24	10987733.45	10987733.69	0.0088	0.0043
Moon	25371-04-17 01:40 G	10987733.37	10987733.57	10987733.81	0.0088	0.0047 *
Moon	25372-04-18 07:12 G	10988100.58	10988100.80	10988101.05	0.0088	0.0032
Earth	25372-04-18 09:36 G	10988100.67	10988100.90	10988101.14	0.0088	0.0036 *
Earth	25373-04-20 19:40 G	10988468.09	10988468.32	10988468.57	0.0088	0.0030
Moon	25373-04-20 20:09 G	10988468.10	10988468.34	10988468.59	0.0088	0.0034 *
Earth	25374-04-23 06:00 G	10988835.52	10988835.75	10988836.01	0.0088	0.0024
Moon	25374-04-23 06:28 G	10988835.54	10988835.77	10988836.03	0.0088	0.0020 *
Moon	25375-04-25 15:07 G	10989202.87	10989203.13	10989203.39	0.0088	0.0021
Earth	25375-04-25 16:33 G	10989202.95	10989203.19	10989203.45	0.0088	0.0017 *
Earth	25376-04-27 03:21 G	10989570.38	10989570.64	10989570.89	0.0088	0.0010
Moon	25376-04-27 06:14 G	10989570.51	10989570.76	10989571.01	0.0088	0.0006 *
Mars	25377-01-14 02:52 G	10989832.34	10989832.62	10989832.94	0.0088	0.0044
Moon	25377-04-29 10:33 G	10989937.68	10989937.94	10989938.20	0.0088	0.0008
Earth	25377-04-29 13:55 G	10989937.82	10989938.08	10989938.34	0.0088	0.0004 *
Earth	25378-05-02 00:14 G	10990305.25	10990305.51	10990305.77	0.0088	0.0003

Moon	25378-05-02 03:50 G	10990305.41	10990305.66	10990305.92	0.0088	0.0008	*
Mars	25378-12-11 16:33 G	10990528.90	10990529.19	10990529.53	0.0088	0.0037	
Moon	25379-05-04 07:40 G	10990672.57	10990672.82	10990673.07	0.0088	0.0005	
Earth	25379-05-04 10:48 G	10990672.70	10990672.95	10990673.21	0.0088	0.0010	*
Earth	25380-05-05 21:07 G	10991040.13	10991040.38	10991040.64	0.0088	0.0016	
Moon	25380-05-06 00:00 G	10991040.24	10991040.50	10991040.75	0.0088	0.0020	*
Moon	25381-05-08 05:31 G	10991407.50	10991407.73	10991407.99	0.0088	0.0019	
Earth	25381-05-08 07:26 G	10991407.57	10991407.81	10991408.07	0.0088	0.0023	*
Moon	25382-05-10 17:45 G	10991775.01	10991775.24	10991775.51	0.0088	0.0034	
Earth	25382-05-10 18:14 G	10991775.02	10991775.26	10991775.50	0.0088	0.0029	*
Earth	25383-05-13 04:19 G	10992142.46	10992142.68	10992142.93	0.0088	0.0036	
Moon	25383-05-13 05:16 G	10992142.50	10992142.72	10992142.97	0.0088	0.0032	*
Moon	25384-05-14 12:57 G	10992509.83	10992510.04	10992510.28	0.0088	0.0047	
Earth	25384-05-14 15:07 G	10992509.91	10992510.13	10992510.36	0.0088	0.0042	*
Earth	25385-05-17 01:26 G	10992877.37	10992877.56	10992877.79	0.0088	0.0049	
Moon	25385-05-17 04:48 G	10992877.49	10992877.70	10992877.93	0.0088	0.0044	*
Moon	25386-05-19 09:07 G	10993244.69	10993244.88	10993245.07	0.0088	0.0059	
Earth	25386-05-19 12:14 G	10993244.82	10993245.01	10993245.22	0.0088	0.0055	*
Earth	25387-05-21 23:16 G	10993612.29	10993612.47	10993612.65	0.0088	0.0061	
Moon	25387-05-22 02:38 G	10993612.43	10993612.61	10993612.82	0.0088	0.0057	*
Moon	25388-05-23 06:57 G	10993979.66	10993979.79	10993979.94	0.0088	0.0072	
Earth	25388-05-23 09:36 G	10993979.76	10993979.90	10993980.09	0.0088	0.0068	*
Earth	25389-05-25 20:24 G	10994347.23	10994347.35	10994347.51	0.0088	0.0074	
Moon	25389-05-25 22:48 G	10994347.31	10994347.45	10994347.63	0.0088	0.0070	*
Moon	25390-05-28 06:00 G	10994714.70	10994714.75	10994714.84	0.0088	0.0084	
Earth	25390-05-28 07:12 G	10994714.72	10994714.80	10994714.94	0.0088	0.0080	*
Moon	25391-05-30 18:00 G	10995082.17	10995082.25	10995082.37	0.0088	0.0081	
Earth	25391-05-30 18:00 G	10995082.23	10995082.25	10995082.34	0.0088	0.0086	*
Venus	25408-12-26 14:38 G	11001501.03	11001501.11	11001501.24	0.0089	0.0078	
Venus	25409-08-09 04:04 G	11001726.51	11001726.67	11001726.84	0.0089	0.0058	

Venus	25410-03-22 17:02 G	11001952.02	11001952.21	11001952.42	0.0089	0.0039
Venus	25410-11-03 06:14 G	11002177.55	11002177.76	11002177.98	0.0089	0.0019
Venus	25411-06-16 19:26 G	11002403.09	11002403.31	11002403.53	0.0089	0.0000
Venus	25412-01-28 08:24 G	11002628.64	11002628.85	11002629.07	0.0089	0.0020
Venus	25412-09-09 21:21 G	11002854.20	11002854.39	11002854.60	0.0089	0.0039
Venus	25413-04-23 10:48 G	11003079.79	11003079.95	11003080.12	0.0089	0.0058
Venus	25413-12-04 23:31 G	11003305.39	11003305.48	11003305.60	0.0089	0.0078
Mercury	25421-09-14 07:40 G	11006145.76	11006145.82	11006145.90	0.0089	0.0080
Mercury	25421-12-11 10:33 G	11006233.84	11006233.94	11006234.05	0.0089	0.0071
Mercury	25422-03-09 13:12 G	11006321.94	11006322.05	11006322.19	0.0089	0.0062
Mercury	25422-06-05 16:04 G	11006410.04	11006410.17	11006410.32	0.0089	0.0053
Mercury	25422-09-01 19:12 G	11006498.15	11006498.30	11006498.45	0.0089	0.0043
Mercury	25422-11-28 21:50 G	11006586.25	11006586.41	11006586.58	0.0089	0.0034
Mercury	25423-02-25 00:43 G	11006674.36	11006674.53	11006674.70	0.0089	0.0025
Mercury	25423-05-24 03:21 G	11006762.48	11006762.64	11006762.82	0.0089	0.0016
Mercury	25423-08-20 06:14 G	11006850.59	11006850.76	11006850.93	0.0089	0.0007
Mercury	25423-11-16 08:52 G	11006938.70	11006938.87	11006939.05	0.0089	0.0003
Mercury	25424-02-12 11:45 G	11007026.82	11007026.99	11007027.16	0.0089	0.0011
Mercury	25424-05-10 14:24 G	11007114.94	11007115.10	11007115.27	0.0089	0.0020
Mercury	25424-08-06 17:02 G	11007203.05	11007203.21	11007203.38	0.0089	0.0029
Mercury	25424-11-02 19:40 G	11007291.17	11007291.32	11007291.48	0.0089	0.0038
Mercury	25425-01-29 22:19 G	11007379.29	11007379.43	11007379.58	0.0089	0.0047
Mercury	25425-04-28 00:43 G	11007467.42	11007467.53	11007467.68	0.0089	0.0057
Mercury	25425-07-25 03:50 G	11007555.54	11007555.66	11007555.78	0.0089	0.0065
Mercury	25425-10-21 06:14 G	11007643.68	11007643.76	11007643.87	0.0089	0.0074
Mercury	25426-01-17 08:52 G	11007731.82	11007731.87	11007731.94	0.0089	0.0082
Moon	25446-10-02 17:45 G	11015295.19	11015295.24	11015295.33	0.0090	0.0086
Earth	25446-10-02 17:45 G	11015295.20	11015295.24	11015295.30	0.0090	0.0088 *
Moon	25447-10-05 04:33 G	11015662.62	11015662.69	11015662.80	0.0090	0.0084
Earth	25447-10-05 06:28 G	11015662.69	11015662.77	11015662.90	0.0090	0.0082 *

Earth	25448-10-06 19:26 G	11016030.20	11016030.31	11016030.47	0.0090	0.0076
Moon	25448-10-06 22:33 G	11016030.30	11016030.44	11016030.59	0.0090	0.0073 *
Moon	25449-10-09 05:31 G	11016397.60	11016397.73	11016397.91	0.0090	0.0072
Earth	25449-10-09 08:52 G	11016397.72	11016397.87	11016398.05	0.0090	0.0069 *
Earth	25450-10-11 22:19 G	11016765.25	11016765.43	11016765.62	0.0090	0.0062
Moon	25450-10-12 02:09 G	11016765.40	11016765.59	11016765.78	0.0090	0.0059 *
Moon	25451-10-14 07:40 G	11017132.65	11017132.82	11017133.04	0.0090	0.0059
Earth	25451-10-14 11:02 G	11017132.78	11017132.96	11017133.19	0.0090	0.0056 *
Earth	25452-10-16 00:28 G	11017500.32	11017500.52	11017500.75	0.0090	0.0049
Moon	25452-10-16 03:36 G	11017500.44	11017500.65	11017500.90	0.0090	0.0045 *
Moon	25453-10-18 12:00 G	11017867.79	11017868.00	11017868.23	0.0090	0.0045
Earth	25453-10-18 13:40 G	11017867.86	11017868.07	11017868.32	0.0090	0.0042 *
Earth	25454-10-21 02:52 G	11018235.40	11018235.62	11018235.87	0.0090	0.0035
Moon	25454-10-21 03:50 G	11018235.43	11018235.66	11018235.93	0.0090	0.0032 *
Moon	25455-10-23 15:50 G	11018602.94	11018603.16	11018603.41	0.0090	0.0032
Earth	25455-10-23 16:04 G	11018602.94	11018603.17	11018603.43	0.0090	0.0028 *
Moon	25456-10-25 03:36 G	11018970.39	11018970.65	11018970.91	0.0090	0.0017
Earth	25456-10-25 05:02 G	11018970.47	11018970.71	11018970.97	0.0090	0.0021 *
Earth	25457-10-27 18:14 G	11019338.01	11019338.26	11019338.52	0.0090	0.0013
Moon	25457-10-27 20:38 G	11019338.11	11019338.36	11019338.60	0.0090	0.0017 *
Moon	25458-10-30 04:04 G	11019705.41	11019705.67	11019705.94	0.0090	0.0003
Earth	25458-10-30 07:12 G	11019705.55	11019705.80	11019706.06	0.0090	0.0007 *
Mars	25458-11-06 18:28 G	11019713.03	11019713.27	11019713.55	0.0090	0.0037
Earth	25459-11-01 19:55 G	11020073.07	11020073.33	11020073.59	0.0090	0.0001
Moon	25459-11-01 23:31 G	11020073.23	11020073.48	11020073.74	0.0090	0.0004 *
Mars	25460-09-30 06:43 G	11020406.53	11020406.78	11020407.06	0.0090	0.0032
Moon	25460-11-03 05:16 G	11020440.48	11020440.72	11020440.99	0.0090	0.0013
Earth	25460-11-03 08:52 G	11020440.62	11020440.87	11020441.13	0.0090	0.0008 *
Earth	25461-11-05 21:36 G	11020808.16	11020808.40	11020808.66	0.0089	0.0015
Moon	25461-11-06 01:12 G	11020808.29	11020808.55	11020808.81	0.0089	0.0011 *

Moon	25462-11-08 08:24 G	11021175.62	11021175.85	11021176.10	0.0089	0.0026
Earth	25462-11-08 10:19 G	11021175.70	11021175.93	11021176.20	0.0089	0.0023 *
Earth	25463-11-10 23:16 G	11021543.24	11021543.47	11021543.73	0.0089	0.0029
Moon	25463-11-11 00:43 G	11021543.29	11021543.53	11021543.80	0.0089	0.0025 *
Moon	25464-11-12 12:00 G	11021910.78	11021911.00	11021911.23	0.0089	0.0041
Earth	25464-11-12 12:00 G	11021910.79	11021911.00	11021911.26	0.0089	0.0037 *
Moon	25465-11-15 00:00 G	11022278.26	11022278.50	11022278.74	0.0089	0.0039
Earth	25465-11-15 00:57 G	11022278.34	11022278.54	11022278.79	0.0089	0.0044 *
Earth	25466-11-17 14:09 G	11022645.88	11022646.09	11022646.31	0.0089	0.0050
Moon	25466-11-17 15:50 G	11022645.98	11022646.16	11022646.38	0.0089	0.0054 *
Moon	25467-11-20 00:00 G	11023013.29	11023013.50	11023013.71	0.0089	0.0052
Earth	25467-11-20 02:52 G	11023013.43	11023013.62	11023013.82	0.0089	0.0057 *
Earth	25468-11-21 15:07 G	11023380.97	11023381.13	11023381.33	0.0089	0.0064
Moon	25468-11-21 18:28 G	11023381.14	11023381.27	11023381.47	0.0089	0.0069 *
Moon	25469-11-24 00:28 G	11023748.37	11023748.52	11023748.71	0.0089	0.0066
Earth	25469-11-24 03:50 G	11023748.53	11023748.66	11023748.84	0.0089	0.0070 *
Earth	25470-11-26 16:19 G	11024116.07	11024116.18	11024116.33	0.0089	0.0076
Moon	25470-11-26 19:40 G	11024116.24	11024116.32	11024116.45	0.0089	0.0081 *
Moon	25471-11-29 02:24 G	11024483.51	11024483.60	11024483.75	0.0089	0.0079
Earth	25471-11-29 05:02 G	11024483.63	11024483.71	11024483.82	0.0089	0.0083 *
Earth	25472-11-30 17:45 G	11024851.22	11024851.24	11024851.26	0.0089	0.0089
Venus	25489-11-18 15:50 G	11031048.13	11031048.16	11031048.23	0.0089	0.0086
Venus	25490-07-02 04:48 G	11031273.57	11031273.70	11031273.86	0.0089	0.0067
Venus	25491-02-12 17:45 G	11031499.07	11031499.24	11031499.44	0.0089	0.0048
Venus	25491-09-26 07:12 G	11031724.59	11031724.80	11031725.01	0.0089	0.0028
Venus	25492-05-08 20:09 G	11031950.12	11031950.34	11031950.56	0.0089	0.0009
Venus	25492-12-20 08:52 G	11032175.66	11032175.87	11032176.10	0.0089	0.0011
Venus	25493-08-02 21:50 G	11032401.21	11032401.41	11032401.62	0.0089	0.0030
Venus	25494-03-16 10:33 G	11032626.77	11032626.94	11032627.13	0.0089	0.0049
Venus	25494-10-27 23:45 G	11032852.35	11032852.49	11032852.63	0.0089	0.0068



Venus	25495-06-10 12:28 G	11033077.99	11033078.02	11033078.07	0.0089	0.0087
Mercury	25502-06-25 15:21 G	11035649.10	11035649.14	11035649.20	0.0088	0.0082
Mercury	25502-09-21 17:16 G	11035737.14	11035737.22	11035737.29	0.0088	0.0075
Mercury	25502-12-18 18:43 G	11035825.19	11035825.28	11035825.37	0.0088	0.0068
Mercury	25503-03-16 20:24 G	11035913.25	11035913.35	11035913.46	0.0088	0.0060
Mercury	25503-06-12 21:50 G	11036001.31	11036001.41	11036001.53	0.0088	0.0054
Mercury	25503-09-08 23:31 G	11036089.37	11036089.48	11036089.61	0.0088	0.0046
Mercury	25503-12-06 01:12 G	11036177.43	11036177.55	11036177.68	0.0088	0.0039
Mercury	25504-03-03 02:52 G	11036265.49	11036265.62	11036265.76	0.0088	0.0032
Mercury	25504-05-30 04:33 G	11036353.55	11036353.69	11036353.83	0.0088	0.0024
Mercury	25504-08-26 06:14 G	11036441.62	11036441.76	11036441.90	0.0088	0.0017
Mercury	25504-11-22 07:55 G	11036529.69	11036529.83	11036529.97	0.0088	0.0010
Mercury	25505-02-18 09:36 G	11036617.76	11036617.90	11036618.05	0.0088	0.0002
Mercury	25505-05-17 11:16 G	11036705.83	11036705.97	11036706.12	0.0088	0.0005
Mercury	25505-08-13 12:57 G	11036793.90	11036794.04	11036794.18	0.0088	0.0013
Mercury	25505-11-09 14:38 G	11036881.97	11036882.11	11036882.25	0.0088	0.0020
Mercury	25506-02-05 16:19 G	11036970.04	11036970.18	11036970.32	0.0088	0.0027
Mercury	25506-05-04 17:45 G	11037058.12	11037058.24	11037058.39	0.0088	0.0035
Mercury	25506-07-31 19:40 G	11037146.19	11037146.32	11037146.45	0.0088	0.0042
Mercury	25506-10-27 21:07 G	11037234.27	11037234.38	11037234.51	0.0088	0.0050
Mercury	25507-01-23 23:02 G	11037322.35	11037322.46	11037322.58	0.0088	0.0057
Mercury	25507-04-22 00:28 G	11037410.44	11037410.52	11037410.64	0.0088	0.0066
Mercury	25507-07-19 02:24 G	11037498.53	11037498.60	11037498.69	0.0088	0.0073
Mercury	25507-10-15 04:04 G	11037586.62	11037586.67	11037586.74	0.0088	0.0080
Mercury	25508-01-11 06:00 G	11037674.74	11037674.75	11037674.77	0.0088	0.0087
Moon	25529-04-04 17:31 G	11045429.21	11045429.23	11045429.33	0.0088	0.0086
Earth	25529-04-04 19:55 G	11045429.28	11045429.33	11045429.43	0.0088	0.0084 *
Earth	25530-04-07 06:14 G	11045796.67	11045796.76	11045796.90	0.0088	0.0078
Moon	25530-04-07 09:21 G	11045796.78	11045796.89	11045797.01	0.0088	0.0077 *
Moon	25531-04-09 13:26 G	11046163.93	11046164.06	11046164.21	0.0088	0.0073

Earth	25531-04-09 16:48 G	11046164.07	11046164.20	11046164.37	0.0088	0.0072	*
Earth	25532-04-11 02:52 G	11046531.48	11046531.62	11046531.82	0.0088	0.0066	
Moon	25532-04-11 06:14 G	11046531.62	11046531.76	11046531.97	0.0088	0.0065	*
Moon	25533-04-13 10:04 G	11046898.75	11046898.92	11046899.12	0.0088	0.0060	
Earth	25533-04-13 13:40 G	11046898.89	11046899.07	11046899.27	0.0088	0.0059	*
Earth	25534-04-15 23:31 G	11047266.30	11047266.48	11047266.71	0.0088	0.0053	
Moon	25534-04-16 02:09 G	11047266.39	11047266.59	11047266.82	0.0088	0.0052	*
Moon	25535-04-18 09:07 G	11047633.68	11047633.88	11047634.09	0.0088	0.0047	
Earth	25535-04-18 10:19 G	11047633.72	11047633.93	11047634.15	0.0088	0.0046	*
Earth	25536-04-19 20:09 G	11048001.13	11048001.34	11048001.59	0.0088	0.0040	
Moon	25536-04-19 21:07 G	11048001.14	11048001.38	11048001.62	0.0088	0.0039	*
Earth	25537-04-22 06:43 G	11048368.55	11048368.78	11048369.03	0.0088	0.0033	
Moon	25537-04-22 08:09 G	11048368.61	11048368.84	11048369.07	0.0088	0.0034	*
Moon	25538-04-24 14:38 G	11048735.86	11048736.11	11048736.37	0.0088	0.0025	
Earth	25538-04-24 16:48 G	11048735.97	11048736.20	11048736.46	0.0088	0.0027	*
Earth	25539-04-27 03:21 G	11049103.40	11049103.64	11049103.90	0.0088	0.0020	
Moon	25539-04-27 06:14 G	11049103.52	11049103.76	11049104.01	0.0088	0.0020	*
Moon	25540-04-28 10:19 G	11049470.67	11049470.93	11049471.18	0.0088	0.0012	
Earth	25540-04-28 13:55 G	11049470.83	11049471.08	11049471.34	0.0088	0.0013	*
Mars	25540-08-29 08:38 G	11049593.70	11049593.86	11049594.11	0.0088	0.0072	
Earth	25541-05-01 00:14 G	11049838.26	11049838.51	11049838.77	0.0088	0.0006	
Moon	25541-05-01 03:36 G	11049838.40	11049838.65	11049838.91	0.0088	0.0007	*
Moon	25542-05-03 07:40 G	11050205.57	11050205.82	11050206.08	0.0088	0.0001	
Earth	25542-05-03 10:48 G	11050205.70	11050205.95	11050206.21	0.0088	0.0002	*
Mars	25542-07-26 23:02 G	11050290.12	11050290.46	11050290.82	0.0088	0.0009	
Earth	25543-05-05 21:21 G	11050573.14	11050573.39	11050573.65	0.0088	0.0007	
Moon	25543-05-05 23:31 G	11050573.22	11050573.48	11050573.75	0.0088	0.0007	*
Moon	25544-05-07 07:12 G	11050940.55	11050940.80	11050941.04	0.0088	0.0014	
Earth	25544-05-07 07:55 G	11050940.58	11050940.83	11050941.09	0.0088	0.0014	*
Moon	25545-05-09 18:14 G	11051308.01	11051308.26	11051308.53	0.0088	0.0021	

Earth	25545-05-09 18:14 G	11051308.02	11051308.26	11051308.52	0.0088	0.0021	*
Earth	25546-05-12 04:33 G	11051675.46	11051675.69	11051675.95	0.0088	0.0028	
Moon	25546-05-12 06:14 G	11051675.54	11051675.76	11051676.01	0.0088	0.0028	*
Moon	25547-05-14 12:14 G	11052042.79	11052043.01	11052043.28	0.0088	0.0034	
Earth	25547-05-14 15:21 G	11052042.91	11052043.14	11052043.38	0.0088	0.0034	*
Earth	25548-05-16 01:40 G	11052410.36	11052410.57	11052410.81	0.0088	0.0041	
Moon	25548-05-16 05:02 G	11052410.49	11052410.71	11052410.94	0.0088	0.0040	*
Moon	25549-05-18 08:38 G	11052777.65	11052777.86	11052778.08	0.0088	0.0047	
Earth	25549-05-18 12:00 G	11052777.81	11052778.00	11052778.24	0.0088	0.0048	*
Earth	25550-05-20 22:48 G	11053145.26	11053145.45	11053145.67	0.0088	0.0054	
Moon	25550-05-21 01:55 G	11053145.40	11053145.58	11053145.81	0.0088	0.0054	*
Moon	25551-05-23 06:43 G	11053512.61	11053512.78	11053512.97	0.0088	0.0061	
Earth	25551-05-23 09:21 G	11053512.73	11053512.89	11053513.10	0.0088	0.0061	*
Earth	25552-05-24 19:55 G	11053880.19	11053880.33	11053880.52	0.0088	0.0067	
Moon	25552-05-24 22:04 G	11053880.26	11053880.42	11053880.60	0.0088	0.0066	*
Moon	25553-05-27 06:14 G	11054247.65	11054247.76	11054247.92	0.0088	0.0074	
Earth	25553-05-27 06:57 G	11054247.67	11054247.79	11054247.95	0.0088	0.0073	*
Moon	25554-05-29 17:45 G	11054615.13	11054615.24	11054615.37	0.0088	0.0078	
Earth	25554-05-29 18:14 G	11054615.15	11054615.26	11054615.37	0.0088	0.0079	*
Earth	25555-06-01 04:33 G	11054982.66	11054982.69	11054982.77	0.0088	0.0086	
Moon	25555-06-01 06:43 G	11054982.75	11054982.78	11054982.85	0.0088	0.0087	*
Venus	25573-03-31 02:24 G	11061495.54	11061495.60	11061495.67	0.0089	0.0084	
Venus	25573-11-11 15:21 G	11061721.00	11061721.14	11061721.29	0.0089	0.0065	
Venus	25574-06-25 04:19 G	11061946.50	11061946.68	11061946.88	0.0089	0.0046	
Venus	25575-02-05 17:16 G	11062172.02	11062172.22	11062172.44	0.0089	0.0027	
Venus	25575-09-19 06:28 G	11062397.55	11062397.77	11062397.99	0.0089	0.0007	
Venus	25576-05-01 19:40 G	11062623.10	11062623.32	11062623.54	0.0089	0.0012	
Venus	25576-12-13 08:24 G	11062848.66	11062848.85	11062849.07	0.0089	0.0032	
Venus	25577-07-26 21:21 G	11063074.22	11063074.39	11063074.59	0.0089	0.0051	
Venus	25578-03-09 10:33 G	11063299.82	11063299.94	11063300.08	0.0089	0.0070	

Mercury	25586-03-16 03:50 G	11066228.63	11066228.66	11066228.72	0.0089	0.0085
Mercury	25586-06-12 06:43 G	11066316.70	11066316.78	11066316.88	0.0089	0.0076
Mercury	25586-09-08 09:21 G	11066404.80	11066404.89	11066405.03	0.0089	0.0068
Mercury	25586-12-05 12:43 G	11066492.90	11066493.03	11066493.16	0.0089	0.0057
Mercury	25587-03-03 15:21 G	11066581.00	11066581.14	11066581.29	0.0089	0.0048
Mercury	25587-05-30 18:00 G	11066669.11	11066669.25	11066669.42	0.0089	0.0040
Mercury	25587-08-26 20:52 G	11066757.22	11066757.37	11066757.54	0.0089	0.0030
Mercury	25587-11-22 23:45 G	11066845.33	11066845.49	11066845.66	0.0089	0.0021
Mercury	25588-02-19 02:38 G	11066933.44	11066933.61	11066933.78	0.0089	0.0012
Mercury	25588-05-17 05:31 G	11067021.55	11067021.73	11067021.90	0.0089	0.0003
Mercury	25588-08-13 08:09 G	11067109.67	11067109.84	11067110.01	0.0089	0.0007
Mercury	25588-11-09 10:48 G	11067197.78	11067197.95	11067198.12	0.0089	0.0016
Mercury	25589-02-05 13:40 G	11067285.90	11067286.07	11067286.23	0.0089	0.0025
Mercury	25589-05-04 16:19 G	11067374.02	11067374.18	11067374.34	0.0089	0.0033
Mercury	25589-07-31 18:57 G	11067462.14	11067462.29	11067462.44	0.0089	0.0042
Mercury	25589-10-27 21:36 G	11067550.27	11067550.40	11067550.54	0.0089	0.0051
Mercury	25590-01-24 00:14 G	11067638.39	11067638.51	11067638.64	0.0089	0.0060
Mercury	25590-04-22 02:38 G	11067726.52	11067726.61	11067726.73	0.0089	0.0069
Mercury	25590-07-19 05:16 G	11067814.66	11067814.72	11067814.82	0.0089	0.0078
Mercury	25590-10-15 08:09 G	11067902.81	11067902.84	11067902.88	0.0089	0.0087
Jupiter	25606-02-27 18:43 G	11073517.14	11073517.28	11073517.47	0.0089	0.0085
Moon	25610-10-03 00:00 G	11075195.49	11075195.50	11075195.56	0.0090	0.0089
Earth	25611-10-05 14:52 G	11075563.09	11075563.12	11075563.22	0.0090	0.0087
Moon	25612-10-07 00:43 G	11075930.41	11075930.53	11075930.69	0.0090	0.0076
Earth	25612-10-07 04:33 G	11075930.59	11075930.69	11075930.81	0.0090	0.0080 *
Earth	25613-10-09 17:02 G	11076298.09	11076298.21	11076298.39	0.0090	0.0074
Moon	25613-10-09 21:07 G	11076298.26	11076298.38	11076298.52	0.0090	0.0077 *
Moon	25614-10-12 02:52 G	11076665.47	11076665.62	11076665.83	0.0090	0.0063
Earth	25614-10-12 06:14 G	11076665.61	11076665.76	11076665.95	0.0090	0.0067 *
Earth	25615-10-14 19:26 G	11077033.13	11077033.31	11077033.52	0.0090	0.0060

Moon	25615-10-14 21:21 G	11077033.23	11077033.39	11077033.61	0.0090	0.0064 *
Moon	25616-10-16 06:57 G	11077400.59	11077400.79	11077401.01	0.0090	0.0050
Earth	25616-10-16 08:38 G	11077400.67	11077400.86	11077401.08	0.0090	0.0053 *
Earth	25617-10-18 21:50 G	11077768.20	11077768.41	11077768.64	0.0090	0.0046
Moon	25617-10-18 21:50 G	11077768.21	11077768.41	11077768.65	0.0090	0.0050 *
Earth	25618-10-21 11:02 G	11078135.74	11078135.96	11078136.20	0.0090	0.0039
Moon	25618-10-21 12:00 G	11078135.78	11078136.00	11078136.24	0.0090	0.0036 *
Moon	25619-10-23 22:19 G	11078503.20	11078503.43	11078503.69	0.0090	0.0035
Earth	25619-10-24 00:00 G	11078503.28	11078503.50	11078503.76	0.0090	0.0032 *
Earth	25620-10-25 13:12 G	11078870.82	11078871.05	11078871.31	0.0090	0.0025
Moon	25620-10-25 16:19 G	11078870.95	11078871.18	11078871.44	0.0090	0.0021 *
Moon	25621-10-27 23:02 G	11079238.22	11079238.46	11079238.73	0.0090	0.0021
Earth	25621-10-28 02:38 G	11079238.36	11079238.61	11079238.87	0.0090	0.0017 *
Mars	25622-06-23 10:33 G	11079476.75	11079476.94	11079477.17	0.0090	0.0060
Earth	25622-10-30 15:21 G	11079605.89	11079606.14	11079606.41	0.0090	0.0010
Moon	25622-10-30 18:57 G	11079606.04	11079606.29	11079606.56	0.0090	0.0008 *
Moon	25623-11-02 01:12 G	11079973.30	11079973.55	11079973.81	0.0090	0.0005
Earth	25623-11-02 04:33 G	11079973.43	11079973.69	11079973.95	0.0090	0.0002 *
Mars	25624-05-16 22:04 G	11080170.14	11080170.42	11080170.71	0.0090	0.0008
Earth	25624-11-03 17:31 G	11080340.97	11080341.23	11080341.49	0.0090	0.0005
Moon	25624-11-03 20:09 G	11080341.08	11080341.34	11080341.60	0.0090	0.0008 *
Moon	25625-11-06 04:19 G	11080708.44	11080708.68	11080708.93	0.0090	0.0011
Earth	25625-11-06 06:14 G	11080708.51	11080708.76	11080709.03	0.0090	0.0013 *
Mars	25626-04-10 09:36 G	11080863.77	11080863.90	11080864.08	0.0089	0.0076
Earth	25626-11-08 19:12 G	11081076.05	11081076.30	11081076.56	0.0089	0.0020
Moon	25626-11-08 19:26 G	11081076.07	11081076.31	11081076.58	0.0089	0.0023 *
Earth	25627-11-11 07:40 G	11081443.59	11081443.82	11081444.08	0.0089	0.0028
Moon	25627-11-11 08:38 G	11081443.63	11081443.86	11081444.11	0.0089	0.0025 *
Moon	25628-11-12 19:26 G	11081811.07	11081811.31	11081811.56	0.0089	0.0036
Earth	25628-11-12 20:38 G	11081811.14	11081811.36	11081811.62	0.0089	0.0035 *

Earth	25629-11-15 09:36 G	11082178.69	11082178.90	11082179.14	0.0089	0.0042
Moon	25629-11-15 12:28 G	11082178.81	11082179.02	11082179.26	0.0089	0.0039 *
Moon	25630-11-17 19:12 G	11082546.10	11082546.30	11082546.53	0.0089	0.0051
Earth	25630-11-17 22:19 G	11082546.23	11082546.43	11082546.67	0.0089	0.0049 *
Earth	25631-11-20 11:16 G	11082913.78	11082913.97	11082914.19	0.0089	0.0056
Moon	25631-11-20 14:52 G	11082913.93	11082914.12	11082914.34	0.0089	0.0055 *
Moon	25632-11-21 20:38 G	11083281.21	11083281.36	11083281.56	0.0089	0.0065
Earth	25632-11-22 00:00 G	11083281.34	11083281.50	11083281.71	0.0089	0.0063 *
Earth	25633-11-24 12:43 G	11083648.89	11083649.03	11083649.21	0.0089	0.0069
Moon	25633-11-24 15:21 G	11083649.00	11083649.14	11083649.34	0.0089	0.0069 *
Moon	25634-11-26 23:16 G	11084016.36	11084016.47	11084016.61	0.0089	0.0077
Earth	25634-11-27 01:55 G	11084016.45	11084016.58	11084016.72	0.0089	0.0076 *
Earth	25635-11-29 13:55 G	11084384.01	11084384.08	11084384.20	0.0089	0.0083
Moon	25635-11-29 14:24 G	11084384.02	11084384.10	11084384.24	0.0089	0.0082 *
Earth	25636-12-01 02:24 G	11084751.60	11084751.60	11084751.65	0.0089	0.0089
Venus	25654-10-04 15:50 G	11091268.05	11091268.16	11091268.28	0.0089	0.0074
Venus	25655-05-18 04:33 G	11091493.53	11091493.69	11091493.88	0.0089	0.0055
Venus	25655-12-29 17:31 G	11091719.04	11091719.23	11091719.44	0.0089	0.0036
Venus	25656-08-11 06:28 G	11091944.57	11091944.77	11091945.00	0.0089	0.0017
Venus	25657-03-24 19:40 G	11092170.10	11092170.32	11092170.54	0.0089	0.0003
Venus	25657-11-05 08:52 G	11092395.65	11092395.87	11092396.08	0.0089	0.0022
Venus	25658-06-18 21:21 G	11092621.21	11092621.39	11092621.60	0.0089	0.0042
Venus	25659-01-30 10:04 G	11092846.78	11092846.92	11092847.10	0.0089	0.0061
Venus	25659-09-12 23:02 G	11093072.38	11093072.46	11093072.57	0.0089	0.0080
Mercury	25666-12-24 13:26 G	11095732.04	11095732.06	11095732.10	0.0088	0.0086
Mercury	25667-03-22 15:07 G	11095820.07	11095820.13	11095820.20	0.0088	0.0079
Mercury	25667-06-18 16:33 G	11095908.12	11095908.19	11095908.29	0.0088	0.0072
Mercury	25667-09-14 18:14 G	11095996.17	11095996.26	11095996.37	0.0088	0.0064
Mercury	25667-12-11 19:55 G	11096084.23	11096084.33	11096084.45	0.0088	0.0057
Mercury	25668-03-08 21:21 G	11096172.29	11096172.39	11096172.52	0.0088	0.0051

Mercury	25668-06-04 23:16 G	11096260.35	11096260.47	11096260.60	0.0088	0.0043
Mercury	25668-09-01 00:57 G	11096348.41	11096348.54	11096348.67	0.0088	0.0035
Mercury	25668-11-28 02:24 G	11096436.47	11096436.60	11096436.75	0.0088	0.0029
Mercury	25669-02-24 04:04 G	11096524.54	11096524.67	11096524.82	0.0088	0.0021
Mercury	25669-05-23 06:00 G	11096612.60	11096612.75	11096612.89	0.0088	0.0014
Mercury	25669-08-19 07:40 G	11096700.67	11096700.82	11096700.96	0.0088	0.0007
Mercury	25669-11-15 09:07 G	11096788.74	11096788.88	11096789.03	0.0088	0.0003
Mercury	25670-02-11 10:48 G	11096876.81	11096876.95	11096877.10	0.0088	0.0009
Mercury	25670-05-10 12:28 G	11096964.88	11096965.02	11096965.17	0.0088	0.0016
Mercury	25670-08-06 14:09 G	11097052.95	11097053.09	11097053.23	0.0088	0.0024
Mercury	25670-11-02 15:50 G	11097141.03	11097141.16	11097141.30	0.0088	0.0031
Mercury	25671-01-29 17:31 G	11097229.10	11097229.23	11097229.37	0.0088	0.0039
Mercury	25671-04-27 19:12 G	11097317.18	11097317.30	11097317.43	0.0088	0.0046
Mercury	25671-07-24 20:52 G	11097405.26	11097405.37	11097405.49	0.0088	0.0054
Mercury	25671-10-20 22:33 G	11097493.35	11097493.44	11097493.55	0.0088	0.0061
Mercury	25672-01-17 00:28 G	11097581.43	11097581.52	11097581.61	0.0088	0.0068
Mercury	25672-04-14 01:55 G	11097669.52	11097669.58	11097669.67	0.0088	0.0076
Mercury	25672-07-11 03:50 G	11097757.62	11097757.66	11097757.71	0.0088	0.0084
Moon	25693-04-04 10:04 G	11105329.88	11105329.92	11105330.00	0.0088	0.0085
Moon	25694-04-06 13:40 G	11105697.06	11105697.07	11105697.13	0.0088	0.0087
Earth	25694-04-06 17:02 G	11105697.16	11105697.21	11105697.33	0.0088	0.0083
Earth	25695-04-09 03:21 G	11106064.55	11106064.64	11106064.80	0.0088	0.0077
Moon	25695-04-09 07:26 G	11106064.68	11106064.81	11106064.98	0.0088	0.0072 *
Moon	25696-04-10 11:45 G	11106431.87	11106431.99	11106432.13	0.0088	0.0074
Earth	25696-04-10 14:09 G	11106431.96	11106432.09	11106432.26	0.0088	0.0070 *
Earth	25697-04-13 00:28 G	11106799.37	11106799.52	11106799.72	0.0088	0.0064
Moon	25697-04-13 03:07 G	11106799.44	11106799.63	11106799.83	0.0088	0.0059 *
Moon	25698-04-15 09:50 G	11107166.76	11107166.91	11107167.12	0.0088	0.0062
Earth	25698-04-15 11:02 G	11107166.78	11107166.96	11107167.17	0.0088	0.0057 *
Moon	25699-04-17 20:24 G	11107534.15	11107534.35	11107534.60	0.0088	0.0047

Earth	25699-04-17 21:07 G	11107534.20	11107534.38	11107534.62	0.0088	0.0051	*
Earth	25700-04-20 07:40 G	11107901.61	11107901.82	11107902.06	0.0088	0.0044	
Moon	25700-04-20 09:07 G	11107901.69	11107901.88	11107902.10	0.0088	0.0048	*
Moon	25701-04-22 15:07 G	11108268.90	11108269.13	11108269.39	0.0088	0.0033	
Earth	25701-04-22 18:00 G	11108269.03	11108269.25	11108269.50	0.0088	0.0037	*
Earth	25702-04-25 04:33 G	11108636.45	11108636.69	11108636.94	0.0088	0.0030	
Moon	25702-04-25 07:55 G	11108636.60	11108636.83	11108637.07	0.0088	0.0034	*
Moon	25703-04-27 11:31 G	11109003.73	11109003.98	11109004.24	0.0088	0.0019	
Earth	25703-04-27 15:07 G	11109003.88	11109004.13	11109004.38	0.0088	0.0023	*
Earth	25704-04-29 01:12 G	11109371.30	11109371.55	11109371.81	0.0088	0.0016	
Moon	25704-04-29 04:48 G	11109371.45	11109371.70	11109371.96	0.0088	0.0021	*
Moon	25705-05-01 09:21 G	11109738.64	11109738.89	11109739.15	0.0088	0.0005	
Earth	25705-05-01 11:45 G	11109738.74	11109738.99	11109739.25	0.0088	0.0009	*
Mars	25706-03-10 06:57 G	11110051.45	11110051.79	11110052.14	0.0088	0.0018	
Earth	25706-05-03 22:19 G	11110106.17	11110106.43	11110106.69	0.0088	0.0002	
Moon	25706-05-04 00:00 G	11110106.24	11110106.50	11110106.77	0.0088	0.0007	*
Moon	25707-05-06 08:24 G	11110473.60	11110473.85	11110474.10	0.0088	0.0009	
Earth	25707-05-06 08:38 G	11110473.61	11110473.86	11110474.12	0.0088	0.0005	*
Mars	25708-02-04 20:09 G	11110748.12	11110748.34	11110748.62	0.0088	0.0062	
Moon	25708-05-07 18:00 G	11110840.99	11110841.25	11110841.53	0.0088	0.0008	
Earth	25708-05-07 19:12 G	11110841.05	11110841.30	11110841.56	0.0088	0.0012	*
Earth	25709-05-10 05:31 G	11111208.49	11111208.73	11111209.00	0.0088	0.0019	
Moon	25709-05-10 07:26 G	11111208.58	11111208.81	11111209.06	0.0088	0.0023	*
Moon	25710-05-12 13:12 G	11111575.81	11111576.05	11111576.32	0.0088	0.0021	
Earth	25710-05-12 16:19 G	11111575.94	11111576.18	11111576.44	0.0088	0.0026	*
Earth	25711-05-15 02:38 G	11111943.39	11111943.61	11111943.87	0.0088	0.0033	
Moon	25711-05-15 06:14 G	11111943.54	11111943.76	11111944.01	0.0088	0.0037	*
Moon	25712-05-16 09:50 G	11112310.68	11112310.91	11112311.16	0.0088	0.0035	
Earth	25712-05-16 12:57 G	11112310.84	11112311.04	11112311.30	0.0088	0.0040	*
Earth	25713-05-18 23:45 G	11112678.29	11112678.49	11112678.72	0.0088	0.0046	



Moon	25713-05-19 03:07 G	11112678.43	11112678.63	11112678.86	0.0088	0.0051	*
Moon	25714-05-21 08:09 G	11113045.65	11113045.84	11113046.07	0.0088	0.0049	
Earth	25714-05-21 10:19 G	11113045.75	11113045.93	11113046.15	0.0088	0.0053	*
Earth	25715-05-23 20:38 G	11113413.20	11113413.36	11113413.58	0.0088	0.0060	
Moon	25715-05-23 22:19 G	11113413.27	11113413.43	11113413.64	0.0088	0.0064	*
Moon	25716-05-25 07:26 G	11113780.65	11113780.81	11113781.01	0.0088	0.0062	
Earth	25716-05-25 07:40 G	11113780.66	11113780.82	11113781.00	0.0088	0.0066	*
Moon	25717-05-27 16:33 G	11114148.09	11114148.19	11114148.34	0.0088	0.0077	
Earth	25717-05-27 18:00 G	11114148.13	11114148.25	11114148.42	0.0088	0.0073	*
Earth	25718-05-30 05:02 G	11114515.61	11114515.71	11114515.83	0.0088	0.0079	
Moon	25718-05-30 06:57 G	11114515.68	11114515.79	11114515.94	0.0088	0.0075	*
Earth	25719-06-01 16:19 G	11114883.12	11114883.18	11114883.24	0.0088	0.0086	
Moon	25720-06-03 06:14 G	11115250.74	11115250.76	11115250.80	0.0088	0.0087	
Venus	25738-02-14 02:24 G	11121715.49	11121715.60	11121715.75	0.0089	0.0072	
Venus	25738-09-27 15:36 G	11121940.99	11121941.15	11121941.34	0.0089	0.0053	
Venus	25739-05-11 04:48 G	11122166.51	11122166.70	11122166.92	0.0089	0.0034	
Venus	25739-12-22 18:14 G	11122392.04	11122392.26	11122392.47	0.0089	0.0014	
Venus	25740-08-04 07:12 G	11122617.58	11122617.80	11122618.02	0.0089	0.0005	
Venus	25741-03-17 19:55 G	11122843.13	11122843.33	11122843.55	0.0089	0.0025	
Venus	25741-10-29 08:52 G	11123068.69	11123068.87	11123069.08	0.0089	0.0044	
Venus	25742-06-11 22:04 G	11123294.28	11123294.42	11123294.59	0.0089	0.0063	
Venus	25743-01-23 11:16 G	11123519.90	11123519.97	11123520.06	0.0089	0.0082	
Mercury	25750-12-12 03:21 G	11126399.57	11126399.64	11126399.72	0.0089	0.0080	
Mercury	25751-03-10 06:00 G	11126487.66	11126487.75	11126487.87	0.0089	0.0071	
Mercury	25751-06-06 08:52 G	11126575.76	11126575.87	11126576.01	0.0089	0.0062	
Mercury	25751-09-02 12:00 G	11126663.86	11126664.00	11126664.14	0.0089	0.0052	
Mercury	25751-11-29 14:38 G	11126751.97	11126752.11	11126752.27	0.0089	0.0044	
Mercury	25752-02-25 17:31 G	11126840.08	11126840.23	11126840.40	0.0089	0.0034	
Mercury	25752-05-23 20:24 G	11126928.19	11126928.35	11126928.52	0.0089	0.0025	
Mercury	25752-08-19 23:02 G	11127016.30	11127016.46	11127016.64	0.0089	0.0016	

Mercury	25752-11-16 01:55 G	11127104.41	11127104.58	11127104.76	0.0089	0.0007
Mercury	25753-02-12 04:48 G	11127192.53	11127192.70	11127192.87	0.0089	0.0003
Mercury	25753-05-11 07:26 G	11127280.64	11127280.81	11127280.99	0.0089	0.0012
Mercury	25753-08-07 10:19 G	11127368.76	11127368.93	11127369.10	0.0089	0.0021
Mercury	25753-11-03 12:57 G	11127456.88	11127457.04	11127457.20	0.0089	0.0030
Mercury	25754-01-30 15:36 G	11127545.00	11127545.15	11127545.31	0.0089	0.0039
Mercury	25754-04-28 18:14 G	11127633.12	11127633.26	11127633.41	0.0089	0.0048
Mercury	25754-07-25 20:52 G	11127721.25	11127721.37	11127721.51	0.0089	0.0056
Mercury	25754-10-21 23:31 G	11127809.37	11127809.48	11127809.60	0.0089	0.0065
Mercury	25755-01-18 01:55 G	11127897.51	11127897.58	11127897.69	0.0089	0.0075
Mercury	25755-04-16 05:02 G	11127985.65	11127985.71	11127985.77	0.0089	0.0083
Jupiter	25772-05-01 06:28 G	11134210.27	11134210.77	11134211.30	0.0089	0.0014
Earth	25776-10-07 13:55 G	11135831.01	11135831.08	11135831.17	0.0090	0.0085
Moon	25776-10-07 17:02 G	11135831.16	11135831.21	11135831.30	0.0090	0.0086 *
Moon	25777-10-10 00:00 G	11136198.39	11136198.50	11136198.65	0.0090	0.0077
Earth	25777-10-10 02:24 G	11136198.51	11136198.60	11136198.76	0.0090	0.0079 *
Earth	25778-10-12 15:36 G	11136566.02	11136566.15	11136566.33	0.0090	0.0072
Moon	25778-10-12 18:14 G	11136566.11	11136566.26	11136566.41	0.0090	0.0073 *
Moon	25779-10-15 04:48 G	11136933.53	11136933.70	11136933.88	0.0090	0.0063
Earth	25779-10-15 04:33 G	11136933.54	11136933.69	11136933.90	0.0090	0.0065 *
Moon	25780-10-16 17:45 G	11137301.05	11137301.24	11137301.45	0.0090	0.0059
Earth	25780-10-16 18:14 G	11137301.07	11137301.26	11137301.46	0.0090	0.0057 *
Earth	25781-10-19 07:12 G	11137668.59	11137668.80	11137669.02	0.0090	0.0050
Moon	25781-10-19 08:38 G	11137668.66	11137668.86	11137669.08	0.0090	0.0048 *
Moon	25782-10-21 17:16 G	11138036.00	11138036.22	11138036.46	0.0090	0.0044
Earth	25782-10-21 19:55 G	11138036.12	11138036.33	11138036.58	0.0090	0.0043 *
Earth	25783-10-24 09:07 G	11138403.66	11138403.88	11138404.13	0.0090	0.0036
Moon	25783-10-24 12:14 G	11138403.79	11138404.01	11138404.26	0.0090	0.0033 *
Moon	25784-10-25 18:43 G	11138771.05	11138771.28	11138771.54	0.0090	0.0031
Earth	25784-10-25 22:33 G	11138771.20	11138771.44	11138771.70	0.0090	0.0028 *

Earth	25785-10-28 11:31 G	11139138.74	11139138.98	11139139.24	0.0090	0.0021
Moon	25785-10-28 15:07 G	11139138.88	11139139.13	11139139.39	0.0090	0.0018 *
Mars	25786-02-07 04:33 G	11139240.61	11139240.69	11139240.83	0.0090	0.0083
Moon	25786-10-30 21:50 G	11139506.16	11139506.41	11139506.66	0.0090	0.0016
Earth	25786-10-31 00:57 G	11139506.28	11139506.54	11139506.80	0.0090	0.0013 *
Earth	25787-11-02 13:55 G	11139873.82	11139874.08	11139874.34	0.0090	0.0005
Moon	25787-11-02 16:19 G	11139873.91	11139874.18	11139874.44	0.0090	0.0002 *
Mars	25788-01-01 15:50 G	11139933.88	11139934.16	11139934.44	0.0090	0.0015
Moon	25788-11-04 02:09 G	11140241.34	11140241.59	11140241.84	0.0090	0.0001
Earth	25788-11-04 02:53 G	11140241.36	11140241.62	11140241.88	0.0090	0.0003 *
Earth	25789-11-06 15:50 G	11140608.90	11140609.16	11140609.42	0.0090	0.0010
Moon	25789-11-06 15:36 G	11140608.90	11140609.15	11140609.43	0.0090	0.0014 *
Mars	25789-11-25 02:09 G	11140627.38	11140627.59	11140627.84	0.0090	0.0053
Earth	25790-11-09 04:19 G	11140976.43	11140976.68	11140976.94	0.0090	0.0018
Moon	25790-11-09 05:45 G	11140976.50	11140976.74	11140976.99	0.0090	0.0014 *
Moon	25791-11-11 14:38 G	11141343.86	11141344.11	11141344.37	0.0089	0.0028
Earth	25791-11-11 17:17 G	11141343.98	11141344.22	11141344.47	0.0089	0.0025 *
Earth	25792-11-13 05:45 G	11141711.52	11141711.74	11141712.00	0.0089	0.0033
Moon	25792-11-13 08:53 G	11141711.64	11141711.87	11141712.12	0.0089	0.0028 *
Moon	25793-11-15 14:53 G	11142078.91	11142079.12	11142079.36	0.0089	0.0044
Earth	25793-11-15 18:29 G	11142079.06	11142079.27	11142079.52	0.0089	0.0040 *
Earth	25794-11-18 07:26 G	11142446.60	11142446.81	11142447.04	0.0089	0.0047
Moon	25794-11-18 10:33 G	11142446.74	11142446.94	11142447.19	0.0089	0.0044 *
Moon	25795-11-20 16:48 G	11142814.03	11142814.20	11142814.42	0.0089	0.0059
Earth	25795-11-20 20:38 G	11142814.15	11142814.36	11142814.56	0.0089	0.0054 *
Earth	25796-11-22 08:53 G	11143181.70	11143181.87	11143182.08	0.0089	0.0061
Moon	25796-11-22 11:31 G	11143181.79	11143181.98	11143182.20	0.0089	0.0057 *
Moon	25797-11-24 20:24 G	11143549.23	11143549.35	11143549.53	0.0089	0.0073
Earth	25797-11-24 21:36 G	11143549.26	11143549.40	11143549.59	0.0089	0.0069 *
Moon	25798-11-27 11:17 G	11143916.81	11143916.97	11143917.14	0.0089	0.0071

Earth	25798-11-27 10:19 G	11143916.82	11143916.93	11143917.09	0.0089	0.0076 *
Earth	25799-11-29 23:31 G	11144284.39	11144284.48	11144284.59	0.0089	0.0082
Moon	25799-11-30 00:14 G	11144284.47	11144284.51	11144284.59	0.0089	0.0087 *
Moon	25800-12-02 09:36 G	11144651.84	11144651.90	11144652.00	0.0089	0.0085
Earth	25800-12-02 12:00 G	11144651.99	11144652.00	11144652.05	0.0089	0.0089 *
Venus	25819-01-08 03:07 G	11151262.55	11151262.63	11151262.73	0.0089	0.0081
Venus	25819-08-21 16:05 G	11151488.02	11151488.17	11151488.33	0.0089	0.0062
Venus	25820-04-03 04:48 G	11151713.52	11151713.70	11151713.91	0.0089	0.0043
Venus	25820-11-14 18:00 G	11151939.05	11151939.25	11151939.47	0.0089	0.0024
Venus	25821-06-28 07:12 G	11152164.58	11152164.80	11152165.02	0.0089	0.0005
Venus	25822-02-08 19:55 G	11152390.12	11152390.33	11152390.55	0.0089	0.0015
Venus	25822-09-22 08:53 G	11152615.67	11152615.87	11152616.08	0.0089	0.0034
Venus	25823-05-05 21:21 G	11152841.24	11152841.39	11152841.59	0.0089	0.0054
Venus	25823-12-17 10:19 G	11153066.83	11153066.93	11153067.08	0.0089	0.0073
Mercury	25831-09-22 12:57 G	11155903.01	11155903.04	11155903.11	0.0088	0.0083
Mercury	25831-12-19 15:07 G	11155991.05	11155991.13	11155991.20	0.0088	0.0075
Mercury	25832-03-16 16:33 G	11156079.10	11156079.19	11156079.28	0.0088	0.0068
Mercury	25832-06-12 18:00 G	11156167.16	11156167.25	11156167.36	0.0088	0.0061
Mercury	25832-09-08 19:41 G	11156255.21	11156255.32	11156255.44	0.0088	0.0053
Mercury	25832-12-05 21:07 G	11156343.27	11156343.38	11156343.51	0.0088	0.0047
Mercury	25833-03-03 22:48 G	11156431.33	11156431.45	11156431.59	0.0088	0.0039
Mercury	25833-05-31 00:43 G	11156519.39	11156519.53	11156519.66	0.0088	0.0032
Mercury	25833-08-27 02:09 G	11156607.46	11156607.59	11156607.73	0.0088	0.0025
Mercury	25833-11-23 03:50 G	11156695.52	11156695.66	11156695.81	0.0088	0.0017
Mercury	25834-02-19 05:31 G	11156783.59	11156783.73	11156783.88	0.0088	0.0010
Mercury	25834-05-18 07:12 G	11156871.66	11156871.80	11156871.95	0.0088	0.0002
Mercury	25834-08-14 08:53 G	11156959.73	11156959.87	11156960.01	0.0088	0.0005
Mercury	25834-11-10 10:33 G	11157047.80	11157047.94	11157048.08	0.0088	0.0012
Mercury	25835-02-06 12:00 G	11157135.87	11157136.00	11157136.15	0.0088	0.0021
Mercury	25835-05-05 13:55 G	11157223.94	11157224.08	11157224.22	0.0088	0.0027

Mercury	25835-08-01 15:36 G	11157312.02	11157312.15	11157312.28	0.0088	0.0035
Mercury	25835-10-28 17:02 G	11157400.09	11157400.21	11157400.35	0.0088	0.0043
Mercury	25836-01-24 18:57 G	11157488.17	11157488.29	11157488.41	0.0088	0.0050
Mercury	25836-04-21 20:24 G	11157576.25	11157576.35	11157576.47	0.0088	0.0058
Mercury	25836-07-18 22:05 G	11157664.34	11157664.42	11157664.53	0.0088	0.0065
Mercury	25836-10-15 00:00 G	11157752.42	11157752.50	11157752.59	0.0088	0.0072
Mercury	25837-01-11 01:26 G	11157840.52	11157840.56	11157840.64	0.0088	0.0080
Mercury	25837-04-09 03:21 G	11157928.64	11157928.64	11157928.67	0.0088	0.0088
Earth	25858-04-08 05:31 G	11165597.71	11165597.73	11165597.75	0.0088	0.0087
Moon	25859-04-10 12:43 G	11165964.94	11165965.03	11165965.15	0.0088	0.0079
Earth	25859-04-10 15:21 G	11165965.06	11165965.14	11165965.26	0.0088	0.0081 *
Earth	25860-04-12 01:26 G	11166332.46	11166332.56	11166332.73	0.0088	0.0075
Moon	25860-04-12 02:53 G	11166332.52	11166332.62	11166332.77	0.0088	0.0077 *
Moon	25861-04-14 12:00 G	11166699.85	11166700.00	11166700.17	0.0088	0.0066
Earth	25861-04-14 12:14 G	11166699.86	11166700.01	11166700.19	0.0088	0.0068 *
Moon	25862-04-16 21:50 G	11167067.24	11167067.41	11167067.61	0.0088	0.0063
Earth	25862-04-16 22:48 G	11167067.28	11167067.45	11167067.64	0.0088	0.0061 *
Earth	25863-04-19 08:53 G	11167434.69	11167434.87	11167435.09	0.0088	0.0055
Moon	25863-04-19 11:31 G	11167434.79	11167434.98	11167435.19	0.0088	0.0052 *
Moon	25864-04-20 16:19 G	11167801.99	11167802.18	11167802.42	0.0088	0.0050
Earth	25864-04-20 19:12 G	11167802.11	11167802.30	11167802.54	0.0088	0.0048 *
Earth	25865-04-23 05:45 G	11168169.53	11168169.74	11168169.98	0.0088	0.0041
Moon	25865-04-23 09:21 G	11168169.67	11168169.89	11168170.13	0.0088	0.0039 *
Moon	25866-04-25 12:57 G	11168536.81	11168537.04	11168537.28	0.0088	0.0036
Earth	25866-04-25 16:05 G	11168536.95	11168537.17	11168537.43	0.0088	0.0034 *
Earth	25867-04-28 02:24 G	11168904.37	11168904.60	11168904.86	0.0088	0.0027
Moon	25867-04-28 05:45 G	11168904.49	11168904.74	11168904.99	0.0088	0.0025 *
Moon	25868-04-29 10:33 G	11169271.70	11169271.94	11169272.19	0.0088	0.0021
Earth	25868-04-29 12:43 G	11169271.80	11169272.03	11169272.30	0.0088	0.0020 *
Earth	25869-05-01 23:17 G	11169639.22	11169639.47	11169639.73	0.0088	0.0013

Moon	25869-05-02 00:00 G	11169639.25	11169639.50	11169639.78	0.0088	0.0011	*
Mars	25869-10-22 14:24 G	11169812.83	11169813.10	11169813.43	0.0088	0.0045	
Earth	25870-05-04 09:50 G	11170006.65	11170006.91	11170007.17	0.0088	0.0005	
Moon	25870-05-04 09:50 G	11170006.66	11170006.91	11170007.16	0.0088	0.0007	*
Moon	25871-05-06 18:57 G	11170374.03	11170374.29	11170374.56	0.0088	0.0003	
Earth	25871-05-06 20:09 G	11170374.09	11170374.34	11170374.60	0.0088	0.0002	*
Mars	25871-09-19 04:48 G	11170509.39	11170509.70	11170510.03	0.0088	0.0035	
Earth	25872-05-08 06:29 G	11170741.52	11170741.77	11170742.03	0.0088	0.0009	
Moon	25872-05-08 09:21 G	11170741.64	11170741.89	11170742.14	0.0088	0.0007	*
Moon	25873-05-10 13:55 G	11171108.83	11171109.08	11171109.35	0.0088	0.0018	
Earth	25873-05-10 17:17 G	11171108.97	11171109.22	11171109.47	0.0088	0.0016	*
Earth	25874-05-13 03:50 G	11171476.41	11171476.66	11171476.91	0.0088	0.0023	
Moon	25874-05-13 07:26 G	11171476.57	11171476.81	11171477.06	0.0088	0.0022	*
Moon	25875-05-15 11:17 G	11171843.73	11171843.97	11171844.20	0.0088	0.0032	
Earth	25875-05-15 14:09 G	11171843.86	11171844.09	11171844.35	0.0088	0.0031	*
Earth	25876-05-17 00:43 G	11172211.31	11172211.53	11172211.78	0.0088	0.0038	
Moon	25876-05-17 03:50 G	11172211.43	11172211.66	11172211.91	0.0088	0.0037	*
Moon	25877-05-19 09:07 G	11172578.69	11172578.88	11172579.12	0.0088	0.0046	
Earth	25877-05-19 11:17 G	11172578.77	11172578.97	11172579.22	0.0088	0.0045	*
Earth	25878-05-21 21:50 G	11172946.23	11172946.41	11172946.64	0.0088	0.0052	
Moon	25878-05-21 22:33 G	11172946.24	11172946.44	11172946.67	0.0088	0.0050	*
Earth	25879-05-24 09:07 G	11173313.69	11173313.88	11173314.07	0.0088	0.0058	
Moon	25879-05-24 09:21 G	11173313.71	11173313.89	11173314.08	0.0088	0.0059	*
Moon	25880-05-25 17:45 G	11173681.07	11173681.24	11173681.43	0.0088	0.0064	
Earth	25880-05-25 19:26 G	11173681.15	11173681.31	11173681.49	0.0088	0.0065	*
Earth	25881-05-28 06:00 G	11174048.62	11174048.75	11174048.91	0.0088	0.0072	
Moon	25881-05-28 08:38 G	11174048.75	11174048.86	11174049.02	0.0088	0.0074	*
Moon	25882-05-30 13:26 G	11174415.96	11174416.06	11174416.20	0.0088	0.0078	
Earth	25882-05-30 16:33 G	11174416.11	11174416.19	11174416.33	0.0088	0.0079	*
Earth	25883-06-02 03:21 G	11174783.60	11174783.64	11174783.72	0.0088	0.0086	

Moon	25883-06-02 06:43 G	11174783.76	11174783.78	11174783.87	0.0088	0.0086
Venus	25902-05-20 13:55 G	11181710.01	11181710.08	11181710.21	0.0089	0.0079
Venus	25903-01-01 03:36 G	11181935.49	11181935.65	11181935.81	0.0089	0.0059
Venus	25903-08-14 16:33 G	11182161.00	11182161.19	11182161.39	0.0089	0.0040
Venus	25904-03-27 05:31 G	11182386.52	11182386.73	11182386.95	0.0089	0.0021
Venus	25904-11-07 18:43 G	11182612.06	11182612.28	11182612.50	0.0089	0.0002
Venus	25905-06-21 07:41 G	11182837.61	11182837.82	11182838.04	0.0089	0.0018
Venus	25906-02-01 20:38 G	11183063.17	11183063.36	11183063.57	0.0089	0.0037
Venus	25906-09-15 09:36 G	11183288.74	11183288.90	11183289.08	0.0089	0.0056
Venus	25907-04-28 23:02 G	11183514.34	11183514.46	11183514.57	0.0089	0.0075
Mercury	25915-06-14 00:00 G	11186482.45	11186482.50	11186482.55	0.0089	0.0084
Mercury	25915-09-10 02:38 G	11186570.53	11186570.61	11186570.71	0.0089	0.0075
Mercury	25915-12-07 05:31 G	11186658.62	11186658.73	11186658.86	0.0089	0.0066
Mercury	25916-03-04 08:38 G	11186746.73	11186746.86	11186747.00	0.0089	0.0056
Mercury	25916-05-31 11:17 G	11186834.83	11186834.97	11186835.13	0.0089	0.0047
Mercury	25916-08-27 14:09 G	11186922.94	11186923.09	11186923.26	0.0089	0.0038
Mercury	25916-11-23 17:02 G	11187011.05	11187011.21	11187011.38	0.0089	0.0029
Mercury	25917-02-19 19:55 G	11187099.16	11187099.33	11187099.50	0.0089	0.0020
Mercury	25917-05-18 22:48 G	11187187.28	11187187.45	11187187.62	0.0089	0.0010
Mercury	25917-08-15 01:26 G	11187275.39	11187275.56	11187275.74	0.0089	0.0003
Mercury	25917-11-11 04:19 G	11187363.51	11187363.68	11187363.85	0.0089	0.0008
Mercury	25918-02-07 06:57 G	11187451.62	11187451.79	11187451.96	0.0089	0.0017
Mercury	25918-05-06 09:36 G	11187539.74	11187539.90	11187540.07	0.0089	0.0026
Mercury	25918-08-02 12:14 G	11187627.86	11187628.01	11187628.18	0.0089	0.0035
Mercury	25918-10-29 14:53 G	11187715.98	11187716.12	11187716.28	0.0089	0.0044
Mercury	25919-01-25 17:31 G	11187804.11	11187804.23	11187804.38	0.0089	0.0053
Mercury	25919-04-23 20:38 G	11187892.24	11187892.36	11187892.48	0.0089	0.0062
Mercury	25919-07-20 23:02 G	11187980.37	11187980.46	11187980.57	0.0089	0.0071
Mercury	25919-10-17 01:41 G	11188068.51	11188068.57	11188068.66	0.0089	0.0079
Mercury	25920-01-13 04:05 G	11188156.67	11188156.67	11188156.72	0.0089	0.0089

Jupiter	25938-07-01 00:14 G	11194900.15	11194900.51	11194900.91	0.0090	0.0061
Earth	25941-10-11 12:00 G	11196098.94	11196099.00	11196099.12	0.0090	0.0084
Moon	25941-10-11 13:41 G	11196098.95	11196099.07	11196099.20	0.0090	0.0079 *
Earth	25942-10-14 01:26 G	11196466.44	11196466.56	11196466.71	0.0090	0.0076
Moon	25942-10-14 00:57 G	11196466.45	11196466.54	11196466.67	0.0090	0.0081 *
Moon	25943-10-16 12:43 G	11196833.87	11196834.03	11196834.24	0.0090	0.0065
Earth	25943-10-16 14:38 G	11196833.95	11196834.11	11196834.28	0.0090	0.0069 *
Earth	25944-10-18 03:21 G	11197201.47	11197201.64	11197201.85	0.0090	0.0062
Moon	25944-10-18 05:45 G	11197201.58	11197201.74	11197201.92	0.0090	0.0066 *
Moon	25945-10-20 13:26 G	11197568.86	11197569.06	11197569.29	0.0090	0.0050
Earth	25945-10-20 16:19 G	11197569.00	11197569.18	11197569.40	0.0090	0.0055 *
Earth	25946-10-23 05:31 G	11197936.52	11197936.73	11197936.96	0.0090	0.0047
Moon	25946-10-23 08:53 G	11197936.68	11197936.87	11197937.10	0.0090	0.0052 *
Moon	25947-10-25 15:07 G	11198303.91	11198304.13	11198304.38	0.0090	0.0036
Earth	25947-10-25 18:29 G	11198304.06	11198304.27	11198304.52	0.0090	0.0040 *
Earth	25948-10-27 07:41 G	11198671.59	11198671.82	11198672.07	0.0090	0.0032
Moon	25948-10-27 11:02 G	11198671.74	11198671.96	11198672.21	0.0090	0.0036 *
Moon	25949-10-29 18:43 G	11199039.04	11199039.28	11199039.53	0.0090	0.0020
Earth	25949-10-29 20:38 G	11199039.13	11199039.36	11199039.63	0.0090	0.0025 *
Earth	25950-11-01 09:50 G	11199406.67	11199406.91	11199407.18	0.0090	0.0017
Moon	25950-11-01 11:45 G	11199406.73	11199406.99	11199407.25	0.0090	0.0020 *
Mars	25951-08-19 10:33 G	11199697.70	11199697.94	11199698.22	0.0090	0.0038
Moon	25951-11-03 22:48 G	11199774.20	11199774.45	11199774.70	0.0090	0.0005
Earth	25951-11-03 23:17 G	11199774.22	11199774.47	11199774.73	0.0090	0.0009 *
Moon	25952-11-05 11:17 G	11200141.71	11200141.97	11200142.24	0.0090	0.0005
Earth	25952-11-05 12:29 G	11200141.76	11200142.02	11200142.28	0.0090	0.0001 *
Mars	25953-07-12 21:50 G	11200391.16	11200391.41	11200391.70	0.0089	0.0031
Earth	25953-11-08 01:26 G	11200509.30	11200509.56	11200509.82	0.0089	0.0007
Moon	25953-11-08 03:07 G	11200509.38	11200509.63	11200509.88	0.0089	0.0010 *
Moon	25954-11-10 11:31 G	11200876.72	11200876.98	11200877.25	0.0089	0.0011



Earth	25954-11-10 14:24 G	11200876.85	11200877.10	11200877.36	0.0089	0.0015	*
Earth	25955-11-13 03:07 G	11201244.39	11201244.63	11201244.89	0.0089	0.0022	
Moon	25955-11-13 06:29 G	11201244.54	11201244.77	11201245.03	0.0089	0.0027	*
Moon	25956-11-14 12:29 G	11201611.78	11201612.02	11201612.28	0.0089	0.0027	
Earth	25956-11-14 15:50 G	11201611.93	11201612.16	11201612.42	0.0089	0.0030	*
Earth	25957-11-17 04:33 G	11201979.47	11201979.69	11201979.94	0.0089	0.0038	
Moon	25957-11-17 08:09 G	11201979.62	11201979.84	11201980.09	0.0089	0.0041	*
Moon	25958-11-19 15:07 G	11202346.91	11202347.13	11202347.36	0.0089	0.0042	
Earth	25958-11-19 17:17 G	11202347.02	11202347.22	11202347.46	0.0089	0.0046	*
Earth	25959-11-22 06:14 G	11202714.56	11202714.76	11202714.98	0.0089	0.0053	
Moon	25959-11-22 08:09 G	11202714.65	11202714.84	11202715.07	0.0089	0.0055	*
Moon	25960-11-23 18:00 G	11203082.08	11203082.25	11203082.46	0.0089	0.0058	
Earth	25960-11-23 19:12 G	11203082.11	11203082.30	11203082.50	0.0089	0.0060	*
Moon	25961-11-26 06:57 G	11203449.63	11203449.79	11203449.96	0.0089	0.0070	
Earth	25961-11-26 07:26 G	11203449.66	11203449.81	11203450.00	0.0089	0.0067	*
Earth	25962-11-28 20:09 G	11203817.22	11203817.34	11203817.51	0.0089	0.0075	
Moon	25962-11-28 21:36 G	11203817.28	11203817.40	11203817.57	0.0089	0.0073	*
Moon	25963-12-01 06:29 G	11204184.70	11204184.77	11204184.88	0.0089	0.0084	
Earth	25963-12-01 09:07 G	11204184.80	11204184.88	11204185.01	0.0089	0.0082	*
Earth	25964-12-02 21:36 G	11204552.39	11204552.40	11204552.46	0.0089	0.0089	
Moon	25964-12-03 01:12 G	11204552.50	11204552.55	11204552.63	0.0089	0.0086	
Venus	25983-04-12 14:24 G	11211257.09	11211257.10	11211257.15	0.0089	0.0088	
Venus	25983-11-24 03:21 G	11211482.52	11211482.64	11211482.80	0.0089	0.0069	
Venus	25984-07-06 16:19 G	11211708.02	11211708.18	11211708.38	0.0089	0.0050	
Venus	25985-02-17 05:17 G	11211933.53	11211933.72	11211933.94	0.0089	0.0031	
Venus	25985-09-30 18:29 G	11212159.06	11212159.27	11212159.49	0.0089	0.0011	
Venus	25986-05-14 07:26 G	11212384.59	11212384.81	11212385.03	0.0089	0.0008	
Venus	25986-12-25 20:09 G	11212610.14	11212610.34	11212610.56	0.0089	0.0028	
Venus	25987-08-08 08:53 G	11212835.70	11212835.87	11212836.08	0.0089	0.0047	
Venus	25988-03-20 21:50 G	11213061.28	11213061.41	11213061.58	0.0089	0.0066	

Venus	25988-11-01 10:48 G	11213286.91	11213286.95	11213287.04	0.0089	0.0085
Mercury	25996-03-23 11:45 G	11215985.96	11215985.99	11215986.03	0.0088	0.0085
Mercury	25996-06-19 13:26 G	11216073.99	11216074.06	11216074.12	0.0088	0.0078
Mercury	25996-09-15 14:53 G	11216162.04	11216162.12	11216162.21	0.0088	0.0071
Mercury	25996-12-12 16:19 G	11216250.09	11216250.18	11216250.29	0.0088	0.0064
Mercury	25997-03-10 18:00 G	11216338.15	11216338.25	11216338.36	0.0088	0.0056
Mercury	25997-06-06 19:26 G	11216426.20	11216426.31	11216426.44	0.0088	0.0050
Mercury	25997-09-02 21:07 G	11216514.26	11216514.38	11216514.51	0.0088	0.0042
Mercury	25997-11-29 22:48 G	11216602.32	11216602.45	11216602.59	0.0088	0.0035
Mercury	25998-02-26 00:29 G	11216690.39	11216690.52	11216690.66	0.0088	0.0028
Mercury	25998-05-25 02:09 G	11216778.45	11216778.59	11216778.73	0.0088	0.0020
Mercury	25998-08-21 03:36 G	11216866.52	11216866.65	11216866.80	0.0088	0.0014
Mercury	25998-11-17 05:17 G	11216954.58	11216954.72	11216954.87	0.0088	0.0006
Mercury	25999-02-13 06:57 G	11217042.65	11217042.79	11217042.94	0.0088	0.0003
Mercury	25999-05-12 08:38 G	11217130.72	11217130.86	11217131.01	0.0088	0.0009
Mercury	25999-08-08 10:19 G	11217218.79	11217218.93	11217219.07	0.0088	0.0017
Mercury	25999-11-04 12:00 G	11217306.86	11217307.00	11217307.14	0.0088	0.0024
Mercury	26000-01-31 13:41 G	11217394.94	11217395.07	11217395.21	0.0088	0.0031
Mercury	26000-04-28 15:07 G	11217483.01	11217483.13	11217483.27	0.0088	0.0039
Mercury	26000-07-25 17:02 G	11217571.09	11217571.21	11217571.34	0.0088	0.0046
Mercury	26000-10-21 18:29 G	11217659.17	11217659.27	11217659.40	0.0088	0.0054

## 27TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 27th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT							
	TIME							
Mercury	26001-01-17 20:24	G	11217747.25	11217747.35	11217747.46	0.0088	0.0061	
Mercury	26001-04-15 21:50	G	11217835.34	11217835.41	11217835.52	0.0088	0.0069	
Mercury	26001-07-12 23:45	G	11217923.43	11217923.49	11217923.57	0.0088	0.0077	
Mercury	26001-10-09 01:26	G	11218011.53	11218011.56	11218011.61	0.0088	0.0084	
Earth	26023-04-11 03:21	G	11225865.61	11225865.64	11225865.71	0.0088	0.0086	
Earth	26024-04-12 13:55	G	11226232.98	11226233.08	11226233.20	0.0088	0.0079	
Moon	26024-04-12 14:24	G	11226232.99	11226233.10	11226233.23	0.0088	0.0076	*
Moon	26025-04-14 22:48	G	11226600.32	11226600.45	11226600.59	0.0088	0.0075	
Earth	26025-04-15 00:00	G	11226600.38	11226600.50	11226600.67	0.0088	0.0073	*
Earth	26026-04-17 10:33	G	11226967.79	11226967.94	11226968.13	0.0088	0.0066	
Moon	26026-04-17 12:57	G	11226967.88	11226968.04	11226968.23	0.0088	0.0062	*
Moon	26027-04-19 17:45	G	11227335.06	11227335.24	11227335.43	0.0088	0.0062	
Earth	26027-04-19 20:53	G	11227335.20	11227335.37	11227335.58	0.0088	0.0059	*
Earth	26028-04-21 07:26	G	11227702.62	11227702.81	11227703.03	0.0088	0.0052	
Moon	26028-04-21 11:02	G	11227702.76	11227702.96	11227703.18	0.0088	0.0048	*
Moon	26029-04-23 14:24	G	11228069.91	11228070.10	11228070.33	0.0088	0.0049	
Earth	26029-04-23 18:00	G	11228070.05	11228070.25	11228070.49	0.0088	0.0045	*
Earth	26030-04-26 04:19	G	11228437.46	11228437.68	11228437.93	0.0088	0.0038	
Moon	26030-04-26 07:12	G	11228437.57	11228437.80	11228438.06	0.0088	0.0034	*
Moon	26031-04-28 13:12	G	11228804.83	11228805.05	11228805.29	0.0088	0.0034	
Earth	26031-04-28 15:07	G	11228804.89	11228805.13	11228805.37	0.0088	0.0030	*
Earth	26032-04-30 01:12	G	11229172.31	11229172.55	11229172.81	0.0088	0.0023	
Moon	26032-04-30 02:09	G	11229172.34	11229172.59	11229172.86	0.0088	0.0019	*
Earth	26033-05-02 11:31	G	11229539.74	11229539.98	11229540.25	0.0088	0.0016	
Moon	26033-05-02 12:43	G	11229539.79	11229540.03	11229540.27	0.0088	0.0019	*
Mars	26033-06-06 01:12	G	11229574.37	11229574.55	11229574.79	0.0088	0.0070	
Moon	26034-05-04 20:09	G	11229907.08	11229907.34	11229907.61	0.0088	0.0005	

Earth	26034-05-04 22:19 G	11229907.17	11229907.43	11229907.68	0.0088	0.0008	*
Mars	26035-05-03 14:53 G	11230270.77	11230271.12	11230271.47	0.0088	0.0009	
Earth	26035-05-07 08:24 G	11230274.59	11230274.85	11230275.11	0.0088	0.0001	
Moon	26035-05-07 11:02 G	11230274.71	11230274.96	11230275.21	0.0088	0.0005	*
Moon	26036-05-08 15:21 G	11230641.88	11230642.14	11230642.39	0.0088	0.0010	
Earth	26036-05-08 18:57 G	11230642.03	11230642.29	11230642.55	0.0088	0.0006	*
Earth	26037-05-11 05:17 G	11231009.47	11231009.72	11231009.98	0.0088	0.0014	
Moon	26037-05-11 08:38 G	11231009.61	11231009.86	11231010.12	0.0088	0.0010	*
Moon	26038-05-13 12:00 G	11231376.78	11231377.00	11231377.26	0.0088	0.0026	
Earth	26038-05-13 15:36 G	11231376.91	11231377.15	11231377.41	0.0088	0.0021	*
Earth	26039-05-16 02:24 G	11231744.36	11231744.60	11231744.84	0.0088	0.0028	
Moon	26039-05-16 04:48 G	11231744.45	11231744.70	11231744.95	0.0088	0.0024	*
Moon	26040-05-17 11:17 G	11232111.76	11232111.97	11232112.21	0.0088	0.0040	
Earth	26040-05-17 12:29 G	11232111.81	11232112.02	11232112.28	0.0088	0.0036	*
Earth	26041-05-19 23:17 G	11232479.26	11232479.47	11232479.71	0.0088	0.0043	
Moon	26041-05-19 23:45 G	11232479.27	11232479.49	11232479.75	0.0088	0.0039	*
Earth	26042-05-22 10:05 G	11232846.72	11232846.92	11232847.14	0.0088	0.0050	
Moon	26042-05-22 11:31 G	11232846.79	11232846.98	11232847.18	0.0088	0.0054	*
Moon	26043-05-24 18:29 G	11233214.07	11233214.27	11233214.49	0.0088	0.0053	
Earth	26043-05-24 20:38 G	11233214.18	11233214.36	11233214.57	0.0088	0.0057	*
Earth	26044-05-26 07:12 G	11233581.64	11233581.80	11233581.99	0.0088	0.0064	
Moon	26044-05-26 09:50 G	11233581.78	11233581.91	11233582.09	0.0088	0.0069	*
Moon	26045-05-28 14:09 G	11233948.94	11233949.09	11233949.28	0.0088	0.0067	
Earth	26045-05-28 18:00 G	11233949.12	11233949.25	11233949.41	0.0088	0.0071	*
Earth	26046-05-31 04:19 G	11234316.59	11234316.68	11234316.82	0.0088	0.0078	
Moon	26046-05-31 07:55 G	11234316.75	11234316.83	11234316.93	0.0088	0.0082	*
Moon	26047-06-02 12:14 G	11234683.92	11234684.01	11234684.12	0.0088	0.0080	
Earth	26047-06-02 15:07 G	11234684.09	11234684.13	11234684.22	0.0088	0.0085	*
Venus	26066-08-22 01:55 G	11241704.53	11241704.58	11241704.66	0.0089	0.0085	
Venus	26067-04-04 14:53 G	11241929.99	11241930.12	11241930.29	0.0089	0.0066	

Venus	26067-11-16 04:05 G	11242155.50	11242155.67	11242155.87	0.0089	0.0047
Venus	26068-06-28 17:17 G	11242381.02	11242381.22	11242381.44	0.0089	0.0028
Venus	26069-02-09 06:43 G	11242606.56	11242606.78	11242607.00	0.0089	0.0008
Venus	26069-09-22 19:41 G	11242832.10	11242832.32	11242832.54	0.0089	0.0011
Venus	26070-05-06 08:38 G	11243057.66	11243057.86	11243058.08	0.0089	0.0031
Venus	26070-12-17 21:36 G	11243283.23	11243283.40	11243283.60	0.0089	0.0050
Venus	26071-07-31 10:33 G	11243508.82	11243508.94	11243509.09	0.0089	0.0069
Venus	26072-03-12 23:31 G	11243734.47	11243734.48	11243734.53	0.0089	0.0088
Mercury	26079-12-12 20:09 G	11246565.34	11246565.34	11246565.37	0.0089	0.0089
Mercury	26080-03-09 23:17 G	11246653.40	11246653.47	11246653.55	0.0089	0.0079
Mercury	26080-06-06 01:55 G	11246741.49	11246741.58	11246741.70	0.0089	0.0070
Mercury	26080-09-02 04:48 G	11246829.59	11246829.70	11246829.84	0.0089	0.0061
Mercury	26080-11-29 07:55 G	11246917.69	11246917.83	11246917.98	0.0089	0.0051
Mercury	26081-02-25 10:48 G	11247005.80	11247005.95	11247006.11	0.0089	0.0042
Mercury	26081-05-24 13:26 G	11247093.91	11247094.06	11247094.24	0.0089	0.0033
Mercury	26081-08-20 16:33 G	11247182.02	11247182.19	11247182.36	0.0089	0.0024
Mercury	26081-11-16 19:26 G	11247270.14	11247270.31	11247270.48	0.0089	0.0014
Mercury	26082-02-12 22:19 G	11247358.25	11247358.43	11247358.60	0.0089	0.0006
Mercury	26082-05-12 00:57 G	11247446.37	11247446.54	11247446.72	0.0089	0.0004
Mercury	26082-08-08 03:50 G	11247534.49	11247534.66	11247534.83	0.0089	0.0013
Mercury	26082-11-04 06:29 G	11247622.60	11247622.77	11247622.94	0.0089	0.0022
Mercury	26083-01-31 09:07 G	11247710.72	11247710.88	11247711.05	0.0089	0.0031
Mercury	26083-04-29 11:45 G	11247798.85	11247798.99	11247799.15	0.0089	0.0040
Mercury	26083-07-26 14:24 G	11247886.97	11247887.10	11247887.26	0.0089	0.0050
Mercury	26083-10-22 17:02 G	11247975.10	11247975.21	11247975.36	0.0089	0.0059
Mercury	26084-01-18 19:41 G	11248063.23	11248063.32	11248063.45	0.0089	0.0068
Mercury	26084-04-15 22:19 G	11248151.36	11248151.43	11248151.54	0.0089	0.0076
Mercury	26084-07-13 01:26 G	11248239.51	11248239.56	11248239.61	0.0089	0.0085
Earth	26105-10-11 21:50 G	11255999.40	11255999.41	11255999.48	0.0090	0.0089
Moon	26105-10-11 23:17 G	11255999.43	11255999.47	11255999.52	0.0090	0.0088 *

Moon	26106-10-14 09:36 G	11256366.81	11256366.90	11256367.04	0.0090	0.0081
Earth	26106-10-14 11:31 G	11256366.88	11256366.98	11256367.10	0.0090	0.0081 *
Earth	26107-10-17 00:29 G	11256734.39	11256734.52	11256734.68	0.0090	0.0074
Moon	26107-10-17 03:36 G	11256734.52	11256734.65	11256734.80	0.0090	0.0074 *
Moon	26108-10-18 09:50 G	11257101.76	11257101.91	11257102.11	0.0090	0.0067
Earth	26108-10-18 13:12 G	11257101.91	11257102.05	11257102.25	0.0090	0.0067 *
Earth	26109-10-21 02:24 G	11257469.42	11257469.60	11257469.81	0.0090	0.0059
Moon	26109-10-21 05:45 G	11257469.58	11257469.74	11257469.96	0.0090	0.0061 *
Moon	26110-10-23 12:00 G	11257836.81	11257837.00	11257837.23	0.0090	0.0051
Earth	26110-10-23 15:21 G	11257836.95	11257837.14	11257837.37	0.0090	0.0052 *
Earth	26111-10-26 04:19 G	11258204.47	11258204.68	11258204.93	0.0090	0.0044
Moon	26111-10-26 07:12 G	11258204.59	11258204.80	11258205.04	0.0090	0.0045 *
Moon	26112-10-27 15:36 G	11258571.92	11258572.15	11258572.38	0.0090	0.0034
Earth	26112-10-27 17:31 G	11258572.01	11258572.23	11258572.48	0.0090	0.0036 *
Earth	26113-10-30 06:29 G	11258939.53	11258939.77	11258940.03	0.0090	0.0028
Moon	26113-10-30 07:26 G	11258939.56	11258939.81	11258940.06	0.0090	0.0029 *
Earth	26114-11-01 19:41 G	11259307.07	11259307.32	11259307.58	0.0090	0.0020
Moon	26114-11-01 20:09 G	11259307.10	11259307.34	11259307.59	0.0090	0.0019 *
Mars	26115-04-05 04:19 G	11259461.49	11259461.68	11259461.92	0.0090	0.0060
Moon	26115-11-04 07:41 G	11259674.55	11259674.82	11259675.08	0.0090	0.0014
Earth	26115-11-04 08:53 G	11259674.62	11259674.87	11259675.13	0.0090	0.0012 *
Earth	26116-11-05 21:50 G	11260042.15	11260042.41	11260042.67	0.0090	0.0004
Moon	26116-11-06 00:29 G	11260042.27	11260042.52	11260042.78	0.0090	0.0003 *
Mars	26117-02-26 16:19 G	11260154.90	11260155.18	11260155.47	0.0090	0.0008
Moon	26117-11-08 07:41 G	11260409.56	11260409.82	11260410.09	0.0090	0.0003
Earth	26117-11-08 11:02 G	11260409.70	11260409.96	11260410.22	0.0090	0.0004 *
Earth	26118-11-11 00:00 G	11260777.25	11260777.50	11260777.76	0.0089	0.0012
Moon	26118-11-11 03:36 G	11260777.40	11260777.65	11260777.90	0.0089	0.0015 *
Mars	26119-01-21 03:36 G	11260848.51	11260848.65	11260848.83	0.0089	0.0075
Moon	26119-11-13 09:21 G	11261144.65	11261144.89	11261145.15	0.0089	0.0018

Earth	26119-11-13 12:57 G	11261144.79	11261145.04	11261145.30	0.0089	0.0020	*
Earth	26120-11-15 01:41 G	11261512.33	11261512.57	11261512.83	0.0089	0.0028	
Moon	26120-11-15 04:33 G	11261512.46	11261512.69	11261512.95	0.0089	0.0030	*
Moon	26121-11-17 12:00 G	11261879.78	11261880.00	11261880.25	0.0089	0.0033	
Earth	26121-11-17 14:24 G	11261879.88	11261880.10	11261880.35	0.0089	0.0036	*
Earth	26122-11-20 03:07 G	11262247.42	11262247.63	11262247.87	0.0089	0.0043	
Moon	26122-11-20 04:19 G	11262247.46	11262247.68	11262247.92	0.0089	0.0046	*
Earth	26123-11-22 16:05 G	11262614.97	11262615.17	11262615.39	0.0089	0.0051	
Moon	26123-11-22 16:05 G	11262614.98	11262615.17	11262615.39	0.0089	0.0048	*
Moon	26124-11-24 03:21 G	11262982.47	11262982.64	11262982.86	0.0089	0.0062	
Earth	26124-11-24 04:33 G	11262982.51	11262982.69	11262982.90	0.0089	0.0058	*
Earth	26125-11-26 17:31 G	11263350.06	11263350.23	11263350.41	0.0089	0.0066	
Moon	26125-11-26 20:09 G	11263350.17	11263350.34	11263350.52	0.0089	0.0063	*
Moon	26126-11-29 02:38 G	11263717.51	11263717.61	11263717.78	0.0089	0.0077	
Earth	26126-11-29 06:00 G	11263717.63	11263717.75	11263717.92	0.0089	0.0073	*
Earth	26127-12-01 18:43 G	11264085.19	11264085.28	11264085.41	0.0089	0.0081	
Moon	26127-12-01 22:19 G	11264085.31	11264085.43	11264085.57	0.0089	0.0077	*
Earth	26128-12-03 07:26 G	11264452.78	11264452.81	11264452.88	0.0089	0.0088	
Venus	26148-02-26 15:21 G	11271477.04	11271477.14	11271477.27	0.0089	0.0075	
Venus	26148-10-09 04:19 G	11271702.52	11271702.68	11271702.86	0.0089	0.0056	
Venus	26149-05-22 17:17 G	11271928.03	11271928.22	11271928.43	0.0089	0.0037	
Venus	26150-01-03 06:14 G	11272153.55	11272153.76	11272153.98	0.0089	0.0018	
Venus	26150-08-16 19:12 G	11272379.08	11272379.30	11272379.52	0.0089	0.0001	
Venus	26151-03-30 07:55 G	11272604.62	11272604.83	11272605.05	0.0089	0.0021	
Venus	26151-11-10 20:53 G	11272830.18	11272830.37	11272830.58	0.0089	0.0040	
Venus	26152-06-23 09:36 G	11273055.75	11273055.90	11273056.08	0.0089	0.0059	
Venus	26153-02-03 22:19 G	11273281.35	11273281.43	11273281.56	0.0089	0.0078	
Mercury	26160-09-22 10:05 G	11276068.91	11276068.92	11276068.93	0.0088	0.0088	
Mercury	26160-12-19 11:31 G	11276156.93	11276156.98	11276157.04	0.0088	0.0081	
Mercury	26161-03-17 13:12 G	11276244.98	11276245.05	11276245.13	0.0088	0.0074	

Mercury	26161-06-13 14:38 G	11276333.03	11276333.11	11276333.21	0.0088	0.0067
Mercury	26161-09-09 16:19 G	11276421.08	11276421.18	11276421.29	0.0088	0.0059
Mercury	26161-12-06 17:45 G	11276509.14	11276509.24	11276509.36	0.0088	0.0052
Mercury	26162-03-04 19:26 G	11276597.19	11276597.31	11276597.44	0.0088	0.0045
Mercury	26162-05-31 20:53 G	11276685.25	11276685.37	11276685.51	0.0088	0.0039
Mercury	26162-08-27 22:48 G	11276773.32	11276773.45	11276773.58	0.0088	0.0031
Mercury	26162-11-24 00:14 G	11276861.38	11276861.51	11276861.65	0.0088	0.0024
Mercury	26163-02-20 01:55 G	11276949.44	11276949.58	11276949.72	0.0088	0.0016
Mercury	26163-05-19 03:36 G	11277037.51	11277037.65	11277037.80	0.0088	0.0009
Mercury	26163-08-15 05:17 G	11277125.58	11277125.72	11277125.86	0.0088	0.0001
Mercury	26163-11-11 06:57 G	11277213.64	11277213.79	11277213.93	0.0088	0.0006
Mercury	26164-02-07 08:38 G	11277301.71	11277301.86	11277302.00	0.0088	0.0013
Mercury	26164-05-05 10:05 G	11277389.78	11277389.92	11277390.07	0.0088	0.0021
Mercury	26164-08-01 11:45 G	11277477.86	11277477.99	11277478.13	0.0088	0.0028
Mercury	26164-10-28 13:26 G	11277565.93	11277566.06	11277566.20	0.0088	0.0036
Mercury	26165-01-24 15:07 G	11277654.01	11277654.13	11277654.26	0.0088	0.0043
Mercury	26165-04-22 16:48 G	11277742.09	11277742.20	11277742.32	0.0088	0.0051
Mercury	26165-07-19 18:14 G	11277830.17	11277830.26	11277830.38	0.0088	0.0059
Mercury	26165-10-15 20:09 G	11277918.25	11277918.34	11277918.44	0.0088	0.0066
Mercury	26166-01-11 21:50 G	11278006.34	11278006.41	11278006.50	0.0088	0.0073
Mercury	26166-04-09 23:45 G	11278094.43	11278094.49	11278094.55	0.0088	0.0080
Mercury	26166-07-07 01:26 G	11278182.56	11278182.56	11278182.56	0.0088	0.0088
Moon	26188-04-13 00:00 G	11286133.40	11286133.50	11286133.61	0.0088	0.0080
Earth	26188-04-13 01:55 G	11286133.53	11286133.58	11286133.67	0.0088	0.0084 *
Earth	26189-04-15 12:14 G	11286500.91	11286501.01	11286501.15	0.0088	0.0077
Moon	26189-04-15 15:07 G	11286501.06	11286501.13	11286501.25	0.0088	0.0081 *
Moon	26190-04-17 19:26 G	11286868.15	11286868.31	11286868.48	0.0088	0.0067
Earth	26190-04-17 22:48 G	11286868.31	11286868.45	11286868.61	0.0088	0.0070 *
Earth	26191-04-20 08:53 G	11287235.71	11287235.87	11287236.06	0.0088	0.0063
Moon	26191-04-20 12:14 G	11287235.87	11287236.01	11287236.21	0.0088	0.0067 *



Moon	26192-04-21 16:19 G	11287603.00	11287603.18	11287603.40	0.0088	0.0053
Earth	26192-04-21 19:26 G	11287603.13	11287603.31	11287603.52	0.0088	0.0056 *
Earth	26193-04-24 05:45 G	11287970.54	11287970.74	11287970.97	0.0088	0.0049
Moon	26193-04-24 08:24 G	11287970.65	11287970.85	11287971.08	0.0088	0.0051 *
Moon	26194-04-26 14:53 G	11288337.92	11288338.12	11288338.36	0.0088	0.0039
Earth	26194-04-26 16:05 G	11288337.97	11288338.17	11288338.42	0.0088	0.0042 *
Moon	26195-04-29 02:24 G	11288705.37	11288705.60	11288705.86	0.0088	0.0037
Earth	26195-04-29 02:53 G	11288705.39	11288705.62	11288705.86	0.0088	0.0034 *
Earth	26196-04-30 13:12 G	11289072.82	11289073.05	11289073.31	0.0088	0.0027
Moon	26196-04-30 14:24 G	11289072.86	11289073.10	11289073.34	0.0088	0.0024 *
Moon	26197-05-02 21:21 G	11289440.14	11289440.39	11289440.65	0.0088	0.0022
Earth	26197-05-03 00:00 G	11289440.25	11289440.50	11289440.75	0.0088	0.0019 *
Earth	26198-05-05 10:05 G	11289807.67	11289807.92	11289808.18	0.0088	0.0012
Moon	26198-05-05 13:12 G	11289807.81	11289808.05	11289808.31	0.0088	0.0009 *
Mars	26198-12-16 01:12 G	11290032.21	11290032.55	11290032.90	0.0088	0.0016
Moon	26199-05-07 17:02 G	11290174.96	11290175.21	11290175.48	0.0088	0.0007
Earth	26199-05-07 20:38 G	11290175.11	11290175.36	11290175.62	0.0088	0.0004 *
Earth	26200-05-10 06:57 G	11290542.54	11290542.79	11290543.05	0.0088	0.0004
Moon	26200-05-10 10:48 G	11290542.69	11290542.95	11290543.21	0.0088	0.0006 *
Mars	26200-11-12 14:09 G	11290728.87	11290729.09	11290729.36	0.0088	0.0063
Moon	26201-05-12 14:53 G	11290909.87	11290910.12	11290910.37	0.0088	0.0008
Earth	26201-05-12 17:31 G	11290909.98	11290910.23	11290910.49	0.0088	0.0011 *
Earth	26202-05-15 03:36 G	11291277.41	11291277.65	11291277.92	0.0088	0.0019
Moon	26202-05-15 06:29 G	11291277.51	11291277.77	11291278.02	0.0088	0.0020 *
Moon	26203-05-17 13:12 G	11291644.83	11291645.05	11291645.31	0.0088	0.0024
Earth	26203-05-17 14:09 G	11291644.86	11291645.09	11291645.35	0.0088	0.0026 *
Moon	26204-05-19 00:14 G	11292012.27	11292012.51	11292012.76	0.0088	0.0036
Earth	26204-05-19 00:43 G	11292012.31	11292012.53	11292012.78	0.0088	0.0034 *
Earth	26205-05-21 11:17 G	11292379.76	11292379.97	11292380.22	0.0088	0.0041
Moon	26205-05-21 12:43 G	11292379.82	11292380.03	11292380.26	0.0088	0.0039 *

Moon	26206-05-23 18:57 G	11292747.10	11292747.29	11292747.53	0.0088	0.0051
Earth	26206-05-23 22:05 G	11292747.22	11292747.42	11292747.65	0.0088	0.0048 *
Earth	26207-05-26 08:24 G	11293114.68	11293114.85	11293115.07	0.0088	0.0056
Moon	26207-05-26 12:00 G	11293114.81	11293115.00	11293115.22	0.0088	0.0053 *
Moon	26208-05-27 15:50 G	11293482.01	11293482.16	11293482.35	0.0088	0.0065
Earth	26208-05-27 19:26 G	11293482.15	11293482.31	11293482.51	0.0088	0.0063 *
Earth	26209-05-30 06:14 G	11293849.62	11293849.76	11293849.92	0.0088	0.0070
Moon	26209-05-30 09:36 G	11293849.75	11293849.90	11293850.08	0.0088	0.0068 *
Moon	26210-06-01 14:53 G	11294217.01	11294217.12	11294217.22	0.0088	0.0080
Earth	26210-06-01 17:02 G	11294217.10	11294217.21	11294217.34	0.0088	0.0077 *
Earth	26211-06-04 03:36 G	11294584.59	11294584.65	11294584.73	0.0088	0.0084
Moon	26211-06-04 05:31 G	11294584.67	11294584.73	11294584.84	0.0088	0.0083 *
Venus	26231-07-09 02:53 G	11301924.49	11301924.62	11301924.75	0.0089	0.0072
Venus	26232-02-19 15:50 G	11302149.99	11302150.16	11302150.34	0.0089	0.0053
Venus	26232-10-02 04:48 G	11302375.51	11302375.70	11302375.91	0.0089	0.0034
Venus	26233-05-15 18:14 G	11302601.05	11302601.26	11302601.48	0.0089	0.0015
Venus	26233-12-27 07:26 G	11302826.59	11302826.81	11302827.03	0.0089	0.0005
Venus	26234-08-09 20:24 G	11303052.14	11303052.35	11303052.57	0.0089	0.0024
Venus	26235-03-23 09:21 G	11303277.71	11303277.89	11303278.09	0.0089	0.0043
Venus	26235-11-03 22:33 G	11303503.29	11303503.44	11303503.60	0.0089	0.0062
Venus	26236-06-16 11:17 G	11303728.91	11303728.97	11303729.08	0.0089	0.0082
Saturn	26237-08-15 00:14 G	11304152.87	11304153.51	11304154.16	0.0089	0.0018
Mercury	26244-09-09 19:55 G	11306736.27	11306736.33	11306736.39	0.0089	0.0083
Mercury	26244-12-06 22:33 G	11306824.36	11306824.44	11306824.55	0.0089	0.0074
Mercury	26245-03-05 01:26 G	11306912.46	11306912.56	11306912.70	0.0089	0.0065
Mercury	26245-06-01 04:33 G	11307000.56	11307000.69	11307000.83	0.0089	0.0055
Mercury	26245-08-28 07:12 G	11307088.67	11307088.80	11307088.97	0.0089	0.0047
Mercury	26245-11-24 10:05 G	11307176.78	11307176.92	11307177.10	0.0089	0.0037
Mercury	26246-02-20 13:12 G	11307264.89	11307265.05	11307265.22	0.0089	0.0027
Mercury	26246-05-19 16:05 G	11307353.00	11307353.17	11307353.34	0.0089	0.0018

Mercury	26246-08-15 18:57 G	11307441.12	11307441.29	11307441.46	0.0089	0.0009
Mercury	26246-11-11 21:50 G	11307529.23	11307529.41	11307529.58	0.0089	0.0002
Mercury	26247-02-08 00:29 G	11307617.35	11307617.52	11307617.70	0.0089	0.0010
Mercury	26247-05-07 03:07 G	11307705.47	11307705.63	11307705.81	0.0089	0.0019
Mercury	26247-08-03 05:45 G	11307793.59	11307793.74	11307793.92	0.0089	0.0029
Mercury	26247-10-30 08:38 G	11307881.71	11307881.86	11307882.03	0.0089	0.0037
Mercury	26248-01-26 11:17 G	11307969.84	11307969.97	11307970.13	0.0089	0.0046
Mercury	26248-04-23 13:55 G	11308057.96	11308058.08	11308058.23	0.0089	0.0055
Mercury	26248-07-20 16:33 G	11308146.09	11308146.19	11308146.33	0.0089	0.0064
Mercury	26248-10-16 19:41 G	11308234.22	11308234.32	11308234.42	0.0089	0.0073
Mercury	26249-01-12 22:19 G	11308322.37	11308322.43	11308322.50	0.0089	0.0081
Earth	26270-10-14 20:38 G	11316267.32	11316267.36	11316267.46	0.0090	0.0087
Moon	26270-10-15 00:00 G	11316267.41	11316267.50	11316267.61	0.0090	0.0082 *
Moon	26271-10-17 06:14 G	11316634.69	11316634.76	11316634.88	0.0090	0.0084
Earth	26271-10-17 10:05 G	11316634.82	11316634.92	11316635.06	0.0090	0.0079 *
Earth	26272-10-18 23:02 G	11317002.33	11317002.46	11317002.64	0.0090	0.0072
Moon	26272-10-19 02:38 G	11317002.46	11317002.61	11317002.80	0.0090	0.0067 *
Moon	26273-10-21 09:36 G	11317369.74	11317369.90	11317370.07	0.0090	0.0068
Earth	26273-10-21 12:29 G	11317369.86	11317370.02	11317370.22	0.0090	0.0064 *
Earth	26274-10-24 01:41 G	11317737.38	11317737.57	11317737.78	0.0090	0.0056
Moon	26274-10-24 04:19 G	11317737.47	11317737.68	11317737.90	0.0090	0.0051 *
Moon	26275-10-26 13:26 G	11318104.88	11318105.06	11318105.29	0.0090	0.0053
Earth	26275-10-26 14:38 G	11318104.91	11318105.11	11318105.34	0.0090	0.0048 *
Earth	26276-10-28 03:50 G	11318472.43	11318472.66	11318472.89	0.0090	0.0040
Moon	26276-10-28 04:05 G	11318472.43	11318472.67	11318472.93	0.0090	0.0036 *
Earth	26277-10-30 16:48 G	11318839.96	11318840.20	11318840.45	0.0090	0.0032
Moon	26277-10-30 17:45 G	11318840.02	11318840.24	11318840.48	0.0090	0.0037 *
Moon	26278-11-02 03:21 G	11319207.39	11319207.64	11319207.91	0.0090	0.0020
Earth	26278-11-02 06:00 G	11319207.50	11319207.75	11319208.00	0.0090	0.0024 *
Mars	26278-11-20 00:14 G	11319225.42	11319225.51	11319225.66	0.0090	0.0082

Earth	26279-11-04 18:43 G	11319575.03	11319575.28	11319575.54	0.0090	0.0016
Moon	26279-11-04 21:07 G	11319575.15	11319575.38	11319575.64	0.0090	0.0021 *
Mars	26280-10-13 12:14 G	11319918.74	11319919.01	11319919.30	0.0090	0.0014
Moon	26280-11-06 04:05 G	11319942.41	11319942.67	11319942.93	0.0090	0.0003
Earth	26280-11-06 07:55 G	11319942.57	11319942.83	11319943.09	0.0090	0.0008 *
Earth	26281-11-08 20:53 G	11320310.11	11320310.37	11320310.63	0.0090	0.0001
Moon	26281-11-09 00:14 G	11320310.25	11320310.51	11320310.77	0.0090	0.0004 *
Mars	26282-09-06 23:02 G	11320612.25	11320612.46	11320612.71	0.0089	0.0053
Moon	26282-11-11 06:29 G	11320677.52	11320677.77	11320678.03	0.0089	0.0013
Earth	26282-11-11 09:50 G	11320677.66	11320677.91	11320678.17	0.0089	0.0009 *
Earth	26283-11-13 23:02 G	11321045.20	11321045.46	11321045.71	0.0089	0.0017
Moon	26283-11-14 01:41 G	11321045.31	11321045.57	11321045.83	0.0089	0.0012 *
Moon	26284-11-15 10:33 G	11321412.71	11321412.94	11321413.18	0.0089	0.0029
Earth	26284-11-15 12:00 G	11321412.75	11321413.00	11321413.25	0.0089	0.0025 *
Earth	26285-11-18 00:57 G	11321780.30	11321780.54	11321780.78	0.0089	0.0033
Moon	26285-11-18 01:26 G	11321780.32	11321780.56	11321780.83	0.0089	0.0030 *
Earth	26286-11-20 13:41 G	11322147.85	11322148.07	11322148.31	0.0089	0.0041
Moon	26286-11-20 14:09 G	11322147.90	11322148.09	11322148.33	0.0089	0.0046 *
Moon	26287-11-23 00:14 G	11322515.29	11322515.51	11322515.75	0.0089	0.0045
Earth	26287-11-23 02:24 G	11322515.39	11322515.60	11322515.82	0.0089	0.0049 *
Earth	26288-11-24 14:53 G	11322882.94	11322883.12	11322883.34	0.0089	0.0057
Moon	26288-11-24 17:17 G	11322883.06	11322883.22	11322883.43	0.0089	0.0061 *
Moon	26289-11-27 00:00 G	11323250.33	11323250.50	11323250.71	0.0089	0.0061
Earth	26289-11-27 03:36 G	11323250.50	11323250.65	11323250.85	0.0089	0.0065 *
Earth	26290-11-29 16:05 G	11323618.04	11323618.17	11323618.35	0.0089	0.0072
Moon	26290-11-29 19:55 G	11323618.21	11323618.33	11323618.48	0.0089	0.0076 *
Moon	26291-12-02 01:26 G	11323985.45	11323985.56	11323985.71	0.0089	0.0077
Earth	26291-12-02 05:02 G	11323985.61	11323985.71	11323985.84	0.0089	0.0080 *
Earth	26292-12-03 17:45 G	11324353.19	11324353.24	11324353.30	0.0089	0.0087
Venus	26312-06-01 03:36 G	11331471.56	11331471.65	11331471.74	0.0089	0.0081

Venus	26313-01-12 16:33 G	11331697.03	11331697.19	11331697.34	0.0089	0.0062
Venus	26313-08-26 05:17 G	11331922.53	11331922.72	11331922.91	0.0089	0.0043
Venus	26314-04-08 18:14 G	11332148.05	11332148.26	11332148.47	0.0089	0.0024
Venus	26314-11-20 07:12 G	11332373.58	11332373.80	11332374.02	0.0089	0.0005
Venus	26315-07-03 20:09 G	11332599.12	11332599.34	11332599.56	0.0089	0.0014
Venus	26316-02-14 08:53 G	11332824.67	11332824.87	11332825.08	0.0089	0.0033
Venus	26316-09-26 21:36 G	11333050.23	11333050.40	11333050.59	0.0089	0.0052
Venus	26317-05-10 10:33 G	11333275.82	11333275.94	11333276.08	0.0089	0.0071
Mercury	26325-06-21 09:50 G	11336239.88	11336239.91	11336239.96	0.0088	0.0084
Mercury	26325-09-17 11:31 G	11336327.92	11336327.98	11336328.05	0.0088	0.0076
Mercury	26325-12-14 12:57 G	11336415.96	11336416.04	11336416.14	0.0088	0.0070
Mercury	26326-03-12 14:38 G	11336504.02	11336504.11	11336504.21	0.0088	0.0062
Mercury	26326-06-08 16:05 G	11336592.07	11336592.17	11336592.29	0.0088	0.0055
Mercury	26326-09-04 17:45 G	11336680.13	11336680.24	11336680.37	0.0088	0.0048
Mercury	26326-12-01 19:26 G	11336768.19	11336768.31	11336768.44	0.0088	0.0041
Mercury	26327-02-27 21:07 G	11336856.25	11336856.38	11336856.51	0.0088	0.0033
Mercury	26327-05-26 22:33 G	11336944.31	11336944.44	11336944.58	0.0088	0.0026
Mercury	26327-08-23 00:14 G	11337032.37	11337032.51	11337032.65	0.0088	0.0019
Mercury	26327-11-19 01:55 G	11337120.44	11337120.58	11337120.72	0.0088	0.0012
Mercury	26328-02-15 03:36 G	11337208.50	11337208.65	11337208.79	0.0088	0.0004
Mercury	26328-05-13 05:02 G	11337296.57	11337296.71	11337296.86	0.0088	0.0005
Mercury	26328-08-09 06:43 G	11337384.64	11337384.78	11337384.93	0.0088	0.0011
Mercury	26328-11-05 08:24 G	11337472.71	11337472.85	11337472.99	0.0088	0.0018
Mercury	26329-02-01 10:05 G	11337560.78	11337560.92	11337561.06	0.0088	0.0025
Mercury	26329-04-30 11:45 G	11337648.86	11337648.99	11337649.13	0.0088	0.0032
Mercury	26329-07-27 13:12 G	11337736.93	11337737.05	11337737.19	0.0088	0.0040
Mercury	26329-10-23 14:53 G	11337825.01	11337825.12	11337825.25	0.0088	0.0048
Mercury	26330-01-19 16:33 G	11337913.09	11337913.19	11337913.31	0.0088	0.0055
Mercury	26330-04-17 18:14 G	11338001.17	11338001.26	11338001.37	0.0088	0.0063
Mercury	26330-07-14 19:55 G	11338089.25	11338089.33	11338089.43	0.0088	0.0070

Mercury	26330-10-10 21:36 G	11338177.34	11338177.40	11338177.48	0.0088	0.0078
Mercury	26331-01-06 23:17 G	11338265.45	11338265.47	11338265.52	0.0088	0.0085
Jupiter	26347-04-28 09:36 G	11344220.65	11344220.90	11344221.21	0.0088	0.0076
Moon	26353-04-16 21:07 G	11346401.30	11346401.38	11346401.51	0.0088	0.0080
Earth	26353-04-17 00:57 G	11346401.46	11346401.54	11346401.64	0.0088	0.0082 *
Earth	26354-04-19 11:02 G	11346768.85	11346768.96	11346769.11	0.0088	0.0075
Moon	26354-04-19 14:24 G	11346769.01	11346769.10	11346769.24	0.0088	0.0078 *
Moon	26355-04-21 18:14 G	11347136.12	11347136.26	11347136.45	0.0088	0.0065
Earth	26355-04-21 21:21 G	11347136.25	11347136.39	11347136.57	0.0088	0.0068 *
Earth	26356-04-23 08:09 G	11347503.65	11347503.84	11347504.03	0.0088	0.0060
Moon	26356-04-23 09:21 G	11347503.73	11347503.89	11347504.09	0.0088	0.0063 *
Moon	26357-04-25 17:45 G	11347871.03	11347871.24	11347871.44	0.0088	0.0050
Earth	26357-04-25 18:14 G	11347871.07	11347871.26	11347871.48	0.0088	0.0053 *
Moon	26358-04-28 03:50 G	11348238.46	11348238.66	11348238.90	0.0088	0.0049
Earth	26358-04-28 04:19 G	11348238.48	11348238.68	11348238.92	0.0088	0.0046 *
Earth	26359-04-30 14:53 G	11348605.90	11348606.12	11348606.37	0.0088	0.0038
Moon	26359-04-30 16:48 G	11348605.99	11348606.20	11348606.45	0.0088	0.0036 *
Moon	26360-05-01 23:02 G	11348973.22	11348973.46	11348973.71	0.0088	0.0033
Earth	26360-05-02 01:26 G	11348973.34	11348973.56	11348973.82	0.0088	0.0031 *
Earth	26361-05-04 12:00 G	11349340.76	11349341.00	11349341.25	0.0088	0.0023
Moon	26361-05-04 15:36 G	11349340.90	11349341.15	11349341.40	0.0088	0.0019 *
Moon	26362-05-06 18:57 G	11349708.05	11349708.29	11349708.55	0.0088	0.0018
Earth	26362-05-06 22:33 G	11349708.19	11349708.44	11349708.70	0.0088	0.0015 *
Mars	26362-07-31 11:31 G	11349793.70	11349793.98	11349794.31	0.0088	0.0042
Earth	26363-05-09 08:53 G	11350075.62	11350075.87	11350076.13	0.0088	0.0008
Moon	26363-05-09 12:14 G	11350075.76	11350076.01	11350076.28	0.0088	0.0004 *
Moon	26364-05-10 16:48 G	11350442.95	11350443.20	11350443.45	0.0088	0.0003
Earth	26364-05-10 19:26 G	11350443.05	11350443.31	11350443.57	0.0088	0.0001 *
Mars	26364-06-27 00:57 G	11350490.25	11350490.54	11350490.89	0.0088	0.0038
Earth	26365-05-13 05:45 G	11350810.49	11350810.74	11350811.00	0.0088	0.0008

Moon	26365-05-13 07:12 G	11350810.54	11350810.80	11350811.06	0.0088	0.0011	*
Moon	26366-05-15 15:36 G	11351177.91	11351178.15	11351178.40	0.0088	0.0013	
Earth	26366-05-15 16:05 G	11351177.92	11351178.17	11351178.43	0.0088	0.0016	*
Moon	26367-05-18 01:26 G	11351545.32	11351545.56	11351545.83	0.0088	0.0027	
Earth	26367-05-18 02:24 G	11351545.36	11351545.60	11351545.86	0.0088	0.0024	*
Earth	26368-05-19 12:57 G	11351912.81	11351913.04	11351913.29	0.0088	0.0031	
Moon	26368-05-19 15:21 G	11351912.91	11351913.14	11351913.38	0.0088	0.0028	*
Moon	26369-05-21 20:24 G	11352280.13	11352280.35	11352280.59	0.0088	0.0042	
Earth	26369-05-21 23:17 G	11352280.25	11352280.47	11352280.71	0.0088	0.0039	*
Earth	26370-05-24 10:05 G	11352647.70	11352647.92	11352648.14	0.0088	0.0046	
Moon	26370-05-24 13:12 G	11352647.85	11352648.05	11352648.29	0.0088	0.0043	*
Moon	26371-05-26 17:02 G	11353015.03	11353015.21	11353015.42	0.0088	0.0057	
Earth	26371-05-26 20:24 G	11353015.16	11353015.35	11353015.57	0.0088	0.0054	*
Earth	26372-05-28 07:26 G	11353382.63	11353382.81	11353382.99	0.0088	0.0061	
Moon	26372-05-28 10:05 G	11353382.75	11353382.92	11353383.14	0.0088	0.0058	*
Moon	26373-05-30 15:07 G	11353750.02	11353750.13	11353750.30	0.0088	0.0073	
Earth	26373-05-30 17:45 G	11353750.10	11353750.24	11353750.42	0.0088	0.0069	*
Earth	26374-06-02 04:33 G	11354117.58	11354117.69	11354117.83	0.0088	0.0076	
Moon	26374-06-02 05:02 G	11354117.60	11354117.71	11354117.89	0.0088	0.0073	*
Earth	26375-06-04 15:21 G	11354485.08	11354485.14	11354485.24	0.0088	0.0084	
Moon	26375-06-04 15:07 G	11354485.12	11354485.13	11354485.18	0.0088	0.0087	*
Moon	26376-06-06 00:57 G	11354852.51	11354852.54	11354852.60	0.0088	0.0087	
Venus	26395-10-11 14:09 G	11361919.01	11361919.09	11361919.21	0.0089	0.0079	
Venus	26396-05-24 03:21 G	11362144.50	11362144.64	11362144.82	0.0089	0.0060	
Venus	26397-01-04 16:33 G	11362370.01	11362370.19	11362370.40	0.0089	0.0041	
Venus	26397-08-18 06:00 G	11362595.53	11362595.75	11362595.96	0.0089	0.0021	
Venus	26398-03-31 18:57 G	11362821.07	11362821.29	11362821.52	0.0089	0.0003	
Venus	26398-11-12 07:55 G	11363046.63	11363046.83	11363047.06	0.0089	0.0018	
Venus	26399-06-25 21:07 G	11363272.19	11363272.38	11363272.59	0.0089	0.0037	
Venus	26400-02-06 10:05 G	11363497.76	11363497.92	11363498.11	0.0089	0.0056	

Venus	26400-09-18 23:02 G	11363723.36	11363723.46	11363723.60	0.0089	0.0075
Mercury	26409-03-11 15:50 G	11366819.16	11366819.16	11366819.21	0.0089	0.0088
Mercury	26409-06-07 19:12 G	11366907.22	11366907.30	11366907.39	0.0089	0.0078
Mercury	26409-09-03 21:50 G	11366995.32	11366995.41	11366995.54	0.0089	0.0069
Mercury	26409-12-01 01:12 G	11367083.42	11367083.55	11367083.68	0.0089	0.0059
Mercury	26410-02-27 03:50 G	11367171.52	11367171.66	11367171.81	0.0089	0.0050
Mercury	26410-05-26 06:43 G	11367259.63	11367259.78	11367259.95	0.0089	0.0041
Mercury	26410-08-22 09:50 G	11367347.74	11367347.91	11367348.07	0.0089	0.0031
Mercury	26410-11-18 12:29 G	11367435.86	11367436.02	11367436.20	0.0089	0.0022
Mercury	26411-02-14 15:21 G	11367523.97	11367524.14	11367524.32	0.0089	0.0013
Mercury	26411-05-13 18:14 G	11367612.09	11367612.26	11367612.44	0.0089	0.0004
Mercury	26411-08-09 21:07 G	11367700.21	11367700.38	11367700.56	0.0089	0.0006
Mercury	26411-11-05 23:45 G	11367788.33	11367788.49	11367788.67	0.0089	0.0015
Mercury	26412-02-02 02:38 G	11367876.45	11367876.61	11367876.78	0.0089	0.0024
Mercury	26412-04-30 05:17 G	11367964.57	11367964.72	11367964.89	0.0089	0.0033
Mercury	26412-07-27 08:09 G	11368052.69	11368052.84	11368053.00	0.0089	0.0042
Mercury	26412-10-23 10:48 G	11368140.82	11368140.95	11368141.10	0.0089	0.0051
Mercury	26413-01-19 13:26 G	11368228.95	11368229.06	11368229.20	0.0089	0.0060
Mercury	26413-04-17 16:05 G	11368317.08	11368317.17	11368317.29	0.0089	0.0070
Mercury	26413-07-14 18:43 G	11368405.22	11368405.28	11368405.38	0.0089	0.0079
Mercury	26413-10-10 21:21 G	11368493.38	11368493.39	11368493.45	0.0089	0.0088
Earth	26435-10-17 19:41 G	11376535.25	11376535.32	11376535.43	0.0090	0.0084
Moon	26435-10-17 23:02 G	11376535.41	11376535.46	11376535.58	0.0090	0.0085 *
Moon	26436-10-19 06:29 G	11376902.65	11376902.77	11376902.92	0.0090	0.0075
Earth	26436-10-19 08:38 G	11376902.76	11376902.86	11376903.02	0.0090	0.0077 *
Earth	26437-10-21 21:50 G	11377270.27	11377270.41	11377270.60	0.0090	0.0069
Moon	26437-10-21 23:45 G	11377270.35	11377270.49	11377270.69	0.0090	0.0069 *
Moon	26438-10-24 10:19 G	11377637.77	11377637.93	11377638.14	0.0090	0.0061
Earth	26438-10-24 11:02 G	11377637.80	11377637.96	11377638.18	0.0090	0.0061 *
Moon	26439-10-26 23:02 G	11378005.27	11378005.46	11378005.70	0.0090	0.0054



Earth	26439-10-27 00:00 G	11378005.32	11378005.50	11378005.74	0.0090	0.0053	*
Earth	26440-10-28 13:12 G	11378372.84	11378373.05	11378373.29	0.0090	0.0045	
Moon	26440-10-28 14:38 G	11378372.92	11378373.11	11378373.35	0.0090	0.0045	*
Moon	26441-10-31 00:00 G	11378740.26	11378740.50	11378740.74	0.0090	0.0036	
Earth	26441-10-31 02:24 G	11378740.38	11378740.60	11378740.85	0.0090	0.0036	*
Earth	26442-11-02 15:36 G	11379107.90	11379108.15	11379108.40	0.0090	0.0028	
Moon	26442-11-02 18:43 G	11379108.05	11379108.28	11379108.54	0.0090	0.0028	*
Moon	26443-11-05 00:57 G	11379475.30	11379475.54	11379475.80	0.0090	0.0019	
Earth	26443-11-05 04:33 G	11379475.44	11379475.69	11379475.95	0.0090	0.0020	*
Mars	26444-05-30 07:12 G	11379682.56	11379682.80	11379683.08	0.0090	0.0037	
Earth	26444-11-06 17:17 G	11379842.97	11379843.22	11379843.48	0.0090	0.0012	
Moon	26444-11-06 20:53 G	11379843.12	11379843.37	11379843.64	0.0090	0.0013	*
Moon	26445-11-09 03:50 G	11380210.41	11380210.66	11380210.92	0.0090	0.0003	
Earth	26445-11-09 06:29 G	11380210.51	11380210.77	11380211.03	0.0090	0.0003	*
Mars	26446-04-23 18:29 G	11380376.02	11380376.27	11380376.55	0.0090	0.0031	
Earth	26446-11-11 19:26 G	11380578.05	11380578.31	11380578.57	0.0090	0.0005	
Moon	26446-11-11 21:36 G	11380578.14	11380578.40	11380578.67	0.0090	0.0004	*
Moon	26447-11-14 07:12 G	11380945.56	11380945.80	11380946.05	0.0089	0.0015	
Earth	26447-11-14 08:24 G	11380945.59	11380945.85	11380946.11	0.0089	0.0014	*
Moon	26448-11-15 20:38 G	11381313.11	11381313.36	11381313.63	0.0089	0.0021	
Earth	26448-11-15 21:36 G	11381313.15	11381313.40	11381313.65	0.0089	0.0022	*
Earth	26449-11-18 10:19 G	11381680.70	11381680.93	11381681.19	0.0089	0.0030	
Moon	26449-11-18 11:31 G	11381680.76	11381680.98	11381681.23	0.0089	0.0032	*
Moon	26450-11-20 20:53 G	11382048.14	11382048.37	11382048.62	0.0089	0.0037	
Earth	26450-11-20 23:17 G	11382048.25	11382048.47	11382048.72	0.0089	0.0039	*
Earth	26451-11-23 12:00 G	11382415.80	11382416.00	11382416.24	0.0089	0.0047	
Moon	26451-11-23 15:36 G	11382415.94	11382416.15	11382416.37	0.0089	0.0048	*
Moon	26452-11-24 21:36 G	11382783.21	11382783.40	11382783.63	0.0089	0.0053	
Earth	26452-11-25 01:12 G	11382783.36	11382783.55	11382783.76	0.0089	0.0055	*
Earth	26453-11-27 13:41 G	11383150.91	11383151.07	11383151.27	0.0089	0.0063	

Moon	26453-11-27 17:17 G	11383151.07	11383151.22	11383151.42	0.0089	0.0066 *
Moon	26454-11-30 00:00 G	11383518.35	11383518.50	11383518.67	0.0089	0.0069
Earth	26454-11-30 02:24 G	11383518.47	11383518.60	11383518.78	0.0089	0.0071 *
Earth	26455-12-02 14:53 G	11383886.02	11383886.12	11383886.27	0.0089	0.0079
Moon	26455-12-02 18:00 G	11383886.14	11383886.25	11383886.36	0.0089	0.0081 *
Moon	26456-12-04 02:24 G	11384253.54	11384253.60	11384253.71	0.0089	0.0084
Earth	26456-12-04 04:05 G	11384253.61	11384253.67	11384253.74	0.0089	0.0086 *
Venus	26476-09-02 14:38 G	11391466.10	11391466.11	11391466.16	0.0089	0.0088
Venus	26477-04-16 03:36 G	11391691.53	11391691.65	11391691.81	0.0089	0.0069
Venus	26477-11-27 16:48 G	11391917.03	11391917.20	11391917.39	0.0089	0.0050
Venus	26478-07-11 05:45 G	11392142.54	11392142.74	11392142.96	0.0089	0.0031
Venus	26479-02-21 18:43 G	11392368.07	11392368.28	11392368.50	0.0089	0.0012
Venus	26479-10-05 07:41 G	11392593.61	11392593.82	11392594.04	0.0089	0.0008
Venus	26480-05-17 20:24 G	11392819.15	11392819.35	11392819.57	0.0089	0.0027
Venus	26480-12-29 09:07 G	11393044.71	11393044.88	11393045.09	0.0089	0.0046
Venus	26481-08-11 21:50 G	11393270.29	11393270.41	11393270.59	0.0089	0.0065
Venus	26482-03-25 10:33 G	11393495.90	11393495.94	11393496.04	0.0089	0.0084
Mercury	26489-12-20 08:09 G	11396322.83	11396322.84	11396322.87	0.0088	0.0087
Mercury	26490-03-18 09:50 G	11396410.86	11396410.91	11396410.97	0.0088	0.0079
Mercury	26490-06-14 11:17 G	11396498.90	11396498.97	11396499.06	0.0088	0.0073
Mercury	26490-09-10 12:43 G	11396586.95	11396587.03	11396587.14	0.0088	0.0066
Mercury	26490-12-07 14:24 G	11396675.01	11396675.10	11396675.22	0.0088	0.0058
Mercury	26491-03-05 16:05 G	11396763.06	11396763.17	11396763.29	0.0088	0.0051
Mercury	26491-06-01 17:45 G	11396851.12	11396851.24	11396851.37	0.0088	0.0044
Mercury	26491-08-28 19:12 G	11396939.18	11396939.30	11396939.44	0.0088	0.0037
Mercury	26491-11-24 20:53 G	11397027.24	11397027.37	11397027.51	0.0088	0.0029
Mercury	26492-02-20 22:33 G	11397115.30	11397115.44	11397115.58	0.0088	0.0022
Mercury	26492-05-19 00:14 G	11397203.37	11397203.51	11397203.65	0.0088	0.0015
Mercury	26492-08-15 01:55 G	11397291.43	11397291.58	11397291.72	0.0088	0.0008
Mercury	26492-11-11 03:21 G	11397379.50	11397379.64	11397379.79	0.0088	0.0002

Mercury	26493-02-07 05:02 G	11397467.57	11397467.71	11397467.86	0.0088	0.0007
Mercury	26493-05-06 06:43 G	11397555.64	11397555.78	11397555.92	0.0088	0.0015
Mercury	26493-08-02 08:09 G	11397643.71	11397643.84	11397643.99	0.0088	0.0023
Mercury	26493-10-29 10:05 G	11397731.78	11397731.92	11397732.05	0.0088	0.0029
Mercury	26494-01-25 11:31 G	11397819.86	11397819.98	11397820.12	0.0088	0.0037
Mercury	26494-04-23 13:12 G	11397907.93	11397908.05	11397908.18	0.0088	0.0044
Mercury	26494-07-20 14:38 G	11397996.01	11397996.11	11397996.24	0.0088	0.0053
Mercury	26494-10-16 16:33 G	11398084.09	11398084.19	11398084.30	0.0088	0.0059
Mercury	26495-01-12 18:29 G	11398172.17	11398172.27	11398172.36	0.0088	0.0067
Mercury	26495-04-10 19:55 G	11398260.26	11398260.33	11398260.41	0.0088	0.0074
Mercury	26495-07-07 21:21 G	11398348.36	11398348.39	11398348.46	0.0088	0.0082
Jupiter	26513-07-06 15:36 G	11404920.59	11404921.15	11404921.72	0.0088	0.0005
Earth	26517-04-17 12:57 G	11406302.02	11406302.04	11406302.08	0.0088	0.0087
Moon	26517-04-17 15:50 G	11406302.10	11406302.16	11406302.27	0.0088	0.0083
Moon	26518-04-19 20:38 G	11406669.31	11406669.36	11406669.46	0.0088	0.0084
Earth	26518-04-19 23:02 G	11406669.38	11406669.46	11406669.59	0.0088	0.0080 *
Earth	26519-04-22 09:07 G	11407036.77	11407036.88	11407037.06	0.0088	0.0073
Moon	26519-04-22 11:02 G	11407036.82	11407036.96	11407037.15	0.0088	0.0069 *
Earth	26520-04-23 19:55 G	11407404.17	11407404.33	11407404.52	0.0088	0.0065
Moon	26520-04-23 20:09 G	11407404.20	11407404.34	11407404.50	0.0088	0.0069 *
Moon	26521-04-26 04:48 G	11407771.51	11407771.70	11407771.93	0.0088	0.0054
Earth	26521-04-26 06:00 G	11407771.58	11407771.75	11407771.97	0.0088	0.0058 *
Earth	26522-04-28 16:33 G	11408138.99	11408139.19	11408139.41	0.0088	0.0050
Moon	26522-04-28 18:14 G	11408139.09	11408139.26	11408139.48	0.0088	0.0054 *
Moon	26523-04-30 23:45 G	11408506.26	11408506.49	11408506.73	0.0088	0.0038
Earth	26523-05-01 03:21 G	11408506.41	11408506.64	11408506.86	0.0088	0.0042 *
Earth	26524-05-02 13:12 G	11408873.83	11408874.05	11408874.30	0.0088	0.0035
Moon	26524-05-02 16:48 G	11408873.98	11408874.20	11408874.44	0.0088	0.0038 *
Moon	26525-05-04 20:24 G	11409241.11	11409241.35	11409241.60	0.0088	0.0023
Earth	26525-05-05 00:00 G	11409241.26	11409241.50	11409241.75	0.0088	0.0027 *

Mars	26526-03-14 21:50 G	11409555.23	11409555.41	11409555.68	0.0088	0.0067
Earth	26526-05-07 10:19 G	11409608.69	11409608.93	11409609.19	0.0088	0.0019
Moon	26526-05-07 13:26 G	11409608.81	11409609.06	11409609.32	0.0088	0.0023 *
Moon	26527-05-09 18:57 G	11409976.05	11409976.29	11409976.54	0.0088	0.0008
Earth	26527-05-09 21:07 G	11409976.13	11409976.38	11409976.64	0.0088	0.0011 *
Mars	26528-02-09 12:00 G	11410251.65	11410252.00	11410252.35	0.0088	0.0012
Earth	26528-05-11 07:41 G	11410343.56	11410343.82	11410344.08	0.0088	0.0003
Moon	26528-05-11 09:07 G	11410343.61	11410343.88	11410344.14	0.0088	0.0006 *
Earth	26529-05-13 18:00 G	11410711.00	11410711.25	11410711.51	0.0088	0.0005
Moon	26529-05-13 18:29 G	11410711.03	11410711.27	11410711.52	0.0088	0.0009 *
Moon	26530-05-16 02:53 G	11411078.36	11411078.62	11411078.89	0.0088	0.0010
Earth	26530-05-16 04:33 G	11411078.44	11411078.69	11411078.95	0.0088	0.0013 *
Earth	26531-05-18 14:53 G	11411445.88	11411446.12	11411446.38	0.0088	0.0021
Moon	26531-05-18 17:17 G	11411445.98	11411446.22	11411446.47	0.0088	0.0024 *
Moon	26532-05-19 21:36 G	11411813.17	11411813.40	11411813.67	0.0088	0.0025
Earth	26532-05-20 01:12 G	11411813.32	11411813.55	11411813.81	0.0088	0.0029 *
Earth	26533-05-22 11:31 G	11412180.76	11412180.98	11412181.23	0.0088	0.0037
Moon	26533-05-22 14:53 G	11412180.91	11412181.12	11412181.37	0.0088	0.0040 *
Moon	26534-05-24 18:43 G	11412548.06	11412548.28	11412548.51	0.0088	0.0041
Earth	26534-05-24 22:33 G	11412548.22	11412548.44	11412548.66	0.0088	0.0044 *
Earth	26535-05-27 08:38 G	11412915.67	11412915.86	11412916.08	0.0088	0.0052
Moon	26535-05-27 11:02 G	11412915.79	11412915.96	11412916.19	0.0088	0.0056 *
Moon	26536-05-28 17:31 G	11413283.05	11413283.23	11413283.43	0.0088	0.0057
Earth	26536-05-28 19:12 G	11413283.13	11413283.30	11413283.50	0.0088	0.0060 *
Earth	26537-05-31 06:00 G	11413650.59	11413650.75	11413650.92	0.0088	0.0067
Moon	26537-05-31 06:43 G	11413650.64	11413650.78	11413650.96	0.0088	0.0070 *
Earth	26538-06-02 16:19 G	11414018.07	11414018.18	11414018.34	0.0088	0.0075
Moon	26538-06-02 17:17 G	11414018.10	11414018.22	11414018.38	0.0088	0.0072 *
Moon	26539-06-05 01:26 G	11414385.52	11414385.56	11414385.65	0.0088	0.0085
Earth	26539-06-05 03:21 G	11414385.57	11414385.64	11414385.74	0.0088	0.0082 *

Moon	26540-06-06 16:33 G	11414753.18	11414753.19	11414753.24	0.0088	0.0087
Venus	26560-01-14 02:09 G	11421913.54	11421913.59	11421913.66	0.0089	0.0085
Venus	26560-08-26 15:07 G	11422139.00	11422139.13	11422139.29	0.0089	0.0066
Venus	26561-04-09 04:19 G	11422364.50	11422364.68	11422364.88	0.0089	0.0047
Venus	26561-11-20 17:31 G	11422590.03	11422590.23	11422590.45	0.0089	0.0028
Venus	26562-07-04 06:43 G	11422815.56	11422815.78	11422816.00	0.0089	0.0008
Venus	26563-02-14 19:41 G	11423041.11	11423041.32	11423041.54	0.0089	0.0011
Venus	26563-09-28 08:38 G	11423266.66	11423266.86	11423267.08	0.0089	0.0030
Venus	26564-05-10 21:50 G	11423492.24	11423492.41	11423492.61	0.0089	0.0049
Venus	26564-12-22 11:02 G	11423717.83	11423717.96	11423718.11	0.0089	0.0068
Venus	26565-08-05 00:14 G	11423943.48	11423943.51	11423943.56	0.0089	0.0087
Mercury	26573-12-07 15:36 G	11426990.10	11426990.15	11426990.23	0.0089	0.0083
Mercury	26574-03-05 18:29 G	11427078.18	11427078.27	11427078.38	0.0089	0.0073
Mercury	26574-06-01 21:36 G	11427166.28	11427166.40	11427166.53	0.0089	0.0064
Mercury	26574-08-29 00:29 G	11427254.39	11427254.52	11427254.67	0.0089	0.0054
Mercury	26574-11-25 03:07 G	11427342.49	11427342.63	11427342.80	0.0089	0.0045
Mercury	26575-02-21 06:14 G	11427430.60	11427430.76	11427430.93	0.0089	0.0035
Mercury	26575-05-20 09:07 G	11427518.72	11427518.88	11427519.05	0.0089	0.0026
Mercury	26575-08-16 12:00 G	11427606.83	11427607.00	11427607.18	0.0089	0.0017
Mercury	26575-11-12 14:53 G	11427694.95	11427695.12	11427695.30	0.0089	0.0008
Mercury	26576-02-08 17:45 G	11427783.07	11427783.24	11427783.42	0.0089	0.0002
Mercury	26576-05-06 20:38 G	11427871.18	11427871.36	11427871.53	0.0089	0.0011
Mercury	26576-08-02 23:17 G	11427959.31	11427959.47	11427959.65	0.0089	0.0020
Mercury	26576-10-30 02:09 G	11428047.43	11428047.59	11428047.76	0.0089	0.0029
Mercury	26577-01-26 04:48 G	11428135.55	11428135.70	11428135.86	0.0089	0.0038
Mercury	26577-04-24 07:41 G	11428223.68	11428223.82	11428223.97	0.0089	0.0047
Mercury	26577-07-21 10:19 G	11428311.80	11428311.93	11428312.07	0.0089	0.0056
Mercury	26577-10-17 12:57 G	11428399.94	11428400.04	11428400.17	0.0089	0.0066
Mercury	26578-01-13 15:50 G	11428488.07	11428488.16	11428488.26	0.0089	0.0074
Mercury	26578-04-11 18:29 G	11428576.22	11428576.27	11428576.34	0.0089	0.0083

Moon	26599-10-18 03:36 G	11436435.57	11436435.65	11436435.72	0.0090	0.0085
Earth	26599-10-18 05:31 G	11436435.73	11436435.73	11436435.77	0.0090	0.0089
Earth	26600-10-20 18:14 G	11436803.19	11436803.26	11436803.40	0.0090	0.0082
Moon	26600-10-20 19:12 G	11436803.25	11436803.30	11436803.41	0.0090	0.0086 *
Earth	26601-10-23 07:41 G	11437170.70	11437170.82	11437170.99	0.0090	0.0074
Moon	26601-10-23 08:09 G	11437170.70	11437170.84	11437171.01	0.0090	0.0070 *
Moon	26602-10-25 19:41 G	11437538.17	11437538.32	11437538.51	0.0090	0.0070
Earth	26602-10-25 20:38 G	11437538.21	11437538.36	11437538.56	0.0090	0.0066 *
Earth	26603-10-28 09:50 G	11437905.74	11437905.91	11437906.13	0.0090	0.0058
Moon	26603-10-28 12:43 G	11437905.84	11437906.03	11437906.24	0.0090	0.0053 *
Moon	26604-10-29 20:24 G	11438273.15	11438273.35	11438273.57	0.0090	0.0053
Earth	26604-10-29 23:31 G	11438273.27	11438273.48	11438273.70	0.0090	0.0049 *
Earth	26605-11-01 12:29 G	11438640.80	11438641.02	11438641.26	0.0090	0.0041
Moon	26605-11-01 16:05 G	11438640.94	11438641.17	11438641.41	0.0090	0.0036 *
Moon	26606-11-03 22:05 G	11439008.19	11439008.42	11439008.66	0.0090	0.0037
Earth	26606-11-04 01:26 G	11439008.33	11439008.56	11439008.82	0.0090	0.0032 *
Earth	26607-11-06 14:24 G	11439375.86	11439376.10	11439376.36	0.0090	0.0024
Moon	26607-11-06 17:31 G	11439375.98	11439376.23	11439376.50	0.0090	0.0019 *
Mars	26608-01-16 01:12 G	11439446.36	11439446.55	11439446.80	0.0090	0.0058
Moon	26608-11-08 00:57 G	11439743.30	11439743.54	11439743.79	0.0090	0.0020
Earth	26608-11-08 03:21 G	11439743.40	11439743.64	11439743.91	0.0090	0.0016 *
Earth	26609-11-10 16:33 G	11440110.93	11440111.19	11440111.45	0.0090	0.0007
Moon	26609-11-10 17:45 G	11440110.98	11440111.24	11440111.51	0.0090	0.0002 *
Mars	26609-12-09 13:55 G	11440139.80	11440140.08	11440140.36	0.0090	0.0009
Earth	26610-11-13 05:17 G	11440478.46	11440478.72	11440478.98	0.0090	0.0002
Moon	26610-11-13 05:02 G	11440478.47	11440478.71	11440478.96	0.0090	0.0003 *
Mars	26611-11-03 01:55 G	11440833.43	11440833.58	11440833.73	0.0090	0.0075
Moon	26611-11-15 17:31 G	11440845.97	11440846.23	11440846.49	0.0090	0.0015
Earth	26611-11-15 18:14 G	11440846.00	11440846.26	11440846.52	0.0090	0.0010 *
Earth	26612-11-17 07:12 G	11441213.55	11441213.80	11441214.05	0.0089	0.0019

Moon	26612-11-17 09:21 G	11441213.65	11441213.89	11441214.14	0.0089	0.0014 *
Moon	26613-11-19 17:02 G	11441580.97	11441581.21	11441581.46	0.0089	0.0032
Earth	26613-11-19 19:55 G	11441581.09	11441581.33	11441581.58	0.0089	0.0027 *
Earth	26614-11-22 08:53 G	11441948.64	11441948.87	11441949.11	0.0089	0.0036
Moon	26614-11-22 12:00 G	11441948.78	11441949.00	11441949.26	0.0089	0.0032 *
Moon	26615-11-24 18:14 G	11442316.05	11442316.26	11442316.48	0.0089	0.0049
Earth	26615-11-24 21:36 G	11442316.19	11442316.40	11442316.64	0.0089	0.0044 *
Earth	26616-11-26 10:33 G	11442683.75	11442683.94	11442684.17	0.0089	0.0053
Moon	26616-11-26 13:41 G	11442683.87	11442684.07	11442684.31	0.0089	0.0049 *
Moon	26617-11-28 20:24 G	11443051.21	11443051.35	11443051.55	0.0089	0.0066
Earth	26617-11-28 23:31 G	11443051.31	11443051.48	11443051.69	0.0089	0.0061 *
Earth	26618-12-01 12:14 G	11443418.86	11443419.01	11443419.19	0.0089	0.0069
Moon	26618-12-01 13:26 G	11443418.90	11443419.06	11443419.27	0.0089	0.0065 *
Moon	26619-12-04 00:29 G	11443786.43	11443786.52	11443786.64	0.0089	0.0081
Earth	26619-12-04 00:57 G	11443786.43	11443786.54	11443786.69	0.0089	0.0077 *
Moon	26620-12-05 12:57 G	11444153.95	11444154.04	11444154.18	0.0089	0.0081
Earth	26620-12-05 13:41 G	11444154.01	11444154.07	11444154.17	0.0089	0.0085 *
Venus	26641-07-20 15:07 G	11451686.04	11451686.13	11451686.27	0.0089	0.0076
Venus	26642-03-03 04:05 G	11451911.53	11451911.67	11451911.86	0.0089	0.0057
Venus	26642-10-14 17:45 G	11452137.04	11452137.24	11452137.44	0.0089	0.0037
Venus	26643-05-28 06:43 G	11452362.56	11452362.78	11452362.99	0.0089	0.0018
Venus	26644-01-08 19:41 G	11452588.10	11452588.32	11452588.54	0.0089	0.0002
Venus	26644-08-21 08:24 G	11452813.64	11452813.85	11452814.07	0.0089	0.0020
Venus	26645-04-03 21:07 G	11453039.19	11453039.38	11453039.59	0.0089	0.0039
Venus	26645-11-15 10:05 G	11453264.77	11453264.92	11453265.10	0.0089	0.0058
Venus	26646-06-28 22:48 G	11453490.36	11453490.45	11453490.58	0.0089	0.0077
Mercury	26654-09-18 08:09 G	11456493.80	11456493.84	11456493.89	0.0088	0.0083
Mercury	26654-12-15 09:36 G	11456581.84	11456581.90	11456581.98	0.0088	0.0076
Mercury	26655-03-13 11:02 G	11456669.88	11456669.96	11456670.06	0.0088	0.0069
Mercury	26655-06-09 12:43 G	11456757.94	11456758.03	11456758.14	0.0088	0.0061

Mercury	26655-09-05 14:09 G	11456845.99	11456846.09	11456846.21	0.0088	0.0055
Mercury	26655-12-02 15:50 G	11456934.05	11456934.16	11456934.29	0.0088	0.0047
Mercury	26656-02-28 17:31 G	11457022.11	11457022.23	11457022.36	0.0088	0.0040
Mercury	26656-05-26 19:12 G	11457110.17	11457110.30	11457110.43	0.0088	0.0032
Mercury	26656-08-22 20:38 G	11457198.23	11457198.36	11457198.50	0.0088	0.0026
Mercury	26656-11-18 22:19 G	11457286.29	11457286.43	11457286.57	0.0088	0.0018
Mercury	26657-02-15 00:00 G	11457374.36	11457374.50	11457374.64	0.0088	0.0011
Mercury	26657-05-14 01:41 G	11457462.43	11457462.57	11457462.71	0.0088	0.0003
Mercury	26657-08-10 03:21 G	11457550.49	11457550.64	11457550.78	0.0088	0.0005
Mercury	26657-11-06 04:48 G	11457638.56	11457638.70	11457638.85	0.0088	0.0012
Mercury	26658-02-02 06:29 G	11457726.63	11457726.77	11457726.91	0.0088	0.0019
Mercury	26658-05-01 08:09 G	11457814.70	11457814.84	11457814.98	0.0088	0.0026
Mercury	26658-07-28 09:50 G	11457902.78	11457902.91	11457903.04	0.0088	0.0034
Mercury	26658-10-24 11:17 G	11457990.85	11457990.97	11457991.11	0.0088	0.0041
Mercury	26659-01-20 12:57 G	11458078.93	11458079.04	11458079.17	0.0088	0.0049
Mercury	26659-04-18 14:38 G	11458167.01	11458167.11	11458167.23	0.0088	0.0056
Mercury	26659-07-15 16:19 G	11458255.09	11458255.18	11458255.29	0.0088	0.0063
Mercury	26659-10-11 17:45 G	11458343.17	11458343.24	11458343.34	0.0088	0.0072
Mercury	26660-01-07 19:41 G	11458431.26	11458431.32	11458431.39	0.0088	0.0078
Mercury	26660-04-04 21:07 G	11458519.37	11458519.38	11458519.43	0.0088	0.0086
Jupiter	26679-09-10 18:29 G	11465617.27	11465617.27	11465617.31	0.0088	0.0088
Earth	26682-04-20 11:02 G	11466569.92	11466569.96	11466570.05	0.0088	0.0085
Moon	26682-04-20 12:14 G	11466569.94	11466570.01	11466570.10	0.0088	0.0083 *
Earth	26683-04-22 22:05 G	11466937.30	11466937.42	11466937.54	0.0088	0.0077
Moon	26683-04-22 22:05 G	11466937.32	11466937.42	11466937.53	0.0088	0.0079 *
Moon	26684-04-24 06:14 G	11467304.61	11467304.76	11467304.94	0.0088	0.0068
Earth	26684-04-24 07:55 G	11467304.69	11467304.83	11467305.00	0.0088	0.0070 *
Earth	26685-04-26 18:14 G	11467672.10	11467672.26	11467672.46	0.0088	0.0062
Moon	26685-04-26 21:21 G	11467672.22	11467672.39	11467672.56	0.0088	0.0063 *
Moon	26686-04-29 01:41 G	11468039.37	11468039.57	11468039.78	0.0088	0.0052



Earth	26686-04-29 05:02 G	11468039.51	11468039.71	11468039.91	0.0088	0.0054	*
Earth	26687-05-01 14:38 G	11468406.92	11468407.11	11468407.35	0.0088	0.0047	
Moon	26687-05-01 18:57 G	11468407.08	11468407.29	11468407.50	0.0088	0.0048	*
Moon	26688-05-02 22:19 G	11468774.21	11468774.43	11468774.67	0.0088	0.0037	
Earth	26688-05-03 01:12 G	11468774.34	11468774.55	11468774.80	0.0088	0.0039	*
Earth	26689-05-05 11:31 G	11469141.75	11469141.98	11469142.23	0.0088	0.0031	
Moon	26689-05-05 14:38 G	11469141.87	11469142.11	11469142.36	0.0088	0.0033	*
Moon	26690-05-07 20:24 G	11469509.12	11469509.35	11469509.61	0.0088	0.0021	
Earth	26690-05-07 22:05 G	11469509.18	11469509.42	11469509.68	0.0088	0.0023	*
Earth	26691-05-10 08:38 G	11469876.61	11469876.86	11469877.12	0.0088	0.0015	
Moon	26691-05-10 09:07 G	11469876.62	11469876.88	11469877.14	0.0088	0.0016	*
Mars	26691-09-23 21:50 G	11470013.06	11470013.41	11470013.75	0.0088	0.0013	
Earth	26692-05-11 18:57 G	11470244.04	11470244.29	11470244.56	0.0088	0.0007	
Moon	26692-05-11 19:41 G	11470244.07	11470244.32	11470244.57	0.0088	0.0004	*
Moon	26693-05-14 03:21 G	11470611.38	11470611.64	11470611.91	0.0088	0.0002	
Earth	26693-05-14 05:45 G	11470611.48	11470611.74	11470612.00	0.0088	0.0002	*
Mars	26693-08-20 10:48 G	11470709.73	11470709.95	11470710.20	0.0088	0.0065	
Earth	26694-05-16 16:05 G	11470978.92	11470979.17	11470979.43	0.0088	0.0010	
Moon	26694-05-16 18:57 G	11470979.05	11470979.29	11470979.55	0.0088	0.0012	*
Moon	26695-05-18 23:17 G	11471346.22	11471346.47	11471346.73	0.0088	0.0015	
Earth	26695-05-19 02:38 G	11471346.36	11471346.61	11471346.87	0.0088	0.0018	*
Earth	26696-05-20 12:57 G	11471713.80	11471714.04	11471714.30	0.0088	0.0026	
Moon	26696-05-20 16:48 G	11471713.96	11471714.20	11471714.45	0.0088	0.0028	*
Moon	26697-05-22 20:24 G	11472081.13	11472081.35	11472081.60	0.0088	0.0032	
Earth	26697-05-22 23:31 G	11472081.25	11472081.48	11472081.72	0.0088	0.0034	*
Earth	26698-05-25 09:50 G	11472448.70	11472448.91	11472449.15	0.0088	0.0042	
Moon	26698-05-25 12:29 G	11472448.81	11472449.02	11472449.26	0.0088	0.0045	*
Moon	26699-05-27 18:57 G	11472816.10	11472816.29	11472816.52	0.0088	0.0048	
Earth	26699-05-27 20:24 G	11472816.15	11472816.35	11472816.58	0.0088	0.0050	*
Moon	26700-05-30 06:29 G	11473183.60	11473183.77	11473183.99	0.0088	0.0060	

Earth	26700-05-30 06:43 G	11473183.61	11473183.78	11473183.99	0.0088	0.0058	*
Earth	26701-06-01 17:02 G	11473551.07	11473551.21	11473551.41	0.0088	0.0066	
Moon	26701-06-01 18:14 G	11473551.10	11473551.26	11473551.45	0.0088	0.0063	*
Moon	26702-06-04 01:12 G	11473918.45	11473918.55	11473918.71	0.0088	0.0076	
Earth	26702-06-04 04:19 G	11473918.55	11473918.68	11473918.83	0.0088	0.0073	*
Earth	26703-06-06 14:38 G	11474286.03	11474286.11	11474286.23	0.0088	0.0081	
Moon	26703-06-06 17:31 G	11474286.15	11474286.23	11474286.37	0.0088	0.0079	*
Venus	26724-11-30 02:24 G	11482133.50	11482133.60	11482133.76	0.0089	0.0073	
Venus	26725-07-13 15:36 G	11482359.00	11482359.15	11482359.35	0.0089	0.0054	
Venus	26726-02-24 04:48 G	11482584.51	11482584.70	11482584.92	0.0089	0.0035	
Venus	26726-10-07 18:00 G	11482810.04	11482810.25	11482810.47	0.0089	0.0015	
Venus	26727-05-21 07:12 G	11483035.58	11483035.80	11483036.03	0.0089	0.0004	
Venus	26728-01-01 20:09 G	11483261.14	11483261.34	11483261.56	0.0089	0.0023	
Venus	26728-08-14 09:21 G	11483486.70	11483486.89	11483487.09	0.0089	0.0042	
Venus	26729-03-27 22:19 G	11483712.28	11483712.43	11483712.60	0.0089	0.0061	
Venus	26729-11-08 11:31 G	11483937.89	11483937.98	11483938.08	0.0089	0.0080	
Mercury	26738-06-09 11:45 G	11487072.97	11487072.99	11487073.05	0.0089	0.0087	
Mercury	26738-09-05 14:53 G	11487161.05	11487161.12	11487161.22	0.0089	0.0078	
Mercury	26738-12-02 17:45 G	11487249.14	11487249.24	11487249.37	0.0089	0.0068	
Mercury	26739-02-28 20:53 G	11487337.24	11487337.37	11487337.51	0.0089	0.0058	
Mercury	26739-05-27 23:45 G	11487425.35	11487425.49	11487425.64	0.0089	0.0049	
Mercury	26739-08-24 02:38 G	11487513.46	11487513.61	11487513.78	0.0089	0.0040	
Mercury	26739-11-20 05:31 G	11487601.57	11487601.73	11487601.90	0.0089	0.0031	
Mercury	26740-02-16 08:24 G	11487689.69	11487689.85	11487690.03	0.0089	0.0021	
Mercury	26740-05-14 11:17 G	11487777.80	11487777.97	11487778.15	0.0089	0.0012	
Mercury	26740-08-10 14:09 G	11487865.92	11487866.09	11487866.27	0.0089	0.0004	
Mercury	26740-11-06 17:02 G	11487954.04	11487954.21	11487954.39	0.0089	0.0007	
Mercury	26741-02-02 19:55 G	11488042.16	11488042.33	11488042.50	0.0089	0.0016	
Mercury	26741-05-01 22:33 G	11488130.28	11488130.44	11488130.62	0.0089	0.0025	
Mercury	26741-07-29 01:26 G	11488218.40	11488218.56	11488218.72	0.0089	0.0034	

Mercury	26741-10-25 04:19 G	11488306.53	11488306.68	11488306.83	0.0089	0.0043
Mercury	26742-01-21 06:57 G	11488394.66	11488394.79	11488394.94	0.0089	0.0053
Mercury	26742-04-19 09:50 G	11488482.79	11488482.91	11488483.04	0.0089	0.0061
Mercury	26742-07-16 12:29 G	11488570.92	11488571.02	11488571.13	0.0089	0.0071
Mercury	26742-10-12 15:07 G	11488659.06	11488659.13	11488659.22	0.0089	0.0080
Mercury	26743-01-08 17:45 G	11488747.24	11488747.24	11488747.27	0.0089	0.0089
Earth	26764-10-21 03:50 G	11496703.62	11496703.66	11496703.75	0.0090	0.0087
Moon	26764-10-21 05:02 G	11496703.71	11496703.71	11496703.73	0.0090	0.0089 *
Moon	26765-10-23 14:38 G	11497070.99	11497071.11	11497071.27	0.0090	0.0076
Earth	26765-10-23 16:48 G	11497071.10	11497071.20	11497071.34	0.0090	0.0079 *
Earth	26766-10-26 05:45 G	11497438.61	11497438.74	11497438.92	0.0090	0.0071
Moon	26766-10-26 08:24 G	11497438.72	11497438.85	11497439.02	0.0090	0.0073 *
Moon	26767-10-28 15:36 G	11497805.97	11497806.15	11497806.35	0.0090	0.0060
Earth	26767-10-28 18:57 G	11497806.13	11497806.29	11497806.50	0.0090	0.0063 *
Earth	26768-10-30 08:09 G	11498173.65	11498173.84	11498174.06	0.0090	0.0054
Moon	26768-10-30 11:45 G	11498173.80	11498173.99	11498174.21	0.0090	0.0056 *
Moon	26769-11-01 17:45 G	11498541.04	11498541.24	11498541.49	0.0090	0.0045
Earth	26769-11-01 21:21 G	11498541.19	11498541.39	11498541.63	0.0090	0.0046 *
Earth	26770-11-04 10:33 G	11498908.71	11498908.94	11498909.19	0.0090	0.0037
Moon	26770-11-04 13:41 G	11498908.83	11498909.07	11498909.31	0.0090	0.0038 *
Mars	26771-09-01 20:53 G	11499210.25	11499210.37	11499210.52	0.0090	0.0079
Moon	26771-11-06 22:19 G	11499276.19	11499276.43	11499276.67	0.0090	0.0027
Earth	26771-11-07 00:00 G	11499276.25	11499276.50	11499276.74	0.0090	0.0028 *
Earth	26772-11-08 12:43 G	11499643.79	11499644.03	11499644.30	0.0090	0.0020
Moon	26772-11-08 13:55 G	11499643.83	11499644.08	11499644.35	0.0090	0.0020 *
Mars	26773-07-26 08:09 G	11499903.56	11499903.84	11499904.13	0.0090	0.0012
Earth	26773-11-11 01:55 G	11500011.32	11500011.58	11500011.84	0.0090	0.0011
Moon	26773-11-11 02:24 G	11500011.36	11500011.60	11500011.85	0.0090	0.0010 *
Moon	26774-11-13 12:57 G	11500378.77	11500379.04	11500379.31	0.0090	0.0003
Earth	26774-11-13 14:53 G	11500378.86	11500379.12	11500379.38	0.0090	0.0002 *

Mars	26775-06-19 19:26 G	11500597.10	11500597.31	11500597.56	0.0090	0.0054
Earth	26775-11-16 03:50 G	11500746.40	11500746.66	11500746.92	0.0090	0.0007
Moon	26775-11-16 06:14 G	11500746.51	11500746.76	11500747.01	0.0090	0.0007 *
Moon	26776-11-17 13:12 G	11501113.79	11501114.05	11501114.31	0.0089	0.0015
Earth	26776-11-17 16:33 G	11501113.95	11501114.19	11501114.45	0.0089	0.0016 *
Earth	26777-11-20 05:17 G	11501481.49	11501481.72	11501481.98	0.0089	0.0025
Moon	26777-11-20 08:53 G	11501481.63	11501481.87	11501482.13	0.0089	0.0025 *
Moon	26778-11-22 14:38 G	11501848.89	11501849.11	11501849.36	0.0089	0.0034
Earth	26778-11-22 18:29 G	11501849.03	11501849.27	11501849.51	0.0089	0.0033 *
Earth	26779-11-25 06:57 G	11502216.58	11502216.79	11502217.04	0.0089	0.0042
Moon	26779-11-25 10:05 G	11502216.70	11502216.92	11502217.17	0.0089	0.0042 *
Moon	26780-11-26 18:14 G	11502584.07	11502584.26	11502584.48	0.0089	0.0050
Earth	26780-11-26 20:24 G	11502584.14	11502584.35	11502584.57	0.0089	0.0050 *
Earth	26781-11-29 08:53 G	11502951.69	11502951.87	11502952.08	0.0089	0.0059
Moon	26781-11-29 10:05 G	11502951.74	11502951.92	11502952.15	0.0089	0.0058 *
Earth	26782-12-01 22:05 G	11503319.26	11503319.42	11503319.60	0.0089	0.0067
Moon	26782-12-01 22:05 G	11503319.28	11503319.42	11503319.61	0.0089	0.0068 *
Moon	26783-12-04 09:07 G	11503686.76	11503686.88	11503687.05	0.0089	0.0075
Earth	26783-12-04 11:17 G	11503686.83	11503686.97	11503687.11	0.0089	0.0075 *
Earth	26784-12-05 23:02 G	11504054.40	11504054.46	11504054.59	0.0089	0.0084
Moon	26784-12-06 01:41 G	11504054.51	11504054.57	11504054.66	0.0089	0.0085 *
Venus	26805-10-23 02:38 G	11511680.54	11511680.61	11511680.70	0.0089	0.0082
Venus	26806-06-05 15:50 G	11511906.01	11511906.16	11511906.32	0.0089	0.0063
Venus	26807-01-17 04:48 G	11512131.51	11512131.70	11512131.89	0.0089	0.0044
Venus	26807-08-30 17:45 G	11512357.03	11512357.24	11512357.45	0.0089	0.0025
Venus	26808-04-12 06:43 G	11512582.56	11512582.78	11512583.00	0.0089	0.0006
Venus	26808-11-23 19:41 G	11512808.11	11512808.32	11512808.54	0.0089	0.0013
Venus	26809-07-07 08:38 G	11513033.66	11513033.86	11513034.07	0.0089	0.0032
Venus	26810-02-17 21:21 G	11513259.22	11513259.39	11513259.58	0.0089	0.0051
Venus	26810-10-01 10:05 G	11513484.81	11513484.92	11513485.07	0.0089	0.0070

Venus	26811-05-14 23:17 G	11513710.47	11513710.47	11513710.48	0.0089	0.0088
Mercury	26819-03-20 06:00 G	11516576.74	11516576.75	11516576.80	0.0088	0.0087
Mercury	26819-06-16 07:41 G	11516664.77	11516664.82	11516664.89	0.0088	0.0079
Mercury	26819-09-12 09:36 G	11516752.82	11516752.90	11516752.98	0.0088	0.0072
Mercury	26819-12-09 11:02 G	11516840.87	11516840.96	11516841.06	0.0088	0.0065
Mercury	26820-03-06 12:29 G	11516928.92	11516929.02	11516929.13	0.0088	0.0058
Mercury	26820-06-02 14:09 G	11517016.98	11517017.09	11517017.21	0.0088	0.0050
Mercury	26820-08-29 15:36 G	11517105.04	11517105.15	11517105.28	0.0088	0.0043
Mercury	26820-11-25 17:17 G	11517193.10	11517193.22	11517193.36	0.0088	0.0036
Mercury	26821-02-21 18:57 G	11517281.16	11517281.29	11517281.43	0.0088	0.0029
Mercury	26821-05-20 20:38 G	11517369.22	11517369.36	11517369.50	0.0088	0.0021
Mercury	26821-08-16 22:05 G	11517457.29	11517457.42	11517457.57	0.0088	0.0014
Mercury	26821-11-12 23:45 G	11517545.35	11517545.49	11517545.64	0.0088	0.0007
Mercury	26822-02-09 01:26 G	11517633.42	11517633.56	11517633.70	0.0088	0.0001
Mercury	26822-05-08 03:07 G	11517721.48	11517721.63	11517721.77	0.0088	0.0008
Mercury	26822-08-04 04:33 G	11517809.55	11517809.69	11517809.84	0.0088	0.0016
Mercury	26822-10-31 06:14 G	11517897.63	11517897.76	11517897.90	0.0088	0.0023
Mercury	26823-01-27 07:55 G	11517985.70	11517985.83	11517985.97	0.0088	0.0030
Mercury	26823-04-25 09:36 G	11518073.77	11518073.90	11518074.03	0.0088	0.0038
Mercury	26823-07-22 11:02 G	11518161.85	11518161.96	11518162.09	0.0088	0.0045
Mercury	26823-10-18 12:43 G	11518249.92	11518250.03	11518250.15	0.0088	0.0053
Mercury	26824-01-14 14:24 G	11518338.00	11518338.10	11518338.21	0.0088	0.0060
Mercury	26824-04-11 16:05 G	11518426.09	11518426.17	11518426.27	0.0088	0.0068
Mercury	26824-07-08 17:31 G	11518514.17	11518514.23	11518514.32	0.0088	0.0076
Mercury	26824-10-04 19:26 G	11518602.27	11518602.31	11518602.37	0.0088	0.0082
Moon	26846-04-21 00:00 G	11526470.47	11526470.50	11526470.56	0.0088	0.0086
Moon	26847-04-23 06:43 G	11526837.77	11526837.78	11526837.86	0.0088	0.0087
Earth	26847-04-23 08:53 G	11526837.81	11526837.87	11526837.98	0.0088	0.0083 *
Earth	26848-04-24 19:26 G	11527205.20	11527205.31	11527205.46	0.0088	0.0075
Moon	26848-04-24 23:02 G	11527205.31	11527205.46	11527205.61	0.0088	0.0070 *

Moon	26849-04-27 02:09 G	11527572.47	11527572.59	11527572.77	0.0088	0.0072
Earth	26849-04-27 06:00 G	11527572.60	11527572.75	11527572.93	0.0088	0.0067 *
Earth	26850-04-29 16:19 G	11527940.01	11527940.18	11527940.38	0.0088	0.0059
Moon	26850-04-29 19:41 G	11527940.14	11527940.32	11527940.54	0.0088	0.0055 *
Moon	26851-05-01 23:17 G	11528307.30	11528307.47	11528307.69	0.0088	0.0056
Earth	26851-05-02 02:53 G	11528307.42	11528307.62	11528307.84	0.0088	0.0051 *
Earth	26852-05-03 12:57 G	11528674.83	11528675.04	11528675.28	0.0088	0.0043
Moon	26852-05-03 14:53 G	11528674.90	11528675.12	11528675.38	0.0088	0.0039 *
Moon	26853-05-05 22:05 G	11529042.21	11529042.42	11529042.65	0.0088	0.0039
Earth	26853-05-05 23:17 G	11529042.25	11529042.47	11529042.72	0.0088	0.0035 *
Moon	26854-05-08 10:05 G	11529409.66	11529409.92	11529410.18	0.0088	0.0022
Earth	26854-05-08 09:50 G	11529409.68	11529409.91	11529410.17	0.0088	0.0027 *
Mars	26855-05-08 06:43 G	11529774.50	11529774.78	11529775.12	0.0088	0.0039
Earth	26855-05-10 20:09 G	11529777.10	11529777.34	11529777.60	0.0088	0.0019
Moon	26855-05-10 21:36 G	11529777.17	11529777.40	11529777.66	0.0088	0.0023 *
Moon	26856-05-12 04:33 G	11530144.43	11530144.69	11530144.95	0.0088	0.0006
Earth	26856-05-12 06:43 G	11530144.53	11530144.78	11530145.04	0.0088	0.0010 *
Mars	26857-04-03 19:55 G	11530471.04	11530471.33	11530471.66	0.0088	0.0040
Earth	26857-05-14 17:17 G	11530511.96	11530512.22	11530512.48	0.0088	0.0002
Moon	26857-05-14 20:24 G	11530512.10	11530512.35	11530512.61	0.0088	0.0007 *
Moon	26858-05-17 00:14 G	11530879.26	11530879.51	11530879.77	0.0088	0.0011
Earth	26858-05-17 03:36 G	11530879.40	11530879.65	11530879.92	0.0088	0.0007 *
Earth	26859-05-19 14:09 G	11531246.84	11531247.09	11531247.35	0.0088	0.0015
Moon	26859-05-19 17:45 G	11531246.98	11531247.24	11531247.50	0.0088	0.0011 *
Moon	26860-05-20 21:50 G	11531614.17	11531614.41	11531614.65	0.0088	0.0027
Earth	26860-05-21 00:43 G	11531614.29	11531614.53	11531614.78	0.0088	0.0023 *
Earth	26861-05-23 11:17 G	11531981.73	11531981.97	11531982.21	0.0088	0.0031
Moon	26861-05-23 12:57 G	11531981.79	11531982.04	11531982.30	0.0088	0.0027 *
Moon	26862-05-25 20:38 G	11532349.16	11532349.36	11532349.59	0.0088	0.0043
Earth	26862-05-25 21:21 G	11532349.18	11532349.39	11532349.64	0.0088	0.0040 *

Moon	26863-05-28 07:41 G	11532716.59	11532716.82	11532717.06	0.0088	0.0043
Earth	26863-05-28 07:41 G	11532716.63	11532716.82	11532717.06	0.0088	0.0048 *
Earth	26864-05-29 18:14 G	11533084.08	11533084.26	11533084.48	0.0088	0.0056
Moon	26864-05-29 20:09 G	11533084.18	11533084.34	11533084.54	0.0088	0.0060 *
Moon	26865-06-01 02:24 G	11533451.43	11533451.60	11533451.81	0.0088	0.0060
Earth	26865-06-01 04:48 G	11533451.55	11533451.70	11533451.90	0.0088	0.0064 *
Earth	26866-06-03 15:07 G	11533819.01	11533819.13	11533819.31	0.0088	0.0072
Moon	26866-06-03 18:43 G	11533819.18	11533819.28	11533819.43	0.0088	0.0076 *
Moon	26867-06-05 22:48 G	11534186.33	11534186.45	11534186.59	0.0088	0.0075
Earth	26867-06-06 01:41 G	11534186.50	11534186.57	11534186.71	0.0088	0.0080 *
Earth	26868-06-07 12:29 G	11534554.01	11534554.02	11534554.07	0.0088	0.0087
Venus	26889-03-03 14:09 G	11542128.01	11542128.09	11542128.20	0.0089	0.0079
Venus	26889-10-15 03:21 G	11542353.49	11542353.64	11542353.81	0.0089	0.0060
Venus	26890-05-28 16:33 G	11542579.00	11542579.19	11542579.39	0.0089	0.0041
Venus	26891-01-09 05:45 G	11542804.53	11542804.74	11542804.95	0.0089	0.0022
Venus	26891-08-22 18:43 G	11543030.06	11543030.28	11543030.50	0.0089	0.0003
Venus	26892-04-04 07:41 G	11543255.61	11543255.82	11543256.04	0.0089	0.0016
Venus	26892-11-15 20:53 G	11543481.17	11543481.37	11543481.57	0.0089	0.0035
Venus	26893-06-29 09:50 G	11543706.74	11543706.91	11543707.09	0.0089	0.0054
Venus	26894-02-09 23:02 G	11543932.34	11543932.46	11543932.58	0.0089	0.0073
Mercury	26903-03-07 11:02 G	11547243.91	11547243.96	11547244.05	0.0089	0.0082
Mercury	26903-06-03 14:09 G	11547332.00	11547332.09	11547332.20	0.0089	0.0073
Mercury	26903-08-30 17:02 G	11547420.10	11547420.21	11547420.35	0.0089	0.0063
Mercury	26903-11-26 20:09 G	11547508.20	11547508.34	11547508.49	0.0089	0.0054
Mercury	26904-02-22 23:02 G	11547596.31	11547596.46	11547596.62	0.0089	0.0044
Mercury	26904-05-21 01:55 G	11547684.42	11547684.58	11547684.75	0.0089	0.0035
Mercury	26904-08-17 04:48 G	11547772.54	11547772.70	11547772.87	0.0089	0.0026
Mercury	26904-11-13 07:41 G	11547860.65	11547860.82	11547861.00	0.0089	0.0016
Mercury	26905-02-09 10:33 G	11547948.77	11547948.94	11547949.12	0.0089	0.0007
Mercury	26905-05-08 13:26 G	11548036.89	11548037.06	11548037.24	0.0089	0.0003

Mercury	26905-08-04 16:19 G	11548125.01	11548125.18	11548125.35	0.0089	0.0012
Mercury	26905-10-31 18:57 G	11548213.13	11548213.29	11548213.47	0.0089	0.0021
Mercury	26906-01-27 21:50 G	11548301.25	11548301.41	11548301.58	0.0089	0.0030
Mercury	26906-04-26 00:29 G	11548389.38	11548389.52	11548389.69	0.0089	0.0040
Mercury	26906-07-23 03:21 G	11548477.50	11548477.64	11548477.79	0.0089	0.0048
Mercury	26906-10-19 06:14 G	11548565.63	11548565.76	11548565.90	0.0089	0.0057
Mercury	26907-01-15 08:53 G	11548653.77	11548653.87	11548653.99	0.0089	0.0066
Mercury	26907-04-13 11:31 G	11548741.90	11548741.98	11548742.09	0.0089	0.0076
Mercury	26907-07-10 14:24 G	11548830.06	11548830.10	11548830.16	0.0089	0.0084
Moon	26928-10-21 10:48 G	11556603.93	11556603.95	11556604.01	0.0090	0.0089
Earth	26929-10-24 02:38 G	11556971.53	11556971.61	11556971.70	0.0090	0.0084
Moon	26929-10-24 05:31 G	11556971.70	11556971.73	11556971.81	0.0090	0.0088 *
Moon	26930-10-26 12:14 G	11557338.86	11557339.01	11557339.16	0.0090	0.0072
Earth	26930-10-26 15:21 G	11557339.02	11557339.14	11557339.29	0.0090	0.0076 *
Earth	26931-10-29 04:05 G	11557706.53	11557706.67	11557706.87	0.0090	0.0068
Moon	26931-10-29 07:55 G	11557706.70	11557706.83	11557707.01	0.0090	0.0072 *
Moon	26932-10-30 14:24 G	11558073.93	11558074.10	11558074.33	0.0090	0.0056
Earth	26932-10-30 17:31 G	11558074.05	11558074.23	11558074.44	0.0090	0.0059 *
Earth	26933-11-02 06:29 G	11558441.56	11558441.77	11558441.99	0.0090	0.0050
Moon	26933-11-02 08:53 G	11558441.67	11558441.87	11558442.09	0.0090	0.0054 *
Moon	26934-11-04 18:14 G	11558809.05	11558809.26	11558809.50	0.0090	0.0038
Earth	26934-11-04 19:26 G	11558809.10	11558809.31	11558809.56	0.0090	0.0042 *
Moon	26935-11-07 08:09 G	11559176.62	11559176.84	11559177.11	0.0090	0.0037
Earth	26935-11-07 08:38 G	11559176.64	11559176.86	11559177.12	0.0090	0.0033 *
Earth	26936-11-08 21:50 G	11559544.17	11559544.41	11559544.67	0.0090	0.0024
Moon	26936-11-08 23:02 G	11559544.22	11559544.46	11559544.71	0.0090	0.0020 *
Mars	26937-03-12 01:55 G	11559667.34	11559667.58	11559667.86	0.0090	0.0035
Moon	26937-11-11 08:24 G	11559911.61	11559911.85	11559912.13	0.0090	0.0020
Earth	26937-11-11 11:02 G	11559911.71	11559911.96	11559912.22	0.0090	0.0015 *
Earth	26938-11-14 00:00 G	11560279.24	11560279.50	11560279.76	0.0090	0.0006



Moon	26938-11-14 03:21 G	11560279.38	11560279.64	11560279.89	0.0090	0.0002	*
Mars	26939-02-03 12:57 G	11560360.79	11560361.04	11560361.32	0.0090	0.0032	
Moon	26939-11-16 09:36 G	11560646.64	11560646.90	11560647.17	0.0090	0.0002	
Earth	26939-11-16 12:57 G	11560646.79	11560647.04	11560647.30	0.0090	0.0004	*
Earth	26940-11-18 01:55 G	11561014.32	11561014.58	11561014.84	0.0090	0.0012	
Moon	26940-11-18 05:31 G	11561014.48	11561014.73	11561014.99	0.0090	0.0017	*
Moon	26941-11-20 11:31 G	11561381.74	11561381.98	11561382.24	0.0089	0.0017	
Earth	26941-11-20 14:38 G	11561381.86	11561382.11	11561382.36	0.0089	0.0021	*
Earth	26942-11-23 03:21 G	11561749.40	11561749.64	11561749.89	0.0089	0.0030	
Moon	26942-11-23 05:45 G	11561749.51	11561749.74	11561750.00	0.0089	0.0035	*
Moon	26943-11-25 14:53 G	11562116.89	11562117.12	11562117.35	0.0089	0.0034	
Earth	26943-11-25 16:05 G	11562116.95	11562117.17	11562117.42	0.0089	0.0039	*
Earth	26944-11-27 04:33 G	11562484.49	11562484.69	11562484.93	0.0089	0.0048	
Moon	26944-11-27 04:33 G	11562484.49	11562484.69	11562484.93	0.0089	0.0052	*
Earth	26945-11-29 17:45 G	11562852.05	11562852.24	11562852.45	0.0089	0.0056	
Moon	26945-11-29 18:29 G	11562852.07	11562852.27	11562852.48	0.0089	0.0052	*
Moon	26946-12-02 04:48 G	11563219.53	11563219.70	11563219.87	0.0089	0.0069	
Earth	26946-12-02 06:29 G	11563219.61	11563219.77	11563219.97	0.0089	0.0065	*
Earth	26947-12-04 19:41 G	11563587.18	11563587.32	11563587.47	0.0089	0.0073	
Moon	26947-12-04 22:19 G	11563587.29	11563587.43	11563587.61	0.0089	0.0069	*
Moon	26948-12-06 05:02 G	11563954.66	11563954.71	11563954.80	0.0089	0.0086	
Earth	26948-12-06 08:09 G	11563954.76	11563954.84	11563954.97	0.0089	0.0081	*
Moon	26949-12-09 00:43 G	11564322.47	11564322.53	11564322.63	0.0089	0.0085	
Venus	26970-09-08 02:53 G	11571900.49	11571900.62	11571900.76	0.0089	0.0070	
Venus	26971-04-21 15:50 G	11572125.98	11572126.16	11572126.34	0.0089	0.0051	
Venus	26971-12-03 04:33 G	11572351.50	11572351.69	11572351.91	0.0089	0.0033	
Venus	26972-07-15 17:45 G	11572577.03	11572577.24	11572577.46	0.0089	0.0013	
Venus	26973-02-26 06:43 G	11572802.56	11572802.78	11572803.00	0.0089	0.0006	
Venus	26973-10-09 19:41 G	11573028.11	11573028.32	11573028.53	0.0089	0.0025	
Venus	26974-05-23 08:24 G	11573253.67	11573253.85	11573254.05	0.0089	0.0044	

Venus	26975-01-03 21:21 G	11573479.25	11573479.39	11573479.56	0.0089	0.0063
Venus	26975-08-17 09:50 G	11573704.85	11573704.91	11573705.02	0.0089	0.0082
Mercury	26983-12-16 06:00 G	11576747.71	11576747.75	11576747.80	0.0088	0.0083
Mercury	26984-03-13 07:26 G	11576835.75	11576835.81	11576835.89	0.0088	0.0076
Mercury	26984-06-09 08:53 G	11576923.80	11576923.87	11576923.97	0.0088	0.0069
Mercury	26984-09-05 10:33 G	11577011.85	11577011.94	11577012.05	0.0088	0.0061
Mercury	26984-12-02 12:00 G	11577099.90	11577100.00	11577100.12	0.0088	0.0055
Mercury	26985-02-28 13:41 G	11577187.96	11577188.07	11577188.20	0.0088	0.0047
Mercury	26985-05-27 15:21 G	11577276.02	11577276.14	11577276.27	0.0088	0.0040
Mercury	26985-08-23 17:02 G	11577364.08	11577364.21	11577364.34	0.0088	0.0032
Mercury	26985-11-19 18:29 G	11577452.14	11577452.27	11577452.41	0.0088	0.0025
Mercury	26986-02-15 20:09 G	11577540.20	11577540.34	11577540.48	0.0088	0.0018
Mercury	26986-05-14 21:50 G	11577628.27	11577628.41	11577628.55	0.0088	0.0011
Mercury	26986-08-10 23:31 G	11577716.33	11577716.48	11577716.62	0.0088	0.0004
Mercury	26986-11-07 00:57 G	11577804.40	11577804.54	11577804.69	0.0088	0.0005
Mercury	26987-02-03 02:38 G	11577892.47	11577892.61	11577892.75	0.0088	0.0012
Mercury	26987-05-02 04:19 G	11577980.54	11577980.68	11577980.82	0.0088	0.0019
Mercury	26987-07-29 05:45 G	11578068.61	11578068.74	11578068.89	0.0088	0.0027
Mercury	26987-10-25 07:41 G	11578156.68	11578156.82	11578156.95	0.0088	0.0034
Mercury	26988-01-21 09:07 G	11578244.76	11578244.88	11578245.01	0.0088	0.0041
Mercury	26988-04-18 10:48 G	11578332.83	11578332.95	11578333.07	0.0088	0.0049
Mercury	26988-07-15 12:14 G	11578420.91	11578421.01	11578421.13	0.0088	0.0056
Mercury	26988-10-11 14:09 G	11578508.99	11578509.09	11578509.19	0.0088	0.0063
Mercury	26989-01-07 15:36 G	11578597.08	11578597.15	11578597.25	0.0088	0.0071
Mercury	26989-04-05 17:31 G	11578685.17	11578685.23	11578685.30	0.0088	0.0078
Mercury	26989-07-02 18:57 G	11578773.27	11578773.29	11578773.33	0.0088	0.0086

# 28TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 28th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	27011-04-24 19:55	G	11586738.33	11586738.33	11586738.35	0.0088	0.0088	
Moon	27011-04-24 23:02	G	11586738.46	11586738.46	11586738.49	0.0088	0.0088	
Moon	27012-04-26 02:09	G	11587105.52	11587105.59	11587105.73	0.0088	0.0081	
Earth	27012-04-26 06:14	G	11587105.68	11587105.76	11587105.88	0.0088	0.0080	*
Earth	27013-04-28 16:48	G	11587473.07	11587473.20	11587473.36	0.0088	0.0072	
Moon	27013-04-28 19:55	G	11587473.21	11587473.33	11587473.50	0.0088	0.0072	*
Moon	27014-05-01 00:29	G	11587840.37	11587840.52	11587840.71	0.0088	0.0065	
Earth	27014-05-01 03:21	G	11587840.48	11587840.64	11587840.83	0.0088	0.0064	*
Earth	27015-05-03 13:26	G	11588207.88	11588208.06	11588208.28	0.0088	0.0056	
Moon	27015-05-03 15:36	G	11588207.96	11588208.15	11588208.37	0.0088	0.0055	*
Moon	27016-05-04 23:31	G	11588575.29	11588575.48	11588575.71	0.0088	0.0048	
Earth	27016-05-04 23:45	G	11588575.30	11588575.49	11588575.73	0.0088	0.0048	*
Moon	27017-05-07 09:36	G	11588942.68	11588942.90	11588943.16	0.0088	0.0039	
Earth	27017-05-07 10:33	G	11588942.71	11588942.94	11588943.17	0.0088	0.0039	*
Earth	27018-05-09 20:38	G	11589310.13	11589310.36	11589310.61	0.0088	0.0031	
Moon	27018-05-09 22:19	G	11589310.21	11589310.43	11589310.67	0.0088	0.0032	*
Mars	27018-12-21 14:53	G	11589535.91	11589536.12	11589536.39	0.0088	0.0064	
Moon	27019-05-12 03:50	G	11589677.42	11589677.66	11589677.93	0.0088	0.0023	
Earth	27019-05-12 06:57	G	11589677.56	11589677.79	11589678.05	0.0088	0.0023	*
Earth	27020-05-13 17:31	G	11590044.98	11590045.23	11590045.49	0.0088	0.0014	
Moon	27020-05-13 20:53	G	11590045.12	11590045.37	11590045.62	0.0088	0.0015	*

Mars	27020-11-17 03:07 G	11590232.30	11590232.63	11590232.99	0.0088	0.0014
Moon	27021-05-16 00:14 G	11590412.26	11590412.51	11590412.77	0.0088	0.0005
Earth	27021-05-16 04:05 G	11590412.41	11590412.67	11590412.93	0.0088	0.0006 *
Earth	27022-05-18 14:24 G	11590779.85	11590780.10	11590780.36	0.0088	0.0003
Moon	27022-05-18 17:31 G	11590779.97	11590780.23	11590780.50	0.0088	0.0003 *
Moon	27023-05-20 22:19 G	11591147.19	11591147.43	11591147.68	0.0088	0.0013
Earth	27023-05-21 00:57 G	11591147.28	11591147.54	11591147.79	0.0088	0.0011 *
Earth	27024-05-22 11:17 G	11591514.73	11591514.97	11591515.23	0.0088	0.0020
Moon	27024-05-22 13:12 G	11591514.79	11591515.05	11591515.31	0.0088	0.0018 *
Earth	27025-05-24 22:05 G	11591882.18	11591882.42	11591882.67	0.0088	0.0028
Moon	27025-05-24 22:05 G	11591882.19	11591882.42	11591882.66	0.0088	0.0029 *
Moon	27026-05-27 07:41 G	11592249.57	11592249.82	11592250.06	0.0088	0.0035
Earth	27026-05-27 08:09 G	11592249.63	11592249.84	11592250.10	0.0088	0.0037 *
Earth	27027-05-29 18:57 G	11592617.08	11592617.29	11592617.52	0.0088	0.0045
Moon	27027-05-29 20:53 G	11592617.18	11592617.37	11592617.60	0.0088	0.0047 *
Moon	27028-05-31 01:55 G	11592984.40	11592984.58	11592984.81	0.0088	0.0053
Earth	27028-05-31 05:31 G	11592984.54	11592984.73	11592984.95	0.0088	0.0053 *
Earth	27029-06-02 15:36 G	11593352.00	11593352.15	11593352.36	0.0088	0.0062
Moon	27029-06-02 19:26 G	11593352.14	11593352.31	11593352.50	0.0088	0.0063 *
Moon	27030-06-04 22:48 G	11593719.31	11593719.45	11593719.63	0.0088	0.0068
Earth	27030-06-05 02:24 G	11593719.47	11593719.60	11593719.78	0.0088	0.0070 *
Earth	27031-06-07 12:43 G	11594086.94	11594087.03	11594087.18	0.0088	0.0078
Moon	27031-06-07 15:50 G	11594087.07	11594087.16	11594087.29	0.0088	0.0079 *
Moon	27032-06-08 21:21 G	11594454.34	11594454.39	11594454.48	0.0088	0.0084
Earth	27032-06-08 23:31 G	11594454.45	11594454.48	11594454.56	0.0088	0.0086 *
Venus	27053-06-07 00:57 G	11602122.51	11602122.54	11602122.62	0.0089	0.0086
Venus	27054-01-18 14:09 G	11602347.96	11602348.09	11602348.25	0.0089	0.0067
Venus	27054-09-01 03:21 G	11602573.46	11602573.64	11602573.83	0.0089	0.0048
Venus	27055-04-14 16:33 G	11602798.98	11602799.19	11602799.40	0.0089	0.0029
Venus	27055-11-26 05:45 G	11603024.52	11603024.74	11603024.96	0.0089	0.0010

Venus	27056-07-08 18:43 G	11603250.06	11603250.28	11603250.50	0.0089	0.0009
Venus	27057-02-19 07:41 G	11603475.61	11603475.82	11603476.03	0.0089	0.0028
Venus	27057-10-02 20:38 G	11603701.18	11603701.36	11603701.55	0.0089	0.0047
Venus	27058-05-16 09:36 G	11603926.77	11603926.90	11603927.06	0.0089	0.0066
Venus	27058-12-27 22:33 G	11604152.40	11604152.44	11604152.52	0.0089	0.0085
Mercury	27067-09-06 07:12 G	11607326.78	11607326.80	11607326.86	0.0089	0.0087
Mercury	27067-12-03 10:19 G	11607414.86	11607414.93	11607415.03	0.0089	0.0077
Mercury	27068-02-29 13:12 G	11607502.95	11607503.05	11607503.18	0.0089	0.0068
Mercury	27068-05-27 16:19 G	11607591.05	11607591.18	11607591.32	0.0089	0.0058
Mercury	27068-08-23 19:12 G	11607679.16	11607679.30	11607679.46	0.0089	0.0049
Mercury	27068-11-19 22:19 G	11607767.27	11607767.43	11607767.59	0.0089	0.0039
Mercury	27069-02-16 00:57 G	11607855.38	11607855.54	11607855.72	0.0089	0.0031
Mercury	27069-05-15 03:50 G	11607943.50	11607943.66	11607943.84	0.0089	0.0022
Mercury	27069-08-11 06:57 G	11608031.62	11608031.79	11608031.97	0.0089	0.0011
Mercury	27069-11-07 09:50 G	11608119.73	11608119.91	11608120.09	0.0089	0.0002
Mercury	27070-02-03 12:43 G	11608207.85	11608208.03	11608208.20	0.0089	0.0007
Mercury	27070-05-02 15:36 G	11608295.97	11608296.15	11608296.32	0.0089	0.0016
Mercury	27070-07-29 18:14 G	11608384.10	11608384.26	11608384.43	0.0089	0.0026
Mercury	27070-10-25 20:53 G	11608472.22	11608472.37	11608472.54	0.0089	0.0035
Mercury	27071-01-21 23:45 G	11608560.35	11608560.49	11608560.65	0.0089	0.0044
Mercury	27071-04-20 02:24 G	11608648.48	11608648.60	11608648.76	0.0089	0.0054
Mercury	27071-07-17 05:17 G	11608736.61	11608736.72	11608736.86	0.0089	0.0062
Mercury	27071-10-13 07:55 G	11608824.74	11608824.83	11608824.95	0.0089	0.0072
Mercury	27072-01-09 10:48 G	11608912.89	11608912.95	11608913.04	0.0089	0.0080
Mercury	27072-04-06 13:41 G	11609001.07	11609001.07	11609001.08	0.0089	0.0089
Jupiter	27088-12-13 01:12 G	11615095.22	11615095.55	11615095.95	0.0089	0.0064
Earth	27094-10-26 23:45 G	11617239.41	11617239.49	11617239.62	0.0090	0.0082
Moon	27094-10-27 03:21 G	11617239.52	11617239.64	11617239.77	0.0090	0.0078 *
Moon	27095-10-29 10:19 G	11617606.81	11617606.93	11617607.08	0.0090	0.0076
Earth	27095-10-29 12:57 G	11617606.91	11617607.04	11617607.21	0.0090	0.0073 *

Earth	27096-10-31 02:09 G	11617974.41	11617974.59	11617974.77	0.0090	0.0064
Moon	27096-10-31 03:07 G	11617974.46	11617974.63	11617974.85	0.0090	0.0061 *
Moon	27097-11-02 14:24 G	11618341.93	11618342.10	11618342.31	0.0090	0.0059
Earth	27097-11-02 14:38 G	11618341.93	11618342.11	11618342.34	0.0090	0.0056 *
Moon	27098-11-05 03:21 G	11618709.42	11618709.64	11618709.89	0.0090	0.0044
Earth	27098-11-05 03:50 G	11618709.46	11618709.66	11618709.90	0.0090	0.0047 *
Earth	27099-11-07 17:02 G	11619076.99	11619077.21	11619077.46	0.0090	0.0038
Moon	27099-11-07 19:12 G	11619077.09	11619077.30	11619077.54	0.0090	0.0041 *
Mars	27100-10-27 17:17 G	11619431.02	11619431.22	11619431.46	0.0089	0.0057
Moon	27100-11-10 03:21 G	11619444.40	11619444.64	11619444.91	0.0089	0.0026
Earth	27100-11-10 06:14 G	11619444.53	11619444.76	11619445.02	0.0089	0.0029 *
Earth	27101-11-12 19:12 G	11619812.06	11619812.30	11619812.57	0.0089	0.0020
Moon	27101-11-12 22:33 G	11619812.21	11619812.44	11619812.70	0.0089	0.0022 *
Mars	27102-09-21 07:12 G	11620124.52	11620124.80	11620125.09	0.0089	0.0010
Moon	27102-11-15 05:02 G	11620179.46	11620179.71	11620179.97	0.0089	0.0007
Earth	27102-11-15 08:38 G	11620179.61	11620179.86	11620180.12	0.0089	0.0010 *
Earth	27103-11-17 21:50 G	11620547.15	11620547.41	11620547.67	0.0089	0.0001
Moon	27103-11-18 01:12 G	11620547.29	11620547.55	11620547.81	0.0089	0.0003 *
Mars	27104-08-14 18:00 G	11620818.12	11620818.25	11620818.42	0.0089	0.0076
Moon	27104-11-19 07:41 G	11620914.57	11620914.82	11620915.07	0.0089	0.0010
Earth	27104-11-19 10:33 G	11620914.69	11620914.94	11620915.21	0.0089	0.0008 *
Earth	27105-11-21 23:17 G	11621282.23	11621282.47	11621282.74	0.0089	0.0018
Moon	27105-11-22 00:57 G	11621282.29	11621282.54	11621282.82	0.0089	0.0016 *
Moon	27106-11-24 11:45 G	11621649.76	11621649.99	11621650.23	0.0089	0.0028
Earth	27106-11-24 12:14 G	11621649.78	11621650.01	11621650.27	0.0089	0.0027 *
Moon	27107-11-27 00:43 G	11622017.30	11622017.53	11622017.79	0.0089	0.0034
Earth	27107-11-27 00:57 G	11622017.32	11622017.54	11622017.80	0.0089	0.0036 *
Earth	27108-11-28 13:41 G	11622384.87	11622385.07	11622385.31	0.0089	0.0045
Moon	27108-11-28 15:36 G	11622384.96	11622385.15	11622385.39	0.0089	0.0047 *
Moon	27109-12-01 00:14 G	11622752.30	11622752.51	11622752.73	0.0089	0.0052

Earth	27109-12-01 02:24 G	11622752.42	11622752.60	11622752.83	0.0089	0.0054 *
Earth	27110-12-03 15:50 G	11623119.97	11623120.16	11623120.34	0.0089	0.0062
Moon	27110-12-03 18:43 G	11623120.11	11623120.28	11623120.47	0.0089	0.0063 *
Moon	27111-12-06 00:14 G	11623487.38	11623487.51	11623487.70	0.0089	0.0070
Earth	27111-12-06 04:19 G	11623487.54	11623487.68	11623487.85	0.0089	0.0071 *
Earth	27112-12-07 16:33 G	11623855.10	11623855.19	11623855.34	0.0089	0.0080
Moon	27112-12-07 20:09 G	11623855.25	11623855.34	11623855.48	0.0089	0.0080 *
Moon	27113-12-10 02:38 G	11624222.58	11624222.61	11624222.68	0.0089	0.0088
Earth	27113-12-10 05:45 G	11624222.71	11624222.74	11624222.81	0.0089	0.0088
Venus	27134-12-12 13:55 G	11631894.97	11631895.08	11631895.18	0.0089	0.0077
Venus	27135-07-26 02:24 G	11632120.45	11632120.60	11632120.78	0.0089	0.0059
Venus	27136-03-07 15:21 G	11632345.96	11632346.14	11632346.35	0.0089	0.0040
Venus	27136-10-19 04:33 G	11632571.48	11632571.69	11632571.91	0.0089	0.0021
Venus	27137-06-01 17:31 G	11632797.01	11632797.23	11632797.45	0.0089	0.0002
Venus	27138-01-13 06:14 G	11633022.56	11633022.76	11633022.99	0.0089	0.0018
Venus	27138-08-26 18:57 G	11633248.11	11633248.29	11633248.51	0.0089	0.0037
Venus	27139-04-09 08:09 G	11633473.68	11633473.84	11633474.02	0.0089	0.0055
Venus	27139-11-20 21:07 G	11633699.27	11633699.38	11633699.51	0.0089	0.0074
Mercury	27148-06-17 04:05 G	11636830.65	11636830.67	11636830.70	0.0088	0.0086
Mercury	27148-09-13 05:31 G	11636918.68	11636918.73	11636918.80	0.0088	0.0079
Mercury	27148-12-10 06:57 G	11637006.73	11637006.79	11637006.88	0.0088	0.0073
Mercury	27149-03-08 08:38 G	11637094.77	11637094.86	11637094.96	0.0088	0.0065
Mercury	27149-06-04 10:05 G	11637182.83	11637182.92	11637183.04	0.0088	0.0058
Mercury	27149-08-31 11:45 G	11637270.88	11637270.99	11637271.11	0.0088	0.0051
Mercury	27149-11-27 13:26 G	11637358.94	11637359.06	11637359.18	0.0088	0.0044
Mercury	27150-02-23 14:53 G	11637447.00	11637447.12	11637447.26	0.0088	0.0037
Mercury	27150-05-22 16:33 G	11637535.06	11637535.19	11637535.33	0.0088	0.0029
Mercury	27150-08-18 18:00 G	11637623.12	11637623.25	11637623.40	0.0088	0.0023
Mercury	27150-11-14 19:41 G	11637711.19	11637711.32	11637711.47	0.0088	0.0015
Mercury	27151-02-10 21:21 G	11637799.25	11637799.39	11637799.53	0.0088	0.0007

Mercury	27151-05-09 23:02 G	11637887.32	11637887.46	11637887.60	0.0088	0.0000
Mercury	27151-08-06 00:43 G	11637975.38	11637975.53	11637975.67	0.0088	0.0008
Mercury	27151-11-02 02:09 G	11638063.45	11638063.59	11638063.73	0.0088	0.0015
Mercury	27152-01-29 03:50 G	11638151.52	11638151.66	11638151.80	0.0088	0.0022
Mercury	27152-04-26 05:31 G	11638239.59	11638239.73	11638239.86	0.0088	0.0029
Mercury	27152-07-23 06:57 G	11638327.67	11638327.79	11638327.93	0.0088	0.0037
Mercury	27152-10-19 08:38 G	11638415.74	11638415.86	11638415.99	0.0088	0.0044
Mercury	27153-01-15 10:05 G	11638503.82	11638503.92	11638504.05	0.0088	0.0052
Mercury	27153-04-13 11:45 G	11638591.90	11638591.99	11638592.11	0.0088	0.0060
Mercury	27153-07-10 13:41 G	11638679.98	11638680.07	11638680.17	0.0088	0.0067
Mercury	27153-10-06 15:07 G	11638768.07	11638768.13	11638768.22	0.0088	0.0074
Mercury	27154-01-02 17:02 G	11638856.16	11638856.21	11638856.26	0.0088	0.0082
Earth	27176-04-26 16:48 G	11647006.15	11647006.20	11647006.27	0.0088	0.0085
Moon	27177-04-29 00:57 G	11647373.42	11647373.54	11647373.70	0.0088	0.0073
Earth	27177-04-29 03:36 G	11647373.53	11647373.65	11647373.77	0.0088	0.0077 *
Earth	27178-05-01 13:41 G	11647740.92	11647741.07	11647741.24	0.0088	0.0069
Moon	27178-05-01 14:38 G	11647740.98	11647741.11	11647741.27	0.0088	0.0073 *
Moon	27179-05-03 23:45 G	11648108.32	11648108.49	11648108.70	0.0088	0.0057
Earth	27179-05-04 00:00 G	11648108.34	11648108.50	11648108.70	0.0088	0.0061 *
Moon	27180-05-05 08:53 G	11648475.69	11648475.87	11648476.09	0.0088	0.0057
Earth	27180-05-05 10:19 G	11648475.75	11648475.93	11648476.16	0.0088	0.0053 *
Earth	27181-05-07 21:07 G	11648843.16	11648843.38	11648843.61	0.0088	0.0044
Moon	27181-05-07 23:31 G	11648843.26	11648843.48	11648843.71	0.0088	0.0040 *
Moon	27182-05-10 04:19 G	11649210.46	11649210.68	11649210.93	0.0088	0.0040
Earth	27182-05-10 07:12 G	11649210.59	11649210.80	11649211.06	0.0088	0.0036 *
Earth	27183-05-12 17:45 G	11649578.00	11649578.24	11649578.49	0.0088	0.0027
Moon	27183-05-12 21:36 G	11649578.15	11649578.40	11649578.65	0.0088	0.0022 *
Moon	27184-05-14 00:43 G	11649945.30	11649945.53	11649945.79	0.0088	0.0023
Earth	27184-05-14 04:19 G	11649945.43	11649945.68	11649945.93	0.0088	0.0018 *
Mars	27184-07-01 10:33 G	11649993.61	11649993.94	11649994.30	0.0088	0.0012



Earth	27185-05-16 14:24 G	11650312.85	11650313.10	11650313.37	0.0088	0.0010
Moon	27185-05-16 17:45 G	11650312.98	11650313.24	11650313.51	0.0088	0.0005 *
Moon	27186-05-18 23:02 G	11650680.21	11650680.46	11650680.71	0.0088	0.0006
Earth	27186-05-19 00:57 G	11650680.28	11650680.54	11650680.80	0.0088	0.0001 *
Mars	27186-05-28 21:36 G	11650690.21	11650690.40	11650690.67	0.0088	0.0066
Earth	27187-05-21 11:17 G	11651047.71	11651047.97	11651048.23	0.0088	0.0008
Moon	27187-05-21 11:45 G	11651047.74	11651047.99	11651048.27	0.0088	0.0012 *
Earth	27188-05-22 21:50 G	11651415.15	11651415.41	11651415.66	0.0088	0.0016
Moon	27188-05-22 21:50 G	11651415.17	11651415.41	11651415.66	0.0088	0.0012 *
Moon	27189-05-25 06:14 G	11651782.51	11651782.76	11651783.01	0.0088	0.0029
Earth	27189-05-25 07:55 G	11651782.60	11651782.83	11651783.09	0.0088	0.0025 *
Earth	27190-05-27 18:14 G	11652150.04	11652150.26	11652150.52	0.0088	0.0034
Moon	27190-05-27 21:21 G	11652150.15	11652150.39	11652150.63	0.0088	0.0029 *
Moon	27191-05-30 01:26 G	11652517.36	11652517.56	11652517.81	0.0088	0.0047
Earth	27191-05-30 05:02 G	11652517.50	11652517.71	11652517.95	0.0088	0.0042 *
Earth	27192-05-31 15:21 G	11652884.95	11652885.14	11652885.37	0.0088	0.0051
Moon	27192-05-31 19:12 G	11652885.10	11652885.30	11652885.54	0.0088	0.0046 *
Moon	27193-06-02 23:17 G	11653252.30	11653252.47	11653252.65	0.0088	0.0063
Earth	27193-06-03 02:09 G	11653252.42	11653252.59	11653252.80	0.0088	0.0059 *
Earth	27194-06-05 12:43 G	11653619.88	11653620.03	11653620.20	0.0088	0.0067
Moon	27194-06-05 15:36 G	11653619.98	11653620.15	11653620.35	0.0088	0.0063 *
Moon	27195-06-07 21:50 G	11653987.32	11653987.41	11653987.52	0.0088	0.0080
Earth	27195-06-07 22:48 G	11653987.36	11653987.45	11653987.61	0.0088	0.0076 *
Moon	27196-06-09 09:50 G	11654354.83	11654354.91	11654355.05	0.0088	0.0080
Earth	27196-06-09 09:36 G	11654354.85	11654354.90	11654355.00	0.0088	0.0084 *
Venus	27218-04-23 00:57 G	11662342.43	11662342.54	11662342.67	0.0089	0.0074
Venus	27218-12-04 13:41 G	11662567.92	11662568.07	11662568.27	0.0089	0.0056
Venus	27219-07-18 02:53 G	11662793.44	11662793.62	11662793.84	0.0089	0.0037
Venus	27220-02-28 16:05 G	11663018.96	11663019.17	11663019.40	0.0089	0.0018
Venus	27220-10-11 05:17 G	11663244.50	11663244.72	11663244.94	0.0089	0.0002

Venus	27221-05-24 18:14 G	11663470.06	11663470.26	11663470.49	0.0089	0.0021
Venus	27222-01-05 07:12 G	11663695.62	11663695.80	11663696.01	0.0089	0.0040
Venus	27222-08-18 20:09 G	11663921.19	11663921.34	11663921.52	0.0089	0.0059
Venus	27223-04-01 09:36 G	11664146.79	11664146.90	11664147.01	0.0089	0.0077
Mercury	27232-06-03 06:00 G	11667497.71	11667497.75	11667497.83	0.0089	0.0083
Mercury	27232-08-30 09:21 G	11667585.79	11667585.89	11667585.99	0.0089	0.0073
Mercury	27232-11-26 12:00 G	11667673.89	11667674.00	11667674.14	0.0089	0.0064
Mercury	27233-02-22 15:07 G	11667762.00	11667762.13	11667762.28	0.0089	0.0054
Mercury	27233-05-21 18:00 G	11667850.11	11667850.25	11667850.41	0.0089	0.0045
Mercury	27233-08-17 21:07 G	11667938.22	11667938.38	11667938.55	0.0089	0.0035
Mercury	27233-11-14 00:00 G	11668026.33	11668026.50	11668026.67	0.0089	0.0026
Mercury	27234-02-10 02:53 G	11668114.45	11668114.62	11668114.80	0.0089	0.0017
Mercury	27234-05-09 05:45 G	11668202.57	11668202.74	11668202.92	0.0089	0.0008
Mercury	27234-08-05 08:38 G	11668290.69	11668290.86	11668291.04	0.0089	0.0003
Mercury	27234-11-01 11:31 G	11668378.81	11668378.98	11668379.16	0.0089	0.0011
Mercury	27235-01-28 14:24 G	11668466.93	11668467.10	11668467.27	0.0089	0.0020
Mercury	27235-04-26 17:17 G	11668555.05	11668555.22	11668555.38	0.0089	0.0030
Mercury	27235-07-23 19:55 G	11668643.18	11668643.33	11668643.49	0.0089	0.0039
Mercury	27235-10-19 22:33 G	11668731.31	11668731.44	11668731.60	0.0089	0.0048
Mercury	27236-01-16 01:26 G	11668819.44	11668819.56	11668819.70	0.0089	0.0057
Mercury	27236-04-13 04:05 G	11668907.57	11668907.67	11668907.80	0.0089	0.0067
Mercury	27236-07-10 06:57 G	11668995.71	11668995.79	11668995.89	0.0089	0.0075
Mercury	27236-10-06 09:36 G	11669083.86	11669083.90	11669083.97	0.0089	0.0085
Jupiter	27255-02-12 13:26 G	11675786.58	11675787.06	11675787.60	0.0089	0.0022
Moon	27258-10-27 06:43 G	11677139.78	11677139.78	11677139.81	0.0090	0.0089
Earth	27258-10-27 08:24 G	11677139.81	11677139.85	11677139.92	0.0090	0.0087 *
Earth	27259-10-29 20:53 G	11677507.27	11677507.37	11677507.52	0.0090	0.0079
Moon	27259-10-29 22:05 G	11677507.30	11677507.42	11677507.59	0.0090	0.0076 *
Earth	27260-10-31 09:50 G	11677874.77	11677874.91	11677875.10	0.0090	0.0070
Moon	27260-10-31 10:19 G	11677874.81	11677874.93	11677875.10	0.0090	0.0073 *

Moon	27261-11-02 21:07 G	11678242.20	11678242.38	11678242.60	0.0090	0.0059
Earth	27261-11-02 23:02 G	11678242.29	11678242.46	11678242.67	0.0090	0.0061 *
Earth	27262-11-05 12:00 G	11678609.80	11678610.00	11678610.23	0.0090	0.0052
Moon	27262-11-05 14:24 G	11678609.91	11678610.10	11678610.31	0.0090	0.0055 *
Moon	27263-11-07 21:21 G	11678977.18	11678977.39	11678977.65	0.0090	0.0040
Earth	27263-11-08 00:57 G	11678977.33	11678977.54	11678977.78	0.0090	0.0043 *
Mars	27264-06-12 08:24 G	11679194.74	11679194.85	11679195.01	0.0090	0.0079
Earth	27264-11-09 13:41 G	11679344.85	11679345.07	11679345.33	0.0090	0.0034
Moon	27264-11-09 17:17 G	11679345.00	11679345.22	11679345.47	0.0090	0.0037 *
Moon	27265-11-11 23:31 G	11679712.24	11679712.48	11679712.74	0.0090	0.0021
Earth	27265-11-12 03:21 G	11679712.39	11679712.64	11679712.89	0.0090	0.0024 *
Mars	27266-05-06 20:38 G	11679888.09	11679888.36	11679888.65	0.0090	0.0013
Earth	27266-11-14 16:19 G	11680079.93	11680080.18	11680080.44	0.0089	0.0015
Moon	27266-11-14 19:12 G	11680080.05	11680080.30	11680080.57	0.0089	0.0019 *
Moon	27267-11-17 03:21 G	11680447.39	11680447.64	11680447.89	0.0089	0.0002
Earth	27267-11-17 05:17 G	11680447.47	11680447.72	11680447.98	0.0089	0.0006 *
Mars	27268-03-30 09:21 G	11680581.67	11680581.89	11680582.12	0.0089	0.0053
Earth	27268-11-18 18:29 G	11680815.01	11680815.27	11680815.53	0.0089	0.0004
Moon	27268-11-18 19:55 G	11680815.06	11680815.33	11680815.60	0.0089	0.0000 *
Earth	27269-11-21 07:26 G	11681182.56	11681182.81	11681183.07	0.0089	0.0013
Moon	27269-11-21 07:55 G	11681182.58	11681182.83	11681183.07	0.0089	0.0017 *
Moon	27270-11-23 18:43 G	11681550.03	11681550.28	11681550.56	0.0089	0.0020
Earth	27270-11-23 20:24 G	11681550.11	11681550.35	11681550.61	0.0089	0.0023 *
Earth	27271-11-26 09:07 G	11681917.65	11681917.88	11681918.13	0.0089	0.0032
Moon	27271-11-26 11:17 G	11681917.75	11681917.97	11681918.21	0.0089	0.0036 *
Moon	27272-11-27 18:43 G	11682285.05	11682285.28	11682285.52	0.0089	0.0037
Earth	27272-11-27 22:19 G	11682285.20	11682285.43	11682285.66	0.0089	0.0041 *
Earth	27273-11-30 10:19 G	11682652.75	11682652.93	11682653.17	0.0089	0.0051
Moon	27273-11-30 13:55 G	11682652.90	11682653.08	11682653.31	0.0089	0.0055 *
Moon	27274-12-02 19:55 G	11683020.14	11683020.33	11683020.55	0.0089	0.0055

Earth	27274-12-02 23:17 G	11683020.30	11683020.47	11683020.69	0.0089	0.0060	*
Earth	27275-12-05 12:29 G	11683387.85	11683388.02	11683388.19	0.0089	0.0068	
Moon	27275-12-05 15:07 G	11683388.00	11683388.13	11683388.31	0.0089	0.0073	*
Moon	27276-12-06 22:48 G	11683755.32	11683755.45	11683755.61	0.0089	0.0073	
Earth	27276-12-07 01:12 G	11683755.42	11683755.55	11683755.69	0.0089	0.0077	*
Earth	27277-12-09 13:26 G	11684123.01	11684123.06	11684123.16	0.0089	0.0086	
Venus	27299-03-15 23:45 G	11691889.45	11691889.49	11691889.58	0.0089	0.0085	
Venus	27299-10-27 12:57 G	11692114.91	11692115.04	11692115.20	0.0089	0.0066	
Venus	27300-06-10 02:09 G	11692340.41	11692340.59	11692340.78	0.0089	0.0047	
Venus	27301-01-21 15:07 G	11692565.92	11692566.13	11692566.34	0.0089	0.0028	
Venus	27301-09-04 03:50 G	11692791.44	11692791.66	11692791.88	0.0089	0.0009	
Venus	27302-04-17 16:48 G	11693016.98	11693017.20	11693017.42	0.0089	0.0009	
Venus	27302-11-29 05:31 G	11693242.53	11693242.73	11693242.95	0.0089	0.0029	
Venus	27303-07-12 18:14 G	11693468.09	11693468.26	11693468.47	0.0089	0.0048	
Venus	27304-02-23 07:26 G	11693693.67	11693693.81	11693693.96	0.0089	0.0066	
Venus	27304-10-05 20:09 G	11693919.29	11693919.34	11693919.41	0.0089	0.0085	
Mercury	27313-03-15 03:36 G	11697001.61	11697001.65	11697001.70	0.0088	0.0084	
Mercury	27313-06-11 05:02 G	11697089.65	11697089.71	11697089.79	0.0088	0.0077	
Mercury	27313-09-07 06:43 G	11697177.70	11697177.78	11697177.87	0.0088	0.0069	
Mercury	27313-12-04 08:09 G	11697265.75	11697265.84	11697265.95	0.0088	0.0062	
Mercury	27314-03-02 09:36 G	11697353.80	11697353.90	11697354.02	0.0088	0.0056	
Mercury	27314-05-29 11:17 G	11697441.86	11697441.97	11697442.09	0.0088	0.0048	
Mercury	27314-08-25 12:57 G	11697529.92	11697530.04	11697530.17	0.0088	0.0041	
Mercury	27314-11-21 14:24 G	11697617.98	11697618.10	11697618.24	0.0088	0.0034	
Mercury	27315-02-17 16:05 G	11697706.04	11697706.17	11697706.31	0.0088	0.0026	
Mercury	27315-05-16 17:31 G	11697794.10	11697794.23	11697794.38	0.0088	0.0020	
Mercury	27315-08-12 19:12 G	11697882.16	11697882.30	11697882.44	0.0088	0.0012	
Mercury	27315-11-08 20:53 G	11697970.23	11697970.37	11697970.51	0.0088	0.0004	
Mercury	27316-02-04 22:33 G	11698058.29	11698058.44	11698058.58	0.0088	0.0004	
Mercury	27316-05-03 00:00 G	11698146.36	11698146.50	11698146.64	0.0088	0.0010	

Mercury	27316-07-30 01:41 G	11698234.43	11698234.57	11698234.71	0.0088	0.0018
Mercury	27316-10-26 03:07 G	11698322.50	11698322.63	11698322.78	0.0088	0.0025
Mercury	27317-01-22 04:48 G	11698410.57	11698410.70	11698410.84	0.0088	0.0032
Mercury	27317-04-20 06:14 G	11698498.64	11698498.76	11698498.90	0.0088	0.0040
Mercury	27317-07-17 07:55 G	11698586.72	11698586.83	11698586.96	0.0088	0.0048
Mercury	27317-10-13 09:50 G	11698674.80	11698674.91	11698675.02	0.0088	0.0055
Mercury	27318-01-09 11:17 G	11698762.88	11698762.97	11698763.08	0.0088	0.0062
Mercury	27318-04-07 13:12 G	11698850.96	11698851.05	11698851.13	0.0088	0.0070
Mercury	27318-07-04 14:24 G	11698939.05	11698939.10	11698939.18	0.0088	0.0078
Mercury	27318-09-30 16:19 G	11699027.15	11699027.18	11699027.22	0.0088	0.0085
Earth	27341-04-29 12:14 G	11707273.95	11707274.01	11707274.12	0.0088	0.0083
Moon	27341-04-29 12:43 G	11707273.96	11707274.03	11707274.16	0.0088	0.0082 *
Earth	27342-05-01 22:33 G	11707641.33	11707641.44	11707641.60	0.0088	0.0075
Moon	27342-05-02 00:00 G	11707641.39	11707641.50	11707641.63	0.0088	0.0076 *
Moon	27343-05-04 07:41 G	11708008.66	11708008.82	11708009.01	0.0088	0.0065
Earth	27343-05-04 09:36 G	11708008.74	11708008.90	11708009.07	0.0088	0.0066 *
Earth	27344-05-05 19:41 G	11708376.15	11708376.32	11708376.53	0.0088	0.0058
Moon	27344-05-05 22:33 G	11708376.28	11708376.44	11708376.65	0.0088	0.0059 *
Moon	27345-05-08 02:38 G	11708743.42	11708743.61	11708743.85	0.0088	0.0048
Earth	27345-05-08 06:29 G	11708743.57	11708743.77	11708743.99	0.0088	0.0049 *
Earth	27346-05-10 16:33 G	11709110.98	11709111.19	11709111.44	0.0088	0.0041
Moon	27346-05-10 20:09 G	11709111.13	11709111.34	11709111.58	0.0088	0.0041 *
Moon	27347-05-13 00:00 G	11709478.27	11709478.50	11709478.74	0.0088	0.0031
Earth	27347-05-13 03:21 G	11709478.41	11709478.64	11709478.89	0.0088	0.0032 *
Mars	27348-02-13 14:53 G	11709754.83	11709755.12	11709755.46	0.0088	0.0038
Earth	27348-05-14 13:41 G	11709845.83	11709846.07	11709846.33	0.0088	0.0023
Moon	27348-05-14 16:05 G	11709845.92	11709846.17	11709846.43	0.0088	0.0024 *
Moon	27349-05-16 22:33 G	11710213.20	11710213.44	11710213.69	0.0088	0.0014
Earth	27349-05-17 00:14 G	11710213.26	11710213.51	11710213.77	0.0088	0.0014 *
Mars	27350-01-10 02:38 G	11710451.33	11710451.61	11710451.95	0.0088	0.0040

Earth	27350-05-19 10:33 G	11710580.69	11710580.94	11710581.20	0.0088	0.0006
Moon	27350-05-19 10:48 G	11710580.69	11710580.95	11710581.22	0.0088	0.0006 *
Earth	27351-05-21 20:53 G	11710948.12	11710948.37	11710948.63	0.0088	0.0004
Moon	27351-05-21 22:19 G	11710948.18	11710948.43	11710948.68	0.0088	0.0004 *
Moon	27352-05-23 05:17 G	11711315.46	11711315.72	11711315.99	0.0088	0.0012
Earth	27352-05-23 07:26 G	11711315.56	11711315.81	11711316.07	0.0088	0.0012 *
Earth	27353-05-25 17:45 G	11711682.99	11711683.24	11711683.49	0.0088	0.0021
Moon	27353-05-25 20:38 G	11711683.13	11711683.36	11711683.62	0.0088	0.0022 *
Moon	27354-05-28 00:29 G	11712050.29	11712050.52	11712050.78	0.0088	0.0029
Earth	27354-05-28 04:05 G	11712050.44	11712050.67	11712050.92	0.0088	0.0030 *
Earth	27355-05-30 14:24 G	11712417.89	11712418.10	11712418.35	0.0088	0.0039
Moon	27355-05-30 18:14 G	11712418.03	11712418.26	11712418.50	0.0088	0.0038 *
Moon	27356-05-31 22:19 G	11712785.22	11712785.43	11712785.64	0.0088	0.0047
Earth	27356-06-01 00:57 G	11712785.35	11712785.54	11712785.78	0.0088	0.0048 *
Earth	27357-06-03 11:45 G	11713152.80	11713152.99	11713153.20	0.0088	0.0056
Moon	27357-06-03 13:41 G	11713152.88	11713153.07	11713153.29	0.0088	0.0056 *
Moon	27358-06-05 21:07 G	11713520.23	11713520.38	11713520.56	0.0088	0.0065
Earth	27358-06-05 22:05 G	11713520.27	11713520.42	11713520.62	0.0088	0.0065 *
Moon	27359-06-08 08:38 G	11713887.73	11713887.86	11713888.03	0.0088	0.0073
Earth	27359-06-08 09:07 G	11713887.75	11713887.88	11713888.03	0.0088	0.0073 *
Earth	27360-06-09 19:12 G	11714255.24	11714255.30	11714255.42	0.0088	0.0082
Moon	27360-06-09 20:53 G	11714255.31	11714255.37	11714255.49	0.0088	0.0082 *
Venus	27382-07-26 10:48 G	11722336.87	11722336.95	11722337.04	0.0089	0.0082
Venus	27383-03-08 23:31 G	11722562.35	11722562.48	11722562.65	0.0089	0.0064
Venus	27383-10-20 12:43 G	11722787.86	11722788.03	11722788.24	0.0089	0.0045
Venus	27384-06-02 02:09 G	11723013.39	11723013.59	11723013.81	0.0089	0.0026
Venus	27385-01-13 15:21 G	11723238.92	11723239.14	11723239.36	0.0089	0.0007
Venus	27385-08-27 04:19 G	11723464.47	11723464.68	11723464.91	0.0089	0.0013
Venus	27386-04-09 17:17 G	11723690.03	11723690.22	11723690.44	0.0089	0.0032
Venus	27386-11-21 06:14 G	11723915.60	11723915.76	11723915.96	0.0089	0.0051

Venus	27387-07-04 19:55 G	11724141.19	11724141.33	11724141.46	0.0089	0.0069
Venus	27388-02-15 08:38 G	11724366.85	11724366.86	11724366.89	0.0089	0.0088
Mercury	27396-12-03 02:09 G	11727580.59	11727580.59	11727580.59	0.0089	0.0089
Mercury	27397-03-01 05:02 G	11727668.63	11727668.71	11727668.79	0.0089	0.0079
Mercury	27397-05-28 07:41 G	11727756.73	11727756.82	11727756.95	0.0089	0.0070
Mercury	27397-08-24 10:48 G	11727844.83	11727844.95	11727845.09	0.0089	0.0061
Mercury	27397-11-20 13:41 G	11727932.94	11727933.07	11727933.23	0.0089	0.0051
Mercury	27398-02-16 16:48 G	11728021.05	11728021.20	11728021.36	0.0089	0.0041
Mercury	27398-05-15 19:41 G	11728109.16	11728109.32	11728109.49	0.0089	0.0032
Mercury	27398-08-11 22:48 G	11728197.28	11728197.45	11728197.62	0.0089	0.0022
Mercury	27398-11-08 01:41 G	11728285.40	11728285.57	11728285.75	0.0089	0.0013
Mercury	27399-02-04 04:33 G	11728373.52	11728373.69	11728373.87	0.0089	0.0004
Mercury	27399-05-03 07:26 G	11728461.64	11728461.81	11728461.99	0.0089	0.0006
Mercury	27399-07-30 10:19 G	11728549.76	11728549.93	11728550.11	0.0089	0.0015
Mercury	27399-10-26 13:12 G	11728637.88	11728638.05	11728638.22	0.0089	0.0024
Mercury	27400-01-22 16:05 G	11728726.01	11728726.17	11728726.33	0.0089	0.0033
Mercury	27400-04-20 18:57 G	11728814.13	11728814.29	11728814.44	0.0089	0.0043
Mercury	27400-07-17 21:21 G	11728902.26	11728902.39	11728902.55	0.0089	0.0052
Mercury	27400-10-14 00:14 G	11728990.40	11728990.51	11728990.65	0.0089	0.0061
Mercury	27401-01-10 02:53 G	11729078.53	11729078.62	11729078.75	0.0089	0.0070
Mercury	27401-04-08 05:45 G	11729166.68	11729166.74	11729166.83	0.0089	0.0079
Mercury	27401-07-05 08:24 G	11729254.84	11729254.85	11729254.90	0.0089	0.0088
Earth	27423-10-31 04:19 G	11737407.63	11737407.68	11737407.79	0.0090	0.0085
Moon	27423-10-31 05:31 G	11737407.65	11737407.73	11737407.86	0.0090	0.0081 *
Moon	27424-11-01 15:07 G	11737775.04	11737775.13	11737775.28	0.0090	0.0080
Earth	27424-11-01 17:31 G	11737775.12	11737775.23	11737775.39	0.0090	0.0076 *
Earth	27425-11-04 06:29 G	11738142.62	11738142.77	11738142.97	0.0090	0.0067
Moon	27425-11-04 10:05 G	11738142.75	11738142.92	11738143.11	0.0090	0.0062 *
Moon	27426-11-06 16:33 G	11738510.01	11738510.19	11738510.39	0.0090	0.0061
Earth	27426-11-06 20:09 G	11738510.14	11738510.34	11738510.54	0.0090	0.0057 *

Earth	27427-11-09 08:38 G	11738877.65	11738877.86	11738878.09	0.0090	0.0048
Moon	27427-11-09 12:29 G	11738877.80	11738878.02	11738878.25	0.0090	0.0044 *
Moon	27428-11-10 18:43 G	11739245.07	11739245.28	11739245.51	0.0090	0.0043
Earth	27428-11-10 21:36 G	11739245.18	11739245.40	11739245.65	0.0090	0.0039 *
Earth	27429-11-13 10:33 G	11739612.71	11739612.94	11739613.20	0.0090	0.0029
Moon	27429-11-13 13:26 G	11739612.81	11739613.06	11739613.32	0.0090	0.0026 *
Mars	27429-12-22 10:48 G	11739651.71	11739651.95	11739652.24	0.0090	0.0036
Moon	27430-11-15 21:50 G	11739980.19	11739980.41	11739980.67	0.0090	0.0024
Earth	27430-11-15 23:31 G	11739980.24	11739980.48	11739980.74	0.0090	0.0020 *
Mars	27431-11-15 23:02 G	11740345.21	11740345.46	11740345.74	0.0089	0.0031
Moon	27431-11-18 12:43 G	11740347.77	11740348.03	11740348.30	0.0089	0.0007
Earth	27431-11-18 12:43 G	11740347.78	11740348.03	11740348.29	0.0089	0.0010 *
Earth	27432-11-20 01:41 G	11740715.32	11740715.57	11740715.83	0.0089	0.0002
Moon	27432-11-20 02:24 G	11740715.35	11740715.60	11740715.85	0.0089	0.0004 *
Moon	27433-11-22 12:43 G	11741082.77	11741083.03	11741083.30	0.0089	0.0012
Earth	27433-11-22 14:53 G	11741082.86	11741083.12	11741083.38	0.0089	0.0009 *
Earth	27434-11-25 03:50 G	11741450.41	11741450.66	11741450.92	0.0089	0.0019
Moon	27434-11-25 06:43 G	11741450.54	11741450.78	11741451.04	0.0089	0.0015 *
Moon	27435-11-27 13:26 G	11741817.82	11741818.06	11741818.31	0.0089	0.0031
Earth	27435-11-27 16:48 G	11741817.96	11741818.20	11741818.45	0.0089	0.0028 *
Earth	27436-11-29 05:31 G	11742185.51	11742185.73	11742185.98	0.0089	0.0038
Moon	27436-11-29 09:21 G	11742185.66	11742185.89	11742186.14	0.0089	0.0035 *
Moon	27437-12-01 15:21 G	11742552.94	11742553.14	11742553.36	0.0089	0.0050
Earth	27437-12-01 18:29 G	11742553.06	11742553.27	11742553.50	0.0089	0.0047 *
Earth	27438-12-04 07:26 G	11742920.61	11742920.81	11742921.01	0.0089	0.0056
Moon	27438-12-04 09:50 G	11742920.72	11742920.91	11742921.14	0.0089	0.0055 *
Moon	27439-12-06 18:14 G	11743288.11	11743288.26	11743288.43	0.0089	0.0068
Earth	27439-12-06 19:26 G	11743288.17	11743288.31	11743288.52	0.0089	0.0066 *
Earth	27440-12-08 08:24 G	11743655.73	11743655.85	11743656.01	0.0089	0.0075
Moon	27440-12-08 08:53 G	11743655.73	11743655.87	11743656.05	0.0089	0.0072 *



Earth	27441-12-10 20:53 G	11744023.31	11744023.37	11744023.49	0.0089	0.0084
Moon	27441-12-10 21:07 G	11744023.34	11744023.38	11744023.49	0.0089	0.0086 *
Venus	27464-01-30 23:02 G	11752109.36	11752109.46	11752109.61	0.0089	0.0074
Venus	27464-09-12 12:14 G	11752334.85	11752335.01	11752335.19	0.0089	0.0055
Venus	27465-04-26 01:12 G	11752560.36	11752560.55	11752560.76	0.0089	0.0036
Venus	27465-12-07 14:24 G	11752785.88	11752786.10	11752786.31	0.0089	0.0017
Venus	27466-07-21 03:07 G	11753011.42	11753011.63	11753011.85	0.0089	0.0003
Venus	27467-03-03 15:50 G	11753236.96	11753237.16	11753237.38	0.0089	0.0021
Venus	27467-10-15 04:33 G	11753462.51	11753462.69	11753462.90	0.0089	0.0040
Venus	27468-05-27 17:31 G	11753688.08	11753688.23	11753688.41	0.0089	0.0058
Venus	27469-01-08 06:14 G	11753913.67	11753913.76	11753913.89	0.0089	0.0077
Mercury	27477-09-14 01:26 G	11757084.56	11757084.56	11757084.58	0.0088	0.0088
Mercury	27477-12-11 02:53 G	11757172.58	11757172.62	11757172.69	0.0088	0.0081
Mercury	27478-03-09 04:19 G	11757260.62	11757260.68	11757260.77	0.0088	0.0074
Mercury	27478-06-05 06:14 G	11757348.67	11757348.76	11757348.85	0.0088	0.0067
Mercury	27478-09-01 07:41 G	11757436.72	11757436.82	11757436.93	0.0088	0.0060
Mercury	27478-11-28 09:07 G	11757524.78	11757524.88	11757525.00	0.0088	0.0053
Mercury	27479-02-24 10:48 G	11757612.83	11757612.95	11757613.07	0.0088	0.0045
Mercury	27479-05-23 12:14 G	11757700.89	11757701.01	11757701.14	0.0088	0.0038
Mercury	27479-08-19 13:41 G	11757788.95	11757789.07	11757789.21	0.0088	0.0032
Mercury	27479-11-15 15:21 G	11757877.01	11757877.14	11757877.28	0.0088	0.0024
Mercury	27480-02-11 17:02 G	11757965.07	11757965.21	11757965.35	0.0088	0.0017
Mercury	27480-05-09 18:43 G	11758053.14	11758053.28	11758053.42	0.0088	0.0009
Mercury	27480-08-05 20:09 G	11758141.20	11758141.34	11758141.48	0.0088	0.0002
Mercury	27480-11-01 21:50 G	11758229.27	11758229.41	11758229.55	0.0088	0.0005
Mercury	27481-01-28 23:17 G	11758317.33	11758317.47	11758317.62	0.0088	0.0013
Mercury	27481-04-27 00:57 G	11758405.40	11758405.54	11758405.68	0.0088	0.0020
Mercury	27481-07-24 02:38 G	11758493.47	11758493.61	11758493.74	0.0088	0.0027
Mercury	27481-10-20 04:05 G	11758581.54	11758581.67	11758581.81	0.0088	0.0035
Mercury	27482-01-16 05:45 G	11758669.62	11758669.74	11758669.87	0.0088	0.0042

Mercury	27482-04-14 07:26 G	11758757.69	11758757.81	11758757.93	0.0088	0.0050
Mercury	27482-07-11 08:53 G	11758845.77	11758845.87	11758845.99	0.0088	0.0057
Mercury	27482-10-07 10:33 G	11758933.85	11758933.94	11758934.04	0.0088	0.0065
Mercury	27483-01-03 12:00 G	11759021.93	11759022.00	11759022.10	0.0088	0.0072
Mercury	27483-04-01 13:55 G	11759110.02	11759110.08	11759110.14	0.0088	0.0079
Mercury	27483-06-28 15:21 G	11759198.13	11759198.14	11759198.17	0.0088	0.0087
Moon	27506-05-03 04:48 G	11767541.60	11767541.70	11767541.86	0.0088	0.0077
Earth	27506-05-03 08:09 G	11767541.74	11767541.84	11767541.95	0.0088	0.0080 *
Earth	27507-05-05 18:00 G	11767909.13	11767909.25	11767909.42	0.0088	0.0072
Moon	27507-05-05 21:07 G	11767909.27	11767909.38	11767909.53	0.0088	0.0076 *
Moon	27508-05-07 00:57 G	11768276.37	11768276.54	11768276.75	0.0088	0.0059
Earth	27508-05-07 04:48 G	11768276.53	11768276.70	11768276.89	0.0088	0.0063 *
Earth	27509-05-09 14:38 G	11768643.94	11768644.11	11768644.34	0.0088	0.0055
Moon	27509-05-09 18:14 G	11768644.09	11768644.26	11768644.47	0.0088	0.0059 *
Moon	27510-05-11 22:33 G	11769011.24	11769011.44	11769011.68	0.0088	0.0042
Earth	27510-05-12 01:26 G	11769011.36	11769011.56	11769011.80	0.0088	0.0046 *
Earth	27511-05-14 12:00 G	11769378.78	11769379.00	11769379.25	0.0088	0.0037
Moon	27511-05-14 14:24 G	11769378.87	11769379.10	11769379.34	0.0088	0.0041 *
Mars	27511-09-28 19:12 G	11769516.07	11769516.30	11769516.55	0.0088	0.0064
Moon	27512-05-15 22:05 G	11769746.19	11769746.42	11769746.67	0.0088	0.0024
Earth	27512-05-15 22:33 G	11769746.20	11769746.44	11769746.69	0.0088	0.0028 *
Moon	27513-05-18 08:24 G	11770113.61	11770113.85	11770114.12	0.0088	0.0023
Earth	27513-05-18 08:53 G	11770113.63	11770113.87	11770114.13	0.0088	0.0019 *
Mars	27513-08-25 05:45 G	11770212.41	11770212.74	11770213.10	0.0088	0.0013
Earth	27514-05-20 19:26 G	11770481.05	11770481.31	11770481.57	0.0088	0.0010
Moon	27514-05-20 20:53 G	11770481.13	11770481.37	11770481.62	0.0088	0.0006 *
Moon	27515-05-23 02:53 G	11770848.35	11770848.62	11770848.88	0.0088	0.0005
Earth	27515-05-23 05:45 G	11770848.49	11770848.74	11770849.00	0.0088	0.0002 *
Earth	27516-05-24 16:05 G	11771215.92	11771216.17	11771216.43	0.0088	0.0008
Moon	27516-05-24 19:12 G	11771216.05	11771216.30	11771216.56	0.0088	0.0013 *

Moon	27517-05-26 22:33 G	11771583.19	11771583.44	11771583.70	0.0088	0.0013
Earth	27517-05-27 02:24 G	11771583.35	11771583.60	11771583.86	0.0088	0.0017 *
Earth	27518-05-29 12:43 G	11771950.79	11771951.03	11771951.28	0.0088	0.0026
Moon	27518-05-29 15:36 G	11771950.93	11771951.15	11771951.42	0.0088	0.0031 *
Moon	27519-05-31 20:24 G	11772318.13	11772318.35	11772318.60	0.0088	0.0031
Earth	27519-05-31 23:17 G	11772318.24	11772318.47	11772318.71	0.0088	0.0035 *
Earth	27520-06-02 09:21 G	11772685.68	11772685.89	11772686.13	0.0088	0.0044
Moon	27520-06-02 11:31 G	11772685.76	11772685.98	11772686.20	0.0088	0.0048 *
Earth	27521-06-04 19:55 G	11773053.14	11773053.33	11773053.55	0.0088	0.0053
Moon	27521-06-04 19:55 G	11773053.14	11773053.33	11773053.55	0.0088	0.0049 *
Moon	27522-06-07 05:17 G	11773420.58	11773420.72	11773420.93	0.0088	0.0066
Earth	27522-06-07 06:14 G	11773420.61	11773420.76	11773420.97	0.0088	0.0062 *
Earth	27523-06-09 17:31 G	11773788.08	11773788.23	11773788.38	0.0088	0.0070
Moon	27523-06-09 18:57 G	11773788.15	11773788.29	11773788.48	0.0088	0.0066 *
Moon	27524-06-11 00:43 G	11774155.46	11774155.53	11774155.63	0.0088	0.0083
Earth	27524-06-11 03:50 G	11774155.57	11774155.66	11774155.79	0.0088	0.0079 *
Earth	27525-06-13 14:24 G	11774523.10	11774523.10	11774523.14	0.0088	0.0088
Moon	27525-06-13 17:45 G	11774523.18	11774523.24	11774523.33	0.0088	0.0083
Venus	27547-06-12 09:07 G	11782556.77	11782556.88	11782557.02	0.0089	0.0072
Venus	27548-01-23 22:19 G	11782782.26	11782782.43	11782782.62	0.0089	0.0053
Venus	27548-09-05 11:31 G	11783007.78	11783007.98	11783008.19	0.0089	0.0034
Venus	27549-04-19 00:43 G	11783233.31	11783233.53	11783233.75	0.0089	0.0015
Venus	27549-11-30 13:55 G	11783458.86	11783459.08	11783459.30	0.0089	0.0004
Venus	27550-07-14 02:53 G	11783684.41	11783684.62	11783684.84	0.0089	0.0023
Venus	27551-02-24 15:50 G	11783909.98	11783910.16	11783910.36	0.0089	0.0042
Venus	27551-10-08 04:48 G	11784135.56	11784135.70	11784135.87	0.0089	0.0061
Venus	27552-05-20 17:45 G	11784361.17	11784361.24	11784361.36	0.0089	0.0080
Mercury	27561-08-31 23:45 G	11787751.47	11787751.49	11787751.55	0.0089	0.0087
Mercury	27561-11-28 02:53 G	11787839.55	11787839.62	11787839.73	0.0089	0.0077
Mercury	27562-02-24 06:14 G	11787927.65	11787927.76	11787927.88	0.0089	0.0067

Mercury	27562-05-23 08:53 G	11788015.75	11788015.87	11788016.02	0.0089	0.0058
Mercury	27562-08-19 12:14 G	11788103.86	11788104.01	11788104.16	0.0089	0.0048
Mercury	27562-11-15 14:53 G	11788191.97	11788192.12	11788192.30	0.0089	0.0039
Mercury	27563-02-11 18:00 G	11788280.09	11788280.25	11788280.43	0.0089	0.0030
Mercury	27563-05-10 20:53 G	11788368.21	11788368.37	11788368.55	0.0089	0.0021
Mercury	27563-08-07 00:00 G	11788456.33	11788456.50	11788456.68	0.0089	0.0010
Mercury	27563-11-03 02:53 G	11788544.45	11788544.62	11788544.80	0.0089	0.0002
Mercury	27564-01-30 05:45 G	11788632.57	11788632.74	11788632.92	0.0089	0.0009
Mercury	27564-04-27 08:38 G	11788720.69	11788720.86	11788721.04	0.0089	0.0018
Mercury	27564-07-24 11:31 G	11788808.82	11788808.98	11788809.15	0.0089	0.0027
Mercury	27564-10-20 14:24 G	11788896.95	11788897.10	11788897.27	0.0089	0.0036
Mercury	27565-01-16 17:17 G	11788985.07	11788985.22	11788985.37	0.0089	0.0045
Mercury	27565-04-14 20:09 G	11789073.21	11789073.34	11789073.48	0.0089	0.0055
Mercury	27565-07-11 22:33 G	11789161.34	11789161.44	11789161.58	0.0089	0.0065
Mercury	27565-10-08 01:26 G	11789249.48	11789249.56	11789249.68	0.0089	0.0073
Mercury	27566-01-04 04:19 G	11789337.63	11789337.68	11789337.76	0.0089	0.0082
Earth	27588-11-01 23:45 G	11797675.41	11797675.49	11797675.62	0.0090	0.0082
Moon	27588-11-02 03:36 G	11797675.54	11797675.65	11797675.77	0.0090	0.0080 *
Moon	27589-11-04 09:36 G	11798042.76	11798042.90	11798043.06	0.0090	0.0073
Earth	27589-11-04 12:43 G	11798042.91	11798043.03	11798043.21	0.0090	0.0073 *
Earth	27590-11-07 02:09 G	11798410.41	11798410.59	11798410.78	0.0090	0.0063
Moon	27590-11-07 05:02 G	11798410.54	11798410.71	11798410.92	0.0090	0.0062 *
Moon	27591-11-09 12:00 G	11798777.82	11798778.00	11798778.21	0.0090	0.0056
Earth	27591-11-09 14:53 G	11798777.93	11798778.12	11798778.35	0.0090	0.0054 *
Earth	27592-11-11 04:19 G	11799145.46	11799145.68	11799145.90	0.0090	0.0044
Moon	27592-11-11 05:31 G	11799145.51	11799145.73	11799145.98	0.0090	0.0043 *
Mars	27593-08-07 22:48 G	11799415.24	11799415.45	11799415.68	0.0090	0.0058
Moon	27593-11-13 16:05 G	11799512.96	11799513.17	11799513.42	0.0090	0.0037
Earth	27593-11-13 16:48 G	11799512.98	11799513.20	11799513.46	0.0090	0.0035 *
Moon	27594-11-16 05:45 G	11799880.49	11799880.74	11799881.00	0.0090	0.0023

Earth	27594-11-16 06:00 G	11799880.51	11799880.75	11799881.01	0.0090	0.0025 *
Mars	27595-07-02 12:29 G	11800108.74	11800109.02	11800109.31	0.0090	0.0008
Earth	27595-11-18 18:43 G	11800248.04	11800248.28	11800248.55	0.0090	0.0016
Moon	27595-11-18 21:07 G	11800248.13	11800248.38	11800248.62	0.0090	0.0017 *
Moon	27596-11-20 05:31 G	11800615.47	11800615.73	11800616.00	0.0089	0.0004
Earth	27596-11-20 08:09 G	11800615.58	11800615.84	11800616.10	0.0089	0.0005 *
Mars	27597-05-26 00:14 G	11800802.35	11800802.51	11800802.68	0.0089	0.0073
Earth	27597-11-22 21:07 G	11800983.12	11800983.38	11800983.64	0.0089	0.0004
Moon	27597-11-23 00:29 G	11800983.26	11800983.52	11800983.77	0.0089	0.0002 *
Moon	27598-11-25 06:14 G	11801350.51	11801350.76	11801351.02	0.0089	0.0016
Earth	27598-11-25 10:05 G	11801350.67	11801350.92	11801351.18	0.0089	0.0014 *
Earth	27599-11-27 23:02 G	11801718.22	11801718.46	11801718.71	0.0089	0.0024
Moon	27599-11-28 02:24 G	11801718.35	11801718.60	11801718.86	0.0089	0.0021 *
Moon	27600-11-29 08:53 G	11802085.65	11802085.87	11802086.12	0.0089	0.0037
Earth	27600-11-29 12:00 G	11802085.78	11802086.00	11802086.26	0.0089	0.0034 *
Earth	27601-12-02 01:12 G	11802453.33	11802453.55	11802453.78	0.0089	0.0043
Moon	27601-12-02 03:07 G	11802453.39	11802453.63	11802453.87	0.0089	0.0040 *
Moon	27602-12-04 12:43 G	11802820.85	11802821.03	11802821.24	0.0089	0.0056
Earth	27602-12-04 13:41 G	11802820.89	11802821.07	11802821.30	0.0089	0.0053 *
Moon	27603-12-07 02:24 G	11803188.43	11803188.60	11803188.83	0.0089	0.0059
Earth	27603-12-07 02:53 G	11803188.44	11803188.62	11803188.81	0.0089	0.0062 *
Earth	27604-12-08 15:21 G	11803556.01	11803556.14	11803556.32	0.0089	0.0071
Moon	27604-12-08 17:02 G	11803556.09	11803556.21	11803556.37	0.0089	0.0075 *
Moon	27605-12-11 02:09 G	11803923.47	11803923.59	11803923.73	0.0089	0.0077
Earth	27605-12-11 04:05 G	11803923.59	11803923.67	11803923.81	0.0089	0.0081 *
Earth	27606-12-13 17:02 G	11804291.21	11804291.21	11804291.23	0.0089	0.0089
Venus	27628-05-04 08:38 G	11812103.80	11812103.86	11812103.97	0.0089	0.0082
Venus	27628-12-15 21:50 G	11812329.27	11812329.41	11812329.58	0.0089	0.0063
Venus	27629-07-29 11:02 G	11812554.77	11812554.96	11812555.15	0.0089	0.0044
Venus	27630-03-11 23:45 G	11812780.29	11812780.49	11812780.71	0.0089	0.0026

Venus	27630-10-23 12:57 G	11813005.82	11813006.04	11813006.26	0.0089	0.0007
Venus	27631-06-06 01:41 G	11813231.36	11813231.57	11813231.79	0.0089	0.0012
Venus	27632-01-17 14:24 G	11813456.90	11813457.10	11813457.32	0.0089	0.0031
Venus	27632-08-30 03:07 G	11813682.46	11813682.63	11813682.83	0.0089	0.0050
Venus	27633-04-12 15:36 G	11813908.04	11813908.15	11813908.32	0.0089	0.0069
Venus	27633-11-24 04:48 G	11814133.68	11814133.70	11814133.76	0.0089	0.0087
Mercury	27642-06-12 00:57 G	11817255.51	11817255.54	11817255.57	0.0088	0.0086
Mercury	27642-09-08 02:24 G	11817343.54	11817343.60	11817343.67	0.0088	0.0079
Mercury	27642-12-05 03:50 G	11817431.59	11817431.66	11817431.75	0.0088	0.0072
Mercury	27643-03-03 05:31 G	11817519.64	11817519.73	11817519.83	0.0088	0.0064
Mercury	27643-05-30 06:57 G	11817607.69	11817607.79	11817607.90	0.0088	0.0057
Mercury	27643-08-26 08:24 G	11817695.74	11817695.85	11817695.97	0.0088	0.0050
Mercury	27643-11-22 10:05 G	11817783.80	11817783.92	11817784.05	0.0088	0.0043
Mercury	27644-02-18 11:31 G	11817871.86	11817871.98	11817872.12	0.0088	0.0036
Mercury	27644-05-16 13:12 G	11817959.92	11817960.05	11817960.19	0.0088	0.0029
Mercury	27644-08-12 14:53 G	11818047.98	11818048.12	11818048.26	0.0088	0.0021
Mercury	27644-11-08 16:19 G	11818136.04	11818136.18	11818136.32	0.0088	0.0014
Mercury	27645-02-04 18:00 G	11818224.11	11818224.25	11818224.39	0.0088	0.0007
Mercury	27645-05-03 19:26 G	11818312.17	11818312.31	11818312.46	0.0088	0.0002
Mercury	27645-07-30 21:07 G	11818400.24	11818400.38	11818400.52	0.0088	0.0008
Mercury	27645-10-26 22:33 G	11818488.30	11818488.44	11818488.59	0.0088	0.0015
Mercury	27646-01-23 00:14 G	11818576.37	11818576.51	11818576.65	0.0088	0.0022
Mercury	27646-04-21 01:55 G	11818664.44	11818664.58	11818664.71	0.0088	0.0030
Mercury	27646-07-18 03:21 G	11818752.51	11818752.64	11818752.77	0.0088	0.0037
Mercury	27646-10-14 05:02 G	11818840.59	11818840.71	11818840.83	0.0088	0.0044
Mercury	27647-01-10 06:29 G	11818928.66	11818928.77	11818928.89	0.0088	0.0052
Mercury	27647-04-08 08:09 G	11819016.74	11819016.84	11819016.95	0.0088	0.0059
Mercury	27647-07-05 09:36 G	11819104.82	11819104.90	11819105.01	0.0088	0.0067
Mercury	27647-10-01 11:17 G	11819192.91	11819192.97	11819193.06	0.0088	0.0074
Mercury	27647-12-28 13:12 G	11819281.00	11819281.05	11819281.10	0.0088	0.0082

Earth	27670-05-02 15:36 G	11827442.14	11827442.15	11827442.22	0.0088	0.0087
Moon	27670-05-02 19:12 G	11827442.26	11827442.30	11827442.41	0.0088	0.0084
Moon	27671-05-04 22:48 G	11827809.38	11827809.45	11827809.58	0.0088	0.0081
Earth	27671-05-05 02:09 G	11827809.50	11827809.59	11827809.74	0.0088	0.0078 *
Earth	27672-05-06 12:43 G	11828176.88	11828177.03	11828177.20	0.0088	0.0069
Moon	27672-05-06 16:05 G	11828177.02	11828177.17	11828177.35	0.0088	0.0067 *
Moon	27673-05-08 20:53 G	11828544.21	11828544.37	11828544.55	0.0088	0.0063
Earth	27673-05-08 23:17 G	11828544.29	11828544.47	11828544.66	0.0088	0.0060 *
Earth	27674-05-11 09:50 G	11828911.70	11828911.91	11828912.12	0.0088	0.0051
Moon	27674-05-11 10:48 G	11828911.74	11828911.95	11828912.18	0.0088	0.0049 *
Moon	27675-05-13 19:55 G	11829279.11	11829279.33	11829279.54	0.0088	0.0044
Earth	27675-05-13 20:09 G	11829279.12	11829279.34	11829279.57	0.0088	0.0042 *
Moon	27676-05-15 04:48 G	11829646.47	11829646.70	11829646.97	0.0088	0.0031
Earth	27676-05-15 06:43 G	11829646.54	11829646.78	11829647.02	0.0088	0.0033 *
Mars	27677-04-07 08:09 G	11829973.51	11829973.84	11829974.20	0.0088	0.0015
Earth	27677-05-17 16:48 G	11830013.96	11830014.20	11830014.46	0.0088	0.0024
Moon	27677-05-17 18:57 G	11830014.07	11830014.29	11830014.55	0.0088	0.0027 *
Moon	27678-05-20 00:29 G	11830381.27	11830381.52	11830381.78	0.0088	0.0013
Earth	27678-05-20 03:36 G	11830381.40	11830381.65	11830381.91	0.0088	0.0015 *
Mars	27679-03-04 19:12 G	11830670.06	11830670.30	11830670.55	0.0088	0.0062
Earth	27679-05-22 13:55 G	11830748.83	11830749.08	11830749.34	0.0088	0.0006
Moon	27679-05-22 17:45 G	11830748.98	11830749.24	11830749.50	0.0088	0.0008 *
Moon	27680-05-23 21:07 G	11831116.12	11831116.38	11831116.63	0.0088	0.0006
Earth	27680-05-24 00:29 G	11831116.26	11831116.52	11831116.78	0.0088	0.0004 *
Earth	27681-05-26 10:33 G	11831483.69	11831483.94	11831484.20	0.0088	0.0013
Moon	27681-05-26 13:55 G	11831483.83	11831484.08	11831484.35	0.0088	0.0012 *
Moon	27682-05-28 19:12 G	11831851.06	11831851.30	11831851.55	0.0088	0.0024
Earth	27682-05-28 21:07 G	11831851.14	11831851.38	11831851.63	0.0088	0.0022 *
Earth	27683-05-31 07:26 G	11832218.57	11832218.81	11832219.05	0.0088	0.0031
Moon	27683-05-31 07:55 G	11832218.60	11832218.83	11832219.10	0.0088	0.0030 *

Earth	27684-06-01 17:45 G	11832586.02	11832586.24	11832586.48	0.0088	0.0040
Moon	27684-06-01 17:45 G	11832586.03	11832586.24	11832586.47	0.0088	0.0042 *
Moon	27685-06-04 02:09 G	11832953.38	11832953.59	11832953.82	0.0088	0.0047
Earth	27685-06-04 04:19 G	11832953.47	11832953.68	11832953.89	0.0088	0.0049 *
Earth	27686-06-06 14:38 G	11833320.92	11833321.11	11833321.31	0.0088	0.0058
Moon	27686-06-06 17:17 G	11833321.04	11833321.22	11833321.40	0.0088	0.0060 *
Moon	27687-06-08 21:36 G	11833688.25	11833688.40	11833688.59	0.0088	0.0066
Earth	27687-06-09 01:12 G	11833688.39	11833688.55	11833688.72	0.0088	0.0067 *
Earth	27688-06-10 11:31 G	11834055.86	11834055.98	11834056.12	0.0088	0.0076
Moon	27688-06-10 15:07 G	11834056.03	11834056.13	11834056.26	0.0088	0.0078 *
Moon	27689-06-12 18:29 G	11834423.23	11834423.27	11834423.38	0.0088	0.0084
Earth	27689-06-12 22:05 G	11834423.38	11834423.42	11834423.50	0.0088	0.0085 *
Venus	27711-09-14 17:45 G	11842551.17	11842551.24	11842551.35	0.0089	0.0081
Venus	27712-04-27 07:12 G	11842776.65	11842776.80	11842776.97	0.0089	0.0062
Venus	27712-12-08 20:24 G	11843002.16	11843002.35	11843002.55	0.0089	0.0043
Venus	27713-07-22 09:36 G	11843227.69	11843227.90	11843228.11	0.0089	0.0024
Venus	27714-03-04 22:33 G	11843453.23	11843453.44	11843453.67	0.0089	0.0006
Venus	27714-10-16 11:45 G	11843678.77	11843678.99	11843679.21	0.0089	0.0014
Venus	27715-05-30 00:43 G	11843904.34	11843904.53	11843904.75	0.0089	0.0033
Venus	27716-01-10 13:41 G	11844129.91	11844130.07	11844130.27	0.0089	0.0052
Venus	27716-08-23 02:38 G	11844355.50	11844355.61	11844355.77	0.0089	0.0071
Mercury	27726-05-29 21:50 G	11847922.38	11847922.41	11847922.48	0.0089	0.0085
Mercury	27726-08-26 00:57 G	11848010.46	11848010.54	11848010.65	0.0089	0.0075
Mercury	27726-11-22 04:19 G	11848098.56	11848098.68	11848098.80	0.0089	0.0065
Mercury	27727-02-18 06:57 G	11848186.67	11848186.79	11848186.94	0.0089	0.0056
Mercury	27727-05-17 10:19 G	11848274.78	11848274.93	11848275.08	0.0089	0.0046
Mercury	27727-08-13 12:57 G	11848362.89	11848363.04	11848363.22	0.0089	0.0037
Mercury	27727-11-09 16:05 G	11848451.01	11848451.17	11848451.35	0.0089	0.0028
Mercury	27728-02-05 18:57 G	11848539.13	11848539.29	11848539.47	0.0089	0.0019
Mercury	27728-05-03 22:05 G	11848627.25	11848627.42	11848627.60	0.0089	0.0008



Mercury	27728-07-31 00:57 G	11848715.37	11848715.54	11848715.72	0.0089	0.0003
Mercury	27728-10-27 04:05 G	11848803.49	11848803.67	11848803.84	0.0089	0.0011
Mercury	27729-01-23 06:43 G	11848891.61	11848891.78	11848891.96	0.0089	0.0020
Mercury	27729-04-21 09:36 G	11848979.74	11848979.90	11848980.07	0.0089	0.0029
Mercury	27729-07-18 12:29 G	11849067.87	11849068.02	11849068.19	0.0089	0.0039
Mercury	27729-10-14 15:36 G	11849156.00	11849156.15	11849156.29	0.0089	0.0048
Mercury	27730-01-10 18:00 G	11849244.13	11849244.25	11849244.40	0.0089	0.0057
Mercury	27730-04-08 20:53 G	11849332.27	11849332.37	11849332.50	0.0089	0.0066
Mercury	27730-07-05 23:45 G	11849420.41	11849420.49	11849420.59	0.0089	0.0075
Mercury	27730-10-02 02:24 G	11849508.56	11849508.60	11849508.67	0.0089	0.0085
Moon	27752-11-02 01:55 G	11857575.51	11857575.58	11857575.69	0.0090	0.0084
Earth	27752-11-02 05:45 G	11857575.70	11857575.74	11857575.79	0.0090	0.0088
Earth	27753-11-04 18:29 G	11857943.17	11857943.27	11857943.41	0.0090	0.0079
Moon	27753-11-04 21:21 G	11857943.32	11857943.39	11857943.51	0.0090	0.0084 *
Moon	27754-11-07 06:14 G	11858310.59	11858310.76	11858310.93	0.0090	0.0065
Earth	27754-11-07 07:26 G	11858310.68	11858310.81	11858311.00	0.0090	0.0070 *
Earth	27755-11-09 20:53 G	11858678.19	11858678.37	11858678.58	0.0090	0.0060
Moon	27755-11-09 22:19 G	11858678.25	11858678.43	11858678.63	0.0090	0.0064 *
Earth	27756-11-11 10:19 G	11859045.71	11859045.93	11859046.14	0.0090	0.0050
Moon	27756-11-11 10:19 G	11859045.73	11859045.93	11859046.16	0.0090	0.0046 *
Mars	27757-03-24 08:53 G	11859178.77	11859178.87	11859179.02	0.0090	0.0081
Moon	27757-11-13 21:07 G	11859413.17	11859413.38	11859413.64	0.0090	0.0045
Earth	27757-11-13 22:48 G	11859413.24	11859413.45	11859413.70	0.0090	0.0041 *
Earth	27758-11-16 11:45 G	11859780.76	11859780.99	11859781.25	0.0090	0.0031
Moon	27758-11-16 13:55 G	11859780.85	11859781.08	11859781.33	0.0090	0.0026 *
Mars	27759-02-15 22:33 G	11859872.17	11859872.44	11859872.73	0.0090	0.0016
Moon	27759-11-18 21:21 G	11860148.15	11860148.39	11860148.66	0.0090	0.0026
Earth	27759-11-19 00:57 G	11860148.30	11860148.54	11860148.80	0.0090	0.0021 *
Earth	27760-11-20 13:55 G	11860515.83	11860516.08	11860516.34	0.0090	0.0011
Moon	27760-11-20 17:17 G	11860515.97	11860516.22	11860516.48	0.0090	0.0007 *

Mars	27761-01-09 11:45 G	11860565.77	11860565.99	11860566.24	0.0090	0.0050
Moon	27761-11-22 23:02 G	11860883.21	11860883.46	11860883.73	0.0090	0.0006
Earth	27761-11-23 02:53 G	11860883.36	11860883.62	11860883.88	0.0090	0.0001 *
Earth	27762-11-25 15:36 G	11861250.90	11861251.15	11861251.41	0.0090	0.0009
Moon	27762-11-25 18:43 G	11861251.03	11861251.28	11861251.55	0.0090	0.0014 *
Moon	27763-11-28 02:24 G	11861618.36	11861618.60	11861618.86	0.0089	0.0015
Earth	27763-11-28 04:19 G	11861618.45	11861618.68	11861618.95	0.0089	0.0020 *
Earth	27764-11-29 17:31 G	11861985.99	11861986.23	11861986.48	0.0089	0.0029
Moon	27764-11-29 18:57 G	11861986.06	11861986.29	11861986.56	0.0089	0.0033 *
Earth	27765-12-02 06:29 G	11862353.55	11862353.77	11862354.01	0.0089	0.0039
Moon	27765-12-02 06:29 G	11862353.55	11862353.77	11862354.01	0.0089	0.0035 *
Moon	27766-12-04 18:29 G	11862721.05	11862721.27	11862721.49	0.0089	0.0052
Earth	27766-12-04 19:12 G	11862721.10	11862721.30	11862721.54	0.0089	0.0049 *
Earth	27767-12-07 08:09 G	11863088.67	11863088.84	11863089.06	0.0089	0.0058
Moon	27767-12-07 10:05 G	11863088.74	11863088.92	11863089.14	0.0089	0.0055 *
Moon	27768-12-08 18:00 G	11863456.11	11863456.25	11863456.42	0.0089	0.0072
Earth	27768-12-08 21:07 G	11863456.23	11863456.38	11863456.57	0.0089	0.0068 *
Earth	27769-12-11 09:36 G	11863823.80	11863823.90	11863824.06	0.0089	0.0078
Moon	27769-12-11 13:12 G	11863823.92	11863824.05	11863824.21	0.0089	0.0074 *
Earth	27770-12-13 22:33 G	11864191.40	11864191.44	11864191.53	0.0089	0.0087
Venus	27793-03-20 06:57 G	11872323.69	11872323.79	11872323.94	0.0089	0.0072
Venus	27793-10-31 20:09 G	11872549.18	11872549.34	11872549.53	0.0089	0.0053
Venus	27794-06-14 09:21 G	11872774.69	11872774.89	11872775.10	0.0089	0.0034
Venus	27795-01-25 22:05 G	11873000.22	11873000.42	11873000.65	0.0089	0.0016
Venus	27795-09-08 11:17 G	11873225.75	11873225.97	11873226.19	0.0089	0.0004
Venus	27796-04-20 23:45 G	11873451.29	11873451.49	11873451.72	0.0089	0.0023
Venus	27796-12-02 12:57 G	11873676.85	11873677.04	11873677.24	0.0089	0.0041
Venus	27797-07-16 01:26 G	11873902.42	11873902.56	11873902.74	0.0089	0.0060
Venus	27798-02-26 14:38 G	11874128.01	11874128.11	11874128.21	0.0089	0.0078
Mercury	27807-03-10 23:45 G	11877426.47	11877426.49	11877426.55	0.0088	0.0085

Mercury	27807-06-07 01:26 G	11877514.50	11877514.56	11877514.64	0.0088	0.0077
Mercury	27807-09-03 02:53 G	11877602.55	11877602.62	11877602.72	0.0088	0.0070
Mercury	27807-11-30 04:48 G	11877690.60	11877690.70	11877690.79	0.0088	0.0063
Mercury	27808-02-26 06:14 G	11877778.65	11877778.76	11877778.87	0.0088	0.0056
Mercury	27808-05-24 07:41 G	11877866.71	11877866.82	11877866.94	0.0088	0.0048
Mercury	27808-08-20 09:07 G	11877954.76	11877954.88	11877955.01	0.0088	0.0042
Mercury	27808-11-16 10:48 G	11878042.82	11878042.95	11878043.08	0.0088	0.0034
Mercury	27809-02-12 12:14 G	11878130.88	11878131.01	11878131.15	0.0088	0.0027
Mercury	27809-05-11 13:55 G	11878218.94	11878219.08	11878219.22	0.0088	0.0020
Mercury	27809-08-07 15:36 G	11878307.01	11878307.15	11878307.29	0.0088	0.0013
Mercury	27809-11-03 17:02 G	11878395.07	11878395.21	11878395.35	0.0088	0.0005
Mercury	27810-01-30 18:43 G	11878483.13	11878483.28	11878483.42	0.0088	0.0003
Mercury	27810-04-28 20:09 G	11878571.20	11878571.34	11878571.48	0.0088	0.0010
Mercury	27810-07-25 21:36 G	11878659.27	11878659.40	11878659.55	0.0088	0.0017
Mercury	27810-10-21 23:17 G	11878747.34	11878747.47	11878747.61	0.0088	0.0024
Mercury	27811-01-18 00:57 G	11878835.41	11878835.54	11878835.67	0.0088	0.0031
Mercury	27811-04-16 02:24 G	11878923.48	11878923.60	11878923.73	0.0088	0.0039
Mercury	27811-07-13 04:05 G	11879011.55	11879011.67	11879011.79	0.0088	0.0046
Mercury	27811-10-09 05:45 G	11879099.63	11879099.74	11879099.85	0.0088	0.0054
Mercury	27812-01-05 07:12 G	11879187.71	11879187.80	11879187.91	0.0088	0.0061
Mercury	27812-04-02 08:53 G	11879275.79	11879275.87	11879275.96	0.0088	0.0068
Mercury	27812-06-29 10:19 G	11879363.87	11879363.93	11879364.01	0.0088	0.0076
Mercury	27812-09-25 12:00 G	11879451.97	11879452.00	11879452.06	0.0088	0.0084
Jupiter	27830-02-02 01:41 G	11885790.21	11885790.57	11885791.03	0.0088	0.0060
Earth	27835-05-06 09:50 G	11887709.85	11887709.91	11887710.00	0.0088	0.0084
Moon	27835-05-06 12:14 G	11887709.94	11887710.01	11887710.14	0.0088	0.0081 *
Moon	27836-05-07 17:45 G	11888077.16	11888077.24	11888077.38	0.0088	0.0079
Earth	27836-05-07 20:09 G	11888077.23	11888077.34	11888077.49	0.0088	0.0075 *
Earth	27837-05-10 06:29 G	11888444.62	11888444.77	11888444.95	0.0088	0.0066
Moon	27837-05-10 06:57 G	11888444.63	11888444.79	11888445.00	0.0088	0.0063 *

Earth	27838-05-12 16:48 G	11888812.02	11888812.20	11888812.41	0.0088	0.0057
Moon	27838-05-12 17:31 G	11888812.07	11888812.23	11888812.43	0.0088	0.0060 *
Moon	27839-05-15 01:12 G	11889179.35	11889179.55	11889179.80	0.0088	0.0045
Earth	27839-05-15 03:07 G	11889179.43	11889179.63	11889179.86	0.0088	0.0048 *
Earth	27840-05-16 13:12 G	11889546.84	11889547.05	11889547.30	0.0088	0.0039
Moon	27840-05-16 16:33 G	11889546.97	11889547.19	11889547.41	0.0088	0.0042 *
Mars	27840-11-20 08:53 G	11889734.60	11889734.87	11889735.21	0.0088	0.0042
Moon	27841-05-18 20:24 G	11889914.11	11889914.35	11889914.61	0.0088	0.0027
Earth	27841-05-18 23:45 G	11889914.26	11889914.49	11889914.75	0.0088	0.0030 *
Earth	27842-05-21 10:33 G	11890281.69	11890281.94	11890282.19	0.0088	0.0020
Moon	27842-05-21 13:55 G	11890281.84	11890282.08	11890282.33	0.0088	0.0024 *
Mars	27842-10-17 18:43 G	11890430.98	11890431.28	11890431.62	0.0088	0.0035
Moon	27843-05-23 17:31 G	11890648.98	11890649.23	11890649.49	0.0088	0.0007
Earth	27843-05-23 20:53 G	11890649.12	11890649.37	11890649.63	0.0088	0.0011 *
Earth	27844-05-25 07:26 G	11891016.55	11891016.81	11891017.07	0.0088	0.0002
Moon	27844-05-25 09:36 G	11891016.64	11891016.90	11891017.17	0.0088	0.0005 *
Moon	27845-05-27 16:05 G	11891383.93	11891384.17	11891384.42	0.0088	0.0012
Earth	27845-05-27 17:45 G	11891383.99	11891384.24	11891384.50	0.0088	0.0008 *
Moon	27846-05-30 04:19 G	11891751.42	11891751.68	11891751.95	0.0088	0.0014
Earth	27846-05-30 04:05 G	11891751.43	11891751.67	11891751.93	0.0088	0.0018 *
Earth	27847-06-01 14:24 G	11892118.87	11892119.10	11892119.36	0.0088	0.0027
Moon	27847-06-01 15:36 G	11892118.93	11892119.15	11892119.40	0.0088	0.0030 *
Moon	27848-06-02 23:02 G	11892486.21	11892486.46	11892486.70	0.0088	0.0032
Earth	27848-06-03 00:43 G	11892486.31	11892486.53	11892486.78	0.0088	0.0036 *
Earth	27849-06-05 11:17 G	11892853.75	11892853.97	11892854.19	0.0088	0.0045
Moon	27849-06-05 14:24 G	11892853.90	11892854.10	11892854.32	0.0088	0.0049 *
Moon	27850-06-07 18:14 G	11893221.06	11893221.26	11893221.48	0.0088	0.0051
Earth	27850-06-07 21:21 G	11893221.21	11893221.39	11893221.62	0.0088	0.0055 *
Earth	27851-06-10 07:41 G	11893588.67	11893588.82	11893589.02	0.0088	0.0064
Moon	27851-06-10 11:17 G	11893588.83	11893588.97	11893589.15	0.0088	0.0068 *

Moon	27852-06-11 15:07 G	11893956.00	11893956.13	11893956.31	0.0088	0.0069
Earth	27852-06-11 18:14 G	11893956.14	11893956.26	11893956.43	0.0088	0.0073 *
Earth	27853-06-14 04:33 G	11894323.63	11894323.69	11894323.82	0.0088	0.0082
Moon	27853-06-14 06:57 G	11894323.75	11894323.79	11894323.87	0.0088	0.0085 *
Moon	27854-06-16 14:09 G	11894691.08	11894691.09	11894691.15	0.0088	0.0087
Venus	27876-07-30 15:36 G	11902771.02	11902771.15	11902771.28	0.0089	0.0071
Venus	27877-03-13 04:19 G	11902996.52	11902996.68	11902996.87	0.0089	0.0053
Venus	27877-10-24 17:31 G	11903222.04	11903222.23	11903222.44	0.0089	0.0034
Venus	27878-06-07 06:57 G	11903447.57	11903447.79	11903448.01	0.0089	0.0015
Venus	27879-01-18 19:55 G	11903673.11	11903673.33	11903673.55	0.0089	0.0004
Venus	27879-09-01 08:53 G	11903898.66	11903898.87	11903899.09	0.0089	0.0023
Venus	27880-04-13 21:50 G	11904124.23	11904124.41	11904124.62	0.0089	0.0042
Venus	27880-11-25 10:48 G	11904349.81	11904349.95	11904350.13	0.0089	0.0061
Venus	27881-07-09 00:00 G	11904575.43	11904575.50	11904575.62	0.0089	0.0080
Mercury	27891-02-24 19:55 G	11908093.28	11908093.33	11908093.40	0.0089	0.0083
Mercury	27891-05-23 22:48 G	11908181.36	11908181.45	11908181.56	0.0089	0.0074
Mercury	27891-08-20 01:55 G	11908269.47	11908269.58	11908269.71	0.0089	0.0064
Mercury	27891-11-16 04:48 G	11908357.57	11908357.70	11908357.86	0.0089	0.0055
Mercury	27892-02-12 07:55 G	11908445.69	11908445.83	11908445.99	0.0089	0.0045
Mercury	27892-05-10 11:02 G	11908533.80	11908533.96	11908534.13	0.0089	0.0035
Mercury	27892-08-06 13:55 G	11908621.92	11908622.08	11908622.26	0.0089	0.0026
Mercury	27892-11-02 17:02 G	11908710.04	11908710.21	11908710.39	0.0089	0.0016
Mercury	27893-01-29 19:55 G	11908798.16	11908798.33	11908798.51	0.0089	0.0007
Mercury	27893-04-27 23:02 G	11908886.28	11908886.46	11908886.63	0.0089	0.0003
Mercury	27893-07-25 01:41 G	11908974.40	11908974.57	11908974.75	0.0089	0.0013
Mercury	27893-10-21 04:48 G	11909062.53	11909062.70	11909062.87	0.0089	0.0021
Mercury	27894-01-17 07:41 G	11909150.66	11909150.82	11909150.99	0.0089	0.0031
Mercury	27894-04-15 10:19 G	11909238.78	11909238.93	11909239.10	0.0089	0.0040
Mercury	27894-07-12 13:12 G	11909326.91	11909327.05	11909327.21	0.0089	0.0049
Mercury	27894-10-08 16:05 G	11909415.05	11909415.17	11909415.31	0.0089	0.0059

Mercury	27895-01-04 19:12 G	11909503.19	11909503.30	11909503.41	0.0089	0.0068
Mercury	27895-04-02 21:36 G	11909591.33	11909591.40	11909591.50	0.0089	0.0077
Mercury	27895-06-30 00:14 G	11909679.49	11909679.51	11909679.58	0.0089	0.0087
Moon	27917-11-05 21:07 G	11917843.35	11917843.38	11917843.47	0.0090	0.0087
Earth	27917-11-05 22:33 G	11917843.39	11917843.44	11917843.54	0.0090	0.0086 *
Moon	27918-11-08 11:31 G	11918210.86	11918210.98	11918211.15	0.0090	0.0075
Earth	27918-11-08 12:00 G	11918210.88	11918211.00	11918211.15	0.0090	0.0076 *
Earth	27919-11-11 00:43 G	11918578.39	11918578.53	11918578.73	0.0090	0.0067
Moon	27919-11-11 01:55 G	11918578.43	11918578.58	11918578.76	0.0090	0.0067 *
Moon	27920-11-12 12:14 G	11918945.81	11918946.01	11918946.22	0.0090	0.0056
Earth	27920-11-12 14:09 G	11918945.91	11918946.09	11918946.31	0.0090	0.0057 *
Earth	27921-11-15 03:07 G	11919313.43	11919313.63	11919313.87	0.0090	0.0047
Moon	27921-11-15 06:14 G	11919313.57	11919313.76	11919314.00	0.0090	0.0048 *
Mars	27922-10-03 08:53 G	11919635.62	11919635.87	11919636.14	0.0090	0.0039
Moon	27922-11-17 13:12 G	11919680.82	11919681.05	11919681.30	0.0090	0.0037
Earth	27922-11-17 16:33 G	11919680.96	11919681.19	11919681.44	0.0090	0.0037 *
Earth	27923-11-20 05:31 G	11920048.50	11920048.73	11920048.99	0.0090	0.0027
Moon	27923-11-20 09:36 G	11920048.65	11920048.90	11920049.15	0.0090	0.0026 *
Mars	27924-08-26 21:50 G	11920329.15	11920329.41	11920329.69	0.0090	0.0027
Moon	27924-11-21 15:36 G	11920415.91	11920416.15	11920416.41	0.0090	0.0017
Earth	27924-11-21 18:29 G	11920416.03	11920416.27	11920416.54	0.0090	0.0017 *
Earth	27925-11-24 07:41 G	11920783.56	11920783.82	11920784.08	0.0090	0.0006
Moon	27925-11-24 10:33 G	11920783.67	11920783.94	11920784.20	0.0090	0.0005 *
Moon	27926-11-26 18:57 G	11921151.04	11921151.29	11921151.55	0.0090	0.0003
Earth	27926-11-26 20:38 G	11921151.10	11921151.36	11921151.62	0.0090	0.0004 *
Earth	27927-11-29 09:36 G	11921518.65	11921518.90	11921519.16	0.0090	0.0014
Moon	27927-11-29 09:36 G	11921518.65	11921518.90	11921519.18	0.0090	0.0015 *
Earth	27928-11-30 22:33 G	11921886.19	11921886.44	11921886.69	0.0089	0.0024
Moon	27928-11-30 23:02 G	11921886.22	11921886.46	11921886.70	0.0089	0.0023 *
Moon	27929-12-03 08:53 G	11922253.65	11922253.87	11922254.14	0.0089	0.0036

Earth	27929-12-03 11:31 G	11922253.74	11922253.98	11922254.22	0.0089	0.0034	*
Earth	27930-12-06 00:29 G	11922621.30	11922621.52	11922621.75	0.0089	0.0044	
Moon	27930-12-06 02:53 G	11922621.42	11922621.62	11922621.86	0.0089	0.0044	*
Moon	27931-12-08 10:05 G	11922988.73	11922988.92	11922989.14	0.0089	0.0056	
Earth	27931-12-08 13:26 G	11922988.86	11922989.06	11922989.28	0.0089	0.0054	*
Earth	27932-12-10 02:09 G	11923356.42	11923356.59	11923356.78	0.0089	0.0064	
Moon	27932-12-10 06:00 G	11923356.58	11923356.75	11923356.95	0.0089	0.0062	*
Moon	27933-12-12 11:45 G	11923723.88	11923723.99	11923724.15	0.0089	0.0075	
Earth	27933-12-12 15:07 G	11923724.00	11923724.13	11923724.30	0.0089	0.0074	*
Earth	27934-12-15 03:36 G	11924091.59	11924091.65	11924091.78	0.0089	0.0084	
Moon	27934-12-15 06:43 G	11924091.70	11924091.78	11924091.93	0.0089	0.0081	*
Venus	27957-06-23 15:50 G	11932318.09	11932318.16	11932318.28	0.0089	0.0081	
Venus	27958-02-04 05:02 G	11932543.57	11932543.71	11932543.88	0.0089	0.0062	
Venus	27958-09-17 18:00 G	11932769.07	11932769.25	11932769.45	0.0089	0.0043	
Venus	27959-05-01 06:57 G	11932994.59	11932994.79	11932995.01	0.0089	0.0024	
Venus	27959-12-12 20:09 G	11933220.12	11933220.34	11933220.56	0.0089	0.0006	
Venus	27960-07-25 08:53 G	11933445.66	11933445.87	11933446.10	0.0089	0.0014	
Venus	27961-03-07 21:50 G	11933671.21	11933671.41	11933671.62	0.0089	0.0032	
Venus	27961-10-19 10:33 G	11933896.77	11933896.94	11933897.13	0.0089	0.0051	
Venus	27962-06-01 23:45 G	11934122.35	11934122.49	11934122.63	0.0089	0.0069	
Venus	27963-01-13 12:14 G	11934348.00	11934348.01	11934348.06	0.0089	0.0088	
Mercury	27971-12-06 23:02 G	11937597.42	11937597.46	11937597.52	0.0088	0.0083	
Mercury	27972-03-04 00:29 G	11937685.46	11937685.52	11937685.60	0.0088	0.0076	
Mercury	27972-05-31 02:09 G	11937773.51	11937773.59	11937773.68	0.0088	0.0068	
Mercury	27972-08-27 03:36 G	11937861.56	11937861.65	11937861.76	0.0088	0.0061	
Mercury	27972-11-23 05:02 G	11937949.61	11937949.71	11937949.83	0.0088	0.0055	
Mercury	27973-02-19 06:43 G	11938037.67	11938037.78	11938037.91	0.0088	0.0047	
Mercury	27973-05-18 08:24 G	11938125.73	11938125.85	11938125.98	0.0088	0.0040	
Mercury	27973-08-14 09:50 G	11938213.78	11938213.91	11938214.05	0.0088	0.0033	
Mercury	27973-11-10 11:31 G	11938301.84	11938301.98	11938302.11	0.0088	0.0025	

Mercury	27974-02-06 12:57 G	11938389.91	11938390.04	11938390.18	0.0088	0.0018
Mercury	27974-05-05 14:38 G	11938477.97	11938478.11	11938478.25	0.0088	0.0011
Mercury	27974-08-01 16:05 G	11938566.03	11938566.17	11938566.31	0.0088	0.0004
Mercury	27974-10-28 17:45 G	11938654.10	11938654.24	11938654.38	0.0088	0.0004
Mercury	27975-01-24 19:12 G	11938742.16	11938742.30	11938742.44	0.0088	0.0011
Mercury	27975-04-22 20:53 G	11938830.23	11938830.37	11938830.51	0.0088	0.0018
Mercury	27975-07-19 22:19 G	11938918.30	11938918.43	11938918.57	0.0088	0.0026
Mercury	27975-10-15 23:45 G	11939006.37	11939006.49	11939006.63	0.0088	0.0034
Mercury	27976-01-12 01:26 G	11939094.44	11939094.56	11939094.69	0.0088	0.0041
Mercury	27976-04-09 02:53 G	11939182.51	11939182.62	11939182.75	0.0088	0.0048
Mercury	27976-07-06 04:33 G	11939270.59	11939270.69	11939270.81	0.0088	0.0055
Mercury	27976-10-02 06:29 G	11939358.67	11939358.77	11939358.87	0.0088	0.0063
Mercury	27976-12-29 07:41 G	11939446.75	11939446.82	11939446.92	0.0088	0.0071
Mercury	27977-03-27 09:36 G	11939534.84	11939534.90	11939534.97	0.0088	0.0077
Mercury	27977-06-23 11:02 G	11939622.94	11939622.96	11939623.01	0.0088	0.0085
Jupiter	27996-04-04 09:50 G	11946482.40	11946482.91	11946483.47	0.0088	0.0029
Moon	27999-05-06 16:05 G	11947610.16	11947610.17	11947610.22	0.0088	0.0087
Earth	28000-05-08 02:53 G	11947977.56	11947977.62	11947977.75	0.0088	0.0082
Moon	28000-05-08 03:07 G	11947977.59	11947977.63	11947977.72	0.0088	0.0085 *

# 29TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 29th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
--------	-------------------------	---	-------	-----	-----	--------	-------	---



Earth	28001-05-10 13:12 G	11948344.94	11948345.05	11948345.23	0.0088	0.0073
Moon	28001-05-10 14:53 G	11948344.98	11948345.12	11948345.29	0.0088	0.0069 *
Moon	28002-05-12 21:21 G	11948712.23	11948712.39	11948712.57	0.0088	0.0067
Earth	28002-05-13 00:14 G	11948712.34	11948712.51	11948712.69	0.0088	0.0063 *
Earth	28003-05-15 10:05 G	11949079.73	11949079.92	11949080.14	0.0088	0.0054
Moon	28003-05-15 12:57 G	11949079.85	11949080.04	11949080.27	0.0088	0.0051 *
Moon	28004-05-16 16:33 G	11949447.00	11949447.19	11949447.43	0.0088	0.0049
Earth	28004-05-16 20:24 G	11949447.15	11949447.35	11949447.59	0.0088	0.0045 *
Mars	28004-07-04 11:31 G	11949495.78	11949495.98	11949496.21	0.0088	0.0068
Earth	28005-05-19 06:57 G	11949814.56	11949814.79	11949815.03	0.0088	0.0035
Moon	28005-05-19 10:05 G	11949814.69	11949814.92	11949815.18	0.0088	0.0032 *
Moon	28006-05-21 14:24 G	11950181.87	11950182.10	11950182.34	0.0088	0.0029
Earth	28006-05-21 17:02 G	11950181.98	11950182.21	11950182.47	0.0088	0.0026 *
Mars	28006-05-31 19:55 G	11950192.00	11950192.33	11950192.69	0.0088	0.0008
Earth	28007-05-24 03:21 G	11950549.40	11950549.64	11950549.91	0.0088	0.0017
Moon	28007-05-24 05:45 G	11950549.48	11950549.74	11950550.01	0.0088	0.0013 *
Mars	28008-04-27 05:45 G	11950888.65	11950888.74	11950888.86	0.0088	0.0083
Moon	28008-05-25 13:41 G	11950916.82	11950917.07	11950917.32	0.0088	0.0010
Earth	28008-05-25 13:55 G	11950916.83	11950917.08	11950917.34	0.0088	0.0007 *
Moon	28009-05-28 00:14 G	11951284.24	11951284.51	11951284.77	0.0088	0.0006
Earth	28009-05-28 00:29 G	11951284.27	11951284.52	11951284.78	0.0088	0.0003 *
Earth	28010-05-30 10:48 G	11951651.70	11951651.95	11951652.21	0.0088	0.0013
Moon	28010-05-30 12:29 G	11951651.78	11951652.02	11951652.27	0.0088	0.0009 *
Moon	28011-06-01 18:00 G	11952019.01	11952019.25	11952019.51	0.0088	0.0026
Earth	28011-06-01 21:07 G	11952019.14	11952019.38	11952019.64	0.0088	0.0022 *
Earth	28012-06-03 07:26 G	11952386.58	11952386.81	11952387.06	0.0088	0.0032
Moon	28012-06-03 10:33 G	11952386.71	11952386.94	11952387.19	0.0088	0.0029 *
Moon	28013-06-05 13:55 G	11952753.88	11952754.08	11952754.32	0.0088	0.0045
Earth	28013-06-05 18:00 G	11952754.03	11952754.25	11952754.48	0.0088	0.0041 *

Earth	28014-06-08 03:50 G	11953121.47	11953121.66	11953121.89	0.0088	0.0051
Moon	28014-06-08 07:12 G	11953121.60	11953121.80	11953122.04	0.0088	0.0047 *
Moon	28015-06-10 11:31 G	11953488.83	11953488.98	11953489.18	0.0088	0.0063
Earth	28015-06-10 14:24 G	11953488.93	11953489.10	11953489.31	0.0088	0.0060 *
Earth	28016-06-12 00:57 G	11953856.39	11953856.54	11953856.71	0.0088	0.0069
Moon	28016-06-12 02:38 G	11953856.45	11953856.61	11953856.80	0.0088	0.0066 *
Earth	28017-06-14 11:17 G	11954223.87	11954223.97	11954224.10	0.0088	0.0078
Moon	28017-06-14 11:02 G	11954223.90	11954223.96	11954224.07	0.0088	0.0082 *
Moon	28018-06-16 20:24 G	11954591.32	11954591.35	11954591.46	0.0088	0.0085
Earth	28018-06-16 22:05 G	11954591.40	11954591.42	11954591.45	0.0088	0.0087 *
Venus	28040-11-01 23:17 G	11962765.40	11962765.47	11962765.58	0.0089	0.0081
Venus	28041-06-15 12:43 G	11962990.88	11962991.03	11962991.19	0.0089	0.0062
Venus	28042-01-27 01:26 G	11963216.39	11963216.56	11963216.77	0.0089	0.0044
Venus	28042-09-09 14:38 G	11963441.91	11963442.11	11963442.33	0.0089	0.0025
Venus	28043-04-23 03:50 G	11963667.44	11963667.66	11963667.89	0.0089	0.0006
Venus	28043-12-04 17:02 G	11963892.99	11963893.21	11963893.43	0.0089	0.0013
Venus	28044-07-17 06:00 G	11964118.55	11964118.75	11964118.96	0.0089	0.0032
Venus	28045-02-27 18:43 G	11964344.12	11964344.28	11964344.48	0.0089	0.0051
Venus	28045-10-11 08:09 G	11964569.71	11964569.84	11964569.98	0.0089	0.0069
Venus	28046-05-24 21:07 G	11964795.37	11964795.38	11964795.42	0.0089	0.0088
Mercury	28055-11-22 17:02 G	11968264.17	11968264.21	11968264.29	0.0089	0.0084
Mercury	28056-02-18 20:24 G	11968352.26	11968352.35	11968352.46	0.0089	0.0073
Mercury	28056-05-16 23:17 G	11968440.36	11968440.47	11968440.61	0.0089	0.0064
Mercury	28056-08-13 02:24 G	11968528.47	11968528.60	11968528.75	0.0089	0.0054
Mercury	28056-11-09 05:31 G	11968616.58	11968616.73	11968616.89	0.0089	0.0044
Mercury	28057-02-05 08:24 G	11968704.69	11968704.85	11968705.02	0.0089	0.0035
Mercury	28057-05-04 11:31 G	11968792.81	11968792.98	11968793.15	0.0089	0.0025
Mercury	28057-07-31 14:24 G	11968880.93	11968881.10	11968881.28	0.0089	0.0016
Mercury	28057-10-27 17:31 G	11968969.05	11968969.23	11968969.41	0.0089	0.0006
Mercury	28058-01-23 20:24 G	11969057.18	11969057.35	11969057.53	0.0089	0.0004

Mercury	28058-04-21 23:17 G	11969145.30	11969145.47	11969145.65	0.0089	0.0013
Mercury	28058-07-19 02:09 G	11969233.43	11969233.59	11969233.77	0.0089	0.0022
Mercury	28058-10-15 05:02 G	11969321.55	11969321.71	11969321.88	0.0089	0.0031
Mercury	28059-01-11 08:09 G	11969409.68	11969409.84	11969410.00	0.0089	0.0041
Mercury	28059-04-09 10:48 G	11969497.81	11969497.95	11969498.10	0.0089	0.0050
Mercury	28059-07-06 13:41 G	11969585.95	11969586.07	11969586.21	0.0089	0.0059
Mercury	28059-10-02 16:33 G	11969674.09	11969674.19	11969674.31	0.0089	0.0068
Mercury	28059-12-29 19:26 G	11969762.23	11969762.31	11969762.40	0.0089	0.0078
Mercury	28060-03-26 22:19 G	11969850.40	11969850.43	11969850.47	0.0089	0.0087
Moon	28081-11-05 02:09 G	11977743.55	11977743.59	11977743.64	0.0090	0.0088
Earth	28082-11-07 15:36 G	11978111.07	11978111.15	11978111.26	0.0090	0.0083
Moon	28082-11-07 18:00 G	11978111.20	11978111.25	11978111.31	0.0090	0.0087 *
Moon	28083-11-10 02:09 G	11978478.43	11978478.59	11978478.76	0.0090	0.0069
Earth	28083-11-10 05:02 G	11978478.56	11978478.71	11978478.86	0.0090	0.0073 *
Earth	28084-11-11 18:00 G	11978846.07	11978846.25	11978846.43	0.0090	0.0063
Moon	28084-11-11 21:07 G	11978846.23	11978846.38	11978846.55	0.0090	0.0068 *
Moon	28085-11-14 03:21 G	11979213.43	11979213.64	11979213.87	0.0090	0.0049
Earth	28085-11-14 06:43 G	11979213.59	11979213.78	11979214.01	0.0090	0.0054 *
Mars	28086-05-18 15:50 G	11979398.96	11979399.16	11979399.37	0.0090	0.0063
Earth	28086-11-16 20:09 G	11979581.12	11979581.34	11979581.58	0.0090	0.0043
Moon	28086-11-16 23:17 G	11979581.27	11979581.47	11979581.71	0.0090	0.0048 *
Moon	28087-11-19 06:14 G	11979948.53	11979948.76	11979949.01	0.0090	0.0029
Earth	28087-11-19 09:21 G	11979948.66	11979948.89	11979949.14	0.0090	0.0033 *
Mars	28088-04-11 06:43 G	11980092.50	11980092.78	11980093.07	0.0090	0.0002
Earth	28088-11-20 22:19 G	11980316.19	11980316.43	11980316.69	0.0090	0.0023
Moon	28088-11-21 00:14 G	11980316.25	11980316.51	11980316.76	0.0090	0.0027 *
Moon	28089-11-23 10:33 G	11980683.70	11980683.94	11980684.20	0.0090	0.0009
Earth	28089-11-23 11:17 G	11980683.72	11980683.97	11980684.24	0.0090	0.0013 *
Mars	28090-03-05 18:43 G	11980786.12	11980786.28	11980786.49	0.0090	0.0068
Moon	28090-11-26 00:14 G	11981051.24	11981051.51	11981051.78	0.0090	0.0007

Earth	28090-11-26 00:29 G	11981051.26	11981051.52	11981051.78	0.0090	0.0002	*
Earth	28091-11-28 13:26 G	11981418.80	11981419.06	11981419.32	0.0090	0.0008	
Moon	28091-11-28 15:21 G	11981418.89	11981419.14	11981419.39	0.0090	0.0013	*
Moon	28092-11-29 23:31 G	11981786.23	11981786.48	11981786.75	0.0090	0.0015	
Earth	28092-11-30 02:09 G	11981786.34	11981786.59	11981786.85	0.0090	0.0019	*
Earth	28093-12-02 15:07 G	11982153.89	11982154.13	11982154.38	0.0090	0.0029	
Moon	28093-12-02 18:14 G	11982154.03	11982154.26	11982154.51	0.0090	0.0034	*
Moon	28094-12-05 00:14 G	11982521.29	11982521.51	11982521.77	0.0089	0.0035	
Earth	28094-12-05 03:50 G	11982521.45	11982521.66	11982521.91	0.0089	0.0040	*
Earth	28095-12-07 16:33 G	11982888.99	11982889.19	11982889.43	0.0089	0.0049	
Moon	28095-12-07 20:09 G	11982889.15	11982889.34	11982889.56	0.0089	0.0054	*
Moon	28096-12-09 02:38 G	11983256.42	11983256.61	11983256.82	0.0089	0.0055	
Earth	28096-12-09 05:31 G	11983256.56	11983256.73	11983256.95	0.0089	0.0060	*
Earth	28097-12-11 18:29 G	11983624.13	11983624.27	11983624.46	0.0089	0.0069	
Moon	28097-12-11 20:24 G	11983624.22	11983624.35	11983624.52	0.0089	0.0074	*
Moon	28098-12-14 06:29 G	11983991.66	11983991.77	11983991.92	0.0089	0.0076	
Earth	28098-12-14 07:26 G	11983991.72	11983991.81	11983991.96	0.0089	0.0080	*
Earth	28099-12-16 20:53 G	11984359.35	11984359.37	11984359.41	0.0089	0.0089	
Venus	28122-05-09 13:26 G	11992537.94	11992538.06	11992538.20	0.0089	0.0071	
Venus	28122-12-21 02:38 G	11992763.44	11992763.61	11992763.79	0.0089	0.0052	
Venus	28123-08-03 15:21 G	11992988.95	11992989.14	11992989.36	0.0089	0.0034	
Venus	28124-03-16 04:33 G	11993214.47	11993214.69	11993214.91	0.0089	0.0015	
Venus	28124-10-27 17:31 G	11993440.01	11993440.23	11993440.45	0.0089	0.0004	
Venus	28125-06-10 06:14 G	11993665.56	11993665.76	11993665.98	0.0089	0.0023	
Venus	28126-01-21 18:57 G	11993891.11	11993891.29	11993891.50	0.0089	0.0042	
Venus	28126-09-04 07:55 G	11994116.68	11994116.83	11994117.00	0.0089	0.0060	
Venus	28127-04-17 20:24 G	11994342.28	11994342.35	11994342.48	0.0089	0.0079	
Mercury	28136-09-02 22:05 G	11997768.38	11997768.42	11997768.48	0.0088	0.0081	
Mercury	28136-11-29 23:31 G	11997856.42	11997856.48	11997856.56	0.0088	0.0075	
Mercury	28137-02-26 00:57 G	11997944.47	11997944.54	11997944.64	0.0088	0.0068	

Mercury	28137-05-25 02:38 G	11998032.52	11998032.61	11998032.72	0.0088	0.0060
Mercury	28137-08-21 04:05 G	11998120.57	11998120.67	11998120.79	0.0088	0.0053
Mercury	28137-11-17 05:31 G	11998208.62	11998208.73	11998208.86	0.0088	0.0046
Mercury	28138-02-13 07:26 G	11998296.68	11998296.81	11998296.93	0.0088	0.0039
Mercury	28138-05-12 08:53 G	11998384.74	11998384.87	11998385.00	0.0088	0.0031
Mercury	28138-08-08 10:19 G	11998472.80	11998472.93	11998473.07	0.0088	0.0024
Mercury	28138-11-04 12:00 G	11998560.86	11998561.00	11998561.14	0.0088	0.0017
Mercury	28139-01-31 13:26 G	11998648.92	11998649.06	11998649.20	0.0088	0.0010
Mercury	28139-04-29 15:07 G	11998736.99	11998737.13	11998737.27	0.0088	0.0002
Mercury	28139-07-26 16:33 G	11998825.05	11998825.19	11998825.33	0.0088	0.0005
Mercury	28139-10-22 18:14 G	11998913.12	11998913.26	11998913.40	0.0088	0.0012
Mercury	28140-01-18 19:41 G	11999001.19	11999001.32	11999001.46	0.0088	0.0020
Mercury	28140-04-15 21:07 G	11999089.25	11999089.38	11999089.53	0.0088	0.0028
Mercury	28140-07-12 22:48 G	11999177.32	11999177.45	11999177.59	0.0088	0.0034
Mercury	28140-10-09 00:29 G	11999265.40	11999265.52	11999265.65	0.0088	0.0042
Mercury	28141-01-05 01:55 G	11999353.47	11999353.58	11999353.71	0.0088	0.0049
Mercury	28141-04-03 03:36 G	11999441.55	11999441.65	11999441.76	0.0088	0.0056
Mercury	28141-06-30 05:02 G	11999529.63	11999529.71	11999529.82	0.0088	0.0064
Mercury	28141-09-26 06:43 G	11999617.71	11999617.78	11999617.87	0.0088	0.0071
Mercury	28141-12-23 08:09 G	11999705.80	11999705.84	11999705.92	0.0088	0.0079
Mercury	28142-03-21 09:50 G	11999793.90	11999793.91	11999793.95	0.0088	0.0087
Moon	28164-05-08 11:45 G	12007877.97	12007877.99	12007878.03	0.0088	0.0087
Moon	28165-05-10 17:02 G	12008245.13	12008245.21	12008245.33	0.0088	0.0081
Earth	28165-05-10 19:55 G	12008245.24	12008245.33	12008245.46	0.0088	0.0079 *
Earth	28166-05-13 06:00 G	12008612.62	12008612.75	12008612.93	0.0088	0.0070
Moon	28166-05-13 10:05 G	12008612.77	12008612.92	12008613.08	0.0088	0.0068 *
Moon	28167-05-15 13:12 G	12008979.88	12008980.05	12008980.24	0.0088	0.0062
Earth	28167-05-15 16:19 G	12008980.02	12008980.18	12008980.39	0.0088	0.0061 *
Earth	28168-05-17 02:38 G	12009347.42	12009347.61	12009347.84	0.0088	0.0051
Moon	28168-05-17 06:29 G	12009347.55	12009347.77	12009347.99	0.0088	0.0048 *

Moon	28169-05-19 11:02 G	12009714.75	12009714.96	12009715.19	0.0088	0.0043
Earth	28169-05-19 12:57 G	12009714.83	12009715.04	12009715.28	0.0088	0.0042 *
Mars	28170-01-12 20:24 G	12009953.02	12009953.35	12009953.69	0.0088	0.0020
Earth	28170-05-21 23:17 G	12010082.24	12010082.47	12010082.72	0.0088	0.0032
Moon	28170-05-22 00:29 G	12010082.29	12010082.52	12010082.79	0.0088	0.0030 *
Moon	28171-05-24 09:21 G	12010449.66	12010449.89	12010450.14	0.0088	0.0025
Earth	28171-05-24 09:50 G	12010449.66	12010449.91	12010450.16	0.0088	0.0022 *
Mars	28171-12-10 04:05 G	12010649.44	12010649.67	12010649.98	0.0088	0.0056
Moon	28172-05-25 18:29 G	12010817.01	12010817.27	12010817.54	0.0088	0.0011
Earth	28172-05-25 19:55 G	12010817.09	12010817.33	12010817.60	0.0088	0.0013 *
Earth	28173-05-28 06:29 G	12011184.52	12011184.77	12011185.03	0.0088	0.0003
Moon	28173-05-28 08:53 G	12011184.62	12011184.87	12011185.12	0.0088	0.0004 *
Moon	28174-05-30 13:41 G	12011551.81	12011552.07	12011552.33	0.0088	0.0010
Earth	28174-05-30 16:48 G	12011551.95	12011552.20	12011552.46	0.0088	0.0007 *
Earth	28175-06-02 03:07 G	12011919.39	12011919.63	12011919.89	0.0088	0.0017
Moon	28175-06-02 06:57 G	12011919.54	12011919.79	12011920.05	0.0088	0.0015 *
Moon	28176-06-03 10:19 G	12012286.70	12012286.93	12012287.18	0.0088	0.0029
Earth	28176-06-03 13:41 G	12012286.84	12012287.07	12012287.33	0.0088	0.0027 *
Earth	28177-06-06 00:14 G	12012654.28	12012654.51	12012654.74	0.0088	0.0036
Moon	28177-06-06 03:21 G	12012654.40	12012654.64	12012654.89	0.0088	0.0033 *
Moon	28178-06-08 08:53 G	12013021.67	12013021.87	12013022.08	0.0088	0.0048
Earth	28178-06-08 10:19 G	12013021.73	12013021.93	12013022.17	0.0088	0.0046 *
Earth	28179-06-10 20:24 G	12013389.18	12013389.35	12013389.58	0.0088	0.0056
Moon	28179-06-10 21:36 G	12013389.20	12013389.40	12013389.63	0.0088	0.0053 *
Earth	28180-06-12 07:12 G	12013756.64	12013756.80	12013756.98	0.0088	0.0065
Moon	28180-06-12 07:12 G	12013756.66	12013756.80	12013756.98	0.0088	0.0068 *
Moon	28181-06-14 15:36 G	12014124.01	12014124.15	12014124.31	0.0088	0.0072
Earth	28181-06-14 17:17 G	12014124.11	12014124.22	12014124.38	0.0088	0.0075 *
Earth	28182-06-17 03:36 G	12014491.60	12014491.65	12014491.75	0.0088	0.0084
Moon	28182-06-17 06:43 G	12014491.74	12014491.78	12014491.83	0.0088	0.0086 *

Venus	28205-09-18 19:55 G	12022985.22	12022985.33	12022985.47	0.0089	0.0072
Venus	28206-05-02 08:53 G	12023210.71	12023210.87	12023211.07	0.0089	0.0054
Venus	28206-12-13 22:05 G	12023436.23	12023436.42	12023436.64	0.0089	0.0035
Venus	28207-07-27 11:31 G	12023661.76	12023661.98	12023662.19	0.0089	0.0016
Venus	28208-03-09 00:29 G	12023887.30	12023887.52	12023887.74	0.0089	0.0003
Venus	28208-10-20 13:12 G	12024112.85	12024113.05	12024113.27	0.0089	0.0022
Venus	28209-06-03 02:38 G	12024338.41	12024338.61	12024338.81	0.0089	0.0040
Venus	28210-01-14 15:21 G	12024563.99	12024564.14	12024564.32	0.0089	0.0059
Venus	28210-08-28 04:05 G	12024789.59	12024789.67	12024789.80	0.0089	0.0078
Saturn	28210-09-12 00:29 G	12024804.08	12024804.52	12024805.10	0.0089	0.0057
Mercury	28220-08-20 14:24 G	12028435.06	12028435.10	12028435.19	0.0089	0.0083
Mercury	28220-11-16 17:31 G	12028523.15	12028523.23	12028523.35	0.0089	0.0074
Mercury	28221-02-12 20:53 G	12028611.25	12028611.37	12028611.50	0.0089	0.0063
Mercury	28221-05-11 23:45 G	12028699.36	12028699.49	12028699.65	0.0089	0.0054
Mercury	28221-08-08 02:53 G	12028787.47	12028787.62	12028787.78	0.0089	0.0044
Mercury	28221-11-04 06:00 G	12028875.59	12028875.75	12028875.92	0.0089	0.0035
Mercury	28222-01-31 08:53 G	12028963.71	12028963.87	12028964.05	0.0089	0.0025
Mercury	28222-04-29 12:00 G	12029051.83	12029052.00	12029052.18	0.0089	0.0015
Mercury	28222-07-26 14:53 G	12029139.95	12029140.12	12029140.30	0.0089	0.0006
Mercury	28222-10-22 18:00 G	12029228.07	12029228.25	12029228.43	0.0089	0.0004
Mercury	28223-01-18 20:53 G	12029316.19	12029316.37	12029316.55	0.0089	0.0013
Mercury	28223-04-16 23:45 G	12029404.32	12029404.49	12029404.66	0.0089	0.0022
Mercury	28223-07-14 02:24 G	12029492.45	12029492.60	12029492.78	0.0089	0.0032
Mercury	28223-10-10 05:31 G	12029580.58	12029580.73	12029580.89	0.0089	0.0041
Mercury	28224-01-06 08:24 G	12029668.71	12029668.85	12029669.00	0.0089	0.0050
Mercury	28224-04-03 11:02 G	12029756.84	12029756.96	12029757.10	0.0089	0.0060
Mercury	28224-06-30 13:55 G	12029844.98	12029845.08	12029845.20	0.0089	0.0069
Mercury	28224-09-26 16:48 G	12029933.13	12029933.20	12029933.30	0.0089	0.0078
Mercury	28224-12-23 19:41 G	12030021.30	12030021.32	12030021.36	0.0089	0.0087
Earth	28247-11-11 07:12 G	12038378.71	12038378.80	12038378.94	0.0090	0.0081

Moon	28247-11-11 10:48 G	12038378.84	12038378.95	12038379.10	0.0090	0.0078 *
Moon	28248-11-12 16:48 G	12038746.08	12038746.20	12038746.38	0.0090	0.0073
Earth	28248-11-12 20:24 G	12038746.21	12038746.35	12038746.53	0.0090	0.0071 *
Earth	28249-11-15 09:21 G	12039113.73	12039113.89	12039114.11	0.0090	0.0061
Moon	28249-11-15 12:43 G	12039113.84	12039114.03	12039114.24	0.0090	0.0058 *
Mars	28250-01-02 20:09 G	12039162.31	12039162.34	12039162.43	0.0090	0.0088
Moon	28250-11-17 21:21 G	12039481.19	12039481.39	12039481.59	0.0090	0.0052
Earth	28250-11-17 23:02 G	12039481.25	12039481.46	12039481.68	0.0090	0.0050 *
Earth	28251-11-20 12:00 G	12039848.78	12039849.00	12039849.25	0.0090	0.0040
Moon	28251-11-20 13:12 G	12039848.83	12039849.05	12039849.31	0.0090	0.0039 *
Mars	28251-11-27 12:29 G	12039855.75	12039856.02	12039856.30	0.0090	0.0022
Earth	28252-11-22 00:57 G	12040216.32	12040216.54	12040216.81	0.0090	0.0030
Moon	28252-11-22 01:26 G	12040216.34	12040216.56	12040216.81	0.0090	0.0032 *
Mars	28253-10-21 03:50 G	12040549.43	12040549.66	12040549.93	0.0090	0.0044
Moon	28253-11-24 12:57 G	12040583.78	12040584.04	12040584.31	0.0090	0.0017
Earth	28253-11-24 14:38 G	12040583.86	12040584.11	12040584.37	0.0090	0.0019 *
Earth	28254-11-27 03:36 G	12040951.40	12040951.65	12040951.92	0.0090	0.0009
Moon	28254-11-27 05:45 G	12040951.50	12040951.74	12040952.00	0.0090	0.0009 *
Moon	28255-11-29 13:12 G	12041318.79	12041319.05	12041319.32	0.0090	0.0004
Earth	28255-11-29 16:48 G	12041318.94	12041319.20	12041319.46	0.0090	0.0002 *
Earth	28256-12-01 05:45 G	12041686.48	12041686.74	12041686.99	0.0090	0.0013
Moon	28256-12-01 09:07 G	12041686.63	12041686.88	12041687.13	0.0090	0.0012 *
Moon	28257-12-03 14:53 G	12042053.88	12042054.12	12042054.38	0.0090	0.0024
Earth	28257-12-03 18:29 G	12042054.03	12042054.27	12042054.53	0.0090	0.0024 *
Earth	28258-12-06 07:26 G	12042421.58	12042421.81	12042422.06	0.0090	0.0034
Moon	28258-12-06 10:33 G	12042421.70	12042421.94	12042422.19	0.0090	0.0033 *
Moon	28259-12-08 18:00 G	12042789.05	12042789.25	12042789.48	0.0090	0.0045
Earth	28259-12-08 20:09 G	12042789.13	12042789.34	12042789.58	0.0090	0.0045 *
Earth	28260-12-10 08:53 G	12043156.69	12043156.87	12043157.10	0.0090	0.0055
Moon	28260-12-10 10:33 G	12043156.75	12043156.94	12043157.17	0.0090	0.0055 *



Earth	28261-12-12 22:05 G	12043524.26	12043524.42	12043524.61	0.0089	0.0065
Moon	28261-12-12 22:05 G	12043524.27	12043524.42	12043524.61	0.0089	0.0066 *
Moon	28262-12-15 09:36 G	12043891.78	12043891.90	12043892.07	0.0089	0.0075
Earth	28262-12-15 11:02 G	12043891.83	12043891.96	12043892.11	0.0089	0.0075 *
Earth	28263-12-17 23:45 G	12044259.43	12044259.49	12044259.59	0.0089	0.0085
Moon	28263-12-18 01:26 G	12044259.51	12044259.56	12044259.67	0.0089	0.0085 *
Venus	28286-08-11 21:21 G	12052532.32	12052532.39	12052532.51	0.0089	0.0081
Venus	28287-03-25 10:33 G	12052757.80	12052757.94	12052758.11	0.0089	0.0062
Venus	28287-11-05 23:45 G	12052983.30	12052983.49	12052983.69	0.0089	0.0043
Venus	28288-06-18 12:29 G	12053208.82	12053209.02	12053209.25	0.0089	0.0025
Venus	28289-01-30 01:41 G	12053434.35	12053434.57	12053434.79	0.0089	0.0006
Venus	28289-09-12 14:38 G	12053659.89	12053660.11	12053660.33	0.0089	0.0013
Venus	28290-04-26 03:21 G	12053885.44	12053885.64	12053885.85	0.0089	0.0032
Venus	28290-12-07 16:33 G	12054111.01	12054111.19	12054111.37	0.0089	0.0050
Venus	28291-07-21 05:17 G	12054336.60	12054336.72	12054336.87	0.0089	0.0069
Venus	28292-03-02 18:29 G	12054562.23	12054562.27	12054562.31	0.0089	0.0087
Mercury	28301-03-05 19:26 G	12057851.31	12057851.31	12057851.34	0.0088	0.0088
Mercury	28301-06-01 21:07 G	12057939.33	12057939.38	12057939.44	0.0088	0.0080
Mercury	28301-08-28 22:33 G	12058027.37	12058027.44	12058027.52	0.0088	0.0073
Mercury	28301-11-25 00:00 G	12058115.42	12058115.50	12058115.60	0.0088	0.0066
Mercury	28302-02-21 01:26 G	12058203.47	12058203.56	12058203.67	0.0088	0.0059
Mercury	28302-05-20 02:53 G	12058291.52	12058291.62	12058291.75	0.0088	0.0053
Mercury	28302-08-16 04:33 G	12058379.58	12058379.69	12058379.82	0.0088	0.0045
Mercury	28302-11-12 06:14 G	12058467.63	12058467.76	12058467.89	0.0088	0.0038
Mercury	28303-02-08 07:41 G	12058555.69	12058555.82	12058555.96	0.0088	0.0031
Mercury	28303-05-07 09:21 G	12058643.75	12058643.89	12058644.02	0.0088	0.0023
Mercury	28303-08-03 10:48 G	12058731.81	12058731.95	12058732.09	0.0088	0.0016
Mercury	28303-10-30 12:14 G	12058819.88	12058820.01	12058820.16	0.0088	0.0010
Mercury	28304-01-26 13:55 G	12058907.94	12058908.08	12058908.22	0.0088	0.0002
Mercury	28304-04-23 15:36 G	12058996.00	12058996.15	12058996.29	0.0088	0.0006

Mercury	28304-07-20 17:02 G	12059084.07	12059084.21	12059084.35	0.0088	0.0013
Mercury	28304-10-16 18:43 G	12059172.14	12059172.28	12059172.41	0.0088	0.0021
Mercury	28305-01-12 19:55 G	12059260.21	12059260.33	12059260.48	0.0088	0.0029
Mercury	28305-04-10 21:36 G	12059348.28	12059348.40	12059348.54	0.0088	0.0035
Mercury	28305-07-07 23:17 G	12059436.35	12059436.47	12059436.60	0.0088	0.0043
Mercury	28305-10-04 00:43 G	12059524.42	12059524.53	12059524.66	0.0088	0.0050
Mercury	28305-12-31 02:24 G	12059612.50	12059612.60	12059612.71	0.0088	0.0057
Mercury	28306-03-29 03:50 G	12059700.58	12059700.66	12059700.77	0.0088	0.0065
Mercury	28306-06-25 05:31 G	12059788.66	12059788.73	12059788.82	0.0088	0.0072
Mercury	28306-09-21 07:26 G	12059876.75	12059876.81	12059876.87	0.0088	0.0080
Mercury	28306-12-18 08:38 G	12059964.86	12059964.86	12059964.89	0.0088	0.0088
Earth	28329-05-12 02:09 G	12068145.56	12068145.59	12068145.67	0.0088	0.0086
Moon	28330-05-14 09:07 G	12068512.76	12068512.88	12068513.05	0.0088	0.0072
Earth	28330-05-14 12:29 G	12068512.93	12068513.02	12068513.17	0.0088	0.0077 *
Earth	28331-05-16 23:02 G	12068880.31	12068880.46	12068880.64	0.0088	0.0067
Moon	28331-05-17 01:41 G	12068880.43	12068880.57	12068880.74	0.0088	0.0071 *
Moon	28332-05-18 07:12 G	12069247.63	12069247.80	12069248.02	0.0088	0.0054
Earth	28332-05-18 09:50 G	12069247.71	12069247.91	12069248.10	0.0088	0.0057 *
Earth	28333-05-20 19:26 G	12069615.12	12069615.31	12069615.55	0.0088	0.0048
Moon	28333-05-20 19:55 G	12069615.14	12069615.33	12069615.56	0.0088	0.0052 *
Mars	28333-08-27 22:48 G	12069714.17	12069714.45	12069714.76	0.0088	0.0046
Earth	28334-05-23 05:45 G	12069982.52	12069982.74	12069982.98	0.0088	0.0038
Moon	28334-05-23 06:43 G	12069982.56	12069982.78	12069983.02	0.0088	0.0034 *
Moon	28335-05-25 14:24 G	12070349.86	12070350.10	12070350.35	0.0088	0.0032
Earth	28335-05-25 16:05 G	12070349.94	12070350.17	12070350.42	0.0088	0.0028 *
Mars	28335-07-25 06:00 G	12070410.42	12070410.75	12070411.08	0.0088	0.0028
Earth	28336-05-27 02:24 G	12070717.35	12070717.60	12070717.86	0.0088	0.0018
Moon	28336-05-27 05:17 G	12070717.48	12070717.72	12070717.98	0.0088	0.0014 *
Moon	28337-05-29 09:07 G	12071084.63	12071084.88	12071085.14	0.0088	0.0013
Earth	28337-05-29 12:43 G	12071084.77	12071085.03	12071085.29	0.0088	0.0008 *

Earth	28338-05-31 22:48 G	12071452.20	12071452.45	12071452.71	0.0088	0.0002
Moon	28338-06-01 02:24 G	12071452.35	12071452.60	12071452.86	0.0088	0.0006 *
Moon	28339-06-03 06:00 G	12071819.50	12071819.75	12071820.00	0.0088	0.0007
Earth	28339-06-03 09:07 G	12071819.63	12071819.88	12071820.14	0.0088	0.0012 *
Earth	28340-06-04 19:12 G	12072187.07	12072187.30	12072187.57	0.0088	0.0022
Moon	28340-06-04 21:36 G	12072187.16	12072187.40	12072187.66	0.0088	0.0026 *
Moon	28341-06-07 04:05 G	12072554.45	12072554.67	12072554.92	0.0088	0.0028
Earth	28341-06-07 05:31 G	12072554.51	12072554.73	12072554.99	0.0088	0.0032 *
Moon	28342-06-09 15:50 G	12072921.95	12072922.16	12072922.41	0.0088	0.0046
Earth	28342-06-09 16:05 G	12072921.96	12072922.17	12072922.41	0.0088	0.0041 *
Earth	28343-06-12 02:38 G	12073289.41	12073289.61	12073289.83	0.0088	0.0051
Moon	28343-06-12 04:05 G	12073289.47	12073289.67	12073289.88	0.0088	0.0047 *
Moon	28344-06-13 10:33 G	12073656.79	12073656.94	12073657.14	0.0088	0.0065
Earth	28344-06-13 12:43 G	12073656.87	12073657.03	12073657.24	0.0088	0.0061 *
Earth	28345-06-15 23:31 G	12074024.33	12074024.48	12074024.63	0.0088	0.0070
Moon	28345-06-16 02:24 G	12074024.45	12074024.60	12074024.78	0.0088	0.0066 *
Moon	28346-06-18 06:14 G	12074391.70	12074391.76	12074391.84	0.0088	0.0084
Earth	28346-06-18 09:21 G	12074391.81	12074391.89	12074392.02	0.0088	0.0080 *
Moon	28347-06-20 23:02 G	12074759.44	12074759.46	12074759.55	0.0088	0.0086
Venus	28369-12-22 03:21 G	12082979.58	12082979.64	12082979.74	0.0089	0.0082
Venus	28370-08-04 16:19 G	12083205.05	12083205.18	12083205.35	0.0089	0.0064
Venus	28371-03-18 05:31 G	12083430.55	12083430.73	12083430.93	0.0089	0.0045
Venus	28371-10-29 18:29 G	12083656.07	12083656.27	12083656.49	0.0089	0.0027
Venus	28372-06-11 07:55 G	12083881.61	12083881.83	12083882.05	0.0089	0.0008
Venus	28373-01-22 20:53 G	12084107.15	12084107.37	12084107.59	0.0089	0.0011
Venus	28373-09-05 09:36 G	12084332.70	12084332.90	12084333.12	0.0089	0.0030
Venus	28374-04-18 22:33 G	12084558.27	12084558.44	12084558.64	0.0089	0.0049
Venus	28374-11-30 11:45 G	12084783.86	12084783.99	12084784.14	0.0089	0.0067
Venus	28375-07-14 00:29 G	12085009.49	12085009.52	12085009.60	0.0089	0.0086
Mercury	28385-05-18 11:45 G	12088605.94	12088605.99	12088606.07	0.0089	0.0083

Mercury	28385-08-14 14:53 G	12088694.03	12088694.12	12088694.23	0.0089	0.0073
Mercury	28385-11-10 18:00 G	12088782.13	12088782.25	12088782.39	0.0089	0.0064
Mercury	28386-02-06 20:53 G	12088870.24	12088870.37	12088870.53	0.0089	0.0054
Mercury	28386-05-06 00:00 G	12088958.36	12088958.50	12088958.67	0.0089	0.0044
Mercury	28386-08-02 03:21 G	12089046.47	12089046.64	12089046.80	0.0089	0.0035
Mercury	28386-10-29 06:14 G	12089134.59	12089134.76	12089134.93	0.0089	0.0025
Mercury	28387-01-25 09:21 G	12089222.71	12089222.89	12089223.06	0.0089	0.0016
Mercury	28387-04-23 12:14 G	12089310.83	12089311.01	12089311.19	0.0089	0.0006
Mercury	28387-07-20 15:07 G	12089398.96	12089399.13	12089399.31	0.0089	0.0004
Mercury	28387-10-16 18:00 G	12089487.08	12089487.25	12089487.43	0.0089	0.0013
Mercury	28388-01-12 21:07 G	12089575.21	12089575.38	12089575.55	0.0089	0.0022
Mercury	28388-04-09 23:45 G	12089663.33	12089663.49	12089663.67	0.0089	0.0032
Mercury	28388-07-07 02:38 G	12089751.46	12089751.61	12089751.78	0.0089	0.0042
Mercury	28388-10-03 05:45 G	12089839.60	12089839.74	12089839.89	0.0089	0.0050
Mercury	28388-12-30 08:24 G	12089927.73	12089927.85	12089927.99	0.0089	0.0060
Mercury	28389-03-28 11:17 G	12090015.87	12090015.97	12090016.09	0.0089	0.0069
Mercury	28389-06-24 14:09 G	12090104.02	12090104.09	12090104.18	0.0089	0.0078
Mercury	28389-09-20 17:02 G	12090192.19	12090192.21	12090192.25	0.0089	0.0088
Earth	28411-11-11 09:50 G	12098278.88	12098278.91	12098278.97	0.0090	0.0088
Earth	28412-11-12 22:48 G	12098646.34	12098646.45	12098646.59	0.0090	0.0078
Moon	28412-11-13 00:57 G	12098646.42	12098646.54	12098646.71	0.0090	0.0075 *
Moon	28413-11-15 11:02 G	12099013.81	12099013.96	12099014.11	0.0090	0.0071
Earth	28413-11-15 11:45 G	12099013.84	12099013.99	12099014.18	0.0090	0.0068 *
Moon	28414-11-18 00:43 G	12099381.32	12099381.53	12099381.75	0.0090	0.0054
Earth	28414-11-18 01:12 G	12099381.35	12099381.55	12099381.75	0.0090	0.0057 *
Mars	28415-07-13 17:17 G	12099618.99	12099619.22	12099619.48	0.0090	0.0047
Earth	28415-11-20 13:55 G	12099748.87	12099749.08	12099749.31	0.0090	0.0047
Moon	28415-11-20 14:38 G	12099748.93	12099749.11	12099749.34	0.0090	0.0051 *
Moon	28416-11-22 00:29 G	12100116.29	12100116.52	12100116.79	0.0090	0.0033
Earth	28416-11-22 03:21 G	12100116.41	12100116.64	12100116.88	0.0090	0.0036 *

Mars	28417-06-06 08:09 G	12100312.57	12100312.84	12100313.13	0.0090	0.0019
Earth	28417-11-24 16:19 G	12100483.94	12100484.18	12100484.44	0.0090	0.0026
Moon	28417-11-24 19:41 G	12100484.08	12100484.32	12100484.56	0.0090	0.0029 *
Moon	28418-11-27 02:24 G	12100851.34	12100851.60	12100851.86	0.0090	0.0011
Earth	28418-11-27 05:45 G	12100851.49	12100851.74	12100852.00	0.0090	0.0015 *
Mars	28419-04-30 22:48 G	12101006.38	12101006.45	12101006.58	0.0090	0.0084
Earth	28419-11-29 18:43 G	12101219.03	12101219.28	12101219.55	0.0090	0.0005
Moon	28419-11-29 22:33 G	12101219.19	12101219.44	12101219.70	0.0090	0.0009 *
Moon	28420-12-01 05:02 G	12101586.46	12101586.71	12101586.97	0.0090	0.0011
Earth	28420-12-01 08:09 G	12101586.58	12101586.84	12101587.10	0.0090	0.0007 *
Earth	28421-12-03 20:53 G	12101954.13	12101954.37	12101954.64	0.0090	0.0018
Moon	28421-12-04 00:00 G	12101954.24	12101954.50	12101954.76	0.0090	0.0013 *
Moon	28422-12-06 08:24 G	12102321.63	12102321.85	12102322.10	0.0090	0.0033
Earth	28422-12-06 10:05 G	12102321.68	12102321.92	12102322.17	0.0090	0.0028 *
Moon	28423-12-08 22:48 G	12102689.22	12102689.45	12102689.71	0.0090	0.0035
Earth	28423-12-08 22:48 G	12102689.23	12102689.45	12102689.70	0.0090	0.0039 *
Earth	28424-12-10 11:31 G	12103056.79	12103056.98	12103057.22	0.0090	0.0050
Moon	28424-12-10 12:14 G	12103056.83	12103057.01	12103057.23	0.0090	0.0054 *
Moon	28425-12-12 22:48 G	12103424.25	12103424.45	12103424.66	0.0090	0.0055
Earth	28425-12-13 00:43 G	12103424.36	12103424.53	12103424.74	0.0090	0.0060 *
Earth	28426-12-15 13:41 G	12103791.92	12103792.07	12103792.24	0.0089	0.0070
Moon	28426-12-15 16:05 G	12103792.06	12103792.17	12103792.34	0.0089	0.0075 *
Moon	28427-12-17 23:02 G	12104159.34	12104159.46	12104159.62	0.0089	0.0076
Earth	28427-12-18 02:09 G	12104159.51	12104159.59	12104159.73	0.0089	0.0081 *
Venus	28451-06-27 18:14 G	12112752.16	12112752.26	12112752.41	0.0089	0.0072
Venus	28452-02-08 07:26 G	12112977.65	12112977.81	12112978.00	0.0089	0.0053
Venus	28452-09-20 20:09 G	12113203.15	12113203.34	12113203.56	0.0089	0.0035
Venus	28453-05-04 09:21 G	12113428.68	12113428.89	12113429.11	0.0089	0.0016
Venus	28453-12-15 22:33 G	12113654.22	12113654.44	12113654.66	0.0089	0.0003
Venus	28454-07-29 11:17 G	12113879.76	12113879.97	12113880.19	0.0089	0.0022

Venus	28455-03-12 00:00 G	12114105.32	12114105.50	12114105.71	0.0089	0.0041
Venus	28455-10-23 12:57 G	12114330.89	12114331.04	12114331.22	0.0089	0.0059
Venus	28456-06-05 01:41 G	12114556.49	12114556.57	12114556.70	0.0089	0.0078
Mercury	28465-11-30 18:29 G	12118022.25	12118022.27	12118022.30	0.0088	0.0087
Mercury	28466-02-26 19:55 G	12118110.28	12118110.33	12118110.40	0.0088	0.0080
Mercury	28466-05-25 21:21 G	12118198.32	12118198.39	12118198.48	0.0088	0.0073
Mercury	28466-08-21 23:02 G	12118286.37	12118286.46	12118286.55	0.0088	0.0065
Mercury	28466-11-18 00:29 G	12118374.42	12118374.52	12118374.63	0.0088	0.0058
Mercury	28467-02-14 01:55 G	12118462.47	12118462.58	12118462.70	0.0088	0.0051
Mercury	28467-05-13 03:21 G	12118550.53	12118550.64	12118550.77	0.0088	0.0044
Mercury	28467-08-09 05:02 G	12118638.59	12118638.71	12118638.84	0.0088	0.0037
Mercury	28467-11-05 06:43 G	12118726.65	12118726.78	12118726.91	0.0088	0.0030
Mercury	28468-02-01 08:09 G	12118814.70	12118814.84	12118814.98	0.0088	0.0022
Mercury	28468-04-29 09:36 G	12118902.77	12118902.90	12118903.04	0.0088	0.0015
Mercury	28468-07-26 11:17 G	12118990.83	12118990.97	12118991.11	0.0088	0.0008
Mercury	28468-10-22 12:43 G	12119078.89	12119079.03	12119079.18	0.0088	0.0002
Mercury	28469-01-18 14:24 G	12119166.96	12119167.10	12119167.24	0.0088	0.0007
Mercury	28469-04-16 15:50 G	12119255.02	12119255.16	12119255.30	0.0088	0.0014
Mercury	28469-07-13 17:31 G	12119343.09	12119343.23	12119343.37	0.0088	0.0021
Mercury	28469-10-09 18:57 G	12119431.16	12119431.29	12119431.43	0.0088	0.0029
Mercury	28470-01-05 20:24 G	12119519.23	12119519.35	12119519.49	0.0088	0.0037
Mercury	28470-04-03 22:05 G	12119607.30	12119607.42	12119607.55	0.0088	0.0044
Mercury	28470-06-30 23:31 G	12119695.38	12119695.48	12119695.61	0.0088	0.0051
Mercury	28470-09-27 01:12 G	12119783.45	12119783.55	12119783.66	0.0088	0.0058
Mercury	28470-12-24 02:38 G	12119871.53	12119871.61	12119871.72	0.0088	0.0066
Mercury	28471-03-22 04:19 G	12119959.62	12119959.68	12119959.77	0.0088	0.0073
Mercury	28471-06-18 06:14 G	12120047.70	12120047.76	12120047.82	0.0088	0.0081
Mercury	28471-09-14 07:55 G	12120135.83	12120135.83	12120135.83	0.0088	0.0088
Earth	28494-05-13 18:57 G	12128413.22	12128413.29	12128413.37	0.0088	0.0083
Moon	28494-05-13 20:38 G	12128413.32	12128413.36	12128413.48	0.0088	0.0084 *

Moon	28495-05-16 04:48 G	12128780.57	12128780.70	12128780.83	0.0088	0.0074
Earth	28495-05-16 05:02 G	12128780.59	12128780.71	12128780.87	0.0088	0.0074 *
Moon	28496-05-17 15:21 G	12129147.98	12129148.14	12129148.34	0.0088	0.0064
Earth	28496-05-17 15:36 G	12129147.99	12129148.15	12129148.34	0.0088	0.0064 *
Mars	28497-04-10 01:55 G	12129475.39	12129475.58	12129475.78	0.0088	0.0072
Earth	28497-05-20 01:55 G	12129515.39	12129515.58	12129515.79	0.0088	0.0054
Moon	28497-05-20 03:21 G	12129515.45	12129515.64	12129515.85	0.0088	0.0054 *
Moon	28498-05-22 09:07 G	12129882.67	12129882.88	12129883.13	0.0088	0.0044
Earth	28498-05-22 12:29 G	12129882.80	12129883.02	12129883.24	0.0088	0.0044 *
Mars	28499-03-07 07:41 G	12130171.47	12130171.82	12130172.16	0.0088	0.0002
Earth	28499-05-24 22:19 G	12130250.21	12130250.43	12130250.69	0.0088	0.0035
Moon	28499-05-25 01:41 G	12130250.34	12130250.57	12130250.81	0.0088	0.0034 *
Moon	28500-05-27 05:02 G	12130617.47	12130617.71	12130617.97	0.0088	0.0025
Earth	28500-05-27 08:38 G	12130617.63	12130617.86	12130618.12	0.0088	0.0025 *
Mars	28501-02-01 13:55 G	12130867.96	12130868.08	12130868.29	0.0088	0.0077
Earth	28501-05-29 19:12 G	12130985.04	12130985.30	12130985.55	0.0088	0.0014
Moon	28501-05-29 22:33 G	12130985.18	12130985.44	12130985.69	0.0088	0.0014 *
Moon	28502-06-01 02:38 G	12131352.36	12131352.61	12131352.86	0.0088	0.0005
Earth	28502-06-01 05:31 G	12131352.47	12131352.73	12131352.98	0.0088	0.0004 *
Earth	28503-06-03 15:36 G	12131719.90	12131720.15	12131720.41	0.0088	0.0006
Moon	28503-06-03 17:31 G	12131719.97	12131720.23	12131720.50	0.0088	0.0007 *
Moon	28504-06-05 01:41 G	12132087.33	12132087.57	12132087.82	0.0088	0.0016
Earth	28504-06-05 01:55 G	12132087.33	12132087.58	12132087.84	0.0088	0.0016 *
Moon	28505-06-07 11:17 G	12132454.73	12132454.97	12132455.24	0.0088	0.0027
Earth	28505-06-07 12:14 G	12132454.76	12132455.01	12132455.25	0.0088	0.0026 *
Earth	28506-06-09 22:33 G	12132822.21	12132822.44	12132822.68	0.0088	0.0036
Moon	28506-06-10 00:00 G	12132822.29	12132822.50	12132822.75	0.0088	0.0036 *
Moon	28507-06-12 05:45 G	12133189.52	12133189.74	12133189.97	0.0088	0.0046
Earth	28507-06-12 08:53 G	12133189.66	12133189.87	12133190.10	0.0088	0.0046 *
Earth	28508-06-13 19:12 G	12133557.11	12133557.30	12133557.50	0.0088	0.0056

Moon	28508-06-13 22:19 G	12133557.25	12133557.43	12133557.64	0.0088	0.0055 *
Moon	28509-06-16 01:41 G	12133924.42	12133924.57	12133924.75	0.0088	0.0067
Earth	28509-06-16 05:31 G	12133924.58	12133924.73	12133924.91	0.0088	0.0066 *
Earth	28510-06-18 15:36 G	12134292.05	12134292.15	12134292.30	0.0088	0.0076
Moon	28510-06-18 18:57 G	12134292.17	12134292.29	12134292.44	0.0088	0.0075 *
Moon	28511-06-20 23:31 G	12134659.47	12134659.48	12134659.54	0.0088	0.0087
Earth	28511-06-21 01:55 G	12134659.55	12134659.58	12134659.67	0.0088	0.0086
Venus	28534-11-06 23:31 G	12143199.38	12143199.48	12143199.63	0.0088	0.0074
Venus	28535-06-20 12:57 G	12143424.88	12143425.04	12143425.22	0.0088	0.0055
Venus	28536-02-01 01:55 G	12143650.39	12143650.58	12143650.80	0.0089	0.0037
Venus	28536-09-13 15:07 G	12143875.92	12143876.13	12143876.35	0.0089	0.0018
Venus	28537-04-27 04:19 G	12144101.46	12144101.68	12144101.90	0.0089	0.0001
Venus	28537-12-08 17:17 G	12144327.01	12144327.22	12144327.44	0.0089	0.0020
Venus	28538-07-22 06:00 G	12144552.57	12144552.75	12144552.97	0.0089	0.0039
Venus	28539-03-04 19:12 G	12144778.14	12144778.30	12144778.48	0.0089	0.0057
Venus	28539-10-16 07:55 G	12145003.74	12145003.83	12145003.97	0.0089	0.0076
Mercury	28550-02-13 08:53 G	12148776.83	12148776.87	12148776.95	0.0089	0.0083
Mercury	28550-05-12 12:00 G	12148864.92	12148865.00	12148865.12	0.0089	0.0073
Mercury	28550-08-08 15:21 G	12148953.02	12148953.14	12148953.27	0.0089	0.0063
Mercury	28550-11-04 18:14 G	12149041.13	12149041.26	12149041.42	0.0089	0.0054
Mercury	28551-01-31 21:21 G	12149129.24	12149129.39	12149129.55	0.0089	0.0044
Mercury	28551-04-30 00:29 G	12149217.36	12149217.52	12149217.69	0.0089	0.0034
Mercury	28551-07-27 03:21 G	12149305.48	12149305.64	12149305.82	0.0089	0.0025
Mercury	28551-10-23 06:29 G	12149393.60	12149393.77	12149393.95	0.0089	0.0015
Mercury	28552-01-19 09:36 G	12149481.72	12149481.90	12149482.08	0.0089	0.0006
Mercury	28552-04-16 12:29 G	12149569.84	12149570.02	12149570.20	0.0089	0.0004
Mercury	28552-07-13 15:21 G	12149657.97	12149658.14	12149658.32	0.0089	0.0013
Mercury	28552-10-09 18:14 G	12149746.09	12149746.26	12149746.44	0.0089	0.0023
Mercury	28553-01-05 21:07 G	12149834.22	12149834.38	12149834.55	0.0089	0.0032
Mercury	28553-04-04 00:14 G	12149922.35	12149922.51	12149922.67	0.0089	0.0041



Mercury	28553-07-01 02:53 G	12150010.49	12150010.62	12150010.78	0.0089	0.0051
Mercury	28553-09-27 05:45 G	12150098.62	12150098.74	12150098.88	0.0089	0.0060
Mercury	28553-12-24 08:38 G	12150186.76	12150186.86	12150186.98	0.0089	0.0069
Mercury	28554-03-22 11:31 G	12150274.91	12150274.98	12150275.07	0.0089	0.0079
Mercury	28554-06-18 14:38 G	12150363.08	12150363.11	12150363.14	0.0089	0.0088
Jupiter	28571-09-18 20:38 G	12156664.03	12156664.36	12156664.74	0.0090	0.0066
Moon	28576-11-13 01:26 G	12158546.47	12158546.56	12158546.67	0.0090	0.0082
Earth	28576-11-13 01:12 G	12158546.50	12158546.55	12158546.65	0.0090	0.0086 *
Moon	28577-11-15 13:26 G	12158913.96	12158914.06	12158914.21	0.0090	0.0079
Earth	28577-11-15 14:38 G	12158913.98	12158914.11	12158914.26	0.0090	0.0075 *
Earth	28578-11-18 03:07 G	12159281.48	12159281.63	12159281.83	0.0090	0.0065
Moon	28578-11-18 05:31 G	12159281.57	12159281.73	12159281.94	0.0090	0.0061 *
Mars	28579-02-26 21:07 G	12159382.24	12159382.38	12159382.58	0.0090	0.0072
Moon	28579-11-20 13:26 G	12159648.88	12159649.06	12159649.28	0.0090	0.0058
Earth	28579-11-20 16:33 G	12159648.99	12159649.19	12159649.41	0.0090	0.0054 *
Earth	28580-11-22 05:17 G	12160016.52	12160016.72	12160016.97	0.0090	0.0044
Moon	28580-11-22 09:07 G	12160016.66	12160016.88	12160017.12	0.0090	0.0040 *
Mars	28581-01-20 13:55 G	12160075.79	12160076.08	12160076.37	0.0090	0.0006
Moon	28581-11-24 14:53 G	12160383.90	12160384.12	12160384.37	0.0090	0.0037
Earth	28581-11-24 18:29 G	12160384.05	12160384.27	12160384.53	0.0090	0.0033 *
Earth	28582-11-27 07:41 G	12160751.58	12160751.82	12160752.08	0.0090	0.0022
Moon	28582-11-27 11:02 G	12160751.71	12160751.96	12160752.22	0.0090	0.0019 *
Mars	28582-12-15 04:05 G	12160769.46	12160769.67	12160769.89	0.0090	0.0059
Moon	28583-11-29 18:14 G	12161119.01	12161119.26	12161119.51	0.0090	0.0014
Earth	28583-11-29 21:07 G	12161119.12	12161119.38	12161119.64	0.0090	0.0011 *
Earth	28584-12-01 10:19 G	12161486.67	12161486.93	12161487.19	0.0090	0.0000
Moon	28584-12-01 11:45 G	12161486.72	12161486.99	12161487.26	0.0090	0.0003 *
Moon	28585-12-03 22:48 G	12161854.20	12161854.45	12161854.70	0.0090	0.0009
Earth	28585-12-03 23:17 G	12161854.22	12161854.47	12161854.74	0.0090	0.0012 *
Moon	28586-12-06 11:45 G	12162221.74	12162221.99	12162222.25	0.0090	0.0025

Earth	28586-12-06 12:29 G	12162221.77	12162222.02	12162222.27	0.0090	0.0022	*
Earth	28587-12-09 01:26 G	12162589.32	12162589.56	12162589.80	0.0090	0.0033	
Moon	28587-12-09 03:36 G	12162589.41	12162589.65	12162589.88	0.0090	0.0030	*
Moon	28588-12-10 12:00 G	12162956.77	12162957.00	12162957.23	0.0090	0.0046	
Earth	28588-12-10 14:24 G	12162956.88	12162957.10	12162957.33	0.0090	0.0044	*
Earth	28589-12-13 02:53 G	12163324.44	12163324.62	12163324.85	0.0090	0.0055	
Moon	28589-12-13 06:14 G	12163324.58	12163324.76	12163324.99	0.0090	0.0053	*
Moon	28590-12-15 12:29 G	12163691.87	12163692.02	12163692.20	0.0090	0.0068	
Earth	28590-12-15 16:19 G	12163692.01	12163692.18	12163692.36	0.0090	0.0065	*
Earth	28591-12-18 04:48 G	12164059.58	12164059.70	12164059.86	0.0090	0.0076	
Moon	28591-12-18 07:55 G	12164059.72	12164059.83	12164060.01	0.0090	0.0075	*
Moon	28592-12-19 14:53 G	12164427.09	12164427.12	12164427.18	0.0089	0.0088	
Earth	28592-12-19 18:00 G	12164427.19	12164427.25	12164427.33	0.0089	0.0086	
Venus	28615-10-01 02:24 G	12172746.53	12172746.60	12172746.70	0.0089	0.0081	
Venus	28616-05-13 15:07 G	12172972.00	12172972.13	12172972.31	0.0089	0.0063	
Venus	28616-12-25 04:19 G	12173197.51	12173197.68	12173197.89	0.0089	0.0044	
Venus	28617-08-07 17:17 G	12173423.02	12173423.22	12173423.44	0.0089	0.0026	
Venus	28618-03-21 06:29 G	12173648.55	12173648.77	12173648.99	0.0089	0.0007	
Venus	28618-11-01 19:26 G	12173874.09	12173874.31	12173874.53	0.0089	0.0012	
Venus	28619-06-15 07:55 G	12174099.64	12174099.83	12174100.05	0.0089	0.0031	
Venus	28620-01-26 21:07 G	12174325.20	12174325.38	12174325.57	0.0089	0.0049	
Venus	28620-09-08 09:36 G	12174550.78	12174550.90	12174551.06	0.0089	0.0068	
Venus	28621-04-21 22:33 G	12174776.41	12174776.44	12174776.51	0.0089	0.0086	
Mercury	28630-08-29 17:02 G	12178193.20	12178193.21	12178193.26	0.0088	0.0087	
Mercury	28630-11-25 18:43 G	12178281.23	12178281.28	12178281.35	0.0088	0.0079	
Mercury	28631-02-21 20:09 G	12178369.27	12178369.34	12178369.43	0.0088	0.0072	
Mercury	28631-05-20 21:50 G	12178457.32	12178457.41	12178457.51	0.0088	0.0065	
Mercury	28631-08-16 23:17 G	12178545.37	12178545.47	12178545.58	0.0088	0.0058	
Mercury	28631-11-13 00:43 G	12178633.43	12178633.53	12178633.65	0.0088	0.0051	
Mercury	28632-02-09 02:24 G	12178721.48	12178721.60	12178721.72	0.0088	0.0043	

Mercury	28632-05-07 03:50 G	12178809.54	12178809.66	12178809.79	0.0088	0.0036
Mercury	28632-08-03 05:17 G	12178897.59	12178897.72	12178897.86	0.0088	0.0029
Mercury	28632-10-30 06:57 G	12178985.65	12178985.79	12178985.93	0.0088	0.0022
Mercury	28633-01-26 08:24 G	12179073.72	12179073.85	12179073.99	0.0088	0.0015
Mercury	28633-04-24 10:05 G	12179161.78	12179161.92	12179162.06	0.0088	0.0007
Mercury	28633-07-21 11:31 G	12179249.84	12179249.98	12179250.12	0.0088	0.0001
Mercury	28633-10-17 13:12 G	12179337.91	12179338.05	12179338.19	0.0088	0.0008
Mercury	28634-01-13 14:38 G	12179425.97	12179426.11	12179426.25	0.0088	0.0015
Mercury	28634-04-11 16:05 G	12179514.04	12179514.17	12179514.31	0.0088	0.0022
Mercury	28634-07-08 17:45 G	12179602.11	12179602.24	12179602.38	0.0088	0.0029
Mercury	28634-10-04 19:12 G	12179690.18	12179690.30	12179690.44	0.0088	0.0037
Mercury	28634-12-31 20:53 G	12179778.25	12179778.37	12179778.50	0.0088	0.0044
Mercury	28635-03-29 22:33 G	12179866.33	12179866.44	12179866.56	0.0088	0.0051
Mercury	28635-06-26 00:00 G	12179954.40	12179954.50	12179954.61	0.0088	0.0059
Mercury	28635-09-22 01:41 G	12180042.48	12180042.57	12180042.67	0.0088	0.0066
Mercury	28635-12-19 03:07 G	12180130.56	12180130.63	12180130.72	0.0088	0.0074
Mercury	28636-03-16 04:48 G	12180218.66	12180218.70	12180218.76	0.0088	0.0081
Moon	28659-05-17 10:19 G	12188680.81	12188680.93	12188681.08	0.0088	0.0076
Earth	28659-05-17 11:17 G	12188680.90	12188680.97	12188681.10	0.0088	0.0081 *
Earth	28660-05-18 21:36 G	12189048.28	12189048.40	12189048.58	0.0088	0.0071
Moon	28660-05-18 23:45 G	12189048.39	12189048.49	12189048.64	0.0088	0.0075 *
Moon	28661-05-21 05:17 G	12189415.54	12189415.72	12189415.94	0.0088	0.0056
Earth	28661-05-21 08:09 G	12189415.68	12189415.84	12189416.05	0.0088	0.0061 *
Earth	28662-05-23 18:29 G	12189783.08	12189783.27	12189783.50	0.0088	0.0051
Moon	28662-05-23 22:33 G	12189783.25	12189783.44	12189783.64	0.0088	0.0055 *
Mars	28662-10-20 10:05 G	12189932.61	12189932.92	12189933.27	0.0088	0.0025
Moon	28663-05-26 01:26 G	12190150.35	12190150.56	12190150.81	0.0088	0.0037
Earth	28663-05-26 05:02 G	12190150.49	12190150.71	12190150.95	0.0088	0.0041 *
Earth	28664-05-27 15:07 G	12190517.91	12190518.13	12190518.39	0.0088	0.0031
Moon	28664-05-27 18:43 G	12190518.05	12190518.28	12190518.53	0.0088	0.0035 *

Mars	28664-09-15 15:50 G	12190628.89	12190629.16	12190629.46	0.0088	0.0050
Moon	28665-05-29 23:31 G	12190885.24	12190885.48	12190885.74	0.0088	0.0016
Earth	28665-05-30 01:26 G	12190885.32	12190885.56	12190885.82	0.0088	0.0021 *
Earth	28666-06-01 11:45 G	12191252.74	12191252.99	12191253.25	0.0088	0.0010
Moon	28666-06-01 12:57 G	12191252.78	12191253.04	12191253.31	0.0088	0.0014 *
Earth	28667-06-03 22:05 G	12191620.17	12191620.42	12191620.68	0.0088	0.0001
Moon	28667-06-03 22:05 G	12191620.17	12191620.42	12191620.67	0.0088	0.0005 *
Moon	28668-06-05 06:29 G	12191987.51	12191987.77	12191988.04	0.0088	0.0006
Earth	28668-06-05 08:09 G	12191987.59	12191987.84	12191988.10	0.0088	0.0011 *
Earth	28669-06-07 18:14 G	12192355.02	12192355.26	12192355.52	0.0088	0.0021
Moon	28669-06-07 20:53 G	12192355.13	12192355.37	12192355.61	0.0088	0.0025 *
Moon	28670-06-10 01:41 G	12192722.32	12192722.57	12192722.82	0.0088	0.0026
Earth	28670-06-10 04:48 G	12192722.46	12192722.70	12192722.94	0.0088	0.0031 *
Earth	28671-06-12 14:53 G	12193089.90	12193090.12	12193090.35	0.0088	0.0041
Moon	28671-06-12 18:29 G	12193090.06	12193090.27	12193090.50	0.0088	0.0046 *
Moon	28672-06-13 22:05 G	12193457.21	12193457.42	12193457.64	0.0088	0.0047
Earth	28672-06-14 00:57 G	12193457.36	12193457.54	12193457.77	0.0088	0.0052 *
Earth	28673-06-16 11:45 G	12193824.81	12193824.99	12193825.18	0.0088	0.0061
Moon	28673-06-16 14:24 G	12193824.95	12193825.10	12193825.30	0.0088	0.0066 *
Moon	28674-06-18 20:24 G	12194192.21	12194192.35	12194192.53	0.0088	0.0067
Earth	28674-06-18 21:36 G	12194192.29	12194192.40	12194192.58	0.0088	0.0072 *
Earth	28675-06-21 08:38 G	12194559.77	12194559.86	12194559.96	0.0088	0.0081
Moon	28675-06-21 09:07 G	12194559.83	12194559.88	12194559.96	0.0088	0.0085 *
Moon	28676-06-22 18:57 G	12194927.28	12194927.29	12194927.35	0.0088	0.0087
Venus	28699-02-09 07:26 G	12203193.74	12203193.81	12203193.89	0.0088	0.0083
Venus	28699-09-22 20:09 G	12203419.21	12203419.34	12203419.51	0.0088	0.0065
Venus	28700-05-06 09:36 G	12203644.72	12203644.90	12203645.09	0.0088	0.0046
Venus	28700-12-17 22:33 G	12203870.24	12203870.44	12203870.66	0.0089	0.0028
Venus	28701-07-31 11:45 G	12204095.77	12204095.99	12204096.21	0.0089	0.0009
Venus	28702-03-14 00:43 G	12204321.32	12204321.53	12204321.75	0.0089	0.0010

Venus	28702-10-25 13:26 G	12204546.87	12204547.06	12204547.29	0.0089	0.0029
Venus	28703-06-08 02:53 G	12204772.44	12204772.62	12204772.81	0.0089	0.0047
Venus	28704-01-19 16:05 G	12204998.02	12204998.17	12204998.32	0.0089	0.0065
Venus	28704-09-01 04:33 G	12205223.64	12205223.69	12205223.78	0.0089	0.0084
Mercury	28714-11-12 06:43 G	12208947.71	12208947.78	12208947.84	0.0089	0.0082
Mercury	28715-02-08 09:21 G	12209035.80	12209035.89	12209036.01	0.0089	0.0073
Mercury	28715-05-07 12:29 G	12209123.91	12209124.02	12209124.16	0.0089	0.0063
Mercury	28715-08-03 15:50 G	12209212.02	12209212.16	12209212.30	0.0089	0.0053
Mercury	28715-10-30 18:29 G	12209300.13	12209300.27	12209300.44	0.0089	0.0044
Mercury	28716-01-26 21:50 G	12209388.25	12209388.41	12209388.58	0.0089	0.0034
Mercury	28716-04-24 00:57 G	12209476.37	12209476.54	12209476.71	0.0089	0.0024
Mercury	28716-07-21 03:50 G	12209564.49	12209564.66	12209564.84	0.0089	0.0015
Mercury	28716-10-17 06:57 G	12209652.61	12209652.79	12209652.97	0.0089	0.0005
Mercury	28717-01-13 09:50 G	12209740.73	12209740.91	12209741.09	0.0089	0.0005
Mercury	28717-04-11 12:43 G	12209828.86	12209829.03	12209829.21	0.0089	0.0014
Mercury	28717-07-08 15:50 G	12209916.99	12209917.16	12209917.33	0.0089	0.0023
Mercury	28717-10-04 18:43 G	12210005.12	12210005.28	12210005.45	0.0089	0.0033
Mercury	28717-12-31 21:21 G	12210093.25	12210093.39	12210093.56	0.0089	0.0043
Mercury	28718-03-30 00:29 G	12210181.38	12210181.52	12210181.67	0.0089	0.0051
Mercury	28718-06-26 03:36 G	12210269.52	12210269.65	12210269.78	0.0089	0.0061
Mercury	28718-09-22 06:00 G	12210357.66	12210357.75	12210357.88	0.0089	0.0070
Mercury	28718-12-19 08:53 G	12210445.81	12210445.87	12210445.97	0.0089	0.0080
Mercury	28719-03-17 12:00 G	12210533.99	12210534.00	12210534.03	0.0089	0.0088
Jupiter	28737-11-13 05:45 G	12217349.26	12217349.74	12217350.28	0.0090	0.0022
Earth	28741-11-16 16:33 G	12218814.11	12218814.19	12218814.31	0.0090	0.0083
Moon	28741-11-16 19:26 G	12218814.21	12218814.31	12218814.42	0.0090	0.0081 *
Moon	28742-11-19 01:41 G	12219181.45	12219181.57	12219181.75	0.0090	0.0074
Earth	28742-11-19 06:00 G	12219181.60	12219181.75	12219181.91	0.0090	0.0072 *
Earth	28743-11-21 18:29 G	12219549.11	12219549.27	12219549.48	0.0090	0.0062
Moon	28743-11-21 22:19 G	12219549.25	12219549.43	12219549.63	0.0090	0.0060 *

Mars	28744-09-06 17:31 G	12219838.98	12219839.23	12219839.52	0.0090	0.0031
Moon	28744-11-23 04:19 G	12219916.49	12219916.68	12219916.90	0.0090	0.0053
Earth	28744-11-23 07:41 G	12219916.63	12219916.82	12219917.05	0.0090	0.0051 *
Earth	28745-11-25 20:53 G	12220284.15	12220284.37	12220284.61	0.0090	0.0040
Moon	28745-11-25 23:31 G	12220284.26	12220284.48	12220284.74	0.0090	0.0038 *
Mars	28746-08-01 09:50 G	12220532.66	12220532.91	12220533.19	0.0090	0.0035
Moon	28746-11-28 08:09 G	12220651.62	12220651.84	12220652.09	0.0090	0.0031
Earth	28746-11-28 09:50 G	12220651.68	12220651.91	12220652.17	0.0090	0.0029 *
Earth	28747-11-30 23:02 G	12221019.22	12221019.46	12221019.73	0.0090	0.0018
Moon	28747-12-01 00:14 G	12221019.25	12221019.51	12221019.78	0.0090	0.0015 *
Earth	28748-12-02 12:29 G	12221386.76	12221387.02	12221387.28	0.0090	0.0006
Moon	28748-12-02 13:12 G	12221386.80	12221387.05	12221387.30	0.0090	0.0009 *
Moon	28749-12-04 23:45 G	12221754.23	12221754.49	12221754.76	0.0090	0.0007
Earth	28749-12-05 01:41 G	12221754.31	12221754.57	12221754.83	0.0090	0.0005 *
Earth	28750-12-07 14:38 G	12222121.86	12222122.11	12222122.37	0.0090	0.0016
Moon	28750-12-07 17:02 G	12222121.97	12222122.21	12222122.46	0.0090	0.0013 *
Moon	28751-12-10 00:14 G	12222489.28	12222489.51	12222489.77	0.0090	0.0030
Earth	28751-12-10 04:05 G	12222489.43	12222489.67	12222489.92	0.0090	0.0027 *
Earth	28752-12-11 17:02 G	12222856.98	12222857.21	12222857.45	0.0090	0.0038
Moon	28752-12-11 20:24 G	12222857.12	12222857.35	12222857.60	0.0090	0.0035 *
Moon	28753-12-14 02:09 G	12223224.40	12223224.59	12223224.82	0.0090	0.0053
Earth	28753-12-14 06:00 G	12223224.55	12223224.75	12223224.98	0.0090	0.0049 *
Earth	28754-12-16 18:57 G	12223592.11	12223592.29	12223592.49	0.0090	0.0060
Moon	28754-12-16 21:36 G	12223592.22	12223592.40	12223592.63	0.0090	0.0057 *
Moon	28755-12-19 06:14 G	12223959.62	12223959.76	12223959.90	0.0090	0.0074
Earth	28755-12-19 07:41 G	12223959.69	12223959.82	12223960.00	0.0090	0.0071 *
Earth	28756-12-20 20:24 G	12224327.28	12224327.35	12224327.49	0.0090	0.0082
Moon	28756-12-20 22:33 G	12224327.31	12224327.44	12224327.58	0.0090	0.0077 *
Venus	28780-08-15 23:02 G	12232966.35	12232966.46	12232966.61	0.0089	0.0072
Venus	28781-03-29 12:00 G	12233191.84	12233192.00	12233192.19	0.0089	0.0054

Venus	28781-11-10 01:12 G	12233417.36	12233417.55	12233417.76	0.0089	0.0035
Venus	28782-06-23 14:09 G	12233642.88	12233643.09	12233643.32	0.0089	0.0017
Venus	28783-02-04 03:07 G	12233868.42	12233868.63	12233868.86	0.0089	0.0003
Venus	28783-09-17 15:50 G	12234093.96	12234094.16	12234094.39	0.0089	0.0021
Venus	28784-04-30 04:48 G	12234319.51	12234319.70	12234319.91	0.0089	0.0039
Venus	28784-12-11 17:45 G	12234545.09	12234545.24	12234545.42	0.0089	0.0058
Venus	28785-07-25 06:43 G	12234770.68	12234770.78	12234770.90	0.0089	0.0076
Mercury	28795-05-27 16:05 G	12238364.15	12238364.17	12238364.22	0.0088	0.0086
Mercury	28795-08-23 17:31 G	12238452.18	12238452.23	12238452.31	0.0088	0.0079
Mercury	28795-11-19 19:26 G	12238540.23	12238540.31	12238540.39	0.0088	0.0071
Mercury	28796-02-15 20:53 G	12238628.28	12238628.37	12238628.47	0.0088	0.0064
Mercury	28796-05-13 22:19 G	12238716.33	12238716.43	12238716.54	0.0088	0.0057
Mercury	28796-08-09 23:45 G	12238804.38	12238804.49	12238804.61	0.0088	0.0050
Mercury	28796-11-06 01:12 G	12238892.43	12238892.55	12238892.68	0.0088	0.0043
Mercury	28797-02-02 02:38 G	12238980.49	12238980.61	12238980.75	0.0088	0.0036
Mercury	28797-05-01 04:19 G	12239068.55	12239068.68	12239068.82	0.0088	0.0028
Mercury	28797-07-28 05:45 G	12239156.61	12239156.74	12239156.88	0.0088	0.0021
Mercury	28797-10-24 07:26 G	12239244.67	12239244.81	12239244.95	0.0088	0.0014
Mercury	28798-01-20 08:53 G	12239332.73	12239332.87	12239333.01	0.0088	0.0006
Mercury	28798-04-18 10:33 G	12239420.80	12239420.94	12239421.08	0.0088	0.0002
Mercury	28798-07-15 12:00 G	12239508.86	12239509.00	12239509.14	0.0088	0.0008
Mercury	28798-10-11 13:26 G	12239596.93	12239597.06	12239597.20	0.0088	0.0016
Mercury	28799-01-07 14:53 G	12239684.99	12239685.12	12239685.27	0.0088	0.0024
Mercury	28799-04-05 16:33 G	12239773.06	12239773.19	12239773.33	0.0088	0.0030
Mercury	28799-07-02 18:14 G	12239861.13	12239861.26	12239861.39	0.0088	0.0038
Mercury	28799-09-28 19:41 G	12239949.20	12239949.32	12239949.45	0.0088	0.0045
Mercury	28799-12-25 21:21 G	12240037.28	12240037.39	12240037.51	0.0088	0.0052
Mercury	28800-03-22 22:48 G	12240125.35	12240125.45	12240125.56	0.0088	0.0060
Mercury	28800-06-19 00:29 G	12240213.43	12240213.52	12240213.62	0.0088	0.0067
Mercury	28800-09-15 01:55 G	12240301.52	12240301.58	12240301.67	0.0088	0.0075

Mercury	28800-12-12 03:36 G	12240389.61	12240389.65	12240389.71	0.0088	0.0082
Earth	28823-05-17 18:14 G	12248581.26	12248581.26	12248581.31	0.0088	0.0088
Moon	28823-05-17 20:53 G	12248581.35	12248581.37	12248581.46	0.0088	0.0086
Moon	28824-05-19 01:12 G	12248948.47	12248948.55	12248948.68	0.0088	0.0080
Earth	28824-05-19 04:33 G	12248948.60	12248948.69	12248948.84	0.0088	0.0078 *
Earth	28825-05-21 14:53 G	12249315.98	12249316.12	12249316.31	0.0088	0.0068
Moon	28825-05-21 18:57 G	12249316.13	12249316.29	12249316.46	0.0088	0.0066 *
Moon	28826-05-23 21:50 G	12249683.26	12249683.41	12249683.63	0.0088	0.0060
Earth	28826-05-24 01:55 G	12249683.39	12249683.58	12249683.78	0.0088	0.0057 *
Mars	28826-06-03 15:50 G	12249693.90	12249694.16	12249694.47	0.0088	0.0050
Earth	28827-05-26 12:00 G	12250050.80	12250051.00	12250051.23	0.0088	0.0047
Moon	28827-05-26 14:09 G	12250050.89	12250051.09	12250051.34	0.0088	0.0046 *
Mars	28828-04-29 20:24 G	12250390.03	12250390.35	12250390.69	0.0088	0.0024
Moon	28828-05-27 20:24 G	12250418.14	12250418.35	12250418.59	0.0088	0.0038
Earth	28828-05-27 22:19 G	12250418.21	12250418.43	12250418.68	0.0088	0.0037 *
Earth	28829-05-30 08:38 G	12250785.63	12250785.86	12250786.12	0.0088	0.0027
Moon	28829-05-30 08:53 G	12250785.63	12250785.87	12250786.14	0.0088	0.0025 *
Earth	28830-06-01 19:12 G	12251153.05	12251153.30	12251153.56	0.0088	0.0016
Moon	28830-06-01 20:09 G	12251153.11	12251153.34	12251153.59	0.0088	0.0018 *
Moon	28831-06-04 03:21 G	12251520.38	12251520.64	12251520.91	0.0088	0.0005
Earth	28831-06-04 05:17 G	12251520.47	12251520.72	12251520.98	0.0088	0.0006 *
Earth	28832-06-05 15:36 G	12251887.89	12251888.15	12251888.41	0.0088	0.0005
Moon	28832-06-05 18:43 G	12251888.03	12251888.28	12251888.53	0.0088	0.0004 *
Moon	28833-06-07 22:05 G	12252255.18	12252255.42	12252255.69	0.0088	0.0018
Earth	28833-06-08 01:41 G	12252255.33	12252255.57	12252255.83	0.0088	0.0016 *
Earth	28834-06-10 11:45 G	12252622.76	12252622.99	12252623.25	0.0088	0.0026
Moon	28834-06-10 15:21 G	12252622.90	12252623.14	12252623.40	0.0088	0.0026 *
Moon	28835-06-12 18:57 G	12252990.07	12252990.29	12252990.53	0.0088	0.0038
Earth	28835-06-12 22:19 G	12252990.20	12252990.43	12252990.67	0.0088	0.0036 *
Earth	28836-06-14 07:55 G	12253357.63	12253357.83	12253358.07	0.0088	0.0047



Moon	28836-06-14 10:05 G	12253357.72	12253357.92	12253358.17	0.0088	0.0046 *
Moon	28837-06-16 16:48 G	12253725.04	12253725.20	12253725.41	0.0088	0.0058
Earth	28837-06-16 18:29 G	12253725.09	12253725.27	12253725.48	0.0088	0.0057 *
Moon	28838-06-19 04:19 G	12254092.53	12254092.68	12254092.88	0.0088	0.0066
Earth	28838-06-19 04:48 G	12254092.55	12254092.70	12254092.88	0.0088	0.0067 *
Earth	28839-06-21 15:07 G	12254460.02	12254460.13	12254460.27	0.0088	0.0077
Moon	28839-06-21 16:19 G	12254460.10	12254460.18	12254460.32	0.0088	0.0079 *
Moon	28840-06-22 23:31 G	12254827.44	12254827.48	12254827.53	0.0088	0.0086
Earth	28840-06-23 01:41 G	12254827.55	12254827.57	12254827.61	0.0088	0.0087
Venus	28863-12-26 04:19 G	12263413.58	12263413.68	12263413.82	0.0088	0.0074
Venus	28864-08-07 17:17 G	12263639.07	12263639.22	12263639.41	0.0088	0.0056
Venus	28865-03-21 06:43 G	12263864.58	12263864.78	12263864.98	0.0088	0.0037
Venus	28865-11-01 19:41 G	12264090.11	12264090.32	12264090.54	0.0088	0.0018
Venus	28866-06-15 09:07 G	12264315.65	12264315.88	12264316.10	0.0089	0.0002
Venus	28867-01-26 21:50 G	12264541.20	12264541.41	12264541.64	0.0089	0.0019
Venus	28867-09-09 10:33 G	12264766.76	12264766.94	12264767.16	0.0089	0.0038
Venus	28868-04-21 23:45 G	12264992.33	12264992.49	12264992.68	0.0089	0.0056
Venus	28868-12-03 12:57 G	12265217.93	12265218.04	12265218.17	0.0089	0.0074
Mercury	28879-08-09 03:36 G	12269118.60	12269118.65	12269118.73	0.0089	0.0082
Mercury	28879-11-05 06:57 G	12269206.69	12269206.79	12269206.90	0.0089	0.0072
Mercury	28880-02-01 10:05 G	12269294.80	12269294.92	12269295.05	0.0089	0.0063
Mercury	28880-04-29 12:57 G	12269382.91	12269383.04	12269383.20	0.0089	0.0053
Mercury	28880-07-26 16:05 G	12269471.02	12269471.17	12269471.34	0.0089	0.0043
Mercury	28880-10-22 19:26 G	12269559.14	12269559.31	12269559.47	0.0089	0.0033
Mercury	28881-01-18 22:19 G	12269647.26	12269647.43	12269647.61	0.0089	0.0024
Mercury	28881-04-17 01:26 G	12269735.38	12269735.56	12269735.74	0.0089	0.0014
Mercury	28881-07-14 04:19 G	12269823.50	12269823.68	12269823.86	0.0089	0.0005
Mercury	28881-10-10 07:26 G	12269911.63	12269911.81	12269911.99	0.0089	0.0005
Mercury	28882-01-06 10:19 G	12269999.76	12269999.93	12270000.11	0.0089	0.0015
Mercury	28882-04-04 13:12 G	12270087.88	12270088.05	12270088.23	0.0089	0.0024

Mercury	28882-07-01 16:19 G	12270176.01	12270176.18	12270176.34	0.0089	0.0033
Mercury	28882-09-27 18:57 G	12270264.15	12270264.29	12270264.46	0.0089	0.0043
Mercury	28882-12-24 21:50 G	12270352.28	12270352.41	12270352.57	0.0089	0.0053
Mercury	28883-03-23 00:57 G	12270440.42	12270440.54	12270440.67	0.0089	0.0061
Mercury	28883-06-19 03:36 G	12270528.56	12270528.65	12270528.77	0.0089	0.0071
Mercury	28883-09-15 06:29 G	12270616.71	12270616.77	12270616.86	0.0089	0.0080
Moon	28905-11-16 16:19 G	12278714.13	12278714.18	12278714.28	0.0090	0.0086
Earth	28906-11-19 08:38 G	12279081.77	12279081.86	12279082.01	0.0090	0.0080
Moon	28906-11-19 12:14 G	12279081.96	12279082.01	12279082.13	0.0090	0.0085 *
Moon	28907-11-21 19:12 G	12279449.15	12279449.30	12279449.50	0.0090	0.0065
Earth	28907-11-21 22:05 G	12279449.27	12279449.42	12279449.60	0.0090	0.0069 *
Mars	28908-04-22 21:07 G	12279602.16	12279602.38	12279602.62	0.0090	0.0054
Earth	28908-11-23 11:02 G	12279816.78	12279816.96	12279817.17	0.0090	0.0058
Moon	28908-11-23 13:12 G	12279816.88	12279817.05	12279817.27	0.0090	0.0062 *
Moon	28909-11-25 23:17 G	12280184.25	12280184.47	12280184.69	0.0090	0.0042
Earth	28909-11-26 00:00 G	12280184.29	12280184.50	12280184.73	0.0090	0.0047 *
Mars	28910-03-17 14:09 G	12280295.81	12280296.09	12280296.38	0.0090	0.0011
Moon	28910-11-28 12:29 G	12280551.79	12280552.02	12280552.27	0.0090	0.0040
Earth	28910-11-28 12:57 G	12280551.82	12280552.04	12280552.29	0.0090	0.0036 *
Earth	28911-12-01 01:55 G	12280919.35	12280919.58	12280919.85	0.0090	0.0025
Moon	28911-12-01 03:07 G	12280919.40	12280919.63	12280919.89	0.0090	0.0021 *
Mars	28912-02-09 06:29 G	12280989.62	12280989.77	12280989.93	0.0090	0.0075
Moon	28912-12-02 12:29 G	12281286.77	12281287.02	12281287.29	0.0090	0.0018
Earth	28912-12-02 15:21 G	12281286.88	12281287.14	12281287.39	0.0090	0.0013 *
Earth	28913-12-05 04:19 G	12281654.42	12281654.68	12281654.94	0.0090	0.0002
Moon	28913-12-05 07:26 G	12281654.56	12281654.81	12281655.07	0.0090	0.0003 *
Moon	28914-12-07 13:55 G	12282021.82	12282022.08	12282022.34	0.0090	0.0005
Earth	28914-12-07 17:17 G	12282021.97	12282022.22	12282022.49	0.0090	0.0010 *
Earth	28915-12-10 06:14 G	12282389.52	12282389.76	12282390.02	0.0090	0.0021
Moon	28915-12-10 10:19 G	12282389.68	12282389.93	12282390.18	0.0090	0.0025 *

Moon	28916-12-11 16:48 G	12282756.96	12282757.20	12282757.45	0.0090	0.0028
Earth	28916-12-11 19:41 G	12282757.08	12282757.32	12282757.57	0.0090	0.0032 *
Earth	28917-12-14 08:09 G	12283124.64	12283124.84	12283125.09	0.0090	0.0044
Moon	28917-12-14 11:02 G	12283124.75	12283124.96	12283125.20	0.0090	0.0047 *
Moon	28918-12-16 20:24 G	12283492.16	12283492.35	12283492.57	0.0090	0.0051
Earth	28918-12-16 21:21 G	12283492.21	12283492.39	12283492.62	0.0090	0.0055 *
Earth	28919-12-19 10:19 G	12283859.79	12283859.93	12283860.14	0.0090	0.0066
Moon	28919-12-19 10:33 G	12283859.79	12283859.94	12283860.13	0.0090	0.0069 *
Earth	28920-12-20 23:17 G	12284227.36	12284227.47	12284227.63	0.0090	0.0077
Moon	28920-12-21 00:00 G	12284227.39	12284227.50	12284227.67	0.0090	0.0074 *
Earth	28921-12-23 12:43 G	12284594.98	12284595.03	12284595.10	0.0090	0.0087
Venus	28944-11-18 07:26 G	12292960.73	12292960.81	12292960.90	0.0089	0.0081
Venus	28945-07-01 20:09 G	12293186.21	12293186.34	12293186.51	0.0089	0.0063
Venus	28946-02-12 09:07 G	12293411.71	12293411.88	12293412.09	0.0089	0.0045
Venus	28946-09-25 22:19 G	12293637.22	12293637.43	12293637.64	0.0089	0.0026
Venus	28947-05-09 11:17 G	12293862.75	12293862.97	12293863.19	0.0089	0.0007
Venus	28947-12-21 00:14 G	12294088.30	12294088.51	12294088.73	0.0089	0.0011
Venus	28948-08-02 12:57 G	12294313.85	12294314.04	12294314.26	0.0089	0.0030
Venus	28949-03-16 01:55 G	12294539.40	12294539.58	12294539.77	0.0089	0.0048
Venus	28949-10-27 14:24 G	12294764.98	12294765.10	12294765.27	0.0089	0.0067
Venus	28950-06-10 03:21 G	12294990.60	12294990.64	12294990.73	0.0089	0.0085
Mercury	28960-02-22 15:07 G	12298535.10	12298535.13	12298535.18	0.0088	0.0084
Mercury	28960-05-20 16:33 G	12298623.14	12298623.19	12298623.27	0.0088	0.0077
Mercury	28960-08-16 18:00 G	12298711.18	12298711.25	12298711.35	0.0088	0.0070
Mercury	28960-11-12 19:55 G	12298799.23	12298799.33	12298799.42	0.0088	0.0063
Mercury	28961-02-08 21:07 G	12298887.28	12298887.38	12298887.50	0.0088	0.0056
Mercury	28961-05-07 22:48 G	12298975.33	12298975.45	12298975.57	0.0088	0.0048
Mercury	28961-08-04 00:14 G	12299063.39	12299063.51	12299063.64	0.0088	0.0041
Mercury	28961-10-31 01:41 G	12299151.45	12299151.57	12299151.70	0.0088	0.0034
Mercury	28962-01-27 03:07 G	12299239.50	12299239.63	12299239.77	0.0088	0.0027

Mercury	28962-04-25 04:48 G	12299327.56	12299327.70	12299327.84	0.0088	0.0020
Mercury	28962-07-22 06:14 G	12299415.63	12299415.76	12299415.90	0.0088	0.0013
Mercury	28962-10-18 07:55 G	12299503.69	12299503.83	12299503.97	0.0088	0.0005
Mercury	28963-01-14 09:21 G	12299591.75	12299591.89	12299592.03	0.0088	0.0002
Mercury	28963-04-12 11:02 G	12299679.82	12299679.96	12299680.10	0.0088	0.0010
Mercury	28963-07-09 12:29 G	12299767.88	12299768.02	12299768.16	0.0088	0.0017
Mercury	28963-10-05 13:55 G	12299855.95	12299856.08	12299856.22	0.0088	0.0024
Mercury	28964-01-01 15:36 G	12299944.02	12299944.15	12299944.28	0.0088	0.0031
Mercury	28964-03-29 16:48 G	12300032.09	12300032.20	12300032.34	0.0088	0.0040
Mercury	28964-06-25 18:29 G	12300120.16	12300120.27	12300120.40	0.0088	0.0046
Mercury	28964-09-21 20:09 G	12300208.23	12300208.34	12300208.46	0.0088	0.0054
Mercury	28964-12-18 21:36 G	12300296.31	12300296.40	12300296.51	0.0088	0.0061
Mercury	28965-03-16 23:17 G	12300384.39	12300384.47	12300384.57	0.0088	0.0068
Mercury	28965-06-13 00:43 G	12300472.47	12300472.53	12300472.61	0.0088	0.0076
Mercury	28965-09-09 02:24 G	12300560.57	12300560.60	12300560.65	0.0088	0.0083
Earth	28988-05-19 12:14 G	12308848.95	12308849.01	12308849.09	0.0088	0.0084
Moon	28988-05-19 15:07 G	12308849.06	12308849.13	12308849.26	0.0088	0.0081 *
Moon	28989-05-21 19:26 G	12309216.21	12309216.31	12309216.44	0.0088	0.0078
Earth	28989-05-21 22:19 G	12309216.31	12309216.43	12309216.59	0.0088	0.0074 *
Mars	28990-01-15 22:05 G	12309455.27	12309455.42	12309455.63	0.0088	0.0075
Earth	28990-05-24 08:38 G	12309583.70	12309583.86	12309584.05	0.0088	0.0064
Moon	28990-05-24 10:48 G	12309583.78	12309583.95	12309584.17	0.0088	0.0060 *
Moon	28991-05-26 18:29 G	12309951.09	12309951.27	12309951.47	0.0088	0.0057
Earth	28991-05-26 18:43 G	12309951.10	12309951.28	12309951.51	0.0088	0.0054 *
Mars	28991-12-13 01:41 G	12310151.23	12310151.57	12310151.92	0.0088	0.0002
Moon	28992-05-28 05:02 G	12310318.49	12310318.71	12310318.97	0.0088	0.0040
Earth	28992-05-28 05:31 G	12310318.51	12310318.73	12310318.96	0.0088	0.0043 *
Earth	28993-05-30 15:50 G	12310685.93	12310686.16	12310686.41	0.0088	0.0033
Moon	28993-05-30 17:17 G	12310686.01	12310686.22	12310686.46	0.0088	0.0037 *
Mars	28993-11-08 05:31 G	12310847.58	12310847.73	12310847.97	0.0088	0.0073

Moon	28994-06-01 23:17 G	12311053.22	12311053.47	12311053.74	0.0088	0.0019
Earth	28994-06-02 02:24 G	12311053.36	12311053.60	12311053.85	0.0088	0.0022 *
Earth	28995-06-04 12:43 G	12311420.78	12311421.03	12311421.29	0.0088	0.0011
Moon	28995-06-04 15:36 G	12311420.91	12311421.15	12311421.41	0.0088	0.0016 *
Moon	28996-06-05 19:26 G	12311788.05	12311788.31	12311788.57	0.0088	0.0003
Earth	28996-06-05 23:17 G	12311788.21	12311788.47	12311788.72	0.0088	0.0001 *
Earth	28997-06-08 09:21 G	12312155.64	12312155.89	12312156.15	0.0088	0.0010
Moon	28997-06-08 12:43 G	12312155.77	12312156.03	12312156.29	0.0088	0.0006 *
Moon	28998-06-10 16:33 G	12312522.97	12312523.19	12312523.45	0.0088	0.0025
Earth	28998-06-10 19:26 G	12312523.07	12312523.31	12312523.57	0.0088	0.0021 *
Earth	28999-06-13 05:45 G	12312890.50	12312890.74	12312890.98	0.0088	0.0031
Moon	28999-06-13 07:26 G	12312890.57	12312890.81	12312891.07	0.0088	0.0027 *
Earth	29000-06-15 15:36 G	12313257.95	12313258.15	12313258.40	0.0088	0.0042
Moon	29000-06-15 15:36 G	12313257.96	12313258.15	12313258.38	0.0088	0.0046 *

# 30TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 30th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	29001-06-18 01:41 G		12313625.35	12313625.57	12313625.80	0.0088	0.0048	
Earth	29001-06-18 02:09 G		12313625.40	12313625.59	12313625.81	0.0088	0.0052 *	
Earth	29002-06-20 12:00 G		12313992.85	12313993.00	12313993.21	0.0088	0.0063	
Moon	29002-06-20 14:09 G		12313992.95	12313993.09	12313993.27	0.0088	0.0067 *	

Moon	29003-06-22 19:26 G	12314360.17	12314360.31	12314360.49	0.0088	0.0069
Earth	29003-06-22 22:33 G	12314360.32	12314360.44	12314360.60	0.0088	0.0073 *
Earth	29004-06-24 08:53 G	12314727.81	12314727.87	12314727.97	0.0088	0.0083
Moon	29004-06-24 12:29 G	12314728.00	12314728.02	12314728.05	0.0088	0.0087
Venus	29028-03-30 12:29 G	12323407.97	12323408.02	12323408.12	0.0088	0.0083
Venus	29028-11-11 01:26 G	12323633.43	12323633.56	12323633.74	0.0088	0.0065
Venus	29029-06-24 15:07 G	12323858.94	12323859.13	12323859.32	0.0088	0.0046
Venus	29030-02-05 04:05 G	12324084.47	12324084.67	12324084.89	0.0088	0.0027
Venus	29030-09-18 17:02 G	12324310.00	12324310.21	12324310.44	0.0088	0.0009
Venus	29031-05-02 06:14 G	12324535.54	12324535.76	12324535.98	0.0088	0.0010
Venus	29031-12-13 19:26 G	12324761.10	12324761.31	12324761.52	0.0089	0.0028
Venus	29032-07-26 08:09 G	12324986.67	12324986.84	12324987.04	0.0089	0.0047
Venus	29033-03-08 21:21 G	12325212.25	12325212.39	12325212.55	0.0089	0.0065
Venus	29033-10-20 10:05 G	12325437.87	12325437.92	12325438.02	0.0089	0.0084
Mercury	29044-05-07 01:12 G	12329289.50	12329289.55	12329289.64	0.0089	0.0081
Mercury	29044-08-03 04:19 G	12329377.59	12329377.68	12329377.81	0.0089	0.0071
Mercury	29044-10-30 07:41 G	12329465.70	12329465.82	12329465.96	0.0089	0.0061
Mercury	29045-01-26 10:48 G	12329553.81	12329553.95	12329554.11	0.0089	0.0051
Mercury	29045-04-24 13:41 G	12329641.93	12329642.07	12329642.25	0.0089	0.0042
Mercury	29045-07-21 17:02 G	12329730.04	12329730.21	12329730.38	0.0089	0.0032
Mercury	29045-10-17 20:09 G	12329818.17	12329818.34	12329818.51	0.0089	0.0022
Mercury	29046-01-13 23:02 G	12329906.29	12329906.46	12329906.65	0.0089	0.0013
Mercury	29046-04-12 02:09 G	12329994.41	12329994.59	12329994.77	0.0089	0.0003
Mercury	29046-07-09 05:02 G	12330082.54	12330082.71	12330082.90	0.0089	0.0007
Mercury	29046-10-05 08:09 G	12330170.67	12330170.84	12330171.02	0.0089	0.0016
Mercury	29047-01-01 11:02 G	12330258.80	12330258.96	12330259.14	0.0089	0.0026
Mercury	29047-03-30 13:55 G	12330346.93	12330347.08	12330347.25	0.0089	0.0035
Mercury	29047-06-26 17:02 G	12330435.06	12330435.21	12330435.37	0.0089	0.0044
Mercury	29047-09-22 19:41 G	12330523.20	12330523.32	12330523.48	0.0089	0.0054
Mercury	29047-12-19 22:48 G	12330611.33	12330611.45	12330611.58	0.0089	0.0063

Mercury	29048-03-17 01:55 G	12330699.48	12330699.58	12330699.68	0.0089	0.0072
Mercury	29048-06-13 04:19 G	12330787.63	12330787.68	12330787.77	0.0089	0.0082
Moon	29070-11-19 10:05 G	12338981.89	12338981.92	12338982.00	0.0090	0.0088
Earth	29070-11-19 12:57 G	12338981.99	12338982.04	12338982.11	0.0090	0.0087 *
Earth	29071-11-22 01:26 G	12339349.46	12339349.56	12339349.73	0.0090	0.0077
Moon	29071-11-22 02:24 G	12339349.49	12339349.60	12339349.78	0.0090	0.0076 *
Mars	29071-12-08 01:12 G	12339365.44	12339365.55	12339365.72	0.0090	0.0078
Earth	29072-11-23 15:07 G	12339716.96	12339717.13	12339717.31	0.0090	0.0065
Moon	29072-11-23 14:38 G	12339716.96	12339717.11	12339717.30	0.0090	0.0066 *
Mars	29073-10-31 19:41 G	12340059.05	12340059.32	12340059.62	0.0090	0.0013
Moon	29073-11-26 02:53 G	12340084.42	12340084.62	12340084.85	0.0090	0.0054
Earth	29073-11-26 04:05 G	12340084.47	12340084.67	12340084.89	0.0090	0.0054 *
Earth	29074-11-28 17:02 G	12340452.00	12340452.21	12340452.45	0.0090	0.0043
Moon	29074-11-28 19:41 G	12340452.11	12340452.32	12340452.55	0.0090	0.0043 *
Mars	29075-09-25 12:00 G	12340752.79	12340753.00	12340753.26	0.0090	0.0053
Moon	29075-12-01 02:53 G	12340819.39	12340819.62	12340819.89	0.0090	0.0032
Earth	29075-12-01 06:00 G	12340819.52	12340819.75	12340820.01	0.0090	0.0032 *
Earth	29076-12-02 19:12 G	12341187.05	12341187.30	12341187.56	0.0090	0.0020
Moon	29076-12-02 22:48 G	12341187.20	12341187.45	12341187.70	0.0090	0.0019 *
Moon	29077-12-05 04:33 G	12341554.45	12341554.69	12341554.96	0.0090	0.0009
Earth	29077-12-05 08:09 G	12341554.59	12341554.84	12341555.11	0.0090	0.0009 *
Earth	29078-12-07 21:21 G	12341922.13	12341922.39	12341922.65	0.0090	0.0003
Moon	29078-12-08 00:29 G	12341922.26	12341922.52	12341922.79	0.0090	0.0005 *
Moon	29079-12-10 07:41 G	12342289.58	12342289.82	12342290.08	0.0090	0.0013
Earth	29079-12-10 10:19 G	12342289.68	12342289.93	12342290.19	0.0090	0.0015 *
Earth	29080-12-11 23:31 G	12342657.23	12342657.48	12342657.72	0.0090	0.0026
Moon	29080-12-12 00:43 G	12342657.27	12342657.53	12342657.78	0.0090	0.0027 *
Moon	29081-12-14 12:14 G	12343024.78	12343025.01	12343025.23	0.0090	0.0036
Earth	29081-12-14 12:14 G	12343024.79	12343025.01	12343025.26	0.0090	0.0038 *
Moon	29082-12-17 00:43 G	12343392.33	12343392.53	12343392.77	0.0090	0.0051

Earth	29082-12-17 01:41 G	12343392.36	12343392.57	12343392.79	0.0090	0.0049	*
Earth	29083-12-19 14:53 G	12343759.93	12343760.12	12343760.31	0.0090	0.0060	
Moon	29083-12-19 17:02 G	12343760.02	12343760.21	12343760.40	0.0090	0.0059	*
Moon	29084-12-21 00:57 G	12344127.40	12344127.54	12344127.71	0.0090	0.0073	
Earth	29084-12-21 03:21 G	12344127.51	12344127.64	12344127.82	0.0090	0.0072	*
Earth	29085-12-23 16:19 G	12344495.11	12344495.18	12344495.31	0.0090	0.0083	
Moon	29085-12-23 20:09 G	12344495.24	12344495.34	12344495.47	0.0090	0.0080	*
Venus	29109-10-05 04:33 G	12353180.57	12353180.69	12353180.83	0.0089	0.0072	
Venus	29110-05-18 17:17 G	12353406.07	12353406.22	12353406.42	0.0089	0.0054	
Venus	29110-12-30 06:43 G	12353631.59	12353631.78	12353631.99	0.0089	0.0035	
Venus	29111-08-12 19:41 G	12353857.11	12353857.32	12353857.54	0.0089	0.0017	
Venus	29112-03-25 08:53 G	12354082.65	12354082.87	12354083.09	0.0089	0.0002	
Venus	29112-11-05 21:36 G	12354308.19	12354308.40	12354308.62	0.0089	0.0021	
Venus	29113-06-19 10:33 G	12354533.75	12354533.94	12354534.14	0.0089	0.0039	
Venus	29114-01-30 23:31 G	12354759.32	12354759.48	12354759.65	0.0089	0.0057	
Venus	29114-09-13 12:00 G	12354984.91	12354985.00	12354985.13	0.0089	0.0076	
Mercury	29124-11-20 14:24 G	12358706.06	12358706.10	12358706.15	0.0088	0.0083	
Mercury	29125-02-16 15:50 G	12358794.10	12358794.16	12358794.23	0.0088	0.0076	
Mercury	29125-05-15 17:17 G	12358882.14	12358882.22	12358882.31	0.0088	0.0069	
Mercury	29125-08-11 18:43 G	12358970.19	12358970.28	12358970.39	0.0088	0.0062	
Mercury	29125-11-07 20:09 G	12359058.24	12359058.34	12359058.46	0.0088	0.0055	
Mercury	29126-02-03 21:36 G	12359146.29	12359146.40	12359146.53	0.0088	0.0048	
Mercury	29126-05-02 23:02 G	12359234.35	12359234.46	12359234.60	0.0088	0.0041	
Mercury	29126-07-30 00:43 G	12359322.41	12359322.53	12359322.66	0.0088	0.0033	
Mercury	29126-10-26 02:24 G	12359410.47	12359410.60	12359410.73	0.0088	0.0026	
Mercury	29127-01-22 03:50 G	12359498.53	12359498.66	12359498.80	0.0088	0.0018	
Mercury	29127-04-20 05:17 G	12359586.59	12359586.72	12359586.86	0.0088	0.0011	
Mercury	29127-07-17 06:57 G	12359674.65	12359674.79	12359674.93	0.0088	0.0004	
Mercury	29127-10-13 08:24 G	12359762.71	12359762.85	12359762.99	0.0088	0.0004	
Mercury	29128-01-09 09:50 G	12359850.78	12359850.91	12359851.06	0.0088	0.0011	



Mercury	29128-04-06 11:31 G	12359938.84	12359938.98	12359939.12	0.0088	0.0018
Mercury	29128-07-03 12:57 G	12360026.91	12360027.04	12360027.18	0.0088	0.0025
Mercury	29128-09-29 14:38 G	12360114.98	12360115.11	12360115.24	0.0088	0.0033
Mercury	29128-12-26 16:05 G	12360203.05	12360203.17	12360203.30	0.0088	0.0040
Mercury	29129-03-24 17:31 G	12360291.12	12360291.23	12360291.36	0.0088	0.0048
Mercury	29129-06-20 18:57 G	12360379.19	12360379.29	12360379.41	0.0088	0.0055
Mercury	29129-09-16 20:38 G	12360467.27	12360467.36	12360467.47	0.0088	0.0062
Mercury	29129-12-13 22:19 G	12360555.35	12360555.43	12360555.52	0.0088	0.0070
Mercury	29130-03-11 23:45 G	12360643.43	12360643.49	12360643.57	0.0088	0.0077
Mercury	29130-06-08 01:26 G	12360731.53	12360731.56	12360731.60	0.0088	0.0085
Moon	29152-05-20 18:00 G	12368749.25	12368749.25	12368749.28	0.0088	0.0088
Earth	29153-05-23 06:29 G	12369116.70	12369116.77	12369116.89	0.0088	0.0081
Moon	29153-05-23 08:38 G	12369116.77	12369116.86	12369116.94	0.0088	0.0083 *
Moon	29154-05-25 16:19 G	12369484.04	12369484.18	12369484.36	0.0088	0.0068
Earth	29154-05-25 16:33 G	12369484.07	12369484.19	12369484.37	0.0088	0.0071 *
Moon	29155-05-28 01:55 G	12369851.41	12369851.58	12369851.77	0.0088	0.0063
Earth	29155-05-28 03:07 G	12369851.46	12369851.63	12369851.84	0.0088	0.0060 *
Mars	29155-07-28 10:05 G	12369912.60	12369912.92	12369913.26	0.0088	0.0026
Earth	29156-05-29 13:12 G	12370218.87	12370219.05	12370219.29	0.0088	0.0050
Moon	29156-05-29 15:21 G	12370218.95	12370219.14	12370219.38	0.0088	0.0047 *
Moon	29157-05-31 20:38 G	12370586.15	12370586.36	12370586.61	0.0088	0.0042
Earth	29157-05-31 23:45 G	12370586.28	12370586.49	12370586.74	0.0088	0.0039 *
Mars	29157-06-23 12:43 G	12370608.78	12370609.03	12370609.35	0.0088	0.0048
Earth	29158-06-03 10:19 G	12370953.69	12370953.93	12370954.18	0.0088	0.0028
Moon	29158-06-03 13:55 G	12370953.84	12370954.08	12370954.34	0.0088	0.0025 *
Moon	29159-06-05 17:31 G	12371320.98	12371321.23	12371321.48	0.0088	0.0020
Earth	29159-06-05 20:53 G	12371321.12	12371321.37	12371321.62	0.0088	0.0017 *
Earth	29160-06-07 07:12 G	12371688.54	12371688.80	12371689.06	0.0088	0.0006
Moon	29160-06-07 10:33 G	12371688.68	12371688.94	12371689.20	0.0088	0.0004 *
Moon	29161-06-09 15:50 G	12372055.91	12372056.16	12372056.41	0.0088	0.0002

Earth	29161-06-09 17:31 G	12372055.98	12372056.23	12372056.49	0.0088	0.0005	*
Earth	29162-06-12 03:50 G	12372423.41	12372423.66	12372423.91	0.0088	0.0015	
Moon	29162-06-12 04:33 G	12372423.44	12372423.69	12372423.97	0.0088	0.0018	*
Earth	29163-06-14 13:55 G	12372790.84	12372791.08	12372791.34	0.0088	0.0026	
Moon	29163-06-14 13:55 G	12372790.85	12372791.08	12372791.33	0.0088	0.0024	*
Moon	29164-06-15 22:19 G	12373158.20	12373158.43	12373158.68	0.0088	0.0040	
Earth	29164-06-16 00:00 G	12373158.29	12373158.50	12373158.75	0.0088	0.0037	*
Earth	29165-06-18 10:05 G	12373525.73	12373525.92	12373526.16	0.0088	0.0048	
Moon	29165-06-18 12:43 G	12373525.83	12373526.03	12373526.26	0.0088	0.0045	*
Moon	29166-06-20 17:02 G	12373893.05	12373893.21	12373893.42	0.0088	0.0061	
Earth	29166-06-20 20:38 G	12373893.18	12373893.36	12373893.57	0.0088	0.0058	*
Earth	29167-06-23 06:29 G	12374260.64	12374260.77	12374260.96	0.0088	0.0069	
Moon	29167-06-23 10:05 G	12374260.78	12374260.92	12374261.12	0.0088	0.0066	*
Moon	29168-06-24 13:26 G	12374628.00	12374628.06	12374628.19	0.0088	0.0082	
Earth	29168-06-24 17:02 G	12374628.12	12374628.21	12374628.34	0.0088	0.0079	*
Moon	29169-06-27 06:29 G	12374995.76	12374995.77	12374995.82	0.0088	0.0087	
Venus	29193-02-13 11:02 G	12383627.85	12383627.96	12383628.10	0.0088	0.0072	
Venus	29193-09-26 23:45 G	12383853.34	12383853.49	12383853.69	0.0088	0.0055	
Venus	29194-05-10 13:12 G	12384078.86	12384079.05	12384079.26	0.0088	0.0036	
Venus	29194-12-22 02:09 G	12384304.38	12384304.59	12384304.82	0.0088	0.0018	
Venus	29195-08-04 15:21 G	12384529.92	12384530.14	12384530.36	0.0088	0.0001	
Venus	29196-03-17 04:19 G	12384755.47	12384755.68	12384755.90	0.0088	0.0019	
Venus	29196-10-28 17:17 G	12384981.03	12384981.22	12384981.43	0.0089	0.0038	
Venus	29197-06-11 06:14 G	12385206.61	12385206.76	12385206.95	0.0089	0.0056	
Venus	29198-01-22 19:12 G	12385432.20	12385432.30	12385432.44	0.0089	0.0075	
Mercury	29208-11-05 20:09 G	12389372.34	12389372.34	12389372.36	0.0089	0.0089	
Mercury	29209-02-01 23:17 G	12389460.40	12389460.47	12389460.56	0.0089	0.0079	
Mercury	29209-05-01 02:24 G	12389548.50	12389548.60	12389548.73	0.0089	0.0069	
Mercury	29209-07-28 05:31 G	12389636.61	12389636.73	12389636.88	0.0089	0.0059	
Mercury	29209-10-24 08:53 G	12389724.72	12389724.87	12389725.02	0.0089	0.0049	

Mercury	29210-01-20 11:45 G	12389812.84	12389812.99	12389813.16	0.0089	0.0040
Mercury	29210-04-18 14:53 G	12389900.96	12389901.12	12389901.30	0.0089	0.0030
Mercury	29210-07-15 18:00 G	12389989.08	12389989.25	12389989.43	0.0089	0.0020
Mercury	29210-10-11 21:07 G	12390077.20	12390077.38	12390077.56	0.0089	0.0011
Mercury	29211-01-08 00:14 G	12390165.33	12390165.51	12390165.69	0.0089	0.0002
Mercury	29211-04-06 03:07 G	12390253.45	12390253.63	12390253.81	0.0089	0.0009
Mercury	29211-07-03 06:00 G	12390341.58	12390341.75	12390341.93	0.0089	0.0018
Mercury	29211-09-29 08:53 G	12390429.71	12390429.87	12390430.05	0.0089	0.0028
Mercury	29211-12-26 12:00 G	12390517.84	12390518.00	12390518.17	0.0089	0.0037
Mercury	29212-03-23 15:07 G	12390605.98	12390606.13	12390606.28	0.0089	0.0047
Mercury	29212-06-19 17:45 G	12390694.12	12390694.24	12390694.39	0.0089	0.0056
Mercury	29212-09-15 20:53 G	12390782.26	12390782.37	12390782.50	0.0089	0.0065
Mercury	29212-12-12 23:31 G	12390870.40	12390870.48	12390870.59	0.0089	0.0075
Mercury	29213-03-11 02:38 G	12390958.57	12390958.61	12390958.68	0.0089	0.0084
Earth	29235-11-22 06:00 G	12399249.69	12399249.75	12399249.87	0.0090	0.0084
Moon	29235-11-22 07:26 G	12399249.78	12399249.81	12399249.87	0.0090	0.0088 *
Moon	29236-11-23 17:02 G	12399617.07	12399617.21	12399617.41	0.0090	0.0069
Earth	29236-11-23 19:12 G	12399617.18	12399617.30	12399617.48	0.0090	0.0073 *
Mars	29237-06-17 01:12 G	12399822.30	12399822.55	12399822.84	0.0090	0.0036
Earth	29237-11-26 08:38 G	12399984.69	12399984.86	12399985.06	0.0090	0.0061
Moon	29237-11-26 11:17 G	12399984.81	12399984.97	12399985.15	0.0090	0.0066 *
Moon	29238-11-28 18:14 G	12400352.04	12400352.26	12400352.49	0.0090	0.0045
Earth	29238-11-28 21:36 G	12400352.21	12400352.40	12400352.64	0.0090	0.0050 *
Mars	29239-05-11 19:12 G	12400516.03	12400516.30	12400516.58	0.0090	0.0030
Earth	29239-12-01 11:02 G	12400719.73	12400719.96	12400720.19	0.0090	0.0038
Moon	29239-12-01 14:09 G	12400719.88	12400720.09	12400720.33	0.0090	0.0043 *
Moon	29240-12-02 20:24 G	12401087.11	12401087.35	12401087.61	0.0090	0.0022
Earth	29240-12-02 23:45 G	12401087.26	12401087.49	12401087.75	0.0090	0.0027 *
Earth	29241-12-05 12:57 G	12401454.79	12401455.04	12401455.30	0.0090	0.0015
Moon	29241-12-05 15:36 G	12401454.90	12401455.15	12401455.41	0.0090	0.0020 *

Moon	29242-12-08 00:29 G	12401822.27	12401822.52	12401822.77	0.0090	0.0001
Earth	29242-12-08 02:09 G	12401822.33	12401822.59	12401822.85	0.0090	0.0003 *
Earth	29243-12-10 14:53 G	12402189.87	12402190.12	12402190.38	0.0090	0.0009
Moon	29243-12-10 15:50 G	12402189.90	12402190.16	12402190.43	0.0090	0.0004 *
Earth	29244-12-12 03:50 G	12402557.41	12402557.66	12402557.92	0.0090	0.0020
Moon	29244-12-12 04:33 G	12402557.46	12402557.69	12402557.94	0.0090	0.0025 *
Moon	29245-12-14 14:53 G	12402924.88	12402925.12	12402925.39	0.0090	0.0028
Earth	29245-12-14 16:48 G	12402924.97	12402925.20	12402925.46	0.0090	0.0032 *
Earth	29246-12-17 05:31 G	12403292.53	12403292.73	12403292.98	0.0090	0.0044
Moon	29246-12-17 08:24 G	12403292.64	12403292.85	12403293.07	0.0090	0.0048 *
Moon	29247-12-19 15:21 G	12403659.94	12403660.14	12403660.37	0.0090	0.0050
Earth	29247-12-19 18:57 G	12403660.10	12403660.29	12403660.51	0.0090	0.0055 *
Earth	29248-12-21 08:09 G	12404027.67	12404027.84	12404028.02	0.0090	0.0066
Moon	29248-12-21 11:17 G	12404027.83	12404027.97	12404028.15	0.0090	0.0071 *
Moon	29249-12-23 17:45 G	12404395.10	12404395.24	12404395.40	0.0090	0.0073
Earth	29249-12-23 21:07 G	12404395.27	12404395.38	12404395.53	0.0090	0.0078 *
Earth	29250-12-26 10:05 G	12404762.91	12404762.92	12404762.98	0.0090	0.0089
Venus	29274-01-06 12:57 G	12413174.97	12413175.04	12413175.15	0.0089	0.0081
Venus	29274-08-20 01:55 G	12413400.45	12413400.58	12413400.76	0.0089	0.0063
Venus	29275-04-02 15:07 G	12413625.95	12413626.13	12413626.33	0.0089	0.0044
Venus	29275-11-14 04:19 G	12413851.48	12413851.68	12413851.90	0.0089	0.0026
Venus	29276-06-26 17:31 G	12414077.01	12414077.23	12414077.45	0.0089	0.0007
Venus	29277-02-07 06:14 G	12414302.55	12414302.76	12414302.99	0.0089	0.0012
Venus	29277-09-20 19:12 G	12414528.10	12414528.30	12414528.52	0.0089	0.0030
Venus	29278-05-04 08:24 G	12414753.66	12414753.85	12414754.03	0.0089	0.0048
Venus	29278-12-15 20:53 G	12414979.25	12414979.37	12414979.54	0.0089	0.0067
Venus	29279-07-29 10:05 G	12415204.87	12415204.92	12415204.99	0.0089	0.0085
Mercury	29289-05-21 12:00 G	12418789.00	12418789.00	12418789.02	0.0088	0.0088
Mercury	29289-08-17 13:12 G	12418877.02	12418877.05	12418877.12	0.0088	0.0082
Mercury	29289-11-13 14:53 G	12418965.06	12418965.12	12418965.20	0.0088	0.0074

Mercury	29290-02-09 16:33 G	12419053.10	12419053.19	12419053.28	0.0088	0.0067
Mercury	29290-05-08 18:00 G	12419141.15	12419141.25	12419141.35	0.0088	0.0060
Mercury	29290-08-04 19:26 G	12419229.20	12419229.31	12419229.43	0.0088	0.0053
Mercury	29290-10-31 20:53 G	12419317.26	12419317.37	12419317.50	0.0088	0.0046
Mercury	29291-01-27 22:19 G	12419405.31	12419405.43	12419405.57	0.0088	0.0039
Mercury	29291-04-26 00:00 G	12419493.37	12419493.50	12419493.63	0.0088	0.0031
Mercury	29291-07-23 01:26 G	12419581.43	12419581.56	12419581.70	0.0088	0.0024
Mercury	29291-10-19 03:07 G	12419669.49	12419669.63	12419669.76	0.0088	0.0017
Mercury	29292-01-15 04:33 G	12419757.55	12419757.69	12419757.83	0.0088	0.0009
Mercury	29292-04-12 06:00 G	12419845.61	12419845.75	12419845.89	0.0088	0.0003
Mercury	29292-07-09 07:41 G	12419933.68	12419933.82	12419933.96	0.0088	0.0005
Mercury	29292-10-05 09:07 G	12420021.74	12420021.88	12420022.02	0.0088	0.0013
Mercury	29293-01-01 10:33 G	12420109.81	12420109.94	12420110.08	0.0088	0.0020
Mercury	29293-03-30 12:14 G	12420197.88	12420198.01	12420198.14	0.0088	0.0027
Mercury	29293-06-26 13:41 G	12420285.94	12420286.07	12420286.20	0.0088	0.0035
Mercury	29293-09-22 15:07 G	12420374.01	12420374.13	12420374.26	0.0088	0.0042
Mercury	29293-12-19 16:48 G	12420462.09	12420462.20	12420462.32	0.0088	0.0049
Mercury	29294-03-17 18:29 G	12420550.16	12420550.27	12420550.38	0.0088	0.0057
Mercury	29294-06-13 19:41 G	12420638.24	12420638.32	12420638.43	0.0088	0.0065
Mercury	29294-09-09 21:36 G	12420726.32	12420726.40	12420726.48	0.0088	0.0072
Mercury	29294-12-06 22:48 G	12420814.40	12420814.45	12420814.52	0.0088	0.0079
Mercury	29295-03-05 00:29 G	12420902.51	12420902.52	12420902.55	0.0088	0.0087
Jupiter	29312-10-31 19:26 G	12427351.92	12427352.31	12427352.83	0.0088	0.0052
Earth	29317-05-23 15:07 G	12429017.13	12429017.13	12429017.16	0.0088	0.0088
Moon	29317-05-23 15:36 G	12429017.13	12429017.15	12429017.22	0.0088	0.0086 *
Moon	29318-05-25 23:31 G	12429384.40	12429384.48	12429384.62	0.0088	0.0080
Earth	29318-05-26 01:26 G	12429384.45	12429384.56	12429384.70	0.0088	0.0077 *
Mars	29319-03-11 21:07 G	12429674.11	12429674.38	12429674.67	0.0088	0.0049
Earth	29319-05-28 11:31 G	12429751.84	12429751.98	12429752.17	0.0088	0.0067
Moon	29319-05-28 14:53 G	12429751.96	12429752.12	12429752.30	0.0088	0.0064 *

Moon	29320-05-29 18:29 G	12430119.10	12430119.27	12430119.49	0.0088	0.0058
Earth	29320-05-29 22:05 G	12430119.24	12430119.42	12430119.64	0.0088	0.0056 *
Mars	29321-02-04 22:05 G	12430370.10	12430370.42	12430370.76	0.0088	0.0023
Earth	29321-06-01 08:24 G	12430486.65	12430486.85	12430487.09	0.0088	0.0045
Moon	29321-06-01 12:00 G	12430486.79	12430487.00	12430487.24	0.0088	0.0042 *
Moon	29322-06-03 15:21 G	12430853.93	12430854.14	12430854.39	0.0088	0.0037
Earth	29322-06-03 18:57 G	12430854.06	12430854.29	12430854.53	0.0088	0.0034 *
Earth	29323-06-06 05:31 G	12431221.48	12431221.73	12431221.97	0.0088	0.0023
Moon	29323-06-06 07:41 G	12431221.57	12431221.82	12431222.09	0.0088	0.0021 *
Moon	29324-06-07 13:55 G	12431588.84	12431589.08	12431589.34	0.0088	0.0016
Earth	29324-06-07 15:36 G	12431588.91	12431589.15	12431589.42	0.0088	0.0013 *
Earth	29325-06-10 02:09 G	12431956.34	12431956.59	12431956.85	0.0088	0.0002
Moon	29325-06-10 02:24 G	12431956.34	12431956.60	12431956.87	0.0088	0.0002 *
Earth	29326-06-12 12:43 G	12432323.78	12432324.03	12432324.29	0.0088	0.0010
Moon	29326-06-12 13:41 G	12432323.83	12432324.07	12432324.33	0.0088	0.0008 *
Moon	29327-06-14 20:53 G	12432691.13	12432691.37	12432691.64	0.0088	0.0024
Earth	29327-06-14 23:02 G	12432691.22	12432691.46	12432691.72	0.0088	0.0021 *
Earth	29328-06-16 09:07 G	12433058.66	12433058.88	12433059.14	0.0088	0.0032
Moon	29328-06-16 12:29 G	12433058.79	12433059.02	12433059.27	0.0088	0.0029 *
Moon	29329-06-18 16:19 G	12433425.96	12433426.18	12433426.41	0.0088	0.0045
Earth	29329-06-18 19:26 G	12433426.11	12433426.31	12433426.56	0.0088	0.0043 *
Earth	29330-06-21 05:31 G	12433793.55	12433793.73	12433793.96	0.0088	0.0054
Moon	29330-06-21 09:21 G	12433793.69	12433793.89	12433794.12	0.0088	0.0050 *
Moon	29331-06-23 12:43 G	12434160.90	12434161.03	12434161.22	0.0088	0.0068
Earth	29331-06-23 16:19 G	12434161.01	12434161.18	12434161.36	0.0088	0.0064 *
Earth	29332-06-25 02:24 G	12434528.48	12434528.60	12434528.75	0.0088	0.0075
Moon	29332-06-25 04:19 G	12434528.55	12434528.68	12434528.86	0.0088	0.0072 *
Earth	29333-06-27 12:14 G	12434895.98	12434896.01	12434896.10	0.0088	0.0086
Venus	29357-05-18 20:53 G	12443622.29	12443622.37	12443622.48	0.0088	0.0080
Venus	29357-12-30 09:50 G	12443847.77	12443847.91	12443848.08	0.0088	0.0062

Venus	29358-08-12 22:48 G	12444073.27	12444073.45	12444073.66	0.0088	0.0044
Venus	29359-03-26 11:45 G	12444298.79	12444298.99	12444299.21	0.0088	0.0026
Venus	29359-11-07 00:57 G	12444524.32	12444524.54	12444524.76	0.0088	0.0007
Venus	29360-06-19 14:09 G	12444749.87	12444750.09	12444750.31	0.0088	0.0011
Venus	29361-01-31 03:07 G	12444975.43	12444975.63	12444975.84	0.0088	0.0030
Venus	29361-09-13 15:36 G	12445200.99	12445201.15	12445201.36	0.0089	0.0049
Venus	29362-04-27 04:48 G	12445426.57	12445426.70	12445426.86	0.0089	0.0067
Venus	29362-12-08 18:00 G	12445652.20	12445652.25	12445652.33	0.0089	0.0085
Mercury	29373-08-03 18:14 G	12449543.24	12449543.26	12449543.33	0.0089	0.0086
Mercury	29373-10-30 21:36 G	12449631.32	12449631.40	12449631.50	0.0089	0.0076
Mercury	29374-01-27 00:43 G	12449719.42	12449719.53	12449719.66	0.0089	0.0066
Mercury	29374-04-25 04:05 G	12449807.53	12449807.67	12449807.81	0.0089	0.0056
Mercury	29374-07-22 06:43 G	12449895.64	12449895.78	12449895.95	0.0089	0.0047
Mercury	29374-10-18 10:05 G	12449983.76	12449983.92	12449984.09	0.0089	0.0037
Mercury	29375-01-14 13:12 G	12450071.88	12450072.05	12450072.23	0.0089	0.0027
Mercury	29375-04-12 16:19 G	12450160.00	12450160.18	12450160.36	0.0089	0.0017
Mercury	29375-07-09 19:26 G	12450248.13	12450248.31	12450248.49	0.0089	0.0008
Mercury	29375-10-05 22:33 G	12450336.26	12450336.44	12450336.62	0.0089	0.0003
Mercury	29376-01-02 01:26 G	12450424.38	12450424.56	12450424.74	0.0089	0.0011
Mercury	29376-03-30 04:19 G	12450512.51	12450512.68	12450512.86	0.0089	0.0021
Mercury	29376-06-26 07:12 G	12450600.64	12450600.80	12450600.98	0.0089	0.0031
Mercury	29376-09-22 10:19 G	12450688.78	12450688.93	12450689.10	0.0089	0.0040
Mercury	29376-12-19 13:26 G	12450776.91	12450777.06	12450777.21	0.0089	0.0049
Mercury	29377-03-17 16:05 G	12450865.05	12450865.17	12450865.32	0.0089	0.0059
Mercury	29377-06-13 19:12 G	12450953.20	12450953.30	12450953.42	0.0089	0.0068
Mercury	29377-09-09 21:50 G	12451041.35	12451041.41	12451041.52	0.0089	0.0078
Mercury	29377-12-07 00:57 G	12451129.52	12451129.54	12451129.59	0.0089	0.0087
Earth	29400-11-25 01:12 G	12459517.46	12459517.55	12459517.69	0.0090	0.0080
Moon	29400-11-25 04:48 G	12459517.59	12459517.70	12459517.84	0.0090	0.0077 *
Mars	29401-02-01 07:12 G	12459585.58	12459585.80	12459586.03	0.0090	0.0057

Moon	29401-11-27 11:02 G	12459884.82	12459884.96	12459885.14	0.0090	0.0070
Earth	29401-11-27 14:53 G	12459884.96	12459885.12	12459885.29	0.0090	0.0068 *
Earth	29402-11-30 03:36 G	12460252.47	12460252.65	12460252.87	0.0090	0.0057
Moon	29402-11-30 07:12 G	12460252.61	12460252.80	12460253.03	0.0090	0.0055 *
Mars	29402-12-27 02:24 G	12460279.32	12460279.60	12460279.90	0.0090	0.0009
Moon	29403-12-02 14:24 G	12460619.89	12460620.10	12460620.32	0.0090	0.0047
Earth	29403-12-02 16:48 G	12460619.99	12460620.20	12460620.44	0.0090	0.0045 *
Mars	29404-11-19 20:24 G	12460973.21	12460973.35	12460973.54	0.0090	0.0073
Earth	29404-12-04 06:14 G	12460987.52	12460987.76	12460988.00	0.0090	0.0033
Moon	29404-12-04 08:09 G	12460987.61	12460987.84	12460988.10	0.0090	0.0033 *
Moon	29405-12-06 18:14 G	12461355.02	12461355.26	12461355.51	0.0090	0.0023
Earth	29405-12-06 18:57 G	12461355.05	12461355.29	12461355.55	0.0090	0.0022 *
Moon	29406-12-09 07:41 G	12461722.55	12461722.82	12461723.08	0.0090	0.0008
Earth	29406-12-09 07:55 G	12461722.58	12461722.83	12461723.10	0.0090	0.0010 *
Earth	29407-12-11 21:07 G	12462090.12	12462090.38	12462090.64	0.0090	0.0002
Moon	29407-12-11 22:05 G	12462090.18	12462090.42	12462090.68	0.0090	0.0003 *
Moon	29408-12-13 07:12 G	12462457.55	12462457.80	12462458.07	0.0090	0.0016
Earth	29408-12-13 09:50 G	12462457.67	12462457.91	12462458.18	0.0090	0.0015 *
Earth	29409-12-15 23:02 G	12462825.21	12462825.46	12462825.71	0.0090	0.0026
Moon	29409-12-16 02:09 G	12462825.35	12462825.59	12462825.84	0.0090	0.0025 *
Moon	29410-12-18 08:24 G	12463192.62	12463192.85	12463193.09	0.0090	0.0038
Earth	29410-12-18 11:45 G	12463192.77	12463192.99	12463193.24	0.0090	0.0038 *
Earth	29411-12-21 00:29 G	12463560.32	12463560.52	12463560.75	0.0090	0.0050
Moon	29411-12-21 04:05 G	12463560.48	12463560.67	12463560.91	0.0090	0.0050 *
Moon	29412-12-22 10:48 G	12463927.78	12463927.95	12463928.15	0.0090	0.0062
Earth	29412-12-22 13:55 G	12463927.90	12463928.08	12463928.27	0.0090	0.0061 *
Earth	29413-12-25 02:38 G	12464295.48	12464295.61	12464295.78	0.0090	0.0073
Moon	29413-12-25 05:02 G	12464295.59	12464295.71	12464295.89	0.0090	0.0074 *
Moon	29414-12-27 14:53 G	12464663.04	12464663.12	12464663.21	0.0090	0.0084
Earth	29414-12-27 15:50 G	12464663.08	12464663.16	12464663.26	0.0090	0.0084 *



Venus	29438-11-23 11:17 G	12473394.86	12473394.97	12473395.13	0.0089	0.0071
Venus	29439-07-07 00:43 G	12473620.36	12473620.53	12473620.71	0.0089	0.0052
Venus	29440-02-17 13:41 G	12473845.88	12473846.07	12473846.28	0.0089	0.0034
Venus	29440-09-30 02:53 G	12474071.40	12474071.62	12474071.84	0.0089	0.0015
Venus	29441-05-13 15:50 G	12474296.94	12474297.16	12474297.38	0.0089	0.0003
Venus	29441-12-25 04:48 G	12474522.50	12474522.70	12474522.92	0.0089	0.0022
Venus	29442-08-07 17:45 G	12474748.05	12474748.24	12474748.45	0.0089	0.0040
Venus	29443-03-21 06:57 G	12474973.62	12474973.79	12474973.95	0.0089	0.0058
Venus	29443-11-01 19:26 G	12475199.22	12475199.31	12475199.44	0.0089	0.0077
Mercury	29454-02-17 11:17 G	12478959.95	12478959.97	12478960.00	0.0088	0.0086
Mercury	29454-05-16 12:43 G	12479047.98	12479048.03	12479048.10	0.0088	0.0079
Mercury	29454-08-12 14:09 G	12479136.02	12479136.09	12479136.18	0.0088	0.0072
Mercury	29454-11-08 15:36 G	12479224.07	12479224.15	12479224.25	0.0088	0.0065
Mercury	29455-02-04 17:17 G	12479312.12	12479312.22	12479312.33	0.0088	0.0058
Mercury	29455-05-03 18:43 G	12479400.17	12479400.28	12479400.40	0.0088	0.0051
Mercury	29455-07-30 20:09 G	12479488.23	12479488.34	12479488.47	0.0088	0.0044
Mercury	29455-10-26 21:36 G	12479576.28	12479576.40	12479576.54	0.0088	0.0037
Mercury	29456-01-22 23:02 G	12479664.34	12479664.46	12479664.60	0.0088	0.0030
Mercury	29456-04-20 00:43 G	12479752.40	12479752.53	12479752.67	0.0088	0.0022
Mercury	29456-07-17 02:24 G	12479840.46	12479840.60	12479840.73	0.0088	0.0015
Mercury	29456-10-13 03:50 G	12479928.52	12479928.66	12479928.80	0.0088	0.0007
Mercury	29457-01-09 05:17 G	12480016.58	12480016.72	12480016.86	0.0088	0.0002
Mercury	29457-04-07 06:57 G	12480104.65	12480104.79	12480104.93	0.0088	0.0008
Mercury	29457-07-04 08:24 G	12480192.71	12480192.85	12480192.99	0.0088	0.0015
Mercury	29457-09-30 09:50 G	12480280.78	12480280.91	12480281.05	0.0088	0.0022
Mercury	29457-12-27 11:17 G	12480368.85	12480368.97	12480369.11	0.0088	0.0030
Mercury	29458-03-25 12:57 G	12480456.91	12480457.04	12480457.17	0.0088	0.0037
Mercury	29458-06-21 14:24 G	12480544.98	12480545.10	12480545.23	0.0088	0.0044
Mercury	29458-09-17 16:05 G	12480633.06	12480633.17	12480633.29	0.0088	0.0051
Mercury	29458-12-14 17:17 G	12480721.13	12480721.22	12480721.34	0.0088	0.0060

Mercury	29459-03-12 18:57 G	12480809.21	12480809.29	12480809.39	0.0088	0.0067
Mercury	29459-06-08 20:53 G	12480897.29	12480897.37	12480897.44	0.0088	0.0074
Mercury	29459-09-04 22:05 G	12480985.38	12480985.42	12480985.49	0.0088	0.0081
Jupiter	29479-01-04 10:19 G	12488046.51	12488046.93	12488047.46	0.0088	0.0048
Earth	29482-05-26 10:33 G	12489284.89	12489284.94	12489285.04	0.0088	0.0084
Moon	29482-05-26 13:55 G	12489285.08	12489285.08	12489285.09	0.0088	0.0088
Mars	29482-10-24 10:05 G	12489435.75	12489435.92	12489436.14	0.0088	0.0072
Moon	29483-05-28 17:17 G	12489652.08	12489652.22	12489652.40	0.0088	0.0069
Earth	29483-05-28 21:07 G	12489652.26	12489652.38	12489652.54	0.0088	0.0073 *
Earth	29484-05-30 07:26 G	12490019.65	12490019.81	12490020.01	0.0088	0.0062
Moon	29484-05-30 11:17 G	12490019.80	12490019.97	12490020.14	0.0088	0.0066 *
Mars	29484-09-19 10:48 G	12490131.61	12490131.95	12490132.29	0.0088	0.0000
Moon	29485-06-01 14:38 G	12490386.92	12490387.11	12490387.34	0.0088	0.0048
Earth	29485-06-01 18:00 G	12490387.05	12490387.25	12490387.46	0.0088	0.0051 *
Earth	29486-06-04 04:19 G	12490754.45	12490754.68	12490754.91	0.0088	0.0040
Moon	29486-06-04 06:29 G	12490754.55	12490754.77	12490755.01	0.0088	0.0044 *
Mars	29486-08-16 11:45 G	12490827.83	12490827.99	12490828.21	0.0088	0.0073
Moon	29487-06-06 14:09 G	12491121.85	12491122.09	12491122.33	0.0088	0.0025
Earth	29487-06-06 14:38 G	12491121.87	12491122.11	12491122.36	0.0088	0.0029 *
Moon	29488-06-08 00:29 G	12491489.28	12491489.52	12491489.80	0.0088	0.0022
Earth	29488-06-08 00:57 G	12491489.29	12491489.54	12491489.80	0.0088	0.0018 *
Earth	29489-06-10 11:17 G	12491856.72	12491856.97	12491857.23	0.0088	0.0007
Moon	29489-06-10 12:57 G	12491856.79	12491857.04	12491857.29	0.0088	0.0003 *
Moon	29490-06-12 18:57 G	12492224.02	12492224.29	12492224.55	0.0088	0.0001
Earth	29490-06-12 21:50 G	12492224.15	12492224.41	12492224.67	0.0088	0.0004 *
Earth	29491-06-15 07:55 G	12492591.59	12492591.83	12492592.10	0.0088	0.0016
Moon	29491-06-15 11:17 G	12492591.72	12492591.97	12492592.22	0.0088	0.0019 *
Moon	29492-06-16 14:38 G	12492958.88	12492959.11	12492959.37	0.0088	0.0023
Earth	29492-06-16 18:29 G	12492959.04	12492959.27	12492959.53	0.0088	0.0027 *
Earth	29493-06-19 04:33 G	12493326.48	12493326.69	12493326.94	0.0088	0.0038

Moon	29493-06-19 07:55 G	12493326.61	12493326.83	12493327.07	0.0088	0.0042 *
Moon	29494-06-21 12:14 G	12493693.82	12493694.01	12493694.25	0.0088	0.0046
Earth	29494-06-21 15:07 G	12493693.93	12493694.13	12493694.36	0.0088	0.0049 *
Earth	29495-06-24 01:26 G	12494061.39	12494061.56	12494061.77	0.0088	0.0060
Moon	29495-06-24 03:36 G	12494061.47	12494061.65	12494061.84	0.0088	0.0063 *
Moon	29496-06-25 11:45 G	12494428.84	12494428.99	12494429.16	0.0088	0.0067
Earth	29496-06-25 11:31 G	12494428.86	12494428.98	12494429.16	0.0088	0.0071 *
Moon	29497-06-27 21:07 G	12494796.34	12494796.38	12494796.49	0.0088	0.0085
Earth	29497-06-27 22:19 G	12494796.34	12494796.43	12494796.53	0.0088	0.0081 *
Venus	29521-08-22 07:12 G	12503616.77	12503616.80	12503616.85	0.0088	0.0087
Venus	29522-04-04 20:09 G	12503842.21	12503842.34	12503842.49	0.0088	0.0069
Venus	29522-11-16 09:07 G	12504067.71	12504067.88	12504068.07	0.0088	0.0051
Venus	29523-06-29 22:05 G	12504293.23	12504293.42	12504293.64	0.0088	0.0033
Venus	29524-02-10 11:17 G	12504518.76	12504518.97	12504519.19	0.0088	0.0014
Venus	29524-09-23 00:14 G	12504744.29	12504744.51	12504744.73	0.0088	0.0004
Venus	29525-05-06 12:57 G	12504969.84	12504970.04	12504970.27	0.0089	0.0023
Venus	29525-12-18 01:55 G	12505195.40	12505195.58	12505195.79	0.0089	0.0041
Venus	29526-07-31 15:07 G	12505420.98	12505421.13	12505421.30	0.0089	0.0059
Venus	29527-03-14 04:05 G	12505646.57	12505646.67	12505646.79	0.0089	0.0077
Mercury	29538-05-02 17:02 G	12509714.15	12509714.21	12509714.29	0.0089	0.0082
Mercury	29538-07-29 20:24 G	12509802.25	12509802.35	12509802.45	0.0089	0.0072
Mercury	29538-10-25 23:02 G	12509890.35	12509890.46	12509890.61	0.0089	0.0063
Mercury	29539-01-22 02:24 G	12509978.46	12509978.60	12509978.76	0.0089	0.0053
Mercury	29539-04-20 05:31 G	12510066.58	12510066.73	12510066.90	0.0089	0.0043
Mercury	29539-07-17 08:53 G	12510154.70	12510154.87	12510155.04	0.0089	0.0033
Mercury	29539-10-13 11:45 G	12510242.82	12510242.99	12510243.17	0.0089	0.0024
Mercury	29540-01-09 14:53 G	12510330.94	12510331.12	12510331.30	0.0089	0.0014
Mercury	29540-04-06 18:00 G	12510419.07	12510419.25	12510419.43	0.0089	0.0004
Mercury	29540-07-03 21:07 G	12510507.20	12510507.38	12510507.56	0.0089	0.0006
Mercury	29540-09-30 00:00 G	12510595.33	12510595.50	12510595.68	0.0089	0.0015

Mercury	29540-12-27 02:53 G	12510683.46	12510683.62	12510683.80	0.0089	0.0025
Mercury	29541-03-25 06:00 G	12510771.59	12510771.75	12510771.92	0.0089	0.0034
Mercury	29541-06-21 08:53 G	12510859.72	12510859.87	12510860.04	0.0089	0.0044
Mercury	29541-09-17 12:00 G	12510947.86	12510948.00	12510948.15	0.0089	0.0053
Mercury	29541-12-14 15:07 G	12511036.00	12511036.13	12511036.25	0.0089	0.0063
Mercury	29542-03-12 17:45 G	12511124.15	12511124.24	12511124.36	0.0089	0.0072
Mercury	29542-06-08 20:53 G	12511212.31	12511212.37	12511212.44	0.0089	0.0081
Mars	29564-09-17 14:53 G	12519349.01	12519349.12	12519349.29	0.0090	0.0079
Earth	29564-11-25 07:55 G	12519417.79	12519417.83	12519417.92	0.0090	0.0087
Earth	29565-11-27 20:38 G	12519785.26	12519785.36	12519785.53	0.0090	0.0076
Moon	29565-11-28 00:00 G	12519785.37	12519785.50	12519785.68	0.0090	0.0072 *
Mars	29566-08-12 10:48 G	12520042.67	12520042.95	12520043.25	0.0090	0.0013
Moon	29566-11-30 07:26 G	12520152.67	12520152.81	12520152.99	0.0090	0.0068
Earth	29566-11-30 09:50 G	12520152.75	12520152.91	12520153.12	0.0090	0.0064 *
Earth	29567-12-02 23:17 G	12520520.27	12520520.47	12520520.69	0.0090	0.0052
Moon	29567-12-03 00:29 G	12520520.30	12520520.52	12520520.75	0.0090	0.0048 *
Mars	29568-07-06 05:02 G	12520736.49	12520736.71	12520736.96	0.0090	0.0052
Earth	29568-12-04 12:29 G	12520887.80	12520888.02	12520888.26	0.0090	0.0040
Moon	29568-12-04 12:14 G	12520887.81	12520888.01	12520888.24	0.0090	0.0044 *
Moon	29569-12-07 00:43 G	12521255.28	12521255.53	12521255.79	0.0090	0.0024
Earth	29569-12-07 01:41 G	12521255.33	12521255.57	12521255.82	0.0090	0.0028 *
Earth	29570-12-09 14:53 G	12521622.87	12521623.12	12521623.38	0.0090	0.0016
Moon	29570-12-09 17:17 G	12521622.98	12521623.22	12521623.47	0.0090	0.0020 *
Moon	29571-12-12 01:12 G	12521990.28	12521990.55	12521990.81	0.0090	0.0001
Earth	29571-12-12 04:05 G	12521990.41	12521990.67	12521990.93	0.0090	0.0004 *
Earth	29572-12-13 16:48 G	12522357.95	12522358.20	12522358.47	0.0090	0.0009
Moon	29572-12-13 20:38 G	12522358.10	12522358.36	12522358.61	0.0090	0.0004 *
Moon	29573-12-16 02:09 G	12522725.36	12522725.59	12522725.86	0.0090	0.0025
Earth	29573-12-16 05:45 G	12522725.50	12522725.74	12522726.01	0.0090	0.0021 *
Earth	29574-12-18 18:29 G	12523093.05	12523093.27	12523093.53	0.0090	0.0033

Moon	29574-12-18 22:05 G	12523093.18	12523093.42	12523093.67	0.0090	0.0028 *
Moon	29575-12-21 05:02 G	12523460.51	12523460.71	12523460.93	0.0090	0.0049
Earth	29575-12-21 07:55 G	12523460.61	12523460.83	12523461.06	0.0090	0.0044 *
Earth	29576-12-22 20:53 G	12523828.17	12523828.37	12523828.57	0.0090	0.0056
Moon	29576-12-22 21:50 G	12523828.21	12523828.41	12523828.65	0.0090	0.0052 *
Moon	29577-12-25 09:07 G	12524195.74	12524195.88	12524196.03	0.0090	0.0072
Earth	29577-12-25 09:21 G	12524195.74	12524195.89	12524196.08	0.0090	0.0068 *
Moon	29578-12-27 21:36 G	12524563.28	12524563.40	12524563.57	0.0090	0.0075
Earth	29578-12-27 22:19 G	12524563.34	12524563.43	12524563.57	0.0090	0.0080 *
Venus	29603-02-25 20:53 G	12533389.30	12533389.37	12533389.50	0.0089	0.0079
Venus	29603-10-09 10:19 G	12533614.78	12533614.93	12533615.10	0.0089	0.0060
Venus	29604-05-21 23:17 G	12533840.29	12533840.47	12533840.67	0.0089	0.0042
Venus	29605-01-02 12:43 G	12534065.81	12534066.03	12534066.24	0.0089	0.0023
Venus	29605-08-16 01:41 G	12534291.35	12534291.57	12534291.79	0.0089	0.0005
Venus	29606-03-29 14:24 G	12534516.89	12534517.10	12534517.33	0.0089	0.0014
Venus	29606-11-10 03:36 G	12534742.45	12534742.65	12534742.86	0.0089	0.0032
Venus	29607-06-23 16:33 G	12534968.02	12534968.19	12534968.38	0.0089	0.0050
Venus	29608-02-04 05:17 G	12535193.60	12535193.72	12535193.88	0.0089	0.0069
Venus	29608-09-16 18:14 G	12535419.24	12535419.26	12535419.32	0.0089	0.0087
Mercury	29618-11-15 10:48 G	12539130.91	12539130.95	12539131.00	0.0088	0.0084
Mercury	29619-02-11 12:14 G	12539218.95	12539219.01	12539219.08	0.0088	0.0077
Mercury	29619-05-10 13:41 G	12539306.99	12539307.07	12539307.16	0.0088	0.0070
Mercury	29619-08-06 15:07 G	12539395.04	12539395.13	12539395.24	0.0088	0.0063
Mercury	29619-11-02 16:33 G	12539483.09	12539483.19	12539483.31	0.0088	0.0056
Mercury	29620-01-29 18:00 G	12539571.15	12539571.25	12539571.38	0.0088	0.0049
Mercury	29620-04-26 19:26 G	12539659.20	12539659.31	12539659.45	0.0088	0.0042
Mercury	29620-07-23 21:21 G	12539747.26	12539747.39	12539747.52	0.0088	0.0034
Mercury	29620-10-19 22:48 G	12539835.32	12539835.45	12539835.58	0.0088	0.0026
Mercury	29621-01-16 00:14 G	12539923.38	12539923.51	12539923.65	0.0088	0.0019
Mercury	29621-04-14 01:41 G	12540011.44	12540011.57	12540011.71	0.0088	0.0012

Mercury	29621-07-11 03:21 G	12540099.50	12540099.64	12540099.78	0.0088	0.0005
Mercury	29621-10-07 04:48 G	12540187.56	12540187.70	12540187.84	0.0088	0.0003
Mercury	29622-01-03 06:14 G	12540275.63	12540275.76	12540275.90	0.0088	0.0010
Mercury	29622-04-01 07:55 G	12540363.69	12540363.83	12540363.97	0.0088	0.0017
Mercury	29622-06-28 09:21 G	12540451.76	12540451.89	12540452.03	0.0088	0.0025
Mercury	29622-09-24 10:48 G	12540539.82	12540539.95	12540540.09	0.0088	0.0032
Mercury	29622-12-21 12:29 G	12540627.89	12540628.02	12540628.14	0.0088	0.0039
Mercury	29623-03-19 13:41 G	12540715.96	12540716.07	12540716.20	0.0088	0.0048
Mercury	29623-06-15 15:21 G	12540804.04	12540804.14	12540804.26	0.0088	0.0054
Mercury	29623-09-11 17:02 G	12540892.11	12540892.21	12540892.31	0.0088	0.0062
Mercury	29623-12-08 18:29 G	12540980.19	12540980.27	12540980.36	0.0088	0.0069
Mercury	29624-03-05 20:09 G	12541068.27	12541068.34	12541068.41	0.0088	0.0077
Mercury	29624-06-01 21:21 G	12541156.37	12541156.39	12541156.45	0.0088	0.0085
Earth	29647-05-29 06:43 G	12549552.70	12549552.78	12549552.91	0.0088	0.0080
Moon	29647-05-29 10:33 G	12549552.86	12549552.94	12549553.05	0.0088	0.0081 *
Mars	29648-05-04 01:26 G	12549893.24	12549893.56	12549893.90	0.0088	0.0022
Moon	29648-05-30 15:21 G	12549919.99	12549920.14	12549920.30	0.0088	0.0068
Earth	29648-05-30 17:17 G	12549920.08	12549920.22	12549920.40	0.0088	0.0069 *
Earth	29649-06-02 03:36 G	12550287.48	12550287.65	12550287.87	0.0088	0.0058
Moon	29649-06-02 05:17 G	12550287.54	12550287.72	12550287.94	0.0088	0.0059 *
Mars	29650-03-31 01:41 G	12550589.32	12550589.57	12550589.88	0.0088	0.0051
Moon	29650-06-04 13:55 G	12550654.88	12550655.08	12550655.30	0.0088	0.0045
Earth	29650-06-04 14:09 G	12550654.89	12550655.09	12550655.33	0.0088	0.0047 *
Moon	29651-06-06 23:17 G	12551022.24	12551022.47	12551022.72	0.0088	0.0036
Earth	29651-06-07 00:57 G	12551022.31	12551022.54	12551022.78	0.0088	0.0035 *
Earth	29652-06-08 11:02 G	12551389.72	12551389.96	12551390.22	0.0088	0.0024
Moon	29652-06-08 13:12 G	12551389.82	12551390.05	12551390.30	0.0088	0.0023 *
Moon	29653-06-10 18:29 G	12551757.02	12551757.27	12551757.53	0.0088	0.0014
Earth	29653-06-10 21:21 G	12551757.15	12551757.39	12551757.66	0.0088	0.0013 *
Earth	29654-06-13 07:55 G	12552124.57	12552124.83	12552125.09	0.0088	0.0001

Moon	29654-06-13 11:31 G	12552124.73	12552124.98	12552125.24	0.0088	0.0001	*
Moon	29655-06-15 14:53 G	12552491.87	12552492.12	12552492.38	0.0088	0.0009	
Earth	29655-06-15 18:29 G	12552492.01	12552492.27	12552492.53	0.0088	0.0010	*
Earth	29656-06-17 04:19 G	12552859.45	12552859.68	12552859.95	0.0088	0.0022	
Moon	29656-06-17 07:41 G	12552859.58	12552859.82	12552860.09	0.0088	0.0024	*
Moon	29657-06-19 12:57 G	12553226.82	12553227.04	12553227.29	0.0088	0.0032	
Earth	29657-06-19 14:53 G	12553226.90	12553227.12	12553227.37	0.0088	0.0033	*
Earth	29658-06-22 01:26 G	12553594.35	12553594.56	12553594.79	0.0088	0.0044	
Moon	29658-06-22 02:24 G	12553594.39	12553594.60	12553594.85	0.0088	0.0046	*
Earth	29659-06-24 12:00 G	12553961.81	12553962.00	12553962.21	0.0088	0.0055	
Moon	29659-06-24 11:31 G	12553961.81	12553961.98	12553962.20	0.0088	0.0054	*
Moon	29660-06-25 20:38 G	12554329.20	12554329.36	12554329.53	0.0088	0.0067	
Earth	29660-06-25 22:19 G	12554329.27	12554329.43	12554329.61	0.0088	0.0066	*
Earth	29661-06-28 08:53 G	12554696.75	12554696.87	12554696.99	0.0088	0.0077	
Moon	29661-06-28 10:48 G	12554696.84	12554696.95	12554697.09	0.0088	0.0076	*
Venus	29686-07-07 06:57 G	12563836.69	12563836.79	12563836.92	0.0088	0.0076	
Venus	29687-02-17 19:55 G	12564062.18	12564062.33	12564062.51	0.0088	0.0058	
Venus	29687-10-01 08:53 G	12564287.69	12564287.87	12564288.08	0.0088	0.0040	
Venus	29688-05-13 22:05 G	12564513.21	12564513.42	12564513.64	0.0088	0.0021	
Venus	29688-12-25 11:17 G	12564738.75	12564738.97	12564739.19	0.0088	0.0003	
Venus	29689-08-08 00:00 G	12564964.29	12564964.50	12564964.73	0.0088	0.0016	
Venus	29690-03-21 12:57 G	12565189.84	12565190.04	12565190.25	0.0089	0.0034	
Venus	29690-11-02 01:55 G	12565415.41	12565415.58	12565415.77	0.0089	0.0052	
Venus	29691-06-15 14:53 G	12565641.00	12565641.12	12565641.27	0.0089	0.0070	
Venus	29692-01-27 04:05 G	12565866.66	12565866.67	12565866.70	0.0089	0.0088	
Mercury	29702-11-01 12:29 G	12569797.01	12569797.02	12569797.06	0.0089	0.0088	
Mercury	29703-01-28 15:50 G	12569885.08	12569885.16	12569885.25	0.0089	0.0078	
Mercury	29703-04-26 18:57 G	12569973.18	12569973.29	12569973.41	0.0089	0.0068	
Mercury	29703-07-23 21:50 G	12570061.29	12570061.41	12570061.57	0.0089	0.0059	
Mercury	29703-10-20 00:57 G	12570149.41	12570149.54	12570149.71	0.0089	0.0049	

Mercury	29704-01-16 04:19 G	12570237.52	12570237.68	12570237.85	0.0089	0.0039
Mercury	29704-04-13 07:26 G	12570325.64	12570325.81	12570325.99	0.0089	0.0029
Mercury	29704-07-10 10:33 G	12570413.77	12570413.94	12570414.12	0.0089	0.0020
Mercury	29704-10-06 13:41 G	12570501.89	12570502.07	12570502.25	0.0089	0.0010
Mercury	29705-01-02 16:48 G	12570590.02	12570590.20	12570590.38	0.0089	0.0000
Mercury	29705-03-31 19:41 G	12570678.15	12570678.32	12570678.51	0.0089	0.0010
Mercury	29705-06-27 22:48 G	12570766.28	12570766.45	12570766.63	0.0089	0.0019
Mercury	29705-09-24 01:41 G	12570854.41	12570854.57	12570854.75	0.0089	0.0029
Mercury	29705-12-21 04:48 G	12570942.54	12570942.70	12570942.87	0.0089	0.0038
Mercury	29706-03-19 07:41 G	12571030.68	12571030.82	12571030.98	0.0089	0.0048
Mercury	29706-06-15 10:48 G	12571118.82	12571118.95	12571119.09	0.0089	0.0057
Mercury	29706-09-11 13:26 G	12571206.96	12571207.06	12571207.20	0.0089	0.0067
Mercury	29706-12-08 16:33 G	12571295.11	12571295.19	12571295.29	0.0089	0.0076
Mercury	29707-03-06 19:41 G	12571383.28	12571383.32	12571383.37	0.0089	0.0085
Moon	29729-11-28 04:05 G	12579685.56	12579685.67	12579685.79	0.0090	0.0079
Earth	29729-11-28 05:45 G	12579685.64	12579685.74	12579685.84	0.0090	0.0082 *
Mars	29730-03-28 20:38 G	12579806.10	12579806.36	12579806.64	0.0090	0.0034
Earth	29730-11-30 18:00 G	12580053.11	12580053.25	12580053.43	0.0090	0.0071
Moon	29730-11-30 19:26 G	12580053.16	12580053.31	12580053.46	0.0090	0.0073 *
Earth	29731-12-03 06:57 G	12580420.62	12580420.79	12580421.01	0.0090	0.0059
Moon	29731-12-03 08:24 G	12580420.66	12580420.85	12580421.05	0.0090	0.0055 *
Mars	29732-02-20 15:36 G	12580499.90	12580500.15	12580500.45	0.0090	0.0032
Moon	29732-12-04 18:14 G	12580788.05	12580788.26	12580788.49	0.0090	0.0050
Earth	29732-12-04 20:09 G	12580788.14	12580788.34	12580788.58	0.0090	0.0047 *
Earth	29733-12-07 09:07 G	12581155.66	12581155.88	12581156.14	0.0090	0.0035
Moon	29733-12-07 11:45 G	12581155.77	12581155.99	12581156.24	0.0090	0.0032 *
Moon	29734-12-09 18:43 G	12581523.04	12581523.28	12581523.54	0.0090	0.0026
Earth	29734-12-09 22:19 G	12581523.19	12581523.43	12581523.69	0.0090	0.0023 *
Earth	29735-12-12 11:45 G	12581890.73	12581890.99	12581891.24	0.0090	0.0010
Moon	29735-12-12 15:07 G	12581890.87	12581891.13	12581891.39	0.0090	0.0007 *



Moon	29736-12-13 21:21 G	12582258.13	12582258.39	12582258.64	0.0090	0.0001
Earth	29736-12-14 00:43 G	12582258.28	12582258.53	12582258.79	0.0090	0.0003 *
Earth	29737-12-16 13:26 G	12582625.81	12582626.06	12582626.32	0.0090	0.0015
Moon	29737-12-16 16:05 G	12582625.93	12582626.17	12582626.44	0.0090	0.0018 *
Moon	29738-12-19 00:43 G	12582993.30	12582993.53	12582993.78	0.0090	0.0025
Earth	29738-12-19 02:24 G	12582993.37	12582993.60	12582993.86	0.0090	0.0027 *
Earth	29739-12-21 15:21 G	12583360.92	12583361.14	12583361.39	0.0090	0.0039
Moon	29739-12-21 16:19 G	12583360.96	12583361.18	12583361.44	0.0090	0.0041 *
Earth	29740-12-23 04:19 G	12583728.48	12583728.68	12583728.90	0.0090	0.0051
Moon	29740-12-23 04:48 G	12583728.51	12583728.70	12583728.93	0.0090	0.0049 *
Moon	29741-12-25 15:21 G	12584095.98	12584096.14	12584096.35	0.0090	0.0065
Earth	29741-12-25 17:17 G	12584096.05	12584096.22	12584096.41	0.0090	0.0063 *
Earth	29742-12-28 06:00 G	12584463.63	12584463.75	12584463.91	0.0090	0.0075
Moon	29742-12-28 08:09 G	12584463.72	12584463.84	12584464.01	0.0090	0.0074 *
Moon	29743-12-30 15:21 G	12584831.13	12584831.14	12584831.20	0.0090	0.0089
Earth	29743-12-30 18:43 G	12584831.25	12584831.28	12584831.38	0.0090	0.0087
Venus	29767-05-31 07:26 G	12593383.78	12593383.81	12593383.90	0.0089	0.0086
Venus	29768-01-11 20:53 G	12593609.24	12593609.37	12593609.53	0.0089	0.0067
Venus	29768-08-24 09:50 G	12593834.74	12593834.91	12593835.10	0.0089	0.0049
Venus	29769-04-06 22:48 G	12594060.26	12594060.45	12594060.67	0.0089	0.0031
Venus	29769-11-18 12:00 G	12594285.79	12594286.00	12594286.22	0.0089	0.0012
Venus	29770-07-02 01:12 G	12594511.33	12594511.55	12594511.77	0.0089	0.0006
Venus	29771-02-12 13:41 G	12594736.87	12594737.07	12594737.30	0.0089	0.0025
Venus	29771-09-26 02:38 G	12594962.43	12594962.61	12594962.82	0.0089	0.0043
Venus	29772-05-08 15:36 G	12595188.01	12595188.15	12595188.32	0.0089	0.0061
Venus	29772-12-20 05:02 G	12595413.62	12595413.71	12595413.81	0.0089	0.0079
Mercury	29783-05-17 08:53 G	12599213.87	12599213.87	12599213.88	0.0088	0.0088
Mercury	29783-08-13 10:05 G	12599301.88	12599301.92	12599301.99	0.0088	0.0082
Mercury	29783-11-09 12:00 G	12599389.92	12599390.00	12599390.07	0.0088	0.0074
Mercury	29784-02-05 13:26 G	12599477.97	12599478.06	12599478.15	0.0088	0.0067

Mercury	29784-05-03 14:53 G	12599566.02	12599566.12	12599566.22	0.0088	0.0060
Mercury	29784-07-30 16:05 G	12599654.07	12599654.17	12599654.29	0.0088	0.0053
Mercury	29784-10-26 17:45 G	12599742.12	12599742.24	12599742.36	0.0088	0.0045
Mercury	29785-01-22 19:12 G	12599830.18	12599830.30	12599830.43	0.0088	0.0038
Mercury	29785-04-20 20:53 G	12599918.24	12599918.37	12599918.50	0.0088	0.0031
Mercury	29785-07-17 22:19 G	12600006.30	12600006.43	12600006.56	0.0088	0.0024
Mercury	29785-10-13 23:45 G	12600094.36	12600094.49	12600094.63	0.0088	0.0016
Mercury	29786-01-10 01:12 G	12600182.42	12600182.55	12600182.69	0.0088	0.0010
Mercury	29786-04-08 02:53 G	12600270.48	12600270.62	12600270.76	0.0088	0.0002
Mercury	29786-07-05 04:19 G	12600358.54	12600358.68	12600358.82	0.0088	0.0006
Mercury	29786-10-01 05:45 G	12600446.61	12600446.74	12600446.88	0.0088	0.0013
Mercury	29786-12-28 07:12 G	12600534.67	12600534.80	12600534.94	0.0088	0.0021
Mercury	29787-03-26 08:53 G	12600622.74	12600622.87	12600623.00	0.0088	0.0028
Mercury	29787-06-22 10:19 G	12600710.81	12600710.93	12600711.06	0.0088	0.0035
Mercury	29787-09-18 11:45 G	12600798.88	12600798.99	12600799.12	0.0088	0.0043
Mercury	29787-12-15 13:12 G	12600886.95	12600887.05	12600887.18	0.0088	0.0050
Mercury	29788-03-12 14:53 G	12600975.02	12600975.12	12600975.23	0.0088	0.0057
Mercury	29788-06-08 16:33 G	12601063.10	12601063.19	12601063.29	0.0088	0.0065
Mercury	29788-09-04 18:00 G	12601151.18	12601151.25	12601151.34	0.0088	0.0072
Mercury	29788-12-01 19:41 G	12601239.26	12601239.32	12601239.38	0.0088	0.0080
Mercury	29789-02-27 20:53 G	12601327.37	12601327.37	12601327.41	0.0088	0.0088
Earth	29811-05-30 17:17 G	12609453.18	12609453.22	12609453.27	0.0088	0.0086
Mars	29811-12-18 18:43 G	12609655.01	12609655.28	12609655.60	0.0088	0.0044
Earth	29812-06-01 03:50 G	12609820.53	12609820.66	12609820.80	0.0088	0.0075
Moon	29812-06-01 04:05 G	12609820.54	12609820.67	12609820.85	0.0088	0.0071 *
Earth	29813-06-03 14:09 G	12610187.93	12610188.09	12610188.28	0.0088	0.0064
Moon	29813-06-03 14:53 G	12610187.97	12610188.12	12610188.28	0.0088	0.0068 *
Mars	29813-11-13 17:31 G	12610350.91	12610351.23	12610351.56	0.0088	0.0028
Moon	29814-06-05 23:31 G	12610555.26	12610555.48	12610555.70	0.0088	0.0048
Earth	29814-06-06 00:29 G	12610555.34	12610555.52	12610555.75	0.0088	0.0053 *

Earth	29815-06-08 11:17 G	12610922.75	12610922.97	12610923.20	0.0088	0.0041
Moon	29815-06-08 13:55 G	12610922.88	12610923.08	12610923.31	0.0088	0.0046 *
Moon	29816-06-09 18:00 G	12611290.02	12611290.25	12611290.52	0.0088	0.0026
Earth	29816-06-09 21:36 G	12611290.16	12611290.40	12611290.65	0.0088	0.0030 *
Earth	29817-06-12 07:41 G	12611657.58	12611657.82	12611658.09	0.0088	0.0019
Moon	29817-06-12 11:31 G	12611657.74	12611657.98	12611658.23	0.0088	0.0023 *
Moon	29818-06-14 15:07 G	12612024.88	12612025.13	12612025.39	0.0088	0.0003
Earth	29818-06-14 18:29 G	12612025.02	12612025.27	12612025.53	0.0088	0.0007 *
Earth	29819-06-17 04:48 G	12612392.44	12612392.70	12612392.96	0.0088	0.0005
Moon	29819-06-17 07:12 G	12612392.54	12612392.80	12612393.07	0.0088	0.0002 *
Moon	29820-06-18 12:57 G	12612759.81	12612760.04	12612760.30	0.0088	0.0021
Earth	29820-06-18 15:07 G	12612759.88	12612760.13	12612760.39	0.0088	0.0016 *
Earth	29821-06-21 01:12 G	12613127.32	12613127.55	12613127.81	0.0088	0.0028
Moon	29821-06-21 01:41 G	12613127.32	12613127.57	12613127.84	0.0088	0.0023 *
Earth	29822-06-23 11:45 G	12613494.77	12613494.99	12613495.23	0.0088	0.0039
Moon	29822-06-23 12:43 G	12613494.82	12613495.03	12613495.26	0.0088	0.0043 *
Moon	29823-06-25 20:24 G	12613862.14	12613862.35	12613862.59	0.0088	0.0046
Earth	29823-06-25 22:05 G	12613862.23	12613862.42	12613862.65	0.0088	0.0051 *
Earth	29824-06-27 08:24 G	12614229.69	12614229.85	12614230.06	0.0088	0.0062
Moon	29824-06-27 11:31 G	12614229.84	12614229.98	12614230.17	0.0088	0.0067 *
Moon	29825-06-29 15:36 G	12614597.02	12614597.15	12614597.34	0.0088	0.0069
Earth	29825-06-29 19:12 G	12614597.18	12614597.30	12614597.46	0.0088	0.0073 *
Earth	29826-07-02 05:45 G	12614964.68	12614964.74	12614964.82	0.0088	0.0084
Venus	29850-10-10 17:17 G	12623831.17	12623831.22	12623831.33	0.0088	0.0083
Venus	29851-05-24 06:57 G	12624056.65	12624056.79	12624056.95	0.0088	0.0064
Venus	29852-01-04 20:09 G	12624282.15	12624282.34	12624282.53	0.0088	0.0046
Venus	29852-08-17 09:07 G	12624507.67	12624507.88	12624508.09	0.0088	0.0028
Venus	29853-03-30 22:05 G	12624733.20	12624733.42	12624733.64	0.0088	0.0010
Venus	29853-11-11 11:02 G	12624958.74	12624958.96	12624959.18	0.0088	0.0009
Venus	29854-06-25 00:14 G	12625184.30	12625184.51	12625184.72	0.0089	0.0027

Venus	29855-02-05 13:12 G	12625409.86	12625410.05	12625410.24	0.0089	0.0045
Venus	29855-09-19 02:09 G	12625635.44	12625635.59	12625635.75	0.0089	0.0063
Venus	29856-05-01 15:07 G	12625861.05	12625861.13	12625861.22	0.0089	0.0081
Mercury	29867-07-30 11:45 G	12629967.94	12629967.99	12629968.06	0.0089	0.0083
Mercury	29867-10-26 14:53 G	12630056.03	12630056.12	12630056.23	0.0089	0.0073
Mercury	29868-01-22 18:14 G	12630144.13	12630144.26	12630144.39	0.0089	0.0063
Mercury	29868-04-19 21:07 G	12630232.25	12630232.38	12630232.54	0.0089	0.0054
Mercury	29868-07-17 00:14 G	12630320.36	12630320.51	12630320.68	0.0089	0.0044
Mercury	29868-10-13 03:21 G	12630408.48	12630408.64	12630408.82	0.0089	0.0034
Mercury	29869-01-09 06:43 G	12630496.60	12630496.78	12630496.95	0.0089	0.0024
Mercury	29869-04-07 09:36 G	12630584.73	12630584.90	12630585.09	0.0089	0.0015
Mercury	29869-07-04 12:57 G	12630672.86	12630673.04	12630673.22	0.0089	0.0005
Mercury	29869-09-30 15:50 G	12630760.98	12630761.16	12630761.34	0.0089	0.0005
Mercury	29869-12-27 18:57 G	12630849.11	12630849.29	12630849.47	0.0089	0.0014
Mercury	29870-03-25 21:50 G	12630937.24	12630937.41	12630937.59	0.0089	0.0024
Mercury	29870-06-22 00:43 G	12631025.38	12631025.53	12631025.71	0.0089	0.0034
Mercury	29870-09-18 03:50 G	12631113.51	12631113.66	12631113.83	0.0089	0.0043
Mercury	29870-12-15 06:43 G	12631201.65	12631201.78	12631201.94	0.0089	0.0053
Mercury	29871-03-13 09:50 G	12631289.79	12631289.91	12631290.04	0.0089	0.0062
Mercury	29871-06-09 12:57 G	12631377.94	12631378.04	12631378.15	0.0089	0.0072
Mercury	29871-09-05 15:36 G	12631466.09	12631466.15	12631466.24	0.0089	0.0081
Mars	29893-11-12 05:45 G	12639569.50	12639569.74	12639569.98	0.0090	0.0053
Earth	29893-11-28 13:55 G	12639586.08	12639586.08	12639586.12	0.0090	0.0089
Earth	29894-12-01 02:38 G	12639953.51	12639953.61	12639953.77	0.0090	0.0078
Moon	29894-12-01 04:33 G	12639953.55	12639953.69	12639953.82	0.0090	0.0075 *
Mars	29895-10-07 03:36 G	12640263.37	12640263.65	12640263.95	0.0090	0.0012
Moon	29895-12-03 12:57 G	12640320.89	12640321.04	12640321.24	0.0090	0.0068
Earth	29895-12-03 15:36 G	12640321.00	12640321.15	12640321.35	0.0090	0.0066 *
Earth	29896-12-05 04:33 G	12640688.51	12640688.69	12640688.92	0.0090	0.0054
Moon	29896-12-05 08:24 G	12640688.64	12640688.85	12640689.06	0.0090	0.0051 *

Mars	29897-08-30 22:48 G	12640957.32	12640957.45	12640957.62	0.0090	0.0076
Moon	29897-12-07 14:24 G	12641055.88	12641056.10	12641056.33	0.0090	0.0044
Earth	29897-12-07 17:45 G	12641056.02	12641056.24	12641056.48	0.0090	0.0041 *
Earth	29898-12-10 06:43 G	12641423.55	12641423.78	12641424.04	0.0090	0.0029
Moon	29898-12-10 10:19 G	12641423.70	12641423.93	12641424.20	0.0090	0.0026 *
Moon	29899-12-12 17:31 G	12641790.98	12641791.23	12641791.47	0.0090	0.0019
Earth	29899-12-12 19:55 G	12641791.09	12641791.33	12641791.60	0.0090	0.0017 *
Earth	29900-12-15 09:07 G	12642158.62	12642158.88	12642159.14	0.0090	0.0004
Moon	29900-12-15 11:45 G	12642158.72	12642158.99	12642159.26	0.0090	0.0000 *
Moon	29901-12-17 21:07 G	12642526.14	12642526.38	12642526.64	0.0090	0.0006
Earth	29901-12-17 22:19 G	12642526.18	12642526.43	12642526.69	0.0090	0.0009 *
Moon	29902-12-20 11:02 G	12642893.71	12642893.96	12642894.23	0.0090	0.0024
Earth	29902-12-20 11:31 G	12642893.73	12642893.98	12642894.23	0.0090	0.0021 *
Earth	29903-12-23 00:14 G	12643261.28	12643261.51	12643261.76	0.0090	0.0034
Moon	29903-12-23 01:12 G	12643261.32	12643261.55	12643261.79	0.0090	0.0030 *
Moon	29904-12-24 10:33 G	12643628.74	12643628.94	12643629.18	0.0090	0.0050
Earth	29904-12-24 13:12 G	12643628.84	12643629.05	12643629.29	0.0090	0.0046 *
Earth	29905-12-27 02:09 G	12643996.40	12643996.59	12643996.79	0.0090	0.0058
Moon	29905-12-27 05:02 G	12643996.53	12643996.71	12643996.93	0.0090	0.0055 *
Moon	29906-12-29 11:17 G	12644363.85	12644363.97	12644364.14	0.0090	0.0075
Earth	29906-12-29 15:21 G	12644363.98	12644364.14	12644364.30	0.0090	0.0070 *
Earth	29908-01-01 03:36 G	12644731.58	12644731.65	12644731.78	0.0090	0.0083
Moon	29908-01-01 07:41 G	12644731.71	12644731.82	12644731.96	0.0090	0.0078 *
Venus	29932-04-16 07:41 G	12653603.72	12653603.82	12653603.96	0.0089	0.0074
Venus	29932-11-27 20:38 G	12653829.21	12653829.36	12653829.55	0.0089	0.0056
Venus	29933-07-11 10:05 G	12654054.72	12654054.92	12654055.12	0.0089	0.0037
Venus	29934-02-21 23:02 G	12654280.25	12654280.46	12654280.68	0.0089	0.0019
Venus	29934-10-05 12:00 G	12654505.78	12654506.00	12654506.22	0.0089	0.0001
Venus	29935-05-19 00:43 G	12654731.32	12654731.53	12654731.75	0.0089	0.0018
Venus	29935-12-30 13:41 G	12654956.88	12654957.07	12654957.29	0.0089	0.0036

Venus	29936-08-12 02:38 G	12655182.45	12655182.61	12655182.80	0.0089	0.0054
Venus	29937-03-25 15:50 G	12655408.04	12655408.16	12655408.29	0.0089	0.0072
Mercury	29948-02-13 08:38 G	12659384.83	12659384.86	12659384.90	0.0088	0.0085
Mercury	29948-05-11 10:05 G	12659472.86	12659472.92	12659472.99	0.0088	0.0078
Mercury	29948-08-07 11:31 G	12659560.91	12659560.98	12659561.07	0.0088	0.0071
Mercury	29948-11-03 12:57 G	12659648.95	12659649.04	12659649.14	0.0088	0.0064
Mercury	29949-01-30 14:24 G	12659737.00	12659737.10	12659737.21	0.0088	0.0056
Mercury	29949-04-28 15:50 G	12659825.06	12659825.16	12659825.28	0.0088	0.0049
Mercury	29949-07-25 17:31 G	12659913.11	12659913.23	12659913.35	0.0088	0.0042
Mercury	29949-10-21 18:57 G	12660001.17	12660001.29	12660001.42	0.0088	0.0035
Mercury	29950-01-17 20:24 G	12660089.22	12660089.35	12660089.49	0.0088	0.0028
Mercury	29950-04-15 21:50 G	12660177.28	12660177.41	12660177.55	0.0088	0.0021
Mercury	29950-07-12 23:31 G	12660265.34	12660265.48	12660265.62	0.0088	0.0013
Mercury	29950-10-09 00:57 G	12660353.40	12660353.54	12660353.68	0.0088	0.0006
Mercury	29951-01-05 02:24 G	12660441.46	12660441.60	12660441.74	0.0088	0.0003
Mercury	29951-04-03 04:05 G	12660529.53	12660529.67	12660529.81	0.0088	0.0009
Mercury	29951-06-30 05:31 G	12660617.59	12660617.73	12660617.87	0.0088	0.0016
Mercury	29951-09-26 06:57 G	12660705.66	12660705.79	12660705.93	0.0088	0.0024
Mercury	29951-12-23 08:24 G	12660793.73	12660793.85	12660793.99	0.0088	0.0031
Mercury	29952-03-20 10:05 G	12660881.79	12660881.92	12660882.05	0.0088	0.0038
Mercury	29952-06-16 11:17 G	12660969.87	12660969.97	12660970.10	0.0088	0.0047
Mercury	29952-09-12 12:57 G	12661057.94	12661058.04	12661058.16	0.0088	0.0053
Mercury	29952-12-09 14:38 G	12661146.01	12661146.11	12661146.21	0.0088	0.0061
Mercury	29953-03-07 16:05 G	12661234.09	12661234.17	12661234.27	0.0088	0.0068
Mercury	29953-06-03 17:45 G	12661322.17	12661322.24	12661322.31	0.0088	0.0075
Mercury	29953-08-30 18:57 G	12661410.26	12661410.29	12661410.35	0.0088	0.0084
Mars	29975-08-02 15:36 G	12669416.95	12669417.15	12669417.41	0.0088	0.0064
Earth	29976-06-01 14:24 G	12669721.03	12669721.10	12669721.21	0.0088	0.0082
Moon	29976-06-01 15:07 G	12669721.07	12669721.13	12669721.25	0.0088	0.0082 *
Moon	29977-06-03 22:19 G	12670088.31	12670088.43	12670088.61	0.0088	0.0072

Earth	29977-06-04 00:43 G	12670088.41	12670088.53	12670088.72	0.0088	0.0071	*
Mars	29977-06-28 13:12 G	12670112.73	12670113.05	12670113.40	0.0088	0.0008	
Earth	29978-06-06 11:45 G	12670455.81	12670455.99	12670456.19	0.0088	0.0059	
Moon	29978-06-06 14:38 G	12670455.93	12670456.11	12670456.31	0.0088	0.0059	*
Mars	29979-05-25 12:00 G	12670808.88	12670809.00	12670809.17	0.0088	0.0079	
Moon	29979-06-08 18:29 G	12670823.07	12670823.27	12670823.50	0.0088	0.0048	
Earth	29979-06-08 22:05 G	12670823.22	12670823.42	12670823.66	0.0088	0.0048	*
Earth	29980-06-10 08:38 G	12671190.64	12671190.86	12671191.11	0.0088	0.0036	
Moon	29980-06-10 12:29 G	12671190.78	12671191.02	12671191.26	0.0088	0.0035	*
Moon	29981-06-12 16:19 G	12671557.94	12671558.18	12671558.43	0.0088	0.0024	
Earth	29981-06-12 19:26 G	12671558.07	12671558.31	12671558.56	0.0088	0.0024	*
Earth	29982-06-15 05:31 G	12671925.49	12671925.73	12671926.00	0.0088	0.0013	
Moon	29982-06-15 07:55 G	12671925.58	12671925.83	12671926.10	0.0088	0.0013	*
Moon	29983-06-17 15:21 G	12672292.89	12672293.14	12672293.39	0.0088	0.0001	
Earth	29983-06-17 16:05 G	12672292.92	12672293.17	12672293.43	0.0088	0.0002	*
Moon	29984-06-19 02:24 G	12672660.34	12672660.60	12672660.87	0.0088	0.0011	
Earth	29984-06-19 02:24 G	12672660.35	12672660.60	12672660.86	0.0088	0.0011	*
Earth	29985-06-21 12:29 G	12673027.79	12673028.02	12673028.29	0.0088	0.0023	
Moon	29985-06-21 14:09 G	12673027.86	12673028.09	12673028.34	0.0088	0.0023	*
Moon	29986-06-23 20:09 G	12673395.11	12673395.34	12673395.60	0.0088	0.0035	
Earth	29986-06-23 23:02 G	12673395.23	12673395.46	12673395.71	0.0088	0.0034	*
Earth	29987-06-26 09:07 G	12673762.68	12673762.88	12673763.12	0.0088	0.0046	
Moon	29987-06-26 12:00 G	12673762.81	12673763.00	12673763.24	0.0088	0.0047	*
Moon	29988-06-27 16:05 G	12674129.99	12674130.17	12674130.37	0.0088	0.0057	
Earth	29988-06-27 19:55 G	12674130.14	12674130.33	12674130.53	0.0088	0.0057	*
Earth	29989-06-30 06:00 G	12674497.61	12674497.75	12674497.93	0.0088	0.0069	
Moon	29989-06-30 09:21 G	12674497.75	12674497.89	12674498.07	0.0088	0.0069	*
Moon	29990-07-02 13:55 G	12674864.98	12674865.08	12674865.19	0.0088	0.0079	
Earth	29990-07-02 16:33 G	12674865.11	12674865.19	12674865.31	0.0088	0.0080	*

# 31ST MILLENNIUM CE

**This is a list of transits visible from Neptune in the 31st millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	30015-01-13 05:02	G	12683825.71	12683825.71	12683825.75	0.0088	0.0088	
Venus	30015-08-26 17:45	G	12684051.14	12684051.24	12684051.40	0.0088	0.0071	
Venus	30016-04-08 06:57	G	12684276.63	12684276.79	12684276.99	0.0088	0.0053	
Venus	30016-11-19 20:09	G	12684502.15	12684502.34	12684502.56	0.0088	0.0034	
Venus	30017-07-03 09:36	G	12684727.68	12684727.90	12684728.12	0.0088	0.0016	
Venus	30018-02-13 22:33	G	12684953.22	12684953.44	12684953.66	0.0088	0.0003	
Venus	30018-09-27 11:31	G	12685178.77	12685178.98	12685179.20	0.0088	0.0020	
Venus	30019-05-11 00:29	G	12685404.33	12685404.52	12685404.73	0.0089	0.0039	
Venus	30019-12-22 13:26	G	12685629.90	12685630.06	12685630.24	0.0089	0.0057	
Venus	30020-08-04 02:24	G	12685855.50	12685855.60	12685855.73	0.0089	0.0075	
Mercury	30032-01-29 07:41	G	12690050.81	12690050.82	12690050.85	0.0089	0.0088	
Mercury	30032-04-26 10:48	G	12690138.88	12690138.95	12690139.05	0.0089	0.0078	
Mercury	30032-07-23 14:09	G	12690226.98	12690227.09	12690227.21	0.0089	0.0068	
Mercury	30032-10-19 17:17	G	12690315.09	12690315.22	12690315.36	0.0089	0.0058	
Mercury	30033-01-15 20:09	G	12690403.20	12690403.34	12690403.51	0.0089	0.0049	
Mercury	30033-04-13 23:17	G	12690491.32	12690491.47	12690491.65	0.0089	0.0039	
Mercury	30033-07-11 02:38	G	12690579.44	12690579.61	12690579.79	0.0089	0.0029	
Mercury	30033-10-07 05:45	G	12690667.57	12690667.74	12690667.92	0.0089	0.0019	
Mercury	30034-01-03 08:53	G	12690755.69	12690755.87	12690756.05	0.0089	0.0010	



Mercury	30034-04-01 12:00 G	12690843.82	12690844.00	12690844.18	0.0089	0.0000
Mercury	30034-06-28 15:07 G	12690931.95	12690932.13	12690932.31	0.0089	0.0010
Mercury	30034-09-24 18:00 G	12691020.08	12691020.25	12691020.43	0.0089	0.0020
Mercury	30034-12-21 21:07 G	12691108.21	12691108.38	12691108.55	0.0089	0.0029
Mercury	30035-03-20 00:00 G	12691196.35	12691196.50	12691196.67	0.0089	0.0039
Mercury	30035-06-16 03:07 G	12691284.48	12691284.63	12691284.78	0.0089	0.0048
Mercury	30035-09-12 05:45 G	12691372.62	12691372.74	12691372.89	0.0089	0.0058
Mercury	30035-12-09 08:53 G	12691460.77	12691460.87	12691461.00	0.0089	0.0068
Mercury	30036-03-06 11:45 G	12691548.92	12691548.99	12691549.10	0.0089	0.0077
Mercury	30036-06-02 14:53 G	12691637.09	12691637.12	12691637.17	0.0089	0.0086
Jupiter	30054-06-12 02:38 G	12698220.14	12698220.61	12698221.14	0.0089	0.0028
Mars	30057-06-28 15:50 G	12699333.02	12699333.16	12699333.37	0.0090	0.0073
Moon	30058-12-01 09:36 G	12699853.80	12699853.90	12699854.03	0.0090	0.0080
Earth	30058-12-01 12:14 G	12699853.95	12699854.01	12699854.12	0.0090	0.0085 *
Mars	30059-05-23 13:55 G	12700026.80	12700027.08	12700027.38	0.0090	0.0008
Earth	30059-12-04 01:26 G	12700221.42	12700221.56	12700221.72	0.0090	0.0072
Moon	30059-12-04 04:33 G	12700221.59	12700221.69	12700221.85	0.0090	0.0077 *
Moon	30060-12-05 10:19 G	12700588.75	12700588.93	12700589.16	0.0090	0.0056
Earth	30060-12-05 14:09 G	12700588.91	12700589.09	12700589.29	0.0090	0.0060 *
Mars	30061-04-16 10:33 G	12700720.73	12700720.94	12700721.18	0.0090	0.0057
Earth	30061-12-08 02:53 G	12700956.42	12700956.62	12700956.85	0.0090	0.0048
Moon	30061-12-08 06:29 G	12700956.56	12700956.77	12700956.99	0.0090	0.0051 *
Moon	30062-12-10 13:26 G	12701323.83	12701324.06	12701324.30	0.0090	0.0031
Earth	30062-12-10 16:19 G	12701323.94	12701324.18	12701324.42	0.0090	0.0035 *
Earth	30063-12-13 04:48 G	12701691.46	12701691.70	12701691.96	0.0090	0.0023
Moon	30063-12-13 06:00 G	12701691.51	12701691.75	12701692.02	0.0090	0.0027 *
Moon	30064-12-14 17:31 G	12702058.98	12702059.23	12702059.48	0.0090	0.0007
Earth	30064-12-14 17:45 G	12702059.00	12702059.24	12702059.51	0.0090	0.0011 *
Moon	30065-12-17 06:14 G	12702426.50	12702426.76	12702427.03	0.0090	0.0002
Earth	30065-12-17 07:12 G	12702426.54	12702426.80	12702427.05	0.0090	0.0003 *

Earth	30066-12-19 19:55 G	12702794.09	12702794.33	12702794.60	0.0090	0.0016
Moon	30066-12-19 22:19 G	12702794.19	12702794.43	12702794.68	0.0090	0.0019 *
Moon	30067-12-22 06:14 G	12703161.52	12703161.76	12703162.03	0.0090	0.0025
Earth	30067-12-22 09:07 G	12703161.64	12703161.88	12703162.14	0.0090	0.0028 *
Earth	30068-12-23 21:50 G	12703529.20	12703529.41	12703529.66	0.0090	0.0041
Moon	30068-12-24 01:26 G	12703529.35	12703529.56	12703529.79	0.0090	0.0044 *
Moon	30069-12-26 07:41 G	12703896.61	12703896.82	12703897.04	0.0090	0.0049
Earth	30069-12-26 11:02 G	12703896.77	12703896.96	12703897.18	0.0090	0.0053 *
Earth	30070-12-29 00:14 G	12704264.34	12704264.51	12704264.69	0.0090	0.0065
Moon	30070-12-29 03:21 G	12704264.49	12704264.64	12704264.83	0.0090	0.0068 *
Moon	30071-12-31 09:50 G	12704631.79	12704631.91	12704632.07	0.0090	0.0075
Earth	30071-12-31 12:43 G	12704631.93	12704632.03	12704632.18	0.0090	0.0078 *
Earth	30073-01-02 01:55 G	12704999.58	12704999.58	12704999.60	0.0090	0.0089
Venus	30096-07-18 19:12 G	12713598.22	12713598.30	12713598.41	0.0089	0.0080
Venus	30097-03-01 08:09 G	12713823.70	12713823.84	12713824.01	0.0089	0.0062
Venus	30097-10-12 21:07 G	12714049.20	12714049.38	12714049.58	0.0089	0.0044
Venus	30098-05-26 10:05 G	12714274.72	12714274.92	12714275.14	0.0089	0.0026
Venus	30099-01-06 23:17 G	12714500.26	12714500.47	12714500.69	0.0089	0.0008
Venus	30099-08-20 12:14 G	12714725.80	12714726.01	12714726.23	0.0089	0.0011
Venus	30100-04-03 00:57 G	12714951.34	12714951.54	12714951.76	0.0089	0.0029
Venus	30100-11-14 14:09 G	12715176.91	12715177.09	12715177.28	0.0089	0.0047
Venus	30101-06-28 03:07 G	12715402.48	12715402.63	12715402.78	0.0089	0.0065
Venus	30102-02-08 15:36 G	12715628.10	12715628.15	12715628.24	0.0089	0.0084
Mercury	30112-08-14 06:57 G	12719467.79	12719467.79	12719467.81	0.0088	0.0088
Mercury	30112-11-10 08:24 G	12719555.81	12719555.85	12719555.91	0.0088	0.0081
Mercury	30113-02-06 09:50 G	12719643.85	12719643.91	12719643.99	0.0088	0.0074
Mercury	30113-05-05 11:31 G	12719731.89	12719731.98	12719732.07	0.0088	0.0067
Mercury	30113-08-01 12:57 G	12719819.94	12719820.04	12719820.14	0.0088	0.0060
Mercury	30113-10-28 14:24 G	12719907.99	12719908.10	12719908.21	0.0088	0.0053
Mercury	30114-01-24 15:50 G	12719996.05	12719996.16	12719996.28	0.0088	0.0045

Mercury	30114-04-22 17:17 G	12720084.10	12720084.22	12720084.35	0.0088	0.0038
Mercury	30114-07-19 18:43 G	12720172.16	12720172.28	12720172.41	0.0088	0.0031
Mercury	30114-10-15 20:24 G	12720260.21	12720260.35	12720260.48	0.0088	0.0024
Mercury	30115-01-11 21:50 G	12720348.27	12720348.41	12720348.55	0.0088	0.0017
Mercury	30115-04-09 23:17 G	12720436.33	12720436.47	12720436.61	0.0088	0.0009
Mercury	30115-07-07 00:43 G	12720524.39	12720524.53	12720524.67	0.0088	0.0003
Mercury	30115-10-03 02:09 G	12720612.46	12720612.59	12720612.73	0.0088	0.0006
Mercury	30115-12-30 03:50 G	12720700.52	12720700.66	12720700.80	0.0088	0.0013
Mercury	30116-03-27 05:17 G	12720788.58	12720788.72	12720788.86	0.0088	0.0020
Mercury	30116-06-23 06:43 G	12720876.65	12720876.78	12720876.92	0.0088	0.0027
Mercury	30116-09-19 08:24 G	12720964.72	12720964.85	12720964.98	0.0088	0.0035
Mercury	30116-12-16 09:36 G	12721052.79	12721052.90	12721053.03	0.0088	0.0043
Mercury	30117-03-14 11:17 G	12721140.86	12721140.97	12721141.09	0.0088	0.0050
Mercury	30117-06-10 12:43 G	12721228.93	12721229.03	12721229.15	0.0088	0.0057
Mercury	30117-09-06 14:24 G	12721317.01	12721317.10	12721317.20	0.0088	0.0064
Mercury	30117-12-03 15:50 G	12721405.09	12721405.16	12721405.25	0.0088	0.0072
Mercury	30118-03-01 17:31 G	12721493.18	12721493.23	12721493.29	0.0088	0.0079
Mercury	30118-05-28 19:12 G	12721581.28	12721581.30	12721581.32	0.0088	0.0087
Mars	30139-03-17 14:24 G	12729179.03	12729179.10	12729179.22	0.0088	0.0084
Mars	30141-02-10 09:36 G	12729874.58	12729874.90	12729875.24	0.0088	0.0014
Earth	30141-06-04 12:14 G	12729988.90	12729989.01	12729989.14	0.0088	0.0077
Moon	30141-06-04 15:36 G	12729989.02	12729989.15	12729989.31	0.0088	0.0073 *
Moon	30142-06-06 18:57 G	12730356.16	12730356.29	12730356.47	0.0088	0.0070
Earth	30142-06-06 22:19 G	12730356.29	12730356.43	12730356.63	0.0088	0.0066 *
Mars	30143-01-07 07:26 G	12730570.57	12730570.81	12730571.08	0.0088	0.0058
Earth	30143-06-09 09:07 G	12730723.70	12730723.88	12730724.10	0.0088	0.0054
Moon	30143-06-09 12:57 G	12730723.83	12730724.04	12730724.26	0.0088	0.0049 *
Moon	30144-06-10 17:17 G	12731091.03	12731091.22	12731091.46	0.0088	0.0047
Earth	30144-06-10 20:09 G	12731091.12	12731091.34	12731091.57	0.0088	0.0042 *
Earth	30145-06-13 06:14 G	12731458.54	12731458.76	12731459.02	0.0088	0.0031

Moon	30145-06-13 08:38 G	12731458.60	12731458.86	12731459.11	0.0088	0.0026	*
Moon	30146-06-15 16:33 G	12731825.96	12731826.19	12731826.44	0.0088	0.0023	
Earth	30146-06-15 17:02 G	12731825.97	12731826.21	12731826.47	0.0088	0.0019	*
Moon	30147-06-18 02:24 G	12732193.34	12732193.60	12732193.87	0.0088	0.0003	
Earth	30147-06-18 03:36 G	12732193.40	12732193.65	12732193.91	0.0088	0.0007	*
Earth	30148-06-19 14:09 G	12732560.83	12732561.09	12732561.35	0.0088	0.0005	
Moon	30148-06-19 16:05 G	12732560.92	12732561.17	12732561.42	0.0088	0.0002	*
Moon	30149-06-21 21:21 G	12732928.15	12732928.39	12732928.66	0.0088	0.0022	
Earth	30149-06-22 00:29 G	12732928.27	12732928.52	12732928.78	0.0088	0.0017	*
Earth	30150-06-24 10:48 G	12733295.71	12733295.95	12733296.20	0.0088	0.0029	
Moon	30150-06-24 14:09 G	12733295.86	12733296.09	12733296.35	0.0088	0.0025	*
Moon	30151-06-26 17:45 G	12733663.03	12733663.24	12733663.47	0.0088	0.0045	
Earth	30151-06-26 21:07 G	12733663.16	12733663.38	12733663.62	0.0088	0.0041	*
Earth	30152-06-28 07:12 G	12734030.62	12734030.80	12734031.03	0.0088	0.0053	
Moon	30152-06-28 10:48 G	12734030.75	12734030.95	12734031.19	0.0088	0.0048	*
Moon	30153-06-30 15:36 G	12734398.02	12734398.15	12734398.32	0.0088	0.0069	
Earth	30153-06-30 18:00 G	12734398.08	12734398.25	12734398.43	0.0088	0.0064	*
Earth	30154-07-03 04:05 G	12734765.57	12734765.67	12734765.82	0.0088	0.0076	
Moon	30154-07-03 05:31 G	12734765.60	12734765.73	12734765.91	0.0088	0.0072	*
Earth	30155-07-05 15:07 G	12735133.11	12735133.13	12735133.16	0.0088	0.0087	
Venus	30179-11-29 05:17 G	12744045.63	12744045.72	12744045.85	0.0088	0.0076	
Venus	30180-07-11 18:29 G	12744271.12	12744271.27	12744271.45	0.0088	0.0058	
Venus	30181-02-22 07:26 G	12744496.63	12744496.81	12744497.03	0.0088	0.0041	
Venus	30181-10-05 20:38 G	12744722.16	12744722.36	12744722.59	0.0088	0.0022	
Venus	30182-05-19 09:50 G	12744947.70	12744947.91	12744948.14	0.0088	0.0005	
Venus	30182-12-30 23:02 G	12745173.24	12745173.46	12745173.68	0.0088	0.0014	
Venus	30183-08-13 12:00 G	12745398.80	12745399.00	12745399.21	0.0088	0.0032	
Venus	30184-03-26 00:43 G	12745624.37	12745624.53	12745624.73	0.0089	0.0051	
Venus	30184-11-06 13:55 G	12745849.96	12745850.08	12745850.23	0.0089	0.0069	
Venus	30185-06-20 02:53 G	12746075.60	12746075.62	12746075.69	0.0089	0.0087	

Mercury	30196-10-26 06:43 G	12750221.73	12750221.78	12750221.86	0.0089	0.0083
Mercury	30197-01-22 09:50 G	12750309.83	12750309.91	12750310.03	0.0089	0.0073
Mercury	30197-04-20 13:12 G	12750397.93	12750398.05	12750398.19	0.0089	0.0063
Mercury	30197-07-17 16:19 G	12750486.05	12750486.18	12750486.34	0.0089	0.0053
Mercury	30197-10-13 19:41 G	12750574.17	12750574.32	12750574.49	0.0089	0.0043
Mercury	30198-01-09 22:48 G	12750662.29	12750662.45	12750662.63	0.0089	0.0033
Mercury	30198-04-08 02:09 G	12750750.41	12750750.59	12750750.76	0.0089	0.0023
Mercury	30198-07-05 05:02 G	12750838.54	12750838.71	12750838.90	0.0089	0.0014
Mercury	30198-10-01 08:24 G	12750926.66	12750926.85	12750927.03	0.0089	0.0004
Mercury	30198-12-28 11:17 G	12751014.79	12751014.97	12751015.16	0.0089	0.0006
Mercury	30199-03-26 14:24 G	12751102.92	12751103.10	12751103.28	0.0089	0.0016
Mercury	30199-06-22 17:31 G	12751191.06	12751191.23	12751191.40	0.0089	0.0025
Mercury	30199-09-18 20:24 G	12751279.19	12751279.35	12751279.52	0.0089	0.0035
Mercury	30199-12-15 23:31 G	12751367.33	12751367.48	12751367.64	0.0089	0.0044
Mercury	30200-03-14 02:24 G	12751455.47	12751455.60	12751455.75	0.0089	0.0054
Mercury	30200-06-10 05:31 G	12751543.61	12751543.73	12751543.86	0.0089	0.0063
Mercury	30200-09-06 08:09 G	12751631.76	12751631.84	12751631.96	0.0089	0.0073
Mercury	30200-12-03 11:17 G	12751719.92	12751719.97	12751720.05	0.0089	0.0082
Jupiter	30220-08-20 02:09 G	12758919.37	12758919.59	12758919.94	0.0089	0.0076
Mars	30223-01-08 01:55 G	12759790.30	12759790.58	12759790.86	0.0090	0.0026
Moon	30223-12-05 07:41 G	12760121.71	12760121.82	12760121.96	0.0090	0.0078
Earth	30223-12-05 11:31 G	12760121.87	12760121.98	12760122.11	0.0090	0.0079 *
Mars	30224-12-01 23:02 G	12760484.20	12760484.46	12760484.73	0.0090	0.0039
Earth	30224-12-07 00:00 G	12760489.35	12760489.50	12760489.69	0.0090	0.0067
Moon	30224-12-07 02:38 G	12760489.46	12760489.61	12760489.81	0.0090	0.0068 *
Moon	30225-12-09 11:31 G	12760856.78	12760856.98	12760857.18	0.0090	0.0053
Earth	30225-12-09 12:43 G	12760856.85	12760857.03	12760857.26	0.0090	0.0055 *
Earth	30226-12-12 01:55 G	12761224.36	12761224.58	12761224.82	0.0090	0.0042
Moon	30226-12-12 02:53 G	12761224.41	12761224.62	12761224.87	0.0090	0.0044 *
Earth	30227-12-14 14:53 G	12761591.88	12761592.12	12761592.37	0.0090	0.0029

Moon	30227-12-14 15:36 G	12761591.92	12761592.15	12761592.39	0.0090	0.0028	*
Moon	30228-12-16 02:09 G	12761959.34	12761959.59	12761959.86	0.0090	0.0017	
Earth	30228-12-16 03:36 G	12761959.41	12761959.65	12761959.92	0.0090	0.0017	*
Earth	30229-12-18 16:48 G	12762326.95	12762327.20	12762327.46	0.0090	0.0004	
Moon	30229-12-18 19:12 G	12762327.05	12762327.30	12762327.55	0.0090	0.0001	*
Moon	30230-12-21 02:24 G	12762694.34	12762694.60	12762694.86	0.0090	0.0008	
Earth	30230-12-21 05:45 G	12762694.49	12762694.74	12762695.00	0.0090	0.0010	*
Earth	30231-12-23 18:29 G	12763062.03	12763062.27	12763062.53	0.0090	0.0022	
Moon	30231-12-23 21:50 G	12763062.18	12763062.41	12763062.67	0.0090	0.0025	*
Moon	30232-12-25 03:50 G	12763429.44	12763429.66	12763429.92	0.0090	0.0033	
Earth	30232-12-25 07:55 G	12763429.59	12763429.83	12763430.07	0.0090	0.0035	*
Earth	30233-12-27 20:38 G	12763797.16	12763797.36	12763797.59	0.0090	0.0048	
Moon	30233-12-27 23:45 G	12763797.28	12763797.49	12763797.72	0.0090	0.0050	*
Moon	30234-12-30 07:26 G	12764164.64	12764164.81	12764165.02	0.0090	0.0058	
Earth	30234-12-30 09:36 G	12764164.73	12764164.90	12764165.11	0.0090	0.0061	*
Earth	30236-01-01 22:33 G	12764532.31	12764532.44	12764532.61	0.0090	0.0073	
Moon	30236-01-02 00:00 G	12764532.38	12764532.50	12764532.66	0.0090	0.0076	*
Earth	30237-01-03 11:17 G	12764899.92	12764899.97	12764900.08	0.0090	0.0086	
Moon	30237-01-03 12:00 G	12764899.92	12764900.00	12764900.11	0.0090	0.0083	*
Venus	30260-10-22 06:43 G	12773592.74	12773592.78	12773592.85	0.0089	0.0086	
Venus	30261-06-04 19:41 G	12773818.20	12773818.32	12773818.48	0.0089	0.0068	
Venus	30262-01-16 08:53 G	12774043.70	12774043.87	12774044.06	0.0089	0.0050	
Venus	30262-08-29 21:50 G	12774269.22	12774269.41	12774269.63	0.0089	0.0032	
Venus	30263-04-12 10:48 G	12774494.75	12774494.95	12774495.18	0.0089	0.0014	
Venus	30263-11-24 00:00 G	12774720.29	12774720.50	12774720.72	0.0089	0.0005	
Venus	30264-07-06 12:57 G	12774945.83	12774946.04	12774946.26	0.0089	0.0023	
Venus	30265-02-17 01:55 G	12775171.39	12775171.58	12775171.78	0.0089	0.0041	
Venus	30265-09-30 14:38 G	12775396.96	12775397.11	12775397.28	0.0089	0.0059	
Venus	30266-05-14 03:36 G	12775622.55	12775622.65	12775622.76	0.0089	0.0077	
Mercury	30277-05-12 06:43 G	12779638.76	12779638.78	12779638.84	0.0088	0.0085	

Mercury	30277-08-08 08:09 G	12779726.79	12779726.84	12779726.92	0.0088	0.0078
Mercury	30277-11-04 09:36 G	12779814.84	12779814.90	12779815.00	0.0088	0.0071
Mercury	30278-01-31 11:02 G	12779902.88	12779902.96	12779903.07	0.0088	0.0064
Mercury	30278-04-29 12:57 G	12779990.93	12779991.04	12779991.14	0.0088	0.0056
Mercury	30278-07-26 14:09 G	12780078.98	12780079.09	12780079.21	0.0088	0.0049
Mercury	30278-10-22 15:36 G	12780167.04	12780167.15	12780167.28	0.0088	0.0042
Mercury	30279-01-18 17:02 G	12780255.09	12780255.21	12780255.35	0.0088	0.0035
Mercury	30279-04-16 18:29 G	12780343.15	12780343.27	12780343.41	0.0088	0.0028
Mercury	30279-07-13 20:09 G	12780431.21	12780431.34	12780431.48	0.0088	0.0020
Mercury	30279-10-09 21:36 G	12780519.27	12780519.40	12780519.54	0.0088	0.0013
Mercury	30280-01-05 23:02 G	12780607.33	12780607.46	12780607.60	0.0088	0.0006
Mercury	30280-04-03 00:43 G	12780695.39	12780695.53	12780695.67	0.0088	0.0003
Mercury	30280-06-30 02:09 G	12780783.45	12780783.59	12780783.73	0.0088	0.0009
Mercury	30280-09-26 03:36 G	12780871.51	12780871.65	12780871.79	0.0088	0.0017
Mercury	30280-12-23 05:02 G	12780959.58	12780959.71	12780959.85	0.0088	0.0024
Mercury	30281-03-21 06:29 G	12781047.65	12781047.77	12781047.91	0.0088	0.0031
Mercury	30281-06-17 08:09 G	12781135.71	12781135.84	12781135.97	0.0088	0.0039
Mercury	30281-09-13 09:21 G	12781223.78	12781223.89	12781224.02	0.0088	0.0047
Mercury	30281-12-10 11:02 G	12781311.86	12781311.96	12781312.08	0.0088	0.0054
Mercury	30282-03-08 12:29 G	12781399.93	12781400.02	12781400.13	0.0088	0.0061
Mercury	30282-06-04 14:09 G	12781488.01	12781488.09	12781488.18	0.0088	0.0068
Mercury	30282-08-31 15:50 G	12781576.09	12781576.16	12781576.23	0.0088	0.0076
Mercury	30282-11-27 17:02 G	12781664.18	12781664.21	12781664.27	0.0088	0.0084
Mars	30304-09-26 09:36 G	12789636.60	12789636.90	12789637.23	0.0088	0.0033
Moon	30305-06-05 20:38 G	12789889.27	12789889.36	12789889.46	0.0088	0.0081
Earth	30305-06-05 23:45 G	12789889.44	12789889.49	12789889.59	0.0088	0.0084 *
Earth	30306-06-08 10:19 G	12790256.80	12790256.93	12790257.10	0.0088	0.0072
Moon	30306-06-08 13:12 G	12790256.93	12790257.05	12790257.22	0.0088	0.0074 *
Mars	30306-08-23 04:48 G	12790332.42	12790332.70	12790333.03	0.0088	0.0038
Moon	30307-06-10 18:29 G	12790624.10	12790624.27	12790624.47	0.0088	0.0059

Earth	30307-06-10 21:07 G	12790624.20	12790624.38	12790624.58	0.0088	0.0060	*
Earth	30308-06-12 07:41 G	12790991.61	12790991.82	12790992.04	0.0088	0.0048	
Moon	30308-06-12 08:38 G	12790991.65	12790991.86	12790992.08	0.0088	0.0050	*
Earth	30309-06-14 18:00 G	12791359.03	12791359.25	12791359.50	0.0088	0.0037	
Moon	30309-06-14 18:29 G	12791359.05	12791359.27	12791359.51	0.0088	0.0035	*
Moon	30310-06-17 03:21 G	12791726.40	12791726.64	12791726.91	0.0088	0.0026	
Earth	30310-06-17 04:33 G	12791726.46	12791726.69	12791726.95	0.0088	0.0025	*
Earth	30311-06-19 15:07 G	12792093.89	12792094.13	12792094.40	0.0088	0.0013	
Moon	30311-06-19 18:00 G	12792094.01	12792094.25	12792094.51	0.0088	0.0011	*
Moon	30312-06-20 22:48 G	12792461.19	12792461.45	12792461.71	0.0088	0.0002	
Earth	30312-06-21 01:55 G	12792461.33	12792461.58	12792461.84	0.0088	0.0002	*
Earth	30313-06-23 12:14 G	12792828.76	12792829.01	12792829.27	0.0088	0.0012	
Moon	30313-06-23 15:50 G	12792828.91	12792829.16	12792829.42	0.0088	0.0013	*
Moon	30314-06-25 19:12 G	12793196.06	12793196.30	12793196.55	0.0088	0.0022	
Earth	30314-06-25 22:33 G	12793196.20	12793196.44	12793196.70	0.0088	0.0024	*
Earth	30315-06-28 08:53 G	12793563.65	12793563.87	12793564.12	0.0088	0.0036	
Moon	30315-06-28 11:31 G	12793563.76	12793563.98	12793564.24	0.0088	0.0037	*
Moon	30316-06-29 17:02 G	12793931.02	12793931.21	12793931.44	0.0088	0.0047	
Earth	30316-06-29 19:12 G	12793931.10	12793931.30	12793931.53	0.0088	0.0048	*
Earth	30317-07-02 05:17 G	12794298.56	12794298.72	12794298.94	0.0088	0.0060	
Moon	30317-07-02 06:00 G	12794298.58	12794298.75	12794298.96	0.0088	0.0061	*
Earth	30318-07-04 15:36 G	12794666.03	12794666.15	12794666.33	0.0088	0.0072	
Moon	30318-07-04 16:19 G	12794666.06	12794666.18	12794666.35	0.0088	0.0071	*
Moon	30319-07-07 00:29 G	12795033.47	12795033.52	12795033.63	0.0088	0.0084	
Earth	30319-07-07 02:24 G	12795033.54	12795033.60	12795033.70	0.0088	0.0083	*
Venus	30344-03-03 17:17 G	12804040.15	12804040.22	12804040.31	0.0088	0.0082	
Venus	30344-10-15 06:29 G	12804265.62	12804265.77	12804265.92	0.0088	0.0064	
Venus	30345-05-28 19:12 G	12804491.13	12804491.30	12804491.50	0.0088	0.0046	
Venus	30346-01-09 08:09 G	12804716.65	12804716.84	12804717.07	0.0088	0.0029	
Venus	30346-08-22 21:36 G	12804942.18	12804942.40	12804942.62	0.0088	0.0010	



Venus	30347-04-05 10:33 G	12805167.72	12805167.94	12805168.16	0.0088	0.0008
Venus	30347-11-16 23:17 G	12805393.27	12805393.47	12805393.70	0.0088	0.0027
Venus	30348-06-29 12:29 G	12805618.84	12805619.02	12805619.23	0.0089	0.0044
Venus	30349-02-10 01:26 G	12805844.42	12805844.56	12805844.73	0.0089	0.0063
Venus	30349-09-23 14:24 G	12806070.03	12806070.10	12806070.21	0.0089	0.0081
Mercury	30361-04-28 03:07 G	12810304.60	12810304.63	12810304.66	0.0089	0.0087
Mercury	30361-07-25 06:14 G	12810392.68	12810392.76	12810392.85	0.0089	0.0077
Mercury	30361-10-21 09:36 G	12810480.78	12810480.90	12810481.02	0.0089	0.0067
Mercury	30362-01-17 12:43 G	12810568.89	12810569.03	12810569.17	0.0089	0.0057
Mercury	30362-04-15 15:36 G	12810657.01	12810657.15	12810657.32	0.0089	0.0048
Mercury	30362-07-12 18:43 G	12810745.13	12810745.28	12810745.46	0.0089	0.0038
Mercury	30362-10-08 22:05 G	12810833.25	12810833.42	12810833.60	0.0089	0.0028
Mercury	30363-01-05 01:12 G	12810921.38	12810921.55	12810921.74	0.0089	0.0018
Mercury	30363-04-03 04:33 G	12811009.51	12811009.69	12811009.87	0.0089	0.0008
Mercury	30363-06-30 07:41 G	12811097.64	12811097.82	12811098.00	0.0089	0.0002
Mercury	30363-09-26 10:48 G	12811185.77	12811185.95	12811186.13	0.0089	0.0012
Mercury	30363-12-23 13:41 G	12811273.90	12811274.07	12811274.25	0.0089	0.0021
Mercury	30364-03-20 16:33 G	12811362.03	12811362.19	12811362.37	0.0089	0.0031
Mercury	30364-06-16 19:55 G	12811450.17	12811450.33	12811450.49	0.0089	0.0040
Mercury	30364-09-12 22:48 G	12811538.31	12811538.45	12811538.61	0.0089	0.0050
Mercury	30364-12-10 01:41 G	12811626.45	12811626.57	12811626.72	0.0089	0.0060
Mercury	30365-03-08 04:48 G	12811714.60	12811714.70	12811714.82	0.0089	0.0069
Mercury	30365-06-04 07:26 G	12811802.75	12811802.81	12811802.92	0.0089	0.0079
Mercury	30365-08-31 10:33 G	12811890.94	12811890.94	12811890.98	0.0089	0.0089
Mars	30386-08-24 11:17 G	12819553.73	12819553.97	12819554.24	0.0090	0.0045
Earth	30387-12-05 20:38 G	12820022.32	12820022.36	12820022.46	0.0090	0.0087
Moon	30387-12-05 23:17 G	12820022.39	12820022.47	12820022.61	0.0090	0.0082 *
Mars	30388-07-18 11:17 G	12820247.69	12820247.97	12820248.27	0.0090	0.0021
Moon	30388-12-07 08:38 G	12820389.76	12820389.86	12820390.00	0.0090	0.0079
Earth	30388-12-07 09:50 G	12820389.79	12820389.91	12820390.08	0.0090	0.0074 *

Moon	30389-12-09 22:33 G	12820757.26	12820757.44	12820757.67	0.0090	0.0057
Earth	30389-12-09 23:02 G	12820757.28	12820757.46	12820757.66	0.0090	0.0061 *
Mars	30390-06-12 07:41 G	12820941.75	12820941.82	12820941.94	0.0090	0.0085
Earth	30390-12-12 11:31 G	12821124.79	12821124.98	12821125.22	0.0090	0.0049
Moon	30390-12-12 12:29 G	12821124.84	12821125.02	12821125.24	0.0090	0.0053 *
Moon	30391-12-14 22:19 G	12821492.19	12821492.43	12821492.69	0.0090	0.0031
Earth	30391-12-15 00:29 G	12821492.30	12821492.52	12821492.78	0.0090	0.0036 *
Earth	30392-12-16 13:26 G	12821859.83	12821860.06	12821860.33	0.0090	0.0023
Moon	30392-12-16 16:48 G	12821859.96	12821860.20	12821860.44	0.0090	0.0027 *
Moon	30393-12-18 23:17 G	12822227.21	12822227.47	12822227.74	0.0090	0.0005
Earth	30393-12-19 02:38 G	12822227.36	12822227.61	12822227.88	0.0090	0.0010 *
Earth	30394-12-21 15:36 G	12822594.89	12822595.15	12822595.41	0.0090	0.0004
Moon	30394-12-21 19:12 G	12822595.04	12822595.30	12822595.56	0.0090	0.0002 *
Moon	30395-12-24 01:26 G	12822962.32	12822962.56	12822962.81	0.0090	0.0021
Earth	30395-12-24 04:19 G	12822962.44	12822962.68	12822962.94	0.0090	0.0017 *
Earth	30396-12-25 17:17 G	12823329.99	12823330.22	12823330.47	0.0090	0.0029
Moon	30396-12-25 20:09 G	12823330.10	12823330.34	12823330.60	0.0090	0.0025 *
Moon	30397-12-28 04:48 G	12823697.50	12823697.70	12823697.93	0.0090	0.0047
Earth	30397-12-28 06:00 G	12823697.55	12823697.75	12823698.00	0.0090	0.0043 *
Moon	30398-12-30 19:55 G	12824065.11	12824065.33	12824065.55	0.0090	0.0051
Earth	30398-12-30 19:26 G	12824065.12	12824065.31	12824065.52	0.0090	0.0055 *
Earth	30400-01-02 08:09 G	12824432.69	12824432.84	12824433.03	0.0090	0.0068
Moon	30400-01-02 08:53 G	12824432.74	12824432.87	12824433.03	0.0090	0.0072 *
Moon	30401-01-03 19:26 G	12824800.18	12824800.31	12824800.46	0.0090	0.0076
Earth	30401-01-03 21:21 G	12824800.30	12824800.39	12824800.52	0.0090	0.0081 *
Venus	30425-09-07 07:12 G	12833812.70	12833812.80	12833812.94	0.0089	0.0074
Venus	30426-04-20 20:09 G	12834038.19	12834038.34	12834038.53	0.0089	0.0056
Venus	30426-12-02 09:21 G	12834263.71	12834263.89	12834264.11	0.0089	0.0038
Venus	30427-07-15 22:33 G	12834489.23	12834489.44	12834489.66	0.0089	0.0020
Venus	30428-02-26 11:45 G	12834714.77	12834714.99	12834715.21	0.0089	0.0001

Venus	30428-10-09 00:29 G	12834940.31	12834940.52	12834940.74	0.0089	0.0017
Venus	30429-05-22 13:26 G	12835165.87	12835166.06	12835166.27	0.0089	0.0035
Venus	30430-01-03 02:24 G	12835391.44	12835391.60	12835391.79	0.0089	0.0053
Venus	30430-08-16 15:21 G	12835617.02	12835617.14	12835617.28	0.0089	0.0071
Mercury	30441-11-11 05:17 G	12839721.72	12839721.72	12839721.76	0.0088	0.0088
Mercury	30442-02-07 06:43 G	12839809.74	12839809.78	12839809.85	0.0088	0.0081
Mercury	30442-05-06 08:09 G	12839897.78	12839897.84	12839897.93	0.0088	0.0074
Mercury	30442-08-02 10:05 G	12839985.83	12839985.92	12839986.01	0.0088	0.0066
Mercury	30442-10-29 11:17 G	12840073.88	12840073.97	12840074.08	0.0088	0.0059
Mercury	30443-01-25 12:43 G	12840161.93	12840162.03	12840162.15	0.0088	0.0052
Mercury	30443-04-23 14:09 G	12840249.98	12840250.09	12840250.22	0.0088	0.0045
Mercury	30443-07-20 15:36 G	12840338.03	12840338.15	12840338.28	0.0088	0.0038
Mercury	30443-10-16 17:02 G	12840426.09	12840426.21	12840426.35	0.0088	0.0031
Mercury	30444-01-12 18:43 G	12840514.15	12840514.28	12840514.41	0.0088	0.0023
Mercury	30444-04-09 20:09 G	12840602.21	12840602.34	12840602.48	0.0088	0.0016
Mercury	30444-07-06 21:36 G	12840690.26	12840690.40	12840690.54	0.0088	0.0008
Mercury	30444-10-02 23:02 G	12840778.33	12840778.46	12840778.60	0.0088	0.0003
Mercury	30444-12-30 00:43 G	12840866.39	12840866.53	12840866.66	0.0088	0.0007
Mercury	30445-03-28 02:09 G	12840954.45	12840954.59	12840954.73	0.0088	0.0014
Mercury	30445-06-24 03:21 G	12841042.52	12841042.64	12841042.79	0.0088	0.0022
Mercury	30445-09-20 05:02 G	12841130.58	12841130.71	12841130.84	0.0088	0.0028
Mercury	30445-12-17 06:29 G	12841218.65	12841218.77	12841218.90	0.0088	0.0036
Mercury	30446-03-15 07:55 G	12841306.72	12841306.83	12841306.96	0.0088	0.0043
Mercury	30446-06-11 09:21 G	12841394.79	12841394.89	12841395.02	0.0088	0.0051
Mercury	30446-09-07 11:02 G	12841482.86	12841482.96	12841483.07	0.0088	0.0058
Mercury	30446-12-04 12:29 G	12841570.94	12841571.02	12841571.12	0.0088	0.0065
Mercury	30447-03-02 14:09 G	12841659.01	12841659.09	12841659.17	0.0088	0.0073
Mercury	30447-05-29 15:21 G	12841747.10	12841747.14	12841747.21	0.0088	0.0081
Mercury	30447-08-25 17:02 G	12841835.21	12841835.21	12841835.24	0.0088	0.0088
Mars	30468-05-10 11:02 G	12849398.72	12849398.96	12849399.26	0.0088	0.0052

Mars	30470-04-06 05:17 G	12850094.40	12850094.72	12850095.06	0.0088	0.0018
Moon	30470-06-07 20:38 G	12850157.27	12850157.36	12850157.52	0.0088	0.0076
Earth	30470-06-07 22:05 G	12850157.34	12850157.42	12850157.56	0.0088	0.0079 *
Earth	30471-06-10 08:38 G	12850524.72	12850524.86	12850525.05	0.0088	0.0067
Moon	30471-06-10 09:50 G	12850524.76	12850524.91	12850525.08	0.0088	0.0070 *
Earth	30472-06-11 19:26 G	12850892.13	12850892.31	12850892.53	0.0088	0.0055
Moon	30472-06-11 20:24 G	12850892.16	12850892.35	12850892.57	0.0088	0.0051 *
Moon	30473-06-14 03:36 G	12851259.44	12851259.65	12851259.89	0.0088	0.0046
Earth	30473-06-14 05:45 G	12851259.54	12851259.74	12851259.99	0.0088	0.0043 *
Earth	30474-06-16 16:19 G	12851626.96	12851627.18	12851627.44	0.0088	0.0031
Moon	30474-06-16 19:12 G	12851627.07	12851627.30	12851627.55	0.0088	0.0027 *
Moon	30475-06-18 23:45 G	12851994.24	12851994.49	12851994.75	0.0088	0.0022
Earth	30475-06-19 03:36 G	12851994.40	12851994.65	12851994.90	0.0088	0.0018 *
Earth	30476-06-20 13:55 G	12852361.83	12852362.08	12852362.34	0.0088	0.0006
Moon	30476-06-20 17:17 G	12852361.97	12852362.22	12852362.49	0.0088	0.0003 *
Moon	30477-06-22 21:21 G	12852729.14	12852729.39	12852729.64	0.0088	0.0002
Earth	30477-06-23 00:29 G	12852729.27	12852729.52	12852729.78	0.0088	0.0007 *
Earth	30478-06-25 10:48 G	12853096.71	12853096.95	12853097.21	0.0088	0.0019
Moon	30478-06-25 13:26 G	12853096.81	12853097.06	12853097.32	0.0088	0.0023 *
Moon	30479-06-27 20:24 G	12853464.12	12853464.35	12853464.59	0.0088	0.0027
Earth	30479-06-27 21:21 G	12853464.16	12853464.39	12853464.64	0.0088	0.0031 *
Earth	30480-06-29 07:41 G	12853831.61	12853831.82	12853832.06	0.0088	0.0043
Moon	30480-06-29 07:55 G	12853831.63	12853831.83	12853832.08	0.0088	0.0047 *
Earth	30481-07-01 18:00 G	12854199.06	12854199.25	12854199.46	0.0088	0.0055
Moon	30481-07-01 19:26 G	12854199.11	12854199.31	12854199.52	0.0088	0.0051 *
Moon	30482-07-04 01:26 G	12854566.44	12854566.56	12854566.75	0.0088	0.0071
Earth	30482-07-04 04:19 G	12854566.54	12854566.68	12854566.86	0.0088	0.0067 *
Earth	30483-07-06 14:38 G	12854934.02	12854934.11	12854934.24	0.0088	0.0079
Moon	30483-07-06 17:31 G	12854934.12	12854934.23	12854934.38	0.0088	0.0075 *
Venus	30508-06-06 05:02 G	12864034.70	12864034.71	12864034.76	0.0088	0.0088

Venus	30509-01-17 18:00 G	12864260.13	12864260.25	12864260.40	0.0088	0.0070
Venus	30509-08-31 07:12 G	12864485.63	12864485.80	12864485.99	0.0088	0.0052
Venus	30510-04-13 20:09 G	12864711.14	12864711.34	12864711.55	0.0088	0.0034
Venus	30510-11-25 09:21 G	12864936.67	12864936.89	12864937.11	0.0088	0.0016
Venus	30511-07-08 22:33 G	12865162.22	12865162.44	12865162.66	0.0088	0.0002
Venus	30512-02-19 11:17 G	12865387.77	12865387.97	12865388.20	0.0088	0.0021
Venus	30512-10-02 00:14 G	12865613.32	12865613.51	12865613.72	0.0088	0.0038
Venus	30513-05-15 13:12 G	12865838.90	12865839.05	12865839.24	0.0089	0.0057
Venus	30513-12-27 02:09 G	12866064.49	12866064.59	12866064.73	0.0089	0.0075
Mercury	30526-01-24 01:55 G	12870475.53	12870475.58	12870475.67	0.0089	0.0082
Mercury	30526-04-22 05:17 G	12870563.63	12870563.72	12870563.84	0.0089	0.0072
Mercury	30526-07-19 08:38 G	12870651.74	12870651.86	12870652.00	0.0089	0.0062
Mercury	30526-10-15 11:45 G	12870739.85	12870739.99	12870740.15	0.0089	0.0052
Mercury	30527-01-11 15:07 G	12870827.97	12870828.13	12870828.30	0.0089	0.0042
Mercury	30527-04-09 18:14 G	12870916.09	12870916.26	12870916.44	0.0089	0.0032
Mercury	30527-07-06 21:36 G	12871004.22	12871004.40	12871004.57	0.0089	0.0022
Mercury	30527-10-03 00:43 G	12871092.35	12871092.53	12871092.71	0.0089	0.0012
Mercury	30527-12-30 03:50 G	12871180.48	12871180.66	12871180.84	0.0089	0.0003
Mercury	30528-03-27 06:57 G	12871268.61	12871268.79	12871268.97	0.0089	0.0007
Mercury	30528-06-23 09:50 G	12871356.74	12871356.91	12871357.10	0.0089	0.0017
Mercury	30528-09-19 12:57 G	12871444.87	12871445.04	12871445.22	0.0089	0.0027
Mercury	30528-12-16 16:05 G	12871533.01	12871533.17	12871533.34	0.0089	0.0036
Mercury	30529-03-14 18:57 G	12871621.15	12871621.29	12871621.46	0.0089	0.0046
Mercury	30529-06-10 21:50 G	12871709.29	12871709.41	12871709.57	0.0089	0.0056
Mercury	30529-09-07 01:12 G	12871797.43	12871797.55	12871797.68	0.0089	0.0065
Mercury	30529-12-04 03:50 G	12871885.59	12871885.66	12871885.78	0.0089	0.0076
Mercury	30530-03-02 07:12 G	12871973.75	12871973.80	12871973.86	0.0089	0.0084
Mars	30550-04-09 20:38 G	12879317.19	12879317.36	12879317.61	0.0090	0.0064
Mars	30552-03-03 21:21 G	12880011.10	12880011.39	12880011.69	0.0090	0.0002
Moon	30552-12-07 19:41 G	12880290.22	12880290.32	12880290.45	0.0090	0.0081

Earth	30552-12-07 20:09 G	12880290.25	12880290.34	12880290.47	0.0090	0.0081	*
Earth	30553-12-10 09:07 G	12880657.73	12880657.88	12880658.07	0.0090	0.0068	
Moon	30553-12-10 11:17 G	12880657.82	12880657.97	12880658.15	0.0090	0.0067	*
Mars	30554-01-26 20:09 G	12880705.17	12880705.34	12880705.56	0.0090	0.0067	
Moon	30554-12-12 19:55 G	12881025.12	12881025.33	12881025.53	0.0090	0.0055	
Earth	30554-12-12 22:19 G	12881025.23	12881025.43	12881025.64	0.0090	0.0055	*
Earth	30555-12-15 11:02 G	12881392.74	12881392.96	12881393.20	0.0090	0.0042	
Moon	30555-12-15 14:38 G	12881392.89	12881393.11	12881393.34	0.0090	0.0042	*
Moon	30556-12-16 20:24 G	12881760.12	12881760.35	12881760.61	0.0090	0.0030	
Earth	30556-12-17 00:14 G	12881760.27	12881760.51	12881760.76	0.0090	0.0029	*
Earth	30557-12-19 12:57 G	12882127.79	12882128.04	12882128.30	0.0090	0.0016	
Moon	30557-12-19 16:19 G	12882127.93	12882128.18	12882128.44	0.0090	0.0017	*
Moon	30558-12-21 23:02 G	12882495.20	12882495.46	12882495.71	0.0090	0.0002	
Earth	30558-12-22 01:55 G	12882495.32	12882495.58	12882495.84	0.0090	0.0003	*
Earth	30559-12-24 14:38 G	12882862.86	12882863.11	12882863.37	0.0090	0.0011	
Moon	30559-12-24 16:19 G	12882862.92	12882863.18	12882863.45	0.0090	0.0010	*
Moon	30560-12-26 02:24 G	12883230.37	12883230.60	12883230.85	0.0090	0.0025	
Earth	30560-12-26 03:21 G	12883230.40	12883230.64	12883230.90	0.0090	0.0024	*
Moon	30561-12-28 15:50 G	12883597.93	12883598.16	12883598.42	0.0090	0.0036	
Earth	30561-12-28 16:19 G	12883597.95	12883598.18	12883598.42	0.0090	0.0037	*
Earth	30562-12-31 05:02 G	12883965.51	12883965.71	12883965.94	0.0090	0.0050	
Moon	30562-12-31 06:43 G	12883965.59	12883965.78	12883966.00	0.0090	0.0051	*
Moon	30564-01-02 15:21 G	12884332.98	12884333.14	12884333.36	0.0090	0.0062	
Earth	30564-01-02 18:00 G	12884333.08	12884333.25	12884333.45	0.0090	0.0063	*
Earth	30565-01-04 06:57 G	12884700.67	12884700.79	12884700.95	0.0090	0.0076	
Moon	30565-01-04 10:05 G	12884700.82	12884700.92	12884701.08	0.0090	0.0078	*
Moon	30566-01-06 16:05 G	12885068.15	12885068.17	12885068.26	0.0090	0.0088	
Earth	30566-01-06 19:41 G	12885068.31	12885068.32	12885068.40	0.0090	0.0089	
Venus	30589-12-10 18:57 G	12893807.22	12893807.29	12893807.41	0.0089	0.0080	
Venus	30590-07-24 07:55 G	12894032.70	12894032.83	12894033.01	0.0089	0.0062	

Venus	30591-03-06 21:07 G	12894258.21	12894258.38	12894258.59	0.0089	0.0044
Venus	30591-10-18 10:05 G	12894483.73	12894483.92	12894484.15	0.0089	0.0026
Venus	30592-05-30 23:31 G	12894709.26	12894709.48	12894709.70	0.0089	0.0007
Venus	30593-01-11 12:29 G	12894934.81	12894935.02	12894935.24	0.0089	0.0011
Venus	30593-08-25 01:26 G	12895160.36	12895160.56	12895160.77	0.0089	0.0029
Venus	30594-04-07 14:09 G	12895385.92	12895386.09	12895386.29	0.0089	0.0047
Venus	30594-11-19 03:07 G	12895611.50	12895611.63	12895611.79	0.0089	0.0065
Venus	30595-07-02 16:05 G	12895837.11	12895837.17	12895837.26	0.0089	0.0083
Mercury	30606-08-10 05:17 G	12899892.69	12899892.72	12899892.78	0.0088	0.0084
Mercury	30606-11-06 06:43 G	12899980.73	12899980.78	12899980.86	0.0088	0.0077
Mercury	30607-02-02 08:09 G	12900068.77	12900068.84	12900068.94	0.0088	0.0069
Mercury	30607-05-01 09:50 G	12900156.82	12900156.91	12900157.01	0.0088	0.0062
Mercury	30607-07-28 11:17 G	12900244.87	12900244.97	12900245.08	0.0088	0.0055
Mercury	30607-10-24 12:43 G	12900332.92	12900333.03	12900333.15	0.0088	0.0048
Mercury	30608-01-20 14:09 G	12900420.97	12900421.09	12900421.22	0.0088	0.0040
Mercury	30608-04-17 15:36 G	12900509.03	12900509.15	12900509.28	0.0088	0.0033
Mercury	30608-07-14 17:02 G	12900597.08	12900597.21	12900597.35	0.0088	0.0026
Mercury	30608-10-10 18:43 G	12900685.14	12900685.28	12900685.41	0.0088	0.0019
Mercury	30609-01-06 20:09 G	12900773.20	12900773.34	12900773.48	0.0088	0.0012
Mercury	30609-04-04 21:36 G	12900861.26	12900861.40	12900861.54	0.0088	0.0004
Mercury	30609-07-01 23:02 G	12900949.32	12900949.46	12900949.60	0.0088	0.0003
Mercury	30609-09-28 00:29 G	12901037.39	12901037.52	12901037.66	0.0088	0.0011
Mercury	30609-12-25 01:55 G	12901125.45	12901125.58	12901125.72	0.0088	0.0018
Mercury	30610-03-23 03:21 G	12901213.51	12901213.64	12901213.78	0.0088	0.0025
Mercury	30610-06-19 05:02 G	12901301.58	12901301.71	12901301.84	0.0088	0.0032
Mercury	30610-09-15 06:29 G	12901389.65	12901389.77	12901389.90	0.0088	0.0040
Mercury	30610-12-12 07:55 G	12901477.72	12901477.83	12901477.95	0.0088	0.0047
Mercury	30611-03-10 09:21 G	12901565.79	12901565.89	12901566.01	0.0088	0.0055
Mercury	30611-06-06 10:48 G	12901653.86	12901653.95	12901654.06	0.0088	0.0062
Mercury	30611-09-02 12:29 G	12901741.94	12901742.02	12901742.11	0.0088	0.0069

Mercury	30611-11-29 14:09 G	12901830.02	12901830.09	12901830.16	0.0088	0.0077
Mercury	30612-02-25 15:21 G	12901918.11	12901918.14	12901918.19	0.0088	0.0085
Jupiter	30629-06-07 03:36 G	12908229.39	12908229.65	12908229.94	0.0088	0.0076
Mars	30631-12-25 13:41 G	12909160.91	12909161.07	12909161.30	0.0088	0.0071
Mars	30633-11-20 06:00 G	12909856.42	12909856.75	12909857.09	0.0088	0.0001
Moon	30634-06-09 09:50 G	12910057.84	12910057.91	12910058.03	0.0088	0.0082
Earth	30634-06-09 10:05 G	12910057.90	12910057.92	12910058.01	0.0088	0.0086 *
Earth	30635-06-11 21:07 G	12910425.25	12910425.38	12910425.53	0.0088	0.0073
Moon	30635-06-11 22:19 G	12910425.32	12910425.43	12910425.56	0.0088	0.0076 *
Mars	30635-10-17 00:00 G	12910552.31	12910552.50	12910552.72	0.0088	0.0069
Moon	30636-06-13 04:48 G	12910792.52	12910792.70	12910792.92	0.0088	0.0058
Earth	30636-06-13 07:41 G	12910792.64	12910792.82	12910793.01	0.0088	0.0061 *
Earth	30637-06-15 17:45 G	12911160.05	12911160.24	12911160.47	0.0088	0.0049
Moon	30637-06-15 21:07 G	12911160.20	12911160.38	12911160.60	0.0088	0.0053 *
Moon	30638-06-18 00:57 G	12911527.32	12911527.54	12911527.79	0.0088	0.0034
Earth	30638-06-18 04:33 G	12911527.47	12911527.69	12911527.93	0.0088	0.0037 *
Earth	30639-06-20 15:07 G	12911894.88	12911895.13	12911895.38	0.0088	0.0024
Moon	30639-06-20 18:43 G	12911895.04	12911895.28	12911895.53	0.0088	0.0027 *
Moon	30640-06-21 23:02 G	12912262.21	12912262.46	12912262.72	0.0088	0.0009
Earth	30640-06-22 01:41 G	12912262.32	12912262.57	12912262.83	0.0088	0.0012 *
Earth	30641-06-24 12:14 G	12912629.75	12912630.01	12912630.27	0.0088	0.0000
Moon	30641-06-24 14:24 G	12912629.83	12912630.10	12912630.37	0.0088	0.0002 *
Moon	30642-06-26 21:50 G	12912997.17	12912997.41	12912997.66	0.0088	0.0016
Earth	30642-06-26 22:48 G	12912997.20	12912997.45	12912997.71	0.0088	0.0013 *
Moon	30643-06-29 08:09 G	12913364.60	12913364.84	12913365.12	0.0088	0.0023
Earth	30643-06-29 09:07 G	12913364.65	12913364.88	12913365.14	0.0088	0.0026 *
Earth	30644-06-30 19:26 G	12913732.10	12913732.31	12913732.56	0.0088	0.0038
Moon	30644-06-30 21:07 G	12913732.17	12913732.38	12913732.61	0.0088	0.0040 *
Moon	30645-07-03 03:21 G	12914099.43	12914099.64	12914099.87	0.0088	0.0047
Earth	30645-07-03 06:14 G	12914099.56	12914099.76	12914099.98	0.0088	0.0050 *



Earth	30646-07-05 16:33 G	12914467.02	12914467.19	12914467.38	0.0088	0.0062
Moon	30646-07-05 20:09 G	12914467.18	12914467.34	12914467.52	0.0088	0.0065 *
Moon	30647-07-07 23:31 G	12914834.35	12914834.48	12914834.64	0.0088	0.0072
Earth	30647-07-08 03:21 G	12914834.50	12914834.64	12914834.77	0.0088	0.0074 *
Earth	30648-07-09 13:41 G	12915202.03	12915202.07	12915202.11	0.0088	0.0086
Venus	30673-04-22 05:31 G	12924254.64	12924254.73	12924254.87	0.0088	0.0076
Venus	30673-12-03 18:43 G	12924480.13	12924480.28	12924480.46	0.0088	0.0058
Venus	30674-07-17 07:55 G	12924705.64	12924705.83	12924706.04	0.0088	0.0040
Venus	30675-02-27 21:07 G	12924931.17	12924931.38	12924931.60	0.0088	0.0022
Venus	30675-10-11 10:05 G	12925156.70	12925156.92	12925157.14	0.0088	0.0004
Venus	30676-05-23 23:02 G	12925382.25	12925382.46	12925382.68	0.0088	0.0014
Venus	30677-01-04 11:45 G	12925607.80	12925607.99	12925608.21	0.0088	0.0033
Venus	30677-08-18 00:43 G	12925833.37	12925833.53	12925833.73	0.0089	0.0051
Venus	30678-03-31 14:09 G	12926058.95	12926059.09	12926059.23	0.0089	0.0068
Venus	30678-11-12 03:07 G	12926284.59	12926284.63	12926284.69	0.0089	0.0086
Mercury	30690-07-25 22:19 G	12930558.40	12930558.43	12930558.48	0.0089	0.0086
Mercury	30690-10-22 01:41 G	12930646.48	12930646.57	12930646.67	0.0089	0.0076
Mercury	30691-01-18 04:48 G	12930734.59	12930734.70	12930734.83	0.0089	0.0066
Mercury	30691-04-16 08:09 G	12930822.70	12930822.84	12930822.98	0.0089	0.0056
Mercury	30691-07-13 11:17 G	12930910.82	12930910.97	12930911.13	0.0089	0.0046
Mercury	30691-10-09 14:38 G	12930998.94	12930999.11	12930999.28	0.0089	0.0036
Mercury	30692-01-05 17:45 G	12931087.06	12931087.24	12931087.41	0.0089	0.0026
Mercury	30692-04-02 20:38 G	12931175.19	12931175.36	12931175.55	0.0089	0.0017
Mercury	30692-06-30 00:00 G	12931263.32	12931263.50	12931263.68	0.0089	0.0007
Mercury	30692-09-26 03:07 G	12931351.45	12931351.63	12931351.81	0.0089	0.0003
Mercury	30692-12-23 06:14 G	12931439.58	12931439.76	12931439.94	0.0089	0.0013
Mercury	30693-03-21 09:07 G	12931527.72	12931527.88	12931528.07	0.0089	0.0023
Mercury	30693-06-17 12:29 G	12931615.85	12931616.02	12931616.19	0.0089	0.0032
Mercury	30693-09-13 15:21 G	12931703.99	12931704.14	12931704.31	0.0089	0.0042
Mercury	30693-12-10 18:14 G	12931792.13	12931792.26	12931792.42	0.0089	0.0052

Mercury	30694-03-08 21:36 G	12931880.28	12931880.40	12931880.53	0.0089	0.0061
Mercury	30694-06-05 00:29 G	12931968.43	12931968.52	12931968.64	0.0089	0.0071
Mercury	30694-09-01 03:21 G	12932056.58	12932056.64	12932056.73	0.0089	0.0081
Mars	30713-11-25 04:33 G	12939080.58	12939080.69	12939080.82	0.0090	0.0082
Mars	30715-10-20 07:26 G	12939774.53	12939774.81	12939775.11	0.0090	0.0017
Earth	30716-12-09 06:00 G	12940190.72	12940190.75	12940190.81	0.0090	0.0088
Moon	30716-12-09 07:55 G	12940190.77	12940190.83	12940190.95	0.0090	0.0084 *
Mars	30717-09-13 06:43 G	12940468.55	12940468.78	12940469.04	0.0090	0.0049
Moon	30717-12-11 14:53 G	12940558.04	12940558.12	12940558.28	0.0090	0.0080
Earth	30717-12-11 18:57 G	12940558.16	12940558.29	12940558.44	0.0090	0.0075 *
Earth	30718-12-14 07:55 G	12940925.66	12940925.83	12940926.03	0.0090	0.0062
Moon	30718-12-14 11:17 G	12940925.79	12940925.97	12940926.18	0.0090	0.0058 *
Moon	30719-12-16 17:17 G	12941293.03	12941293.22	12941293.44	0.0090	0.0054
Earth	30719-12-16 21:07 G	12941293.17	12941293.38	12941293.61	0.0090	0.0049 *
Earth	30720-12-18 10:05 G	12941660.69	12941660.92	12941661.16	0.0090	0.0036
Moon	30720-12-18 13:12 G	12941660.81	12941661.05	12941661.30	0.0090	0.0031 *
Moon	30721-12-20 20:53 G	12942028.14	12942028.37	12942028.62	0.0090	0.0027
Earth	30721-12-20 23:02 G	12942028.22	12942028.46	12942028.72	0.0090	0.0022 *
Earth	30722-12-23 12:00 G	12942395.75	12942396.00	12942396.26	0.0090	0.0009
Moon	30722-12-23 13:41 G	12942395.80	12942396.07	12942396.34	0.0090	0.0004 *
Earth	30723-12-26 00:57 G	12942763.29	12942763.54	12942763.80	0.0090	0.0005
Moon	30723-12-26 01:12 G	12942763.30	12942763.55	12942763.80	0.0090	0.0002 *
Moon	30724-12-27 12:43 G	12943130.78	12943131.03	12943131.30	0.0090	0.0022
Earth	30724-12-27 13:55 G	12943130.83	12943131.08	12943131.34	0.0090	0.0018 *
Earth	30725-12-30 02:38 G	12943498.37	12943498.61	12943498.85	0.0090	0.0031
Moon	30725-12-30 04:19 G	12943498.46	12943498.68	12943498.94	0.0090	0.0027 *
Moon	30727-01-01 12:00 G	12943865.80	12943866.00	12943866.24	0.0090	0.0049
Earth	30727-01-01 15:07 G	12943865.93	12943866.13	12943866.38	0.0090	0.0045 *
Earth	30728-01-04 04:05 G	12944233.49	12944233.67	12944233.89	0.0090	0.0058
Moon	30728-01-04 07:41 G	12944233.62	12944233.82	12944234.03	0.0090	0.0053 *

Moon	30729-01-05 13:12 G	12944600.94	12944601.05	12944601.21	0.0090	0.0076
Earth	30729-01-05 17:02 G	12944601.07	12944601.21	12944601.39	0.0090	0.0071 *
Earth	30730-01-08 05:45 G	12944968.68	12944968.74	12944968.86	0.0090	0.0084
Moon	30730-01-08 09:07 G	12944968.78	12944968.88	12944969.02	0.0090	0.0079 *
Venus	30754-03-16 06:29 G	12953801.74	12953801.77	12953801.85	0.0089	0.0086
Venus	30754-10-27 19:26 G	12954027.19	12954027.31	12954027.47	0.0089	0.0068
Venus	30755-06-10 08:38 G	12954252.69	12954252.86	12954253.06	0.0089	0.0050
Venus	30756-01-21 21:50 G	12954478.22	12954478.41	12954478.63	0.0089	0.0032
Venus	30756-09-03 11:02 G	12954703.75	12954703.96	12954704.18	0.0089	0.0013
Venus	30757-04-17 00:00 G	12954929.29	12954929.50	12954929.73	0.0089	0.0005
Venus	30757-11-28 12:57 G	12955154.84	12955155.04	12955155.26	0.0089	0.0023
Venus	30758-07-12 01:55 G	12955380.40	12955380.58	12955380.79	0.0089	0.0041
Venus	30759-02-22 14:53 G	12955605.97	12955606.12	12955606.30	0.0089	0.0059
Venus	30759-10-06 03:36 G	12955831.57	12955831.65	12955831.78	0.0089	0.0077
Mercury	30771-02-09 03:50 G	12959975.65	12959975.66	12959975.70	0.0088	0.0087
Mercury	30771-05-08 05:17 G	12960063.68	12960063.72	12960063.79	0.0088	0.0080
Mercury	30771-08-04 06:43 G	12960151.72	12960151.78	12960151.87	0.0088	0.0072
Mercury	30771-10-31 08:24 G	12960239.76	12960239.85	12960239.95	0.0088	0.0065
Mercury	30772-01-27 09:50 G	12960327.81	12960327.91	12960328.02	0.0088	0.0058
Mercury	30772-04-24 11:17 G	12960415.86	12960415.97	12960416.08	0.0088	0.0051
Mercury	30772-07-21 12:43 G	12960503.91	12960504.03	12960504.15	0.0088	0.0043
Mercury	30772-10-17 14:09 G	12960591.97	12960592.09	12960592.22	0.0088	0.0036
Mercury	30773-01-13 15:36 G	12960680.02	12960680.15	12960680.28	0.0088	0.0029
Mercury	30773-04-11 17:02 G	12960768.08	12960768.21	12960768.35	0.0088	0.0022
Mercury	30773-07-08 18:29 G	12960856.14	12960856.27	12960856.41	0.0088	0.0015
Mercury	30773-10-04 20:09 G	12960944.20	12960944.34	12960944.47	0.0088	0.0008
Mercury	30773-12-31 21:36 G	12961032.26	12961032.40	12961032.54	0.0088	0.0001
Mercury	30774-03-29 23:02 G	12961120.32	12961120.46	12961120.60	0.0088	0.0007
Mercury	30774-06-26 00:29 G	12961208.38	12961208.52	12961208.66	0.0088	0.0015
Mercury	30774-09-22 01:55 G	12961296.45	12961296.58	12961296.72	0.0088	0.0022

Mercury	30774-12-19 03:21 G	12961384.51	12961384.64	12961384.78	0.0088	0.0030
Mercury	30775-03-17 05:02 G	12961472.58	12961472.71	12961472.83	0.0088	0.0037
Mercury	30775-06-13 06:14 G	12961560.65	12961560.76	12961560.89	0.0088	0.0044
Mercury	30775-09-09 07:55 G	12961648.72	12961648.83	12961648.95	0.0088	0.0051
Mercury	30775-12-06 09:36 G	12961736.79	12961736.90	12961737.00	0.0088	0.0059
Mercury	30776-03-03 10:48 G	12961824.87	12961824.95	12961825.05	0.0088	0.0066
Mercury	30776-05-30 12:29 G	12961912.95	12961913.02	12961913.10	0.0088	0.0074
Mercury	30776-08-26 13:41 G	12962001.03	12962001.07	12962001.14	0.0088	0.0082
Jupiter	30795-08-10 06:14 G	12968923.29	12968923.76	12968924.32	0.0088	0.0034
Mars	30797-07-05 08:38 G	12969618.54	12969618.86	12969619.19	0.0088	0.0020
Mars	30799-06-01 00:29 G	12970314.26	12970314.52	12970314.81	0.0088	0.0050
Moon	30799-06-12 06:00 G	12970325.66	12970325.75	12970325.90	0.0088	0.0078
Earth	30799-06-12 09:07 G	12970325.80	12970325.88	12970326.00	0.0088	0.0080 *
Earth	30800-06-13 19:26 G	12970693.17	12970693.31	12970693.50	0.0088	0.0068
Moon	30800-06-13 23:17 G	12970693.33	12970693.47	12970693.62	0.0088	0.0071 *
Moon	30801-06-16 02:38 G	12971060.42	12971060.61	12971060.83	0.0088	0.0053
Earth	30801-06-16 06:00 G	12971060.58	12971060.75	12971060.98	0.0088	0.0056 *
Earth	30802-06-18 16:48 G	12971427.99	12971428.20	12971428.43	0.0088	0.0043
Moon	30802-06-18 19:55 G	12971428.12	12971428.33	12971428.56	0.0088	0.0046 *
Moon	30803-06-21 00:57 G	12971795.30	12971795.54	12971795.78	0.0088	0.0027
Earth	30803-06-21 03:07 G	12971795.41	12971795.63	12971795.89	0.0088	0.0031 *
Earth	30804-06-22 13:41 G	12972162.83	12972163.07	12972163.33	0.0088	0.0018
Moon	30804-06-22 14:53 G	12972162.87	12972163.12	12972163.39	0.0088	0.0021 *
Moon	30805-06-25 00:14 G	12972530.26	12972530.51	12972530.76	0.0088	0.0003
Earth	30805-06-25 00:14 G	12972530.26	12972530.51	12972530.78	0.0088	0.0006 *
Moon	30806-06-27 10:05 G	12972897.65	12972897.92	12972898.18	0.0088	0.0004
Earth	30806-06-27 10:48 G	12972897.70	12972897.95	12972898.21	0.0088	0.0008 *
Earth	30807-06-29 21:07 G	12973265.14	12973265.38	12973265.64	0.0088	0.0020
Moon	30807-06-29 23:31 G	12973265.25	12973265.48	12973265.74	0.0088	0.0023 *
Moon	30808-07-01 04:33 G	12973632.46	12973632.69	12973632.95	0.0088	0.0030

Earth	30808-07-01 07:41 G	12973632.60	12973632.82	12973633.07	0.0088	0.0033	*
Earth	30809-07-03 18:14 G	12974000.05	12974000.26	12974000.49	0.0088	0.0045	
Moon	30809-07-03 21:36 G	12974000.21	12974000.40	12974000.63	0.0088	0.0049	*
Moon	30810-07-06 01:41 G	12974367.37	12974367.57	12974367.77	0.0088	0.0054	
Earth	30810-07-06 04:33 G	12974367.52	12974367.69	12974367.91	0.0088	0.0058	*
Earth	30811-07-08 14:53 G	12974734.99	12974735.12	12974735.30	0.0088	0.0070	
Moon	30811-07-08 18:14 G	12974735.13	12974735.26	12974735.41	0.0088	0.0073	*
Moon	30812-07-09 22:48 G	12975102.37	12975102.45	12975102.59	0.0088	0.0079	
Earth	30812-07-10 01:26 G	12975102.49	12975102.56	12975102.67	0.0088	0.0082	*
Venus	30837-07-25 17:45 G	12984249.17	12984249.24	12984249.35	0.0088	0.0081	
Venus	30838-03-08 06:57 G	12984474.64	12984474.79	12984474.95	0.0088	0.0063	
Venus	30838-10-19 19:41 G	12984700.15	12984700.32	12984700.53	0.0088	0.0045	
Venus	30839-06-02 08:53 G	12984925.67	12984925.87	12984926.09	0.0088	0.0027	
Venus	30840-01-13 22:05 G	12985151.20	12985151.42	12985151.64	0.0088	0.0009	
Venus	30840-08-26 11:02 G	12985376.74	12985376.96	12985377.18	0.0088	0.0008	
Venus	30841-04-08 23:45 G	12985602.29	12985602.49	12985602.71	0.0089	0.0027	
Venus	30841-11-20 12:29 G	12985827.85	12985828.02	12985828.23	0.0089	0.0045	
Venus	30842-07-04 02:09 G	12986053.43	12986053.59	12986053.75	0.0089	0.0062	
Venus	30843-02-14 14:53 G	12986279.04	12986279.12	12986279.22	0.0089	0.0080	
Mercury	30855-04-22 21:21 G	12990729.33	12990729.39	12990729.48	0.0089	0.0081	
Mercury	30855-07-20 00:43 G	12990817.43	12990817.53	12990817.65	0.0089	0.0071	
Mercury	30855-10-16 03:50 G	12990905.54	12990905.66	12990905.81	0.0089	0.0061	
Mercury	30856-01-12 07:12 G	12990993.66	12990993.80	12990993.96	0.0089	0.0051	
Mercury	30856-04-09 10:19 G	12991081.78	12991081.93	12991082.10	0.0089	0.0041	
Mercury	30856-07-06 13:41 G	12991169.90	12991170.07	12991170.25	0.0089	0.0031	
Mercury	30856-10-02 16:48 G	12991258.03	12991258.20	12991258.38	0.0089	0.0021	
Mercury	30856-12-29 20:09 G	12991346.16	12991346.34	12991346.52	0.0089	0.0011	
Mercury	30857-03-27 23:17 G	12991434.29	12991434.47	12991434.65	0.0089	0.0001	
Mercury	30857-06-24 02:24 G	12991522.42	12991522.60	12991522.78	0.0089	0.0009	
Mercury	30857-09-20 05:31 G	12991610.55	12991610.73	12991610.91	0.0089	0.0018	

Mercury	30857-12-17 08:24 G	12991698.69	12991698.85	12991699.03	0.0089	0.0028
Mercury	30858-03-15 11:31 G	12991786.82	12991786.98	12991787.15	0.0089	0.0038
Mercury	30858-06-11 14:24 G	12991874.96	12991875.10	12991875.27	0.0089	0.0048
Mercury	30858-09-07 17:45 G	12991963.11	12991963.24	12991963.38	0.0089	0.0057
Mercury	30858-12-04 20:38 G	12992051.25	12992051.36	12992051.49	0.0089	0.0067
Mercury	30859-03-03 00:00 G	12992139.41	12992139.50	12992139.59	0.0089	0.0076
Mercury	30859-05-30 02:38 G	12992227.58	12992227.61	12992227.67	0.0089	0.0086
Mars	30879-06-04 14:38 G	12999537.85	12999538.11	12999538.40	0.0090	0.0035
Mars	30881-04-28 16:33 G	13000231.93	13000232.19	13000232.49	0.0090	0.0031
Earth	30881-12-11 05:17 G	13000458.62	13000458.72	13000458.82	0.0090	0.0082
Moon	30881-12-11 08:24 G	13000458.79	13000458.85	13000458.96	0.0090	0.0085 *
Moon	30882-12-13 14:53 G	13000825.96	13000826.12	13000826.30	0.0090	0.0067
Earth	30882-12-13 18:00 G	13000826.10	13000826.25	13000826.42	0.0090	0.0069 *
Earth	30883-12-16 06:43 G	13001193.59	13001193.78	13001194.00	0.0090	0.0056
Moon	30883-12-16 09:36 G	13001193.71	13001193.90	13001194.12	0.0090	0.0057 *
Moon	30884-12-17 18:14 G	13001561.05	13001561.26	13001561.50	0.0090	0.0041
Earth	30884-12-17 19:41 G	13001561.11	13001561.32	13001561.56	0.0090	0.0043 *
Earth	30885-12-20 08:53 G	13001928.63	13001928.87	13001929.12	0.0090	0.0029
Moon	30885-12-20 08:53 G	13001928.64	13001928.87	13001929.14	0.0090	0.0031 *
Earth	30886-12-22 21:50 G	13002296.16	13002296.41	13002296.67	0.0090	0.0016
Moon	30886-12-22 22:19 G	13002296.19	13002296.43	13002296.68	0.0090	0.0015 *
Moon	30887-12-25 08:53 G	13002663.60	13002663.87	13002664.13	0.0090	0.0004
Earth	30887-12-25 10:48 G	13002663.70	13002663.95	13002664.21	0.0090	0.0003 *
Earth	30888-12-26 23:31 G	13003031.23	13003031.48	13003031.74	0.0090	0.0012
Moon	30888-12-27 02:09 G	13003031.35	13003031.59	13003031.85	0.0090	0.0013 *
Moon	30889-12-29 08:53 G	13003398.63	13003398.87	13003399.14	0.0090	0.0025
Earth	30889-12-29 12:29 G	13003398.78	13003399.02	13003399.27	0.0090	0.0025 *
Earth	30891-01-01 00:57 G	13003766.33	13003766.54	13003766.79	0.0090	0.0039
Moon	30891-01-01 04:48 G	13003766.48	13003766.70	13003766.95	0.0090	0.0040 *
Moon	30892-01-03 10:33 G	13004133.75	13004133.94	13004134.17	0.0090	0.0052

Earth	30892-01-03 13:55 G	13004133.89	13004134.08	13004134.31	0.0090	0.0052	*
Earth	30893-01-05 03:07 G	13004501.45	13004501.63	13004501.81	0.0090	0.0065	
Moon	30893-01-05 05:45 G	13004501.58	13004501.74	13004501.94	0.0090	0.0065	*
Moon	30894-01-07 14:09 G	13004868.97	13004869.09	13004869.22	0.0090	0.0078	
Earth	30894-01-07 15:21 G	13004869.04	13004869.14	13004869.29	0.0090	0.0079	*
Venus	30919-01-30 06:57 G	13014021.70	13014021.79	13014021.94	0.0089	0.0075	
Venus	30919-09-12 20:09 G	13014247.19	13014247.34	13014247.53	0.0089	0.0056	
Venus	30920-04-25 09:07 G	13014472.70	13014472.88	13014473.10	0.0089	0.0038	
Venus	30920-12-06 22:33 G	13014698.23	13014698.44	13014698.66	0.0089	0.0020	
Venus	30921-07-20 11:45 G	13014923.77	13014923.99	13014924.21	0.0089	0.0002	
Venus	30922-03-03 00:29 G	13015149.31	13015149.52	13015149.74	0.0089	0.0017	
Venus	30922-10-14 13:12 G	13015374.86	13015375.05	13015375.27	0.0089	0.0035	
Venus	30923-05-28 02:09 G	13015600.43	13015600.59	13015600.78	0.0089	0.0053	
Venus	30924-01-08 15:07 G	13015826.02	13015826.13	13015826.29	0.0089	0.0071	
Venus	30924-08-21 04:33 G	13016051.68	13016051.69	13016051.72	0.0089	0.0088	
Mercury	30935-11-07 03:50 G	13020146.62	13020146.66	13020146.72	0.0088	0.0083	
Mercury	30936-02-03 05:17 G	13020234.66	13020234.72	13020234.80	0.0088	0.0076	
Mercury	30936-05-01 06:43 G	13020322.70	13020322.78	13020322.87	0.0088	0.0068	
Mercury	30936-07-28 08:09 G	13020410.75	13020410.84	13020410.95	0.0088	0.0061	
Mercury	30936-10-24 09:36 G	13020498.80	13020498.90	13020499.02	0.0088	0.0054	
Mercury	30937-01-20 11:17 G	13020586.85	13020586.97	13020587.08	0.0088	0.0047	
Mercury	30937-04-18 12:29 G	13020674.91	13020675.02	13020675.15	0.0088	0.0040	
Mercury	30937-07-15 13:55 G	13020762.96	13020763.08	13020763.22	0.0088	0.0033	
Mercury	30937-10-11 15:21 G	13020851.02	13020851.14	13020851.28	0.0088	0.0026	
Mercury	30938-01-07 17:02 G	13020939.07	13020939.21	13020939.34	0.0088	0.0018	
Mercury	30938-04-05 18:29 G	13021027.13	13021027.27	13021027.41	0.0088	0.0011	
Mercury	30938-07-02 19:55 G	13021115.19	13021115.33	13021115.47	0.0088	0.0003	
Mercury	30938-09-28 21:21 G	13021203.25	13021203.39	13021203.53	0.0088	0.0004	
Mercury	30938-12-25 22:48 G	13021291.32	13021291.45	13021291.59	0.0088	0.0012	
Mercury	30939-03-24 00:29 G	13021379.38	13021379.52	13021379.65	0.0088	0.0019	

Mercury	30939-06-20 01:41 G	13021467.45	13021467.57	13021467.71	0.0088	0.0027
Mercury	30939-09-16 03:21 G	13021555.51	13021555.64	13021555.77	0.0088	0.0033
Mercury	30939-12-13 04:48 G	13021643.58	13021643.70	13021643.83	0.0088	0.0041
Mercury	30940-03-10 06:14 G	13021731.65	13021731.76	13021731.88	0.0088	0.0048
Mercury	30940-06-06 07:55 G	13021819.72	13021819.83	13021819.94	0.0088	0.0055
Mercury	30940-09-02 09:07 G	13021907.80	13021907.88	13021907.99	0.0088	0.0063
Mercury	30940-11-29 10:48 G	13021995.87	13021995.95	13021996.04	0.0088	0.0070
Mercury	30941-02-25 12:29 G	13022083.96	13022084.02	13022084.08	0.0088	0.0078
Mercury	30941-05-24 13:41 G	13022172.05	13022172.07	13022172.12	0.0088	0.0086
Mars	30961-02-17 11:02 G	13029380.68	13029380.96	13029381.27	0.0088	0.0039
Mars	30963-01-14 01:26 G	13030076.25	13030076.56	13030076.88	0.0088	0.0030
Earth	30963-06-12 20:38 G	13030226.34	13030226.36	13030226.40	0.0088	0.0087
Moon	30963-06-13 00:00 G	13030226.44	13030226.50	13030226.60	0.0088	0.0083
Moon	30964-06-14 03:21 G	13030593.56	13030593.64	13030593.79	0.0088	0.0079
Earth	30964-06-14 06:57 G	13030593.69	13030593.79	13030593.95	0.0088	0.0075 *
Earth	30965-06-16 18:00 G	13030961.08	13030961.25	13030961.44	0.0088	0.0062
Moon	30965-06-16 20:53 G	13030961.19	13030961.37	13030961.58	0.0088	0.0058 *
Moon	30966-06-19 02:24 G	13031328.43	13031328.60	13031328.83	0.0088	0.0054
Earth	30966-06-19 04:19 G	13031328.49	13031328.68	13031328.91	0.0088	0.0050 *
Earth	30967-06-21 14:53 G	13031695.90	13031696.12	13031696.36	0.0088	0.0037
Moon	30967-06-21 15:50 G	13031695.93	13031696.16	13031696.42	0.0088	0.0034 *
Earth	30968-06-23 01:26 G	13032063.32	13032063.56	13032063.82	0.0088	0.0024
Moon	30968-06-23 02:09 G	13032063.36	13032063.59	13032063.83	0.0088	0.0028 *
Moon	30969-06-25 10:05 G	13032430.66	13032430.92	13032431.19	0.0088	0.0008
Earth	30969-06-25 12:00 G	13032430.75	13032431.00	13032431.26	0.0088	0.0012 *
Earth	30970-06-27 22:33 G	13032798.18	13032798.44	13032798.70	0.0088	0.0001
Moon	30970-06-28 00:57 G	13032798.29	13032798.54	13032798.79	0.0088	0.0002 *
Moon	30971-06-30 05:31 G	13033165.48	13033165.73	13033165.98	0.0088	0.0018
Earth	30971-06-30 09:07 G	13033165.63	13033165.88	13033166.13	0.0088	0.0014 *
Earth	30972-07-01 19:12 G	13033533.07	13033533.30	13033533.56	0.0088	0.0027



Moon	30972-07-01 22:48 G	13033533.21	13033533.45	13033533.71	0.0088	0.0023	*
Moon	30973-07-04 02:24 G	13033900.39	13033900.60	13033900.84	0.0088	0.0043	
Earth	30973-07-04 05:45 G	13033900.53	13033900.74	13033900.99	0.0088	0.0040	*
Earth	30974-07-06 16:33 G	13034267.99	13034268.19	13034268.40	0.0088	0.0052	
Moon	30974-07-06 19:26 G	13034268.09	13034268.31	13034268.53	0.0088	0.0048	*
Moon	30975-07-09 01:41 G	13034635.42	13034635.57	13034635.73	0.0088	0.0068	
Earth	30975-07-09 02:38 G	13034635.46	13034635.61	13034635.81	0.0088	0.0065	*
Earth	30976-07-10 13:41 G	13035002.96	13035003.07	13035003.20	0.0088	0.0077	
Moon	30976-07-10 14:09 G	13035002.97	13035003.09	13035003.25	0.0088	0.0074	*

# 32ND MILLENNIUM CE

This is a list of transits visible from Neptune in the 32nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	31001-10-29 04:48 G		13044243.68	13044243.70	13044243.77	0.0088	0.0087	
Venus	31002-06-11 18:14 G		13044469.13	13044469.26	13044469.41	0.0088	0.0069	
Venus	31003-01-23 07:26 G		13044694.64	13044694.81	13044695.00	0.0088	0.0051	
Venus	31003-09-05 20:09 G		13044920.15	13044920.34	13044920.56	0.0088	0.0034	
Venus	31004-04-18 09:21 G		13045145.68	13045145.89	13045146.11	0.0088	0.0015	
Venus	31004-11-29 22:33 G		13045371.22	13045371.44	13045371.66	0.0088	0.0003	
Venus	31005-07-13 11:31 G		13045596.77	13045596.98	13045597.20	0.0088	0.0020	
Venus	31006-02-24 00:14 G		13045822.33	13045822.51	13045822.73	0.0088	0.0039	
Venus	31006-10-07 13:26 G		13046047.90	13046048.06	13046048.24	0.0089	0.0056	

Venus	31007-05-21 02:09 G	13046273.49	13046273.59	13046273.73	0.0089	0.0074
Mercury	31019-10-23 17:45 G	13050812.19	13050812.24	13050812.29	0.0089	0.0085
Mercury	31020-01-19 20:53 G	13050900.28	13050900.37	13050900.47	0.0089	0.0075
Mercury	31020-04-17 00:14 G	13050988.39	13050988.51	13050988.64	0.0089	0.0065
Mercury	31020-07-14 03:21 G	13051076.50	13051076.64	13051076.79	0.0089	0.0055
Mercury	31020-10-10 06:29 G	13051164.62	13051164.77	13051164.94	0.0089	0.0045
Mercury	31021-01-06 09:50 G	13051252.74	13051252.91	13051253.08	0.0089	0.0035
Mercury	31021-04-04 12:57 G	13051340.87	13051341.04	13051341.22	0.0089	0.0025
Mercury	31021-07-01 16:05 G	13051429.00	13051429.17	13051429.36	0.0089	0.0016
Mercury	31021-09-27 19:26 G	13051517.12	13051517.31	13051517.49	0.0089	0.0006
Mercury	31021-12-24 22:33 G	13051605.26	13051605.44	13051605.62	0.0089	0.0004
Mercury	31022-03-23 01:41 G	13051693.39	13051693.57	13051693.75	0.0089	0.0014
Mercury	31022-06-19 04:33 G	13051781.52	13051781.69	13051781.87	0.0089	0.0024
Mercury	31022-09-15 07:41 G	13051869.66	13051869.82	13051870.00	0.0089	0.0034
Mercury	31022-12-12 10:48 G	13051957.80	13051957.95	13051958.12	0.0089	0.0043
Mercury	31023-03-10 13:55 G	13052045.94	13052046.08	13052046.23	0.0089	0.0053
Mercury	31023-06-06 16:48 G	13052134.09	13052134.20	13052134.34	0.0089	0.0063
Mercury	31023-09-02 20:09 G	13052222.24	13052222.34	13052222.45	0.0089	0.0072
Mercury	31023-11-29 22:48 G	13052310.40	13052310.45	13052310.54	0.0089	0.0082
Mars	31043-01-19 20:24 G	13059301.12	13059301.35	13059301.61	0.0089	0.0053
Mars	31044-12-13 23:31 G	13059995.20	13059995.48	13059995.78	0.0090	0.0013
Moon	31045-12-12 12:00 G	13060358.95	13060359.00	13060359.08	0.0090	0.0086
Earth	31045-12-12 15:21 G	13060359.14	13060359.14	13060359.14	0.0090	0.0089
Mars	31046-11-08 01:12 G	13060689.43	13060689.55	13060689.73	0.0090	0.0077
Earth	31046-12-15 03:21 G	13060726.54	13060726.64	13060726.80	0.0090	0.0077
Moon	31046-12-15 05:17 G	13060726.63	13060726.72	13060726.87	0.0090	0.0080 *
Moon	31047-12-17 15:21 G	13061093.97	13061094.14	13061094.34	0.0090	0.0060
Earth	31047-12-17 16:48 G	13061094.02	13061094.20	13061094.39	0.0090	0.0063 *
Moon	31048-12-19 04:48 G	13061461.51	13061461.70	13061461.94	0.0090	0.0054
Earth	31048-12-19 05:02 G	13061461.52	13061461.71	13061461.95	0.0090	0.0050 *

Earth	31049-12-21 18:29 G	13061829.04	13061829.27	13061829.51	0.0090	0.0036
Moon	31049-12-21 19:55 G	13061829.11	13061829.33	13061829.58	0.0090	0.0033 *
Moon	31050-12-24 05:02 G	13062196.47	13062196.71	13062196.98	0.0090	0.0027
Earth	31050-12-24 07:26 G	13062196.57	13062196.81	13062197.07	0.0090	0.0022 *
Earth	31051-12-26 20:24 G	13062564.10	13062564.35	13062564.61	0.0090	0.0009
Moon	31051-12-26 23:45 G	13062564.24	13062564.49	13062564.75	0.0090	0.0004 *
Moon	31052-12-28 06:00 G	13062931.50	13062931.75	13062932.01	0.0090	0.0002
Earth	31052-12-28 09:36 G	13062931.64	13062931.90	13062932.16	0.0090	0.0005 *
Earth	31053-12-30 22:19 G	13063299.19	13063299.43	13063299.69	0.0090	0.0019
Moon	31053-12-31 01:41 G	13063299.34	13063299.57	13063299.84	0.0090	0.0024 *
Moon	31055-01-02 08:24 G	13063666.61	13063666.85	13063667.09	0.0090	0.0028
Earth	31055-01-02 11:17 G	13063666.74	13063666.97	13063667.22	0.0090	0.0033 *
Earth	31056-01-05 00:14 G	13064034.29	13064034.51	13064034.74	0.0090	0.0046
Moon	31056-01-05 01:55 G	13064034.38	13064034.58	13064034.82	0.0090	0.0051 *
Moon	31057-01-06 11:17 G	13064401.79	13064401.97	13064402.18	0.0090	0.0056
Earth	31057-01-06 12:43 G	13064401.86	13064402.03	13064402.24	0.0090	0.0060 *
Earth	31058-01-09 01:55 G	13064769.44	13064769.58	13064769.73	0.0090	0.0073
Moon	31058-01-09 01:26 G	13064769.45	13064769.56	13064769.71	0.0090	0.0078 *
Earth	31059-01-11 14:09 G	13065137.05	13065137.09	13065137.18	0.0090	0.0087
Moon	31059-01-11 15:36 G	13065137.08	13065137.15	13065137.27	0.0090	0.0083 *
Venus	31083-05-04 18:57 G	13074016.20	13074016.29	13074016.40	0.0089	0.0079
Venus	31083-12-16 07:41 G	13074241.69	13074241.82	13074242.00	0.0089	0.0062
Venus	31084-07-28 20:53 G	13074467.20	13074467.37	13074467.58	0.0089	0.0044
Venus	31085-03-11 09:50 G	13074692.71	13074692.91	13074693.13	0.0089	0.0026
Venus	31085-10-22 23:02 G	13074918.24	13074918.46	13074918.68	0.0089	0.0008
Venus	31086-06-05 12:00 G	13075143.78	13075144.00	13075144.22	0.0089	0.0010
Venus	31087-01-17 01:12 G	13075369.34	13075369.55	13075369.76	0.0089	0.0028
Venus	31087-08-30 13:55 G	13075594.90	13075595.08	13075595.28	0.0089	0.0046
Venus	31088-04-12 02:53 G	13075820.48	13075820.62	13075820.78	0.0089	0.0064
Venus	31088-11-23 15:36 G	13076046.09	13076046.15	13076046.25	0.0089	0.0082

Mercury	31100-05-09 02:24 G	13080229.57	13080229.60	13080229.63	0.0088	0.0086
Mercury	31100-08-05 03:50 G	13080317.60	13080317.66	13080317.72	0.0088	0.0079
Mercury	31100-11-01 05:17 G	13080405.64	13080405.72	13080405.80	0.0088	0.0072
Mercury	31101-01-28 06:29 G	13080493.69	13080493.77	13080493.87	0.0088	0.0065
Mercury	31101-04-26 07:55 G	13080581.74	13080581.83	13080581.94	0.0088	0.0058
Mercury	31101-07-23 09:21 G	13080669.79	13080669.89	13080670.01	0.0088	0.0051
Mercury	31101-10-19 10:48 G	13080757.84	13080757.95	13080758.08	0.0088	0.0043
Mercury	31102-01-15 12:29 G	13080845.89	13080846.02	13080846.14	0.0088	0.0036
Mercury	31102-04-13 13:55 G	13080933.95	13080934.08	13080934.21	0.0088	0.0029
Mercury	31102-07-10 15:21 G	13081022.01	13081022.14	13081022.27	0.0088	0.0021
Mercury	31102-10-06 16:48 G	13081110.07	13081110.20	13081110.34	0.0088	0.0014
Mercury	31103-01-02 18:14 G	13081198.12	13081198.26	13081198.40	0.0088	0.0007
Mercury	31103-03-31 19:41 G	13081286.18	13081286.32	13081286.46	0.0088	0.0002
Mercury	31103-06-27 21:07 G	13081374.25	13081374.38	13081374.52	0.0088	0.0008
Mercury	31103-09-23 22:33 G	13081462.31	13081462.44	13081462.58	0.0088	0.0016
Mercury	31103-12-21 00:14 G	13081550.37	13081550.51	13081550.64	0.0088	0.0022
Mercury	31104-03-18 01:41 G	13081638.44	13081638.57	13081638.70	0.0088	0.0030
Mercury	31104-06-14 03:07 G	13081726.51	13081726.63	13081726.76	0.0088	0.0037
Mercury	31104-09-10 04:33 G	13081814.58	13081814.69	13081814.82	0.0088	0.0045
Mercury	31104-12-07 06:00 G	13081902.65	13081902.75	13081902.87	0.0088	0.0052
Mercury	31105-03-05 07:26 G	13081990.72	13081990.81	13081990.92	0.0088	0.0060
Mercury	31105-06-01 09:07 G	13082078.79	13082078.88	13082078.97	0.0088	0.0067
Mercury	31105-08-28 10:19 G	13082166.87	13082166.93	13082167.02	0.0088	0.0075
Mercury	31105-11-24 12:00 G	13082254.96	13082255.00	13082255.06	0.0088	0.0082
Mars	31124-10-03 14:09 G	13089142.87	13089143.09	13089143.36	0.0088	0.0058
Mars	31126-08-30 03:21 G	13089838.32	13089838.64	13089838.97	0.0088	0.0011
Earth	31128-06-15 18:14 G	13090494.20	13090494.26	13090494.38	0.0088	0.0082
Moon	31128-06-15 20:53 G	13090494.29	13090494.37	13090494.51	0.0088	0.0080 *
Mars	31128-07-25 18:00 G	13090534.15	13090534.25	13090534.41	0.0088	0.0081
Moon	31129-06-18 03:36 G	13090861.53	13090861.65	13090861.82	0.0088	0.0071

Earth	31129-06-18 05:17 G	13090861.58	13090861.72	13090861.90	0.0088	0.0069	*
Moon	31130-06-20 15:50 G	13091228.96	13091229.16	13091229.38	0.0088	0.0055	
Earth	31130-06-20 16:05 G	13091228.98	13091229.17	13091229.37	0.0088	0.0056	*
Earth	31131-06-23 02:09 G	13091596.39	13091596.59	13091596.84	0.0088	0.0044	
Moon	31131-06-23 03:36 G	13091596.44	13091596.65	13091596.86	0.0088	0.0045	*
Moon	31132-06-24 10:48 G	13091963.71	13091963.95	13091964.21	0.0088	0.0029	
Earth	31132-06-24 12:57 G	13091963.81	13091964.04	13091964.30	0.0088	0.0031	*
Earth	31133-06-26 23:31 G	13092331.23	13092331.48	13092331.74	0.0088	0.0018	
Moon	31133-06-27 02:38 G	13092331.37	13092331.61	13092331.87	0.0088	0.0019	*
Moon	31134-06-29 06:43 G	13092698.52	13092698.78	13092699.04	0.0088	0.0003	
Earth	31134-06-29 10:05 G	13092698.67	13092698.92	13092699.18	0.0088	0.0005	*
Earth	31135-07-01 20:24 G	13093066.10	13093066.35	13093066.61	0.0088	0.0008	
Moon	31135-07-02 00:14 G	13093066.25	13093066.51	13093066.77	0.0088	0.0006	*
Moon	31136-07-03 03:50 G	13093433.43	13093433.66	13093433.92	0.0088	0.0023	
Earth	31136-07-03 06:57 G	13093433.54	13093433.79	13093434.04	0.0088	0.0021	*
Earth	31137-07-05 17:17 G	13093800.99	13093801.22	13093801.46	0.0088	0.0034	
Moon	31137-07-05 19:55 G	13093801.08	13093801.33	13093801.58	0.0088	0.0031	*
Moon	31138-07-08 02:24 G	13094168.41	13094168.60	13094168.82	0.0088	0.0049	
Earth	31138-07-08 03:21 G	13094168.44	13094168.64	13094168.88	0.0088	0.0047	*
Moon	31139-07-10 13:26 G	13094535.88	13094536.06	13094536.28	0.0088	0.0058	
Earth	31139-07-10 13:55 G	13094535.91	13094536.08	13094536.29	0.0088	0.0060	*
Earth	31140-07-12 00:43 G	13094903.40	13094903.53	13094903.69	0.0088	0.0072	
Moon	31140-07-12 01:41 G	13094903.46	13094903.57	13094903.72	0.0088	0.0075	*
Moon	31141-07-14 08:53 G	13095270.78	13095270.87	13095270.96	0.0088	0.0082	
Earth	31141-07-14 11:02 G	13095270.92	13095270.96	13095271.05	0.0088	0.0085	*
Venus	31166-09-14 05:17 G	13104463.62	13104463.72	13104463.86	0.0088	0.0075	
Venus	31167-04-27 18:43 G	13104689.11	13104689.28	13104689.45	0.0088	0.0057	
Venus	31167-12-09 07:26 G	13104914.63	13104914.81	13104915.02	0.0088	0.0039	
Venus	31168-07-21 20:38 G	13105140.16	13105140.36	13105140.59	0.0088	0.0022	
Venus	31169-03-04 09:50 G	13105365.69	13105365.91	13105366.14	0.0088	0.0004	

Venus	31169-10-15 22:48 G	13105591.24	13105591.45	13105591.67	0.0088	0.0014
Venus	31170-05-29 12:00 G	13105816.79	13105817.00	13105817.21	0.0088	0.0032
Venus	31171-01-10 00:43 G	13106042.36	13106042.53	13106042.72	0.0089	0.0050
Venus	31171-08-23 13:41 G	13106267.94	13106268.07	13106268.23	0.0089	0.0068
Venus	31172-04-05 02:24 G	13106493.57	13106493.60	13106493.68	0.0089	0.0086
Mercury	31184-07-20 16:48 G	13110983.13	13110983.20	13110983.28	0.0089	0.0080
Mercury	31184-10-16 19:55 G	13111071.23	13111071.33	13111071.45	0.0089	0.0070
Mercury	31185-01-12 23:17 G	13111159.34	13111159.47	13111159.61	0.0089	0.0060
Mercury	31185-04-11 02:24 G	13111247.45	13111247.60	13111247.76	0.0089	0.0050
Mercury	31185-07-08 05:45 G	13111335.58	13111335.74	13111335.90	0.0089	0.0040
Mercury	31185-10-04 08:53 G	13111423.70	13111423.87	13111424.05	0.0089	0.0030
Mercury	31185-12-31 12:14 G	13111511.83	13111512.01	13111512.19	0.0089	0.0020
Mercury	31186-03-29 15:21 G	13111599.95	13111600.14	13111600.32	0.0089	0.0010
Mercury	31186-06-25 18:29 G	13111688.09	13111688.27	13111688.45	0.0089	0.0001
Mercury	31186-09-21 21:36 G	13111776.22	13111776.40	13111776.58	0.0089	0.0009
Mercury	31186-12-19 00:43 G	13111864.35	13111864.53	13111864.71	0.0089	0.0019
Mercury	31187-03-17 03:36 G	13111952.49	13111952.65	13111952.83	0.0089	0.0029
Mercury	31187-06-13 06:43 G	13112040.63	13112040.78	13112040.96	0.0089	0.0039
Mercury	31187-09-09 10:05 G	13112128.77	13112128.92	13112129.07	0.0089	0.0048
Mercury	31187-12-06 12:57 G	13112216.91	13112217.04	13112217.19	0.0089	0.0058
Mercury	31188-03-03 15:50 G	13112305.06	13112305.16	13112305.29	0.0089	0.0068
Mercury	31188-05-30 19:12 G	13112393.22	13112393.30	13112393.39	0.0089	0.0077
Mercury	31188-08-26 22:05 G	13112481.40	13112481.42	13112481.47	0.0089	0.0087
Mars	31206-09-05 01:55 G	13119064.41	13119064.58	13119064.77	0.0089	0.0072
Mars	31208-07-30 06:14 G	13119758.47	13119758.76	13119759.06	0.0090	0.0006
Mars	31210-06-24 07:41 G	13120452.62	13120452.82	13120453.07	0.0090	0.0059
Earth	31210-12-15 13:12 G	13120626.98	13120627.05	13120627.16	0.0090	0.0084
Moon	31210-12-15 13:12 G	13120627.02	13120627.05	13120627.12	0.0090	0.0088 *
Moon	31211-12-18 00:29 G	13120994.38	13120994.52	13120994.73	0.0090	0.0068
Earth	31211-12-18 01:41 G	13120994.43	13120994.57	13120994.75	0.0090	0.0071 *

Earth	31212-12-19 14:38 G	13121361.92	13121362.11	13121362.32	0.0090	0.0057
Moon	31212-12-19 16:33 G	13121362.02	13121362.19	13121362.39	0.0090	0.0060 *
Moon	31213-12-22 00:14 G	13121729.29	13121729.51	13121729.76	0.0090	0.0040
Earth	31213-12-22 03:21 G	13121729.43	13121729.64	13121729.89	0.0090	0.0044 *
Earth	31214-12-24 16:19 G	13122096.95	13122097.18	13122097.43	0.0090	0.0029
Moon	31214-12-24 19:41 G	13122097.09	13122097.32	13122097.57	0.0090	0.0032 *
Moon	31215-12-27 01:41 G	13122464.32	13122464.57	13122464.83	0.0090	0.0013
Earth	31215-12-27 05:17 G	13122464.48	13122464.72	13122464.99	0.0090	0.0016 *
Earth	31216-12-28 18:29 G	13122832.01	13122832.27	13122832.53	0.0090	0.0002
Moon	31216-12-28 21:36 G	13122832.14	13122832.40	13122832.66	0.0090	0.0004 *
Moon	31217-12-31 04:48 G	13123199.46	13123199.70	13123199.96	0.0090	0.0014
Earth	31217-12-31 07:26 G	13123199.56	13123199.81	13123200.07	0.0090	0.0012 *
Earth	31219-01-02 20:09 G	13123567.11	13123567.34	13123567.60	0.0090	0.0027
Moon	31219-01-02 22:05 G	13123567.18	13123567.42	13123567.69	0.0090	0.0025 *
Earth	31220-01-05 09:07 G	13123934.66	13123934.88	13123935.12	0.0090	0.0040
Moon	31220-01-05 08:53 G	13123934.67	13123934.87	13123935.10	0.0090	0.0043 *
Moon	31221-01-06 21:36 G	13124302.19	13124302.40	13124302.62	0.0090	0.0052
Earth	31221-01-06 22:05 G	13124302.23	13124302.42	13124302.64	0.0090	0.0054 *
Earth	31222-01-09 10:33 G	13124669.80	13124669.94	13124670.14	0.0090	0.0068
Moon	31222-01-09 12:57 G	13124669.89	13124670.04	13124670.20	0.0090	0.0069 *
Moon	31223-01-11 20:24 G	13125037.25	13125037.35	13125037.50	0.0090	0.0079
Earth	31223-01-11 23:45 G	13125037.40	13125037.49	13125037.61	0.0090	0.0081 *
Venus	31247-08-07 06:29 G	13134010.71	13134010.77	13134010.83	0.0089	0.0085
Venus	31248-03-19 18:57 G	13134236.17	13134236.29	13134236.45	0.0089	0.0068
Venus	31248-10-31 07:55 G	13134461.67	13134461.83	13134462.03	0.0089	0.0050
Venus	31249-06-13 21:07 G	13134687.18	13134687.38	13134687.59	0.0089	0.0032
Venus	31250-01-25 10:19 G	13134912.71	13134912.93	13134913.15	0.0089	0.0014
Venus	31250-09-07 23:17 G	13135138.25	13135138.47	13135138.69	0.0089	0.0004
Venus	31251-04-21 12:00 G	13135363.79	13135364.00	13135364.22	0.0089	0.0022
Venus	31251-12-03 00:43 G	13135589.35	13135589.53	13135589.75	0.0089	0.0040

Venus	31252-07-15 14:09 G	13135814.92	13135815.09	13135815.26	0.0089	0.0057
Venus	31253-02-26 02:53 G	13136040.51	13136040.62	13136040.74	0.0089	0.0075
Mercury	31265-02-03 02:09 G	13140400.55	13140400.59	13140400.64	0.0088	0.0082
Mercury	31265-05-02 03:21 G	13140488.58	13140488.64	13140488.72	0.0088	0.0076
Mercury	31265-07-29 04:48 G	13140576.63	13140576.70	13140576.80	0.0088	0.0069
Mercury	31265-10-25 06:14 G	13140664.67	13140664.76	13140664.87	0.0088	0.0062
Mercury	31266-01-21 07:41 G	13140752.72	13140752.82	13140752.94	0.0088	0.0054
Mercury	31266-04-19 09:21 G	13140840.77	13140840.89	13140841.01	0.0088	0.0047
Mercury	31266-07-16 10:48 G	13140928.83	13140928.95	13140929.07	0.0088	0.0040
Mercury	31266-10-12 12:14 G	13141016.88	13141017.01	13141017.14	0.0088	0.0032
Mercury	31267-01-08 13:41 G	13141104.94	13141105.07	13141105.20	0.0088	0.0025
Mercury	31267-04-06 15:07 G	13141193.00	13141193.13	13141193.27	0.0088	0.0018
Mercury	31267-07-03 16:33 G	13141281.05	13141281.19	13141281.33	0.0088	0.0011
Mercury	31267-09-29 18:00 G	13141369.11	13141369.25	13141369.39	0.0088	0.0004
Mercury	31267-12-26 19:26 G	13141457.18	13141457.31	13141457.45	0.0088	0.0005
Mercury	31268-03-23 20:53 G	13141545.24	13141545.37	13141545.51	0.0088	0.0012
Mercury	31268-06-19 22:33 G	13141633.30	13141633.44	13141633.57	0.0088	0.0019
Mercury	31268-09-15 23:45 G	13141721.37	13141721.49	13141721.63	0.0088	0.0027
Mercury	31268-12-13 01:26 G	13141809.43	13141809.56	13141809.69	0.0088	0.0033
Mercury	31269-03-11 02:53 G	13141897.50	13141897.62	13141897.75	0.0088	0.0041
Mercury	31269-06-07 04:19 G	13141985.57	13141985.68	13141985.80	0.0088	0.0048
Mercury	31269-09-03 05:45 G	13142073.64	13142073.74	13142073.86	0.0088	0.0056
Mercury	31269-11-30 07:12 G	13142161.71	13142161.80	13142161.91	0.0088	0.0063
Mercury	31270-02-26 08:53 G	13142249.79	13142249.87	13142249.96	0.0088	0.0070
Mercury	31270-05-25 10:33 G	13142337.87	13142337.94	13142338.00	0.0088	0.0078
Mercury	31270-08-21 11:45 G	13142425.97	13142425.99	13142426.03	0.0088	0.0085
Mars	31288-05-17 18:57 G	13148905.17	13148905.29	13148905.49	0.0088	0.0077
Mars	31290-04-13 05:02 G	13149600.39	13149600.71	13149601.05	0.0088	0.0009
Mars	31292-03-08 17:17 G	13150296.01	13150296.22	13150296.49	0.0088	0.0061
Moon	31292-06-15 04:33 G	13150394.64	13150394.69	13150394.75	0.0088	0.0085



Earth	31293-06-17 15:50 G	13150762.04	13150762.16	13150762.29	0.0088	0.0076
Moon	31293-06-17 14:53 G	13150762.05	13150762.12	13150762.26	0.0088	0.0081 *
Earth	31294-06-20 02:09 G	13151129.44	13151129.59	13151129.79	0.0088	0.0064
Moon	31294-06-20 04:33 G	13151129.51	13151129.69	13151129.88	0.0088	0.0059 *
Moon	31295-06-22 10:19 G	13151496.75	13151496.93	13151497.16	0.0088	0.0055
Earth	31295-06-22 12:57 G	13151496.85	13151497.04	13151497.27	0.0088	0.0051 *
Earth	31296-06-23 23:45 G	13151864.27	13151864.49	13151864.74	0.0088	0.0038
Moon	31296-06-24 03:21 G	13151864.41	13151864.64	13151864.88	0.0088	0.0033 *
Moon	31297-06-26 06:57 G	13152231.56	13152231.79	13152232.04	0.0088	0.0029
Earth	31297-06-26 10:19 G	13152231.70	13152231.93	13152232.20	0.0088	0.0025 *
Earth	31298-06-28 20:53 G	13152599.12	13152599.37	13152599.64	0.0088	0.0012
Moon	31298-06-29 00:29 G	13152599.26	13152599.52	13152599.78	0.0088	0.0007 *
Moon	31299-07-01 04:48 G	13152966.45	13152966.70	13152966.96	0.0088	0.0003
Earth	31299-07-01 07:41 G	13152966.56	13152966.82	13152967.08	0.0088	0.0002 *
Earth	31300-07-03 18:00 G	13153334.00	13153334.25	13153334.51	0.0088	0.0015
Moon	31300-07-03 19:41 G	13153334.06	13153334.32	13153334.58	0.0088	0.0019 *
Moon	31301-07-06 04:05 G	13153701.43	13153701.67	13153701.91	0.0088	0.0024
Earth	31301-07-06 04:19 G	13153701.45	13153701.68	13153701.93	0.0088	0.0028 *
Moon	31302-07-08 14:09 G	13154068.87	13154069.09	13154069.32	0.0088	0.0045
Earth	31302-07-08 14:53 G	13154068.90	13154069.12	13154069.35	0.0088	0.0041 *
Earth	31303-07-11 01:12 G	13154436.36	13154436.55	13154436.76	0.0088	0.0054
Moon	31303-07-11 03:21 G	13154436.45	13154436.64	13154436.86	0.0088	0.0050 *
Moon	31304-07-12 08:38 G	13154803.73	13154803.86	13154804.03	0.0088	0.0071
Earth	31304-07-12 11:31 G	13154803.84	13154803.98	13154804.17	0.0088	0.0067 *
Earth	31305-07-14 21:50 G	13155171.33	13155171.41	13155171.54	0.0088	0.0080
Moon	31305-07-15 01:12 G	13155171.46	13155171.55	13155171.71	0.0088	0.0076 *
Venus	31330-12-17 16:19 G	13164458.10	13164458.18	13164458.28	0.0088	0.0081
Venus	31331-07-31 05:02 G	13164683.58	13164683.71	13164683.89	0.0088	0.0064
Venus	31332-03-12 18:29 G	13164909.09	13164909.27	13164909.47	0.0088	0.0045
Venus	31332-10-24 07:41 G	13165134.61	13165134.82	13165135.03	0.0088	0.0028

Venus	31333-06-06 20:38 G	13165360.15	13165360.36	13165360.59	0.0088	0.0011
Venus	31334-01-18 09:50 G	13165585.69	13165585.91	13165586.13	0.0088	0.0008
Venus	31334-08-31 22:48 G	13165811.25	13165811.45	13165811.67	0.0088	0.0026
Venus	31335-04-14 11:31 G	13166036.81	13166036.98	13166037.19	0.0088	0.0044
Venus	31335-11-26 00:57 G	13166262.38	13166262.54	13166262.70	0.0088	0.0061
Venus	31336-07-08 13:55 G	13166487.99	13166488.08	13166488.19	0.0089	0.0079
Mercury	31349-01-19 12:00 G	13171065.98	13171066.00	13171066.07	0.0089	0.0086
Mercury	31349-04-17 15:21 G	13171154.06	13171154.14	13171154.25	0.0089	0.0076
Mercury	31349-07-14 18:29 G	13171242.17	13171242.27	13171242.42	0.0089	0.0066
Mercury	31349-10-10 22:19 G	13171330.28	13171330.43	13171330.57	0.0089	0.0055
Mercury	31350-01-07 01:26 G	13171418.40	13171418.56	13171418.72	0.0089	0.0045
Mercury	31350-04-05 04:48 G	13171506.53	13171506.70	13171506.87	0.0089	0.0035
Mercury	31350-07-02 07:55 G	13171594.65	13171594.83	13171595.01	0.0089	0.0025
Mercury	31350-09-28 11:02 G	13171682.78	13171682.96	13171683.14	0.0089	0.0016
Mercury	31350-12-25 14:09 G	13171770.91	13171771.09	13171771.28	0.0089	0.0006
Mercury	31351-03-23 17:17 G	13171859.04	13171859.22	13171859.41	0.0089	0.0005
Mercury	31351-06-19 20:38 G	13171947.18	13171947.36	13171947.54	0.0089	0.0014
Mercury	31351-09-15 23:31 G	13172035.31	13172035.48	13172035.66	0.0089	0.0024
Mercury	31351-12-13 02:38 G	13172123.45	13172123.61	13172123.79	0.0089	0.0034
Mercury	31352-03-10 05:31 G	13172211.59	13172211.73	13172211.91	0.0089	0.0044
Mercury	31352-06-06 08:53 G	13172299.73	13172299.87	13172300.02	0.0089	0.0053
Mercury	31352-09-02 11:45 G	13172387.88	13172387.99	13172388.13	0.0089	0.0064
Mercury	31352-11-29 14:53 G	13172476.03	13172476.12	13172476.24	0.0089	0.0073
Mercury	31353-02-25 18:00 G	13172564.20	13172564.25	13172564.33	0.0089	0.0083
Jupiter	31371-02-04 09:36 G	13179116.45	13179116.90	13179117.41	0.0089	0.0039
Mars	31372-03-15 09:50 G	13179521.65	13179521.91	13179522.22	0.0089	0.0026
Mars	31374-02-07 14:09 G	13180215.85	13180216.09	13180216.38	0.0090	0.0041
Moon	31374-12-15 20:24 G	13180527.35	13180527.35	13180527.39	0.0090	0.0089
Earth	31375-12-18 11:17 G	13180894.86	13180894.97	13180895.11	0.0090	0.0078
Moon	31375-12-18 13:26 G	13180894.99	13180895.06	13180895.20	0.0090	0.0081 *

Moon	31376-12-19 21:07 G	13181262.19	13181262.38	13181262.57	0.0090	0.0061
Earth	31376-12-19 23:45 G	13181262.34	13181262.49	13181262.70	0.0090	0.0065 *
Earth	31377-12-22 12:29 G	13181629.83	13181630.02	13181630.26	0.0090	0.0051
Moon	31377-12-22 16:19 G	13181629.99	13181630.18	13181630.41	0.0090	0.0054 *
Moon	31378-12-24 22:19 G	13181997.21	13181997.43	13181997.68	0.0090	0.0034
Earth	31378-12-25 01:26 G	13181997.34	13181997.56	13181997.81	0.0090	0.0037 *
Earth	31379-12-27 14:09 G	13182364.85	13182365.09	13182365.35	0.0090	0.0023
Moon	31379-12-27 17:17 G	13182364.98	13182365.22	13182365.49	0.0090	0.0027 *
Moon	31380-12-29 01:26 G	13182732.32	13182732.56	13182732.82	0.0090	0.0006
Earth	31380-12-29 03:21 G	13182732.38	13182732.64	13182732.90	0.0090	0.0009 *
Earth	31381-12-31 16:19 G	13183099.92	13183100.18	13183100.44	0.0090	0.0006
Moon	31381-12-31 17:02 G	13183099.95	13183100.21	13183100.48	0.0090	0.0003 *
Earth	31383-01-03 04:48 G	13183467.46	13183467.70	13183467.97	0.0090	0.0020
Moon	31383-01-03 04:48 G	13183467.47	13183467.70	13183467.96	0.0090	0.0024 *
Moon	31384-01-05 15:50 G	13183834.93	13183835.16	13183835.43	0.0090	0.0031
Earth	31384-01-05 18:00 G	13183835.02	13183835.25	13183835.50	0.0090	0.0034 *
Earth	31385-01-07 06:43 G	13184202.58	13184202.78	13184203.02	0.0090	0.0048
Moon	31385-01-07 09:21 G	13184202.69	13184202.89	13184203.10	0.0090	0.0051 *
Moon	31386-01-09 16:19 G	13184570.01	13184570.18	13184570.41	0.0090	0.0058
Earth	31386-01-09 19:41 G	13184570.15	13184570.32	13184570.53	0.0090	0.0062 *
Earth	31387-01-12 08:09 G	13184937.73	13184937.84	13184938.01	0.0090	0.0076
Moon	31387-01-12 11:45 G	13184937.91	13184937.99	13184938.14	0.0090	0.0080 *
Moon	31388-01-14 18:14 G	13185305.19	13185305.26	13185305.35	0.0090	0.0085
Earth	31388-01-14 21:36 G	13185305.38	13185305.40	13185305.44	0.0090	0.0089
Venus	31412-06-23 06:00 G	13194230.65	13194230.75	13194230.89	0.0089	0.0074
Venus	31413-02-03 19:12 G	13194456.15	13194456.30	13194456.48	0.0089	0.0056
Venus	31413-09-17 08:24 G	13194681.66	13194681.85	13194682.05	0.0089	0.0038
Venus	31414-04-30 21:07 G	13194907.18	13194907.38	13194907.61	0.0089	0.0021
Venus	31414-12-12 10:33 G	13195132.72	13195132.94	13195133.16	0.0089	0.0003
Venus	31415-07-25 23:17 G	13195358.26	13195358.47	13195358.69	0.0089	0.0015

Venus	31416-03-07 12:00 G	13195583.81	13195584.00	13195584.22	0.0089	0.0033
Venus	31416-10-19 00:43 G	13195809.37	13195809.53	13195809.73	0.0089	0.0051
Venus	31417-06-01 13:55 G	13196034.95	13196035.08	13196035.22	0.0089	0.0068
Venus	31418-01-13 02:38 G	13196260.58	13196260.61	13196260.68	0.0089	0.0086
Mercury	31429-08-06 00:14 G	13200483.50	13200483.51	13200483.55	0.0088	0.0087
Mercury	31429-11-02 01:41 G	13200571.52	13200571.57	13200571.64	0.0088	0.0080
Mercury	31430-01-29 03:07 G	13200659.56	13200659.63	13200659.72	0.0088	0.0073
Mercury	31430-04-27 04:33 G	13200747.61	13200747.69	13200747.79	0.0088	0.0065
Mercury	31430-07-24 06:00 G	13200835.65	13200835.75	13200835.86	0.0088	0.0058
Mercury	31430-10-20 07:12 G	13200923.71	13200923.80	13200923.93	0.0088	0.0052
Mercury	31431-01-16 08:53 G	13201011.76	13201011.87	13201011.99	0.0088	0.0044
Mercury	31431-04-14 10:19 G	13201099.81	13201099.93	13201100.06	0.0088	0.0037
Mercury	31431-07-11 11:45 G	13201187.87	13201187.99	13201188.12	0.0088	0.0029
Mercury	31431-10-07 13:12 G	13201275.92	13201276.05	13201276.19	0.0088	0.0022
Mercury	31432-01-03 14:38 G	13201363.98	13201364.11	13201364.25	0.0088	0.0015
Mercury	31432-03-31 16:05 G	13201452.04	13201452.17	13201452.31	0.0088	0.0008
Mercury	31432-06-27 17:45 G	13201540.10	13201540.24	13201540.37	0.0088	0.0002
Mercury	31432-09-23 19:12 G	13201628.16	13201628.30	13201628.43	0.0088	0.0007
Mercury	31432-12-20 20:38 G	13201716.22	13201716.36	13201716.49	0.0088	0.0014
Mercury	31433-03-18 22:05 G	13201804.29	13201804.42	13201804.55	0.0088	0.0022
Mercury	31433-06-14 23:31 G	13201892.35	13201892.48	13201892.61	0.0088	0.0029
Mercury	31433-09-11 00:57 G	13201980.42	13201980.54	13201980.67	0.0088	0.0036
Mercury	31433-12-08 02:09 G	13202068.49	13202068.59	13202068.73	0.0088	0.0045
Mercury	31434-03-06 03:50 G	13202156.56	13202156.66	13202156.78	0.0088	0.0051
Mercury	31434-06-02 05:31 G	13202244.63	13202244.73	13202244.83	0.0088	0.0059
Mercury	31434-08-29 06:43 G	13202332.70	13202332.78	13202332.88	0.0088	0.0066
Mercury	31434-11-25 08:24 G	13202420.78	13202420.85	13202420.93	0.0088	0.0073
Mercury	31435-02-21 09:36 G	13202508.87	13202508.90	13202508.97	0.0088	0.0082
Mars	31453-11-27 08:24 G	13209362.56	13209362.85	13209363.18	0.0088	0.0028
Mars	31455-10-23 18:29 G	13210057.99	13210058.27	13210058.57	0.0088	0.0040

Earth	31457-06-19 01:26 G	13210662.51	13210662.56	13210662.66	0.0088	0.0084
Moon	31457-06-19 03:21 G	13210662.60	13210662.64	13210662.74	0.0088	0.0084 *
Moon	31458-06-21 09:07 G	13211029.73	13211029.88	13211030.04	0.0088	0.0070
Earth	31458-06-21 12:14 G	13211029.88	13211030.01	13211030.18	0.0088	0.0071 *
Earth	31459-06-23 22:48 G	13211397.28	13211397.45	13211397.66	0.0088	0.0058
Moon	31459-06-24 02:24 G	13211397.42	13211397.60	13211397.81	0.0088	0.0058 *
Moon	31460-06-25 06:14 G	13211764.55	13211764.76	13211764.99	0.0088	0.0045
Earth	31460-06-25 09:36 G	13211764.70	13211764.90	13211765.14	0.0088	0.0045 *
Earth	31461-06-27 20:09 G	13212132.11	13212132.34	13212132.60	0.0088	0.0032
Moon	31461-06-27 23:31 G	13212132.24	13212132.48	13212132.73	0.0088	0.0031 *
Moon	31462-06-30 05:02 G	13212499.47	13212499.71	13212499.96	0.0088	0.0019
Earth	31462-06-30 07:12 G	13212499.55	13212499.80	13212500.05	0.0088	0.0018 *
Earth	31463-07-02 17:45 G	13212866.98	13212867.24	13212867.50	0.0088	0.0005
Moon	31463-07-02 19:12 G	13212867.03	13212867.30	13212867.57	0.0088	0.0004 *
Earth	31464-07-04 04:05 G	13213234.42	13213234.67	13213234.93	0.0088	0.0009
Moon	31464-07-04 04:33 G	13213234.45	13213234.69	13213234.94	0.0088	0.0008 *
Moon	31465-07-06 12:43 G	13213601.79	13213602.03	13213602.30	0.0088	0.0022
Earth	31465-07-06 14:24 G	13213601.86	13213602.10	13213602.36	0.0088	0.0022 *
Earth	31466-07-09 00:57 G	13213969.31	13213969.54	13213969.78	0.0088	0.0035
Moon	31466-07-09 03:07 G	13213969.41	13213969.63	13213969.87	0.0088	0.0034 *
Moon	31467-07-11 07:55 G	13214336.62	13214336.83	13214337.05	0.0088	0.0048
Earth	31467-07-11 11:31 G	13214336.77	13214336.98	13214337.20	0.0088	0.0048 *
Earth	31468-07-12 21:50 G	13214704.23	13214704.41	13214704.60	0.0088	0.0061
Moon	31468-07-13 00:57 G	13214704.38	13214704.54	13214704.75	0.0088	0.0061 *
Moon	31469-07-15 04:19 G	13215071.58	13215071.68	13215071.83	0.0088	0.0076
Earth	31469-07-15 08:09 G	13215071.72	13215071.84	13215071.99	0.0088	0.0074 *
Earth	31470-07-17 18:43 G	13215439.26	13215439.28	13215439.32	0.0088	0.0087
Moon	31470-07-17 21:36 G	13215439.36	13215439.40	13215439.46	0.0088	0.0086
Venus	31495-03-22 02:24 G	13224452.60	13224452.60	13224452.66	0.0088	0.0088
Venus	31495-11-02 15:50 G	13224678.03	13224678.16	13224678.30	0.0088	0.0070

Venus	31496-06-15 04:48 G	13224903.54	13224903.70	13224903.89	0.0088	0.0052
Venus	31497-01-26 18:00 G	13225129.05	13225129.25	13225129.46	0.0088	0.0035
Venus	31497-09-09 07:12 G	13225354.58	13225354.80	13225355.02	0.0088	0.0017
Venus	31498-04-22 20:09 G	13225580.12	13225580.34	13225580.56	0.0088	0.0001
Venus	31498-12-04 09:07 G	13225805.67	13225805.88	13225806.10	0.0088	0.0019
Venus	31499-07-17 22:05 G	13226031.23	13226031.42	13226031.64	0.0088	0.0037
Venus	31500-02-28 11:17 G	13226256.80	13226256.97	13226257.15	0.0088	0.0054
Venus	31500-10-12 00:00 G	13226482.39	13226482.50	13226482.65	0.0089	0.0072
Mercury	31513-10-18 10:48 G	13231236.90	13231236.95	13231237.04	0.0089	0.0082
Mercury	31514-01-14 14:24 G	13231324.99	13231325.10	13231325.21	0.0089	0.0071
Mercury	31514-04-12 17:45 G	13231413.11	13231413.24	13231413.37	0.0089	0.0061
Mercury	31514-07-09 20:53 G	13231501.22	13231501.37	13231501.53	0.0089	0.0051
Mercury	31514-10-06 00:00 G	13231589.35	13231589.50	13231589.67	0.0089	0.0041
Mercury	31515-01-02 03:21 G	13231677.47	13231677.64	13231677.82	0.0089	0.0031
Mercury	31515-03-31 06:43 G	13231765.60	13231765.78	13231765.96	0.0089	0.0021
Mercury	31515-06-27 09:50 G	13231853.73	13231853.91	13231854.10	0.0089	0.0011
Mercury	31515-09-23 13:12 G	13231941.86	13231942.05	13231942.23	0.0089	0.0002
Mercury	31515-12-20 16:05 G	13232029.99	13232030.17	13232030.36	0.0089	0.0009
Mercury	31516-03-17 19:12 G	13232118.13	13232118.30	13232118.49	0.0089	0.0019
Mercury	31516-06-13 22:33 G	13232206.27	13232206.44	13232206.61	0.0089	0.0028
Mercury	31516-09-10 01:41 G	13232294.41	13232294.57	13232294.74	0.0089	0.0038
Mercury	31516-12-07 04:33 G	13232382.55	13232382.69	13232382.85	0.0089	0.0048
Mercury	31517-03-05 07:41 G	13232470.69	13232470.82	13232470.97	0.0089	0.0058
Mercury	31517-06-01 11:02 G	13232558.84	13232558.96	13232559.08	0.0089	0.0068
Mercury	31517-08-28 13:55 G	13232647.00	13232647.08	13232647.18	0.0089	0.0077
Mercury	31517-11-24 16:48 G	13232735.18	13232735.20	13232735.25	0.0089	0.0087
Mars	31535-10-31 11:02 G	13239284.71	13239284.96	13239285.23	0.0089	0.0045
Jupiter	31537-04-02 16:33 G	13239803.94	13239804.19	13239804.54	0.0089	0.0074
Mars	31537-09-24 17:45 G	13239978.95	13239979.24	13239979.53	0.0089	0.0021
Mars	31539-08-19 21:21 G	13240673.33	13240673.39	13240673.50	0.0090	0.0086

Earth	31539-12-19 19:26 G	13240795.26	13240795.31	13240795.40	0.0090	0.0086
Earth	31540-12-21 07:55 G	13241162.71	13241162.83	13241163.01	0.0090	0.0073
Moon	31540-12-21 11:31 G	13241162.84	13241162.98	13241163.17	0.0090	0.0069 *
Moon	31541-12-23 17:45 G	13241530.08	13241530.24	13241530.44	0.0090	0.0063
Earth	31541-12-23 20:53 G	13241530.20	13241530.37	13241530.59	0.0090	0.0059 *
Earth	31542-12-26 09:36 G	13241897.69	13241897.90	13241898.14	0.0090	0.0044
Moon	31542-12-26 11:31 G	13241897.77	13241897.98	13241898.24	0.0090	0.0041 *
Moon	31543-12-28 21:07 G	13242265.16	13242265.38	13242265.62	0.0090	0.0034
Earth	31543-12-28 22:48 G	13242265.21	13242265.45	13242265.70	0.0090	0.0030 *
Moon	31544-12-30 11:45 G	13242632.72	13242632.99	13242633.25	0.0090	0.0012
Earth	31544-12-30 11:45 G	13242632.73	13242632.99	13242633.24	0.0090	0.0016 *
Earth	31546-01-02 00:14 G	13243000.26	13243000.51	13243000.77	0.0090	0.0003
Moon	31546-01-02 01:41 G	13243000.32	13243000.57	13243000.82	0.0090	0.0005 *
Moon	31547-01-04 11:17 G	13243367.71	13243367.97	13243368.23	0.0090	0.0016
Earth	31547-01-04 13:12 G	13243367.80	13243368.05	13243368.31	0.0090	0.0013 *
Earth	31548-01-07 01:55 G	13243735.34	13243735.58	13243735.84	0.0090	0.0027
Moon	31548-01-07 05:02 G	13243735.48	13243735.71	13243735.97	0.0090	0.0023 *
Moon	31549-01-08 11:31 G	13244102.77	13244102.98	13244103.21	0.0090	0.0045
Earth	31549-01-08 15:07 G	13244102.91	13244103.13	13244103.36	0.0090	0.0041 *
Earth	31550-01-11 03:36 G	13244470.47	13244470.65	13244470.88	0.0090	0.0056
Moon	31550-01-11 07:12 G	13244470.62	13244470.80	13244471.03	0.0090	0.0053 *
Moon	31551-01-13 13:26 G	13244837.93	13244838.06	13244838.23	0.0090	0.0073
Earth	31551-01-13 17:17 G	13244838.05	13244838.22	13244838.38	0.0090	0.0069 *
Earth	31552-01-16 06:14 G	13245205.66	13245205.76	13245205.85	0.0090	0.0083
Moon	31552-01-16 07:41 G	13245205.74	13245205.82	13245205.97	0.0090	0.0081 *
Venus	31576-09-25 16:19 G	13254225.11	13254225.18	13254225.29	0.0089	0.0081
Venus	31577-05-09 05:31 G	13254450.59	13254450.73	13254450.90	0.0089	0.0063
Venus	31577-12-20 18:43 G	13254676.11	13254676.28	13254676.48	0.0089	0.0045
Venus	31578-08-03 07:55 G	13254901.63	13254901.83	13254902.04	0.0089	0.0027
Venus	31579-03-16 20:53 G	13255127.16	13255127.37	13255127.59	0.0089	0.0010

Venus	31579-10-28 09:50 G	13255352.69	13255352.91	13255353.13	0.0089	0.0008
Venus	31580-06-09 22:33 G	13255578.24	13255578.44	13255578.66	0.0089	0.0026
Venus	31581-01-21 11:31 G	13255803.80	13255803.98	13255804.19	0.0089	0.0044
Venus	31581-09-04 00:43 G	13256029.38	13256029.53	13256029.69	0.0089	0.0061
Venus	31582-04-17 13:12 G	13256254.97	13256255.05	13256255.17	0.0089	0.0079
Mercury	31594-05-04 00:00 G	13260654.47	13260654.50	13260654.55	0.0088	0.0084
Mercury	31594-07-31 01:26 G	13260742.50	13260742.56	13260742.63	0.0088	0.0076
Mercury	31594-10-27 02:38 G	13260830.54	13260830.61	13260830.71	0.0088	0.0070
Mercury	31595-01-23 04:05 G	13260918.59	13260918.67	13260918.78	0.0088	0.0063
Mercury	31595-04-21 05:31 G	13261006.64	13261006.73	13261006.85	0.0088	0.0056
Mercury	31595-07-18 07:12 G	13261094.69	13261094.80	13261094.92	0.0088	0.0048
Mercury	31595-10-14 08:38 G	13261182.74	13261182.86	13261182.98	0.0088	0.0041
Mercury	31596-01-10 10:05 G	13261270.79	13261270.92	13261271.05	0.0088	0.0034
Mercury	31596-04-07 11:31 G	13261358.85	13261358.98	13261359.11	0.0088	0.0026
Mercury	31596-07-04 12:57 G	13261446.91	13261447.04	13261447.17	0.0088	0.0019
Mercury	31596-09-30 14:24 G	13261534.96	13261535.10	13261535.24	0.0088	0.0012
Mercury	31596-12-27 15:50 G	13261623.02	13261623.16	13261623.30	0.0088	0.0005
Mercury	31597-03-25 17:17 G	13261711.08	13261711.22	13261711.36	0.0088	0.0003
Mercury	31597-06-21 18:43 G	13261799.14	13261799.28	13261799.42	0.0088	0.0010
Mercury	31597-09-17 20:09 G	13261887.21	13261887.34	13261887.48	0.0088	0.0017
Mercury	31597-12-14 21:36 G	13261975.27	13261975.40	13261975.53	0.0088	0.0025
Mercury	31598-03-12 23:02 G	13262063.33	13262063.46	13262063.59	0.0088	0.0032
Mercury	31598-06-09 00:29 G	13262151.40	13262151.52	13262151.65	0.0088	0.0039
Mercury	31598-09-05 02:09 G	13262239.47	13262239.59	13262239.70	0.0088	0.0047
Mercury	31598-12-02 03:21 G	13262327.54	13262327.64	13262327.76	0.0088	0.0054
Mercury	31599-02-28 04:48 G	13262415.61	13262415.70	13262415.81	0.0088	0.0062
Mercury	31599-05-27 06:14 G	13262503.69	13262503.76	13262503.86	0.0088	0.0069
Mercury	31599-08-23 07:55 G	13262591.77	13262591.83	13262591.90	0.0088	0.0076
Mercury	31599-11-19 09:36 G	13262679.86	13262679.90	13262679.94	0.0088	0.0084
Mars	31617-07-12 11:31 G	13269124.71	13269124.98	13269125.26	0.0088	0.0047



Mars	31619-06-07 20:09 G	13269820.04	13269820.34	13269820.68	0.0088	0.0021
Moon	31621-06-19 07:55 G	13270562.81	13270562.83	13270562.88	0.0088	0.0087
Earth	31622-06-21 22:05 G	13270930.31	13270930.42	13270930.54	0.0088	0.0078
Moon	31622-06-22 01:41 G	13270930.50	13270930.57	13270930.66	0.0088	0.0083 *
Moon	31623-06-24 05:31 G	13271297.56	13271297.73	13271297.92	0.0088	0.0061
Earth	31623-06-24 08:53 G	13271297.70	13271297.87	13271298.04	0.0088	0.0065 *
Earth	31624-06-25 18:57 G	13271665.10	13271665.29	13271665.51	0.0088	0.0052
Moon	31624-06-25 22:05 G	13271665.22	13271665.42	13271665.62	0.0088	0.0056 *
Moon	31625-06-28 04:19 G	13272032.45	13272032.68	13272032.91	0.0088	0.0034
Earth	31625-06-28 05:31 G	13272032.52	13272032.73	13272032.98	0.0088	0.0039 *
Earth	31626-06-30 16:33 G	13272399.95	13272400.19	13272400.44	0.0088	0.0025
Moon	31626-06-30 16:48 G	13272399.95	13272400.20	13272400.45	0.0088	0.0029 *
Earth	31627-07-03 03:07 G	13272767.38	13272767.63	13272767.89	0.0088	0.0012
Moon	31627-07-03 03:50 G	13272767.42	13272767.66	13272767.91	0.0088	0.0008 *
Moon	31628-07-04 11:45 G	13273134.72	13273134.99	13273135.25	0.0088	0.0003
Earth	31628-07-04 13:55 G	13273134.82	13273135.08	13273135.34	0.0088	0.0002 *
Earth	31629-07-07 00:14 G	13273502.26	13273502.51	13273502.77	0.0088	0.0015
Moon	31629-07-07 03:07 G	13273502.40	13273502.63	13273502.89	0.0088	0.0020 *
Moon	31630-07-09 07:26 G	13273869.57	13273869.81	13273870.07	0.0088	0.0024
Earth	31630-07-09 10:33 G	13273869.72	13273869.94	13273870.20	0.0088	0.0029 *
Earth	31631-07-11 21:07 G	13274237.16	13274237.38	13274237.62	0.0088	0.0042
Moon	31631-07-12 00:43 G	13274237.33	13274237.53	13274237.76	0.0088	0.0047 *
Moon	31632-07-13 04:33 G	13274604.50	13274604.69	13274604.91	0.0088	0.0051
Earth	31632-07-13 07:41 G	13274604.62	13274604.82	13274605.02	0.0088	0.0055 *
Earth	31633-07-15 17:31 G	13274972.10	13274972.23	13274972.42	0.0088	0.0069
Moon	31633-07-15 20:09 G	13274972.22	13274972.34	13274972.51	0.0088	0.0073 *
Moon	31634-07-18 03:21 G	13275339.53	13275339.64	13275339.76	0.0088	0.0077
Earth	31634-07-18 04:05 G	13275339.60	13275339.67	13275339.79	0.0088	0.0082 *
Venus	31660-02-05 01:55 G	13284672.49	13284672.58	13284672.71	0.0088	0.0077
Venus	31660-09-17 14:53 G	13284897.97	13284898.12	13284898.30	0.0088	0.0059

Venus	31661-05-01 04:05 G	13285123.48	13285123.67	13285123.87	0.0088	0.0042
Venus	31661-12-12 17:02 G	13285349.01	13285349.21	13285349.43	0.0088	0.0024
Venus	31662-07-26 06:14 G	13285574.55	13285574.76	13285574.99	0.0088	0.0007
Venus	31663-03-08 19:12 G	13285800.09	13285800.30	13285800.53	0.0088	0.0012
Venus	31663-10-20 08:24 G	13286025.64	13286025.85	13286026.06	0.0088	0.0029
Venus	31664-06-01 21:07 G	13286251.21	13286251.38	13286251.58	0.0088	0.0047
Venus	31665-01-13 10:05 G	13286476.79	13286476.92	13286477.09	0.0088	0.0065
Venus	31665-08-26 23:31 G	13286702.41	13286702.48	13286702.57	0.0089	0.0082
Mercury	31678-04-18 06:14 G	13291319.74	13291319.76	13291319.78	0.0089	0.0088
Mercury	31678-07-15 09:21 G	13291407.81	13291407.89	13291407.98	0.0089	0.0078
Mercury	31678-10-11 12:29 G	13291495.92	13291496.02	13291496.15	0.0089	0.0068
Mercury	31679-01-07 15:50 G	13291584.03	13291584.16	13291584.31	0.0089	0.0058
Mercury	31679-04-05 18:57 G	13291672.15	13291672.29	13291672.46	0.0089	0.0048
Mercury	31679-07-02 22:19 G	13291760.27	13291760.43	13291760.61	0.0089	0.0038
Mercury	31679-09-29 01:41 G	13291848.40	13291848.57	13291848.75	0.0089	0.0028
Mercury	31679-12-26 05:02 G	13291936.53	13291936.71	13291936.89	0.0089	0.0018
Mercury	31680-03-23 08:09 G	13292024.66	13292024.84	13292025.03	0.0089	0.0008
Mercury	31680-06-19 11:31 G	13292112.79	13292112.98	13292113.16	0.0089	0.0002
Mercury	31680-09-15 14:38 G	13292200.93	13292201.11	13292201.29	0.0089	0.0012
Mercury	31680-12-12 17:45 G	13292289.07	13292289.24	13292289.42	0.0089	0.0022
Mercury	31681-03-10 20:53 G	13292377.21	13292377.37	13292377.55	0.0089	0.0032
Mercury	31681-06-07 00:00 G	13292465.35	13292465.50	13292465.67	0.0089	0.0042
Mercury	31681-09-03 02:53 G	13292553.49	13292553.62	13292553.79	0.0089	0.0052
Mercury	31681-11-30 06:29 G	13292641.64	13292641.77	13292641.90	0.0089	0.0061
Mercury	31682-02-26 09:21 G	13292729.79	13292729.89	13292730.01	0.0089	0.0071
Mercury	31682-05-25 12:14 G	13292817.95	13292818.01	13292818.10	0.0089	0.0081
Mars	31699-06-15 10:48 G	13299047.76	13299047.95	13299048.18	0.0089	0.0065
Mars	31701-05-10 18:43 G	13299741.98	13299742.28	13299742.58	0.0089	0.0002
Mars	31703-04-04 23:17 G	13300436.29	13300436.47	13300436.69	0.0089	0.0067
Moon	31704-12-21 13:26 G	13301062.98	13301063.06	13301063.18	0.0090	0.0082

Earth	31704-12-21 15:50 G	13301063.07	13301063.16	13301063.30	0.0090	0.0081	*
Earth	31705-12-24 04:19 G	13301430.54	13301430.68	13301430.88	0.0090	0.0067	
Moon	31705-12-24 06:29 G	13301430.61	13301430.77	13301430.98	0.0090	0.0065	*
Earth	31706-12-26 17:45 G	13301798.04	13301798.24	13301798.45	0.0090	0.0052	
Moon	31706-12-26 17:02 G	13301798.04	13301798.21	13301798.44	0.0090	0.0054	*
Moon	31707-12-29 05:31 G	13302165.51	13302165.73	13302166.00	0.0090	0.0037	
Earth	31707-12-29 06:29 G	13302165.54	13302165.77	13302166.01	0.0090	0.0038	*
Earth	31708-12-30 18:57 G	13302533.06	13302533.29	13302533.55	0.0090	0.0024	
Moon	31708-12-30 20:53 G	13302533.14	13302533.37	13302533.62	0.0090	0.0026	*
Moon	31710-01-02 05:02 G	13302900.45	13302900.71	13302900.97	0.0090	0.0008	
Earth	31710-01-02 07:55 G	13302900.58	13302900.83	13302901.09	0.0090	0.0009	*
Earth	31711-01-04 20:38 G	13303268.11	13303268.36	13303268.62	0.0090	0.0005	
Moon	31711-01-04 23:45 G	13303268.24	13303268.49	13303268.75	0.0090	0.0004	*
Moon	31712-01-07 05:31 G	13303635.49	13303635.73	13303635.99	0.0090	0.0023	
Earth	31712-01-07 09:36 G	13303635.65	13303635.90	13303636.15	0.0090	0.0020	*
Earth	31713-01-08 21:50 G	13304003.19	13304003.41	13304003.67	0.0090	0.0035	
Moon	31713-01-09 01:26 G	13304003.33	13304003.56	13304003.81	0.0090	0.0032	*
Moon	31714-01-11 07:55 G	13304370.64	13304370.83	13304371.06	0.0090	0.0052	
Earth	31714-01-11 10:48 G	13304370.75	13304370.95	13304371.18	0.0090	0.0049	*
Earth	31715-01-13 23:45 G	13304738.32	13304738.49	13304738.69	0.0090	0.0063	
Moon	31715-01-14 01:41 G	13304738.40	13304738.57	13304738.79	0.0090	0.0060	*
Moon	31716-01-16 12:14 G	13305105.92	13305106.01	13305106.15	0.0090	0.0080	
Earth	31716-01-16 12:43 G	13305105.92	13305106.03	13305106.18	0.0090	0.0077	*
Moon	31717-01-18 01:26 G	13305473.53	13305473.56	13305473.63	0.0089	0.0088	
Venus	31740-12-29 02:38 G	13314219.60	13314219.61	13314219.67	0.0089	0.0088	
Venus	31741-08-11 15:50 G	13314445.04	13314445.16	13314445.31	0.0089	0.0070	
Venus	31742-03-25 05:02 G	13314670.54	13314670.71	13314670.89	0.0089	0.0052	
Venus	31742-11-05 17:45 G	13314896.05	13314896.24	13314896.46	0.0089	0.0035	
Venus	31743-06-19 06:57 G	13315121.58	13315121.79	13315122.01	0.0089	0.0017	
Venus	31744-01-30 20:09 G	13315347.12	13315347.34	13315347.56	0.0089	0.0001	

Venus	31744-09-12 08:53 G	13315572.67	13315572.87	13315573.10	0.0089	0.0019
Venus	31745-04-25 22:05 G	13315798.22	13315798.42	13315798.62	0.0089	0.0036
Venus	31745-12-07 10:48 G	13316023.79	13316023.95	13316024.13	0.0089	0.0054
Venus	31746-07-20 23:31 G	13316249.37	13316249.48	13316249.63	0.0089	0.0072
Mercury	31758-11-02 22:05 G	13320737.42	13320737.42	13320737.44	0.0088	0.0088
Mercury	31759-01-29 23:17 G	13320825.44	13320825.47	13320825.54	0.0088	0.0082
Mercury	31759-04-28 01:12 G	13320913.47	13320913.55	13320913.62	0.0088	0.0074
Mercury	31759-07-25 02:24 G	13321001.52	13321001.60	13321001.69	0.0088	0.0067
Mercury	31759-10-21 03:50 G	13321089.56	13321089.66	13321089.76	0.0088	0.0060
Mercury	31760-01-17 05:17 G	13321177.61	13321177.72	13321177.83	0.0088	0.0052
Mercury	31760-04-14 06:29 G	13321265.66	13321265.77	13321265.90	0.0088	0.0046
Mercury	31760-07-11 07:55 G	13321353.72	13321353.83	13321353.96	0.0088	0.0039
Mercury	31760-10-07 09:21 G	13321441.77	13321441.89	13321442.03	0.0088	0.0032
Mercury	31761-01-03 11:02 G	13321529.83	13321529.96	13321530.09	0.0088	0.0024
Mercury	31761-04-01 12:29 G	13321617.88	13321618.02	13321618.15	0.0088	0.0017
Mercury	31761-06-28 13:55 G	13321705.94	13321706.08	13321706.21	0.0088	0.0009
Mercury	31761-09-24 15:21 G	13321794.00	13321794.14	13321794.28	0.0088	0.0002
Mercury	31761-12-21 16:48 G	13321882.06	13321882.20	13321882.34	0.0088	0.0005
Mercury	31762-03-19 18:14 G	13321970.12	13321970.26	13321970.40	0.0088	0.0013
Mercury	31762-06-15 19:41 G	13322058.18	13322058.32	13322058.45	0.0088	0.0020
Mercury	31762-09-11 20:53 G	13322146.25	13322146.37	13322146.51	0.0088	0.0028
Mercury	31762-12-08 22:33 G	13322234.31	13322234.44	13322234.57	0.0088	0.0034
Mercury	31763-03-06 23:45 G	13322322.38	13322322.49	13322322.62	0.0088	0.0042
Mercury	31763-06-03 01:12 G	13322410.45	13322410.55	13322410.68	0.0088	0.0050
Mercury	31763-08-30 02:53 G	13322498.52	13322498.62	13322498.73	0.0088	0.0057
Mercury	31763-11-26 04:05 G	13322586.59	13322586.67	13322586.78	0.0088	0.0065
Mercury	31764-02-22 05:45 G	13322674.67	13322674.74	13322674.83	0.0088	0.0071
Mercury	31764-05-20 07:26 G	13322762.75	13322762.81	13322762.87	0.0088	0.0079
Mercury	31764-08-16 08:38 G	13322850.85	13322850.86	13322850.90	0.0088	0.0086
Mars	31781-02-24 15:21 G	13328886.95	13328887.14	13328887.37	0.0088	0.0067

Mars	31783-01-20 21:21 G	13329582.06	13329582.39	13329582.72	0.0088	0.0000
Mars	31784-12-16 05:31 G	13330277.56	13330277.73	13330277.97	0.0088	0.0069
Earth	31786-06-22 06:00 G	13330830.74	13330830.75	13330830.82	0.0088	0.0087
Earth	31787-06-24 17:02 G	13331198.08	13331198.21	13331198.36	0.0088	0.0073
Moon	31787-06-24 18:43 G	13331198.14	13331198.28	13331198.45	0.0088	0.0071 *
Moon	31788-06-26 02:38 G	13331565.44	13331565.61	13331565.80	0.0088	0.0061
Earth	31788-06-26 03:21 G	13331565.47	13331565.64	13331565.85	0.0088	0.0060 *
Moon	31789-06-28 13:55 G	13331932.86	13331933.08	13331933.32	0.0088	0.0045
Earth	31789-06-28 13:55 G	13331932.88	13331933.08	13331933.32	0.0088	0.0047 *
Earth	31790-07-01 00:43 G	13332300.30	13332300.53	13332300.78	0.0088	0.0033
Moon	31790-07-01 02:24 G	13332300.39	13332300.60	13332300.85	0.0088	0.0035 *
Moon	31791-07-03 08:53 G	13332667.62	13332667.87	13332668.14	0.0088	0.0018
Earth	31791-07-03 11:17 G	13332667.73	13332667.97	13332668.23	0.0088	0.0020 *
Earth	31792-07-04 22:05 G	13333035.16	13333035.42	13333035.68	0.0088	0.0006
Moon	31792-07-05 01:26 G	13333035.31	13333035.56	13333035.81	0.0088	0.0007 *
Moon	31793-07-07 05:02 G	13333402.46	13333402.71	13333402.97	0.0088	0.0010
Earth	31793-07-07 08:53 G	13333402.61	13333402.87	13333403.13	0.0088	0.0008 *
Earth	31794-07-09 19:12 G	13333770.06	13333770.30	13333770.56	0.0088	0.0022
Moon	31794-07-09 22:48 G	13333770.20	13333770.45	13333770.70	0.0088	0.0021 *
Moon	31795-07-12 02:53 G	13334137.40	13334137.62	13334137.86	0.0088	0.0036
Earth	31795-07-12 05:45 G	13334137.51	13334137.74	13334137.98	0.0088	0.0035 *
Earth	31796-07-13 16:05 G	13334504.97	13334505.17	13334505.40	0.0088	0.0049
Moon	31796-07-13 17:17 G	13334505.02	13334505.22	13334505.47	0.0088	0.0048 *
Moon	31797-07-16 01:55 G	13334872.42	13334872.58	13334872.77	0.0088	0.0063
Earth	31797-07-16 02:38 G	13334872.44	13334872.61	13334872.80	0.0088	0.0062 *
Moon	31798-07-18 12:00 G	13335239.89	13335240.00	13335240.17	0.0088	0.0075
Earth	31798-07-18 12:43 G	13335239.93	13335240.03	13335240.19	0.0088	0.0076 *
Venus	31824-05-10 11:31 G	13344666.92	13344666.98	13344667.06	0.0088	0.0084
Venus	31824-12-22 00:14 G	13344892.38	13344892.51	13344892.67	0.0088	0.0067
Venus	31825-08-04 13:12 G	13345117.89	13345118.05	13345118.26	0.0088	0.0050

Venus	31826-03-18 02:38 G	13345343.41	13345343.61	13345343.82	0.0088	0.0032
Venus	31826-10-29 15:21 G	13345568.93	13345569.14	13345569.37	0.0088	0.0015
Venus	31827-06-12 04:48 G	13345794.48	13345794.70	13345794.92	0.0088	0.0004
Venus	31828-01-23 17:31 G	13346020.03	13346020.23	13346020.46	0.0088	0.0021
Venus	31828-09-05 06:43 G	13346245.59	13346245.78	13346245.98	0.0088	0.0039
Venus	31829-04-18 19:26 G	13346471.16	13346471.31	13346471.50	0.0088	0.0057
Venus	31829-11-30 08:38 G	13346696.75	13346696.86	13346696.99	0.0088	0.0074
Mercury	31843-01-15 03:50 G	13351490.64	13351490.66	13351490.73	0.0089	0.0086
Mercury	31843-04-13 07:41 G	13351578.72	13351578.82	13351578.92	0.0089	0.0075
Mercury	31843-07-10 10:48 G	13351666.83	13351666.95	13351667.08	0.0089	0.0065
Mercury	31843-10-06 14:09 G	13351754.95	13351755.09	13351755.24	0.0089	0.0055
Mercury	31844-01-02 17:17 G	13351843.07	13351843.22	13351843.39	0.0089	0.0045
Mercury	31844-03-30 20:38 G	13351931.20	13351931.36	13351931.54	0.0089	0.0035
Mercury	31844-06-26 23:45 G	13352019.32	13352019.49	13352019.68	0.0089	0.0025
Mercury	31844-09-23 03:07 G	13352107.45	13352107.63	13352107.82	0.0089	0.0015
Mercury	31844-12-20 06:29 G	13352195.59	13352195.77	13352195.96	0.0089	0.0005
Mercury	31845-03-18 09:36 G	13352283.72	13352283.90	13352284.09	0.0089	0.0006
Mercury	31845-06-14 12:57 G	13352371.86	13352372.04	13352372.22	0.0089	0.0015
Mercury	31845-09-10 16:05 G	13352460.00	13352460.17	13352460.35	0.0089	0.0025
Mercury	31845-12-07 19:12 G	13352548.14	13352548.30	13352548.47	0.0089	0.0035
Mercury	31846-03-05 22:19 G	13352636.28	13352636.43	13352636.59	0.0089	0.0045
Mercury	31846-06-02 01:12 G	13352724.42	13352724.55	13352724.71	0.0089	0.0055
Mercury	31846-08-29 04:19 G	13352812.57	13352812.68	13352812.82	0.0089	0.0065
Mercury	31846-11-25 07:41 G	13352900.73	13352900.82	13352900.93	0.0089	0.0074
Mercury	31847-02-21 10:48 G	13352988.90	13352988.95	13352989.02	0.0089	0.0084
Mars	31863-01-30 06:14 G	13358810.67	13358810.76	13358810.85	0.0089	0.0085
Mars	31864-12-24 16:33 G	13359504.89	13359505.19	13359505.48	0.0089	0.0019
Mars	31866-11-18 23:45 G	13360199.25	13360199.49	13360199.76	0.0089	0.0047
Earth	31868-12-21 22:19 G	13360963.42	13360963.43	13360963.48	0.0089	0.0089
Moon	31869-12-24 11:17 G	13361330.84	13361330.97	13361331.14	0.0090	0.0071

Earth	31869-12-24 11:17 G	13361330.85	13361330.97	13361331.13	0.0090	0.0075	*
Moon	31870-12-26 22:33 G	13361698.27	13361698.44	13361698.63	0.0090	0.0065	
Earth	31870-12-27 00:00 G	13361698.34	13361698.50	13361698.72	0.0090	0.0061	*
Earth	31871-12-29 12:57 G	13362065.84	13362066.04	13362066.28	0.0090	0.0047	
Moon	31871-12-29 15:36 G	13362065.94	13362066.15	13362066.38	0.0090	0.0042	*
Moon	31872-12-30 22:33 G	13362433.22	13362433.44	13362433.70	0.0090	0.0037	
Earth	31872-12-31 01:55 G	13362433.36	13362433.58	13362433.84	0.0090	0.0032	*
Earth	31874-01-02 14:38 G	13362800.87	13362801.11	13362801.38	0.0090	0.0018	
Moon	31874-01-02 18:29 G	13362801.02	13362801.27	13362801.53	0.0090	0.0013	*
Moon	31875-01-05 00:29 G	13363168.27	13363168.52	13363168.78	0.0090	0.0007	
Earth	31875-01-05 03:50 G	13363168.41	13363168.66	13363168.92	0.0090	0.0003	*
Earth	31876-01-07 16:19 G	13363535.94	13363536.18	13363536.45	0.0090	0.0013	
Moon	31876-01-07 19:41 G	13363536.07	13363536.32	13363536.59	0.0090	0.0017	*
Moon	31877-01-09 03:07 G	13363903.40	13363903.63	13363903.89	0.0090	0.0023	
Earth	31877-01-09 05:17 G	13363903.48	13363903.72	13363903.97	0.0090	0.0027	*
Earth	31878-01-11 17:45 G	13364271.03	13364271.24	13364271.49	0.0090	0.0042	
Moon	31878-01-11 19:12 G	13364271.08	13364271.30	13364271.54	0.0090	0.0045	*
Moon	31879-01-14 06:43 G	13364638.58	13364638.78	13364638.99	0.0090	0.0052	
Earth	31879-01-14 06:43 G	13364638.59	13364638.78	13364639.00	0.0090	0.0056	*
Moon	31880-01-16 17:31 G	13365006.12	13365006.23	13365006.41	0.0090	0.0075	
Earth	31880-01-16 19:55 G	13365006.17	13365006.33	13365006.49	0.0090	0.0070	*
Earth	31881-01-18 08:09 G	13365373.78	13365373.84	13365373.95	0.0090	0.0085	
Moon	31881-01-18 10:33 G	13365373.85	13365373.94	13365374.06	0.0090	0.0081	*
Venus	31905-11-15 01:41 G	13374439.47	13374439.57	13374439.68	0.0089	0.0077	
Venus	31906-06-28 14:24 G	13374664.96	13374665.10	13374665.28	0.0089	0.0060	
Venus	31907-02-09 03:36 G	13374890.47	13374890.65	13374890.86	0.0089	0.0042	
Venus	31907-09-22 16:48 G	13375115.99	13375116.20	13375116.42	0.0089	0.0024	
Venus	31908-05-05 05:45 G	13375341.53	13375341.74	13375341.97	0.0089	0.0007	
Venus	31908-12-16 18:57 G	13375567.07	13375567.29	13375567.51	0.0089	0.0011	
Venus	31909-07-30 07:41 G	13375792.63	13375792.82	13375793.04	0.0089	0.0029	

Venus	31910-03-12 20:24 G	13376018.19	13376018.35	13376018.56	0.0089	0.0047
Venus	31910-10-24 09:36 G	13376243.76	13376243.90	13376244.06	0.0089	0.0064
Venus	31911-06-06 22:05 G	13376469.36	13376469.42	13376469.53	0.0089	0.0082
Mercury	31923-08-01 21:50 G	13380908.38	13380908.41	13380908.43	0.0088	0.0086
Mercury	31923-10-28 23:02 G	13380996.41	13380996.46	13380996.52	0.0088	0.0079
Mercury	31924-01-25 00:29 G	13381084.44	13381084.52	13381084.60	0.0088	0.0072
Mercury	31924-04-22 01:41 G	13381172.49	13381172.57	13381172.67	0.0088	0.0065
Mercury	31924-07-19 03:07 G	13381260.54	13381260.63	13381260.74	0.0088	0.0058
Mercury	31924-10-15 04:33 G	13381348.59	13381348.69	13381348.81	0.0088	0.0051
Mercury	31925-01-11 06:00 G	13381436.64	13381436.75	13381436.87	0.0088	0.0043
Mercury	31925-04-09 07:26 G	13381524.69	13381524.81	13381524.94	0.0088	0.0036
Mercury	31925-07-06 08:53 G	13381612.74	13381612.87	13381613.00	0.0088	0.0029
Mercury	31925-10-02 10:19 G	13381700.80	13381700.93	13381701.07	0.0088	0.0022
Mercury	31925-12-29 11:45 G	13381788.86	13381788.99	13381789.13	0.0088	0.0014
Mercury	31926-03-27 13:12 G	13381876.92	13381877.05	13381877.19	0.0088	0.0007
Mercury	31926-06-23 14:38 G	13381964.97	13381965.11	13381965.25	0.0088	0.0001
Mercury	31926-09-19 16:05 G	13382053.03	13382053.17	13382053.31	0.0088	0.0007
Mercury	31926-12-16 17:31 G	13382141.10	13382141.23	13382141.37	0.0088	0.0015
Mercury	31927-03-14 18:57 G	13382229.16	13382229.29	13382229.43	0.0088	0.0022
Mercury	31927-06-10 20:24 G	13382317.22	13382317.35	13382317.48	0.0088	0.0029
Mercury	31927-09-06 21:50 G	13382405.29	13382405.41	13382405.54	0.0088	0.0037
Mercury	31927-12-03 23:02 G	13382493.35	13382493.46	13382493.59	0.0088	0.0045
Mercury	31928-03-01 00:43 G	13382581.42	13382581.53	13382581.65	0.0088	0.0051
Mercury	31928-05-28 02:09 G	13382669.49	13382669.59	13382669.70	0.0088	0.0059
Mercury	31928-08-24 03:36 G	13382757.57	13382757.65	13382757.75	0.0088	0.0066
Mercury	31928-11-20 05:02 G	13382845.64	13382845.71	13382845.79	0.0088	0.0074
Mercury	31929-02-16 06:29 G	13382933.73	13382933.77	13382933.83	0.0088	0.0081
Mercury	31929-05-15 08:09 G	13383021.84	13383021.84	13383021.84	0.0088	0.0088
Mars	31944-10-10 19:12 G	13388649.28	13388649.30	13388649.38	0.0088	0.0087
Mars	31946-09-06 00:00 G	13389344.19	13389344.50	13389344.82	0.0088	0.0020



Mars	31948-08-01 06:00 G	13390039.50	13390039.75	13390040.05	0.0088	0.0048
Earth	31951-06-26 01:26 G	13391098.47	13391098.56	13391098.66	0.0088	0.0081
Moon	31951-06-26 01:26 G	13391098.51	13391098.56	13391098.62	0.0088	0.0085 *
Moon	31952-06-27 10:05 G	13391465.77	13391465.92	13391466.13	0.0088	0.0065
Earth	31952-06-27 11:31 G	13391465.84	13391465.98	13391466.16	0.0088	0.0068 *
Earth	31953-06-29 22:19 G	13391833.24	13391833.43	13391833.64	0.0088	0.0054
Moon	31953-06-29 23:45 G	13391833.33	13391833.49	13391833.71	0.0088	0.0059 *
Moon	31954-07-02 05:31 G	13392200.50	13392200.73	13392200.98	0.0088	0.0037
Earth	31954-07-02 08:38 G	13392200.65	13392200.86	13392201.11	0.0088	0.0041 *
Earth	31955-07-04 19:12 G	13392568.06	13392568.30	13392568.55	0.0088	0.0027
Moon	31955-07-04 22:33 G	13392568.21	13392568.44	13392568.69	0.0088	0.0031 *
Moon	31956-07-06 02:24 G	13392935.35	13392935.60	13392935.86	0.0088	0.0009
Earth	31956-07-06 06:00 G	13392935.50	13392935.75	13392936.01	0.0088	0.0013 *
Earth	31957-07-08 16:33 G	13393302.93	13393303.19	13393303.45	0.0088	0.0001
Moon	31957-07-08 19:41 G	13393303.06	13393303.32	13393303.58	0.0088	0.0004 *
Moon	31958-07-11 01:12 G	13393670.30	13393670.55	13393670.79	0.0088	0.0018
Earth	31958-07-11 02:53 G	13393670.38	13393670.62	13393670.89	0.0088	0.0015 *
Earth	31959-07-13 13:41 G	13394037.83	13394038.07	13394038.32	0.0088	0.0028
Moon	31959-07-13 14:53 G	13394037.88	13394038.12	13394038.39	0.0088	0.0024 *
Earth	31960-07-15 00:00 G	13394405.29	13394405.50	13394405.74	0.0088	0.0042
Moon	31960-07-15 00:29 G	13394405.32	13394405.52	13394405.74	0.0088	0.0046 *
Moon	31961-07-17 08:53 G	13394772.67	13394772.87	13394773.10	0.0088	0.0052
Earth	31961-07-17 10:19 G	13394772.75	13394772.93	13394773.15	0.0088	0.0056 *
Earth	31962-07-19 20:53 G	13395140.23	13395140.37	13395140.54	0.0088	0.0069
Moon	31962-07-19 22:48 G	13395140.35	13395140.45	13395140.62	0.0088	0.0074 *
Moon	31963-07-22 03:21 G	13395507.56	13395507.64	13395507.79	0.0088	0.0079
Earth	31963-07-22 06:57 G	13395507.74	13395507.79	13395507.91	0.0088	0.0083 *
Venus	31989-03-26 09:21 G	13404886.79	13404886.89	13404887.03	0.0088	0.0074
Venus	31989-11-06 22:33 G	13405112.28	13405112.44	13405112.62	0.0088	0.0057
Venus	31990-06-20 11:31 G	13405337.80	13405337.98	13405338.19	0.0088	0.0040

Venus	31991-02-01 00:29 G	13405563.32	13405563.52	13405563.75	0.0088	0.0023
Venus	31991-09-14 13:55 G	13405788.85	13405789.08	13405789.30	0.0088	0.0005
Venus	31992-04-27 02:38 G	13406014.40	13406014.61	13406014.83	0.0088	0.0013
Venus	31992-12-08 15:36 G	13406239.95	13406240.15	13406240.36	0.0088	0.0030
Venus	31993-07-22 04:48 G	13406465.52	13406465.70	13406465.89	0.0088	0.0048
Venus	31994-03-04 17:31 G	13406691.10	13406691.23	13406691.39	0.0088	0.0066
Venus	31994-10-16 06:43 G	13406916.71	13406916.78	13406916.86	0.0089	0.0083

# 33RD MILLENNIUM CE

**This is a list of transits visible from Neptune in the 33rd millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	32007-10-13 01:41 G		13411661.53	13411661.57	13411661.65	0.0089	0.0084	
Mercury	32008-01-09 05:02 G		13411749.62	13411749.71	13411749.83	0.0089	0.0074	
Mercury	32008-04-06 08:09 G		13411837.73	13411837.84	13411837.99	0.0089	0.0064	
Mercury	32008-07-03 12:00 G		13411925.85	13411926.00	13411926.15	0.0089	0.0053	
Mercury	32008-09-29 15:07 G		13412013.97	13412014.13	13412014.30	0.0089	0.0043	
Mercury	32008-12-26 18:29 G		13412102.10	13412102.27	13412102.45	0.0089	0.0033	
Mercury	32009-03-24 21:36 G		13412190.23	13412190.40	13412190.59	0.0089	0.0023	
Mercury	32009-06-21 00:57 G		13412278.36	13412278.54	13412278.73	0.0089	0.0013	
Mercury	32009-09-17 04:19 G		13412366.49	13412366.68	13412366.86	0.0089	0.0003	
Mercury	32009-12-14 07:26 G		13412454.63	13412454.81	13412455.00	0.0089	0.0007	
Mercury	32010-03-12 10:48 G		13412542.77	13412542.95	13412543.13	0.0089	0.0017	

Mercury	32010-06-08 13:55 G	13412630.91	13412631.08	13412631.26	0.0089	0.0027
Mercury	32010-09-04 17:02 G	13412719.05	13412719.21	13412719.38	0.0089	0.0037
Mercury	32010-12-01 20:09 G	13412807.19	13412807.34	13412807.50	0.0089	0.0047
Mercury	32011-02-27 23:17 G	13412895.34	13412895.47	13412895.62	0.0089	0.0057
Mercury	32011-05-27 02:09 G	13412983.49	13412983.59	13412983.73	0.0089	0.0067
Mercury	32011-08-23 05:45 G	13413071.65	13413071.74	13413071.83	0.0089	0.0077
Mercury	32011-11-19 08:38 G	13413159.83	13413159.86	13413159.91	0.0089	0.0086
Mars	32028-08-09 11:02 G	13419267.71	13419267.96	13419268.26	0.0089	0.0040
Mars	32030-07-04 20:38 G	13419962.09	13419962.36	13419962.67	0.0090	0.0027
Moon	32033-12-24 15:07 G	13421231.03	13421231.13	13421231.23	0.0090	0.0083
Earth	32033-12-24 16:48 G	13421231.13	13421231.20	13421231.31	0.0090	0.0084 *
Earth	32034-12-27 05:31 G	13421598.59	13421598.73	13421598.91	0.0090	0.0070
Moon	32034-12-27 09:07 G	13421598.73	13421598.88	13421599.04	0.0090	0.0070 *
Moon	32035-12-29 15:07 G	13421965.94	13421966.13	13421966.35	0.0090	0.0054
Earth	32035-12-29 18:43 G	13421966.09	13421966.28	13421966.50	0.0090	0.0055 *
Earth	32036-12-31 07:12 G	13422333.59	13422333.80	13422334.05	0.0090	0.0041
Moon	32036-12-31 11:02 G	13422333.74	13422333.96	13422334.20	0.0090	0.0040 *
Moon	32038-01-02 17:17 G	13422700.98	13422701.22	13422701.47	0.0090	0.0025
Earth	32038-01-02 20:24 G	13422701.12	13422701.35	13422701.61	0.0090	0.0026 *
Earth	32039-01-05 09:21 G	13423068.64	13423068.89	13423069.15	0.0090	0.0011
Moon	32039-01-05 11:45 G	13423068.73	13423068.99	13423069.26	0.0090	0.0011 *
Moon	32040-01-07 20:24 G	13423436.11	13423436.35	13423436.61	0.0090	0.0004
Earth	32040-01-07 22:05 G	13423436.17	13423436.42	13423436.69	0.0090	0.0005 *
Earth	32041-01-09 11:02 G	13423803.71	13423803.96	13423804.21	0.0090	0.0019
Moon	32041-01-09 10:48 G	13423803.71	13423803.95	13423804.23	0.0090	0.0020 *
Earth	32042-01-11 23:31 G	13424171.25	13424171.48	13424171.73	0.0090	0.0034
Moon	32042-01-12 00:29 G	13424171.31	13424171.52	13424171.77	0.0090	0.0034 *
Moon	32043-01-14 10:19 G	13424538.73	13424538.93	13424539.17	0.0090	0.0050
Earth	32043-01-14 12:14 G	13424538.81	13424539.01	13424539.25	0.0090	0.0049 *
Earth	32044-01-17 01:12 G	13424906.38	13424906.55	13424906.74	0.0090	0.0063

Moon	32044-01-17 04:19 G	13424906.51	13424906.68	13424906.87	0.0090	0.0062 *
Moon	32045-01-18 10:33 G	13425273.83	13425273.94	13425274.08	0.0090	0.0078
Earth	32045-01-18 13:41 G	13425273.97	13425274.07	13425274.22	0.0090	0.0078 *
Moon	32046-01-21 06:43 G	13425641.78	13425641.78	13425641.79	0.0090	0.0089
Venus	32070-02-16 10:48 G	13434433.90	13434433.95	13434434.02	0.0089	0.0085
Venus	32070-09-29 23:31 G	13434659.36	13434659.48	13434659.64	0.0089	0.0068
Venus	32071-05-13 12:43 G	13434884.86	13434885.03	13434885.22	0.0089	0.0050
Venus	32071-12-25 02:09 G	13435110.39	13435110.59	13435110.79	0.0089	0.0032
Venus	32072-08-06 14:53 G	13435335.91	13435336.12	13435336.35	0.0089	0.0015
Venus	32073-03-20 04:05 G	13435561.45	13435561.67	13435561.89	0.0089	0.0003
Venus	32073-10-31 16:48 G	13435787.00	13435787.20	13435787.42	0.0089	0.0021
Venus	32074-06-14 06:00 G	13436012.55	13436012.75	13436012.95	0.0089	0.0038
Venus	32075-01-25 18:43 G	13436238.13	13436238.28	13436238.47	0.0089	0.0056
Venus	32075-09-08 07:26 G	13436463.72	13436463.81	13436463.96	0.0089	0.0074
Mercury	32088-04-27 20:38 G	13441079.34	13441079.36	13441079.42	0.0088	0.0085
Mercury	32088-07-24 22:05 G	13441167.37	13441167.42	13441167.50	0.0088	0.0078
Mercury	32088-10-20 23:31 G	13441255.41	13441255.48	13441255.57	0.0088	0.0070
Mercury	32089-01-17 01:12 G	13441343.46	13441343.55	13441343.65	0.0088	0.0063
Mercury	32089-04-15 02:38 G	13441431.51	13441431.61	13441431.72	0.0088	0.0056
Mercury	32089-07-12 03:50 G	13441519.56	13441519.66	13441519.78	0.0088	0.0049
Mercury	32089-10-08 05:17 G	13441607.61	13441607.72	13441607.85	0.0088	0.0042
Mercury	32090-01-04 06:43 G	13441695.66	13441695.78	13441695.91	0.0088	0.0034
Mercury	32090-04-02 08:09 G	13441783.72	13441783.84	13441783.98	0.0088	0.0027
Mercury	32090-06-29 09:36 G	13441871.77	13441871.90	13441872.04	0.0088	0.0020
Mercury	32090-09-25 11:02 G	13441959.83	13441959.96	13441960.10	0.0088	0.0013
Mercury	32090-12-22 12:29 G	13442047.89	13442048.02	13442048.16	0.0088	0.0006
Mercury	32091-03-20 13:55 G	13442135.95	13442136.08	13442136.22	0.0088	0.0003
Mercury	32091-06-16 15:21 G	13442224.01	13442224.14	13442224.28	0.0088	0.0010
Mercury	32091-09-12 16:48 G	13442312.07	13442312.20	13442312.34	0.0088	0.0017
Mercury	32091-12-09 18:14 G	13442400.13	13442400.26	13442400.39	0.0088	0.0024

Mercury	32092-03-06 19:41 G	13442488.19	13442488.32	13442488.45	0.0088	0.0031
Mercury	32092-06-02 21:07 G	13442576.26	13442576.38	13442576.51	0.0088	0.0039
Mercury	32092-08-29 22:19 G	13442664.33	13442664.43	13442664.56	0.0088	0.0047
Mercury	32092-11-26 00:00 G	13442752.40	13442752.50	13442752.61	0.0088	0.0053
Mercury	32093-02-22 01:26 G	13442840.47	13442840.56	13442840.67	0.0088	0.0061
Mercury	32093-05-21 02:53 G	13442928.54	13442928.62	13442928.71	0.0088	0.0068
Mercury	32093-08-17 04:19 G	13443016.62	13443016.68	13443016.76	0.0088	0.0076
Mercury	32093-11-13 06:00 G	13443104.71	13443104.75	13443104.80	0.0088	0.0083
Mars	32110-04-21 01:41 G	13449106.31	13449106.57	13449106.88	0.0088	0.0041
Mars	32112-03-16 06:29 G	13449801.48	13449801.77	13449802.10	0.0088	0.0027
Jupiter	32112-03-22 04:33 G	13449807.14	13449807.69	13449808.25	0.0088	0.0005
Earth	32116-06-27 18:29 G	13451366.17	13451366.27	13451366.42	0.0088	0.0077
Moon	32116-06-27 21:50 G	13451366.28	13451366.41	13451366.55	0.0088	0.0073 *
Moon	32117-06-30 01:55 G	13451733.43	13451733.58	13451733.78	0.0088	0.0066
Earth	32117-06-30 05:17 G	13451733.56	13451733.72	13451733.92	0.0088	0.0063 *
Earth	32118-07-02 15:50 G	13452100.96	13452101.16	13452101.39	0.0088	0.0049
Moon	32118-07-02 19:41 G	13452101.11	13452101.32	13452101.55	0.0088	0.0046 *
Moon	32119-07-04 23:17 G	13452468.26	13452468.47	13452468.72	0.0088	0.0039
Earth	32119-07-05 02:38 G	13452468.38	13452468.61	13452468.85	0.0088	0.0035 *
Earth	32120-07-06 12:57 G	13452835.80	13452836.04	13452836.30	0.0088	0.0022
Moon	32120-07-06 16:05 G	13452835.92	13452836.17	13452836.43	0.0088	0.0019 *
Moon	32121-07-08 22:05 G	13453203.18	13453203.42	13453203.67	0.0088	0.0010
Earth	32121-07-08 23:31 G	13453203.23	13453203.48	13453203.75	0.0088	0.0008 *
Earth	32122-07-11 10:05 G	13453570.67	13453570.92	13453571.18	0.0088	0.0007
Moon	32122-07-11 10:05 G	13453570.67	13453570.92	13453571.20	0.0088	0.0010 *
Earth	32123-07-13 20:38 G	13453938.12	13453938.36	13453938.62	0.0088	0.0021
Moon	32123-07-13 21:07 G	13453938.15	13453938.38	13453938.64	0.0088	0.0019 *
Moon	32124-07-15 04:33 G	13454305.48	13454305.69	13454305.96	0.0088	0.0038
Earth	32124-07-15 06:57 G	13454305.57	13454305.79	13454306.05	0.0088	0.0035 *
Earth	32125-07-17 17:31 G	13454673.04	13454673.23	13454673.46	0.0088	0.0049

Moon	32125-07-17 20:38 G	13454673.16	13454673.36	13454673.59	0.0088	0.0046 *
Moon	32126-07-20 01:12 G	13455040.37	13455040.55	13455040.72	0.0088	0.0064
Earth	32126-07-20 04:19 G	13455040.51	13455040.68	13455040.87	0.0088	0.0062 *
Earth	32127-07-22 14:38 G	13455408.00	13455408.11	13455408.25	0.0088	0.0076
Moon	32127-07-22 18:00 G	13455408.14	13455408.25	13455408.42	0.0088	0.0074 *
Venus	32153-06-28 17:45 G	13464881.18	13464881.24	13464881.34	0.0088	0.0083
Venus	32154-02-09 06:43 G	13465106.66	13465106.78	13465106.95	0.0088	0.0066
Venus	32154-09-22 20:09 G	13465332.16	13465332.34	13465332.53	0.0088	0.0048
Venus	32155-05-06 08:53 G	13465557.68	13465557.87	13465558.09	0.0088	0.0031
Venus	32155-12-17 22:05 G	13465783.21	13465783.42	13465783.64	0.0088	0.0013
Venus	32156-07-30 11:17 G	13466008.75	13466008.97	13466009.19	0.0088	0.0005
Venus	32157-03-13 00:14 G	13466234.30	13466234.51	13466234.73	0.0088	0.0022
Venus	32157-10-24 12:57 G	13466459.85	13466460.04	13466460.25	0.0088	0.0039
Venus	32158-06-07 01:55 G	13466685.43	13466685.58	13466685.76	0.0088	0.0057
Venus	32159-01-18 14:38 G	13466911.02	13466911.11	13466911.26	0.0088	0.0075
Mercury	32172-07-09 23:02 G	13471832.42	13471832.46	13471832.55	0.0089	0.0083
Mercury	32172-10-06 02:53 G	13471920.52	13471920.62	13471920.73	0.0089	0.0072
Mercury	32173-01-02 06:00 G	13472008.63	13472008.75	13472008.89	0.0089	0.0062
Mercury	32173-03-31 09:21 G	13472096.75	13472096.89	13472097.05	0.0089	0.0052
Mercury	32173-06-27 12:29 G	13472184.87	13472185.02	13472185.20	0.0089	0.0042
Mercury	32173-09-23 15:50 G	13472273.00	13472273.16	13472273.35	0.0089	0.0032
Mercury	32173-12-20 19:12 G	13472361.13	13472361.30	13472361.49	0.0089	0.0022
Mercury	32174-03-18 22:33 G	13472449.26	13472449.44	13472449.63	0.0089	0.0012
Mercury	32174-06-15 01:55 G	13472537.39	13472537.58	13472537.76	0.0089	0.0002
Mercury	32174-09-11 05:02 G	13472625.53	13472625.71	13472625.90	0.0089	0.0009
Mercury	32174-12-08 08:09 G	13472713.67	13472713.84	13472714.03	0.0089	0.0019
Mercury	32175-03-06 11:17 G	13472801.81	13472801.97	13472802.16	0.0089	0.0029
Mercury	32175-06-02 14:24 G	13472889.95	13472890.10	13472890.28	0.0089	0.0039
Mercury	32175-08-29 18:00 G	13472978.09	13472978.25	13472978.40	0.0089	0.0048
Mercury	32175-11-25 20:53 G	13473066.24	13473066.37	13473066.52	0.0089	0.0059

Mercury	32176-02-22 00:00 G	13473154.40	13473154.50	13473154.63	0.0089	0.0068
Mercury	32176-05-20 03:07 G	13473242.56	13473242.63	13473242.73	0.0089	0.0078
Mercury	32176-08-16 06:00 G	13473330.75	13473330.75	13473330.80	0.0089	0.0088
Mars	32192-03-25 03:21 G	13479030.43	13479030.64	13479030.88	0.0089	0.0061
Mars	32194-02-17 14:24 G	13479724.79	13479725.10	13479725.40	0.0089	0.0006
Mars	32196-01-12 23:02 G	13480419.29	13480419.46	13480419.65	0.0090	0.0071
Moon	32198-12-27 06:57 G	13481498.66	13481498.79	13481498.95	0.0090	0.0074
Earth	32198-12-27 10:33 G	13481498.84	13481498.94	13481499.08	0.0090	0.0079 *
Earth	32199-12-29 23:17 G	13481866.30	13481866.47	13481866.66	0.0090	0.0064
Moon	32199-12-30 02:09 G	13481866.45	13481866.59	13481866.79	0.0090	0.0069 *
Moon	32201-01-01 09:50 G	13482233.69	13482233.91	13482234.13	0.0090	0.0045
Earth	32201-01-01 12:00 G	13482233.81	13482234.00	13482234.24	0.0090	0.0050 *
Earth	32202-01-04 01:12 G	13482601.33	13482601.55	13482601.80	0.0090	0.0035
Moon	32202-01-04 03:21 G	13482601.41	13482601.64	13482601.88	0.0090	0.0039 *
Moon	32203-01-06 13:55 G	13482968.84	13482969.08	13482969.33	0.0090	0.0016
Earth	32203-01-06 14:09 G	13482968.85	13482969.09	13482969.35	0.0090	0.0020 *
Moon	32204-01-09 02:53 G	13483336.36	13483336.62	13483336.89	0.0090	0.0009
Earth	32204-01-09 03:21 G	13483336.38	13483336.64	13483336.90	0.0090	0.0004 *
Earth	32205-01-10 16:05 G	13483703.92	13483704.17	13483704.43	0.0090	0.0010
Moon	32205-01-10 17:31 G	13483704.00	13483704.23	13483704.49	0.0090	0.0016 *
Moon	32206-01-13 02:09 G	13484071.33	13484071.59	13484071.84	0.0090	0.0021
Earth	32206-01-13 04:48 G	13484071.46	13484071.70	13484071.96	0.0090	0.0026 *
Earth	32207-01-15 17:17 G	13484439.01	13484439.22	13484439.47	0.0090	0.0041
Moon	32207-01-15 20:53 G	13484439.15	13484439.37	13484439.59	0.0090	0.0045 *
Moon	32208-01-18 02:09 G	13484806.40	13484806.59	13484806.83	0.0090	0.0051
Earth	32208-01-18 06:00 G	13484806.57	13484806.75	13484806.98	0.0090	0.0056 *
Earth	32209-01-19 18:57 G	13485174.15	13485174.29	13485174.47	0.0090	0.0070
Moon	32209-01-19 22:05 G	13485174.30	13485174.42	13485174.59	0.0090	0.0075 *
Moon	32210-01-22 04:33 G	13485541.61	13485541.69	13485541.83	0.0090	0.0081
Earth	32210-01-22 07:41 G	13485541.76	13485541.82	13485541.93	0.0090	0.0085 *

Venus	32235-01-03 09:07 G	13494653.77	13494653.88	13494654.00	0.0089	0.0075
Venus	32235-08-16 21:50 G	13494879.26	13494879.41	13494879.59	0.0089	0.0058
Venus	32236-03-29 11:02 G	13495104.77	13495104.96	13495105.16	0.0089	0.0040
Venus	32236-11-09 23:45 G	13495330.29	13495330.49	13495330.71	0.0089	0.0023
Venus	32237-06-23 12:57 G	13495555.82	13495556.04	13495556.26	0.0089	0.0005
Venus	32238-02-04 01:55 G	13495781.37	13495781.58	13495781.81	0.0089	0.0013
Venus	32238-09-17 14:53 G	13496006.92	13496007.12	13496007.34	0.0089	0.0030
Venus	32239-05-01 03:36 G	13496232.48	13496232.65	13496232.85	0.0089	0.0048
Venus	32239-12-12 16:48 G	13496458.06	13496458.20	13496458.36	0.0089	0.0065
Venus	32240-07-25 05:31 G	13496683.67	13496683.73	13496683.83	0.0089	0.0083
Mercury	32253-01-24 20:09 G	13501250.30	13501250.34	13501250.39	0.0088	0.0083
Mercury	32253-04-22 21:36 G	13501338.33	13501338.40	13501338.47	0.0088	0.0076
Mercury	32253-07-19 22:48 G	13501426.37	13501426.45	13501426.54	0.0088	0.0069
Mercury	32253-10-16 00:14 G	13501514.42	13501514.51	13501514.61	0.0088	0.0062
Mercury	32254-01-12 01:41 G	13501602.47	13501602.57	13501602.68	0.0088	0.0054
Mercury	32254-04-10 03:07 G	13501690.52	13501690.63	13501690.75	0.0088	0.0047
Mercury	32254-07-07 04:19 G	13501778.57	13501778.68	13501778.81	0.0088	0.0041
Mercury	32254-10-03 06:00 G	13501866.62	13501866.75	13501866.88	0.0088	0.0033
Mercury	32254-12-30 07:26 G	13501954.68	13501954.81	13501954.94	0.0088	0.0026
Mercury	32255-03-28 08:53 G	13502042.73	13502042.87	13502043.00	0.0088	0.0018
Mercury	32255-06-24 10:19 G	13502130.79	13502130.93	13502131.06	0.0088	0.0011
Mercury	32255-09-20 11:45 G	13502218.85	13502218.99	13502219.12	0.0088	0.0004
Mercury	32255-12-17 13:12 G	13502306.91	13502307.05	13502307.18	0.0088	0.0004
Mercury	32256-03-14 14:24 G	13502394.97	13502395.10	13502395.24	0.0088	0.0011
Mercury	32256-06-10 15:50 G	13502483.03	13502483.16	13502483.30	0.0088	0.0018
Mercury	32256-09-06 17:17 G	13502571.09	13502571.22	13502571.36	0.0088	0.0026
Mercury	32256-12-03 18:57 G	13502659.16	13502659.29	13502659.41	0.0088	0.0033
Mercury	32257-03-01 20:09 G	13502747.22	13502747.34	13502747.47	0.0088	0.0040
Mercury	32257-05-28 21:36 G	13502835.29	13502835.40	13502835.52	0.0088	0.0047
Mercury	32257-08-24 23:17 G	13502923.36	13502923.47	13502923.58	0.0088	0.0055



Mercury	32257-11-21 00:29 G	13503011.43	13503011.52	13503011.63	0.0088	0.0062
Mercury	32258-02-17 01:55 G	13503099.51	13503099.58	13503099.67	0.0088	0.0070
Mercury	32258-05-16 03:21 G	13503187.58	13503187.64	13503187.72	0.0088	0.0077
Mercury	32258-08-12 04:48 G	13503275.67	13503275.70	13503275.75	0.0088	0.0084
Mars	32273-12-04 06:00 G	13508868.54	13508868.75	13508869.00	0.0088	0.0061
Mars	32275-10-30 07:41 G	13509563.50	13509563.82	13509564.15	0.0088	0.0006
Mars	32277-09-24 12:14 G	13510258.86	13510259.01	13510259.22	0.0088	0.0073
Moon	32280-06-27 21:50 G	13511266.41	13511266.41	13511266.46	0.0088	0.0088
Earth	32280-06-28 01:55 G	13511266.53	13511266.58	13511266.65	0.0088	0.0085
Earth	32281-06-30 11:45 G	13511633.87	13511633.99	13511634.17	0.0088	0.0072
Moon	32281-06-30 15:07 G	13511634.00	13511634.13	13511634.32	0.0088	0.0069 *
Moon	32282-07-02 19:26 G	13512001.15	13512001.31	13512001.51	0.0088	0.0061
Earth	32282-07-02 22:33 G	13512001.27	13512001.44	13512001.66	0.0088	0.0058 *
Earth	32283-07-05 09:07 G	13512368.67	13512368.88	13512369.12	0.0088	0.0044
Moon	32283-07-05 11:02 G	13512368.74	13512368.96	13512369.21	0.0088	0.0041 *
Moon	32284-07-06 18:29 G	13512736.06	13512736.27	13512736.52	0.0088	0.0033
Earth	32284-07-06 19:41 G	13512736.09	13512736.32	13512736.58	0.0088	0.0030 *
Moon	32285-07-09 06:00 G	13513103.49	13513103.75	13513104.02	0.0088	0.0013
Earth	32285-07-09 06:14 G	13513103.51	13513103.76	13513104.02	0.0088	0.0016 *
Earth	32286-07-11 16:48 G	13513470.94	13513471.20	13513471.46	0.0088	0.0001
Moon	32286-07-11 18:43 G	13513471.03	13513471.28	13513471.53	0.0088	0.0004 *
Moon	32287-07-14 00:29 G	13513838.27	13513838.52	13513838.79	0.0088	0.0016
Earth	32287-07-14 03:07 G	13513838.38	13513838.63	13513838.89	0.0088	0.0013 *
Earth	32288-07-15 13:26 G	13514205.83	13514206.06	13514206.32	0.0088	0.0027
Moon	32288-07-15 16:48 G	13514205.97	13514206.20	13514206.46	0.0088	0.0024 *
Moon	32289-07-17 20:09 G	13514573.14	13514573.34	13514573.58	0.0088	0.0044
Earth	32289-07-17 23:45 G	13514573.28	13514573.49	13514573.74	0.0088	0.0041 *
Earth	32290-07-20 10:19 G	13514940.75	13514940.93	13514941.15	0.0088	0.0055
Moon	32290-07-20 13:55 G	13514940.88	13514941.08	13514941.30	0.0088	0.0051 *
Moon	32291-07-22 18:29 G	13515308.13	13515308.27	13515308.41	0.0088	0.0072

Earth	32291-07-22 20:53 G	13515308.23	13515308.37	13515308.55	0.0088	0.0069 *
Earth	32292-07-24 07:12 G	13515675.74	13515675.80	13515675.91	0.0088	0.0083
Moon	32292-07-24 09:07 G	13515675.78	13515675.88	13515676.00	0.0088	0.0079 *
Venus	32318-05-15 14:53 G	13525101.01	13525101.12	13525101.25	0.0088	0.0073
Venus	32318-12-27 03:50 G	13525326.50	13525326.66	13525326.84	0.0088	0.0056
Venus	32319-08-09 16:48 G	13525552.02	13525552.20	13525552.42	0.0088	0.0039
Venus	32320-03-22 06:00 G	13525777.54	13525777.75	13525777.97	0.0088	0.0022
Venus	32320-11-02 19:12 G	13526003.08	13526003.30	13526003.52	0.0088	0.0004
Venus	32321-06-16 07:55 G	13526228.62	13526228.83	13526229.06	0.0088	0.0014
Venus	32322-01-27 20:53 G	13526454.18	13526454.37	13526454.59	0.0088	0.0031
Venus	32322-09-10 10:05 G	13526679.74	13526679.92	13526680.11	0.0088	0.0048
Venus	32323-04-23 22:33 G	13526905.32	13526905.44	13526905.61	0.0088	0.0066
Venus	32323-12-05 11:31 G	13527130.93	13527130.98	13527131.08	0.0088	0.0083
Mercury	32337-04-07 20:38 G	13532003.30	13532003.36	13532003.44	0.0089	0.0082
Mercury	32337-07-04 23:45 G	13532091.40	13532091.49	13532091.62	0.0089	0.0072
Mercury	32337-10-01 03:07 G	13532179.51	13532179.63	13532179.78	0.0089	0.0062
Mercury	32337-12-28 06:43 G	13532267.63	13532267.78	13532267.94	0.0089	0.0051
Mercury	32338-03-26 10:05 G	13532355.76	13532355.92	13532356.09	0.0089	0.0041
Mercury	32338-06-22 13:12 G	13532443.88	13532444.05	13532444.23	0.0089	0.0031
Mercury	32338-09-18 16:33 G	13532532.02	13532532.19	13532532.38	0.0089	0.0021
Mercury	32338-12-15 19:55 G	13532620.15	13532620.33	13532620.52	0.0089	0.0011
Mercury	32339-03-13 23:17 G	13532708.28	13532708.47	13532708.65	0.0089	0.0001
Mercury	32339-06-10 02:24 G	13532796.42	13532796.60	13532796.79	0.0089	0.0009
Mercury	32339-09-06 05:45 G	13532884.56	13532884.74	13532884.92	0.0089	0.0019
Mercury	32339-12-03 08:53 G	13532972.70	13532972.87	13532973.05	0.0089	0.0029
Mercury	32340-02-29 12:00 G	13533060.84	13533061.00	13533061.17	0.0089	0.0039
Mercury	32340-05-27 15:07 G	13533148.99	13533149.13	13533149.29	0.0089	0.0049
Mercury	32340-08-23 18:14 G	13533237.13	13533237.26	13533237.41	0.0089	0.0059
Mercury	32340-11-19 21:21 G	13533325.29	13533325.39	13533325.52	0.0089	0.0069
Mercury	32341-02-16 00:29 G	13533413.45	13533413.52	13533413.62	0.0089	0.0079

Mercury	32341-05-15 03:50 G	13533501.66	13533501.66	13533501.68	0.0089	0.0089
Mars	32355-11-09 14:38 G	13538793.03	13538793.11	13538793.24	0.0089	0.0084
Mars	32357-10-04 05:31 G	13539487.44	13539487.73	13539488.04	0.0089	0.0017
Mars	32359-08-29 15:50 G	13540181.91	13540182.16	13540182.41	0.0090	0.0050
Earth	32362-12-28 13:55 G	13541399.07	13541399.08	13541399.15	0.0090	0.0089
Moon	32362-12-28 17:17 G	13541399.18	13541399.22	13541399.31	0.0090	0.0087
Moon	32363-12-31 00:57 G	13541766.44	13541766.54	13541766.70	0.0090	0.0077
Earth	32363-12-31 02:53 G	13541766.50	13541766.62	13541766.79	0.0090	0.0074 *
Earth	32365-01-01 15:50 G	13542133.98	13542134.16	13542134.37	0.0090	0.0059
Moon	32365-01-01 16:48 G	13542134.01	13542134.20	13542134.42	0.0090	0.0057 *
Earth	32366-01-04 04:48 G	13542501.48	13542501.70	13542501.93	0.0090	0.0044
Moon	32366-01-04 04:33 G	13542501.50	13542501.69	13542501.93	0.0090	0.0046 *
Moon	32367-01-06 15:50 G	13542868.92	13542869.16	13542869.43	0.0090	0.0027
Earth	32367-01-06 17:45 G	13542869.00	13542869.24	13542869.49	0.0090	0.0029 *
Earth	32368-01-09 06:43 G	13543236.53	13543236.78	13543237.04	0.0090	0.0014
Moon	32368-01-09 08:53 G	13543236.63	13543236.87	13543237.13	0.0090	0.0016 *
Moon	32369-01-10 16:48 G	13543603.93	13543604.20	13543604.46	0.0090	0.0003
Earth	32369-01-10 19:55 G	13543604.07	13543604.33	13543604.59	0.0090	0.0001 *
Earth	32370-01-13 08:38 G	13543971.61	13543971.86	13543972.12	0.0090	0.0017
Moon	32370-01-13 12:29 G	13543971.77	13543972.02	13543972.28	0.0090	0.0015 *
Moon	32371-01-15 18:00 G	13544339.03	13544339.25	13544339.50	0.0090	0.0033
Earth	32371-01-15 21:36 G	13544339.16	13544339.40	13544339.65	0.0090	0.0032 *
Earth	32372-01-18 10:19 G	13544706.72	13544706.93	13544707.16	0.0090	0.0047
Moon	32372-01-18 13:26 G	13544706.86	13544707.06	13544707.30	0.0090	0.0047 *
Moon	32373-01-19 21:21 G	13545074.22	13545074.39	13545074.57	0.0090	0.0063
Earth	32373-01-19 23:17 G	13545074.29	13545074.47	13545074.66	0.0090	0.0062 *
Earth	32374-01-22 11:45 G	13545441.88	13545441.99	13545442.14	0.0090	0.0077
Moon	32374-01-22 12:57 G	13545441.93	13545442.04	13545442.20	0.0090	0.0077 *
Venus	32399-04-07 17:02 G	13554648.16	13554648.21	13554648.31	0.0089	0.0084
Venus	32399-11-19 06:14 G	13554873.63	13554873.76	13554873.92	0.0089	0.0066

Venus	32400-07-01 19:12 G	13555099.13	13555099.30	13555099.50	0.0089	0.0049
Venus	32401-02-12 08:24 G	13555324.65	13555324.85	13555325.06	0.0089	0.0031
Venus	32401-09-25 21:21 G	13555550.18	13555550.39	13555550.61	0.0089	0.0014
Venus	32402-05-09 10:19 G	13555775.71	13555775.93	13555776.15	0.0089	0.0004
Venus	32402-12-20 23:31 G	13556001.26	13556001.48	13556001.69	0.0089	0.0021
Venus	32403-08-03 12:14 G	13556226.82	13556227.01	13556227.22	0.0089	0.0039
Venus	32404-03-16 01:12 G	13556452.39	13556452.55	13556452.73	0.0089	0.0056
Venus	32404-10-27 13:55 G	13556677.98	13556678.08	13556678.22	0.0089	0.0074
Mercury	32417-10-22 19:12 G	13561421.26	13561421.30	13561421.35	0.0088	0.0082
Mercury	32418-01-18 20:38 G	13561509.29	13561509.36	13561509.43	0.0088	0.0075
Mercury	32418-04-16 21:50 G	13561597.34	13561597.41	13561597.51	0.0088	0.0068
Mercury	32418-07-13 23:17 G	13561685.38	13561685.47	13561685.58	0.0088	0.0061
Mercury	32418-10-10 00:43 G	13561773.43	13561773.53	13561773.65	0.0088	0.0053
Mercury	32419-01-06 02:09 G	13561861.48	13561861.59	13561861.71	0.0088	0.0046
Mercury	32419-04-04 03:36 G	13561949.53	13561949.65	13561949.78	0.0088	0.0039
Mercury	32419-07-01 05:02 G	13562037.59	13562037.71	13562037.84	0.0088	0.0032
Mercury	32419-09-27 06:29 G	13562125.64	13562125.77	13562125.90	0.0088	0.0024
Mercury	32419-12-24 07:55 G	13562213.70	13562213.83	13562213.97	0.0088	0.0017
Mercury	32420-03-21 09:21 G	13562301.75	13562301.89	13562302.03	0.0088	0.0010
Mercury	32420-06-17 10:48 G	13562389.81	13562389.95	13562390.09	0.0088	0.0003
Mercury	32420-09-13 12:14 G	13562477.87	13562478.01	13562478.15	0.0088	0.0005
Mercury	32420-12-10 13:41 G	13562565.93	13562566.07	13562566.20	0.0088	0.0012
Mercury	32421-03-08 15:07 G	13562653.99	13562654.13	13562654.26	0.0088	0.0019
Mercury	32421-06-04 16:33 G	13562742.06	13562742.19	13562742.32	0.0088	0.0027
Mercury	32421-08-31 17:45 G	13562830.12	13562830.24	13562830.37	0.0088	0.0034
Mercury	32421-11-27 19:12 G	13562918.19	13562918.30	13562918.43	0.0088	0.0041
Mercury	32422-02-23 20:53 G	13563006.25	13563006.37	13563006.48	0.0088	0.0049
Mercury	32422-05-22 22:05 G	13563094.32	13563094.42	13563094.54	0.0088	0.0056
Mercury	32422-08-18 23:31 G	13563182.39	13563182.48	13563182.58	0.0088	0.0064
Mercury	32422-11-15 01:12 G	13563270.47	13563270.55	13563270.63	0.0088	0.0071

Mercury	32423-02-11 02:24 G	13563358.55	13563358.60	13563358.67	0.0088	0.0078
Mercury	32423-05-10 04:05 G	13563446.64	13563446.67	13563446.71	0.0088	0.0085
Mars	32437-07-19 10:33 G	13568630.85	13568630.94	13568631.10	0.0088	0.0081
Mars	32439-06-14 10:33 G	13569325.64	13569325.94	13569326.27	0.0088	0.0016
Mars	32441-05-09 11:45 G	13570020.76	13570020.99	13570021.28	0.0088	0.0052
Moon	32445-06-30 16:05 G	13571534.07	13571534.17	13571534.31	0.0088	0.0077
Earth	32445-06-30 18:14 G	13571534.19	13571534.26	13571534.38	0.0088	0.0081 *
Earth	32446-07-03 04:48 G	13571901.56	13571901.70	13571901.89	0.0088	0.0067
Moon	32446-07-03 06:57 G	13571901.64	13571901.79	13571901.96	0.0088	0.0070 *
Earth	32447-07-05 15:36 G	13572268.96	13572269.15	13572269.38	0.0088	0.0053
Moon	32447-07-05 15:36 G	13572268.97	13572269.15	13572269.38	0.0088	0.0049 *
Moon	32448-07-07 01:12 G	13572636.33	13572636.55	13572636.80	0.0088	0.0042
Earth	32448-07-07 02:38 G	13572636.38	13572636.61	13572636.84	0.0088	0.0038 *
Earth	32449-07-09 12:43 G	13573003.79	13573004.03	13573004.29	0.0088	0.0024
Moon	32449-07-09 14:38 G	13573003.88	13573004.11	13573004.37	0.0088	0.0021 *
Moon	32450-07-11 20:09 G	13573371.08	13573371.34	13573371.60	0.0088	0.0014
Earth	32450-07-11 23:17 G	13573371.22	13573371.47	13573371.74	0.0088	0.0010 *
Earth	32451-07-14 09:50 G	13573738.66	13573738.91	13573739.17	0.0088	0.0005
Moon	32451-07-14 13:12 G	13573738.80	13573739.05	13573739.31	0.0088	0.0008 *
Moon	32452-07-15 16:33 G	13574105.94	13574106.19	13574106.45	0.0088	0.0015
Earth	32452-07-15 20:09 G	13574106.10	13574106.34	13574106.60	0.0088	0.0019 *
Earth	32453-07-18 06:29 G	13574473.54	13574473.77	13574474.02	0.0088	0.0033
Moon	32453-07-18 09:36 G	13574473.67	13574473.90	13574474.14	0.0088	0.0037 *
Moon	32454-07-20 14:53 G	13574840.91	13574841.12	13574841.35	0.0088	0.0044
Earth	32454-07-20 17:02 G	13574841.00	13574841.21	13574841.43	0.0088	0.0047 *
Earth	32455-07-23 03:36 G	13575208.47	13575208.65	13575208.83	0.0088	0.0061
Moon	32455-07-23 04:19 G	13575208.53	13575208.68	13575208.89	0.0088	0.0065 *
Earth	32456-07-24 13:26 G	13575575.96	13575576.06	13575576.22	0.0088	0.0076
Moon	32456-07-24 14:09 G	13575575.97	13575576.09	13575576.25	0.0088	0.0072 *
Venus	32482-08-16 22:19 G	13585095.37	13585095.43	13585095.53	0.0088	0.0082

Venus	32483-03-30 11:17 G	13585320.84	13585320.97	13585321.14	0.0088	0.0065
Venus	32483-11-11 00:43 G	13585546.35	13585546.53	13585546.72	0.0088	0.0048
Venus	32484-06-23 13:41 G	13585771.87	13585772.07	13585772.29	0.0088	0.0031
Venus	32485-02-04 02:53 G	13585997.40	13585997.62	13585997.84	0.0088	0.0013
Venus	32485-09-17 15:50 G	13586222.94	13586223.16	13586223.38	0.0088	0.0004
Venus	32486-05-01 04:48 G	13586448.49	13586448.70	13586448.92	0.0088	0.0021
Venus	32486-12-12 17:45 G	13586674.05	13586674.24	13586674.44	0.0088	0.0039
Venus	32487-07-26 06:57 G	13586899.62	13586899.79	13586899.96	0.0088	0.0056
Venus	32488-03-07 19:26 G	13587125.21	13587125.31	13587125.46	0.0088	0.0074
Mercury	32502-01-03 17:31 G	13592174.18	13592174.23	13592174.32	0.0089	0.0082
Mercury	32502-04-01 20:53 G	13592262.28	13592262.37	13592262.50	0.0089	0.0072
Mercury	32502-06-29 00:29 G	13592350.39	13592350.52	13592350.66	0.0089	0.0061
Mercury	32502-09-25 03:50 G	13592438.51	13592438.66	13592438.81	0.0089	0.0051
Mercury	32502-12-22 06:57 G	13592526.63	13592526.79	13592526.97	0.0089	0.0041
Mercury	32503-03-20 10:19 G	13592614.76	13592614.93	13592615.11	0.0089	0.0031
Mercury	32503-06-16 13:41 G	13592702.89	13592703.07	13592703.25	0.0089	0.0021
Mercury	32503-09-12 16:48 G	13592791.02	13592791.20	13592791.39	0.0089	0.0011
Mercury	32503-12-09 20:09 G	13592879.16	13592879.34	13592879.53	0.0089	0.0002
Mercury	32504-03-06 23:31 G	13592967.30	13592967.48	13592967.67	0.0089	0.0010
Mercury	32504-06-03 02:38 G	13593055.43	13593055.61	13593055.80	0.0089	0.0020
Mercury	32504-08-30 05:45 G	13593143.58	13593143.74	13593143.92	0.0089	0.0030
Mercury	32504-11-26 08:53 G	13593231.72	13593231.87	13593232.05	0.0089	0.0040
Mercury	32505-02-22 12:00 G	13593319.86	13593320.00	13593320.17	0.0089	0.0050
Mercury	32505-05-21 15:36 G	13593408.01	13593408.15	13593408.29	0.0089	0.0059
Mercury	32505-08-17 18:43 G	13593496.17	13593496.28	13593496.40	0.0089	0.0069
Mercury	32505-11-13 21:36 G	13593584.33	13593584.40	13593584.50	0.0089	0.0079
Mercury	32506-02-10 00:57 G	13593672.54	13593672.54	13593672.55	0.0089	0.0089
Mars	32521-05-19 15:50 G	13599249.89	13599250.16	13599250.44	0.0089	0.0039
Mars	32523-04-14 05:45 G	13599944.45	13599944.74	13599945.03	0.0089	0.0028
Moon	32527-12-31 06:29 G	13601666.67	13601666.77	13601666.91	0.0090	0.0080

Earth	32527-12-31 06:29 G	13601666.70	13601666.77	13601666.88	0.0090	0.0084	*
Earth	32529-01-01 19:12 G	13602034.15	13602034.30	13602034.48	0.0090	0.0069	
Moon	32529-01-01 20:38 G	13602034.23	13602034.36	13602034.52	0.0090	0.0072	*
Moon	32530-01-04 06:00 G	13602401.54	13602401.75	13602401.98	0.0090	0.0050	
Earth	32530-01-04 07:55 G	13602401.64	13602401.83	13602402.06	0.0090	0.0054	*
Earth	32531-01-06 20:24 G	13602769.14	13602769.35	13602769.61	0.0090	0.0039	
Moon	32531-01-06 23:45 G	13602769.28	13602769.49	13602769.73	0.0090	0.0043	*
Moon	32532-01-09 06:14 G	13603136.52	13603136.76	13603137.02	0.0090	0.0020	
Earth	32532-01-09 09:36 G	13603136.66	13603136.90	13603137.16	0.0090	0.0024	*
Earth	32533-01-10 22:48 G	13603504.19	13603504.45	13603504.71	0.0090	0.0008	
Moon	32533-01-11 02:09 G	13603504.34	13603504.59	13603504.85	0.0090	0.0013	*
Moon	32534-01-13 08:24 G	13603871.60	13603871.85	13603872.11	0.0090	0.0012	
Earth	32534-01-13 11:31 G	13603871.73	13603871.98	13603872.24	0.0090	0.0008	*
Earth	32535-01-16 00:29 G	13604239.28	13604239.52	13604239.78	0.0090	0.0023	
Moon	32535-01-16 02:53 G	13604239.36	13604239.62	13604239.88	0.0090	0.0019	*
Moon	32536-01-18 11:31 G	13604606.78	13604606.98	13604607.22	0.0090	0.0043	
Earth	32536-01-18 13:41 G	13604606.84	13604607.07	13604607.30	0.0090	0.0038	*
Moon	32537-01-20 02:24 G	13604974.39	13604974.60	13604974.84	0.0090	0.0049	
Earth	32537-01-20 02:09 G	13604974.40	13604974.59	13604974.81	0.0090	0.0054	*
Earth	32538-01-22 14:53 G	13605341.98	13605342.12	13605342.31	0.0090	0.0069	
Moon	32538-01-22 15:50 G	13605342.04	13605342.16	13605342.33	0.0090	0.0073	*
Moon	32539-01-25 02:09 G	13605709.48	13605709.59	13605709.72	0.0090	0.0079	
Earth	32539-01-25 03:36 G	13605709.59	13605709.65	13605709.77	0.0090	0.0084	*
Venus	32564-02-21 14:24 G	13614868.00	13614868.10	13614868.24	0.0089	0.0075	
Venus	32564-10-04 03:36 G	13615093.49	13615093.65	13615093.83	0.0089	0.0057	
Venus	32565-05-17 16:33 G	13615319.00	13615319.19	13615319.40	0.0089	0.0040	
Venus	32565-12-29 05:45 G	13615544.53	13615544.74	13615544.96	0.0089	0.0022	
Venus	32566-08-11 18:43 G	13615770.06	13615770.28	13615770.50	0.0089	0.0005	
Venus	32567-03-25 07:26 G	13615995.60	13615995.81	13615996.04	0.0089	0.0013	
Venus	32567-11-05 20:24 G	13616221.15	13616221.35	13616221.56	0.0089	0.0030	

Venus	32568-06-18 09:21 G	13616446.71	13616446.89	13616447.08	0.0089	0.0047
Venus	32569-01-29 22:05 G	13616672.29	13616672.42	13616672.59	0.0089	0.0065
Venus	32569-09-12 11:17 G	13616897.90	13616897.97	13616898.06	0.0089	0.0082
Mercury	32582-04-23 16:48 G	13621504.20	13621504.20	13621504.21	0.0088	0.0088
Mercury	32582-07-20 18:00 G	13621592.21	13621592.25	13621592.32	0.0088	0.0081
Mercury	32582-10-16 19:26 G	13621680.25	13621680.31	13621680.39	0.0088	0.0074
Mercury	32583-01-12 21:07 G	13621768.29	13621768.38	13621768.47	0.0088	0.0067
Mercury	32583-04-10 22:19 G	13621856.34	13621856.43	13621856.54	0.0088	0.0060
Mercury	32583-07-07 23:45 G	13621944.39	13621944.49	13621944.60	0.0088	0.0053
Mercury	32583-10-04 01:12 G	13622032.44	13622032.55	13622032.67	0.0088	0.0045
Mercury	32583-12-31 02:24 G	13622120.49	13622120.60	13622120.73	0.0088	0.0039
Mercury	32584-03-28 03:50 G	13622208.54	13622208.66	13622208.80	0.0088	0.0032
Mercury	32584-06-24 05:31 G	13622296.60	13622296.73	13622296.86	0.0088	0.0024
Mercury	32584-09-20 06:57 G	13622384.65	13622384.79	13622384.92	0.0088	0.0016
Mercury	32584-12-17 08:24 G	13622472.71	13622472.85	13622472.98	0.0088	0.0009
Mercury	32585-03-15 09:50 G	13622560.77	13622560.91	13622561.04	0.0088	0.0003
Mercury	32585-06-11 11:02 G	13622648.83	13622648.96	13622649.10	0.0088	0.0006
Mercury	32585-09-07 12:29 G	13622736.89	13622737.02	13622737.16	0.0088	0.0013
Mercury	32585-12-04 13:55 G	13622824.95	13622825.08	13622825.22	0.0088	0.0020
Mercury	32586-03-02 15:21 G	13622913.01	13622913.14	13622913.28	0.0088	0.0027
Mercury	32586-05-29 16:48 G	13623001.08	13623001.20	13623001.33	0.0088	0.0035
Mercury	32586-08-25 18:14 G	13623089.14	13623089.26	13623089.39	0.0088	0.0042
Mercury	32586-11-21 19:41 G	13623177.21	13623177.32	13623177.44	0.0088	0.0049
Mercury	32587-02-17 20:53 G	13623265.28	13623265.37	13623265.49	0.0088	0.0058
Mercury	32587-05-16 22:33 G	13623353.35	13623353.44	13623353.54	0.0088	0.0064
Mercury	32587-08-13 00:00 G	13623441.43	13623441.50	13623441.59	0.0088	0.0072
Mercury	32587-11-09 01:26 G	13623529.51	13623529.56	13623529.63	0.0088	0.0079
Mercury	32588-02-05 02:53 G	13623617.61	13623617.62	13623617.66	0.0088	0.0087
Mars	32603-01-28 13:55 G	13629087.81	13629088.08	13629088.40	0.0088	0.0036
Mars	32604-12-23 14:24 G	13629782.80	13629783.10	13629783.41	0.0088	0.0030



Earth	32610-07-04 10:33 G	13631801.84	13631801.94	13631802.10	0.0088	0.0076
Moon	32610-07-04 10:48 G	13631801.85	13631801.95	13631802.11	0.0088	0.0075 *
Moon	32611-07-06 19:12 G	13632169.15	13632169.30	13632169.52	0.0088	0.0063
Earth	32611-07-06 21:21 G	13632169.23	13632169.39	13632169.60	0.0088	0.0062 *
Earth	32612-07-08 08:09 G	13632536.63	13632536.84	13632537.07	0.0088	0.0047
Moon	32612-07-08 10:48 G	13632536.76	13632536.95	13632537.18	0.0088	0.0047 *
Moon	32613-07-10 15:21 G	13632903.92	13632904.14	13632904.40	0.0088	0.0035
Earth	32613-07-10 18:43 G	13632904.05	13632904.28	13632904.53	0.0088	0.0033 *
Earth	32614-07-13 05:17 G	13633271.48	13633271.72	13633271.98	0.0088	0.0019
Moon	32614-07-13 09:07 G	13633271.63	13633271.88	13633272.14	0.0088	0.0017 *
Moon	32615-07-15 12:43 G	13633638.78	13633639.03	13633639.29	0.0088	0.0006
Earth	32615-07-15 15:50 G	13633638.91	13633639.16	13633639.42	0.0088	0.0004 *
Earth	32616-07-17 02:09 G	13634006.34	13634006.59	13634006.85	0.0088	0.0011
Moon	32616-07-17 05:02 G	13634006.46	13634006.71	13634006.98	0.0088	0.0013 *
Moon	32617-07-19 11:02 G	13634373.73	13634373.96	13634374.21	0.0088	0.0023
Earth	32617-07-19 12:29 G	13634373.78	13634374.02	13634374.28	0.0088	0.0025 *
Earth	32618-07-21 23:02 G	13634741.23	13634741.46	13634741.70	0.0088	0.0039
Moon	32618-07-21 22:48 G	13634741.23	13634741.45	13634741.71	0.0088	0.0041 *
Earth	32619-07-24 09:07 G	13635108.70	13635108.88	13635109.10	0.0088	0.0054
Moon	32619-07-24 09:50 G	13635108.73	13635108.91	13635109.13	0.0088	0.0052 *
Moon	32620-07-25 17:31 G	13635476.07	13635476.23	13635476.39	0.0088	0.0069
Earth	32620-07-25 19:26 G	13635476.17	13635476.31	13635476.49	0.0088	0.0068 *
Earth	32621-07-28 05:45 G	13635843.67	13635843.74	13635843.85	0.0088	0.0082
Moon	32621-07-28 08:38 G	13635843.79	13635843.86	13635843.99	0.0088	0.0081 *
Venus	32647-07-03 18:29 G	13645315.18	13645315.27	13645315.41	0.0088	0.0074
Venus	32648-02-14 07:55 G	13645540.67	13645540.83	13645541.00	0.0088	0.0057
Venus	32648-09-26 20:53 G	13645766.18	13645766.37	13645766.57	0.0088	0.0040
Venus	32649-05-10 09:50 G	13645991.70	13645991.91	13645992.13	0.0088	0.0023
Venus	32649-12-21 23:02 G	13646217.24	13646217.46	13646217.68	0.0088	0.0005
Venus	32650-08-04 12:00 G	13646442.79	13646443.00	13646443.23	0.0088	0.0012

Venus	32651-03-18 00:57 G	13646668.34	13646668.54	13646668.76	0.0088	0.0030
Venus	32651-10-29 13:55 G	13646893.90	13646894.08	13646894.28	0.0088	0.0047
Venus	32652-06-11 03:07 G	13647119.48	13647119.63	13647119.79	0.0088	0.0064
Venus	32653-01-22 16:05 G	13647345.09	13647345.17	13647345.26	0.0088	0.0081
Mercury	32666-10-01 14:38 G	13652345.05	13652345.11	13652345.19	0.0089	0.0082
Mercury	32666-12-28 17:45 G	13652433.15	13652433.24	13652433.37	0.0089	0.0072
Mercury	32667-03-26 21:36 G	13652521.27	13652521.40	13652521.54	0.0089	0.0061
Mercury	32667-06-23 00:43 G	13652609.39	13652609.53	13652609.69	0.0089	0.0051
Mercury	32667-09-19 04:05 G	13652697.51	13652697.67	13652697.84	0.0089	0.0041
Mercury	32667-12-16 07:12 G	13652785.64	13652785.80	13652785.99	0.0089	0.0031
Mercury	32668-03-13 10:33 G	13652873.77	13652873.94	13652874.13	0.0089	0.0021
Mercury	32668-06-09 14:09 G	13652961.90	13652962.09	13652962.27	0.0089	0.0010
Mercury	32668-09-05 17:17 G	13653050.04	13653050.22	13653050.41	0.0089	0.0002
Mercury	32668-12-02 20:38 G	13653138.18	13653138.36	13653138.54	0.0089	0.0010
Mercury	32669-02-28 23:45 G	13653226.31	13653226.49	13653226.68	0.0089	0.0020
Mercury	32669-05-28 02:53 G	13653314.45	13653314.62	13653314.80	0.0089	0.0030
Mercury	32669-08-24 06:00 G	13653402.60	13653402.75	13653402.93	0.0089	0.0040
Mercury	32669-11-20 09:07 G	13653490.74	13653490.88	13653491.05	0.0089	0.0050
Mercury	32670-02-16 12:14 G	13653578.89	13653579.01	13653579.17	0.0089	0.0060
Mercury	32670-05-15 15:21 G	13653667.05	13653667.14	13653667.28	0.0089	0.0070
Mercury	32670-08-11 18:57 G	13653755.21	13653755.29	13653755.37	0.0089	0.0080
Mars	32685-01-01 23:17 G	13659012.28	13659012.47	13659012.73	0.0089	0.0063
Mars	32686-11-27 14:38 G	13659706.81	13659707.11	13659707.43	0.0089	0.0006
Mars	32688-10-22 03:50 G	13660401.51	13660401.66	13660401.87	0.0090	0.0072
Moon	32693-01-01 18:57 G	13661934.21	13661934.29	13661934.40	0.0090	0.0083
Earth	32693-01-01 22:05 G	13661934.32	13661934.42	13661934.56	0.0090	0.0079 *
Earth	32694-01-04 10:33 G	13662301.78	13662301.94	13662302.14	0.0090	0.0064
Moon	32694-01-04 13:41 G	13662301.91	13662302.07	13662302.28	0.0090	0.0061 *
Moon	32695-01-06 19:55 G	13662669.13	13662669.33	13662669.55	0.0090	0.0052
Earth	32695-01-06 23:17 G	13662669.28	13662669.47	13662669.71	0.0090	0.0049 *

Earth	32696-01-09 12:29 G	13663036.79	13663037.02	13663037.27	0.0090	0.0033
Moon	32696-01-09 15:36 G	13663036.91	13663037.15	13663037.41	0.0090	0.0030 *
Moon	32697-01-10 22:19 G	13663404.20	13663404.43	13663404.69	0.0090	0.0021
Earth	32697-01-11 01:12 G	13663404.31	13663404.55	13663404.81	0.0090	0.0018 *
Earth	32698-01-13 14:09 G	13663771.84	13663772.09	13663772.35	0.0090	0.0003
Moon	32698-01-13 16:05 G	13663771.91	13663772.17	13663772.44	0.0090	0.0002 *
Moon	32699-01-16 02:53 G	13664139.38	13664139.62	13664139.87	0.0090	0.0011
Earth	32699-01-16 03:07 G	13664139.38	13664139.63	13664139.89	0.0090	0.0014 *
Moon	32700-01-18 15:21 G	13664506.91	13664507.14	13664507.41	0.0090	0.0032
Earth	32700-01-18 16:05 G	13664506.93	13664507.17	13664507.42	0.0090	0.0029 *
Earth	32701-01-21 04:48 G	13664874.50	13664874.70	13664874.94	0.0090	0.0045
Moon	32701-01-21 06:43 G	13664874.57	13664874.78	13664875.01	0.0090	0.0042 *
Moon	32702-01-23 14:53 G	13665241.95	13665242.12	13665242.32	0.0090	0.0063
Earth	32702-01-23 17:45 G	13665242.07	13665242.24	13665242.45	0.0090	0.0060 *
Earth	32703-01-26 06:57 G	13665609.66	13665609.79	13665609.94	0.0090	0.0075
Moon	32703-01-26 09:36 G	13665609.78	13665609.90	13665610.07	0.0090	0.0074 *
Venus	32728-05-26 22:19 G	13674862.36	13674862.43	13674862.51	0.0089	0.0083
Venus	32729-01-07 11:17 G	13675087.84	13675087.97	13675088.13	0.0089	0.0066
Venus	32729-08-21 00:14 G	13675313.35	13675313.51	13675313.71	0.0089	0.0049
Venus	32730-04-03 13:26 G	13675538.86	13675539.06	13675539.27	0.0089	0.0031
Venus	32730-11-15 02:24 G	13675764.39	13675764.60	13675764.82	0.0089	0.0014
Venus	32731-06-28 15:36 G	13675989.93	13675990.15	13675990.37	0.0089	0.0004
Venus	32732-02-09 04:33 G	13676215.48	13676215.69	13676215.91	0.0089	0.0021
Venus	32732-09-21 17:31 G	13676441.03	13676441.23	13676441.43	0.0089	0.0038
Venus	32733-05-05 06:00 G	13676666.60	13676666.75	13676666.94	0.0089	0.0056
Venus	32733-12-16 19:12 G	13676892.19	13676892.30	13676892.43	0.0089	0.0073
Mercury	32747-01-20 15:50 G	13681675.15	13681675.16	13681675.18	0.0088	0.0087
Mercury	32747-04-18 17:02 G	13681763.17	13681763.21	13681763.28	0.0088	0.0081
Mercury	32747-07-15 18:29 G	13681851.21	13681851.27	13681851.35	0.0088	0.0073
Mercury	32747-10-11 19:55 G	13681939.25	13681939.33	13681939.43	0.0088	0.0066

Mercury	32748-01-07 21:07 G	13682027.30	13682027.38	13682027.49	0.0088	0.0060
Mercury	32748-04-04 22:48 G	13682115.34	13682115.45	13682115.56	0.0088	0.0052
Mercury	32748-07-02 00:14 G	13682203.39	13682203.51	13682203.63	0.0088	0.0045
Mercury	32748-09-28 01:26 G	13682291.45	13682291.56	13682291.69	0.0088	0.0038
Mercury	32748-12-25 02:53 G	13682379.50	13682379.62	13682379.75	0.0088	0.0030
Mercury	32749-03-23 04:19 G	13682467.55	13682467.68	13682467.82	0.0088	0.0023
Mercury	32749-06-19 05:45 G	13682555.61	13682555.74	13682555.88	0.0088	0.0016
Mercury	32749-09-15 07:12 G	13682643.67	13682643.80	13682643.94	0.0088	0.0009
Mercury	32749-12-12 08:38 G	13682731.72	13682731.86	13682732.00	0.0088	0.0001
Mercury	32750-03-10 10:05 G	13682819.78	13682819.92	13682820.06	0.0088	0.0006
Mercury	32750-06-06 11:31 G	13682907.84	13682907.98	13682908.11	0.0088	0.0013
Mercury	32750-09-02 12:57 G	13682995.91	13682996.04	13682996.17	0.0088	0.0021
Mercury	32750-11-29 14:09 G	13683083.97	13683084.09	13683084.23	0.0088	0.0029
Mercury	32751-02-25 15:36 G	13683172.03	13683172.15	13683172.28	0.0088	0.0036
Mercury	32751-05-24 17:17 G	13683260.10	13683260.22	13683260.34	0.0088	0.0043
Mercury	32751-08-20 18:29 G	13683348.17	13683348.27	13683348.39	0.0088	0.0050
Mercury	32751-11-16 20:09 G	13683436.24	13683436.34	13683436.44	0.0088	0.0057
Mercury	32752-02-12 21:21 G	13683524.31	13683524.39	13683524.49	0.0088	0.0065
Mercury	32752-05-10 22:48 G	13683612.38	13683612.45	13683612.54	0.0088	0.0073
Mercury	32752-08-07 00:29 G	13683700.47	13683700.52	13683700.58	0.0088	0.0080
Mercury	32752-11-03 01:41 G	13683788.57	13683788.57	13683788.60	0.0088	0.0087
Mars	32766-09-12 18:43 G	13688850.05	13688850.28	13688850.53	0.0088	0.0056
Mars	32768-08-07 16:48 G	13689544.89	13689545.20	13689545.53	0.0088	0.0010
Mars	32770-07-03 17:45 G	13690240.10	13690240.24	13690240.42	0.0088	0.0076
Moon	32774-07-04 14:24 G	13691702.03	13691702.10	13691702.24	0.0088	0.0081
Earth	32774-07-04 17:02 G	13691702.16	13691702.21	13691702.29	0.0088	0.0085 *
Earth	32775-07-07 03:21 G	13692069.51	13692069.64	13692069.82	0.0088	0.0071
Moon	32775-07-07 07:12 G	13692069.67	13692069.80	13692069.92	0.0088	0.0075 *
Moon	32776-07-08 10:33 G	13692436.75	13692436.94	13692437.17	0.0088	0.0052
Earth	32776-07-08 14:38 G	13692436.91	13692437.11	13692437.31	0.0088	0.0056 *

Earth	32777-07-11 00:43 G	13692804.32	13692804.53	13692804.78	0.0088	0.0042
Moon	32777-07-11 04:19 G	13692804.48	13692804.68	13692804.92	0.0088	0.0046 *
Moon	32778-07-13 08:24 G	13693171.62	13693171.85	13693172.11	0.0088	0.0023
Earth	32778-07-13 11:31 G	13693171.75	13693171.98	13693172.24	0.0088	0.0028 *
Earth	32779-07-15 22:05 G	13693539.18	13693539.42	13693539.69	0.0088	0.0013
Moon	32779-07-16 00:00 G	13693539.25	13693539.50	13693539.77	0.0088	0.0017 *
Moon	32780-07-17 07:41 G	13693906.57	13693906.82	13693907.07	0.0088	0.0006
Earth	32780-07-17 08:38 G	13693906.61	13693906.86	13693907.12	0.0088	0.0003 *
Moon	32781-07-19 18:43 G	13694274.02	13694274.28	13694274.55	0.0088	0.0012
Earth	32781-07-19 18:57 G	13694274.05	13694274.29	13694274.55	0.0088	0.0017 *
Earth	32782-07-22 05:31 G	13694641.49	13694641.73	13694641.97	0.0088	0.0031
Moon	32782-07-22 07:12 G	13694641.58	13694641.80	13694642.04	0.0088	0.0036 *
Moon	32783-07-24 12:43 G	13695008.82	13695009.03	13695009.29	0.0088	0.0042
Earth	32783-07-24 15:21 G	13695008.94	13695009.14	13695009.38	0.0088	0.0046 *
Earth	32784-07-26 01:55 G	13695376.40	13695376.58	13695376.78	0.0088	0.0060
Moon	32784-07-26 05:02 G	13695376.56	13695376.71	13695376.90	0.0088	0.0065 *
Moon	32785-07-28 08:38 G	13695743.72	13695743.86	13695744.03	0.0088	0.0070
Earth	32785-07-28 12:00 G	13695743.89	13695744.00	13695744.16	0.0088	0.0075 *
Venus	32811-10-06 02:24 G	13705309.54	13705309.60	13705309.69	0.0088	0.0083
Venus	32812-05-18 15:21 G	13705535.00	13705535.14	13705535.30	0.0088	0.0065
Venus	32812-12-30 04:19 G	13705760.51	13705760.68	13705760.87	0.0088	0.0049
Venus	32813-08-12 17:31 G	13705986.03	13705986.23	13705986.44	0.0088	0.0031
Venus	32814-03-26 06:29 G	13706211.56	13706211.77	13706211.99	0.0088	0.0014
Venus	32814-11-06 19:41 G	13706437.10	13706437.32	13706437.54	0.0088	0.0003
Venus	32815-06-20 08:24 G	13706662.65	13706662.85	13706663.08	0.0088	0.0021
Venus	32816-01-31 21:21 G	13706888.20	13706888.39	13706888.60	0.0088	0.0038
Venus	32816-09-13 10:33 G	13707113.77	13707113.94	13707114.12	0.0088	0.0055
Venus	32817-04-26 23:31 G	13707339.36	13707339.48	13707339.62	0.0088	0.0072
Mercury	32831-06-29 11:31 G	13712515.92	13712515.98	13712516.06	0.0089	0.0082
Mercury	32831-09-25 14:53 G	13712604.02	13712604.12	13712604.24	0.0089	0.0072

Mercury	32831-12-22 18:00 G	13712692.14	13712692.25	13712692.41	0.0089	0.0062
Mercury	32832-03-19 21:50 G	13712780.26	13712780.41	13712780.56	0.0089	0.0051
Mercury	32832-06-16 00:57 G	13712868.38	13712868.54	13712868.71	0.0089	0.0041
Mercury	32832-09-12 04:19 G	13712956.51	13712956.68	13712956.86	0.0089	0.0031
Mercury	32832-12-09 07:41 G	13713044.64	13713044.82	13713045.01	0.0089	0.0021
Mercury	32833-03-07 11:02 G	13713132.78	13713132.96	13713133.15	0.0089	0.0010
Mercury	32833-06-03 14:24 G	13713220.91	13713221.10	13713221.28	0.0089	0.0001
Mercury	32833-08-30 17:31 G	13713309.05	13713309.23	13713309.42	0.0089	0.0010
Mercury	32833-11-26 20:38 G	13713397.19	13713397.36	13713397.55	0.0089	0.0020
Mercury	32834-02-23 00:00 G	13713485.33	13713485.50	13713485.68	0.0089	0.0030
Mercury	32834-05-22 03:07 G	13713573.47	13713573.63	13713573.80	0.0089	0.0040
Mercury	32834-08-18 06:14 G	13713661.62	13713661.76	13713661.92	0.0089	0.0050
Mercury	32834-11-14 09:21 G	13713749.77	13713749.89	13713750.04	0.0089	0.0060
Mercury	32835-02-10 12:29 G	13713837.93	13713838.02	13713838.15	0.0089	0.0070
Mercury	32835-05-09 15:36 G	13713926.09	13713926.15	13713926.25	0.0089	0.0080
Mars	32848-08-17 06:14 G	13718774.70	13718774.76	13718774.88	0.0089	0.0086
Mars	32850-07-13 00:14 G	13719469.21	13719469.51	13719469.82	0.0089	0.0018
Mars	32852-06-06 13:55 G	13720163.85	13720164.08	13720164.36	0.0089	0.0050
Jupiter	32853-10-19 03:50 G	13720663.13	13720663.66	13720664.19	0.0090	0.0010
Earth	32857-01-02 00:57 G	13721834.52	13721834.54	13721834.57	0.0090	0.0089
Moon	32857-01-02 04:05 G	13721834.65	13721834.67	13721834.75	0.0090	0.0088
Moon	32858-01-04 10:19 G	13722201.81	13722201.93	13722202.07	0.0090	0.0076
Earth	32858-01-04 13:26 G	13722201.93	13722202.06	13722202.22	0.0090	0.0074 *
Earth	32859-01-07 01:55 G	13722569.41	13722569.58	13722569.80	0.0090	0.0059
Moon	32859-01-07 05:17 G	13722569.53	13722569.72	13722569.94	0.0090	0.0056 *
Moon	32860-01-09 13:26 G	13722936.85	13722937.06	13722937.28	0.0090	0.0045
Earth	32860-01-09 15:07 G	13722936.91	13722937.13	13722937.36	0.0090	0.0043 *
Earth	32861-01-11 03:36 G	13723304.42	13723304.65	13723304.91	0.0090	0.0028
Moon	32861-01-11 04:48 G	13723304.44	13723304.70	13723304.95	0.0090	0.0025 *
Earth	32862-01-13 16:33 G	13723671.93	13723672.19	13723672.45	0.0090	0.0012

Moon	32862-01-13 16:33 G	13723671.95	13723672.19	13723672.44	0.0090	0.0015 *
Moon	32863-01-16 03:21 G	13724039.38	13724039.64	13724039.91	0.0090	0.0007
Earth	32863-01-16 05:31 G	13724039.47	13724039.73	13724039.98	0.0090	0.0004 *
Earth	32864-01-18 18:00 G	13724407.01	13724407.25	13724407.51	0.0090	0.0020
Moon	32864-01-18 20:38 G	13724407.11	13724407.36	13724407.61	0.0090	0.0017 *
Moon	32865-01-20 03:21 G	13724774.42	13724774.64	13724774.90	0.0090	0.0039
Earth	32865-01-20 07:12 G	13724774.56	13724774.80	13724775.03	0.0090	0.0035 *
Earth	32866-01-22 19:41 G	13725142.13	13725142.32	13725142.55	0.0090	0.0051
Moon	32866-01-22 23:31 G	13725142.27	13725142.48	13725142.71	0.0090	0.0048 *
Moon	32867-01-25 05:17 G	13725509.59	13725509.72	13725509.91	0.0090	0.0070
Earth	32867-01-25 09:21 G	13725509.71	13725509.89	13725510.06	0.0090	0.0066 *
Earth	32868-01-27 21:36 G	13725877.32	13725877.40	13725877.53	0.0090	0.0082
Moon	32868-01-28 00:57 G	13725877.43	13725877.54	13725877.69	0.0090	0.0078 *
Venus	32893-04-10 18:43 G	13735082.18	13735082.28	13735082.41	0.0089	0.0075
Venus	32893-11-22 08:09 G	13735307.67	13735307.84	13735308.01	0.0089	0.0058
Venus	32894-07-05 20:53 G	13735533.19	13735533.37	13735533.58	0.0089	0.0041
Venus	32895-02-16 10:05 G	13735758.72	13735758.92	13735759.14	0.0089	0.0023
Venus	32895-09-29 23:17 G	13735984.25	13735984.47	13735984.69	0.0089	0.0005
Venus	32896-05-12 12:00 G	13736209.79	13736210.00	13736210.23	0.0089	0.0012
Venus	32896-12-24 01:12 G	13736435.35	13736435.55	13736435.76	0.0089	0.0029
Venus	32897-08-06 13:41 G	13736660.91	13736661.07	13736661.28	0.0089	0.0047
Venus	32898-03-20 02:38 G	13736886.48	13736886.61	13736886.78	0.0089	0.0064
Venus	32898-10-31 15:36 G	13737112.08	13737112.15	13737112.26	0.0089	0.0081
Mercury	32911-10-18 14:53 G	13741846.10	13741846.12	13741846.15	0.0088	0.0087
Mercury	32912-01-14 16:19 G	13741934.13	13741934.18	13741934.24	0.0088	0.0080
Mercury	32912-04-11 17:31 G	13742022.16	13742022.23	13742022.31	0.0088	0.0073
Mercury	32912-07-08 18:57 G	13742110.21	13742110.29	13742110.38	0.0088	0.0066
Mercury	32912-10-04 20:09 G	13742198.25	13742198.34	13742198.45	0.0088	0.0059
Mercury	32912-12-31 21:36 G	13742286.30	13742286.40	13742286.52	0.0088	0.0051
Mercury	32913-03-29 23:02 G	13742374.35	13742374.46	13742374.58	0.0088	0.0044

Mercury	32913-06-26 00:29 G	13742462.40	13742462.52	13742462.65	0.0088	0.0037
Mercury	32913-09-22 01:55 G	13742550.45	13742550.58	13742550.71	0.0088	0.0030
Mercury	32913-12-19 03:21 G	13742638.51	13742638.64	13742638.77	0.0088	0.0022
Mercury	32914-03-17 04:48 G	13742726.56	13742726.70	13742726.83	0.0088	0.0015
Mercury	32914-06-13 06:14 G	13742814.62	13742814.76	13742814.89	0.0088	0.0008
Mercury	32914-09-09 07:41 G	13742902.68	13742902.82	13742902.95	0.0088	0.0002
Mercury	32914-12-06 08:53 G	13742990.74	13742990.87	13742991.01	0.0088	0.0008
Mercury	32915-03-04 10:19 G	13743078.80	13743078.93	13743079.07	0.0088	0.0014
Mercury	32915-05-31 11:45 G	13743166.86	13743166.99	13743167.13	0.0088	0.0021
Mercury	32915-08-27 13:12 G	13743254.92	13743255.05	13743255.18	0.0088	0.0029
Mercury	32915-11-23 14:38 G	13743342.99	13743343.11	13743343.24	0.0088	0.0036
Mercury	32916-02-19 16:05 G	13743431.06	13743431.17	13743431.29	0.0088	0.0043
Mercury	32916-05-17 17:17 G	13743519.12	13743519.22	13743519.35	0.0088	0.0051
Mercury	32916-08-13 18:57 G	13743607.19	13743607.29	13743607.40	0.0088	0.0058
Mercury	32916-11-09 20:24 G	13743695.26	13743695.35	13743695.45	0.0088	0.0066
Mercury	32917-02-05 21:36 G	13743783.34	13743783.40	13743783.49	0.0088	0.0074
Mercury	32917-05-04 23:17 G	13743871.42	13743871.47	13743871.53	0.0088	0.0080
Mercury	32917-08-01 00:43 G	13743959.53	13743959.53	13743959.55	0.0088	0.0088
Mars	32930-04-28 01:41 G	13748612.45	13748612.57	13748612.76	0.0088	0.0077
Mars	32932-03-22 21:21 G	13749307.08	13749307.39	13749307.72	0.0088	0.0012
Mars	32934-02-15 18:43 G	13750002.06	13750002.28	13750002.56	0.0088	0.0055
Moon	32939-07-07 06:00 G	13751969.66	13751969.75	13751969.87	0.0088	0.0080
Earth	32939-07-07 09:36 G	13751969.81	13751969.90	13751970.02	0.0088	0.0080 *
Earth	32940-07-08 19:55 G	13752337.18	13752337.33	13752337.52	0.0088	0.0066
Moon	32940-07-08 23:17 G	13752337.31	13752337.47	13752337.66	0.0088	0.0065 *
Moon	32941-07-11 04:33 G	13752704.50	13752704.69	13752704.91	0.0088	0.0051
Earth	32941-07-11 06:43 G	13752704.59	13752704.78	13752705.01	0.0088	0.0051 *
Earth	32942-07-13 17:45 G	13753072.01	13753072.24	13753072.48	0.0088	0.0036
Moon	32942-07-13 18:57 G	13753072.07	13753072.29	13753072.56	0.0088	0.0037 *
Earth	32943-07-16 04:05 G	13753439.43	13753439.67	13753439.93	0.0088	0.0022



Moon	32943-07-16 04:19 G	13753439.44	13753439.68	13753439.93	0.0088	0.0022	*
Moon	32944-07-17 13:41 G	13753806.81	13753807.07	13753807.34	0.0088	0.0006	
Earth	32944-07-17 14:53 G	13753806.87	13753807.12	13753807.38	0.0088	0.0007	*
Earth	32945-07-20 01:26 G	13754174.31	13754174.56	13754174.82	0.0088	0.0008	
Moon	32945-07-20 03:21 G	13754174.40	13754174.64	13754174.90	0.0088	0.0009	*
Moon	32946-07-22 08:09 G	13754541.60	13754541.84	13754542.11	0.0088	0.0024	
Earth	32946-07-22 11:45 G	13754541.75	13754541.99	13754542.25	0.0088	0.0023	*
Earth	32947-07-24 21:50 G	13754909.20	13754909.41	13754909.66	0.0088	0.0038	
Moon	32947-07-25 01:26 G	13754909.34	13754909.56	13754909.80	0.0088	0.0038	*
Moon	32948-07-26 04:48 G	13755276.51	13755276.70	13755276.92	0.0088	0.0052	
Earth	32948-07-26 08:53 G	13755276.66	13755276.87	13755277.07	0.0088	0.0052	*
Earth	32949-07-28 18:43 G	13755644.13	13755644.28	13755644.46	0.0088	0.0067	
Moon	32949-07-28 21:36 G	13755644.25	13755644.40	13755644.59	0.0088	0.0067	*
Moon	32950-07-31 03:07 G	13756011.55	13756011.63	13756011.74	0.0088	0.0081	
Earth	32950-07-31 05:31 G	13756011.64	13756011.73	13756011.83	0.0088	0.0081	*
Venus	32976-08-20 22:48 G	13765529.36	13765529.45	13765529.59	0.0088	0.0074	
Venus	32977-04-03 11:45 G	13765754.84	13765754.99	13765755.18	0.0088	0.0057	
Venus	32977-11-15 00:43 G	13765980.35	13765980.53	13765980.75	0.0088	0.0041	
Venus	32978-06-28 13:55 G	13766205.88	13766206.08	13766206.31	0.0088	0.0023	
Venus	32979-02-09 03:07 G	13766431.41	13766431.63	13766431.86	0.0088	0.0006	
Venus	32979-09-22 16:05 G	13766656.96	13766657.17	13766657.39	0.0088	0.0011	
Venus	32980-05-05 05:02 G	13766882.51	13766882.71	13766882.92	0.0088	0.0028	
Venus	32980-12-16 18:00 G	13767108.07	13767108.25	13767108.45	0.0088	0.0046	
Venus	32981-07-30 07:12 G	13767333.65	13767333.80	13767333.96	0.0088	0.0063	
Venus	32982-03-12 20:09 G	13767559.26	13767559.34	13767559.44	0.0088	0.0080	
Mercury	32996-03-26 08:24 G	13772686.80	13772686.85	13772686.94	0.0089	0.0082	
Mercury	32996-06-22 11:45 G	13772774.90	13772774.99	13772775.12	0.0089	0.0072	
Mercury	32996-09-18 15:21 G	13772863.01	13772863.14	13772863.28	0.0089	0.0061	
Mercury	32996-12-15 18:43 G	13772951.13	13772951.28	13772951.44	0.0089	0.0051	
Mercury	32997-03-13 21:50 G	13773039.26	13773039.41	13773039.59	0.0089	0.0041	

Mercury	32997-06-10 01:12 G	13773127.39	13773127.55	13773127.74	0.0089	0.0031
Mercury	32997-09-06 04:48 G	13773215.52	13773215.70	13773215.88	0.0089	0.0020
Mercury	32997-12-03 08:09 G	13773303.65	13773303.84	13773304.03	0.0089	0.0010
Mercury	32998-03-01 11:31 G	13773391.79	13773391.98	13773392.16	0.0089	0.0001
Mercury	32998-05-28 14:38 G	13773479.93	13773480.11	13773480.30	0.0089	0.0010
Mercury	32998-08-24 18:00 G	13773568.07	13773568.25	13773568.43	0.0089	0.0020
Mercury	32998-11-20 21:07 G	13773656.21	13773656.38	13773656.56	0.0089	0.0030
Mercury	32999-02-17 00:29 G	13773744.35	13773744.52	13773744.68	0.0089	0.0040
Mercury	32999-05-16 03:36 G	13773832.50	13773832.65	13773832.81	0.0089	0.0050
Mercury	32999-08-12 06:43 G	13773920.65	13773920.78	13773920.92	0.0089	0.0060
Mercury	32999-11-08 09:50 G	13774008.81	13774008.91	13774009.03	0.0089	0.0070
Mercury	33000-02-04 12:57 G	13774096.98	13774097.04	13774097.13	0.0089	0.0080

# 34TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 34th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	33014-02-26 06:14 G	13779231.49	13779231.76	13779232.04	0.0089	0.0041		
Mars	33016-01-21 23:31 G	13779926.19	13779926.48	13779926.78	0.0089	0.0027		
Earth	33022-01-05 16:48 G	13782102.11	13782102.20	13782102.28	0.0090	0.0084		
Moon	33022-01-05 18:00 G	13782102.24	13782102.25	13782102.33	0.0090	0.0089	*	
Moon	33023-01-08 03:50 G	13782469.50	13782469.66	13782469.85	0.0090	0.0065		
Earth	33023-01-08 05:17 G	13782469.57	13782469.72	13782469.90	0.0090	0.0069	*	

Moon	33024-01-10 17:31 G	13782837.05	13782837.23	13782837.46	0.0090	0.0058
Earth	33024-01-10 18:14 G	13782837.06	13782837.26	13782837.47	0.0090	0.0053 *
Earth	33025-01-12 06:29 G	13783204.56	13783204.77	13783205.02	0.0090	0.0038
Moon	33025-01-12 07:55 G	13783204.62	13783204.83	13783205.08	0.0090	0.0034 *
Moon	33026-01-14 17:31 G	13783571.98	13783572.23	13783572.49	0.0090	0.0026
Earth	33026-01-14 19:26 G	13783572.07	13783572.31	13783572.57	0.0090	0.0022 *
Earth	33027-01-17 08:24 G	13783939.60	13783939.85	13783940.11	0.0090	0.0006
Moon	33027-01-17 11:45 G	13783939.74	13783939.99	13783940.24	0.0090	0.0001 *
Moon	33028-01-19 17:45 G	13784306.98	13784307.24	13784307.50	0.0090	0.0006
Earth	33028-01-19 21:07 G	13784307.13	13784307.38	13784307.64	0.0090	0.0010 *
Earth	33029-01-21 09:50 G	13784674.67	13784674.91	13784675.16	0.0090	0.0026
Moon	33029-01-21 13:12 G	13784674.82	13784675.05	13784675.31	0.0090	0.0030 *
Moon	33030-01-23 19:26 G	13785042.09	13785042.31	13785042.55	0.0090	0.0038
Earth	33030-01-23 22:33 G	13785042.23	13785042.44	13785042.68	0.0090	0.0042 *
Earth	33031-01-26 11:17 G	13785409.79	13785409.97	13785410.19	0.0090	0.0058
Moon	33031-01-26 13:41 G	13785409.90	13785410.07	13785410.28	0.0090	0.0061 *
Moon	33032-01-28 22:48 G	13785777.31	13785777.45	13785777.62	0.0090	0.0070
Earth	33032-01-29 00:43 G	13785777.39	13785777.53	13785777.68	0.0090	0.0073 *
Earth	33033-01-30 13:12 G	13786145.04	13786145.05	13786145.11	0.0090	0.0089
Venus	33057-07-15 01:55 G	13795076.54	13795076.58	13795076.68	0.0089	0.0085
Venus	33058-02-25 15:36 G	13795302.01	13795302.15	13795302.30	0.0089	0.0066
Venus	33058-10-09 04:33 G	13795527.52	13795527.69	13795527.88	0.0089	0.0049
Venus	33059-05-22 17:31 G	13795753.04	13795753.23	13795753.45	0.0089	0.0032
Venus	33060-01-03 06:57 G	13795978.58	13795978.79	13795979.01	0.0089	0.0014
Venus	33060-08-15 20:09 G	13796204.12	13796204.34	13796204.56	0.0089	0.0003
Venus	33061-03-29 09:07 G	13796429.66	13796429.88	13796430.09	0.0089	0.0020
Venus	33061-11-09 21:36 G	13796655.22	13796655.40	13796655.62	0.0089	0.0038
Venus	33062-06-23 10:33 G	13796880.79	13796880.94	13796881.13	0.0089	0.0055
Venus	33063-02-03 23:45 G	13797106.38	13797106.49	13797106.63	0.0089	0.0072
Mercury	33076-07-15 13:41 G	13802017.05	13802017.07	13802017.11	0.0088	0.0086

Mercury	33076-10-11 14:53 G	13802105.08	13802105.12	13802105.20	0.0088	0.0080
Mercury	33077-01-07 16:19 G	13802193.12	13802193.18	13802193.27	0.0088	0.0073
Mercury	33077-04-05 18:00 G	13802281.16	13802281.25	13802281.34	0.0088	0.0065
Mercury	33077-07-02 19:26 G	13802369.21	13802369.31	13802369.41	0.0088	0.0058
Mercury	33077-09-28 20:38 G	13802457.26	13802457.36	13802457.48	0.0088	0.0051
Mercury	33077-12-25 22:05 G	13802545.31	13802545.42	13802545.54	0.0088	0.0043
Mercury	33078-03-23 23:17 G	13802633.36	13802633.47	13802633.60	0.0088	0.0037
Mercury	33078-06-20 00:43 G	13802721.41	13802721.53	13802721.67	0.0088	0.0029
Mercury	33078-09-16 02:09 G	13802809.46	13802809.59	13802809.73	0.0088	0.0022
Mercury	33078-12-13 03:36 G	13802897.52	13802897.65	13802897.79	0.0088	0.0015
Mercury	33079-03-11 05:02 G	13802985.58	13802985.71	13802985.85	0.0088	0.0008
Mercury	33079-06-07 06:29 G	13803073.63	13803073.77	13803073.91	0.0088	0.0001
Mercury	33079-09-03 07:55 G	13803161.69	13803161.83	13803161.97	0.0088	0.0007
Mercury	33079-11-30 09:21 G	13803249.75	13803249.89	13803250.02	0.0088	0.0015
Mercury	33080-02-26 10:33 G	13803337.82	13803337.94	13803338.08	0.0088	0.0023
Mercury	33080-05-24 12:00 G	13803425.88	13803426.00	13803426.14	0.0088	0.0030
Mercury	33080-08-20 13:41 G	13803513.94	13803514.07	13803514.19	0.0088	0.0037
Mercury	33080-11-16 14:53 G	13803602.01	13803602.12	13803602.25	0.0088	0.0044
Mercury	33081-02-12 16:19 G	13803690.08	13803690.18	13803690.30	0.0088	0.0051
Mercury	33081-05-11 18:00 G	13803778.15	13803778.25	13803778.35	0.0088	0.0059
Mercury	33081-08-07 19:12 G	13803866.22	13803866.30	13803866.40	0.0088	0.0066
Mercury	33081-11-03 20:38 G	13803954.29	13803954.36	13803954.44	0.0088	0.0074
Mercury	33082-01-30 22:05 G	13804042.38	13804042.42	13804042.48	0.0088	0.0081
Mars	33095-11-06 04:19 G	13809069.40	13809069.68	13809069.99	0.0088	0.0032
Mars	33097-10-01 00:14 G	13809764.23	13809764.51	13809764.82	0.0088	0.0034
Moon	33103-07-08 18:57 G	13811870.25	13811870.29	13811870.39	0.0088	0.0085
Moon	33104-07-10 00:57 G	13812237.45	13812237.54	13812237.66	0.0088	0.0079
Earth	33104-07-10 02:24 G	13812237.50	13812237.60	13812237.77	0.0088	0.0075 *
Earth	33105-07-12 13:12 G	13812604.88	13812605.05	13812605.26	0.0088	0.0060
Moon	33105-07-12 13:41 G	13812604.89	13812605.07	13812605.30	0.0088	0.0056 *

Earth	33106-07-14 23:45 G	13812972.29	13812972.49	13812972.73	0.0088	0.0045
Moon	33106-07-15 00:29 G	13812972.31	13812972.52	13812972.72	0.0088	0.0049 *
Moon	33107-07-17 08:24 G	13813339.61	13813339.85	13813340.12	0.0088	0.0026
Earth	33107-07-17 10:48 G	13813339.71	13813339.95	13813340.19	0.0088	0.0030 *
Earth	33108-07-18 21:21 G	13813707.14	13813707.39	13813707.64	0.0088	0.0015
Moon	33108-07-19 00:00 G	13813707.26	13813707.50	13813707.75	0.0088	0.0020 *
Moon	33109-07-21 04:33 G	13814074.43	13814074.69	13814074.96	0.0088	0.0004
Earth	33109-07-21 07:55 G	13814074.57	13814074.83	13814075.09	0.0088	0.0001 *
Earth	33110-07-23 18:14 G	13814442.01	13814442.26	13814442.52	0.0088	0.0015
Moon	33110-07-23 22:05 G	13814442.17	13814442.42	13814442.68	0.0088	0.0010 *
Moon	33111-07-26 01:41 G	13814809.35	13814809.57	13814809.82	0.0088	0.0034
Earth	33111-07-26 04:33 G	13814809.47	13814809.69	13814809.95	0.0088	0.0030 *
Earth	33112-07-27 14:53 G	13815176.92	13815177.12	13815177.37	0.0088	0.0045
Moon	33112-07-27 18:00 G	13815177.03	13815177.25	13815177.50	0.0088	0.0040 *
Moon	33113-07-30 00:00 G	13815544.35	13815544.50	13815544.69	0.0088	0.0064
Earth	33113-07-30 01:41 G	13815544.39	13815544.57	13815544.77	0.0088	0.0059 *
Moon	33114-08-01 11:31 G	13815911.85	13815911.98	13815912.17	0.0088	0.0070
Earth	33114-08-01 11:45 G	13815911.87	13815911.99	13815912.14	0.0088	0.0074 *
Venus	33140-11-24 07:26 G	13825523.74	13825523.81	13825523.90	0.0088	0.0082
Venus	33141-07-07 20:09 G	13825749.21	13825749.34	13825749.51	0.0088	0.0065
Venus	33142-02-18 09:07 G	13825974.71	13825974.88	13825975.08	0.0088	0.0049
Venus	33142-10-01 22:05 G	13826200.23	13826200.42	13826200.64	0.0088	0.0032
Venus	33143-05-15 11:02 G	13826425.75	13826425.96	13826426.19	0.0088	0.0015
Venus	33143-12-27 00:14 G	13826651.29	13826651.51	13826651.73	0.0088	0.0003
Venus	33144-08-08 12:57 G	13826876.84	13826877.04	13826877.27	0.0088	0.0021
Venus	33145-03-22 01:55 G	13827102.39	13827102.58	13827102.79	0.0088	0.0037
Venus	33145-11-02 14:38 G	13827327.96	13827328.11	13827328.31	0.0088	0.0055
Venus	33146-06-16 03:36 G	13827553.55	13827553.65	13827553.81	0.0088	0.0072
Venus	33147-01-27 16:48 G	13827779.20	13827779.20	13827779.24	0.0088	0.0088
Mercury	33160-12-23 06:00 G	13832857.68	13832857.75	13832857.82	0.0089	0.0081

Mercury	33161-03-21 09:07 G	13832945.78	13832945.88	13832946.00	0.0089	0.0071
Mercury	33161-06-17 12:14 G	13833033.89	13833034.01	13833034.17	0.0089	0.0061
Mercury	33161-09-13 16:05 G	13833122.02	13833122.17	13833122.32	0.0089	0.0050
Mercury	33161-12-10 19:12 G	13833210.14	13833210.30	13833210.48	0.0089	0.0040
Mercury	33162-03-08 22:33 G	13833298.27	13833298.44	13833298.63	0.0089	0.0030
Mercury	33162-06-05 01:55 G	13833386.40	13833386.58	13833386.77	0.0089	0.0020
Mercury	33162-09-01 05:17 G	13833474.54	13833474.72	13833474.91	0.0089	0.0010
Mercury	33162-11-28 08:38 G	13833562.68	13833562.86	13833563.05	0.0089	0.0002
Mercury	33163-02-24 12:00 G	13833650.81	13833651.00	13833651.18	0.0089	0.0011
Mercury	33163-05-23 15:07 G	13833738.96	13833739.13	13833739.32	0.0089	0.0021
Mercury	33163-08-19 18:29 G	13833827.10	13833827.27	13833827.45	0.0089	0.0031
Mercury	33163-11-15 21:50 G	13833915.24	13833915.41	13833915.57	0.0089	0.0041
Mercury	33164-02-12 00:57 G	13834003.39	13834003.54	13834003.69	0.0089	0.0051
Mercury	33164-05-10 04:05 G	13834091.54	13834091.67	13834091.81	0.0089	0.0061
Mercury	33164-08-06 07:26 G	13834179.70	13834179.81	13834179.92	0.0089	0.0071
Mercury	33164-11-02 10:33 G	13834267.87	13834267.94	13834268.02	0.0089	0.0081
Mars	33177-10-11 12:43 G	13838993.84	13838994.03	13838994.27	0.0089	0.0064
Mars	33179-09-06 07:55 G	13839688.52	13839688.83	13839689.14	0.0089	0.0004
Mars	33181-07-31 23:45 G	13840383.34	13840383.49	13840383.71	0.0089	0.0072
Moon	33187-01-08 07:41 G	13842369.71	13842369.82	13842369.95	0.0090	0.0079
Earth	33187-01-08 08:24 G	13842369.74	13842369.85	13842369.98	0.0090	0.0079 *
Earth	33188-01-10 20:38 G	13842737.21	13842737.36	13842737.57	0.0090	0.0064
Moon	33188-01-10 23:02 G	13842737.30	13842737.46	13842737.65	0.0090	0.0063 *
Moon	33189-01-12 06:29 G	13843104.57	13843104.77	13843105.02	0.0090	0.0048
Earth	33189-01-12 09:50 G	13843104.71	13843104.91	13843105.15	0.0090	0.0048 *
Earth	33190-01-14 22:33 G	13843472.22	13843472.44	13843472.70	0.0090	0.0032
Moon	33190-01-15 01:55 G	13843472.35	13843472.58	13843472.83	0.0090	0.0031 *
Moon	33191-01-17 07:41 G	13843839.58	13843839.82	13843840.08	0.0090	0.0017
Earth	33191-01-17 11:31 G	13843839.74	13843839.98	13843840.24	0.0090	0.0016 *
Earth	33192-01-20 00:29 G	13844207.26	13844207.52	13844207.77	0.0090	0.0001

Moon	33192-01-20 03:36 G	13844207.39	13844207.65	13844207.91	0.0090	0.0001	*
Moon	33193-01-21 10:19 G	13844574.69	13844574.93	13844575.19	0.0090	0.0015	
Earth	33193-01-21 12:57 G	13844574.80	13844575.04	13844575.30	0.0090	0.0017	*
Earth	33194-01-24 01:41 G	13844942.34	13844942.57	13844942.82	0.0090	0.0033	
Moon	33194-01-24 03:50 G	13844942.41	13844942.66	13844942.91	0.0090	0.0034	*
Moon	33195-01-26 14:09 G	13845309.90	13845310.09	13845310.32	0.0090	0.0048	
Earth	33195-01-26 14:24 G	13845309.90	13845310.10	13845310.34	0.0090	0.0049	*
Moon	33196-01-29 02:53 G	13845677.45	13845677.62	13845677.81	0.0090	0.0066	
Earth	33196-01-29 02:53 G	13845677.47	13845677.62	13845677.83	0.0090	0.0065	*
Earth	33197-01-30 16:19 G	13846045.08	13846045.18	13846045.31	0.0090	0.0080	
Moon	33197-01-30 18:29 G	13846045.15	13846045.27	13846045.39	0.0090	0.0078	*
Venus	33222-05-30 22:48 G	13855296.35	13855296.45	13855296.58	0.0089	0.0076	
Venus	33223-01-11 12:00 G	13855521.85	13855522.00	13855522.18	0.0089	0.0058	
Venus	33223-08-25 01:12 G	13855747.37	13855747.55	13855747.76	0.0089	0.0041	
Venus	33224-04-06 14:24 G	13855972.89	13855973.10	13855973.32	0.0089	0.0023	
Venus	33224-11-18 03:36 G	13856198.43	13856198.65	13856198.87	0.0089	0.0006	
Venus	33225-07-01 16:33 G	13856423.98	13856424.19	13856424.41	0.0089	0.0011	
Venus	33226-02-12 05:31 G	13856649.54	13856649.73	13856649.95	0.0089	0.0029	
Venus	33226-09-25 18:29 G	13856875.10	13856875.27	13856875.47	0.0089	0.0046	
Venus	33227-05-09 07:26 G	13857100.67	13857100.81	13857100.98	0.0089	0.0063	
Venus	33227-12-20 20:38 G	13857326.28	13857326.36	13857326.46	0.0089	0.0080	
Mercury	33241-04-12 12:43 G	13862188.01	13862188.03	13862188.07	0.0088	0.0086	
Mercury	33241-07-09 14:09 G	13862276.04	13862276.09	13862276.16	0.0088	0.0078	
Mercury	33241-10-05 15:21 G	13862364.08	13862364.14	13862364.23	0.0088	0.0072	
Mercury	33242-01-01 17:02 G	13862452.12	13862452.21	13862452.30	0.0088	0.0064	
Mercury	33242-03-30 18:29 G	13862540.17	13862540.27	13862540.37	0.0088	0.0057	
Mercury	33242-06-26 19:41 G	13862628.22	13862628.32	13862628.44	0.0088	0.0050	
Mercury	33242-09-22 21:07 G	13862716.27	13862716.38	13862716.50	0.0088	0.0042	
Mercury	33242-12-19 22:19 G	13862804.32	13862804.43	13862804.57	0.0088	0.0036	
Mercury	33243-03-17 23:45 G	13862892.37	13862892.49	13862892.63	0.0088	0.0029	

Mercury	33243-06-14 01:26 G	13862980.43	13862980.56	13862980.69	0.0088	0.0021
Mercury	33243-09-10 02:53 G	13863068.48	13863068.62	13863068.75	0.0088	0.0014
Mercury	33243-12-07 04:05 G	13863156.54	13863156.67	13863156.81	0.0088	0.0007
Mercury	33244-03-04 05:31 G	13863244.60	13863244.73	13863244.87	0.0088	0.0002
Mercury	33244-05-31 06:57 G	13863332.66	13863332.79	13863332.93	0.0088	0.0008
Mercury	33244-08-27 08:24 G	13863420.72	13863420.85	13863420.98	0.0088	0.0016
Mercury	33244-11-23 09:36 G	13863508.78	13863508.90	13863509.04	0.0088	0.0024
Mercury	33245-02-19 11:02 G	13863596.84	13863596.96	13863597.10	0.0088	0.0031
Mercury	33245-05-18 12:43 G	13863684.90	13863685.03	13863685.15	0.0088	0.0038
Mercury	33245-08-14 13:55 G	13863772.97	13863773.08	13863773.21	0.0088	0.0045
Mercury	33245-11-10 15:21 G	13863861.04	13863861.14	13863861.26	0.0088	0.0052
Mercury	33246-02-06 17:02 G	13863949.11	13863949.21	13863949.31	0.0088	0.0060
Mercury	33246-05-05 18:14 G	13864037.18	13864037.26	13864037.35	0.0088	0.0067
Mercury	33246-08-01 19:41 G	13864125.26	13864125.32	13864125.40	0.0088	0.0075
Mercury	33246-10-28 20:53 G	13864213.34	13864213.37	13864213.44	0.0088	0.0083
Mars	33259-06-21 12:57 G	13868831.80	13868832.04	13868832.31	0.0088	0.0052
Mars	33261-05-16 07:26 G	13869526.50	13869526.81	13869527.13	0.0088	0.0013
Mars	33263-04-11 04:19 G	13870221.55	13870221.68	13870221.82	0.0088	0.0079
Earth	33268-07-09 09:21 G	13872137.85	13872137.89	13872138.00	0.0088	0.0084
Moon	33268-07-09 10:05 G	13872137.87	13872137.92	13872137.99	0.0088	0.0085 *
Earth	33269-07-11 20:09 G	13872505.20	13872505.34	13872505.52	0.0088	0.0069
Moon	33269-07-11 21:36 G	13872505.26	13872505.40	13872505.58	0.0088	0.0067 *
Moon	33270-07-14 04:33 G	13872872.51	13872872.69	13872872.91	0.0088	0.0056
Earth	33270-07-14 06:57 G	13872872.60	13872872.79	13872873.01	0.0088	0.0054 *
Earth	33271-07-16 17:31 G	13873240.01	13873240.23	13873240.47	0.0088	0.0039
Moon	33271-07-16 20:38 G	13873240.15	13873240.36	13873240.61	0.0088	0.0038 *
Moon	33272-07-18 00:29 G	13873607.29	13873607.52	13873607.78	0.0088	0.0027
Earth	33272-07-18 04:19 G	13873607.44	13873607.68	13873607.93	0.0088	0.0024 *
Earth	33273-07-20 14:53 G	13873974.87	13873975.12	13873975.38	0.0088	0.0009
Moon	33273-07-20 18:29 G	13873975.01	13873975.27	13873975.53	0.0088	0.0008 *



Moon	33274-07-22 22:19 G	13874342.18	13874342.43	13874342.69	0.0088	0.0005
Earth	33274-07-23 01:26 G	13874342.31	13874342.56	13874342.82	0.0088	0.0007 *
Earth	33275-07-25 11:45 G	13874709.76	13874709.99	13874710.26	0.0088	0.0022
Moon	33275-07-25 13:55 G	13874709.83	13874710.08	13874710.34	0.0088	0.0023 *
Moon	33276-07-26 21:21 G	13875077.18	13875077.39	13875077.63	0.0088	0.0036
Earth	33276-07-26 22:19 G	13875077.22	13875077.43	13875077.69	0.0088	0.0037 *
Moon	33277-07-29 08:24 G	13875444.66	13875444.85	13875445.08	0.0088	0.0053
Earth	33277-07-29 08:38 G	13875444.68	13875444.86	13875445.09	0.0088	0.0052 *
Earth	33278-07-31 19:41 G	13875812.15	13875812.32	13875812.49	0.0088	0.0066
Moon	33278-07-31 21:07 G	13875812.23	13875812.38	13875812.57	0.0088	0.0065 *
Moon	33279-08-03 03:21 G	13876179.57	13876179.64	13876179.75	0.0088	0.0082
Earth	33279-08-03 05:45 G	13876179.66	13876179.74	13876179.86	0.0088	0.0081 *
Venus	33305-10-10 05:02 G	13885743.60	13885743.71	13885743.85	0.0088	0.0072
Venus	33306-05-23 18:00 G	13885969.09	13885969.25	13885969.43	0.0088	0.0056
Venus	33307-01-04 07:12 G	13886194.60	13886194.80	13886195.00	0.0088	0.0039
Venus	33307-08-17 19:55 G	13886420.13	13886420.33	13886420.56	0.0088	0.0022
Venus	33308-03-30 09:07 G	13886645.66	13886645.88	13886646.10	0.0088	0.0005
Venus	33308-11-10 21:50 G	13886871.20	13886871.41	13886871.64	0.0088	0.0012
Venus	33309-06-24 10:48 G	13887096.75	13887096.95	13887097.17	0.0088	0.0029
Venus	33310-02-04 23:31 G	13887322.31	13887322.48	13887322.69	0.0088	0.0046
Venus	33310-09-18 12:57 G	13887547.89	13887548.04	13887548.19	0.0088	0.0063
Venus	33311-05-02 01:41 G	13887773.49	13887773.57	13887773.67	0.0088	0.0080
Mercury	33325-09-20 03:07 G	13893028.56	13893028.63	13893028.72	0.0089	0.0080
Mercury	33325-12-17 06:29 G	13893116.67	13893116.77	13893116.90	0.0089	0.0070
Mercury	33326-03-15 09:36 G	13893204.78	13893204.90	13893205.06	0.0089	0.0060
Mercury	33326-06-11 13:26 G	13893292.91	13893293.06	13893293.22	0.0089	0.0049
Mercury	33326-09-07 16:33 G	13893381.03	13893381.19	13893381.37	0.0089	0.0039
Mercury	33326-12-04 19:55 G	13893469.16	13893469.33	13893469.52	0.0089	0.0029
Mercury	33327-03-02 23:31 G	13893557.30	13893557.48	13893557.66	0.0089	0.0018
Mercury	33327-05-30 02:53 G	13893645.43	13893645.62	13893645.80	0.0089	0.0008

Mercury	33327-08-26 06:00 G	13893733.57	13893733.75	13893733.94	0.0089	0.0003
Mercury	33327-11-22 09:21 G	13893821.71	13893821.89	13893822.08	0.0089	0.0012
Mercury	33328-02-18 12:29 G	13893909.85	13893910.02	13893910.21	0.0089	0.0023
Mercury	33328-05-16 15:50 G	13893997.99	13893998.16	13893998.34	0.0089	0.0033
Mercury	33328-08-12 18:57 G	13894086.14	13894086.29	13894086.47	0.0089	0.0043
Mercury	33328-11-08 22:05 G	13894174.29	13894174.42	13894174.59	0.0089	0.0053
Mercury	33329-02-05 01:26 G	13894262.44	13894262.56	13894262.70	0.0089	0.0063
Mercury	33329-05-04 04:33 G	13894350.60	13894350.69	13894350.81	0.0089	0.0073
Mercury	33329-07-31 07:41 G	13894438.78	13894438.82	13894438.91	0.0089	0.0083
Mars	33341-05-26 18:43 G	13898756.24	13898756.28	13898756.40	0.0089	0.0087
Mars	33343-04-21 16:33 G	13899450.90	13899451.19	13899451.51	0.0089	0.0018
Mars	33345-03-16 10:05 G	13900145.69	13900145.92	13900146.21	0.0089	0.0051
Earth	33351-01-08 12:29 G	13902270.01	13902270.02	13902270.07	0.0090	0.0089
Moon	33352-01-10 21:50 G	13902637.27	13902637.41	13902637.60	0.0090	0.0069
Earth	33352-01-11 00:57 G	13902637.43	13902637.54	13902637.72	0.0090	0.0074 *
Earth	33353-01-12 13:55 G	13903004.91	13903005.08	13903005.30	0.0090	0.0058
Moon	33353-01-12 18:00 G	13903005.07	13903005.25	13903005.44	0.0090	0.0062 *
Moon	33354-01-14 23:45 G	13903372.27	13903372.49	13903372.74	0.0090	0.0037
Earth	33354-01-15 02:53 G	13903372.41	13903372.62	13903372.87	0.0090	0.0042 *
Earth	33355-01-17 16:05 G	13903739.92	13903740.17	13903740.42	0.0090	0.0025
Moon	33355-01-17 18:57 G	13903740.05	13903740.29	13903740.55	0.0090	0.0030 *
Moon	33356-01-20 03:07 G	13904107.38	13904107.63	13904107.88	0.0090	0.0004
Earth	33356-01-20 04:48 G	13904107.44	13904107.70	13904107.96	0.0090	0.0009 *
Earth	33357-01-21 17:31 G	13904474.97	13904475.23	13904475.49	0.0090	0.0007
Moon	33357-01-21 18:29 G	13904475.00	13904475.27	13904475.54	0.0090	0.0003 *
Earth	33358-01-24 06:00 G	13904842.51	13904842.75	13904843.01	0.0090	0.0024
Moon	33358-01-24 06:14 G	13904842.53	13904842.76	13904843.00	0.0090	0.0028 *
Moon	33359-01-26 16:48 G	13905209.97	13905210.20	13905210.46	0.0090	0.0035
Earth	33359-01-26 18:29 G	13905210.06	13905210.27	13905210.52	0.0090	0.0040 *
Earth	33360-01-29 07:12 G	13905577.62	13905577.80	13905578.02	0.0090	0.0056

Moon	33360-01-29 09:50 G	13905577.73	13905577.91	13905578.11	0.0090	0.0060 *
Moon	33361-01-30 16:48 G	13905945.05	13905945.20	13905945.40	0.0090	0.0067
Earth	33361-01-30 20:09 G	13905945.21	13905945.34	13905945.51	0.0090	0.0072 *
Earth	33362-02-02 08:38 G	13906312.83	13906312.86	13906312.94	0.0090	0.0088
Venus	33386-09-02 07:41 G	13915290.74	13915290.82	13915290.89	0.0089	0.0084
Venus	33387-04-15 20:24 G	13915516.21	13915516.35	13915516.50	0.0089	0.0067
Venus	33387-11-27 09:21 G	13915741.72	13915741.89	13915742.08	0.0089	0.0049
Venus	33388-07-09 22:19 G	13915967.24	13915967.43	13915967.65	0.0089	0.0032
Venus	33389-02-20 11:31 G	13916192.78	13916192.98	13916193.21	0.0089	0.0016
Venus	33389-10-04 00:57 G	13916418.32	13916418.54	13916418.76	0.0089	0.0003
Venus	33390-05-17 13:41 G	13916643.87	13916644.07	13916644.30	0.0089	0.0021
Venus	33390-12-29 02:53 G	13916869.43	13916869.62	13916869.83	0.0089	0.0037
Venus	33391-08-11 16:05 G	13917095.00	13917095.17	13917095.35	0.0089	0.0054
Venus	33392-03-24 04:33 G	13917320.59	13917320.69	13917320.84	0.0089	0.0072
Venus	33392-11-04 17:45 G	13917546.24	13917546.24	13917546.27	0.0089	0.0089
Mercury	33406-01-09 11:45 G	13922358.97	13922358.99	13922359.04	0.0088	0.0085
Mercury	33406-04-07 13:12 G	13922447.00	13922447.05	13922447.12	0.0088	0.0077
Mercury	33406-07-04 14:24 G	13922535.04	13922535.10	13922535.20	0.0088	0.0071
Mercury	33406-09-30 16:05 G	13922623.08	13922623.17	13922623.27	0.0088	0.0063
Mercury	33406-12-27 17:31 G	13922711.13	13922711.23	13922711.33	0.0088	0.0056
Mercury	33407-03-25 18:43 G	13922799.18	13922799.28	13922799.40	0.0088	0.0049
Mercury	33407-06-21 20:09 G	13922887.23	13922887.34	13922887.47	0.0088	0.0041
Mercury	33407-09-17 21:36 G	13922975.28	13922975.40	13922975.53	0.0088	0.0034
Mercury	33407-12-14 23:02 G	13923063.33	13923063.46	13923063.59	0.0088	0.0027
Mercury	33408-03-12 00:29 G	13923151.39	13923151.52	13923151.65	0.0088	0.0020
Mercury	33408-06-08 01:55 G	13923239.44	13923239.58	13923239.71	0.0088	0.0013
Mercury	33408-09-04 03:21 G	13923327.50	13923327.64	13923327.77	0.0088	0.0006
Mercury	33408-12-01 04:33 G	13923415.56	13923415.69	13923415.83	0.0088	0.0004
Mercury	33409-02-27 06:00 G	13923503.62	13923503.75	13923503.89	0.0088	0.0010
Mercury	33409-05-26 07:26 G	13923591.68	13923591.81	13923591.95	0.0088	0.0017

Mercury	33409-08-22 08:53 G	13923679.74	13923679.87	13923680.00	0.0088	0.0024
Mercury	33409-11-18 10:19 G	13923767.80	13923767.93	13923768.06	0.0088	0.0031
Mercury	33410-02-14 11:45 G	13923855.87	13923855.99	13923856.11	0.0088	0.0039
Mercury	33410-05-13 12:57 G	13923943.93	13923944.04	13923944.16	0.0088	0.0046
Mercury	33410-08-09 14:24 G	13924032.00	13924032.10	13924032.22	0.0088	0.0054
Mercury	33410-11-05 15:50 G	13924120.07	13924120.16	13924120.27	0.0088	0.0061
Mercury	33411-02-01 17:17 G	13924208.14	13924208.22	13924208.31	0.0088	0.0068
Mercury	33411-04-30 18:43 G	13924296.22	13924296.28	13924296.36	0.0088	0.0076
Mercury	33411-07-27 19:55 G	13924384.30	13924384.33	13924384.39	0.0088	0.0084
Mars	33423-02-05 02:09 G	13928594.42	13928594.59	13928594.78	0.0088	0.0071
Mars	33424-12-30 17:17 G	13929288.91	13929289.22	13929289.54	0.0088	0.0007
Mars	33426-11-25 11:17 G	13929983.76	13929983.97	13929984.23	0.0088	0.0059
Jupiter	33428-10-10 09:36 G	13930668.47	13930668.90	13930669.40	0.0088	0.0048
Moon	33433-07-13 00:29 G	13932405.44	13932405.52	13932405.63	0.0088	0.0081
Earth	33433-07-13 03:36 G	13932405.55	13932405.65	13932405.79	0.0088	0.0078 *
Earth	33434-07-15 14:09 G	13932772.93	13932773.09	13932773.29	0.0088	0.0063
Moon	33434-07-15 17:17 G	13932773.06	13932773.22	13932773.43	0.0088	0.0060 *
Moon	33435-07-17 21:07 G	13933140.19	13933140.38	13933140.60	0.0088	0.0052
Earth	33435-07-18 00:43 G	13933140.34	13933140.53	13933140.77	0.0088	0.0048 *
Earth	33436-07-19 11:17 G	13933507.75	13933507.97	13933508.23	0.0088	0.0033
Moon	33436-07-19 14:38 G	13933507.88	13933508.11	13933508.37	0.0088	0.0029 *
Moon	33437-07-21 19:41 G	13933875.08	13933875.32	13933875.57	0.0088	0.0021
Earth	33437-07-21 22:05 G	13933875.17	13933875.42	13933875.68	0.0088	0.0017 *
Earth	33438-07-24 08:38 G	13934242.61	13934242.86	13934243.12	0.0088	0.0003
Moon	33438-07-24 10:33 G	13934242.67	13934242.94	13934243.21	0.0088	0.0002 *
Earth	33439-07-26 19:26 G	13934610.06	13934610.31	13934610.57	0.0088	0.0013
Moon	33439-07-26 19:26 G	13934610.07	13934610.31	13934610.56	0.0088	0.0010 *
Moon	33440-07-28 04:33 G	13934977.45	13934977.69	13934977.95	0.0088	0.0032
Earth	33440-07-28 06:00 G	13934977.50	13934977.75	13934977.99	0.0088	0.0028 *
Earth	33441-07-30 16:05 G	13935344.97	13935345.17	13935345.41	0.0088	0.0044

Moon	33441-07-30 18:00 G	13935345.05	13935345.25	13935345.50	0.0088	0.0040 *
Moon	33442-08-01 23:45 G	13935712.31	13935712.49	13935712.68	0.0088	0.0062
Earth	33442-08-02 02:38 G	13935712.45	13935712.61	13935712.83	0.0088	0.0059 *
Earth	33443-08-04 13:12 G	13936079.94	13936080.05	13936080.21	0.0088	0.0074
Moon	33443-08-04 16:33 G	13936080.06	13936080.19	13936080.37	0.0088	0.0070 *
Venus	33470-01-12 14:09 G	13945738.01	13945738.09	13945738.20	0.0088	0.0080
Venus	33470-08-26 03:21 G	13945963.49	13945963.64	13945963.80	0.0088	0.0063
Venus	33471-04-08 16:05 G	13946189.00	13946189.17	13946189.37	0.0088	0.0046
Venus	33471-11-20 05:02 G	13946414.51	13946414.71	13946414.93	0.0088	0.0029
Venus	33472-07-02 18:14 G	13946640.04	13946640.26	13946640.48	0.0088	0.0012
Venus	33473-02-13 07:12 G	13946865.58	13946865.80	13946866.02	0.0088	0.0005
Venus	33473-09-26 19:55 G	13947091.12	13947091.33	13947091.55	0.0088	0.0022
Venus	33474-05-10 08:38 G	13947316.68	13947316.86	13947317.07	0.0088	0.0039
Venus	33474-12-21 21:21 G	13947542.24	13947542.39	13947542.58	0.0088	0.0056
Venus	33475-08-04 10:19 G	13947767.83	13947767.93	13947768.08	0.0088	0.0073
Mercury	33490-03-21 21:21 G	13953111.39	13953111.39	13953111.42	0.0089	0.0089
Mercury	33490-06-18 00:57 G	13953199.46	13953199.54	13953199.64	0.0089	0.0078
Mercury	33490-09-14 04:05 G	13953287.57	13953287.67	13953287.81	0.0089	0.0068
Mercury	33490-12-11 07:55 G	13953375.69	13953375.83	13953375.97	0.0089	0.0057
Mercury	33491-03-09 11:02 G	13953463.81	13953463.96	13953464.13	0.0089	0.0047
Mercury	33491-06-05 14:24 G	13953551.94	13953552.10	13953552.28	0.0089	0.0037
Mercury	33491-09-01 18:00 G	13953640.07	13953640.25	13953640.43	0.0089	0.0026
Mercury	33491-11-28 21:21 G	13953728.20	13953728.39	13953728.57	0.0089	0.0016
Mercury	33492-02-25 00:43 G	13953816.34	13953816.53	13953816.72	0.0089	0.0006
Mercury	33492-05-23 03:50 G	13953904.48	13953904.66	13953904.85	0.0089	0.0005
Mercury	33492-08-19 07:12 G	13953992.62	13953992.80	13953992.99	0.0089	0.0015
Mercury	33492-11-15 10:19 G	13954080.76	13954080.93	13954081.12	0.0089	0.0025
Mercury	33493-02-11 13:41 G	13954168.91	13954169.07	13954169.25	0.0089	0.0035
Mercury	33493-05-10 17:02 G	13954257.06	13954257.21	13954257.38	0.0089	0.0045
Mercury	33493-08-06 20:09 G	13954345.21	13954345.34	13954345.50	0.0089	0.0055

Mercury	33493-11-02 23:31 G	13954433.36	13954433.48	13954433.61	0.0089	0.0065
Mercury	33494-01-30 02:38 G	13954521.53	13954521.61	13954521.72	0.0089	0.0075
Mercury	33494-04-28 06:00 G	13954609.71	13954609.75	13954609.81	0.0089	0.0085
Mars	33506-12-06 00:29 G	13959213.26	13959213.52	13959213.82	0.0089	0.0040
Mars	33508-10-30 21:50 G	13959908.13	13959908.41	13959908.72	0.0089	0.0029
Earth	33516-01-12 06:29 G	13962537.68	13962537.77	13962537.87	0.0090	0.0083
Moon	33516-01-12 09:36 G	13962537.83	13962537.90	13962538.02	0.0090	0.0083 *
Moon	33517-01-13 16:05 G	13962905.02	13962905.17	13962905.34	0.0090	0.0069
Earth	33517-01-13 19:26 G	13962905.14	13962905.31	13962905.48	0.0090	0.0067 *
Earth	33518-01-16 08:09 G	13963272.63	13963272.84	13963273.05	0.0090	0.0051
Moon	33518-01-16 10:05 G	13963272.71	13963272.92	13963273.15	0.0090	0.0050 *
Moon	33519-01-18 19:12 G	13963640.08	13963640.30	13963640.54	0.0090	0.0036
Earth	33519-01-18 20:53 G	13963640.14	13963640.37	13963640.61	0.0090	0.0035 *
Moon	33520-01-21 09:36 G	13964007.65	13964007.90	13964008.17	0.0090	0.0018
Earth	33520-01-21 09:36 G	13964007.66	13964007.90	13964008.16	0.0090	0.0019 *
Earth	33521-01-22 22:48 G	13964375.19	13964375.45	13964375.71	0.0090	0.0002
Moon	33521-01-23 00:00 G	13964375.25	13964375.50	13964375.75	0.0090	0.0003 *
Moon	33522-01-25 09:07 G	13964742.63	13964742.88	13964743.15	0.0090	0.0015
Earth	33522-01-25 11:17 G	13964742.72	13964742.97	13964743.23	0.0090	0.0014 *
Earth	33523-01-28 00:00 G	13965110.27	13965110.50	13965110.75	0.0090	0.0031
Moon	33523-01-28 03:21 G	13965110.40	13965110.64	13965110.88	0.0090	0.0030 *
Moon	33524-01-30 09:07 G	13965477.68	13965477.88	13965478.12	0.0090	0.0048
Earth	33524-01-30 12:43 G	13965477.83	13965478.03	13965478.26	0.0090	0.0047 *
Earth	33525-02-01 01:41 G	13965845.39	13965845.57	13965845.75	0.0090	0.0063
Moon	33525-02-01 05:02 G	13965845.55	13965845.71	13965845.90	0.0090	0.0064 *
Moon	33526-02-03 10:48 G	13966212.86	13966212.95	13966213.09	0.0090	0.0080
Earth	33526-02-03 14:38 G	13966212.99	13966213.11	13966213.23	0.0090	0.0079 *
Venus	33551-07-20 04:48 G	13975510.60	13975510.70	13975510.84	0.0089	0.0075
Venus	33552-03-01 18:00 G	13975736.09	13975736.25	13975736.43	0.0089	0.0057
Venus	33552-10-13 06:57 G	13975961.61	13975961.79	13975962.00	0.0089	0.0040

Venus	33553-05-26 20:09 G	13976187.14	13976187.34	13976187.56	0.0089	0.0023
Venus	33554-01-07 09:21 G	13976412.68	13976412.89	13976413.12	0.0089	0.0006
Saturn	33554-06-13 16:05 G	13976569.69	13976570.17	13976570.75	0.0089	0.0058
Venus	33554-08-20 22:19 G	13976638.22	13976638.43	13976638.66	0.0089	0.0012
Venus	33555-04-03 11:17 G	13976863.78	13976863.97	13976864.19	0.0089	0.0029
Venus	33555-11-15 00:14 G	13977089.34	13977089.51	13977089.71	0.0089	0.0046
Venus	33556-06-27 13:26 G	13977314.92	13977315.06	13977315.22	0.0089	0.0063
Venus	33557-02-08 02:38 G	13977540.53	13977540.61	13977540.71	0.0089	0.0080
Mercury	33570-10-07 11:17 G	13982529.93	13982529.97	13982530.02	0.0089	0.0083
Mercury	33571-01-03 12:29 G	13982617.96	13982618.02	13982618.10	0.0089	0.0076
Mercury	33571-04-01 13:55 G	13982706.00	13982706.08	13982706.17	0.0088	0.0069
Mercury	33571-06-28 15:07 G	13982794.05	13982794.13	13982794.24	0.0088	0.0062
Mercury	33571-09-24 16:33 G	13982882.09	13982882.19	13982882.31	0.0088	0.0055
Mercury	33571-12-21 18:00 G	13982970.14	13982970.25	13982970.37	0.0088	0.0047
Mercury	33572-03-18 19:26 G	13983058.19	13983058.31	13983058.43	0.0088	0.0040
Mercury	33572-06-14 20:53 G	13983146.25	13983146.37	13983146.50	0.0088	0.0033
Mercury	33572-09-10 22:19 G	13983234.30	13983234.43	13983234.56	0.0088	0.0025
Mercury	33572-12-07 23:31 G	13983322.35	13983322.48	13983322.62	0.0088	0.0019
Mercury	33573-03-06 00:57 G	13983410.41	13983410.54	13983410.68	0.0088	0.0011
Mercury	33573-06-02 02:24 G	13983498.47	13983498.60	13983498.74	0.0088	0.0004
Mercury	33573-08-29 03:50 G	13983586.53	13983586.66	13983586.80	0.0088	0.0004
Mercury	33573-11-25 05:17 G	13983674.59	13983674.72	13983674.86	0.0088	0.0011
Mercury	33574-02-21 06:43 G	13983762.65	13983762.78	13983762.91	0.0088	0.0018
Mercury	33574-05-20 08:09 G	13983850.71	13983850.84	13983850.97	0.0088	0.0026
Mercury	33574-08-16 09:21 G	13983938.77	13983938.89	13983939.02	0.0088	0.0033
Mercury	33574-11-12 10:48 G	13984026.83	13984026.95	13984027.08	0.0088	0.0041
Mercury	33575-02-08 12:14 G	13984114.90	13984115.01	13984115.13	0.0088	0.0048
Mercury	33575-05-07 13:41 G	13984202.97	13984203.07	13984203.18	0.0088	0.0055
Mercury	33575-08-03 15:07 G	13984291.04	13984291.13	13984291.23	0.0088	0.0063
Mercury	33575-10-30 16:19 G	13984379.11	13984379.18	13984379.28	0.0088	0.0070

Mercury	33576-01-26 17:45 G	13984467.19	13984467.24	13984467.32	0.0088	0.0078
Mercury	33576-04-23 19:26 G	13984555.28	13984555.31	13984555.35	0.0088	0.0085
Mars	33588-08-15 06:29 G	13989051.48	13989051.77	13989052.08	0.0088	0.0026
Mars	33590-07-10 22:48 G	13989746.18	13989746.45	13989746.75	0.0088	0.0039
Jupiter	33594-12-09 16:05 G	13991358.83	13991359.17	13991359.55	0.0088	0.0066
Earth	33597-07-13 11:31 G	13992305.97	13992305.98	13992306.03	0.0088	0.0087
Moon	33598-07-15 18:57 G	13992673.16	13992673.29	13992673.47	0.0088	0.0069
Earth	33598-07-15 22:19 G	13992673.31	13992673.43	13992673.60	0.0088	0.0072 *
Earth	33599-07-18 08:53 G	13993040.70	13993040.87	13993041.09	0.0088	0.0057
Moon	33599-07-18 12:14 G	13993040.84	13993041.01	13993041.22	0.0088	0.0059 *
Moon	33600-07-19 18:00 G	13993408.03	13993408.25	13993408.48	0.0088	0.0038
Earth	33600-07-19 19:55 G	13993408.11	13993408.33	13993408.56	0.0088	0.0041 *
Earth	33601-07-22 06:29 G	13993775.53	13993775.77	13993776.02	0.0088	0.0026
Moon	33601-07-22 06:57 G	13993775.55	13993775.79	13993776.06	0.0088	0.0029 *
Earth	33602-07-24 17:02 G	13994142.96	13994143.21	13994143.48	0.0088	0.0011
Moon	33602-07-24 17:31 G	13994142.98	13994143.23	13994143.48	0.0088	0.0008 *
Moon	33603-07-27 01:55 G	13994510.31	13994510.58	13994510.84	0.0088	0.0002
Earth	33603-07-27 03:50 G	13994510.40	13994510.66	13994510.92	0.0088	0.0005 *
Earth	33604-07-28 13:55 G	13994877.84	13994878.08	13994878.35	0.0088	0.0021
Moon	33604-07-28 16:33 G	13994877.97	13994878.19	13994878.45	0.0088	0.0024 *
Moon	33605-07-30 21:36 G	13995245.16	13995245.40	13995245.64	0.0088	0.0033
Earth	33605-07-31 00:43 G	13995245.30	13995245.53	13995245.77	0.0088	0.0036 *
Earth	33606-08-02 11:17 G	13995612.77	13995612.97	13995613.19	0.0088	0.0051
Moon	33606-08-02 14:53 G	13995612.93	13995613.12	13995613.34	0.0088	0.0054 *
Moon	33607-08-04 18:29 G	13995980.12	13995980.27	13995980.46	0.0088	0.0064
Earth	33607-08-04 22:05 G	13995980.25	13995980.42	13995980.59	0.0088	0.0066 *
Earth	33608-08-06 07:41 G	13996347.76	13996347.82	13996347.95	0.0088	0.0082
Moon	33608-08-06 11:17 G	13996347.90	13996347.97	13996348.06	0.0088	0.0083 *
Venus	33634-04-16 23:45 G	14005732.47	14005732.49	14005732.56	0.0088	0.0086
Venus	33634-11-28 12:57 G	14005957.92	14005958.04	14005958.19	0.0088	0.0069



Venus	33635-07-12 02:09 G	14006183.42	14006183.59	14006183.77	0.0088	0.0053
Venus	33636-02-22 14:53 G	14006408.94	14006409.12	14006409.34	0.0088	0.0036
Venus	33636-10-05 04:05 G	14006634.46	14006634.67	14006634.89	0.0088	0.0019
Venus	33637-05-18 17:02 G	14006859.99	14006860.21	14006860.43	0.0088	0.0002
Venus	33637-12-30 06:00 G	14007085.53	14007085.75	14007085.97	0.0088	0.0015
Venus	33638-08-12 18:43 G	14007311.09	14007311.28	14007311.50	0.0088	0.0032
Venus	33639-03-26 07:26 G	14007536.65	14007536.81	14007537.02	0.0088	0.0049
Venus	33639-11-06 20:38 G	14007762.22	14007762.36	14007762.52	0.0088	0.0065
Venus	33640-06-19 09:21 G	14007987.82	14007987.89	14007987.99	0.0088	0.0082
Mercury	33654-12-17 19:12 G	14013282.28	14013282.30	14013282.37	0.0089	0.0086
Mercury	33655-03-15 23:02 G	14013370.37	14013370.46	14013370.56	0.0089	0.0075
Mercury	33655-06-12 02:09 G	14013458.48	14013458.59	14013458.73	0.0089	0.0065
Mercury	33655-09-08 05:31 G	14013546.60	14013546.73	14013546.89	0.0089	0.0055
Mercury	33655-12-05 09:07 G	14013634.72	14013634.88	14013635.05	0.0089	0.0044
Mercury	33656-03-02 12:29 G	14013722.85	14013723.02	14013723.20	0.0089	0.0034
Mercury	33656-05-29 15:50 G	14013810.99	14013811.16	14013811.35	0.0089	0.0024
Mercury	33656-08-25 19:12 G	14013899.12	14013899.30	14013899.49	0.0089	0.0014
Mercury	33656-11-21 22:33 G	14013987.26	14013987.44	14013987.63	0.0089	0.0004
Mercury	33657-02-18 01:55 G	14014075.40	14014075.58	14014075.77	0.0089	0.0007
Mercury	33657-05-17 05:17 G	14014163.54	14014163.72	14014163.90	0.0089	0.0017
Mercury	33657-08-13 08:24 G	14014251.68	14014251.85	14014252.04	0.0089	0.0028
Mercury	33657-11-09 11:45 G	14014339.83	14014339.99	14014340.17	0.0089	0.0038
Mercury	33658-02-05 14:53 G	14014427.98	14014428.12	14014428.29	0.0089	0.0048
Mercury	33658-05-04 18:14 G	14014516.13	14014516.26	14014516.41	0.0089	0.0058
Mercury	33658-07-31 21:21 G	14014604.29	14014604.39	14014604.52	0.0089	0.0068
Mercury	33658-10-28 00:43 G	14014692.46	14014692.53	14014692.63	0.0089	0.0078
Mercury	33659-01-24 03:50 G	14014780.65	14014780.66	14014780.70	0.0089	0.0088
Mars	33670-07-20 09:36 G	14018975.70	14018975.90	14018976.16	0.0089	0.0061
Mars	33672-06-14 09:07 G	14019670.57	14019670.88	14019671.20	0.0089	0.0009
Mars	33674-05-10 05:17 G	14020365.59	14020365.72	14020365.91	0.0089	0.0077

Earth	33681-01-13 01:12 G	14022805.44	14022805.55	14022805.71	0.0090	0.0077
Moon	33681-01-13 03:36 G	14022805.49	14022805.65	14022805.80	0.0090	0.0072 *
Earth	33682-01-15 13:41 G	14023172.90	14023173.07	14023173.28	0.0090	0.0061
Moon	33682-01-15 13:26 G	14023172.92	14023173.06	14023173.26	0.0090	0.0065 *
Moon	33683-01-18 02:24 G	14023540.36	14023540.60	14023540.84	0.0090	0.0040
Earth	33683-01-18 02:24 G	14023540.40	14023540.60	14023540.85	0.0090	0.0045 *
Earth	33684-01-20 15:36 G	14023907.91	14023908.15	14023908.40	0.0090	0.0028
Moon	33684-01-20 17:17 G	14023908.00	14023908.22	14023908.47	0.0090	0.0033 *
Moon	33685-01-22 01:26 G	14024275.30	14024275.56	14024275.82	0.0090	0.0007
Earth	33685-01-22 04:19 G	14024275.43	14024275.68	14024275.95	0.0090	0.0012 *
Earth	33686-01-24 17:17 G	14024642.96	14024643.22	14024643.48	0.0090	0.0005
Moon	33686-01-24 20:24 G	14024643.10	14024643.35	14024643.61	0.0090	0.0002 *
Moon	33687-01-27 02:09 G	14025010.36	14025010.59	14025010.85	0.0090	0.0027
Earth	33687-01-27 06:00 G	14025010.51	14025010.75	14025011.01	0.0090	0.0022 *
Earth	33688-01-29 18:29 G	14025378.06	14025378.27	14025378.52	0.0090	0.0039
Moon	33688-01-29 21:50 G	14025378.18	14025378.41	14025378.67	0.0090	0.0034 *
Moon	33689-01-31 04:19 G	14025745.52	14025745.68	14025745.89	0.0090	0.0060
Earth	33689-01-31 07:26 G	14025745.62	14025745.81	14025746.03	0.0090	0.0055 *
Earth	33690-02-02 20:09 G	14026113.19	14026113.34	14026113.51	0.0090	0.0071
Moon	33690-02-02 22:19 G	14026113.25	14026113.43	14026113.61	0.0090	0.0066 *
Earth	33691-02-05 09:07 G	14026480.83	14026480.88	14026480.94	0.0090	0.0087
Venus	33715-10-22 14:24 G	14035505.02	14035505.10	14035505.19	0.0089	0.0082
Venus	33716-06-04 03:21 G	14035730.50	14035730.64	14035730.80	0.0089	0.0065
Venus	33717-01-15 16:33 G	14035956.01	14035956.19	14035956.38	0.0089	0.0048
Venus	33717-08-29 05:31 G	14036181.54	14036181.73	14036181.95	0.0089	0.0031
Venus	33718-04-11 18:43 G	14036407.06	14036407.28	14036407.50	0.0089	0.0013
Venus	33718-11-23 07:41 G	14036632.60	14036632.82	14036633.04	0.0089	0.0004
Venus	33719-07-06 20:38 G	14036858.15	14036858.36	14036858.58	0.0089	0.0021
Venus	33720-02-17 09:36 G	14037083.71	14037083.90	14037084.11	0.0089	0.0039
Venus	33720-09-29 22:48 G	14037309.28	14037309.45	14037309.63	0.0089	0.0055

Venus	33721-05-13 11:45 G	14037534.87	14037534.99	14037535.12	0.0089	0.0072
Mercury	33735-04-08 09:07 G	14042612.88	14042612.88	14042612.89	0.0089	0.0088
Mercury	33735-07-05 10:19 G	14042700.89	14042700.93	14042700.99	0.0089	0.0082
Mercury	33735-10-01 11:45 G	14042788.93	14042788.99	14042789.07	0.0088	0.0074
Mercury	33735-12-28 13:26 G	14042876.97	14042877.06	14042877.14	0.0088	0.0067
Mercury	33736-03-25 14:38 G	14042965.02	14042965.11	14042965.21	0.0088	0.0060
Mercury	33736-06-21 16:05 G	14043053.06	14043053.17	14043053.28	0.0088	0.0052
Mercury	33736-09-17 17:17 G	14043141.11	14043141.22	14043141.34	0.0088	0.0046
Mercury	33736-12-14 18:43 G	14043229.17	14043229.28	14043229.41	0.0088	0.0038
Mercury	33737-03-12 20:09 G	14043317.22	14043317.34	14043317.47	0.0088	0.0031
Mercury	33737-06-08 21:36 G	14043405.27	14043405.40	14043405.53	0.0088	0.0024
Mercury	33737-09-04 23:02 G	14043493.33	14043493.46	14043493.59	0.0088	0.0016
Mercury	33737-12-02 00:29 G	14043581.38	14043581.52	14043581.65	0.0088	0.0009
Mercury	33738-02-28 01:55 G	14043669.44	14043669.58	14043669.71	0.0088	0.0002
Mercury	33738-05-27 03:07 G	14043757.50	14043757.63	14043757.77	0.0088	0.0007
Mercury	33738-08-23 04:33 G	14043845.56	14043845.69	14043845.83	0.0088	0.0013
Mercury	33738-11-19 06:00 G	14043933.62	14043933.75	14043933.89	0.0088	0.0020
Mercury	33739-02-15 07:26 G	14044021.68	14044021.81	14044021.94	0.0088	0.0028
Mercury	33739-05-14 08:38 G	14044109.75	14044109.86	14044110.00	0.0088	0.0036
Mercury	33739-08-10 10:05 G	14044197.81	14044197.92	14044198.05	0.0088	0.0043
Mercury	33739-11-06 11:45 G	14044285.88	14044285.99	14044286.10	0.0088	0.0050
Mercury	33740-02-02 12:57 G	14044373.94	14044374.04	14044374.15	0.0088	0.0057
Mercury	33740-04-30 14:24 G	14044462.01	14044462.10	14044462.20	0.0088	0.0065
Mercury	33740-07-27 15:36 G	14044550.09	14044550.15	14044550.24	0.0088	0.0073
Mercury	33740-10-23 17:17 G	14044638.17	14044638.22	14044638.28	0.0088	0.0080
Mercury	33741-01-19 18:29 G	14044726.27	14044726.27	14044726.31	0.0088	0.0087
Mars	33752-03-30 21:36 G	14048814.15	14048814.40	14048814.69	0.0088	0.0045
Mars	33754-02-23 12:57 G	14049508.74	14049509.04	14049509.35	0.0088	0.0020
Mars	33756-01-19 06:00 G	14050203.68	14050203.75	14050203.83	0.0088	0.0085
Earth	33762-07-16 06:29 G	14052573.69	14052573.77	14052573.89	0.0088	0.0081

Moon	33762-07-16 08:53 G	14052573.80	14052573.87	14052573.97	0.0088	0.0083	*
Moon	33763-07-18 15:50 G	14052941.00	14052941.16	14052941.35	0.0088	0.0063	
Earth	33763-07-18 17:02 G	14052941.07	14052941.21	14052941.41	0.0088	0.0066	*
Earth	33764-07-20 04:19 G	14053308.48	14053308.68	14053308.90	0.0088	0.0050	
Moon	33764-07-20 04:19 G	14053308.48	14053308.68	14053308.91	0.0088	0.0053	*
Earth	33765-07-22 14:53 G	14053675.90	14053676.12	14053676.37	0.0088	0.0035	
Moon	33765-07-22 16:19 G	14053675.96	14053676.18	14053676.43	0.0088	0.0033	*
Moon	33766-07-24 23:31 G	14054043.23	14054043.48	14054043.75	0.0088	0.0022	
Earth	33766-07-25 01:41 G	14054043.33	14054043.57	14054043.83	0.0088	0.0019	*
Earth	33767-07-27 12:29 G	14054410.76	14054411.02	14054411.28	0.0088	0.0003	
Moon	33767-07-27 15:36 G	14054410.90	14054411.15	14054411.40	0.0088	0.0000	*
Moon	33768-07-28 19:26 G	14054778.06	14054778.31	14054778.57	0.0088	0.0010	
Earth	33768-07-28 22:48 G	14054778.21	14054778.45	14054778.72	0.0088	0.0013	*
Earth	33769-07-31 09:21 G	14055145.66	14055145.89	14055146.15	0.0088	0.0028	
Moon	33769-07-31 12:43 G	14055145.81	14055146.03	14055146.29	0.0088	0.0032	*
Moon	33770-08-02 17:02 G	14055512.99	14055513.21	14055513.44	0.0088	0.0040	
Earth	33770-08-02 19:41 G	14055513.12	14055513.32	14055513.57	0.0088	0.0044	*
Earth	33771-08-05 06:14 G	14055880.59	14055880.76	14055880.97	0.0088	0.0059	
Moon	33771-08-05 08:09 G	14055880.68	14055880.84	14055881.05	0.0088	0.0062	*
Moon	33772-08-06 15:50 G	14056248.03	14056248.16	14056248.32	0.0088	0.0071	
Earth	33772-08-06 17:17 G	14056248.09	14056248.22	14056248.36	0.0088	0.0074	*
Venus	33799-03-02 23:17 G	14065952.36	14065952.47	14065952.58	0.0088	0.0076	
Venus	33799-10-14 11:45 G	14066177.85	14066177.99	14066178.17	0.0088	0.0059	
Venus	33800-05-28 00:57 G	14066403.35	14066403.54	14066403.74	0.0088	0.0042	
Venus	33801-01-08 14:09 G	14066628.88	14066629.09	14066629.30	0.0088	0.0026	
Venus	33801-08-22 03:07 G	14066854.41	14066854.63	14066854.85	0.0088	0.0009	
Venus	33802-04-04 16:05 G	14067079.95	14067080.17	14067080.39	0.0088	0.0008	
Venus	33802-11-16 05:02 G	14067305.50	14067305.71	14067305.92	0.0088	0.0025	
Venus	33803-06-29 17:45 G	14067531.06	14067531.24	14067531.45	0.0088	0.0042	
Venus	33804-02-10 06:29 G	14067756.63	14067756.77	14067756.96	0.0088	0.0059	

Venus	33804-09-22 19:55 G	14067982.22	14067982.33	14067982.45	0.0088	0.0075
Mercury	33819-09-15 17:45 G	14073453.19	14073453.24	14073453.33	0.0089	0.0082
Mercury	33819-12-12 21:07 G	14073541.29	14073541.38	14073541.51	0.0089	0.0072
Mercury	33820-03-10 00:43 G	14073629.40	14073629.53	14073629.68	0.0089	0.0061
Mercury	33820-06-06 04:05 G	14073717.53	14073717.67	14073717.84	0.0089	0.0051
Mercury	33820-09-02 07:26 G	14073805.65	14073805.81	14073805.99	0.0089	0.0041
Mercury	33820-11-29 11:02 G	14073893.78	14073893.96	14073894.14	0.0089	0.0030
Mercury	33821-02-25 14:24 G	14073981.92	14073982.10	14073982.28	0.0089	0.0020
Mercury	33821-05-24 17:45 G	14074070.05	14074070.24	14074070.43	0.0089	0.0010
Mercury	33821-08-20 21:07 G	14074158.19	14074158.38	14074158.57	0.0089	0.0001
Mercury	33821-11-17 00:29 G	14074246.33	14074246.52	14074246.70	0.0089	0.0011
Mercury	33822-02-13 03:36 G	14074334.47	14074334.65	14074334.84	0.0089	0.0021
Mercury	33822-05-12 06:57 G	14074422.62	14074422.79	14074422.97	0.0089	0.0031
Mercury	33822-08-08 10:05 G	14074510.77	14074510.92	14074511.10	0.0089	0.0042
Mercury	33822-11-04 13:12 G	14074598.92	14074599.05	14074599.22	0.0089	0.0052
Mercury	33823-01-31 16:33 G	14074687.07	14074687.19	14074687.34	0.0089	0.0062
Mercury	33823-04-29 19:41 G	14074775.23	14074775.32	14074775.45	0.0089	0.0072
Mercury	33823-07-26 23:02 G	14074863.41	14074863.46	14074863.55	0.0089	0.0082
Mars	33834-03-05 18:43 G	14078738.18	14078738.28	14078738.44	0.0089	0.0082
Mars	33836-01-29 20:09 G	14079433.03	14079433.34	14079433.65	0.0089	0.0012
Mars	33837-12-24 17:45 G	14080128.01	14080128.24	14080128.49	0.0089	0.0057
Moon	33845-01-14 08:53 G	14082705.81	14082705.87	14082705.98	0.0090	0.0084
Earth	33845-01-14 09:07 G	14082705.82	14082705.88	14082705.96	0.0090	0.0086 *
Moon	33846-01-16 19:41 G	14083073.18	14083073.32	14083073.49	0.0090	0.0073
Earth	33846-01-16 21:36 G	14083073.25	14083073.40	14083073.57	0.0090	0.0070 *
Earth	33847-01-19 10:05 G	14083440.73	14083440.92	14083441.14	0.0090	0.0054
Moon	33847-01-19 12:43 G	14083440.83	14083441.03	14083441.24	0.0090	0.0051 *
Moon	33848-01-21 19:26 G	14083808.09	14083808.31	14083808.56	0.0090	0.0040
Earth	33848-01-21 23:02 G	14083808.23	14083808.46	14083808.70	0.0090	0.0037 *
Earth	33849-01-23 11:31 G	14084175.74	14084175.98	14084176.24	0.0090	0.0021

Moon	33849-01-23 15:21 G	14084175.89	14084176.14	14084176.40	0.0090	0.0017	*
Moon	33850-01-25 21:07 G	14084543.13	14084543.38	14084543.64	0.0090	0.0006	
Earth	33850-01-26 00:29 G	14084543.27	14084543.52	14084543.78	0.0090	0.0004	*
Earth	33851-01-28 13:12 G	14084910.81	14084911.05	14084911.32	0.0090	0.0014	
Moon	33851-01-28 16:33 G	14084910.94	14084911.19	14084911.46	0.0090	0.0015	*
Moon	33852-01-31 00:14 G	14085278.28	14085278.51	14085278.76	0.0090	0.0028	
Earth	33852-01-31 02:09 G	14085278.36	14085278.59	14085278.84	0.0090	0.0030	*
Earth	33853-02-01 14:38 G	14085645.91	14085646.11	14085646.35	0.0090	0.0047	
Moon	33853-02-01 15:50 G	14085645.95	14085646.16	14085646.41	0.0090	0.0048	*
Earth	33854-02-04 03:36 G	14086013.48	14086013.65	14086013.84	0.0090	0.0063	
Moon	33854-02-04 03:36 G	14086013.48	14086013.65	14086013.84	0.0090	0.0062	*
Moon	33855-02-06 14:53 G	14086381.02	14086381.12	14086381.24	0.0090	0.0081	
Earth	33855-02-06 16:05 G	14086381.08	14086381.17	14086381.31	0.0090	0.0080	*
Venus	33880-01-25 00:14 G	14095499.50	14095499.51	14095499.55	0.0089	0.0088	
Venus	33880-09-06 13:26 G	14095724.94	14095725.06	14095725.20	0.0089	0.0071	
Venus	33881-04-20 02:24 G	14095950.44	14095950.60	14095950.79	0.0089	0.0054	
Venus	33881-12-01 15:21 G	14096175.96	14096176.14	14096176.35	0.0089	0.0038	
Venus	33882-07-15 04:33 G	14096401.48	14096401.69	14096401.91	0.0089	0.0020	
Venus	33883-02-25 17:45 G	14096627.02	14096627.24	14096627.46	0.0089	0.0003	
Venus	33883-10-09 06:43 G	14096852.57	14096852.78	14096853.00	0.0089	0.0014	
Venus	33884-05-21 19:41 G	14097078.12	14097078.32	14097078.53	0.0089	0.0031	
Venus	33885-01-02 08:38 G	14097303.69	14097303.86	14097304.06	0.0089	0.0048	
Venus	33885-08-15 21:36 G	14097529.27	14097529.40	14097529.56	0.0089	0.0065	
Venus	33886-03-29 10:33 G	14097754.87	14097754.94	14097755.04	0.0089	0.0082	
Mercury	33900-01-04 08:24 G	14102783.84	14102783.85	14102783.89	0.0089	0.0087	
Mercury	33900-04-02 09:50 G	14102871.86	14102871.91	14102871.98	0.0089	0.0079	
Mercury	33900-06-29 11:31 G	14102959.90	14102959.98	14102960.05	0.0089	0.0072	
Mercury	33900-09-25 12:43 G	14103047.94	14103048.03	14103048.13	0.0089	0.0065	
Mercury	33900-12-22 13:55 G	14103135.99	14103136.08	14103136.19	0.0088	0.0058	
Mercury	33901-03-20 15:21 G	14103224.04	14103224.14	14103224.26	0.0088	0.0051	

Mercury	33901-06-16 16:48 G	14103312.09	14103312.20	14103312.32	0.0088	0.0043
Mercury	33901-09-12 18:14 G	14103400.14	14103400.26	14103400.39	0.0088	0.0036
Mercury	33901-12-09 19:41 G	14103488.19	14103488.32	14103488.45	0.0088	0.0029
Mercury	33902-03-07 21:07 G	14103576.25	14103576.38	14103576.51	0.0088	0.0021
Mercury	33902-06-03 22:19 G	14103664.30	14103664.43	14103664.57	0.0088	0.0015
Mercury	33902-08-30 23:45 G	14103752.36	14103752.49	14103752.63	0.0088	0.0008
Mercury	33902-11-27 01:12 G	14103840.42	14103840.55	14103840.69	0.0088	0.0003
Mercury	33903-02-23 02:38 G	14103928.48	14103928.61	14103928.75	0.0088	0.0008
Mercury	33903-05-22 04:05 G	14104016.54	14104016.67	14104016.80	0.0088	0.0015
Mercury	33903-08-18 05:31 G	14104104.60	14104104.73	14104104.86	0.0088	0.0023
Mercury	33903-11-14 06:43 G	14104192.66	14104192.78	14104192.92	0.0088	0.0030
Mercury	33904-02-10 08:09 G	14104280.72	14104280.84	14104280.97	0.0088	0.0038
Mercury	33904-05-08 09:21 G	14104368.79	14104368.89	14104369.02	0.0088	0.0046
Mercury	33904-08-04 11:02 G	14104456.85	14104456.96	14104457.07	0.0088	0.0052
Mercury	33904-10-31 12:29 G	14104544.92	14104545.02	14104545.12	0.0088	0.0060
Mercury	33905-01-27 13:41 G	14104633.00	14104633.07	14104633.17	0.0088	0.0067
Mercury	33905-04-25 15:07 G	14104721.07	14104721.13	14104721.21	0.0088	0.0075
Mercury	33905-07-22 16:48 G	14104809.15	14104809.20	14104809.25	0.0088	0.0082
Mars	33915-11-15 16:48 G	14108577.01	14108577.20	14108577.44	0.0088	0.0063
Mars	33917-10-10 05:17 G	14109271.41	14109271.72	14109272.04	0.0088	0.0002
Mars	33919-09-04 20:38 G	14109966.17	14109966.36	14109966.57	0.0088	0.0067
Moon	33927-07-20 01:41 G	14112841.45	14112841.57	14112841.76	0.0088	0.0071
Earth	33927-07-20 02:53 G	14112841.49	14112841.62	14112841.76	0.0088	0.0074 *
Earth	33928-07-21 13:12 G	14113208.89	14113209.05	14113209.27	0.0088	0.0059
Moon	33928-07-21 14:53 G	14113208.97	14113209.12	14113209.31	0.0088	0.0063 *
Moon	33929-07-23 21:07 G	14113576.17	14113576.38	14113576.64	0.0088	0.0039
Earth	33929-07-24 00:29 G	14113576.30	14113576.52	14113576.75	0.0088	0.0043 *
Earth	33930-07-26 11:17 G	14113943.73	14113943.97	14113944.22	0.0088	0.0027
Moon	33930-07-26 14:24 G	14113943.87	14113944.10	14113944.35	0.0088	0.0031 *
Moon	33931-07-28 18:14 G	14114311.01	14114311.26	14114311.52	0.0088	0.0008

Earth	33931-07-28 21:50 G	14114311.16	14114311.41	14114311.67	0.0088	0.0012	*
Earth	33932-07-30 08:24 G	14114678.60	14114678.85	14114679.12	0.0088	0.0005	
Moon	33932-07-30 12:00 G	14114678.73	14114679.00	14114679.26	0.0088	0.0001	*
Moon	33933-08-01 16:19 G	14115045.95	14115046.18	14115046.44	0.0088	0.0024	
Earth	33933-08-01 19:12 G	14115046.05	14115046.30	14115046.56	0.0088	0.0020	*
Earth	33934-08-04 05:17 G	14115413.50	14115413.72	14115413.97	0.0088	0.0036	
Moon	33934-08-04 07:26 G	14115413.57	14115413.81	14115414.07	0.0088	0.0032	*
Earth	33935-08-06 16:19 G	14115780.97	14115781.18	14115781.39	0.0088	0.0051	
Moon	33935-08-06 16:05 G	14115780.98	14115781.17	14115781.37	0.0088	0.0055	*
Moon	33936-08-08 01:26 G	14116148.40	14116148.56	14116148.77	0.0088	0.0064	
Earth	33936-08-08 02:24 G	14116148.46	14116148.60	14116148.79	0.0088	0.0067	*
Earth	33937-08-10 13:26 G	14116515.97	14116516.06	14116516.14	0.0088	0.0082	
Moon	33937-08-10 14:53 G	14116516.09	14116516.12	14116516.18	0.0088	0.0086	*
Venus	33963-06-06 09:36 G	14125946.83	14125946.90	14125946.99	0.0088	0.0082	
Venus	33964-01-17 22:19 G	14126172.30	14126172.43	14126172.60	0.0088	0.0065	
Venus	33964-08-30 11:31 G	14126397.81	14126397.98	14126398.18	0.0088	0.0049	
Venus	33965-04-13 00:29 G	14126623.32	14126623.52	14126623.74	0.0088	0.0032	
Venus	33965-11-24 13:26 G	14126848.85	14126849.06	14126849.29	0.0088	0.0016	
Venus	33966-07-08 02:38 G	14127074.39	14127074.61	14127074.84	0.0088	0.0002	
Venus	33967-02-18 15:36 G	14127299.94	14127300.15	14127300.37	0.0088	0.0018	
Venus	33967-10-02 04:19 G	14127525.49	14127525.68	14127525.90	0.0088	0.0036	
Venus	33968-05-14 17:31 G	14127751.06	14127751.23	14127751.41	0.0088	0.0052	
Venus	33968-12-26 06:14 G	14127976.64	14127976.76	14127976.91	0.0088	0.0069	
Venus	33969-08-08 18:57 G	14128202.26	14128202.29	14128202.38	0.0088	0.0086	
Mercury	33984-03-16 13:12 G	14133536.04	14133536.05	14133536.08	0.0089	0.0088	
Mercury	33984-06-12 16:19 G	14133624.11	14133624.18	14133624.29	0.0089	0.0078	
Mercury	33984-09-08 20:09 G	14133712.22	14133712.34	14133712.46	0.0089	0.0067	
Mercury	33984-12-05 23:17 G	14133800.34	14133800.47	14133800.63	0.0089	0.0057	
Mercury	33985-03-04 02:38 G	14133888.46	14133888.61	14133888.78	0.0089	0.0047	
Mercury	33985-05-31 06:14 G	14133976.59	14133976.76	14133976.94	0.0089	0.0036	



Mercury	33985-08-27 09:36 G	14134064.72	14134064.90	14134065.09	0.0089	0.0026
Mercury	33985-11-23 12:57 G	14134152.86	14134153.04	14134153.23	0.0089	0.0016
Mercury	33986-02-19 16:19 G	14134241.00	14134241.18	14134241.37	0.0089	0.0006
Mercury	33986-05-18 19:41 G	14134329.14	14134329.32	14134329.51	0.0089	0.0005
Mercury	33986-08-14 23:02 G	14134417.28	14134417.46	14134417.65	0.0089	0.0015
Mercury	33986-11-11 02:09 G	14134505.42	14134505.59	14134505.78	0.0089	0.0026
Mercury	33987-02-07 05:31 G	14134593.57	14134593.73	14134593.91	0.0089	0.0036
Mercury	33987-05-06 08:53 G	14134681.72	14134681.87	14134682.04	0.0089	0.0046
Mercury	33987-08-02 12:00 G	14134769.87	14134770.00	14134770.16	0.0089	0.0056
Mercury	33987-10-29 15:21 G	14134858.03	14134858.14	14134858.27	0.0089	0.0066
Mercury	33988-01-25 18:43 G	14134946.19	14134946.28	14134946.38	0.0089	0.0076
Mercury	33988-04-22 21:50 G	14135034.38	14135034.41	14135034.47	0.0089	0.0086
Mars	33999-09-14 08:09 G	14139195.56	14139195.84	14139196.15	0.0089	0.0032

# 35TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 35th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	34001-08-09 08:38 G	14139890.58	14139890.86	14139891.15	0.0089	0.0038		
Earth	34010-01-17 06:00 G	14142973.64	14142973.75	14142973.88	0.0090	0.0079		
Moon	34010-01-17 09:07 G	14142973.76	14142973.88	14142974.02	0.0090	0.0076	*	
Moon	34011-01-19 14:38 G	14143340.96	14143341.11	14143341.31	0.0090	0.0066		
Earth	34011-01-19 18:14 G	14143341.10	14143341.26	14143341.47	0.0090	0.0063	*	

Earth	34012-01-22 06:57 G	14143708.58	14143708.79	14143709.02	0.0090	0.0046
Moon	34012-01-22 10:33 G	14143708.72	14143708.94	14143709.18	0.0090	0.0042 *
Moon	34013-01-23 16:19 G	14144075.95	14144076.18	14144076.43	0.0090	0.0033
Earth	34013-01-23 19:41 G	14144076.08	14144076.32	14144076.57	0.0090	0.0029 *
Earth	34014-01-26 08:09 G	14144443.59	14144443.84	14144444.10	0.0090	0.0013
Moon	34014-01-26 10:48 G	14144443.69	14144443.95	14144444.21	0.0090	0.0009 *
Moon	34015-01-28 19:26 G	14144811.06	14144811.31	14144811.56	0.0090	0.0001
Earth	34015-01-28 21:07 G	14144811.12	14144811.38	14144811.64	0.0090	0.0005 *
Earth	34016-01-31 09:36 G	14145178.66	14145178.90	14145179.16	0.0090	0.0021
Moon	34016-01-31 09:50 G	14145178.66	14145178.91	14145179.17	0.0090	0.0025 *
Earth	34017-02-01 22:19 G	14145546.21	14145546.43	14145546.68	0.0090	0.0038
Moon	34017-02-01 23:31 G	14145546.26	14145546.48	14145546.71	0.0090	0.0035 *
Moon	34018-02-04 09:36 G	14145913.71	14145913.90	14145914.11	0.0090	0.0059
Earth	34018-02-04 11:17 G	14145913.78	14145913.97	14145914.19	0.0090	0.0055 *
Earth	34019-02-07 00:00 G	14146281.37	14146281.50	14146281.67	0.0090	0.0072
Moon	34019-02-07 03:07 G	14146281.48	14146281.63	14146281.81	0.0090	0.0068 *
Earth	34020-02-09 13:12 G	14146649.01	14146649.05	14146649.10	0.0090	0.0088
Venus	34044-12-09 23:45 G	14155719.39	14155719.49	14155719.60	0.0089	0.0078
Venus	34045-07-23 12:57 G	14155944.88	14155945.04	14155945.20	0.0089	0.0061
Venus	34046-03-06 01:55 G	14156170.40	14156170.58	14156170.78	0.0089	0.0044
Venus	34046-10-17 15:07 G	14156395.92	14156396.13	14156396.34	0.0089	0.0027
Venus	34047-05-31 04:05 G	14156621.46	14156621.67	14156621.89	0.0089	0.0010
Venus	34048-01-11 17:17 G	14156847.00	14156847.22	14156847.44	0.0089	0.0007
Venus	34048-08-24 06:14 G	14157072.55	14157072.76	14157072.97	0.0089	0.0024
Venus	34049-04-06 19:12 G	14157298.11	14157298.30	14157298.50	0.0089	0.0041
Venus	34049-11-18 07:55 G	14157523.68	14157523.83	14157524.01	0.0089	0.0058
Venus	34050-07-01 20:53 G	14157749.27	14157749.37	14157749.50	0.0089	0.0075
Mercury	34064-10-01 08:09 G	14162954.81	14162954.84	14162954.89	0.0089	0.0084
Mercury	34064-12-28 09:21 G	14163042.84	14163042.89	14163042.97	0.0089	0.0077
Mercury	34065-03-26 10:48 G	14163130.88	14163130.95	14163131.05	0.0089	0.0070

Mercury	34065-06-22 12:29 G	14163218.93	14163219.02	14163219.12	0.0089	0.0062
Mercury	34065-09-18 13:41 G	14163306.97	14163307.07	14163307.18	0.0089	0.0055
Mercury	34065-12-15 15:07 G	14163395.02	14163395.13	14163395.25	0.0088	0.0048
Mercury	34066-03-13 16:19 G	14163483.07	14163483.18	14163483.31	0.0088	0.0041
Mercury	34066-06-09 18:00 G	14163571.12	14163571.25	14163571.37	0.0088	0.0033
Mercury	34066-09-05 19:26 G	14163659.18	14163659.31	14163659.44	0.0088	0.0026
Mercury	34066-12-02 20:38 G	14163747.23	14163747.36	14163747.50	0.0088	0.0019
Mercury	34067-02-28 22:05 G	14163835.29	14163835.42	14163835.56	0.0088	0.0011
Mercury	34067-05-27 23:31 G	14163923.34	14163923.48	14163923.62	0.0088	0.0004
Mercury	34067-08-24 00:57 G	14164011.40	14164011.54	14164011.67	0.0088	0.0004
Mercury	34067-11-20 02:09 G	14164099.46	14164099.59	14164099.73	0.0088	0.0012
Mercury	34068-02-16 03:36 G	14164187.52	14164187.65	14164187.79	0.0088	0.0019
Mercury	34068-05-14 05:02 G	14164275.58	14164275.71	14164275.84	0.0088	0.0026
Mercury	34068-08-10 06:14 G	14164363.65	14164363.76	14164363.90	0.0088	0.0034
Mercury	34068-11-06 07:55 G	14164451.71	14164451.83	14164451.95	0.0088	0.0040
Mercury	34069-02-02 09:21 G	14164539.78	14164539.89	14164540.00	0.0088	0.0048
Mercury	34069-05-01 10:33 G	14164627.84	14164627.94	14164628.06	0.0088	0.0055
Mercury	34069-07-28 12:00 G	14164715.91	14164716.00	14164716.10	0.0088	0.0063
Mercury	34069-10-24 13:12 G	14164803.99	14164804.05	14164804.15	0.0088	0.0071
Mercury	34070-01-20 14:53 G	14164892.06	14164892.12	14164892.19	0.0088	0.0078
Mercury	34070-04-18 16:05 G	14164980.15	14164980.17	14164980.22	0.0088	0.0086
Mars	34079-06-30 14:24 G	14168339.99	14168340.10	14168340.24	0.0088	0.0081
Mars	34081-05-25 01:55 G	14169034.27	14169034.58	14169034.88	0.0088	0.0016
Mars	34083-04-19 13:55 G	14169728.84	14169729.08	14169729.36	0.0088	0.0049
Earth	34091-07-19 12:00 G	14172741.94	14172742.00	14172742.10	0.0088	0.0083
Moon	34091-07-19 14:24 G	14172742.04	14172742.10	14172742.18	0.0088	0.0084 *
Moon	34092-07-20 19:55 G	14173109.18	14173109.33	14173109.53	0.0088	0.0066
Earth	34092-07-20 22:48 G	14173109.31	14173109.45	14173109.64	0.0088	0.0068 *
Earth	34093-07-23 09:50 G	14173476.72	14173476.91	14173477.14	0.0088	0.0052
Moon	34093-07-23 13:41 G	14173476.88	14173477.07	14173477.29	0.0088	0.0053 *

Moon	34094-07-25 17:17 G	14173844.01	14173844.22	14173844.48	0.0088	0.0035
Earth	34094-07-25 20:53 G	14173844.15	14173844.37	14173844.62	0.0088	0.0036 *
Earth	34095-07-28 07:41 G	14174211.58	14174211.82	14174212.08	0.0088	0.0020
Moon	34095-07-28 11:17 G	14174211.72	14174211.97	14174212.23	0.0088	0.0022 *
Moon	34096-07-29 16:48 G	14174578.95	14174579.20	14174579.45	0.0088	0.0002
Earth	34096-07-29 18:57 G	14174579.03	14174579.29	14174579.54	0.0088	0.0004 *
Earth	34097-08-01 05:31 G	14174946.47	14174946.73	14174946.98	0.0088	0.0012
Moon	34097-08-01 06:14 G	14174946.50	14174946.76	14174947.03	0.0088	0.0011 *
Moon	34098-08-03 16:05 G	14175313.93	14175314.17	14175314.40	0.0088	0.0030
Earth	34098-08-03 15:50 G	14175313.93	14175314.16	14175314.42	0.0088	0.0028 *
Moon	34099-08-06 00:57 G	14175681.31	14175681.54	14175681.77	0.0088	0.0042
Earth	34099-08-06 02:24 G	14175681.39	14175681.60	14175681.84	0.0088	0.0044 *
Earth	34100-08-08 12:43 G	14176048.87	14176049.03	14176049.24	0.0088	0.0060
Moon	34100-08-08 15:07 G	14176048.98	14176049.13	14176049.34	0.0088	0.0062 *
Moon	34101-08-10 20:24 G	14176416.22	14176416.35	14176416.51	0.0088	0.0073
Earth	34101-08-10 23:17 G	14176416.37	14176416.47	14176416.63	0.0088	0.0076 *
Venus	34127-09-08 20:24 G	14185941.34	14185941.35	14185941.40	0.0088	0.0087
Venus	34128-04-21 09:36 G	14186166.77	14186166.90	14186167.03	0.0088	0.0071
Venus	34128-12-02 22:19 G	14186392.27	14186392.43	14186392.61	0.0088	0.0054
Venus	34129-07-16 11:31 G	14186617.79	14186617.98	14186618.19	0.0088	0.0038
Venus	34130-02-27 00:29 G	14186843.31	14186843.52	14186843.74	0.0088	0.0021
Venus	34130-10-10 13:26 G	14187068.84	14187069.06	14187069.29	0.0088	0.0005
Venus	34131-05-24 02:24 G	14187294.39	14187294.60	14187294.82	0.0088	0.0012
Venus	34132-01-04 15:07 G	14187519.94	14187520.13	14187520.35	0.0088	0.0030
Venus	34132-08-17 04:33 G	14187745.51	14187745.69	14187745.88	0.0088	0.0046
Venus	34133-03-30 17:17 G	14187971.08	14187971.22	14187971.39	0.0088	0.0063
Venus	34133-11-11 06:00 G	14188196.68	14188196.75	14188196.87	0.0088	0.0079
Mercury	34148-12-12 12:14 G	14193706.95	14193707.01	14193707.07	0.0089	0.0083
Mercury	34149-03-10 15:21 G	14193795.04	14193795.14	14193795.26	0.0089	0.0073
Mercury	34149-06-06 18:29 G	14193883.16	14193883.27	14193883.43	0.0089	0.0063

Mercury	34149-09-02 22:19 G	14193971.28	14193971.43	14193971.59	0.0089	0.0052
Mercury	34149-11-30 01:26 G	14194059.41	14194059.56	14194059.74	0.0089	0.0042
Mercury	34150-02-26 05:17 G	14194147.54	14194147.72	14194147.89	0.0089	0.0031
Mercury	34150-05-25 08:24 G	14194235.67	14194235.85	14194236.04	0.0089	0.0021
Mercury	34150-08-21 11:45 G	14194323.81	14194323.99	14194324.19	0.0089	0.0011
Mercury	34150-11-17 15:21 G	14194411.95	14194412.14	14194412.33	0.0089	0.0001
Mercury	34151-02-13 18:29 G	14194500.09	14194500.27	14194500.46	0.0089	0.0010
Mercury	34151-05-12 21:50 G	14194588.23	14194588.41	14194588.60	0.0089	0.0020
Mercury	34151-08-09 01:12 G	14194676.38	14194676.55	14194676.73	0.0089	0.0030
Mercury	34151-11-05 04:19 G	14194764.53	14194764.68	14194764.86	0.0089	0.0041
Mercury	34152-02-01 07:41 G	14194852.68	14194852.82	14194852.98	0.0089	0.0051
Mercury	34152-04-29 10:48 G	14194940.83	14194940.95	14194941.10	0.0089	0.0061
Mercury	34152-07-26 14:09 G	14195028.99	14195029.09	14195029.21	0.0089	0.0071
Mercury	34152-10-22 17:17 G	14195117.16	14195117.22	14195117.31	0.0089	0.0081
Mars	34163-04-29 18:29 G	14198958.02	14198958.27	14198958.55	0.0089	0.0051
Mars	34165-03-24 21:36 G	14199653.09	14199653.40	14199653.71	0.0089	0.0019
Mars	34167-02-17 20:53 G	14200348.34	14200348.37	14200348.46	0.0089	0.0088
Jupiter	34170-05-26 04:19 G	14201541.20	14201541.68	14201542.22	0.0089	0.0027
Moon	34174-01-17 11:45 G	14202873.91	14202873.99	14202874.09	0.0090	0.0084
Earth	34174-01-17 15:36 G	14202874.11	14202874.15	14202874.20	0.0090	0.0088
Earth	34175-01-20 03:36 G	14203241.52	14203241.65	14203241.83	0.0090	0.0072
Moon	34175-01-20 06:43 G	14203241.67	14203241.78	14203241.95	0.0090	0.0076 *
Moon	34176-01-22 13:12 G	14203608.87	14203609.05	14203609.28	0.0090	0.0052
Earth	34176-01-22 16:19 G	14203608.99	14203609.18	14203609.40	0.0090	0.0055 *
Earth	34177-01-24 04:48 G	14203976.48	14203976.70	14203976.95	0.0090	0.0038
Moon	34177-01-24 06:43 G	14203976.57	14203976.78	14203977.04	0.0090	0.0042 *
Moon	34178-01-26 17:02 G	14204343.97	14204344.21	14204344.46	0.0090	0.0018
Earth	34178-01-26 17:45 G	14204343.99	14204344.24	14204344.49	0.0090	0.0021 *
Moon	34179-01-29 06:00 G	14204711.49	14204711.75	14204712.02	0.0090	0.0007
Earth	34179-01-29 06:14 G	14204711.50	14204711.76	14204712.02	0.0090	0.0004 *

Earth	34180-01-31 18:57 G	14205079.03	14205079.29	14205079.54	0.0090	0.0013
Moon	34180-01-31 20:09 G	14205079.11	14205079.34	14205079.60	0.0090	0.0017 *
Moon	34181-02-02 04:33 G	14205446.45	14205446.69	14205446.95	0.0090	0.0027
Earth	34181-02-02 07:41 G	14205446.57	14205446.82	14205447.06	0.0090	0.0030 *
Earth	34182-02-04 20:09 G	14205814.13	14205814.34	14205814.57	0.0090	0.0047
Moon	34182-02-04 23:02 G	14205814.26	14205814.46	14205814.68	0.0090	0.0050 *
Moon	34183-02-07 05:02 G	14206181.54	14206181.71	14206181.92	0.0090	0.0061
Earth	34183-02-07 08:53 G	14206181.71	14206181.87	14206182.07	0.0090	0.0064 *
Earth	34184-02-09 21:21 G	14206549.30	14206549.39	14206549.52	0.0090	0.0081
Moon	34184-02-10 00:43 G	14206549.46	14206549.53	14206549.65	0.0090	0.0084 *
Venus	34209-03-15 10:33 G	14215713.88	14215713.94	14215714.03	0.0089	0.0084
Venus	34209-10-26 23:45 G	14215939.35	14215939.49	14215939.64	0.0089	0.0067
Venus	34210-06-09 12:57 G	14216164.86	14216165.04	14216165.23	0.0089	0.0050
Venus	34211-01-21 02:09 G	14216390.39	14216390.59	14216390.80	0.0089	0.0033
Venus	34211-09-03 15:21 G	14216615.92	14216616.14	14216616.35	0.0089	0.0016
Venus	34212-04-16 04:19 G	14216841.46	14216841.68	14216841.90	0.0089	0.0001
Venus	34212-11-27 17:17 G	14217067.01	14217067.22	14217067.44	0.0089	0.0018
Venus	34213-07-11 06:14 G	14217292.56	14217292.76	14217292.96	0.0089	0.0035
Venus	34214-02-21 19:12 G	14217518.13	14217518.30	14217518.49	0.0089	0.0052
Venus	34214-10-05 07:55 G	14217743.71	14217743.83	14217743.99	0.0089	0.0069
Venus	34215-05-18 20:38 G	14217969.33	14217969.36	14217969.45	0.0089	0.0087
Mercury	34229-04-03 06:29 G	14223037.77	14223037.77	14223037.80	0.0089	0.0088
Mercury	34229-06-30 07:55 G	14223125.79	14223125.83	14223125.89	0.0089	0.0081
Mercury	34229-09-26 09:07 G	14223213.82	14223213.88	14223213.97	0.0089	0.0074
Mercury	34229-12-23 10:48 G	14223301.87	14223301.95	14223302.04	0.0089	0.0066
Mercury	34230-03-21 12:14 G	14223389.91	14223390.01	14223390.11	0.0089	0.0059
Mercury	34230-06-17 13:26 G	14223477.96	14223478.06	14223478.17	0.0089	0.0052
Mercury	34230-09-13 14:53 G	14223566.01	14223566.12	14223566.24	0.0088	0.0044
Mercury	34230-12-10 16:05 G	14223654.06	14223654.17	14223654.30	0.0088	0.0038
Mercury	34231-03-08 17:45 G	14223742.11	14223742.24	14223742.36	0.0088	0.0030

Mercury	34231-06-04 18:57 G	14223830.16	14223830.29	14223830.43	0.0088	0.0023
Mercury	34231-08-31 20:24 G	14223918.22	14223918.35	14223918.49	0.0088	0.0015
Mercury	34231-11-27 21:50 G	14224006.27	14224006.41	14224006.54	0.0088	0.0008
Mercury	34232-02-23 23:17 G	14224094.33	14224094.47	14224094.60	0.0088	0.0002
Mercury	34232-05-22 00:29 G	14224182.39	14224182.52	14224182.66	0.0088	0.0008
Mercury	34232-08-18 01:55 G	14224270.45	14224270.58	14224270.72	0.0088	0.0014
Mercury	34232-11-14 03:21 G	14224358.51	14224358.64	14224358.77	0.0088	0.0021
Mercury	34233-02-10 04:48 G	14224446.57	14224446.70	14224446.83	0.0088	0.0029
Mercury	34233-05-09 06:00 G	14224534.63	14224534.75	14224534.88	0.0088	0.0037
Mercury	34233-08-05 07:26 G	14224622.70	14224622.81	14224622.94	0.0088	0.0044
Mercury	34233-11-01 08:53 G	14224710.77	14224710.87	14224710.99	0.0088	0.0051
Mercury	34234-01-28 10:19 G	14224798.83	14224798.93	14224799.04	0.0088	0.0058
Mercury	34234-04-26 11:45 G	14224886.91	14224886.99	14224887.08	0.0088	0.0066
Mercury	34234-07-23 12:57 G	14224974.98	14224975.04	14224975.13	0.0088	0.0074
Mercury	34234-10-19 14:38 G	14225063.06	14225063.11	14225063.17	0.0088	0.0081
Mercury	34235-01-15 16:05 G	14225151.17	14225151.17	14225151.18	0.0088	0.0088
Mars	34245-01-08 23:31 G	14228797.20	14228797.48	14228797.77	0.0088	0.0034
Mars	34246-12-04 11:17 G	14229491.69	14229491.97	14229492.27	0.0088	0.0031
Earth	34256-07-22 09:07 G	14233009.77	14233009.88	14233010.03	0.0088	0.0076
Moon	34256-07-22 12:29 G	14233009.90	14233010.02	14233010.19	0.0088	0.0072 *
Moon	34257-07-24 16:33 G	14233377.04	14233377.19	14233377.38	0.0088	0.0065
Earth	34257-07-24 20:09 G	14233377.16	14233377.34	14233377.54	0.0088	0.0060 *
Earth	34258-07-27 06:57 G	14233744.58	14233744.79	14233745.02	0.0088	0.0044
Moon	34258-07-27 09:21 G	14233744.67	14233744.89	14233745.14	0.0088	0.0040 *
Moon	34259-07-29 16:19 G	14234111.95	14234112.18	14234112.42	0.0088	0.0032
Earth	34259-07-29 18:00 G	14234112.01	14234112.25	14234112.50	0.0088	0.0028 *
Earth	34260-07-31 05:02 G	14234479.45	14234479.71	14234479.97	0.0088	0.0012
Moon	34260-07-31 05:17 G	14234479.46	14234479.72	14234479.99	0.0088	0.0008 *
Earth	34261-08-02 15:50 G	14234846.90	14234847.16	14234847.42	0.0088	0.0004
Moon	34261-08-02 16:48 G	14234846.95	14234847.20	14234847.45	0.0088	0.0001 *

Moon	34262-08-05 00:29 G	14235214.28	14235214.52	14235214.79	0.0088	0.0025
Earth	34262-08-05 02:38 G	14235214.36	14235214.61	14235214.86	0.0088	0.0020 *
Earth	34263-08-07 12:43 G	14235581.82	14235582.03	14235582.29	0.0088	0.0037
Moon	34263-08-07 16:05 G	14235581.94	14235582.17	14235582.41	0.0088	0.0032 *
Moon	34264-08-08 19:55 G	14235949.16	14235949.33	14235949.55	0.0088	0.0057
Earth	34264-08-09 00:00 G	14235949.29	14235949.50	14235949.71	0.0088	0.0052 *
Earth	34265-08-11 10:19 G	14236316.77	14236316.93	14236317.09	0.0088	0.0068
Moon	34265-08-11 13:41 G	14236316.91	14236317.07	14236317.26	0.0088	0.0064 *
Earth	34266-08-13 20:38 G	14236684.31	14236684.36	14236684.45	0.0088	0.0084
Venus	34292-07-24 20:24 G	14246161.27	14246161.35	14246161.49	0.0088	0.0077
Venus	34293-03-07 09:50 G	14246386.75	14246386.91	14246387.08	0.0088	0.0060
Venus	34293-10-18 22:33 G	14246612.26	14246612.44	14246612.64	0.0088	0.0043
Venus	34294-06-01 11:31 G	14246837.78	14246837.98	14246838.20	0.0088	0.0027
Venus	34295-01-13 00:29 G	14247063.31	14247063.52	14247063.75	0.0088	0.0010
Venus	34295-08-26 13:41 G	14247288.85	14247289.07	14247289.29	0.0088	0.0007
Venus	34296-04-08 02:24 G	14247514.40	14247514.60	14247514.82	0.0088	0.0024
Venus	34296-11-19 15:36 G	14247739.95	14247740.15	14247740.35	0.0088	0.0040
Venus	34297-07-03 04:19 G	14247965.52	14247965.68	14247965.86	0.0088	0.0057
Venus	34298-02-13 17:02 G	14248191.11	14248191.21	14248191.36	0.0088	0.0074
Mercury	34313-06-14 07:26 G	14253789.81	14253789.81	14253789.84	0.0089	0.0089
Mercury	34313-09-10 11:02 G	14253877.88	14253877.96	14253878.06	0.0089	0.0078
Mercury	34313-12-07 14:09 G	14253965.99	14253966.09	14253966.23	0.0089	0.0068
Mercury	34314-03-05 18:00 G	14254054.11	14254054.25	14254054.40	0.0089	0.0057
Mercury	34314-06-01 21:07 G	14254142.24	14254142.38	14254142.56	0.0089	0.0047
Mercury	34314-08-29 00:57 G	14254230.37	14254230.54	14254230.71	0.0089	0.0036
Mercury	34314-11-25 04:05 G	14254318.50	14254318.67	14254318.86	0.0089	0.0026
Mercury	34315-02-21 07:26 G	14254406.63	14254406.81	14254407.01	0.0089	0.0016
Mercury	34315-05-20 11:02 G	14254494.77	14254494.96	14254495.15	0.0089	0.0005
Mercury	34315-08-16 14:24 G	14254582.91	14254583.10	14254583.29	0.0089	0.0005
Mercury	34315-11-12 17:31 G	14254671.06	14254671.23	14254671.43	0.0089	0.0016



Mercury	34316-02-08 20:53 G	14254759.20	14254759.37	14254759.56	0.0089	0.0026
Mercury	34316-05-07 00:14 G	14254847.35	14254847.51	14254847.69	0.0089	0.0036
Mercury	34316-08-03 03:36 G	14254935.50	14254935.65	14254935.82	0.0089	0.0046
Mercury	34316-10-30 06:57 G	14255023.65	14255023.79	14255023.94	0.0089	0.0056
Mercury	34317-01-26 10:19 G	14255111.81	14255111.93	14255112.05	0.0089	0.0066
Mercury	34317-04-24 13:12 G	14255199.97	14255200.05	14255200.16	0.0089	0.0077
Mercury	34317-07-21 16:19 G	14255288.16	14255288.18	14255288.24	0.0089	0.0087
Mars	34326-12-14 05:31 G	14258720.54	14258720.73	14258720.94	0.0089	0.0070
Mars	34328-11-08 09:50 G	14259415.60	14259415.91	14259416.23	0.0089	0.0001
Mars	34330-10-04 11:17 G	14260110.80	14260110.97	14260111.20	0.0089	0.0070
Moon	34339-01-21 11:02 G	14263141.87	14263141.96	14263142.10	0.0089	0.0080
Earth	34339-01-21 13:12 G	14263141.96	14263142.05	14263142.18	0.0089	0.0081 *
Earth	34340-01-24 01:55 G	14263509.42	14263509.58	14263509.78	0.0090	0.0064
Moon	34340-01-24 03:21 G	14263509.47	14263509.64	14263509.83	0.0090	0.0066 *
Moon	34341-01-25 14:09 G	14263876.89	14263877.09	14263877.33	0.0090	0.0045
Earth	34341-01-25 14:38 G	14263876.90	14263877.11	14263877.34	0.0090	0.0047 *
Moon	34342-01-28 01:26 G	14264244.33	14264244.56	14264244.83	0.0090	0.0032
Earth	34342-01-28 03:07 G	14264244.40	14264244.63	14264244.88	0.0090	0.0030 *
Earth	34343-01-30 15:50 G	14264611.91	14264612.16	14264612.42	0.0090	0.0013
Moon	34343-01-30 17:45 G	14264612.00	14264612.24	14264612.50	0.0090	0.0010 *
Moon	34344-02-02 01:26 G	14264979.30	14264979.56	14264979.82	0.0090	0.0002
Earth	34344-02-02 04:33 G	14264979.43	14264979.69	14264979.95	0.0090	0.0005 *
Earth	34345-02-03 17:02 G	14265346.96	14265347.21	14265347.46	0.0090	0.0022
Moon	34345-02-03 20:24 G	14265347.12	14265347.35	14265347.61	0.0090	0.0025 *
Moon	34346-02-06 02:09 G	14265714.37	14265714.59	14265714.84	0.0090	0.0036
Earth	34346-02-06 05:45 G	14265714.51	14265714.74	14265714.98	0.0090	0.0039 *
Earth	34347-02-08 18:14 G	14266082.07	14266082.26	14266082.47	0.0090	0.0056
Moon	34347-02-08 21:21 G	14266082.22	14266082.39	14266082.61	0.0090	0.0060 *
Moon	34348-02-11 04:33 G	14266449.56	14266449.69	14266449.87	0.0090	0.0071
Earth	34348-02-11 07:12 G	14266449.66	14266449.80	14266449.95	0.0090	0.0073 *

Venus	34373-06-17 21:36 G	14275708.40	14275708.40	14275708.41	0.0089	0.0089
Venus	34374-01-29 10:33 G	14275933.83	14275933.94	14275934.09	0.0089	0.0073
Venus	34374-09-11 23:45 G	14276159.33	14276159.49	14276159.68	0.0089	0.0056
Venus	34375-04-25 12:57 G	14276384.85	14276385.04	14276385.25	0.0089	0.0039
Venus	34375-12-07 02:09 G	14276610.38	14276610.59	14276610.81	0.0089	0.0022
Venus	34376-07-19 15:21 G	14276835.92	14276836.14	14276836.36	0.0089	0.0005
Venus	34377-03-02 04:33 G	14277061.47	14277061.69	14277061.91	0.0089	0.0012
Venus	34377-10-13 17:31 G	14277287.03	14277287.23	14277287.44	0.0089	0.0029
Venus	34378-05-27 06:29 G	14277512.59	14277512.77	14277512.96	0.0089	0.0046
Venus	34379-01-07 19:12 G	14277738.17	14277738.30	14277738.47	0.0089	0.0064
Venus	34379-08-21 08:09 G	14277963.77	14277963.84	14277963.96	0.0089	0.0080
Mercury	34393-12-30 06:43 G	14283208.74	14283208.78	14283208.82	0.0089	0.0084
Mercury	34394-03-28 07:55 G	14283296.77	14283296.83	14283296.90	0.0089	0.0077
Mercury	34394-06-24 09:07 G	14283384.81	14283384.88	14283384.98	0.0089	0.0070
Mercury	34394-09-20 10:33 G	14283472.86	14283472.94	14283473.04	0.0089	0.0063
Mercury	34394-12-17 12:00 G	14283560.90	14283561.00	14283561.11	0.0089	0.0055
Mercury	34395-03-15 13:26 G	14283648.95	14283649.06	14283649.18	0.0089	0.0048
Mercury	34395-06-11 14:53 G	14283737.00	14283737.12	14283737.24	0.0089	0.0041
Mercury	34395-09-07 16:05 G	14283825.05	14283825.17	14283825.30	0.0089	0.0034
Mercury	34395-12-04 17:31 G	14283913.10	14283913.23	14283913.36	0.0088	0.0026
Mercury	34396-03-01 18:57 G	14284001.16	14284001.29	14284001.42	0.0088	0.0019
Mercury	34396-05-28 20:24 G	14284089.21	14284089.35	14284089.48	0.0088	0.0012
Mercury	34396-08-24 21:36 G	14284177.27	14284177.40	14284177.54	0.0088	0.0005
Mercury	34396-11-20 23:02 G	14284265.33	14284265.46	14284265.60	0.0088	0.0003
Mercury	34397-02-17 00:29 G	14284353.38	14284353.52	14284353.65	0.0088	0.0010
Mercury	34397-05-16 01:55 G	14284441.44	14284441.58	14284441.71	0.0088	0.0018
Mercury	34397-08-12 03:07 G	14284529.50	14284529.63	14284529.77	0.0088	0.0025
Mercury	34397-11-08 04:33 G	14284617.57	14284617.69	14284617.82	0.0088	0.0032
Mercury	34398-02-04 06:00 G	14284705.63	14284705.75	14284705.87	0.0088	0.0040
Mercury	34398-05-03 07:12 G	14284793.69	14284793.80	14284793.92	0.0088	0.0048

Mercury	34398-07-30 08:38 G	14284881.76	14284881.86	14284881.97	0.0088	0.0055
Mercury	34398-10-26 10:05 G	14284969.83	14284969.92	14284970.02	0.0088	0.0062
Mercury	34399-01-22 11:31 G	14285057.90	14285057.98	14285058.07	0.0088	0.0070
Mercury	34399-04-20 13:12 G	14285145.98	14285146.05	14285146.11	0.0088	0.0077
Mercury	34399-07-17 14:09 G	14285234.07	14285234.09	14285234.14	0.0088	0.0085
Mars	34408-08-25 00:00 G	14288560.25	14288560.50	14288560.75	0.0088	0.0051
Mars	34410-07-20 09:07 G	14289254.58	14289254.88	14289255.19	0.0088	0.0014
Mars	34412-06-13 21:21 G	14289949.28	14289949.39	14289949.55	0.0088	0.0079
Moon	34420-07-22 17:02 G	14292910.17	14292910.21	14292910.29	0.0088	0.0085
Earth	34420-07-22 19:55 G	14292910.29	14292910.33	14292910.43	0.0088	0.0085 *
Earth	34421-07-25 06:57 G	14293277.65	14293277.79	14293277.97	0.0088	0.0069
Moon	34421-07-25 09:36 G	14293277.75	14293277.90	14293278.08	0.0088	0.0068 *
Moon	34422-07-27 17:02 G	14293645.03	14293645.21	14293645.43	0.0088	0.0053
Earth	34422-07-27 17:45 G	14293645.06	14293645.24	14293645.47	0.0088	0.0053 *
Moon	34423-07-30 04:48 G	14294012.47	14294012.70	14294012.96	0.0088	0.0036
Earth	34423-07-30 05:17 G	14294012.48	14294012.72	14294012.95	0.0088	0.0036 *
Earth	34424-07-31 15:50 G	14294379.92	14294380.16	14294380.42	0.0088	0.0020
Moon	34424-07-31 17:02 G	14294379.98	14294380.21	14294380.47	0.0088	0.0021 *
Moon	34425-08-03 00:00 G	14294747.24	14294747.50	14294747.77	0.0088	0.0004
Earth	34425-08-03 02:53 G	14294747.36	14294747.62	14294747.88	0.0088	0.0004 *
Earth	34426-08-05 13:26 G	14295114.82	14295115.06	14295115.33	0.0088	0.0013
Moon	34426-08-05 16:48 G	14295114.95	14295115.20	14295115.45	0.0088	0.0012 *
Moon	34427-08-07 20:24 G	14295482.13	14295482.35	14295482.61	0.0088	0.0030
Earth	34427-08-08 00:14 G	14295482.28	14295482.51	14295482.77	0.0088	0.0029 *
Earth	34428-08-09 10:48 G	14295849.74	14295849.95	14295850.19	0.0088	0.0045
Moon	34428-08-09 14:09 G	14295849.88	14295850.09	14295850.33	0.0088	0.0045 *
Moon	34429-08-11 18:43 G	14296217.12	14296217.28	14296217.47	0.0088	0.0062
Earth	34429-08-11 21:36 G	14296217.23	14296217.40	14296217.60	0.0088	0.0061 *
Earth	34430-08-14 08:09 G	14296584.73	14296584.84	14296584.98	0.0088	0.0077
Moon	34430-08-14 10:19 G	14296584.82	14296584.93	14296585.08	0.0088	0.0076 *

Venus	34456-10-27 07:55 G	14306155.77	14306155.83	14306155.95	0.0088	0.0082
Venus	34457-06-09 21:21 G	14306381.25	14306381.39	14306381.55	0.0088	0.0064
Venus	34458-01-21 10:05 G	14306606.75	14306606.92	14306607.12	0.0088	0.0048
Venus	34458-09-03 23:31 G	14306832.27	14306832.48	14306832.68	0.0088	0.0032
Venus	34459-04-17 12:14 G	14307057.80	14307058.01	14307058.23	0.0088	0.0015
Venus	34459-11-29 01:12 G	14307283.33	14307283.55	14307283.77	0.0088	0.0001
Venus	34460-07-11 13:55 G	14307508.88	14307509.08	14307509.31	0.0088	0.0019
Venus	34461-02-22 03:07 G	14307734.43	14307734.63	14307734.84	0.0088	0.0034
Venus	34461-10-05 15:36 G	14307959.99	14307960.15	14307960.35	0.0088	0.0052
Venus	34462-05-19 04:48 G	14308185.57	14308185.70	14308185.86	0.0088	0.0068
Venus	34462-12-30 17:31 G	14308411.19	14308411.23	14308411.32	0.0088	0.0084
Mercury	34478-03-11 06:43 G	14313960.72	14313960.78	14313960.84	0.0089	0.0083
Mercury	34478-06-07 09:50 G	14314048.82	14314048.91	14314049.03	0.0089	0.0073
Mercury	34478-09-03 13:41 G	14314136.93	14314137.07	14314137.20	0.0089	0.0062
Mercury	34478-11-30 16:48 G	14314225.06	14314225.20	14314225.37	0.0089	0.0052
Mercury	34479-02-26 20:09 G	14314313.19	14314313.34	14314313.52	0.0089	0.0042
Mercury	34479-05-25 23:45 G	14314401.32	14314401.49	14314401.67	0.0089	0.0031
Mercury	34479-08-22 03:07 G	14314489.46	14314489.63	14314489.82	0.0089	0.0021
Mercury	34479-11-18 06:43 G	14314577.59	14314577.78	14314577.97	0.0089	0.0010
Mercury	34480-02-14 10:05 G	14314665.73	14314665.92	14314666.11	0.0089	0.0001
Mercury	34480-05-12 13:26 G	14314753.87	14314754.06	14314754.25	0.0089	0.0011
Mercury	34480-08-08 16:48 G	14314842.02	14314842.20	14314842.39	0.0089	0.0021
Mercury	34480-11-04 20:09 G	14314930.17	14314930.34	14314930.52	0.0089	0.0031
Mercury	34481-01-31 23:31 G	14315018.32	14315018.48	14315018.65	0.0089	0.0041
Mercury	34481-04-30 02:24 G	14315106.47	14315106.60	14315106.77	0.0089	0.0052
Mercury	34481-07-27 05:45 G	14315194.62	14315194.74	14315194.89	0.0089	0.0062
Mercury	34481-10-23 09:07 G	14315282.79	14315282.88	14315283.00	0.0089	0.0072
Mercury	34482-01-19 12:29 G	14315370.96	14315371.02	14315371.10	0.0089	0.0082
Mars	34490-07-28 14:24 G	14318483.10	14318483.10	14318483.15	0.0089	0.0089
Mars	34492-06-22 22:05 G	14319178.12	14319178.42	14319178.75	0.0089	0.0019

Mars	34494-05-19 01:26 G	14319873.33	14319873.56	14319873.85	0.0089	0.0053
Moon	34503-01-22 00:00 G	14323042.43	14323042.50	14323042.60	0.0089	0.0085
Earth	34503-01-22 00:00 G	14323042.50	14323042.50	14323042.50	0.0089	0.0089 *
Earth	34504-01-24 12:00 G	14323409.87	14323410.00	14323410.17	0.0090	0.0073
Moon	34504-01-24 12:57 G	14323409.93	14323410.04	14323410.18	0.0090	0.0077 *
Moon	34505-01-25 23:02 G	14323777.27	14323777.46	14323777.70	0.0090	0.0052
Earth	34505-01-26 00:43 G	14323777.35	14323777.53	14323777.75	0.0090	0.0056 *
Earth	34506-01-28 13:12 G	14324144.83	14324145.05	14324145.30	0.0090	0.0039
Moon	34506-01-28 16:19 G	14324144.97	14324145.18	14324145.41	0.0090	0.0043 *
Moon	34507-01-30 22:48 G	14324512.20	14324512.45	14324512.71	0.0090	0.0017
Earth	34507-01-31 01:41 G	14324512.34	14324512.57	14324512.84	0.0090	0.0022 *
Earth	34508-02-02 14:38 G	14324879.85	14324880.11	14324880.37	0.0090	0.0004
Moon	34508-02-02 18:14 G	14324880.01	14324880.26	14324880.52	0.0090	0.0008 *
Moon	34509-02-04 00:00 G	14325247.25	14325247.50	14325247.75	0.0090	0.0018
Earth	34509-02-04 03:07 G	14325247.38	14325247.63	14325247.89	0.0090	0.0014 *
Earth	34510-02-06 15:36 G	14325614.91	14325615.15	14325615.39	0.0090	0.0031
Moon	34510-02-06 18:00 G	14325615.02	14325615.25	14325615.52	0.0090	0.0028 *
Moon	34511-02-09 01:55 G	14325982.39	14325982.58	14325982.80	0.0090	0.0052
Earth	34511-02-09 04:19 G	14325982.46	14325982.68	14325982.90	0.0090	0.0048 *
Earth	34512-02-11 16:19 G	14326350.03	14326350.18	14326350.38	0.0090	0.0066
Moon	34512-02-11 17:31 G	14326350.04	14326350.23	14326350.43	0.0090	0.0061 *
Earth	34513-02-13 05:02 G	14326717.64	14326717.71	14326717.84	0.0090	0.0083
Moon	34513-02-13 05:45 G	14326717.69	14326717.74	14326717.82	0.0090	0.0086 *
Venus	34538-05-03 22:19 G	14335928.33	14335928.43	14335928.54	0.0089	0.0078
Venus	34538-12-15 11:31 G	14336153.82	14336153.98	14336154.14	0.0089	0.0061
Venus	34539-07-29 00:14 G	14336379.34	14336379.51	14336379.72	0.0089	0.0044
Venus	34540-03-10 13:26 G	14336604.87	14336605.06	14336605.28	0.0089	0.0028
Venus	34540-10-22 02:53 G	14336830.40	14336830.62	14336830.84	0.0089	0.0010
Venus	34541-06-04 15:50 G	14337055.95	14337056.16	14337056.38	0.0089	0.0007
Venus	34542-01-16 04:48 G	14337281.50	14337281.70	14337281.93	0.0089	0.0024

Venus	34542-08-29 18:14 G	14337507.06	14337507.26	14337507.45	0.0089	0.0041
Venus	34543-04-12 06:57 G	14337732.63	14337732.79	14337732.97	0.0089	0.0057
Venus	34543-11-23 19:41 G	14337958.22	14337958.32	14337958.46	0.0089	0.0074
Mercury	34558-07-01 05:02 G	14343291.70	14343291.71	14343291.74	0.0089	0.0088
Mercury	34558-09-27 06:43 G	14343379.73	14343379.78	14343379.83	0.0089	0.0080
Mercury	34558-12-24 07:55 G	14343467.76	14343467.83	14343467.91	0.0089	0.0073
Mercury	34559-03-22 09:21 G	14343555.80	14343555.89	14343555.98	0.0089	0.0066
Mercury	34559-06-18 10:33 G	14343643.85	14343643.94	14343644.05	0.0089	0.0059
Mercury	34559-09-14 12:00 G	14343731.90	14343732.00	14343732.11	0.0089	0.0051
Mercury	34559-12-11 13:12 G	14343819.94	14343820.05	14343820.18	0.0089	0.0045
Mercury	34560-03-08 14:53 G	14343908.00	14343908.12	14343908.24	0.0089	0.0037
Mercury	34560-06-04 16:05 G	14343996.05	14343996.17	14343996.30	0.0088	0.0030
Mercury	34560-08-31 17:31 G	14344084.10	14344084.23	14344084.36	0.0088	0.0022
Mercury	34560-11-27 18:43 G	14344172.15	14344172.28	14344172.42	0.0088	0.0016
Mercury	34561-02-23 20:09 G	14344260.21	14344260.34	14344260.48	0.0088	0.0008
Mercury	34561-05-22 21:36 G	14344348.27	14344348.40	14344348.54	0.0088	0.0001
Mercury	34561-08-18 23:02 G	14344436.32	14344436.46	14344436.59	0.0088	0.0007
Mercury	34561-11-15 00:14 G	14344524.38	14344524.51	14344524.65	0.0088	0.0015
Mercury	34562-02-11 01:41 G	14344612.44	14344612.57	14344612.71	0.0088	0.0022
Mercury	34562-05-10 02:53 G	14344700.50	14344700.62	14344700.76	0.0088	0.0030
Mercury	34562-08-06 04:19 G	14344788.57	14344788.68	14344788.81	0.0088	0.0037
Mercury	34562-11-02 06:00 G	14344876.63	14344876.75	14344876.87	0.0088	0.0044
Mercury	34563-01-29 07:12 G	14344964.70	14344964.80	14344964.92	0.0088	0.0051
Mercury	34563-04-27 08:38 G	14345052.76	14345052.86	14345052.97	0.0088	0.0059
Mercury	34563-07-24 09:50 G	14345140.83	14345140.91	14345141.01	0.0088	0.0066
Mercury	34563-10-20 11:17 G	14345228.91	14345228.97	14345229.06	0.0088	0.0074
Mercury	34564-01-16 12:57 G	14345316.99	14345317.04	14345317.10	0.0088	0.0081
Mercury	34564-04-13 14:24 G	14345405.10	14345405.10	14345405.11	0.0088	0.0088
Mars	34572-04-10 03:07 G	14348323.45	14348323.63	14348323.85	0.0088	0.0067
Mars	34574-03-05 11:02 G	14349017.66	14349017.96	14349018.27	0.0088	0.0003

Mars	34576-01-28 19:41 G	14349712.12	14349712.32	14349712.56	0.0088	0.0062
Moon	34585-07-25 17:31 G	14353178.11	14353178.23	14353178.38	0.0088	0.0073
Earth	34585-07-25 18:29 G	14353178.16	14353178.27	14353178.40	0.0088	0.0077 *
Moon	34586-07-28 04:05 G	14353545.50	14353545.67	14353545.86	0.0088	0.0065
Earth	34586-07-28 05:02 G	14353545.54	14353545.71	14353545.91	0.0088	0.0061 *
Earth	34587-07-30 15:50 G	14353912.96	14353913.16	14353913.40	0.0088	0.0045
Moon	34587-07-30 18:00 G	14353913.04	14353913.25	14353913.48	0.0088	0.0041 *
Moon	34588-08-01 00:00 G	14354280.26	14354280.50	14354280.75	0.0088	0.0033
Earth	34588-08-01 02:53 G	14354280.38	14354280.62	14354280.87	0.0088	0.0028 *
Earth	34589-08-03 13:41 G	14354647.82	14354648.07	14354648.33	0.0088	0.0012
Moon	34589-08-03 17:31 G	14354647.97	14354648.23	14354648.48	0.0088	0.0007 *
Moon	34590-08-05 21:21 G	14355015.14	14355015.39	14355015.65	0.0088	0.0001
Earth	34590-08-06 00:43 G	14355015.28	14355015.53	14355015.79	0.0088	0.0005 *
Earth	34591-08-08 11:17 G	14355382.73	14355382.97	14355383.23	0.0088	0.0021
Moon	34591-08-08 14:38 G	14355382.88	14355383.11	14355383.38	0.0088	0.0026 *
Moon	34592-08-09 19:55 G	14355750.11	14355750.33	14355750.57	0.0088	0.0033
Earth	34592-08-09 22:05 G	14355750.20	14355750.42	14355750.67	0.0088	0.0038 *
Earth	34593-08-12 08:53 G	14356117.68	14356117.87	14356118.09	0.0088	0.0054
Moon	34593-08-12 10:05 G	14356117.74	14356117.92	14356118.14	0.0088	0.0058 *
Moon	34594-08-14 19:12 G	14356485.15	14356485.30	14356485.48	0.0088	0.0066
Earth	34594-08-14 19:41 G	14356485.18	14356485.32	14356485.49	0.0088	0.0070 *
Earth	34595-08-17 06:29 G	14356852.73	14356852.77	14356852.83	0.0088	0.0086
Venus	34621-01-30 20:09 G	14366150.29	14366150.34	14366150.39	0.0088	0.0086
Venus	34621-09-13 08:53 G	14366375.75	14366375.87	14366376.02	0.0088	0.0069
Venus	34622-04-26 21:36 G	14366601.24	14366601.40	14366601.60	0.0088	0.0054
Venus	34622-12-08 11:02 G	14366826.76	14366826.96	14366827.16	0.0088	0.0037
Venus	34623-07-21 23:45 G	14367052.28	14367052.49	14367052.71	0.0088	0.0021
Venus	34624-03-03 12:57 G	14367277.82	14367278.04	14367278.26	0.0088	0.0004
Venus	34624-10-15 01:41 G	14367503.36	14367503.57	14367503.79	0.0088	0.0013
Venus	34625-05-28 14:24 G	14367728.90	14367729.10	14367729.32	0.0088	0.0029

Venus	34626-01-09 03:21 G	14367954.46	14367954.64	14367954.84	0.0088	0.0046
Venus	34626-08-22 16:48 G	14368180.04	14368180.20	14368180.35	0.0088	0.0062
Venus	34627-04-05 05:17 G	14368405.64	14368405.72	14368405.84	0.0088	0.0078
Mercury	34642-09-11 02:09 G	14374043.58	14374043.59	14374043.62	0.0089	0.0088
Mercury	34642-12-08 05:31 G	14374131.66	14374131.73	14374131.84	0.0089	0.0078
Mercury	34643-03-06 09:07 G	14374219.77	14374219.88	14374220.02	0.0089	0.0067
Mercury	34643-06-02 12:29 G	14374307.89	14374308.02	14374308.18	0.0089	0.0057
Mercury	34643-08-29 16:05 G	14374396.02	14374396.17	14374396.34	0.0089	0.0046
Mercury	34643-11-25 19:26 G	14374484.15	14374484.31	14374484.50	0.0089	0.0036
Mercury	34644-02-21 23:02 G	14374572.28	14374572.46	14374572.65	0.0089	0.0025
Mercury	34644-05-20 02:24 G	14374660.42	14374660.60	14374660.79	0.0089	0.0015
Mercury	34644-08-16 06:00 G	14374748.56	14374748.75	14374748.94	0.0089	0.0004
Mercury	34644-11-12 09:21 G	14374836.70	14374836.89	14374837.08	0.0089	0.0006
Mercury	34645-02-08 12:29 G	14374924.85	14374925.02	14374925.22	0.0089	0.0017
Mercury	34645-05-07 15:50 G	14375012.99	14375013.16	14375013.35	0.0089	0.0027
Mercury	34645-08-03 19:12 G	14375101.14	14375101.30	14375101.48	0.0089	0.0037
Mercury	34645-10-30 22:48 G	14375189.29	14375189.45	14375189.61	0.0089	0.0047
Mercury	34646-01-27 01:41 G	14375277.45	14375277.57	14375277.73	0.0089	0.0058
Mercury	34646-04-25 05:02 G	14375365.61	14375365.71	14375365.85	0.0089	0.0068
Mercury	34646-07-22 08:24 G	14375453.78	14375453.85	14375453.95	0.0089	0.0078
Mercury	34646-10-18 11:45 G	14375541.98	14375541.99	14375542.02	0.0089	0.0088
Mars	34656-02-07 06:43 G	14378940.51	14378940.78	14378941.10	0.0089	0.0038
Mars	34658-01-02 13:41 G	14379635.79	14379636.07	14379636.38	0.0089	0.0034
Moon	34668-01-24 19:41 G	14383310.24	14383310.32	14383310.45	0.0089	0.0082
Earth	34668-01-24 22:19 G	14383310.35	14383310.43	14383310.56	0.0089	0.0082 *
Earth	34669-01-26 11:02 G	14383677.80	14383677.96	14383678.16	0.0089	0.0065
Moon	34669-01-26 13:55 G	14383677.93	14383678.08	14383678.27	0.0089	0.0066 *
Moon	34670-01-28 19:55 G	14384045.13	14384045.33	14384045.57	0.0090	0.0047
Earth	34670-01-28 23:31 G	14384045.29	14384045.48	14384045.72	0.0090	0.0048 *
Earth	34671-01-31 12:29 G	14384412.79	14384413.02	14384413.27	0.0090	0.0030



Moon	34671-01-31 15:50 G	14384412.93	14384413.16	14384413.41	0.0090	0.0031	*
Moon	34672-02-02 22:05 G	14384780.17	14384780.42	14384780.68	0.0090	0.0011	
Earth	34672-02-03 01:12 G	14384780.30	14384780.55	14384780.81	0.0090	0.0013	*
Earth	34673-02-04 13:41 G	14385147.82	14385148.07	14385148.33	0.0090	0.0006	
Moon	34673-02-04 16:19 G	14385147.91	14385148.18	14385148.44	0.0090	0.0004	*
Moon	34674-02-07 01:26 G	14385515.32	14385515.56	14385515.80	0.0090	0.0024	
Earth	34674-02-07 02:09 G	14385515.35	14385515.59	14385515.85	0.0090	0.0023	*
Earth	34675-02-09 14:38 G	14385882.90	14385883.11	14385883.36	0.0090	0.0041	
Moon	34675-02-09 15:21 G	14385882.90	14385883.14	14385883.38	0.0090	0.0038	*
Earth	34676-02-12 03:07 G	14386250.45	14386250.63	14386250.85	0.0090	0.0058	
Moon	34676-02-12 04:19 G	14386250.52	14386250.68	14386250.89	0.0090	0.0060	*
Moon	34677-02-13 13:12 G	14386617.93	14386618.05	14386618.23	0.0090	0.0074	
Earth	34677-02-13 15:50 G	14386618.04	14386618.16	14386618.32	0.0090	0.0075	*
Venus	34702-08-07 10:05 G	14395922.84	14395922.92	14395923.00	0.0089	0.0083	
Venus	34703-03-20 22:48 G	14396148.32	14396148.45	14396148.61	0.0089	0.0066	
Venus	34703-11-01 12:00 G	14396373.83	14396374.00	14396374.19	0.0089	0.0049	
Venus	34704-06-14 01:12 G	14396599.35	14396599.55	14396599.76	0.0089	0.0032	
Venus	34705-01-25 14:24 G	14396824.89	14396825.10	14396825.32	0.0089	0.0016	
Venus	34705-09-08 03:36 G	14397050.43	14397050.65	14397050.87	0.0089	0.0002	
Venus	34706-04-21 16:33 G	14397275.98	14397276.19	14397276.41	0.0089	0.0018	
Venus	34706-12-03 05:31 G	14397501.54	14397501.73	14397501.94	0.0089	0.0035	
Venus	34707-07-16 18:14 G	14397727.11	14397727.26	14397727.46	0.0089	0.0053	
Venus	34708-02-27 07:55 G	14397952.70	14397952.83	14397952.97	0.0089	0.0068	
Venus	34708-10-09 20:38 G	14398178.32	14398178.36	14398178.44	0.0089	0.0085	
Mercury	34723-03-30 05:02 G	14403462.68	14403462.71	14403462.77	0.0089	0.0084	
Mercury	34723-06-26 06:14 G	14403550.71	14403550.76	14403550.85	0.0089	0.0077	
Mercury	34723-09-22 07:55 G	14403638.75	14403638.83	14403638.92	0.0089	0.0069	
Mercury	34723-12-19 09:21 G	14403726.80	14403726.89	14403726.99	0.0089	0.0062	
Mercury	34724-03-16 10:33 G	14403814.84	14403814.94	14403815.05	0.0089	0.0055	
Mercury	34724-06-12 11:45 G	14403902.89	14403902.99	14403903.12	0.0089	0.0048	

Mercury	34724-09-08 13:12 G	14403990.94	14403991.05	14403991.18	0.0089	0.0040
Mercury	34724-12-05 14:53 G	14404078.99	14404079.12	14404079.24	0.0089	0.0033
Mercury	34725-03-03 16:05 G	14404167.04	14404167.17	14404167.30	0.0089	0.0026
Mercury	34725-05-30 17:31 G	14404255.10	14404255.23	14404255.36	0.0088	0.0018
Mercury	34725-08-26 18:43 G	14404343.15	14404343.28	14404343.42	0.0088	0.0012
Mercury	34725-11-22 20:09 G	14404431.21	14404431.34	14404431.48	0.0088	0.0004
Mercury	34726-02-18 21:36 G	14404519.26	14404519.40	14404519.54	0.0088	0.0004
Mercury	34726-05-17 22:48 G	14404607.32	14404607.45	14404607.59	0.0088	0.0012
Mercury	34726-08-14 00:14 G	14404695.38	14404695.51	14404695.65	0.0088	0.0018
Mercury	34726-11-10 01:41 G	14404783.44	14404783.57	14404783.70	0.0088	0.0026
Mercury	34727-02-06 02:53 G	14404871.50	14404871.62	14404871.76	0.0088	0.0033
Mercury	34727-05-05 04:19 G	14404959.57	14404959.68	14404959.81	0.0088	0.0041
Mercury	34727-08-01 05:45 G	14405047.63	14405047.74	14405047.86	0.0088	0.0048
Mercury	34727-10-28 06:57 G	14405135.70	14405135.79	14405135.91	0.0088	0.0056
Mercury	34728-01-24 08:24 G	14405223.77	14405223.85	14405223.96	0.0088	0.0063
Mercury	34728-04-21 10:05 G	14405311.84	14405311.92	14405312.00	0.0088	0.0070
Mercury	34728-07-18 11:17 G	14405399.92	14405399.97	14405400.04	0.0088	0.0078
Mercury	34728-10-14 12:43 G	14405488.00	14405488.03	14405488.07	0.0088	0.0085
Mars	34735-11-26 06:00 G	14408086.69	14408086.75	14408086.89	0.0088	0.0084
Mars	34737-10-20 12:29 G	14408780.74	14408781.02	14408781.34	0.0088	0.0020
Mars	34739-09-14 21:21 G	14409475.13	14409475.39	14409475.66	0.0088	0.0046
Jupiter	34745-05-18 12:43 G	14411547.68	14411548.03	14411548.43	0.0088	0.0064
Moon	34749-07-27 05:02 G	14413078.65	14413078.71	14413078.79	0.0088	0.0084
Earth	34749-07-27 05:45 G	14413078.72	14413078.74	14413078.82	0.0088	0.0086 *
Earth	34750-07-29 17:17 G	14413446.07	14413446.22	14413446.38	0.0088	0.0069
Moon	34750-07-29 19:41 G	14413446.19	14413446.32	14413446.48	0.0088	0.0071 *
Moon	34751-08-01 00:29 G	14413813.32	14413813.52	14413813.74	0.0088	0.0051
Earth	34751-08-01 03:50 G	14413813.47	14413813.66	14413813.88	0.0088	0.0053 *
Earth	34752-08-02 14:24 G	14414180.88	14414181.10	14414181.35	0.0088	0.0037
Moon	34752-08-02 18:14 G	14414181.03	14414181.26	14414181.50	0.0088	0.0037 *

Moon	34753-08-04 21:50 G	14414548.18	14414548.41	14414548.68	0.0088	0.0019
Earth	34753-08-05 01:41 G	14414548.32	14414548.57	14414548.83	0.0088	0.0020 *
Earth	34754-08-07 12:29 G	14414915.76	14414916.02	14414916.28	0.0088	0.0003
Moon	34754-08-07 15:07 G	14414915.87	14414916.13	14414916.40	0.0088	0.0005 *
Moon	34755-08-09 20:53 G	14415283.13	14415283.37	14415283.63	0.0088	0.0014
Earth	34755-08-09 23:17 G	14415283.21	14415283.47	14415283.73	0.0088	0.0013 *
Earth	34756-08-11 09:50 G	14415650.67	14415650.91	14415651.16	0.0088	0.0030
Moon	34756-08-11 10:33 G	14415650.70	14415650.94	14415651.20	0.0088	0.0029 *
Earth	34757-08-13 20:09 G	14416018.15	14416018.34	14416018.59	0.0088	0.0047
Moon	34757-08-13 21:07 G	14416018.19	14416018.38	14416018.60	0.0088	0.0048 *
Moon	34758-08-16 06:00 G	14416385.57	14416385.75	14416385.94	0.0088	0.0062
Earth	34758-08-16 07:12 G	14416385.64	14416385.80	14416386.00	0.0088	0.0063 *
Earth	34759-08-18 18:00 G	14416753.15	14416753.25	14416753.37	0.0088	0.0079
Moon	34759-08-18 20:53 G	14416753.28	14416753.37	14416753.48	0.0088	0.0080 *
Venus	34785-12-16 20:24 G	14426370.26	14426370.35	14426370.49	0.0088	0.0075
Venus	34786-07-30 10:05 G	14426595.75	14426595.92	14426596.09	0.0088	0.0058
Venus	34787-03-12 22:48 G	14426821.26	14426821.45	14426821.65	0.0088	0.0041
Venus	34787-10-24 11:45 G	14427046.78	14427046.99	14427047.21	0.0088	0.0025
Venus	34788-06-06 00:43 G	14427272.31	14427272.53	14427272.75	0.0088	0.0009
Venus	34789-01-17 13:41 G	14427497.85	14427498.07	14427498.29	0.0088	0.0008
Venus	34789-08-31 02:24 G	14427723.40	14427723.60	14427723.83	0.0088	0.0025
Venus	34790-04-13 15:21 G	14427948.96	14427949.14	14427949.35	0.0088	0.0041
Venus	34790-11-25 04:19 G	14428174.52	14428174.68	14428174.86	0.0088	0.0057
Venus	34791-07-08 16:48 G	14428400.11	14428400.20	14428400.35	0.0088	0.0074
Mercury	34807-06-09 01:12 G	14434214.50	14434214.55	14434214.63	0.0089	0.0083
Mercury	34807-09-05 04:48 G	14434302.60	14434302.70	14434302.82	0.0089	0.0072
Mercury	34807-12-02 08:09 G	14434390.72	14434390.84	14434390.99	0.0089	0.0062
Mercury	34808-02-28 11:45 G	14434478.84	14434478.99	14434479.15	0.0089	0.0051
Mercury	34808-05-26 15:07 G	14434566.97	14434567.13	14434567.31	0.0089	0.0041
Mercury	34808-08-22 18:43 G	14434655.11	14434655.28	14434655.46	0.0089	0.0030

Mercury	34808-11-18 22:05 G	14434743.24	14434743.42	14434743.61	0.0089	0.0020
Mercury	34809-02-15 01:41 G	14434831.38	14434831.57	14434831.76	0.0089	0.0009
Mercury	34809-05-14 05:02 G	14434919.52	14434919.71	14434919.90	0.0089	0.0002
Mercury	34809-08-10 08:24 G	14435007.67	14435007.85	14435008.04	0.0089	0.0012
Mercury	34809-11-06 11:45 G	14435095.81	14435095.99	14435096.18	0.0089	0.0022
Mercury	34810-02-02 14:53 G	14435183.96	14435184.12	14435184.31	0.0089	0.0033
Mercury	34810-05-01 18:29 G	14435272.11	14435272.27	14435272.44	0.0089	0.0043
Mercury	34810-07-28 21:50 G	14435360.27	14435360.41	14435360.57	0.0089	0.0053
Mercury	34810-10-25 01:12 G	14435448.43	14435448.55	14435448.69	0.0089	0.0063
Mercury	34811-01-21 04:05 G	14435536.59	14435536.67	14435536.80	0.0089	0.0074
Mercury	34811-04-19 07:26 G	14435624.77	14435624.81	14435624.89	0.0089	0.0084
Mars	34819-09-22 16:33 G	14438702.97	14438703.19	14438703.47	0.0089	0.0056
Mars	34821-08-18 00:43 G	14439398.22	14439398.53	14439398.86	0.0089	0.0016
Mars	34823-07-14 06:14 G	14440093.69	14440093.76	14440093.87	0.0089	0.0086
Moon	34832-01-25 12:00 G	14443210.97	14443211.00	14443211.10	0.0089	0.0087
Moon	34833-01-26 18:00 G	14443578.14	14443578.25	14443578.38	0.0089	0.0078
Earth	34833-01-26 21:07 G	14443578.26	14443578.38	14443578.55	0.0089	0.0074 *
Earth	34834-01-29 09:36 G	14443945.72	14443945.90	14443946.12	0.0090	0.0057
Moon	34834-01-29 13:12 G	14443945.86	14443946.05	14443946.29	0.0090	0.0052 *
Moon	34835-01-31 19:55 G	14444313.14	14444313.33	14444313.57	0.0090	0.0044
Earth	34835-01-31 22:33 G	14444313.22	14444313.44	14444313.69	0.0090	0.0039 *
Earth	34836-02-03 11:31 G	14444680.73	14444680.98	14444681.23	0.0090	0.0021
Moon	34836-02-03 13:12 G	14444680.80	14444681.05	14444681.32	0.0090	0.0017 *
Moon	34837-02-04 23:17 G	14445048.23	14445048.47	14445048.72	0.0090	0.0008
Earth	34837-02-05 00:00 G	14445048.25	14445048.50	14445048.76	0.0090	0.0004 *
Moon	34838-02-07 11:31 G	14445415.73	14445415.98	14445416.25	0.0090	0.0019
Earth	34838-02-07 12:29 G	14445415.77	14445416.02	14445416.28	0.0090	0.0015 *
Earth	34839-02-10 01:12 G	14445783.31	14445783.55	14445783.79	0.0090	0.0032
Moon	34839-02-10 02:38 G	14445783.38	14445783.61	14445783.86	0.0090	0.0028 *
Moon	34840-02-12 10:33 G	14446150.76	14446150.94	14446151.17	0.0090	0.0055

Earth	34840-02-12 13:26 G	14446150.87	14446151.06	14446151.30	0.0090	0.0050 *
Earth	34841-02-14 01:41 G	14446518.43	14446518.57	14446518.77	0.0090	0.0068
Moon	34841-02-14 05:17 G	14446518.56	14446518.72	14446518.92	0.0090	0.0063 *
Moon	34842-02-16 11:17 G	14446885.95	14446885.97	14446886.02	0.0090	0.0089
Earth	34842-02-16 14:24 G	14446886.05	14446886.10	14446886.21	0.0090	0.0085
Venus	34866-11-08 21:36 G	14455917.37	14455917.40	14455917.45	0.0089	0.0088
Venus	34867-06-22 10:19 G	14456142.82	14456142.93	14456143.09	0.0089	0.0072
Venus	34868-02-02 23:45 G	14456368.33	14456368.49	14456368.68	0.0089	0.0055
Venus	34868-09-15 12:57 G	14456593.85	14456594.04	14456594.25	0.0089	0.0038
Venus	34869-04-29 01:55 G	14456819.38	14456819.58	14456819.80	0.0089	0.0021
Venus	34869-12-10 15:07 G	14457044.91	14457045.13	14457045.35	0.0089	0.0004
Venus	34870-07-24 04:05 G	14457270.46	14457270.67	14457270.89	0.0089	0.0013
Venus	34871-03-06 17:17 G	14457496.02	14457496.22	14457496.43	0.0089	0.0029
Venus	34871-10-18 06:14 G	14457721.58	14457721.76	14457721.95	0.0089	0.0046
Venus	34872-05-30 18:57 G	14457947.16	14457947.29	14457947.46	0.0089	0.0063
Venus	34873-01-11 08:24 G	14458172.76	14458172.85	14458172.95	0.0089	0.0079
Mercury	34887-09-28 03:50 G	14463545.64	14463545.66	14463545.69	0.0089	0.0087
Mercury	34887-12-25 05:02 G	14463633.67	14463633.71	14463633.78	0.0089	0.0080
Mercury	34888-03-22 06:29 G	14463721.70	14463721.77	14463721.86	0.0089	0.0072
Mercury	34888-06-18 07:55 G	14463809.75	14463809.83	14463809.93	0.0089	0.0065
Mercury	34888-09-14 09:21 G	14463897.79	14463897.89	14463897.99	0.0089	0.0058
Mercury	34888-12-11 10:33 G	14463985.84	14463985.94	14463986.06	0.0089	0.0051
Mercury	34889-03-09 12:00 G	14464073.89	14464074.00	14464074.12	0.0089	0.0043
Mercury	34889-06-05 13:26 G	14464161.94	14464162.06	14464162.18	0.0088	0.0036
Mercury	34889-09-01 14:38 G	14464249.99	14464250.11	14464250.24	0.0088	0.0029
Mercury	34889-11-28 16:05 G	14464338.04	14464338.17	14464338.30	0.0088	0.0021
Mercury	34890-02-24 17:31 G	14464426.10	14464426.23	14464426.36	0.0088	0.0014
Mercury	34890-05-23 18:57 G	14464514.15	14464514.29	14464514.42	0.0088	0.0007
Mercury	34890-08-19 20:09 G	14464602.21	14464602.34	14464602.48	0.0088	0.0003
Mercury	34890-11-15 21:36 G	14464690.27	14464690.40	14464690.54	0.0088	0.0008

Mercury	34891-02-11 22:48 G	14464778.32	14464778.45	14464778.59	0.0088	0.0016
Mercury	34891-05-11 00:14 G	14464866.38	14464866.51	14464866.65	0.0088	0.0023
Mercury	34891-08-07 01:41 G	14464954.45	14464954.57	14464954.70	0.0088	0.0030
Mercury	34891-11-03 02:53 G	14465042.51	14465042.62	14465042.75	0.0088	0.0038
Mercury	34892-01-30 04:33 G	14465130.57	14465130.69	14465130.81	0.0088	0.0045
Mercury	34892-04-27 05:45 G	14465218.64	14465218.74	14465218.86	0.0088	0.0052
Mercury	34892-07-24 07:12 G	14465306.71	14465306.80	14465306.91	0.0088	0.0059
Mercury	34892-10-20 08:38 G	14465394.78	14465394.86	14465394.95	0.0088	0.0067
Mercury	34893-01-16 09:50 G	14465482.85	14465482.91	14465482.99	0.0088	0.0075
Mercury	34893-04-14 11:17 G	14465570.93	14465570.97	14465571.03	0.0088	0.0082
Mars	34901-06-05 17:31 G	14468543.95	14468544.23	14468544.51	0.0088	0.0036
Mars	34903-04-30 23:02 G	14469238.19	14469238.46	14469238.77	0.0088	0.0029
Jupiter	34911-07-27 08:24 G	14472247.57	14472247.85	14472248.27	0.0088	0.0068
Moon	34914-07-30 00:43 G	14473346.41	14473346.53	14473346.69	0.0088	0.0074
Earth	34914-07-30 04:33 G	14473346.59	14473346.69	14473346.82	0.0088	0.0078 *
Earth	34915-08-01 15:07 G	14473713.97	14473714.13	14473714.34	0.0088	0.0062
Moon	34915-08-01 19:12 G	14473714.13	14473714.30	14473714.47	0.0088	0.0065 *
Moon	34916-08-02 23:02 G	14474081.25	14474081.46	14474081.70	0.0088	0.0041
Earth	34916-08-03 02:24 G	14474081.39	14474081.60	14474081.83	0.0088	0.0045 *
Earth	34917-08-05 13:12 G	14474448.81	14474449.05	14474449.30	0.0088	0.0028
Moon	34917-08-05 15:36 G	14474448.93	14474449.15	14474449.42	0.0088	0.0033 *
Moon	34918-08-07 23:02 G	14474816.22	14474816.46	14474816.71	0.0088	0.0008
Earth	34918-08-08 00:00 G	14474816.25	14474816.50	14474816.77	0.0088	0.0012 *
Earth	34919-08-10 10:48 G	14475183.70	14475183.95	14475184.21	0.0088	0.0006
Moon	34919-08-10 11:17 G	14475183.70	14475183.97	14475184.24	0.0088	0.0002 *
Earth	34920-08-11 21:36 G	14475551.15	14475551.40	14475551.66	0.0088	0.0022
Moon	34920-08-11 22:19 G	14475551.21	14475551.43	14475551.69	0.0088	0.0027 *
Moon	34921-08-14 05:45 G	14475918.51	14475918.74	14475918.99	0.0088	0.0035
Earth	34921-08-14 08:09 G	14475918.63	14475918.84	14475919.09	0.0088	0.0039 *
Earth	34922-08-16 18:29 G	14476286.10	14476286.27	14476286.50	0.0088	0.0056

Moon	34922-08-16 21:36 G	14476286.23	14476286.40	14476286.60	0.0088	0.0060 *
Moon	34923-08-19 01:41 G	14476653.44	14476653.57	14476653.77	0.0088	0.0068
Earth	34923-08-19 05:45 G	14476653.61	14476653.74	14476653.90	0.0088	0.0072 *
Venus	34950-03-21 07:55 G	14486364.76	14486364.83	14486364.96	0.0088	0.0080
Venus	34950-11-01 21:21 G	14486590.24	14486590.39	14486590.55	0.0088	0.0063
Venus	34951-06-15 10:19 G	14486815.75	14486815.93	14486816.13	0.0088	0.0046
Venus	34952-01-26 23:17 G	14487041.27	14487041.47	14487041.69	0.0088	0.0030
Venus	34952-09-08 12:14 G	14487266.81	14487267.01	14487267.24	0.0088	0.0015
Venus	34953-04-22 01:26 G	14487492.34	14487492.56	14487492.78	0.0088	0.0003
Venus	34953-12-03 14:09 G	14487717.89	14487718.09	14487718.32	0.0088	0.0019
Venus	34954-07-17 03:07 G	14487943.44	14487943.63	14487943.85	0.0088	0.0036
Venus	34955-02-27 16:19 G	14488169.01	14488169.18	14488169.36	0.0088	0.0052
Venus	34955-10-11 05:17 G	14488394.58	14488394.72	14488394.86	0.0088	0.0068
Venus	34956-05-23 17:45 G	14488620.20	14488620.24	14488620.33	0.0088	0.0084
Mercury	34971-12-08 20:38 G	14494297.36	14494297.36	14494297.42	0.0089	0.0088
Mercury	34972-03-06 00:29 G	14494385.44	14494385.52	14494385.62	0.0089	0.0077
Mercury	34972-06-02 04:05 G	14494473.55	14494473.67	14494473.80	0.0089	0.0066
Mercury	34972-08-29 07:26 G	14494561.67	14494561.81	14494561.97	0.0089	0.0056
Mercury	34972-11-25 11:02 G	14494649.80	14494649.96	14494650.13	0.0089	0.0045
Mercury	34973-02-21 14:24 G	14494737.93	14494738.10	14494738.28	0.0089	0.0035
Mercury	34973-05-20 18:00 G	14494826.07	14494826.25	14494826.43	0.0089	0.0024
Mercury	34973-08-16 21:21 G	14494914.21	14494914.39	14494914.58	0.0089	0.0014
Mercury	34973-11-13 00:43 G	14495002.35	14495002.53	14495002.73	0.0089	0.0004
Mercury	34974-02-09 04:19 G	14495090.49	14495090.68	14495090.87	0.0089	0.0007
Mercury	34974-05-08 07:26 G	14495178.63	14495178.81	14495179.00	0.0089	0.0018
Mercury	34974-08-04 10:48 G	14495266.78	14495266.95	14495267.14	0.0089	0.0028
Mercury	34974-10-31 14:24 G	14495354.93	14495355.10	14495355.27	0.0089	0.0038
Mercury	34975-01-27 17:31 G	14495443.08	14495443.23	14495443.40	0.0089	0.0049
Mercury	34975-04-25 20:53 G	14495531.24	14495531.37	14495531.52	0.0089	0.0059
Mercury	34975-07-23 00:14 G	14495619.40	14495619.51	14495619.64	0.0089	0.0069

Mercury	34975-10-19 03:50 G	14495707.58	14495707.66	14495707.74	0.0089	0.0079
Mars	34983-05-07 23:02 G	14498465.29	14498465.46	14498465.63	0.0089	0.0076
Mars	34985-04-02 09:50 G	14499160.59	14499160.91	14499161.24	0.0089	0.0004
Mars	34987-02-26 16:48 G	14499856.01	14499856.20	14499856.43	0.0089	0.0068
Earth	34997-01-27 07:55 G	14503478.76	14503478.83	14503478.95	0.0089	0.0083
Moon	34997-01-27 11:17 G	14503478.88	14503478.97	14503479.08	0.0089	0.0083 *
Moon	34998-01-29 18:29 G	14503846.10	14503846.27	14503846.45	0.0090	0.0065
Earth	34998-01-29 20:53 G	14503846.20	14503846.37	14503846.55	0.0090	0.0065 *
Earth	34999-02-01 08:53 G	14504213.68	14504213.87	14504214.11	0.0090	0.0048
Moon	34999-02-01 10:19 G	14504213.71	14504213.93	14504214.16	0.0090	0.0048 *
Earth	35000-02-03 21:50 G	14504581.18	14504581.41	14504581.66	0.0090	0.0030
Moon	35000-02-03 21:50 G	14504581.19	14504581.41	14504581.66	0.0090	0.0030 *

# 36TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 36th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	35001-02-06 09:21 G		14504948.63	14504948.89	14504949.16	0.0090	0.0012	
Earth	35001-02-06 10:33 G		14504948.69	14504948.94	14504949.20	0.0090	0.0012 *	
Earth	35002-02-08 23:17 G		14505316.21	14505316.47	14505316.73	0.0090	0.0006	
Moon	35002-02-09 01:55 G		14505316.33	14505316.58	14505316.83	0.0090	0.0006 *	
Moon	35003-02-11 08:38 G		14505683.62	14505683.86	14505684.13	0.0090	0.0024	
Earth	35003-02-11 12:00 G		14505683.75	14505684.00	14505684.25	0.0090	0.0024 *	



Earth	35004-02-14 00:14 G	14506051.29	14506051.51	14506051.75	0.0090	0.0042
Moon	35004-02-14 03:50 G	14506051.44	14506051.66	14506051.90	0.0090	0.0041 *
Moon	35005-02-15 09:07 G	14506418.71	14506418.88	14506419.09	0.0090	0.0060
Earth	35005-02-15 12:43 G	14506418.86	14506419.03	14506419.24	0.0090	0.0060 *
Earth	35006-02-18 01:26 G	14506786.44	14506786.56	14506786.70	0.0090	0.0077
Moon	35006-02-18 04:33 G	14506786.57	14506786.69	14506786.84	0.0090	0.0076 *
Venus	35031-09-25 22:48 G	14516137.34	14516137.45	14516137.57	0.0089	0.0076
Venus	35032-05-08 11:31 G	14516362.84	14516362.98	14516363.16	0.0089	0.0060
Venus	35032-12-20 00:57 G	14516588.35	14516588.54	14516588.74	0.0089	0.0042
Venus	35033-08-02 13:41 G	14516813.88	14516814.07	14516814.30	0.0089	0.0027
Venus	35034-03-16 03:07 G	14517039.41	14517039.63	14517039.85	0.0089	0.0009
Venus	35034-10-27 16:05 G	14517264.95	14517265.17	14517265.39	0.0089	0.0008
Venus	35035-06-10 05:02 G	14517490.50	14517490.71	14517490.93	0.0089	0.0024
Venus	35036-01-21 18:00 G	14517716.07	14517716.25	14517716.46	0.0089	0.0041
Venus	35036-09-03 07:12 G	14517941.64	14517941.80	14517941.97	0.0089	0.0057
Venus	35037-04-16 19:55 G	14518167.23	14518167.33	14518167.47	0.0089	0.0074
Mercury	35052-06-26 03:50 G	14523716.62	14523716.66	14523716.71	0.0089	0.0083
Mercury	35052-09-22 05:02 G	14523804.65	14523804.71	14523804.79	0.0089	0.0076
Mercury	35052-12-19 06:29 G	14523892.69	14523892.77	14523892.86	0.0089	0.0068
Mercury	35053-03-17 07:41 G	14523980.74	14523980.82	14523980.93	0.0089	0.0062
Mercury	35053-06-13 09:21 G	14524068.78	14524068.89	14524069.00	0.0089	0.0054
Mercury	35053-09-09 10:33 G	14524156.83	14524156.94	14524157.06	0.0088	0.0047
Mercury	35053-12-06 12:00 G	14524244.88	14524245.00	14524245.12	0.0088	0.0039
Mercury	35054-03-04 13:12 G	14524332.93	14524333.05	14524333.18	0.0088	0.0032
Mercury	35054-05-31 14:38 G	14524420.99	14524421.11	14524421.24	0.0088	0.0025
Mercury	35054-08-27 16:05 G	14524509.04	14524509.17	14524509.30	0.0088	0.0017
Mercury	35054-11-23 17:31 G	14524597.09	14524597.23	14524597.36	0.0088	0.0010
Mercury	35055-02-19 18:43 G	14524685.15	14524685.28	14524685.42	0.0088	0.0004
Mercury	35055-05-18 20:09 G	14524773.21	14524773.34	14524773.48	0.0088	0.0005
Mercury	35055-08-14 21:36 G	14524861.26	14524861.40	14524861.53	0.0088	0.0012

Mercury	35055-11-10 22:48 G	14524949.32	14524949.45	14524949.59	0.0088	0.0020
Mercury	35056-02-07 00:14 G	14525037.38	14525037.51	14525037.64	0.0088	0.0027
Mercury	35056-05-05 01:41 G	14525125.45	14525125.57	14525125.70	0.0088	0.0034
Mercury	35056-08-01 02:53 G	14525213.51	14525213.62	14525213.75	0.0088	0.0042
Mercury	35056-10-28 04:19 G	14525301.57	14525301.68	14525301.80	0.0088	0.0049
Mercury	35057-01-24 05:31 G	14525389.64	14525389.73	14525389.85	0.0088	0.0057
Mercury	35057-04-22 07:12 G	14525477.71	14525477.80	14525477.90	0.0088	0.0063
Mercury	35057-07-19 08:38 G	14525565.78	14525565.86	14525565.94	0.0088	0.0071
Mercury	35057-10-15 09:50 G	14525653.86	14525653.91	14525653.98	0.0088	0.0078
Mercury	35058-01-11 11:17 G	14525741.95	14525741.97	14525742.01	0.0088	0.0086
Mars	35065-01-19 22:19 G	14528307.21	14528307.43	14528307.70	0.0088	0.0053
Mars	35066-12-15 03:21 G	14529001.34	14529001.64	14529001.95	0.0088	0.0012
Mars	35068-11-08 09:07 G	14529695.76	14529695.88	14529696.05	0.0088	0.0077
Earth	35078-07-30 15:36 G	14533247.14	14533247.15	14533247.21	0.0088	0.0087
Moon	35078-07-30 18:57 G	14533247.26	14533247.29	14533247.40	0.0088	0.0085
Moon	35079-08-02 00:14 G	14533614.39	14533614.51	14533614.66	0.0088	0.0073
Earth	35079-08-02 02:53 G	14533614.48	14533614.62	14533614.79	0.0088	0.0070 *
Earth	35080-08-03 14:09 G	14533981.89	14533982.09	14533982.30	0.0088	0.0053
Moon	35080-08-03 16:05 G	14533981.96	14533982.17	14533982.39	0.0088	0.0051 *
Moon	35081-08-05 23:45 G	14534349.28	14534349.49	14534349.73	0.0088	0.0039
Earth	35081-08-06 00:43 G	14534349.31	14534349.53	14534349.78	0.0088	0.0037 *
Moon	35082-08-08 10:48 G	14534716.70	14534716.95	14534717.22	0.0088	0.0017
Earth	35082-08-08 11:31 G	14534716.74	14534716.98	14534717.24	0.0088	0.0020 *
Earth	35083-08-10 22:33 G	14535084.18	14535084.44	14535084.70	0.0088	0.0003
Moon	35083-08-11 00:14 G	14535084.26	14535084.51	14535084.76	0.0088	0.0005 *
Moon	35084-08-12 06:29 G	14535451.53	14535451.77	14535452.05	0.0088	0.0017
Earth	35084-08-12 09:21 G	14535451.64	14535451.89	14535452.15	0.0088	0.0014 *
Earth	35085-08-14 19:55 G	14535819.09	14535819.33	14535819.58	0.0088	0.0031
Moon	35085-08-14 23:17 G	14535819.24	14535819.47	14535819.72	0.0088	0.0029 *
Moon	35086-08-17 03:07 G	14536186.43	14536186.63	14536186.85	0.0088	0.0050

Earth	35086-08-17 06:29 G	14536186.57	14536186.77	14536187.00	0.0088	0.0048	*
Earth	35087-08-19 17:02 G	14536554.06	14536554.21	14536554.40	0.0088	0.0065	
Moon	35087-08-19 20:53 G	14536554.20	14536554.37	14536554.56	0.0088	0.0063	*
Moon	35088-08-21 01:12 G	14536921.50	14536921.55	14536921.65	0.0088	0.0084	
Earth	35088-08-21 04:05 G	14536921.59	14536921.67	14536921.78	0.0088	0.0081	*
Venus	35114-06-24 19:55 G	14546359.27	14546359.33	14546359.41	0.0088	0.0084	
Venus	35115-02-05 08:53 G	14546584.74	14546584.87	14546585.02	0.0088	0.0067	
Venus	35115-09-18 21:50 G	14546810.25	14546810.41	14546810.60	0.0088	0.0051	
Venus	35116-05-01 10:48 G	14547035.76	14547035.95	14547036.17	0.0088	0.0035	
Venus	35116-12-12 23:45 G	14547261.29	14547261.49	14547261.72	0.0088	0.0019	
Venus	35117-07-26 13:12 G	14547486.83	14547487.05	14547487.27	0.0088	0.0002	
Venus	35118-03-09 01:55 G	14547712.37	14547712.58	14547712.81	0.0088	0.0014	
Venus	35118-10-20 14:53 G	14547937.92	14547938.12	14547938.34	0.0088	0.0030	
Venus	35119-06-03 03:50 G	14548163.48	14548163.66	14548163.86	0.0088	0.0046	
Venus	35120-01-14 16:48 G	14548389.05	14548389.20	14548389.36	0.0088	0.0063	
Venus	35120-08-27 06:00 G	14548614.66	14548614.75	14548614.85	0.0088	0.0079	
Mercury	35136-09-05 19:55 G	14554468.28	14554468.33	14554468.42	0.0089	0.0082	
Mercury	35136-12-02 23:45 G	14554556.38	14554556.49	14554556.61	0.0089	0.0071	
Mercury	35137-03-01 02:53 G	14554644.50	14554644.62	14554644.78	0.0089	0.0061	
Mercury	35137-05-28 06:43 G	14554732.63	14554732.78	14554732.94	0.0089	0.0050	
Mercury	35137-08-24 10:05 G	14554820.76	14554820.92	14554821.10	0.0089	0.0040	
Mercury	35137-11-20 13:41 G	14554908.89	14554909.07	14554909.25	0.0089	0.0029	
Mercury	35138-02-16 17:02 G	14554997.03	14554997.21	14554997.40	0.0089	0.0019	
Mercury	35138-05-15 20:38 G	14555085.17	14555085.36	14555085.55	0.0089	0.0008	
Mercury	35138-08-12 00:00 G	14555173.31	14555173.50	14555173.69	0.0089	0.0003	
Mercury	35138-11-08 03:21 G	14555261.46	14555261.64	14555261.83	0.0089	0.0013	
Mercury	35139-02-04 06:43 G	14555349.60	14555349.78	14555349.97	0.0089	0.0024	
Mercury	35139-05-03 10:05 G	14555437.75	14555437.92	14555438.10	0.0089	0.0034	
Mercury	35139-07-30 13:26 G	14555525.91	14555526.06	14555526.23	0.0089	0.0044	
Mercury	35139-10-26 16:33 G	14555614.06	14555614.19	14555614.36	0.0089	0.0055	

Mercury	35140-01-22 19:55 G	14555702.22	14555702.33	14555702.48	0.0089	0.0065
Mercury	35140-04-19 23:31 G	14555790.39	14555790.48	14555790.59	0.0089	0.0075
Mercury	35140-07-17 02:53 G	14555878.58	14555878.62	14555878.68	0.0089	0.0085
Mars	35148-11-16 16:33 G	14558922.89	14558923.19	14558923.52	0.0089	0.0023
Mars	35150-10-13 03:21 G	14559618.38	14559618.64	14559618.92	0.0089	0.0049
Moon	35161-01-28 17:45 G	14563379.20	14563379.24	14563379.28	0.0089	0.0088
Earth	35162-01-31 06:43 G	14563746.67	14563746.78	14563746.95	0.0090	0.0075
Moon	35162-01-31 07:26 G	14563746.71	14563746.81	14563746.96	0.0090	0.0079 *
Earth	35163-02-02 19:12 G	14564114.12	14564114.30	14564114.52	0.0090	0.0057
Moon	35163-02-02 20:09 G	14564114.16	14564114.34	14564114.57	0.0090	0.0053 *
Moon	35164-02-05 05:31 G	14564481.51	14564481.73	14564481.98	0.0090	0.0043
Earth	35164-02-05 07:55 G	14564481.61	14564481.83	14564482.07	0.0090	0.0039 *
Earth	35165-02-06 20:24 G	14564849.11	14564849.35	14564849.61	0.0090	0.0021
Moon	35165-02-06 23:02 G	14564849.22	14564849.46	14564849.72	0.0090	0.0016 *
Moon	35166-02-09 05:31 G	14565216.48	14565216.73	14565217.00	0.0090	0.0008
Earth	35166-02-09 09:21 G	14565216.63	14565216.89	14565217.15	0.0090	0.0003 *
Earth	35167-02-11 21:36 G	14565584.16	14565584.40	14565584.66	0.0090	0.0015
Moon	35167-02-12 01:12 G	14565584.30	14565584.55	14565584.81	0.0090	0.0020 *
Moon	35168-02-14 06:57 G	14565951.56	14565951.79	14565952.04	0.0090	0.0029
Earth	35168-02-14 10:19 G	14565951.70	14565951.93	14565952.18	0.0090	0.0033 *
Earth	35169-02-15 23:17 G	14566319.26	14566319.47	14566319.68	0.0090	0.0051
Moon	35169-02-16 01:41 G	14566319.38	14566319.57	14566319.79	0.0090	0.0056 *
Moon	35170-02-18 10:19 G	14566686.77	14566686.93	14566687.11	0.0090	0.0065
Earth	35170-02-18 12:00 G	14566686.84	14566687.00	14566687.16	0.0090	0.0069 *
Earth	35171-02-21 00:14 G	14567054.47	14567054.51	14567054.59	0.0090	0.0087
Venus	35195-12-29 10:19 G	14576131.85	14576131.93	14576132.03	0.0089	0.0081
Venus	35196-08-10 23:02 G	14576357.33	14576357.46	14576357.63	0.0089	0.0065
Venus	35197-03-24 12:29 G	14576582.84	14576583.02	14576583.21	0.0089	0.0048
Venus	35197-11-05 01:26 G	14576808.36	14576808.56	14576808.77	0.0089	0.0031
Venus	35198-06-18 14:38 G	14577033.90	14577034.11	14577034.33	0.0089	0.0014

Venus	35199-01-30 03:50 G	14577259.44	14577259.66	14577259.88	0.0089	0.0002
Venus	35199-09-12 16:33 G	14577484.99	14577485.19	14577485.42	0.0089	0.0019
Venus	35200-04-25 05:31 G	14577710.54	14577710.73	14577710.94	0.0089	0.0036
Venus	35200-12-06 18:14 G	14577936.10	14577936.26	14577936.46	0.0089	0.0052
Venus	35201-07-20 07:26 G	14578161.69	14578161.81	14578161.96	0.0089	0.0068
Venus	35202-03-02 20:24 G	14578387.31	14578387.35	14578387.44	0.0089	0.0085
Mercury	35216-12-26 02:38 G	14583799.58	14583799.61	14583799.64	0.0089	0.0086
Mercury	35217-03-24 03:50 G	14583887.61	14583887.66	14583887.72	0.0089	0.0079
Mercury	35217-06-20 05:02 G	14583975.64	14583975.71	14583975.80	0.0089	0.0072
Mercury	35217-09-16 06:29 G	14584063.69	14584063.77	14584063.87	0.0089	0.0065
Mercury	35217-12-13 07:41 G	14584151.73	14584151.82	14584151.93	0.0089	0.0058
Mercury	35218-03-11 09:21 G	14584239.78	14584239.89	14584240.00	0.0089	0.0050
Mercury	35218-06-07 10:33 G	14584327.83	14584327.94	14584328.06	0.0088	0.0043
Mercury	35218-09-03 11:45 G	14584415.88	14584415.99	14584416.12	0.0088	0.0036
Mercury	35218-11-30 13:12 G	14584503.93	14584504.05	14584504.18	0.0088	0.0028
Mercury	35219-02-26 14:38 G	14584591.98	14584592.11	14584592.24	0.0088	0.0021
Mercury	35219-05-25 16:05 G	14584680.04	14584680.17	14584680.30	0.0088	0.0014
Mercury	35219-08-21 17:31 G	14584768.09	14584768.23	14584768.36	0.0088	0.0007
Mercury	35219-11-17 18:43 G	14584856.15	14584856.28	14584856.42	0.0088	0.0002
Mercury	35220-02-13 20:09 G	14584944.21	14584944.34	14584944.47	0.0088	0.0008
Mercury	35220-05-11 21:21 G	14585032.26	14585032.39	14585032.53	0.0088	0.0016
Mercury	35220-08-07 22:48 G	14585120.32	14585120.45	14585120.58	0.0088	0.0023
Mercury	35220-11-04 00:14 G	14585208.38	14585208.51	14585208.64	0.0088	0.0031
Mercury	35221-01-31 01:26 G	14585296.45	14585296.56	14585296.69	0.0088	0.0038
Mercury	35221-04-29 02:53 G	14585384.51	14585384.62	14585384.74	0.0088	0.0046
Mercury	35221-07-26 04:19 G	14585472.58	14585472.68	14585472.79	0.0088	0.0053
Mercury	35221-10-22 05:31 G	14585560.64	14585560.73	14585560.84	0.0088	0.0061
Mercury	35222-01-18 06:57 G	14585648.72	14585648.79	14585648.89	0.0088	0.0068
Mercury	35222-04-16 08:24 G	14585736.79	14585736.85	14585736.93	0.0088	0.0075
Mercury	35222-07-13 09:50 G	14585824.87	14585824.91	14585824.96	0.0088	0.0083

Mars	35228-09-05 03:07 G	14588070.47	14588070.63	14588070.84	0.0088	0.0069
Mars	35230-07-31 07:41 G	14588764.52	14588764.82	14588765.13	0.0088	0.0005
Mars	35232-06-24 12:43 G	14589458.83	14589459.03	14589459.28	0.0088	0.0060
Earth	35243-08-02 13:55 G	14593514.99	14593515.08	14593515.21	0.0088	0.0079
Moon	35243-08-02 15:07 G	14593515.02	14593515.13	14593515.29	0.0088	0.0076 *
Earth	35244-08-04 00:57 G	14593882.38	14593882.54	14593882.74	0.0088	0.0062
Moon	35244-08-04 00:57 G	14593882.39	14593882.54	14593882.73	0.0088	0.0065 *
Moon	35245-08-06 11:02 G	14594249.75	14594249.96	14594250.22	0.0088	0.0042
Earth	35245-08-06 12:14 G	14594249.80	14594250.01	14594250.24	0.0088	0.0045 *
Earth	35246-08-08 23:02 G	14594617.23	14594617.46	14594617.72	0.0088	0.0028
Moon	35246-08-09 01:41 G	14594617.34	14594617.57	14594617.81	0.0088	0.0031 *
Moon	35247-08-11 07:12 G	14594984.54	14594984.80	14594985.06	0.0088	0.0008
Earth	35247-08-11 10:19 G	14594984.68	14594984.93	14594985.19	0.0088	0.0011 *
Earth	35248-08-12 20:53 G	14595352.12	14595352.37	14595352.63	0.0088	0.0007
Moon	35248-08-13 00:29 G	14595352.26	14595352.52	14595352.77	0.0088	0.0002 *
Moon	35249-08-15 04:05 G	14595719.43	14595719.67	14595719.92	0.0088	0.0027
Earth	35249-08-15 07:55 G	14595719.58	14595719.83	14595720.08	0.0088	0.0023 *
Earth	35250-08-17 18:00 G	14596087.04	14596087.25	14596087.50	0.0088	0.0041
Moon	35250-08-17 21:07 G	14596087.16	14596087.38	14596087.64	0.0088	0.0037 *
Moon	35251-08-20 02:38 G	14596454.44	14596454.61	14596454.80	0.0088	0.0061
Earth	35251-08-20 05:17 G	14596454.53	14596454.72	14596454.92	0.0088	0.0057 *
Earth	35252-08-21 15:36 G	14596822.03	14596822.15	14596822.30	0.0088	0.0074
Moon	35252-08-21 16:48 G	14596822.05	14596822.20	14596822.37	0.0088	0.0070 *
Venus	35278-09-26 07:41 G	14606353.82	14606353.82	14606353.83	0.0088	0.0088
Venus	35279-05-09 20:09 G	14606579.24	14606579.34	14606579.49	0.0088	0.0073
Venus	35279-12-21 09:07 G	14606804.73	14606804.88	14606805.07	0.0088	0.0057
Venus	35280-08-02 22:19 G	14607030.25	14607030.43	14607030.64	0.0088	0.0040
Venus	35281-03-16 11:17 G	14607255.77	14607255.97	14607256.20	0.0088	0.0025
Venus	35281-10-28 00:43 G	14607481.31	14607481.53	14607481.75	0.0088	0.0008
Venus	35282-06-10 13:26 G	14607706.85	14607707.06	14607707.29	0.0088	0.0009

Venus	35283-01-22 02:24 G	14607932.40	14607932.60	14607932.82	0.0088	0.0025
Venus	35283-09-04 15:21 G	14608157.96	14608158.14	14608158.35	0.0088	0.0042
Venus	35284-04-17 04:19 G	14608383.53	14608383.68	14608383.86	0.0088	0.0058
Venus	35284-11-28 17:17 G	14608609.12	14608609.22	14608609.36	0.0088	0.0074
Mercury	35301-03-07 15:36 G	14614551.13	14614551.15	14614551.21	0.0089	0.0087
Mercury	35301-06-03 19:12 G	14614639.22	14614639.30	14614639.41	0.0089	0.0076
Mercury	35301-08-30 22:33 G	14614727.33	14614727.44	14614727.59	0.0089	0.0066
Mercury	35301-11-27 02:09 G	14614815.45	14614815.59	14614815.75	0.0089	0.0055
Mercury	35302-02-23 05:31 G	14614903.58	14614903.73	14614903.91	0.0089	0.0045
Mercury	35302-05-22 09:07 G	14614991.71	14614991.88	14614992.07	0.0089	0.0034
Mercury	35302-08-18 12:29 G	14615079.85	14615080.02	14615080.22	0.0089	0.0024
Mercury	35302-11-14 16:05 G	14615167.99	14615168.17	14615168.37	0.0089	0.0013
Mercury	35303-02-10 19:41 G	14615256.13	14615256.32	14615256.51	0.0089	0.0002
Mercury	35303-05-09 23:02 G	14615344.27	14615344.46	14615344.65	0.0089	0.0008
Mercury	35303-08-06 02:24 G	14615432.42	14615432.60	14615432.79	0.0089	0.0019
Mercury	35303-11-02 05:45 G	14615520.57	14615520.74	14615520.92	0.0089	0.0029
Mercury	35304-01-29 09:07 G	14615608.72	14615608.88	14615609.06	0.0089	0.0039
Mercury	35304-04-26 12:14 G	14615696.87	14615697.01	14615697.18	0.0089	0.0050
Mercury	35304-07-23 15:50 G	14615785.03	14615785.16	14615785.31	0.0089	0.0060
Mercury	35304-10-19 19:12 G	14615873.19	14615873.30	14615873.42	0.0089	0.0070
Mercury	35305-01-15 22:19 G	14615961.37	14615961.43	14615961.53	0.0089	0.0081
Mars	35312-07-01 22:19 G	14618685.16	14618685.43	14618685.74	0.0089	0.0042
Mars	35314-05-28 09:50 G	14619380.63	14619380.91	14619381.24	0.0089	0.0031
Earth	35326-01-31 17:17 G	14623647.16	14623647.22	14623647.34	0.0090	0.0084
Moon	35326-01-31 18:43 G	14623647.23	14623647.28	14623647.38	0.0090	0.0086 *
Moon	35327-02-03 03:07 G	14624014.47	14624014.63	14624014.84	0.0090	0.0064
Earth	35327-02-03 05:45 G	14624014.59	14624014.74	14624014.94	0.0090	0.0066 *
Earth	35328-02-05 18:14 G	14624382.06	14624382.26	14624382.49	0.0090	0.0048
Moon	35328-02-05 21:50 G	14624382.20	14624382.41	14624382.62	0.0090	0.0050 *
Moon	35329-02-07 03:21 G	14624749.41	14624749.64	14624749.90	0.0090	0.0028

Earth	35329-02-07 06:57 G	14624749.55	14624749.79	14624750.04	0.0090	0.0030	*
Earth	35330-02-09 19:12 G	14625117.05	14625117.30	14625117.56	0.0090	0.0012	
Moon	35330-02-09 23:02 G	14625117.21	14625117.46	14625117.72	0.0090	0.0013	*
Moon	35331-02-12 05:02 G	14625484.47	14625484.71	14625484.97	0.0090	0.0009	
Earth	35331-02-12 07:55 G	14625484.58	14625484.83	14625485.09	0.0090	0.0007	*
Earth	35332-02-14 20:09 G	14625852.11	14625852.34	14625852.60	0.0090	0.0025	
Moon	35332-02-14 22:33 G	14625852.20	14625852.44	14625852.71	0.0090	0.0025	*
Moon	35333-02-16 07:55 G	14626219.62	14626219.83	14626220.05	0.0090	0.0044	
Earth	35333-02-16 08:53 G	14626219.66	14626219.87	14626220.11	0.0090	0.0043	*
Moon	35334-02-18 20:53 G	14626587.20	14626587.37	14626587.59	0.0090	0.0060	
Earth	35334-02-18 21:36 G	14626587.22	14626587.40	14626587.60	0.0090	0.0061	*
Earth	35335-02-21 10:05 G	14626954.82	14626954.92	14626955.06	0.0090	0.0079	
Moon	35335-02-21 10:48 G	14626954.87	14626954.95	14626955.09	0.0090	0.0080	*
Venus	35360-04-01 21:50 G	14636126.36	14636126.41	14636126.48	0.0089	0.0086	
Venus	35360-11-13 10:33 G	14636351.83	14636351.94	14636352.10	0.0089	0.0070	
Venus	35361-06-27 00:00 G	14636577.33	14636577.50	14636577.68	0.0089	0.0053	
Venus	35362-02-07 13:12 G	14636802.86	14636803.05	14636803.26	0.0089	0.0036	
Venus	35362-09-21 02:24 G	14637028.39	14637028.60	14637028.82	0.0089	0.0020	
Venus	35363-05-04 15:21 G	14637253.92	14637254.14	14637254.36	0.0089	0.0003	
Venus	35363-12-16 04:19 G	14637479.47	14637479.68	14637479.90	0.0089	0.0014	
Venus	35364-07-28 17:02 G	14637705.02	14637705.21	14637705.43	0.0089	0.0031	
Venus	35365-03-11 06:14 G	14637930.59	14637930.76	14637930.96	0.0089	0.0047	
Venus	35365-10-22 18:57 G	14638156.16	14638156.29	14638156.47	0.0089	0.0063	
Venus	35366-06-05 07:55 G	14638381.75	14638381.83	14638381.95	0.0089	0.0080	
Mercury	35381-09-23 02:09 G	14643970.56	14643970.59	14643970.65	0.0089	0.0083	
Mercury	35381-12-20 03:36 G	14644058.59	14644058.65	14644058.73	0.0089	0.0076	
Mercury	35382-03-18 04:48 G	14644146.63	14644146.70	14644146.80	0.0089	0.0069	
Mercury	35382-06-14 06:29 G	14644234.67	14644234.77	14644234.87	0.0089	0.0061	
Mercury	35382-09-10 07:41 G	14644322.72	14644322.82	14644322.93	0.0088	0.0054	
Mercury	35382-12-07 08:53 G	14644410.77	14644410.87	14644410.99	0.0088	0.0047	



Mercury	35383-03-05 10:19 G	14644498.82	14644498.93	14644499.06	0.0088	0.0039
Mercury	35383-06-01 11:45 G	14644586.87	14644586.99	14644587.12	0.0088	0.0032
Mercury	35383-08-28 13:12 G	14644674.92	14644675.05	14644675.18	0.0088	0.0025
Mercury	35383-11-24 14:24 G	14644762.97	14644763.10	14644763.24	0.0088	0.0018
Mercury	35384-02-20 15:50 G	14644851.03	14644851.16	14644851.30	0.0088	0.0010
Mercury	35384-05-18 17:17 G	14644939.09	14644939.22	14644939.35	0.0088	0.0003
Mercury	35384-08-14 18:43 G	14645027.14	14645027.28	14645027.41	0.0088	0.0005
Mercury	35384-11-10 19:55 G	14645115.20	14645115.33	14645115.47	0.0088	0.0012
Mercury	35385-02-06 21:21 G	14645203.26	14645203.39	14645203.52	0.0088	0.0019
Mercury	35385-05-05 22:48 G	14645291.32	14645291.45	14645291.58	0.0088	0.0027
Mercury	35385-08-02 00:00 G	14645379.38	14645379.50	14645379.63	0.0088	0.0034
Mercury	35385-10-29 01:26 G	14645467.45	14645467.56	14645467.68	0.0088	0.0042
Mercury	35386-01-25 02:38 G	14645555.51	14645555.61	14645555.73	0.0088	0.0050
Mercury	35386-04-23 04:05 G	14645643.58	14645643.67	14645643.78	0.0088	0.0057
Mercury	35386-07-20 05:45 G	14645731.65	14645731.74	14645731.83	0.0088	0.0064
Mercury	35386-10-16 06:57 G	14645819.72	14645819.79	14645819.87	0.0088	0.0071
Mercury	35387-01-12 08:24 G	14645907.80	14645907.85	14645907.91	0.0088	0.0079
Mercury	35387-04-10 09:36 G	14645995.89	14645995.90	14645995.94	0.0088	0.0086
Mars	35392-04-21 12:14 G	14647833.96	14647834.01	14647834.09	0.0088	0.0086
Mars	35394-03-16 12:43 G	14648527.75	14648528.03	14648528.34	0.0088	0.0022
Mars	35396-02-08 16:33 G	14649221.93	14649222.19	14649222.46	0.0088	0.0043
Moon	35407-08-04 00:29 G	14653415.49	14653415.52	14653415.62	0.0088	0.0085
Moon	35408-08-05 09:07 G	14653782.77	14653782.88	14653783.05	0.0088	0.0075
Earth	35408-08-05 11:17 G	14653782.84	14653782.97	14653783.14	0.0088	0.0071 *
Earth	35409-08-07 22:33 G	14654150.25	14654150.44	14654150.66	0.0088	0.0054
Moon	35409-08-08 00:43 G	14654150.35	14654150.53	14654150.76	0.0088	0.0051 *
Moon	35410-08-10 06:00 G	14654517.54	14654517.75	14654518.00	0.0088	0.0041
Earth	35410-08-10 09:36 G	14654517.68	14654517.90	14654518.15	0.0088	0.0037 *
Earth	35411-08-12 20:38 G	14654885.12	14654885.36	14654885.62	0.0088	0.0020
Moon	35411-08-13 00:14 G	14654885.26	14654885.51	14654885.77	0.0088	0.0016 *

Moon	35412-08-14 04:33 G	14655252.43	14655252.69	14655252.94	0.0088	0.0005
Earth	35412-08-14 07:55 G	14655252.57	14655252.83	14655253.09	0.0088	0.0002 *
Earth	35413-08-16 18:29 G	14655620.02	14655620.27	14655620.53	0.0088	0.0015
Moon	35413-08-16 21:36 G	14655620.14	14655620.40	14655620.66	0.0088	0.0018 *
Moon	35414-08-19 03:50 G	14655987.43	14655987.66	14655987.90	0.0088	0.0029
Earth	35414-08-19 05:31 G	14655987.49	14655987.73	14655987.97	0.0088	0.0032 *
Earth	35415-08-21 16:19 G	14656354.97	14656355.18	14656355.39	0.0088	0.0049
Moon	35415-08-21 16:48 G	14656355.00	14656355.20	14656355.43	0.0088	0.0052 *
Earth	35416-08-23 02:09 G	14656722.45	14656722.59	14656722.79	0.0088	0.0067
Moon	35416-08-23 02:53 G	14656722.48	14656722.62	14656722.82	0.0088	0.0064 *
Moon	35417-08-25 10:48 G	14657089.94	14657089.95	14657090.02	0.0088	0.0087
Earth	35417-08-25 13:41 G	14657089.99	14657090.07	14657090.15	0.0088	0.0083 *
Venus	35443-08-13 07:41 G	14666573.73	14666573.82	14666573.94	0.0088	0.0077
Venus	35444-03-25 20:38 G	14666799.22	14666799.36	14666799.53	0.0088	0.0061
Venus	35444-11-06 09:36 G	14667024.72	14667024.90	14667025.10	0.0088	0.0045
Venus	35445-06-19 22:33 G	14667250.24	14667250.44	14667250.66	0.0088	0.0029
Venus	35446-01-31 11:31 G	14667475.77	14667475.98	14667476.21	0.0088	0.0013
Venus	35446-09-14 00:43 G	14667701.31	14667701.53	14667701.75	0.0088	0.0003
Venus	35447-04-27 13:41 G	14667926.86	14667927.07	14667927.29	0.0088	0.0019
Venus	35447-12-09 02:38 G	14668152.41	14668152.61	14668152.81	0.0088	0.0036
Venus	35448-07-21 15:36 G	14668377.98	14668378.15	14668378.34	0.0088	0.0052
Venus	35449-03-04 04:48 G	14668603.56	14668603.70	14668603.84	0.0088	0.0068
Venus	35449-10-15 17:17 G	14668829.18	14668829.22	14668829.31	0.0088	0.0084
Mercury	35465-12-03 14:53 G	14674722.05	14674722.12	14674722.20	0.0089	0.0081
Mercury	35466-03-01 18:14 G	14674810.16	14674810.26	14674810.39	0.0089	0.0071
Mercury	35466-05-28 21:50 G	14674898.28	14674898.41	14674898.56	0.0089	0.0060
Mercury	35466-08-25 01:12 G	14674986.41	14674986.55	14674986.72	0.0089	0.0050
Mercury	35466-11-21 04:48 G	14675074.54	14675074.70	14675074.88	0.0089	0.0039
Mercury	35467-02-17 08:24 G	14675162.67	14675162.85	14675163.03	0.0089	0.0028
Mercury	35467-05-16 11:45 G	14675250.81	14675250.99	14675251.18	0.0089	0.0018

Mercury	35467-08-12 15:21 G	14675338.95	14675339.14	14675339.33	0.0089	0.0007
Mercury	35467-11-08 18:43 G	14675427.09	14675427.28	14675427.47	0.0089	0.0003
Mercury	35468-02-04 22:05 G	14675515.24	14675515.42	14675515.61	0.0089	0.0014
Mercury	35468-05-03 01:26 G	14675603.38	14675603.56	14675603.75	0.0089	0.0024
Mercury	35468-07-30 04:33 G	14675691.53	14675691.69	14675691.88	0.0089	0.0035
Mercury	35468-10-26 08:09 G	14675779.69	14675779.84	14675780.01	0.0089	0.0045
Mercury	35469-01-22 11:31 G	14675867.84	14675867.98	14675868.14	0.0089	0.0055
Mercury	35469-04-20 14:38 G	14675956.00	14675956.11	14675956.26	0.0089	0.0066
Mercury	35469-07-17 18:00 G	14676044.17	14676044.25	14676044.37	0.0089	0.0076
Mercury	35469-10-13 21:36 G	14676132.37	14676132.40	14676132.45	0.0089	0.0086
Mars	35476-02-15 00:57 G	14678447.34	14678447.54	14678447.81	0.0089	0.0063
Mars	35478-01-10 15:50 G	14679142.84	14679143.16	14679143.49	0.0089	0.0011
Mars	35479-12-07 01:55 G	14679838.49	14679838.58	14679838.73	0.0089	0.0083
Jupiter	35486-12-23 18:29 G	14682411.76	14682412.27	14682412.81	0.0089	0.0020
Earth	35491-02-03 15:21 G	14683915.04	14683915.14	14683915.31	0.0089	0.0076
Moon	35491-02-03 18:57 G	14683915.20	14683915.29	14683915.43	0.0089	0.0080 *
Moon	35492-02-06 00:43 G	14684282.34	14684282.53	14684282.75	0.0090	0.0054
Earth	35492-02-06 04:05 G	14684282.50	14684282.67	14684282.89	0.0090	0.0058 *
Earth	35493-02-07 16:48 G	14684649.98	14684650.20	14684650.44	0.0090	0.0039
Moon	35493-02-07 19:55 G	14684650.11	14684650.33	14684650.57	0.0090	0.0043 *
Moon	35494-02-10 02:38 G	14685017.37	14685017.61	14685017.86	0.0090	0.0017
Earth	35494-02-10 05:17 G	14685017.48	14685017.72	14685017.98	0.0090	0.0021 *
Earth	35495-02-12 17:45 G	14685384.98	14685385.24	14685385.50	0.0090	0.0002
Moon	35495-02-12 18:57 G	14685385.03	14685385.29	14685385.56	0.0090	0.0007 *
Moon	35496-02-15 05:45 G	14685752.50	14685752.74	14685752.99	0.0090	0.0020
Earth	35496-02-15 06:14 G	14685752.51	14685752.76	14685753.02	0.0090	0.0016 *
Moon	35497-02-16 18:00 G	14686120.01	14686120.25	14686120.51	0.0090	0.0030
Earth	35497-02-16 18:29 G	14686120.05	14686120.27	14686120.53	0.0090	0.0035 *
Earth	35498-02-19 06:43 G	14686487.60	14686487.78	14686488.01	0.0090	0.0053
Moon	35498-02-19 09:07 G	14686487.71	14686487.88	14686488.09	0.0090	0.0057 *

Moon	35499-02-21 16:48 G	14686855.05	14686855.20	14686855.40	0.0090	0.0067
Earth	35499-02-21 19:41 G	14686855.18	14686855.32	14686855.50	0.0090	0.0071 *
Earth	35500-02-24 08:09 G	14687222.83	14687222.84	14687222.91	0.0090	0.0089
Venus	35525-02-16 22:05 G	14696346.31	14696346.42	14696346.55	0.0089	0.0075
Venus	35525-09-30 11:02 G	14696571.81	14696571.96	14696572.14	0.0089	0.0058
Venus	35526-05-14 00:29 G	14696797.32	14696797.52	14696797.71	0.0089	0.0042
Venus	35526-12-25 13:12 G	14697022.85	14697023.05	14697023.27	0.0089	0.0026
Venus	35527-08-08 02:38 G	14697248.39	14697248.61	14697248.83	0.0089	0.0009
Venus	35528-03-20 15:36 G	14697473.94	14697474.15	14697474.37	0.0089	0.0008
Venus	35528-11-01 04:33 G	14697699.49	14697699.69	14697699.91	0.0089	0.0025
Venus	35529-06-14 17:17 G	14697925.05	14697925.22	14697925.44	0.0089	0.0042
Venus	35530-01-26 06:29 G	14698150.62	14698150.77	14698150.95	0.0089	0.0057
Venus	35530-09-08 19:41 G	14698376.21	14698376.32	14698376.45	0.0089	0.0073
Mercury	35546-03-26 00:43 G	14704053.52	14704053.53	14704053.57	0.0089	0.0087
Mercury	35546-06-22 01:55 G	14704141.54	14704141.58	14704141.66	0.0089	0.0080
Mercury	35546-09-18 03:36 G	14704229.58	14704229.65	14704229.73	0.0089	0.0072
Mercury	35546-12-15 04:48 G	14704317.62	14704317.70	14704317.80	0.0089	0.0065
Mercury	35547-03-13 06:14 G	14704405.66	14704405.76	14704405.86	0.0089	0.0058
Mercury	35547-06-09 07:26 G	14704493.71	14704493.81	14704493.93	0.0089	0.0051
Mercury	35547-09-05 08:38 G	14704581.76	14704581.86	14704581.99	0.0089	0.0044
Mercury	35547-12-02 10:19 G	14704669.81	14704669.93	14704670.05	0.0088	0.0036
Mercury	35548-02-28 11:31 G	14704757.86	14704757.98	14704758.11	0.0088	0.0029
Mercury	35548-05-26 12:57 G	14704845.91	14704846.04	14704846.17	0.0088	0.0021
Mercury	35548-08-22 14:24 G	14704933.97	14704934.10	14704934.23	0.0088	0.0014
Mercury	35548-11-18 15:36 G	14705022.02	14705022.15	14705022.29	0.0088	0.0007
Mercury	35549-02-14 17:02 G	14705110.08	14705110.21	14705110.35	0.0088	0.0001
Mercury	35549-05-13 18:29 G	14705198.13	14705198.27	14705198.40	0.0088	0.0008
Mercury	35549-08-09 19:41 G	14705286.19	14705286.32	14705286.46	0.0088	0.0016
Mercury	35549-11-05 21:07 G	14705374.25	14705374.38	14705374.51	0.0088	0.0023
Mercury	35550-02-01 22:19 G	14705462.31	14705462.43	14705462.57	0.0088	0.0031

Mercury	35550-04-30 23:45 G	14705550.37	14705550.49	14705550.62	0.0088	0.0038
Mercury	35550-07-28 00:57 G	14705638.44	14705638.54	14705638.67	0.0088	0.0046
Mercury	35550-10-24 02:38 G	14705726.50	14705726.61	14705726.72	0.0088	0.0052
Mercury	35551-01-20 04:05 G	14705814.57	14705814.67	14705814.77	0.0088	0.0060
Mercury	35551-04-18 05:17 G	14705902.64	14705902.72	14705902.81	0.0088	0.0067
Mercury	35551-07-15 06:43 G	14705990.72	14705990.78	14705990.86	0.0088	0.0075
Mercury	35551-10-11 07:55 G	14706078.80	14706078.83	14706078.89	0.0088	0.0083
Mars	35557-10-31 19:12 G	14708291.04	14708291.30	14708291.58	0.0088	0.0040
Mars	35559-09-25 20:09 G	14708985.07	14708985.34	14708985.65	0.0088	0.0025
Earth	35572-08-05 21:50 G	14713683.33	14713683.41	14713683.53	0.0088	0.0080
Moon	35572-08-06 00:43 G	14713683.45	14713683.53	14713683.68	0.0088	0.0079 *
Moon	35573-08-08 05:31 G	14714050.57	14714050.73	14714050.92	0.0088	0.0065
Earth	35573-08-08 08:53 G	14714050.71	14714050.87	14714051.07	0.0088	0.0063 *
Earth	35574-08-10 19:55 G	14714418.13	14714418.33	14714418.57	0.0088	0.0046
Moon	35574-08-10 23:31 G	14714418.28	14714418.48	14714418.73	0.0088	0.0043 *
Moon	35575-08-13 04:19 G	14714785.45	14714785.68	14714785.92	0.0088	0.0030
Earth	35575-08-13 07:26 G	14714785.56	14714785.81	14714786.05	0.0088	0.0028 *
Earth	35576-08-14 18:14 G	14715153.00	14715153.26	14715153.52	0.0088	0.0011
Moon	35576-08-14 20:38 G	14715153.10	14715153.36	14715153.63	0.0088	0.0008 *
Moon	35577-08-17 03:50 G	14715520.41	14715520.66	14715520.91	0.0088	0.0004
Earth	35577-08-17 05:17 G	14715520.46	14715520.72	14715520.98	0.0088	0.0007 *
Moon	35578-08-19 15:36 G	14715887.90	14715888.15	14715888.42	0.0088	0.0026
Earth	35578-08-19 16:05 G	14715887.93	14715888.17	14715888.42	0.0088	0.0024 *
Earth	35579-08-22 02:53 G	14716255.39	14716255.62	14716255.85	0.0088	0.0041
Moon	35579-08-22 03:50 G	14716255.45	14716255.66	14716255.89	0.0088	0.0039 *
Moon	35580-08-23 11:17 G	14716622.78	14716622.97	14716623.16	0.0088	0.0061
Earth	35580-08-23 13:12 G	14716622.88	14716623.05	14716623.26	0.0088	0.0059 *
Earth	35581-08-25 23:45 G	14716990.39	14716990.49	14716990.64	0.0088	0.0076
Moon	35581-08-26 03:36 G	14716990.52	14716990.65	14716990.79	0.0088	0.0073 *
Venus	35607-11-15 18:43 G	14726568.22	14726568.28	14726568.38	0.0088	0.0082

Venus	35608-06-28 07:41 G	14726793.69	14726793.82	14726793.98	0.0088	0.0067
Venus	35609-02-08 20:53 G	14727019.20	14727019.37	14727019.56	0.0088	0.0050
Venus	35609-09-22 09:50 G	14727244.71	14727244.91	14727245.12	0.0088	0.0034
Venus	35610-05-05 22:48 G	14727470.24	14727470.45	14727470.67	0.0088	0.0018
Venus	35610-12-17 11:45 G	14727695.77	14727695.99	14727696.21	0.0088	0.0002
Venus	35611-07-31 00:43 G	14727921.32	14727921.53	14727921.75	0.0088	0.0014
Venus	35612-03-12 13:26 G	14728146.87	14728147.06	14728147.28	0.0088	0.0031
Venus	35612-10-24 02:24 G	14728372.43	14728372.60	14728372.80	0.0088	0.0046
Venus	35613-06-06 15:07 G	14728598.00	14728598.13	14728598.31	0.0088	0.0063
Venus	35614-01-18 04:05 G	14728823.59	14728823.67	14728823.80	0.0088	0.0079
Mercury	35630-06-04 10:05 G	14734804.89	14734804.92	14734804.96	0.0089	0.0087
Mercury	35630-08-31 13:12 G	14734892.98	14734893.05	14734893.17	0.0089	0.0077
Mercury	35630-11-27 17:02 G	14734981.09	14734981.21	14734981.35	0.0089	0.0066
Mercury	35631-02-23 20:24 G	14735069.22	14735069.35	14735069.51	0.0089	0.0056
Mercury	35631-05-23 00:00 G	14735157.35	14735157.50	14735157.68	0.0089	0.0045
Mercury	35631-08-19 03:36 G	14735245.48	14735245.65	14735245.83	0.0089	0.0034
Mercury	35631-11-15 06:57 G	14735333.62	14735333.79	14735333.98	0.0089	0.0024
Mercury	35632-02-11 10:33 G	14735421.76	14735421.94	14735422.13	0.0089	0.0013
Mercury	35632-05-09 14:09 G	14735509.90	14735510.09	14735510.28	0.0089	0.0003
Mercury	35632-08-05 17:31 G	14735598.04	14735598.23	14735598.42	0.0089	0.0008
Mercury	35632-11-01 20:53 G	14735686.19	14735686.37	14735686.56	0.0089	0.0019
Mercury	35633-01-29 00:14 G	14735774.34	14735774.51	14735774.70	0.0089	0.0029
Mercury	35633-04-27 03:50 G	14735862.49	14735862.66	14735862.83	0.0089	0.0039
Mercury	35633-07-24 06:57 G	14735950.64	14735950.79	14735950.96	0.0089	0.0050
Mercury	35633-10-20 10:19 G	14736038.80	14736038.93	14736039.08	0.0089	0.0060
Mercury	35634-01-16 13:55 G	14736126.97	14736127.08	14736127.19	0.0089	0.0070
Mercury	35634-04-14 16:48 G	14736215.14	14736215.20	14736215.30	0.0089	0.0081
Mars	35639-09-30 01:12 G	14738209.48	14738209.55	14738209.70	0.0089	0.0084
Mars	35641-08-25 18:43 G	14738904.96	14738905.28	14738905.62	0.0089	0.0010
Mars	35643-07-22 08:09 G	14739600.64	14739600.84	14739601.10	0.0089	0.0064

Moon	35655-02-03 21:50 G	14743815.38	14743815.41	14743815.47	0.0089	0.0088
Earth	35655-02-04 01:26 G	14743815.49	14743815.56	14743815.65	0.0089	0.0085
Earth	35656-02-06 13:41 G	14744182.92	14744183.07	14744183.26	0.0089	0.0067
Moon	35656-02-06 16:19 G	14744183.02	14744183.18	14744183.39	0.0089	0.0064 *
Moon	35657-02-08 00:14 G	14744550.32	14744550.51	14744550.73	0.0090	0.0052
Earth	35657-02-08 01:55 G	14744550.39	14744550.58	14744550.82	0.0090	0.0049 *
Earth	35658-02-10 14:09 G	14744917.87	14744918.09	14744918.35	0.0090	0.0031
Moon	35658-02-10 15:36 G	14744917.91	14744918.15	14744918.42	0.0090	0.0028 *
Earth	35659-02-13 03:07 G	14745285.37	14745285.63	14745285.89	0.0090	0.0012
Moon	35659-02-13 03:36 G	14745285.41	14745285.65	14745285.90	0.0090	0.0015 *
Moon	35660-02-15 13:41 G	14745652.82	14745653.07	14745653.35	0.0090	0.0010
Earth	35660-02-15 15:36 G	14745652.89	14745653.15	14745653.41	0.0090	0.0007 *
Earth	35661-02-17 03:36 G	14746020.41	14746020.65	14746020.91	0.0090	0.0025
Moon	35661-02-17 06:00 G	14746020.51	14746020.75	14746021.00	0.0090	0.0023 *
Moon	35662-02-19 12:29 G	14746387.82	14746388.02	14746388.26	0.0090	0.0047
Earth	35662-02-19 16:05 G	14746387.96	14746388.17	14746388.41	0.0090	0.0044 *
Earth	35663-02-22 04:33 G	14746755.52	14746755.69	14746755.89	0.0090	0.0062
Moon	35663-02-22 07:55 G	14746755.66	14746755.83	14746756.04	0.0090	0.0060 *
Moon	35664-02-24 13:41 G	14747122.98	14747123.07	14747123.19	0.0090	0.0082
Earth	35664-02-24 17:31 G	14747123.12	14747123.23	14747123.35	0.0090	0.0080 *
Venus	35689-05-21 08:38 G	14756340.78	14756340.86	14756340.97	0.0089	0.0080
Venus	35690-01-01 22:05 G	14756566.27	14756566.42	14756566.58	0.0089	0.0064
Venus	35690-08-15 11:02 G	14756791.79	14756791.96	14756792.16	0.0089	0.0047
Venus	35691-03-29 00:00 G	14757017.31	14757017.50	14757017.72	0.0089	0.0031
Venus	35691-11-09 13:26 G	14757242.84	14757243.06	14757243.28	0.0089	0.0014
Venus	35692-06-22 02:38 G	14757468.39	14757468.61	14757468.83	0.0089	0.0003
Venus	35693-02-02 15:36 G	14757693.94	14757694.15	14757694.37	0.0089	0.0019
Venus	35693-09-16 04:33 G	14757919.50	14757919.69	14757919.90	0.0089	0.0035
Venus	35694-04-29 17:31 G	14758145.06	14758145.23	14758145.42	0.0089	0.0051
Venus	35694-12-11 06:29 G	14758370.64	14758370.77	14758370.92	0.0089	0.0068

Venus	35695-07-24 18:57 G	14758596.25	14758596.29	14758596.39	0.0089	0.0085
Mercury	35710-12-22 00:29 G	14764224.49	14764224.52	14764224.58	0.0089	0.0084
Mercury	35711-03-20 02:09 G	14764312.52	14764312.59	14764312.66	0.0089	0.0076
Mercury	35711-06-16 03:21 G	14764400.56	14764400.64	14764400.73	0.0089	0.0069
Mercury	35711-09-12 04:33 G	14764488.60	14764488.69	14764488.79	0.0089	0.0062
Mercury	35711-12-09 06:00 G	14764576.65	14764576.75	14764576.86	0.0089	0.0054
Mercury	35712-03-06 07:12 G	14764664.70	14764664.80	14764664.92	0.0088	0.0047
Mercury	35712-06-02 08:38 G	14764752.75	14764752.86	14764752.98	0.0088	0.0040
Mercury	35712-08-29 10:05 G	14764840.80	14764840.92	14764841.04	0.0088	0.0033
Mercury	35712-11-25 11:17 G	14764928.85	14764928.97	14764929.10	0.0088	0.0026
Mercury	35713-02-21 12:43 G	14765016.90	14765017.03	14765017.16	0.0088	0.0018
Mercury	35713-05-20 14:09 G	14765104.95	14765105.09	14765105.22	0.0088	0.0011
Mercury	35713-08-16 15:21 G	14765193.01	14765193.14	14765193.28	0.0088	0.0004
Mercury	35713-11-12 16:48 G	14765281.07	14765281.20	14765281.34	0.0088	0.0004
Mercury	35714-02-08 18:14 G	14765369.12	14765369.26	14765369.39	0.0088	0.0011
Mercury	35714-05-07 19:26 G	14765457.18	14765457.31	14765457.45	0.0088	0.0019
Mercury	35714-08-03 20:53 G	14765545.24	14765545.37	14765545.50	0.0088	0.0026
Mercury	35714-10-30 22:05 G	14765633.30	14765633.42	14765633.55	0.0088	0.0034
Mercury	35715-01-26 23:31 G	14765721.37	14765721.48	14765721.61	0.0088	0.0041
Mercury	35715-04-25 00:57 G	14765809.43	14765809.54	14765809.66	0.0088	0.0048
Mercury	35715-07-22 02:24 G	14765897.50	14765897.60	14765897.70	0.0088	0.0056
Mercury	35715-10-18 03:36 G	14765985.56	14765985.65	14765985.75	0.0088	0.0063
Mercury	35716-01-14 05:02 G	14766073.64	14766073.71	14766073.80	0.0088	0.0071
Mercury	35716-04-11 06:14 G	14766161.71	14766161.76	14766161.84	0.0088	0.0078
Mercury	35716-07-08 07:41 G	14766249.80	14766249.82	14766249.86	0.0088	0.0086
Mars	35721-06-17 01:55 G	14768054.35	14768054.58	14768054.81	0.0088	0.0057
Mars	35723-05-12 02:38 G	14768748.32	14768748.61	14768748.92	0.0088	0.0007
Mars	35725-04-05 04:19 G	14769442.52	14769442.68	14769442.87	0.0088	0.0072
Moon	35736-08-06 03:36 G	14773583.61	14773583.65	14773583.73	0.0088	0.0085
Earth	35737-08-08 18:43 G	14773951.14	14773951.28	14773951.43	0.0088	0.0072



Moon	35737-08-08 22:05 G	14773951.29	14773951.42	14773951.55	0.0088	0.0076 *
Moon	35738-08-11 02:38 G	14774318.42	14774318.61	14774318.83	0.0088	0.0051
Earth	35738-08-11 05:31 G	14774318.54	14774318.73	14774318.95	0.0088	0.0055 *
Earth	35739-08-13 16:05 G	14774685.96	14774686.17	14774686.43	0.0088	0.0038
Moon	35739-08-13 18:00 G	14774686.03	14774686.25	14774686.50	0.0088	0.0042 *
Moon	35740-08-15 02:53 G	14775053.39	14775053.62	14775053.88	0.0088	0.0017
Earth	35740-08-15 03:36 G	14775053.40	14775053.65	14775053.91	0.0088	0.0020 *
Moon	35741-08-17 14:24 G	14775420.83	14775421.10	14775421.37	0.0088	0.0006
Earth	35741-08-17 14:38 G	14775420.86	14775421.11	14775421.37	0.0088	0.0003 *
Earth	35742-08-20 01:41 G	14775788.31	14775788.57	14775788.82	0.0088	0.0015
Moon	35742-08-20 03:21 G	14775788.41	14775788.64	14775788.90	0.0088	0.0020 *
Moon	35743-08-22 09:21 G	14776155.66	14776155.89	14776156.16	0.0088	0.0029
Earth	35743-08-22 12:14 G	14776155.79	14776156.01	14776156.27	0.0088	0.0033 *
Earth	35744-08-23 23:17 G	14776523.27	14776523.47	14776523.69	0.0088	0.0050
Moon	35744-08-24 02:24 G	14776523.42	14776523.60	14776523.82	0.0088	0.0054 *
Moon	35745-08-26 06:29 G	14776890.60	14776890.77	14776890.96	0.0088	0.0063
Earth	35745-08-26 09:50 G	14776890.77	14776890.91	14776891.10	0.0088	0.0068 *
Earth	35746-08-28 20:38 G	14777258.32	14777258.36	14777258.45	0.0088	0.0085
Venus	35772-02-18 05:31 G	14786562.72	14786562.73	14786562.77	0.0088	0.0087
Venus	35772-09-30 18:43 G	14786788.15	14786788.28	14786788.41	0.0088	0.0072
Venus	35773-05-14 06:57 G	14787013.65	14787013.79	14787013.99	0.0088	0.0057
Venus	35773-12-25 20:09 G	14787239.16	14787239.34	14787239.55	0.0088	0.0040
Venus	35774-08-08 09:21 G	14787464.68	14787464.89	14787465.11	0.0088	0.0024
Venus	35775-03-21 22:19 G	14787690.21	14787690.43	14787690.65	0.0088	0.0008
Venus	35775-11-02 11:17 G	14787915.75	14787915.97	14787916.19	0.0088	0.0008
Venus	35776-06-15 00:00 G	14788141.30	14788141.50	14788141.72	0.0088	0.0024
Venus	35777-01-26 12:43 G	14788366.85	14788367.03	14788367.24	0.0088	0.0040
Venus	35777-09-09 01:41 G	14788592.42	14788592.57	14788592.76	0.0088	0.0057
Venus	35778-04-22 14:38 G	14788818.01	14788818.11	14788818.26	0.0088	0.0072
Venus	35778-12-04 04:05 G	14789043.65	14789043.67	14789043.69	0.0088	0.0088

Mercury	35795-03-02 08:24 G	14794975.80	14794975.85	14794975.93	0.0089	0.0083
Mercury	35795-05-29 12:14 G	14795063.90	14795064.01	14795064.12	0.0089	0.0072
Mercury	35795-08-25 15:21 G	14795152.02	14795152.14	14795152.30	0.0089	0.0062
Mercury	35795-11-21 19:12 G	14795240.15	14795240.30	14795240.46	0.0089	0.0051
Mercury	35796-02-17 22:48 G	14795328.28	14795328.45	14795328.62	0.0089	0.0040
Mercury	35796-05-16 02:09 G	14795416.42	14795416.59	14795416.78	0.0089	0.0030
Mercury	35796-08-12 05:45 G	14795504.55	14795504.74	14795504.93	0.0089	0.0019
Mercury	35796-11-08 09:07 G	14795592.70	14795592.88	14795593.08	0.0089	0.0009
Mercury	35797-02-04 12:43 G	14795680.84	14795681.03	14795681.22	0.0089	0.0002
Mercury	35797-05-03 16:05 G	14795768.98	14795769.17	14795769.36	0.0089	0.0013
Mercury	35797-07-30 19:26 G	14795857.13	14795857.31	14795857.50	0.0089	0.0023
Mercury	35797-10-26 23:02 G	14795945.28	14795945.46	14795945.63	0.0089	0.0033
Mercury	35798-01-23 02:09 G	14796033.44	14796033.59	14796033.77	0.0089	0.0044
Mercury	35798-04-21 05:45 G	14796121.59	14796121.74	14796121.89	0.0089	0.0054
Mercury	35798-07-18 08:53 G	14796209.76	14796209.87	14796210.01	0.0089	0.0065
Mercury	35798-10-14 12:14 G	14796297.93	14796298.01	14796298.12	0.0089	0.0075
Mercury	35799-01-10 15:50 G	14796386.12	14796386.16	14796386.22	0.0089	0.0085
Mars	35805-04-10 17:31 G	14798666.93	14798667.23	14798667.55	0.0089	0.0031
Mars	35807-03-07 08:53 G	14799362.61	14799362.87	14799363.18	0.0089	0.0043
Moon	35820-02-07 21:07 G	14804083.29	14804083.38	14804083.51	0.0089	0.0080
Earth	35820-02-07 22:33 G	14804083.33	14804083.44	14804083.59	0.0089	0.0077 *
Moon	35821-02-09 11:02 G	14804450.76	14804450.96	14804451.18	0.0089	0.0056
Earth	35821-02-09 10:48 G	14804450.78	14804450.95	14804451.17	0.0089	0.0059 *
Earth	35822-02-11 23:31 G	14804818.26	14804818.48	14804818.72	0.0089	0.0040
Moon	35822-02-12 00:29 G	14804818.31	14804818.52	14804818.74	0.0089	0.0043 *
Moon	35823-02-14 09:50 G	14805185.66	14805185.91	14805186.18	0.0090	0.0018
Earth	35823-02-14 12:00 G	14805185.76	14805186.00	14805186.26	0.0090	0.0022 *
Earth	35824-02-17 00:29 G	14805553.27	14805553.52	14805553.78	0.0090	0.0003
Moon	35824-02-17 03:36 G	14805553.40	14805553.65	14805553.90	0.0090	0.0006 *
Moon	35825-02-18 09:21 G	14805920.65	14805920.89	14805921.16	0.0090	0.0020

Earth	35825-02-18 12:57 G	14805920.79	14805921.04	14805921.30	0.0090	0.0016	*
Earth	35826-02-21 01:12 G	14806288.32	14806288.55	14806288.80	0.0090	0.0035	
Moon	35826-02-21 05:02 G	14806288.47	14806288.71	14806288.96	0.0090	0.0031	*
Moon	35827-02-23 10:33 G	14806655.76	14806655.94	14806656.15	0.0090	0.0057	
Earth	35827-02-23 13:55 G	14806655.88	14806656.08	14806656.29	0.0090	0.0053	*
Earth	35828-02-26 01:55 G	14807023.45	14807023.58	14807023.75	0.0090	0.0072	
Moon	35828-02-26 04:33 G	14807023.54	14807023.69	14807023.89	0.0090	0.0068	*
Venus	35853-08-24 19:41 G	14816335.27	14816335.32	14816335.38	0.0089	0.0086	
Venus	35854-04-07 08:24 G	14816560.73	14816560.85	14816561.00	0.0089	0.0070	
Venus	35854-11-18 21:21 G	14816786.24	14816786.39	14816786.59	0.0089	0.0054	
Venus	35855-07-02 10:33 G	14817011.76	14817011.94	14817012.16	0.0089	0.0037	
Venus	35856-02-13 00:00 G	14817237.29	14817237.50	14817237.72	0.0089	0.0021	
Venus	35856-09-25 13:12 G	14817462.83	14817463.05	14817463.27	0.0089	0.0004	
Venus	35857-05-09 02:09 G	14817688.38	14817688.59	14817688.81	0.0089	0.0013	
Venus	35857-12-20 15:07 G	14817913.93	14817914.13	14817914.35	0.0089	0.0029	
Venus	35858-08-03 04:05 G	14818139.50	14818139.67	14818139.87	0.0089	0.0045	
Venus	35859-03-16 17:17 G	14818365.08	14818365.22	14818365.39	0.0089	0.0061	
Venus	35859-10-28 06:29 G	14818590.67	14818590.77	14818590.88	0.0089	0.0077	
Mercury	35875-06-22 22:48 G	14824307.45	14824307.45	14824307.48	0.0089	0.0088	
Mercury	35875-09-19 00:14 G	14824395.47	14824395.51	14824395.57	0.0089	0.0081	
Mercury	35875-12-16 01:26 G	14824483.50	14824483.56	14824483.65	0.0089	0.0074	
Mercury	35876-03-13 03:07 G	14824571.54	14824571.63	14824571.72	0.0089	0.0066	
Mercury	35876-06-09 04:19 G	14824659.59	14824659.68	14824659.78	0.0089	0.0059	
Mercury	35876-09-05 05:31 G	14824747.63	14824747.73	14824747.85	0.0089	0.0052	
Mercury	35876-12-02 06:57 G	14824835.68	14824835.79	14824835.91	0.0088	0.0044	
Mercury	35877-02-28 08:24 G	14824923.73	14824923.85	14824923.97	0.0088	0.0037	
Mercury	35877-05-27 09:36 G	14825011.78	14825011.90	14825012.03	0.0088	0.0030	
Mercury	35877-08-23 11:02 G	14825099.83	14825099.96	14825100.09	0.0088	0.0022	
Mercury	35877-11-19 12:14 G	14825187.88	14825188.01	14825188.15	0.0088	0.0016	
Mercury	35878-02-15 13:41 G	14825275.94	14825276.07	14825276.21	0.0088	0.0008	

Mercury	35878-05-14 15:07 G	14825364.00	14825364.13	14825364.26	0.0088	0.0001
Mercury	35878-08-10 16:19 G	14825452.05	14825452.18	14825452.32	0.0088	0.0008
Mercury	35878-11-06 17:45 G	14825540.11	14825540.24	14825540.37	0.0088	0.0014
Mercury	35879-02-02 19:12 G	14825628.17	14825628.30	14825628.43	0.0088	0.0021
Mercury	35879-05-01 20:24 G	14825716.23	14825716.35	14825716.48	0.0088	0.0029
Mercury	35879-07-28 21:50 G	14825804.29	14825804.41	14825804.53	0.0088	0.0036
Mercury	35879-10-24 23:02 G	14825892.35	14825892.46	14825892.59	0.0088	0.0044
Mercury	35880-01-21 00:14 G	14825980.42	14825980.51	14825980.64	0.0088	0.0052
Mercury	35880-04-18 01:55 G	14826068.48	14826068.58	14826068.68	0.0088	0.0058
Mercury	35880-07-15 03:21 G	14826156.55	14826156.64	14826156.73	0.0088	0.0066
Mercury	35880-10-11 04:33 G	14826244.62	14826244.69	14826244.77	0.0088	0.0073
Mercury	35881-01-07 06:00 G	14826332.70	14826332.75	14826332.81	0.0088	0.0081
Mercury	35881-04-05 07:26 G	14826420.81	14826420.81	14826420.82	0.0088	0.0088
Mars	35885-01-31 08:09 G	14827817.72	14827817.84	14827818.02	0.0088	0.0076
Mars	35886-12-26 06:43 G	14828511.49	14828511.78	14828512.09	0.0088	0.0012
Mars	35888-11-19 07:41 G	14829205.60	14829205.82	14829206.07	0.0088	0.0054
Moon	35901-08-10 01:26 G	14833851.50	14833851.56	14833851.68	0.0088	0.0082
Earth	35901-08-10 03:50 G	14833851.58	14833851.66	14833851.76	0.0088	0.0082 *
Earth	35902-08-12 14:24 G	14834218.95	14834219.10	14834219.30	0.0088	0.0065
Moon	35902-08-12 15:50 G	14834219.01	14834219.16	14834219.36	0.0088	0.0066 *
Earth	35903-08-15 01:41 G	14834586.36	14834586.57	14834586.80	0.0088	0.0047
Moon	35903-08-15 01:41 G	14834586.37	14834586.57	14834586.79	0.0088	0.0046 *
Moon	35904-08-16 10:48 G	14834953.72	14834953.95	14834954.22	0.0088	0.0030
Earth	35904-08-16 12:29 G	14834953.79	14834954.02	14834954.28	0.0088	0.0030 *
Earth	35905-08-18 23:31 G	14835321.23	14835321.48	14835321.74	0.0088	0.0012
Moon	35905-08-19 01:41 G	14835321.32	14835321.57	14835321.82	0.0088	0.0010 *
Moon	35906-08-21 07:12 G	14835688.54	14835688.80	14835689.06	0.0088	0.0005
Earth	35906-08-21 10:33 G	14835688.69	14835688.94	14835689.20	0.0088	0.0006 *
Earth	35907-08-23 21:07 G	14836056.14	14836056.38	14836056.64	0.0088	0.0024
Moon	35907-08-24 00:43 G	14836056.29	14836056.53	14836056.79	0.0088	0.0025 *

Moon	35908-08-25 04:33 G	14836423.48	14836423.69	14836423.94	0.0088	0.0040
Earth	35908-08-25 07:55 G	14836423.63	14836423.83	14836424.08	0.0088	0.0042 *
Earth	35909-08-27 18:57 G	14836791.11	14836791.29	14836791.50	0.0088	0.0059
Moon	35909-08-27 21:50 G	14836791.25	14836791.41	14836791.63	0.0088	0.0061 *
Moon	35910-08-30 04:05 G	14837158.55	14837158.67	14837158.81	0.0088	0.0075
Earth	35910-08-30 05:17 G	14837158.63	14837158.72	14837158.88	0.0088	0.0077 *
Venus	35937-01-04 04:33 G	14846782.60	14846782.69	14846782.81	0.0088	0.0077
Venus	35937-08-17 17:45 G	14847008.09	14847008.24	14847008.41	0.0088	0.0062
Venus	35938-03-31 06:29 G	14847233.60	14847233.77	14847233.97	0.0088	0.0046
Venus	35938-11-11 19:26 G	14847459.11	14847459.31	14847459.53	0.0088	0.0030
Venus	35939-06-25 08:24 G	14847684.64	14847684.85	14847685.08	0.0088	0.0014
Venus	35940-02-05 21:36 G	14847910.18	14847910.40	14847910.62	0.0088	0.0002
Venus	35940-09-18 10:19 G	14848135.72	14848135.93	14848136.15	0.0088	0.0018
Venus	35941-05-01 23:17 G	14848361.27	14848361.47	14848361.68	0.0088	0.0034
Venus	35941-12-13 12:00 G	14848586.83	14848587.00	14848587.19	0.0088	0.0050
Venus	35942-07-27 00:57 G	14848812.41	14848812.54	14848812.70	0.0088	0.0066
Venus	35943-03-09 13:55 G	14849038.01	14849038.08	14849038.18	0.0088	0.0081
Mercury	35959-11-29 06:29 G	14855146.71	14855146.77	14855146.87	0.0089	0.0080
Mercury	35960-02-25 10:19 G	14855234.82	14855234.93	14855235.06	0.0089	0.0069
Mercury	35960-05-23 13:55 G	14855322.94	14855323.08	14855323.23	0.0089	0.0058
Mercury	35960-08-19 17:17 G	14855411.07	14855411.22	14855411.39	0.0089	0.0048
Mercury	35960-11-15 20:53 G	14855499.20	14855499.37	14855499.55	0.0089	0.0037
Mercury	35961-02-12 00:29 G	14855587.34	14855587.52	14855587.71	0.0089	0.0026
Mercury	35961-05-11 03:50 G	14855675.48	14855675.66	14855675.86	0.0089	0.0016
Mercury	35961-08-07 07:26 G	14855763.62	14855763.81	14855764.01	0.0089	0.0005
Mercury	35961-11-03 11:02 G	14855851.77	14855851.96	14855852.15	0.0089	0.0006
Mercury	35962-01-30 14:24 G	14855939.92	14855940.10	14855940.29	0.0089	0.0016
Mercury	35962-04-28 17:45 G	14856028.07	14856028.24	14856028.43	0.0089	0.0027
Mercury	35962-07-25 21:21 G	14856116.22	14856116.39	14856116.56	0.0089	0.0037
Mercury	35962-10-22 00:29 G	14856204.37	14856204.52	14856204.69	0.0089	0.0048

Mercury	35963-01-18 04:05 G	14856292.53	14856292.67	14856292.82	0.0089	0.0058
Mercury	35963-04-16 07:12 G	14856380.70	14856380.80	14856380.94	0.0089	0.0069
Mercury	35963-07-13 10:48 G	14856468.88	14856468.95	14856469.04	0.0089	0.0079
Mars	35968-11-23 13:41 G	14858428.84	14858429.07	14858429.37	0.0089	0.0054
Mars	35970-10-20 08:09 G	14859124.54	14859124.84	14859125.18	0.0089	0.0021
Earth	35984-02-08 05:45 G	14863983.72	14863983.74	14863983.83	0.0089	0.0088
Earth	35985-02-09 18:43 G	14864351.13	14864351.28	14864351.45	0.0089	0.0069
Moon	35985-02-09 20:38 G	14864351.20	14864351.36	14864351.54	0.0089	0.0065 *
Moon	35986-02-12 04:48 G	14864718.50	14864718.70	14864718.92	0.0089	0.0054
Earth	35986-02-12 06:57 G	14864718.60	14864718.79	14864719.03	0.0089	0.0051 *
Earth	35987-02-14 19:41 G	14865086.09	14865086.32	14865086.57	0.0089	0.0032
Moon	35987-02-14 23:02 G	14865086.23	14865086.46	14865086.71	0.0089	0.0028 *
Moon	35988-02-17 04:33 G	14865453.45	14865453.69	14865453.95	0.0090	0.0018
Earth	35988-02-17 08:24 G	14865453.60	14865453.85	14865454.11	0.0090	0.0013 *
Earth	35989-02-18 20:38 G	14865821.11	14865821.36	14865821.62	0.0090	0.0006
Moon	35989-02-19 00:00 G	14865821.25	14865821.50	14865821.77	0.0090	0.0010 *
Moon	35990-02-21 06:00 G	14866188.52	14866188.75	14866189.01	0.0090	0.0022
Earth	35990-02-21 09:21 G	14866188.64	14866188.89	14866189.14	0.0090	0.0025 *
Earth	35991-02-23 21:21 G	14866556.19	14866556.39	14866556.63	0.0090	0.0044
Moon	35991-02-23 23:31 G	14866556.26	14866556.48	14866556.71	0.0090	0.0047 *
Moon	35992-02-26 08:53 G	14866923.70	14866923.87	14866924.07	0.0090	0.0060
Earth	35992-02-26 09:36 G	14866923.74	14866923.90	14866924.11	0.0090	0.0063 *
Earth	35993-02-27 22:19 G	14867291.34	14867291.43	14867291.56	0.0090	0.0081
Moon	35993-02-27 22:05 G	14867291.35	14867291.42	14867291.53	0.0090	0.0084 *

# 37TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 37th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	36018-07-10 18:43	G	14876555.18	14876555.28	14876555.41	0.0089	0.0075	
Venus	36019-02-21 07:41	G	14876780.68	14876780.82	14876781.00	0.0089	0.0060	
Venus	36019-10-04 20:53	G	14877006.19	14877006.37	14877006.57	0.0089	0.0043	
Venus	36020-05-17 09:50	G	14877231.72	14877231.91	14877232.13	0.0089	0.0027	
Venus	36020-12-28 23:17	G	14877457.25	14877457.47	14877457.68	0.0089	0.0010	
Venus	36021-08-11 12:14	G	14877682.79	14877683.01	14877683.23	0.0089	0.0006	
Venus	36022-03-25 01:12	G	14877908.35	14877908.55	14877908.77	0.0089	0.0022	
Venus	36022-11-05 14:24	G	14878133.91	14878134.10	14878134.30	0.0089	0.0038	
Venus	36023-06-19 03:07	G	14878359.47	14878359.63	14878359.82	0.0089	0.0055	
Venus	36024-01-30 16:05	G	14878585.06	14878585.17	14878585.33	0.0089	0.0071	
Venus	36024-09-12 05:17	G	14878810.69	14878810.72	14878810.78	0.0089	0.0087	
Mercury	36040-03-19 22:48	G	14884478.42	14884478.45	14884478.48	0.0089	0.0085	
Mercury	36040-06-16 00:00	G	14884566.44	14884566.50	14884566.57	0.0089	0.0078	
Mercury	36040-09-12 01:12	G	14884654.48	14884654.55	14884654.64	0.0088	0.0071	
Mercury	36040-12-09 02:24	G	14884742.52	14884742.60	14884742.71	0.0088	0.0064	
Mercury	36041-03-07 03:50	G	14884830.57	14884830.66	14884830.77	0.0088	0.0056	
Mercury	36041-06-03 05:17	G	14884918.61	14884918.72	14884918.83	0.0088	0.0049	
Mercury	36041-08-30 06:29	G	14885006.66	14885006.77	14885006.90	0.0088	0.0042	
Mercury	36041-11-26 07:55	G	14885094.71	14885094.83	14885094.96	0.0088	0.0034	
Mercury	36042-02-22 09:07	G	14885182.76	14885182.88	14885183.02	0.0088	0.0028	
Mercury	36042-05-21 10:48	G	14885270.82	14885270.95	14885271.08	0.0088	0.0020	
Mercury	36042-08-17 12:00	G	14885358.87	14885359.00	14885359.13	0.0088	0.0013	
Mercury	36042-11-13 13:26	G	14885446.92	14885447.06	14885447.19	0.0088	0.0005	
Mercury	36043-02-09 14:38	G	14885534.98	14885535.11	14885535.25	0.0088	0.0003	

Mercury	36043-05-08 16:05 G	14885623.04	14885623.17	14885623.30	0.0088	0.0009
Mercury	36043-08-04 17:17 G	14885711.09	14885711.22	14885711.36	0.0088	0.0017
Mercury	36043-10-31 18:43 G	14885799.15	14885799.28	14885799.41	0.0088	0.0024
Mercury	36044-01-27 19:55 G	14885887.21	14885887.33	14885887.46	0.0088	0.0032
Mercury	36044-04-24 21:07 G	14885975.27	14885975.38	14885975.52	0.0088	0.0040
Mercury	36044-07-21 22:33 G	14886063.34	14886063.44	14886063.57	0.0088	0.0047
Mercury	36044-10-18 00:00 G	14886151.40	14886151.50	14886151.61	0.0088	0.0054
Mercury	36045-01-14 01:12 G	14886239.47	14886239.55	14886239.66	0.0088	0.0062
Mercury	36045-04-12 02:38 G	14886327.54	14886327.61	14886327.71	0.0088	0.0069
Mercury	36045-07-09 04:19 G	14886415.61	14886415.68	14886415.75	0.0088	0.0076
Mercury	36045-10-05 05:17 G	14886503.69	14886503.72	14886503.78	0.0088	0.0084
Mars	36050-08-11 12:29 G	14888274.76	14888275.02	14888275.32	0.0088	0.0031
Mars	36052-07-05 11:17 G	14888968.71	14888968.97	14888969.26	0.0088	0.0035
Jupiter	36062-01-02 23:45 G	14892437.11	14892437.49	14892437.98	0.0088	0.0054
Moon	36065-08-09 12:14 G	14893752.01	14893752.01	14893752.04	0.0088	0.0088
Earth	36066-08-11 22:48 G	14894119.34	14894119.45	14894119.61	0.0088	0.0075
Moon	36066-08-11 23:31 G	14894119.39	14894119.48	14894119.61	0.0088	0.0079 *
Moon	36067-08-14 08:24 G	14894486.64	14894486.85	14894487.07	0.0088	0.0052
Earth	36067-08-14 10:05 G	14894486.74	14894486.92	14894487.13	0.0088	0.0057 *
Earth	36068-08-15 21:07 G	14894854.15	14894854.38	14894854.62	0.0088	0.0039
Moon	36068-08-16 00:00 G	14894854.29	14894854.50	14894854.73	0.0088	0.0044 *
Moon	36069-08-18 04:48 G	14895221.45	14895221.70	14895221.96	0.0088	0.0017
Earth	36069-08-18 07:55 G	14895221.59	14895221.83	14895222.09	0.0088	0.0022 *
Earth	36070-08-20 18:57 G	14895589.03	14895589.29	14895589.55	0.0088	0.0003
Moon	36070-08-20 22:48 G	14895589.19	14895589.45	14895589.70	0.0088	0.0008 *
Moon	36071-08-23 02:38 G	14895956.37	14895956.61	14895956.87	0.0088	0.0019
Earth	36071-08-23 05:45 G	14895956.49	14895956.74	14895957.00	0.0088	0.0014 *
Earth	36072-08-24 16:48 G	14896323.96	14896324.20	14896324.44	0.0088	0.0032
Moon	36072-08-24 19:12 G	14896324.06	14896324.30	14896324.56	0.0088	0.0028 *
Moon	36073-08-27 01:26 G	14896691.39	14896691.56	14896691.78	0.0088	0.0055



Earth	36073-08-27 03:21 G	14896691.44	14896691.64	14896691.86	0.0088	0.0050 *
Moon	36074-08-29 14:09 G	14897058.92	14897059.09	14897059.29	0.0088	0.0063
Earth	36074-08-29 13:55 G	14897058.94	14897059.08	14897059.27	0.0088	0.0068 *
Earth	36075-09-01 01:12 G	14897426.50	14897426.55	14897426.62	0.0088	0.0085
Venus	36101-04-08 14:09 G	14906777.04	14906777.09	14906777.17	0.0088	0.0084
Venus	36101-11-20 02:53 G	14907002.50	14907002.62	14907002.78	0.0088	0.0068
Venus	36102-07-03 15:50 G	14907228.00	14907228.16	14907228.36	0.0088	0.0053
Saturn	36102-10-04 19:55 G	14907321.07	14907321.33	14907321.72	0.0088	0.0079
Venus	36103-02-14 05:02 G	14907453.52	14907453.71	14907453.92	0.0088	0.0036
Venus	36103-09-27 18:14 G	14907679.05	14907679.26	14907679.48	0.0088	0.0020
Venus	36104-05-10 07:12 G	14907904.58	14907904.80	14907905.02	0.0088	0.0005
Venus	36104-12-21 20:09 G	14908130.12	14908130.34	14908130.56	0.0088	0.0011
Venus	36105-08-04 08:53 G	14908355.67	14908355.87	14908356.09	0.0088	0.0028
Venus	36106-03-17 21:50 G	14908581.23	14908581.41	14908581.61	0.0088	0.0043
Venus	36106-10-29 11:02 G	14908806.80	14908806.96	14908807.12	0.0088	0.0059
Venus	36107-06-11 23:31 G	14909032.38	14909032.48	14909032.61	0.0088	0.0075
Mercury	36124-05-30 00:57 G	14915229.53	14915229.54	14915229.58	0.0089	0.0088
Mercury	36124-08-26 04:33 G	14915317.61	14915317.69	14915317.80	0.0089	0.0077
Mercury	36124-11-22 08:24 G	14915405.72	14915405.85	14915405.98	0.0089	0.0066
Mercury	36125-02-18 11:31 G	14915493.85	14915493.98	14915494.15	0.0089	0.0056
Mercury	36125-05-17 15:07 G	14915581.98	14915582.13	14915582.31	0.0089	0.0045
Mercury	36125-08-13 18:57 G	14915670.11	14915670.29	14915670.47	0.0089	0.0034
Mercury	36125-11-09 22:19 G	14915758.25	14915758.43	14915758.62	0.0089	0.0024
Mercury	36126-02-06 01:55 G	14915846.39	14915846.58	14915846.77	0.0089	0.0013
Mercury	36126-05-05 05:31 G	14915934.54	14915934.73	14915934.92	0.0089	0.0003
Mercury	36126-08-01 08:53 G	14916022.68	14916022.87	14916023.06	0.0089	0.0008
Mercury	36126-10-28 12:14 G	14916110.83	14916111.01	14916111.20	0.0089	0.0019
Mercury	36127-01-24 15:36 G	14916198.98	14916199.15	14916199.34	0.0089	0.0030
Mercury	36127-04-22 19:12 G	14916287.14	14916287.30	14916287.47	0.0089	0.0040
Mercury	36127-07-19 22:19 G	14916375.29	14916375.43	14916375.60	0.0089	0.0051

Mercury	36127-10-16 01:55 G	14916463.45	14916463.58	14916463.73	0.0089	0.0061
Mercury	36128-01-12 05:31 G	14916551.62	14916551.73	14916551.85	0.0089	0.0071
Mercury	36128-04-09 08:38 G	14916639.80	14916639.86	14916639.95	0.0089	0.0082
Mars	36132-07-08 05:31 G	14918190.60	14918190.73	14918190.93	0.0089	0.0077
Mars	36134-06-04 02:38 G	14918886.28	14918886.61	14918886.95	0.0089	0.0003
Mars	36136-04-29 19:55 G	14919582.16	14919582.33	14919582.54	0.0089	0.0073
Moon	36149-02-09 22:19 G	14924251.34	14924251.43	14924251.57	0.0089	0.0081
Earth	36149-02-10 01:41 G	14924251.48	14924251.57	14924251.71	0.0089	0.0080 *
Earth	36150-02-12 14:24 G	14924618.92	14924619.10	14924619.30	0.0089	0.0061
Moon	36150-02-12 17:31 G	14924619.06	14924619.23	14924619.45	0.0089	0.0060 *
Moon	36151-02-14 23:02 G	14924986.26	14924986.46	14924986.71	0.0089	0.0045
Earth	36151-02-15 03:07 G	14924986.41	14924986.63	14924986.86	0.0089	0.0042 *
Earth	36152-02-17 15:07 G	14925353.90	14925354.13	14925354.40	0.0090	0.0024
Moon	36152-02-17 18:29 G	14925354.03	14925354.27	14925354.53	0.0090	0.0021 *
Moon	36153-02-19 01:55 G	14925721.34	14925721.58	14925721.84	0.0090	0.0006
Earth	36153-02-19 04:05 G	14925721.42	14925721.67	14925721.93	0.0090	0.0005 *
Earth	36154-02-21 16:33 G	14926088.94	14926089.19	14926089.45	0.0090	0.0015
Moon	36154-02-21 18:00 G	14926089.00	14926089.25	14926089.52	0.0090	0.0018 *
Earth	36155-02-24 04:48 G	14926456.47	14926456.70	14926456.95	0.0090	0.0034
Moon	36155-02-24 05:02 G	14926456.49	14926456.71	14926456.95	0.0090	0.0032 *
Moon	36156-02-26 15:50 G	14926823.97	14926824.16	14926824.39	0.0090	0.0055
Earth	36156-02-26 17:02 G	14926824.02	14926824.21	14926824.44	0.0090	0.0053 *
Earth	36157-02-28 05:17 G	14927191.60	14927191.72	14927191.90	0.0090	0.0072
Moon	36157-02-28 07:26 G	14927191.67	14927191.81	14927191.99	0.0090	0.0069 *
Venus	36182-10-13 04:48 G	14936549.63	14936549.70	14936549.80	0.0089	0.0082
Venus	36183-05-26 17:45 G	14936775.11	14936775.24	14936775.40	0.0089	0.0066
Venus	36184-01-07 06:57 G	14937000.62	14937000.79	14937000.98	0.0089	0.0049
Venus	36184-08-19 19:55 G	14937226.14	14937226.33	14937226.55	0.0089	0.0033
Venus	36185-04-02 09:07 G	14937451.67	14937451.88	14937452.10	0.0089	0.0017
Venus	36185-11-13 22:19 G	14937677.21	14937677.43	14937677.65	0.0089	0.0001

Venus	36186-06-27 11:17 G	14937902.75	14937902.97	14937903.19	0.0089	0.0016
Venus	36187-02-08 00:00 G	14938128.31	14938128.50	14938128.72	0.0089	0.0033
Venus	36187-09-21 13:12 G	14938353.88	14938354.05	14938354.25	0.0089	0.0048
Venus	36188-05-04 02:09 G	14938579.45	14938579.59	14938579.75	0.0089	0.0064
Venus	36188-12-15 15:07 G	14938805.05	14938805.13	14938805.24	0.0089	0.0080
Mercury	36204-12-16 22:05 G	14944649.38	14944649.42	14944649.47	0.0088	0.0083
Mercury	36205-03-14 23:31 G	14944737.41	14944737.48	14944737.55	0.0088	0.0076
Mercury	36205-06-11 00:43 G	14944825.45	14944825.53	14944825.62	0.0088	0.0069
Mercury	36205-09-07 01:55 G	14944913.50	14944913.58	14944913.69	0.0088	0.0062
Mercury	36205-12-04 03:21 G	14945001.54	14945001.64	14945001.75	0.0088	0.0054
Mercury	36206-03-02 04:48 G	14945089.59	14945089.70	14945089.81	0.0088	0.0047
Mercury	36206-05-29 06:00 G	14945177.64	14945177.75	14945177.88	0.0088	0.0040
Mercury	36206-08-25 07:26 G	14945265.69	14945265.81	14945265.94	0.0088	0.0032
Mercury	36206-11-21 08:38 G	14945353.74	14945353.86	14945354.00	0.0088	0.0025
Mercury	36207-02-17 10:05 G	14945441.79	14945441.92	14945442.05	0.0088	0.0018
Mercury	36207-05-16 11:31 G	14945529.85	14945529.98	14945530.11	0.0088	0.0010
Mercury	36207-08-12 12:43 G	14945617.90	14945618.03	14945618.17	0.0088	0.0004
Mercury	36207-11-08 14:09 G	14945705.96	14945706.09	14945706.22	0.0088	0.0004
Mercury	36208-02-04 15:36 G	14945794.01	14945794.15	14945794.28	0.0088	0.0012
Mercury	36208-05-02 16:48 G	14945882.07	14945882.20	14945882.33	0.0088	0.0019
Mercury	36208-07-29 18:00 G	14945970.13	14945970.25	14945970.39	0.0088	0.0027
Mercury	36208-10-25 19:26 G	14946058.19	14946058.31	14946058.44	0.0088	0.0034
Mercury	36209-01-21 20:38 G	14946146.25	14946146.36	14946146.49	0.0088	0.0042
Mercury	36209-04-19 22:05 G	14946234.32	14946234.42	14946234.54	0.0088	0.0049
Mercury	36209-07-16 23:31 G	14946322.38	14946322.48	14946322.59	0.0088	0.0056
Mercury	36209-10-13 00:43 G	14946410.45	14946410.53	14946410.63	0.0088	0.0063
Mercury	36210-01-09 02:09 G	14946498.52	14946498.59	14946498.68	0.0088	0.0071
Mercury	36210-04-07 03:21 G	14946586.59	14946586.64	14946586.72	0.0088	0.0078
Mercury	36210-07-04 04:48 G	14946674.68	14946674.70	14946674.74	0.0088	0.0086
Mars	36214-03-28 17:31 G	14948038.01	14948038.23	14948038.50	0.0088	0.0050

Mars	36216-02-20 16:05 G	14948731.88	14948732.17	14948732.47	0.0088	0.0015
Mars	36218-01-14 14:09 G	14949426.00	14949426.09	14949426.25	0.0088	0.0081
Jupiter	36228-03-03 16:19 G	14953126.90	14953127.18	14953127.57	0.0088	0.0070
Moon	36230-08-13 04:05 G	14954019.63	14954019.67	14954019.73	0.0088	0.0086
Earth	36230-08-13 06:29 G	14954019.73	14954019.77	14954019.85	0.0088	0.0085 *
Earth	36231-08-15 17:45 G	14954387.08	14954387.24	14954387.41	0.0088	0.0067
Moon	36231-08-15 20:53 G	14954387.22	14954387.37	14954387.54	0.0088	0.0067 *
Moon	36232-08-17 00:43 G	14954754.34	14954754.53	14954754.76	0.0088	0.0051
Earth	36232-08-17 04:19 G	14954754.49	14954754.68	14954754.92	0.0088	0.0050 *
Earth	36233-08-19 15:21 G	14955121.91	14955122.14	14955122.39	0.0088	0.0032
Moon	36233-08-19 18:57 G	14955122.05	14955122.29	14955122.54	0.0088	0.0031 *
Moon	36234-08-21 23:17 G	14955489.23	14955489.47	14955489.73	0.0088	0.0014
Earth	36234-08-22 02:24 G	14955489.35	14955489.60	14955489.86	0.0088	0.0014 *
Earth	36235-08-24 13:26 G	14955856.80	14955857.06	14955857.32	0.0088	0.0004
Moon	36235-08-24 15:21 G	14955856.87	14955857.14	14955857.41	0.0088	0.0005 *
Moon	36236-08-25 23:31 G	14956224.24	14956224.48	14956224.72	0.0088	0.0022
Earth	36236-08-26 00:00 G	14956224.26	14956224.50	14956224.76	0.0088	0.0023 *
Moon	36237-08-28 10:33 G	14956591.72	14956591.94	14956592.19	0.0088	0.0040
Earth	36237-08-28 10:33 G	14956591.73	14956591.94	14956592.19	0.0088	0.0041 *
Earth	36238-08-30 21:50 G	14956959.22	14956959.41	14956959.61	0.0088	0.0058
Moon	36238-08-30 23:31 G	14956959.30	14956959.48	14956959.68	0.0088	0.0058 *
Moon	36239-09-02 06:00 G	14957326.63	14957326.75	14957326.88	0.0088	0.0076
Earth	36239-09-02 08:24 G	14957326.74	14957326.85	14957327.00	0.0088	0.0076 *
Venus	36266-02-22 12:00 G	14966996.90	14966997.00	14966997.13	0.0088	0.0074
Venus	36266-10-06 01:12 G	14967222.39	14967222.55	14967222.72	0.0088	0.0059
Venus	36267-05-19 13:55 G	14967447.90	14967448.08	14967448.28	0.0088	0.0043
Venus	36267-12-31 02:53 G	14967673.42	14967673.62	14967673.84	0.0088	0.0027
Venus	36268-08-12 16:05 G	14967898.96	14967899.17	14967899.40	0.0088	0.0012
Venus	36269-03-26 05:17 G	14968124.49	14968124.72	14968124.94	0.0088	0.0005
Venus	36269-11-06 18:00 G	14968350.04	14968350.25	14968350.47	0.0088	0.0020

Venus	36270-06-20 06:43 G	14968575.59	14968575.78	14968575.99	0.0088	0.0036
Venus	36271-01-31 19:41 G	14968801.15	14968801.32	14968801.51	0.0088	0.0052
Venus	36271-09-14 08:38 G	14969026.73	14969026.86	14969027.02	0.0088	0.0068
Venus	36272-04-26 21:21 G	14969252.34	14969252.39	14969252.49	0.0088	0.0083
Mercury	36289-02-24 22:33 G	14975400.41	14975400.44	14975400.51	0.0089	0.0086
Mercury	36289-05-24 02:09 G	14975488.50	14975488.59	14975488.71	0.0089	0.0075
Mercury	36289-08-20 06:00 G	14975576.62	14975576.75	14975576.88	0.0089	0.0064
Mercury	36289-11-16 09:07 G	14975664.75	14975664.88	14975665.05	0.0089	0.0054
Mercury	36290-02-12 12:57 G	14975752.88	14975753.04	14975753.22	0.0089	0.0043
Mercury	36290-05-11 16:33 G	14975841.02	14975841.19	14975841.37	0.0089	0.0032
Mercury	36290-08-07 20:09 G	14975929.15	14975929.34	14975929.53	0.0089	0.0021
Mercury	36290-11-03 23:31 G	14976017.30	14976017.48	14976017.68	0.0089	0.0011
Mercury	36291-01-31 03:07 G	14976105.44	14976105.63	14976105.82	0.0089	0.0001
Mercury	36291-04-29 06:29 G	14976193.59	14976193.77	14976193.97	0.0089	0.0011
Mercury	36291-07-26 10:05 G	14976281.74	14976281.92	14976282.11	0.0089	0.0021
Mercury	36291-10-22 13:26 G	14976369.89	14976370.06	14976370.25	0.0089	0.0032
Mercury	36292-01-18 17:02 G	14976458.04	14976458.21	14976458.38	0.0089	0.0042
Mercury	36292-04-15 20:09 G	14976546.20	14976546.34	14976546.51	0.0089	0.0053
Mercury	36292-07-13 00:00 G	14976634.37	14976634.50	14976634.63	0.0089	0.0063
Mercury	36292-10-09 03:07 G	14976722.54	14976722.63	14976722.75	0.0089	0.0074
Mercury	36293-01-05 06:43 G	14976810.73	14976810.78	14976810.84	0.0089	0.0084
Mars	36298-01-16 17:17 G	14978647.91	14978648.22	14978648.55	0.0089	0.0025
Mars	36299-12-13 12:29 G	14979343.76	14979344.02	14979344.31	0.0089	0.0049
Moon	36314-02-13 17:17 G	14984519.08	14984519.22	14984519.41	0.0089	0.0068
Earth	36314-02-13 20:53 G	14984519.22	14984519.37	14984519.52	0.0089	0.0072 *
Earth	36315-02-16 08:24 G	14984886.67	14984886.85	14984887.08	0.0089	0.0054
Moon	36315-02-16 11:17 G	14984886.80	14984886.97	14984887.20	0.0089	0.0058 *
Moon	36316-02-18 19:41 G	14985254.10	14985254.32	14985254.57	0.0090	0.0030
Earth	36316-02-18 21:07 G	14985254.16	14985254.38	14985254.64	0.0090	0.0035 *
Earth	36317-02-20 09:50 G	14985621.67	14985621.91	14985622.18	0.0090	0.0016

Moon	36317-02-20 10:05 G	14985621.67	14985621.92	14985622.19	0.0090	0.0020	*
Earth	36318-02-22 22:33 G	14985989.19	14985989.44	14985989.70	0.0090	0.0004	
Moon	36318-02-22 23:02 G	14985989.22	14985989.46	14985989.71	0.0090	0.0008	*
Moon	36319-02-25 08:53 G	14986356.62	14986356.87	14986357.14	0.0090	0.0019	
Earth	36319-02-25 10:48 G	14986356.72	14986356.95	14986357.22	0.0090	0.0024	*
Earth	36320-02-27 23:17 G	14986724.26	14986724.47	14986724.72	0.0090	0.0043	
Moon	36320-02-28 02:09 G	14986724.40	14986724.59	14986724.82	0.0090	0.0047	*
Moon	36321-03-01 08:53 G	14987091.68	14987091.87	14987092.08	0.0090	0.0057	
Earth	36321-03-01 11:45 G	14987091.83	14987091.99	14987092.20	0.0090	0.0062	*
Earth	36322-03-04 00:43 G	14987459.42	14987459.53	14987459.65	0.0090	0.0080	
Moon	36322-03-04 04:05 G	14987459.61	14987459.67	14987459.77	0.0090	0.0085	*
Venus	36347-01-16 13:41 G	14996544.07	14996544.07	14996544.14	0.0089	0.0089	
Venus	36347-08-30 02:53 G	14996769.52	14996769.62	14996769.77	0.0089	0.0073	
Venus	36348-04-11 16:05 G	14996995.02	14996995.17	14996995.36	0.0089	0.0056	
Venus	36348-11-23 05:31 G	14997220.53	14997220.73	14997220.93	0.0089	0.0040	
Venus	36349-07-06 18:29 G	14997446.06	14997446.27	14997446.49	0.0089	0.0024	
Venus	36350-02-17 07:41 G	14997671.60	14997671.82	14997672.04	0.0089	0.0008	
Venus	36350-09-30 20:38 G	14997897.15	14997897.36	14997897.58	0.0089	0.0009	
Venus	36351-05-14 09:21 G	14998122.69	14998122.89	14998123.12	0.0089	0.0025	
Venus	36351-12-25 22:19 G	14998348.25	14998348.43	14998348.64	0.0089	0.0041	
Venus	36352-08-07 11:17 G	14998573.82	14998573.97	14998574.16	0.0089	0.0057	
Venus	36353-03-21 00:29 G	14998799.41	14998799.52	14998799.66	0.0089	0.0073	
Venus	36353-11-01 13:41 G	14999025.07	14999025.07	14999025.09	0.0089	0.0089	
Mercury	36369-06-17 20:09 G	15004732.34	15004732.34	15004732.35	0.0088	0.0088	
Mercury	36369-09-13 21:21 G	15004820.35	15004820.39	15004820.45	0.0088	0.0081	
Mercury	36369-12-10 23:02 G	15004908.39	15004908.46	15004908.53	0.0088	0.0074	
Mercury	36370-03-09 00:14 G	15004996.43	15004996.51	15004996.60	0.0088	0.0067	
Mercury	36370-06-05 01:26 G	15005084.47	15005084.56	15005084.66	0.0088	0.0060	
Mercury	36370-09-01 02:38 G	15005172.51	15005172.61	15005172.73	0.0088	0.0053	
Mercury	36370-11-28 04:05 G	15005260.56	15005260.67	15005260.79	0.0088	0.0045	

Mercury	36371-02-24 05:31 G	15005348.61	15005348.73	15005348.85	0.0088	0.0038
Mercury	36371-05-23 06:43 G	15005436.66	15005436.78	15005436.91	0.0088	0.0031
Mercury	36371-08-19 08:09 G	15005524.71	15005524.84	15005524.97	0.0088	0.0023
Mercury	36371-11-15 09:21 G	15005612.77	15005612.89	15005613.03	0.0088	0.0016
Mercury	36372-02-11 10:48 G	15005700.82	15005700.95	15005701.09	0.0088	0.0009
Mercury	36372-05-09 12:14 G	15005788.87	15005789.01	15005789.14	0.0088	0.0002
Mercury	36372-08-05 13:26 G	15005876.93	15005877.06	15005877.20	0.0088	0.0007
Mercury	36372-11-01 14:53 G	15005964.99	15005965.12	15005965.25	0.0088	0.0013
Mercury	36373-01-28 16:05 G	15006053.05	15006053.17	15006053.31	0.0088	0.0021
Mercury	36373-04-26 17:31 G	15006141.10	15006141.23	15006141.36	0.0088	0.0028
Mercury	36373-07-23 18:43 G	15006229.16	15006229.28	15006229.41	0.0088	0.0036
Mercury	36373-10-19 19:55 G	15006317.23	15006317.33	15006317.46	0.0088	0.0044
Mercury	36374-01-15 21:21 G	15006405.29	15006405.39	15006405.51	0.0088	0.0051
Mercury	36374-04-13 22:48 G	15006493.36	15006493.45	15006493.56	0.0088	0.0058
Mercury	36374-07-11 00:00 G	15006581.42	15006581.50	15006581.60	0.0088	0.0065
Mercury	36374-10-07 01:26 G	15006669.49	15006669.56	15006669.65	0.0088	0.0073
Mercury	36375-01-03 02:53 G	15006757.57	15006757.62	15006757.68	0.0088	0.0080
Mercury	36375-04-01 04:05 G	15006845.67	15006845.67	15006845.70	0.0088	0.0088
Mars	36377-11-11 22:19 G	15007801.28	15007801.43	15007801.65	0.0088	0.0070
Mars	36379-10-06 18:29 G	15008494.98	15008495.27	15008495.57	0.0088	0.0005
Mars	36381-08-30 16:33 G	15009189.00	15009189.19	15009189.43	0.0088	0.0060
Moon	36395-08-15 21:36 G	15014287.31	15014287.40	15014287.49	0.0088	0.0082
Earth	36395-08-16 00:43 G	15014287.43	15014287.53	15014287.67	0.0088	0.0078 *
Earth	36396-08-17 11:45 G	15014654.82	15014654.99	15014655.19	0.0088	0.0060
Moon	36396-08-17 14:53 G	15014654.94	15014655.12	15014655.35	0.0088	0.0056 *
Moon	36397-08-19 20:53 G	15015022.16	15015022.37	15015022.59	0.0088	0.0046
Earth	36397-08-19 22:48 G	15015022.24	15015022.45	15015022.69	0.0088	0.0042 *
Earth	36398-08-22 09:50 G	15015389.67	15015389.91	15015390.17	0.0088	0.0024
Moon	36398-08-22 11:17 G	15015389.72	15015389.97	15015390.25	0.0088	0.0020 *
Earth	36399-08-24 20:38 G	15015757.11	15015757.36	15015757.63	0.0088	0.0006

Moon	36399-08-24 20:53 G	15015757.12	15015757.37	15015757.62	0.0088	0.0010	*
Moon	36400-08-26 05:45 G	15016124.49	15016124.74	15016125.02	0.0088	0.0017	
Earth	36400-08-26 07:26 G	15016124.56	15016124.81	15016125.08	0.0088	0.0013	*
Earth	36401-08-28 18:00 G	15016492.02	15016492.25	15016492.51	0.0088	0.0031	
Moon	36401-08-28 19:55 G	15016492.11	15016492.33	15016492.59	0.0088	0.0027	*
Moon	36402-08-31 01:41 G	15016859.37	15016859.57	15016859.78	0.0088	0.0053	
Earth	36402-08-31 04:48 G	15016859.50	15016859.70	15016859.93	0.0088	0.0049	*
Earth	36403-09-02 15:21 G	15017227.00	15017227.14	15017227.33	0.0088	0.0067	
Moon	36403-09-02 19:26 G	15017227.13	15017227.31	15017227.49	0.0088	0.0062	*
Earth	36404-09-04 01:55 G	15017594.54	15017594.58	15017594.68	0.0088	0.0085	
Venus	36430-05-27 20:24 G	15026991.28	15026991.35	15026991.45	0.0088	0.0081	
Venus	36431-01-08 09:36 G	15027216.76	15027216.90	15027217.05	0.0088	0.0066	
Venus	36431-08-21 22:19 G	15027442.27	15027442.43	15027442.63	0.0088	0.0051	
Venus	36432-04-03 11:31 G	15027667.79	15027667.98	15027668.19	0.0088	0.0035	
Venus	36432-11-15 00:43 G	15027893.31	15027893.53	15027893.75	0.0088	0.0019	
Venus	36433-06-28 13:41 G	15028118.85	15028119.07	15028119.29	0.0088	0.0003	
Venus	36434-02-09 02:24 G	15028344.39	15028344.60	15028344.83	0.0088	0.0013	
Venus	36434-09-22 15:36 G	15028569.94	15028570.15	15028570.36	0.0088	0.0029	
Venus	36435-05-06 04:19 G	15028795.50	15028795.68	15028795.88	0.0088	0.0045	
Venus	36435-12-17 17:02 G	15029021.07	15029021.21	15029021.39	0.0088	0.0061	
Venus	36436-07-30 06:29 G	15029246.66	15029246.77	15029246.89	0.0088	0.0076	
Mercury	36453-11-22 19:41 G	15035571.29	15035571.32	15035571.40	0.0089	0.0085	
Mercury	36454-02-18 23:31 G	15035659.39	15035659.48	15035659.60	0.0089	0.0074	
Mercury	36454-05-18 03:07 G	15035747.50	15035747.63	15035747.77	0.0089	0.0063	
Mercury	36454-08-14 06:57 G	15035835.63	15035835.79	15035835.94	0.0089	0.0052	
Mercury	36454-11-10 10:05 G	15035923.76	15035923.92	15035924.10	0.0089	0.0042	
Mercury	36455-02-06 13:41 G	15036011.90	15036012.07	15036012.26	0.0089	0.0031	
Mercury	36455-05-05 17:31 G	15036100.04	15036100.23	15036100.41	0.0089	0.0020	
Mercury	36455-08-01 20:53 G	15036188.18	15036188.37	15036188.56	0.0089	0.0010	
Mercury	36455-10-29 00:29 G	15036276.33	15036276.52	15036276.71	0.0089	0.0001	



Mercury	36456-01-25 03:50 G	15036364.48	15036364.66	15036364.85	0.0089	0.0012
Mercury	36456-04-22 07:12 G	15036452.63	15036452.80	15036453.00	0.0089	0.0023
Mercury	36456-07-19 10:48 G	15036540.78	15036540.95	15036541.13	0.0089	0.0033
Mercury	36456-10-15 14:09 G	15036628.93	15036629.09	15036629.27	0.0089	0.0044
Mercury	36457-01-11 17:45 G	15036717.09	15036717.24	15036717.39	0.0089	0.0054
Mercury	36457-04-09 20:53 G	15036805.26	15036805.37	15036805.52	0.0089	0.0065
Mercury	36457-07-07 00:29 G	15036893.43	15036893.52	15036893.63	0.0089	0.0075
Mercury	36457-10-03 03:36 G	15036981.63	15036981.65	15036981.72	0.0089	0.0086
Mars	36461-08-31 04:48 G	15038409.45	15038409.70	15038410.00	0.0089	0.0050
Mars	36463-07-28 02:09 G	15039105.29	15039105.59	15039105.93	0.0089	0.0026
Earth	36478-02-13 01:41 G	15044419.51	15044419.57	15044419.68	0.0090	0.0084
Moon	36478-02-13 03:36 G	15044419.57	15044419.65	15044419.76	0.0090	0.0083 *
Moon	36479-02-15 13:26 G	15044786.90	15044787.06	15044787.24	0.0090	0.0065
Earth	36479-02-15 14:09 G	15044786.93	15044787.09	15044787.28	0.0090	0.0065 *
Moon	36480-02-18 02:09 G	15045154.38	15045154.59	15045154.84	0.0090	0.0046
Earth	36480-02-18 02:38 G	15045154.40	15045154.61	15045154.84	0.0090	0.0046 *
Earth	36481-02-19 14:53 G	15045521.89	15045522.12	15045522.38	0.0090	0.0027
Moon	36481-02-19 17:02 G	15045521.97	15045522.21	15045522.45	0.0090	0.0027 *
Moon	36482-02-22 01:12 G	15045889.29	15045889.55	15045889.81	0.0090	0.0007
Earth	36482-02-22 03:36 G	15045889.40	15045889.65	15045889.91	0.0090	0.0007 *
Earth	36483-02-24 16:05 G	15046256.92	15046257.17	15046257.43	0.0090	0.0012
Moon	36483-02-24 19:26 G	15046257.06	15046257.31	15046257.56	0.0090	0.0013 *
Moon	36484-02-27 00:57 G	15046624.31	15046624.54	15046624.79	0.0090	0.0032
Earth	36484-02-27 04:19 G	15046624.46	15046624.68	15046624.94	0.0090	0.0032 *
Earth	36485-02-28 16:48 G	15046992.01	15046992.20	15046992.44	0.0090	0.0051
Moon	36485-02-28 20:24 G	15046992.16	15046992.35	15046992.58	0.0090	0.0052 *
Moon	36486-03-03 02:24 G	15047359.46	15047359.60	15047359.78	0.0090	0.0069
Earth	36486-03-03 05:17 G	15047359.59	15047359.72	15047359.91	0.0090	0.0070 *
Earth	36487-03-05 17:45 G	15047727.23	15047727.24	15047727.30	0.0090	0.0089
Moon	36487-03-05 19:55 G	15047727.33	15047727.33	15047727.36	0.0090	0.0089

Venus	36511-12-02 12:14 G	15056763.91	15056764.01	15056764.12	0.0089	0.0079
Venus	36512-07-15 01:26 G	15056989.41	15056989.56	15056989.72	0.0089	0.0063
Venus	36513-02-25 14:38 G	15057214.93	15057215.11	15057215.30	0.0089	0.0047
Venus	36513-10-09 03:36 G	15057440.45	15057440.65	15057440.86	0.0089	0.0031
Venus	36514-05-22 16:48 G	15057665.98	15057666.20	15057666.41	0.0089	0.0015
Venus	36515-01-03 05:45 G	15057891.52	15057891.74	15057891.96	0.0089	0.0002
Venus	36515-08-16 18:43 G	15058117.07	15058117.28	15058117.50	0.0089	0.0018
Venus	36516-03-29 07:41 G	15058342.62	15058342.82	15058343.03	0.0089	0.0034
Venus	36516-11-09 20:38 G	15058568.18	15058568.36	15058568.55	0.0089	0.0050
Venus	36517-06-23 09:36 G	15058793.76	15058793.90	15058794.05	0.0089	0.0065
Venus	36518-02-03 22:33 G	15059019.36	15059019.44	15059019.54	0.0089	0.0081
Mercury	36534-03-15 19:12 G	15064903.30	15064903.30	15064903.34	0.0088	0.0088
Mercury	36534-06-11 20:53 G	15064991.32	15064991.37	15064991.43	0.0088	0.0080
Mercury	36534-09-07 22:05 G	15065079.35	15065079.42	15065079.50	0.0088	0.0073
Mercury	36534-12-04 23:17 G	15065167.39	15065167.47	15065167.57	0.0088	0.0066
Mercury	36535-03-03 00:43 G	15065255.44	15065255.53	15065255.63	0.0088	0.0058
Mercury	36535-05-30 02:09 G	15065343.48	15065343.59	15065343.70	0.0088	0.0051
Mercury	36535-08-26 03:21 G	15065431.53	15065431.64	15065431.76	0.0088	0.0044
Mercury	36535-11-22 04:48 G	15065519.58	15065519.70	15065519.82	0.0088	0.0036
Mercury	36536-02-18 06:00 G	15065607.63	15065607.75	15065607.88	0.0088	0.0029
Mercury	36536-05-16 07:26 G	15065695.68	15065695.81	15065695.94	0.0088	0.0022
Mercury	36536-08-12 08:53 G	15065783.74	15065783.87	15065784.00	0.0088	0.0015
Mercury	36536-11-08 10:05 G	15065871.79	15065871.92	15065872.06	0.0088	0.0007
Mercury	36537-02-04 11:31 G	15065959.84	15065959.98	15065960.11	0.0088	0.0001
Mercury	36537-05-03 12:43 G	15066047.90	15066048.03	15066048.17	0.0088	0.0008
Mercury	36537-07-30 14:09 G	15066135.96	15066136.09	15066136.22	0.0088	0.0015
Mercury	36537-10-26 15:21 G	15066224.02	15066224.14	15066224.27	0.0088	0.0022
Mercury	36538-01-22 16:48 G	15066312.07	15066312.20	15066312.33	0.0088	0.0030
Mercury	36538-04-20 18:00 G	15066400.14	15066400.25	15066400.38	0.0088	0.0037
Mercury	36538-07-17 19:26 G	15066488.20	15066488.31	15066488.43	0.0088	0.0044

Mercury	36538-10-13 20:53 G	15066576.26	15066576.37	15066576.48	0.0088	0.0052
Mercury	36539-01-09 22:05 G	15066664.33	15066664.42	15066664.52	0.0088	0.0059
Mercury	36539-04-07 23:31 G	15066752.39	15066752.48	15066752.57	0.0088	0.0067
Mercury	36539-07-05 00:43 G	15066840.47	15066840.53	15066840.61	0.0088	0.0074
Mercury	36539-10-01 02:09 G	15066928.55	15066928.59	15066928.65	0.0088	0.0081
Mars	36541-06-28 05:45 G	15067564.74	15067564.74	15067564.74	0.0088	0.0088
Mars	36543-05-23 00:00 G	15068258.23	15068258.50	15068258.80	0.0088	0.0025
Mars	36545-04-15 19:12 G	15068952.06	15068952.30	15068952.59	0.0088	0.0040
Moon	36560-08-17 16:05 G	15074555.03	15074555.17	15074555.33	0.0088	0.0069
Earth	36560-08-17 18:00 G	15074555.11	15074555.25	15074555.41	0.0088	0.0071 *
Earth	36561-08-20 04:48 G	15074922.51	15074922.70	15074922.93	0.0088	0.0053
Moon	36561-08-20 05:17 G	15074922.52	15074922.72	15074922.94	0.0088	0.0055 *
Earth	36562-08-22 15:50 G	15075289.94	15075290.16	15075290.42	0.0088	0.0035
Moon	36562-08-22 16:33 G	15075289.97	15075290.19	15075290.44	0.0088	0.0033 *
Moon	36563-08-25 00:57 G	15075657.30	15075657.54	15075657.82	0.0088	0.0019
Earth	36563-08-25 03:07 G	15075657.38	15075657.63	15075657.89	0.0088	0.0016 *
Earth	36564-08-26 13:55 G	15076024.82	15076025.08	15076025.34	0.0088	0.0002
Moon	36564-08-26 17:02 G	15076024.96	15076025.21	15076025.46	0.0088	0.0004 *
Moon	36565-08-28 21:21 G	15076392.14	15076392.39	15076392.66	0.0088	0.0019
Earth	36565-08-29 00:57 G	15076392.29	15076392.54	15076392.79	0.0088	0.0020 *
Earth	36566-08-31 11:17 G	15076759.75	15076759.97	15076760.22	0.0088	0.0039
Moon	36566-08-31 15:21 G	15076759.91	15076760.14	15076760.37	0.0088	0.0040 *
Moon	36567-09-02 18:43 G	15077127.11	15077127.28	15077127.50	0.0088	0.0055
Earth	36567-09-02 21:50 G	15077127.24	15077127.41	15077127.63	0.0088	0.0057 *
Earth	36568-09-04 08:24 G	15077494.75	15077494.85	15077495.01	0.0088	0.0075
Moon	36568-09-04 11:02 G	15077494.86	15077494.96	15077495.13	0.0088	0.0076 *
Venus	36595-04-12 17:17 G	15087211.12	15087211.22	15087211.36	0.0088	0.0073
Venus	36595-11-24 06:29 G	15087436.61	15087436.77	15087436.94	0.0088	0.0057
Venus	36596-07-06 19:12 G	15087662.12	15087662.30	15087662.51	0.0088	0.0042
Venus	36597-02-17 08:24 G	15087887.64	15087887.85	15087888.07	0.0088	0.0026

Venus	36597-09-30 21:36 G	15088113.18	15088113.40	15088113.62	0.0088	0.0011
Venus	36598-05-14 10:33 G	15088338.72	15088338.94	15088339.16	0.0088	0.0005
Venus	36598-12-25 23:17 G	15088564.26	15088564.47	15088564.69	0.0088	0.0021
Venus	36599-08-08 12:29 G	15088789.82	15088790.02	15088790.22	0.0088	0.0036
Venus	36600-03-22 01:12 G	15089015.39	15089015.55	15089015.74	0.0088	0.0052
Venus	36600-11-02 14:24 G	15089240.96	15089241.10	15089241.24	0.0088	0.0068
Venus	36601-06-16 02:53 G	15089466.57	15089466.62	15089466.71	0.0088	0.0084
Mercury	36618-08-21 17:02 G	15095742.16	15095742.21	15095742.28	0.0089	0.0084
Mercury	36618-11-17 20:38 G	15095830.26	15095830.36	15095830.48	0.0089	0.0073
Mercury	36619-02-14 00:29 G	15095918.38	15095918.52	15095918.66	0.0089	0.0062
Mercury	36619-05-13 03:36 G	15096006.51	15096006.65	15096006.82	0.0089	0.0052
Mercury	36619-08-09 07:12 G	15096094.64	15096094.80	15096094.98	0.0089	0.0041
Mercury	36619-11-05 11:02 G	15096182.78	15096182.96	15096183.14	0.0089	0.0030
Mercury	36620-02-01 14:24 G	15096270.92	15096271.10	15096271.30	0.0089	0.0020
Mercury	36620-04-29 18:00 G	15096359.06	15096359.25	15096359.45	0.0089	0.0009
Mercury	36620-07-26 21:36 G	15096447.21	15096447.40	15096447.59	0.0089	0.0002
Mercury	36620-10-23 00:57 G	15096535.36	15096535.54	15096535.74	0.0089	0.0013
Mercury	36621-01-19 04:33 G	15096623.51	15096623.69	15096623.88	0.0089	0.0023
Mercury	36621-04-17 07:55 G	15096711.66	15096711.83	15096712.01	0.0089	0.0034
Mercury	36621-07-14 11:31 G	15096799.82	15096799.98	15096800.15	0.0089	0.0044
Mercury	36621-10-10 14:38 G	15096887.98	15096888.11	15096888.27	0.0089	0.0055
Mercury	36622-01-06 18:00 G	15096976.14	15096976.25	15096976.40	0.0089	0.0066
Mercury	36622-04-04 21:36 G	15097064.32	15097064.40	15097064.51	0.0089	0.0076
Mercury	36622-07-02 01:12 G	15097152.51	15097152.55	15097152.60	0.0089	0.0086
Mars	36625-04-15 11:17 G	15098170.82	15098170.97	15098171.16	0.0089	0.0077
Mars	36627-03-12 12:00 G	15098866.67	15098867.00	15098867.34	0.0089	0.0001
Mars	36629-02-05 08:24 G	15099562.71	15099562.85	15099563.05	0.0089	0.0076
Moon	36643-02-16 17:31 G	15104687.09	15104687.23	15104687.40	0.0090	0.0073
Earth	36643-02-16 18:57 G	15104687.17	15104687.29	15104687.43	0.0090	0.0077 *
Earth	36644-02-19 07:12 G	15105054.62	15105054.80	15105055.01	0.0090	0.0058

Moon	36644-02-19 09:07 G	15105054.72	15105054.88	15105055.08	0.0090	0.0063 *
Moon	36645-02-20 16:19 G	15105421.95	15105422.18	15105422.43	0.0090	0.0034
Earth	36645-02-20 19:26 G	15105422.10	15105422.31	15105422.56	0.0090	0.0039 *
Earth	36646-02-23 08:09 G	15105789.59	15105789.84	15105790.09	0.0090	0.0019
Moon	36646-02-23 11:17 G	15105789.73	15105789.97	15105790.23	0.0090	0.0024 *
Moon	36647-02-25 17:02 G	15106156.95	15106157.21	15106157.47	0.0090	0.0005
Earth	36647-02-25 20:38 G	15106157.10	15106157.36	15106157.62	0.0090	0.0001 *
Earth	36648-02-28 09:07 G	15106524.63	15106524.88	15106525.13	0.0090	0.0020
Moon	36648-02-28 12:00 G	15106524.75	15106525.00	15106525.27	0.0090	0.0015 *
Moon	36649-03-01 18:57 G	15106892.09	15106892.29	15106892.53	0.0090	0.0044
Earth	36649-03-01 21:07 G	15106892.17	15106892.38	15106892.63	0.0090	0.0040 *
Earth	36650-03-04 09:50 G	15107259.73	15107259.91	15107260.12	0.0090	0.0059
Moon	36650-03-04 11:31 G	15107259.78	15107259.98	15107260.20	0.0090	0.0054 *
Earth	36651-03-06 22:33 G	15107627.33	15107627.44	15107627.58	0.0090	0.0078
Moon	36651-03-06 22:33 G	15107627.37	15107627.44	15107627.56	0.0090	0.0083 *
Venus	36676-03-05 20:09 G	15116758.31	15116758.34	15116758.42	0.0089	0.0086
Venus	36676-10-17 09:21 G	15116983.78	15116983.89	15116984.05	0.0089	0.0070
Venus	36677-05-30 22:33 G	15117209.28	15117209.44	15117209.63	0.0089	0.0054
Venus	36678-01-11 11:45 G	15117434.81	15117434.99	15117435.20	0.0089	0.0038
Venus	36678-08-25 00:57 G	15117660.34	15117660.54	15117660.76	0.0089	0.0022
Venus	36679-04-07 14:09 G	15117885.88	15117886.09	15117886.31	0.0089	0.0006
Venus	36679-11-19 03:21 G	15118111.42	15118111.64	15118111.86	0.0089	0.0010
Venus	36680-07-01 16:05 G	15118336.97	15118337.17	15118337.39	0.0089	0.0026
Venus	36681-02-12 05:17 G	15118562.54	15118562.72	15118562.92	0.0089	0.0042
Venus	36681-09-25 18:00 G	15118788.10	15118788.25	15118788.44	0.0089	0.0058
Venus	36682-05-09 06:57 G	15119013.69	15119013.79	15119013.93	0.0089	0.0074
Mercury	36698-12-11 18:29 G	15125074.25	15125074.27	15125074.31	0.0088	0.0086
Mercury	36699-03-09 19:41 G	15125162.28	15125162.32	15125162.39	0.0088	0.0079
Mercury	36699-06-05 21:21 G	15125250.31	15125250.39	15125250.47	0.0088	0.0072
Mercury	36699-09-01 22:33 G	15125338.36	15125338.44	15125338.53	0.0088	0.0065

Mercury	36699-11-28 23:45 G	15125426.40	15125426.49	15125426.60	0.0088	0.0058
Mercury	36700-02-25 00:57 G	15125514.44	15125514.54	15125514.66	0.0088	0.0051
Mercury	36700-05-24 02:38 G	15125602.49	15125602.61	15125602.72	0.0088	0.0043
Mercury	36700-08-20 03:50 G	15125690.54	15125690.66	15125690.79	0.0088	0.0036
Mercury	36700-11-16 05:02 G	15125778.59	15125778.71	15125778.85	0.0088	0.0029
Mercury	36701-02-12 06:29 G	15125866.64	15125866.77	15125866.90	0.0088	0.0021
Mercury	36701-05-11 07:55 G	15125954.70	15125954.83	15125954.96	0.0088	0.0014
Mercury	36701-08-07 09:21 G	15126042.75	15126042.89	15126043.02	0.0088	0.0007
Mercury	36701-11-03 10:33 G	15126130.81	15126130.94	15126131.07	0.0088	0.0001
Mercury	36702-01-30 12:00 G	15126218.86	15126219.00	15126219.13	0.0088	0.0009
Mercury	36702-04-28 13:12 G	15126306.92	15126307.05	15126307.18	0.0088	0.0016
Mercury	36702-07-25 14:24 G	15126394.98	15126395.10	15126395.24	0.0088	0.0024
Mercury	36702-10-21 15:50 G	15126483.04	15126483.16	15126483.29	0.0088	0.0031
Mercury	36703-01-17 17:02 G	15126571.10	15126571.21	15126571.34	0.0088	0.0038
Mercury	36703-04-15 18:29 G	15126659.16	15126659.27	15126659.39	0.0088	0.0045
Mercury	36703-07-12 19:55 G	15126747.22	15126747.33	15126747.44	0.0088	0.0053
Mercury	36703-10-08 21:07 G	15126835.29	15126835.38	15126835.49	0.0088	0.0060
Mercury	36704-01-04 22:33 G	15126923.36	15126923.44	15126923.53	0.0088	0.0068
Mercury	36704-04-01 23:45 G	15127011.43	15127011.49	15127011.57	0.0088	0.0075
Mercury	36704-06-29 01:12 G	15127099.51	15127099.55	15127099.60	0.0088	0.0082
Mars	36707-01-07 03:21 G	15128021.41	15128021.64	15128021.91	0.0088	0.0045
Mars	36708-11-30 23:02 G	15128715.18	15128715.46	15128715.76	0.0088	0.0019
Mars	36710-10-25 18:14 G	15129409.20	15129409.26	15129409.37	0.0088	0.0084
Earth	36724-08-19 00:00 G	15134455.42	15134455.50	15134455.60	0.0088	0.0082
Moon	36724-08-18 23:17 G	15134455.45	15134455.47	15134455.57	0.0088	0.0086 *
Earth	36725-08-21 11:02 G	15134822.80	15134822.96	15134823.15	0.0088	0.0064
Moon	36725-08-21 12:43 G	15134822.87	15134823.03	15134823.23	0.0088	0.0061 *
Moon	36726-08-23 19:12 G	15135190.10	15135190.30	15135190.55	0.0088	0.0049
Earth	36726-08-23 22:05 G	15135190.22	15135190.42	15135190.66	0.0088	0.0046 *
Earth	36727-08-26 08:53 G	15135557.64	15135557.87	15135558.13	0.0088	0.0028

Moon	36727-08-26 12:14 G	15135557.77	15135558.01	15135558.26	0.0088	0.0024 *
Moon	36728-08-27 16:33 G	15135924.94	15135925.19	15135925.45	0.0088	0.0012
Earth	36728-08-27 20:09 G	15135925.09	15135925.34	15135925.60	0.0088	0.0009 *
Earth	36729-08-30 06:57 G	15136292.54	15136292.79	15136293.06	0.0088	0.0010
Moon	36729-08-30 10:33 G	15136292.68	15136292.94	15136293.20	0.0088	0.0013 *
Moon	36730-09-01 14:53 G	15136659.88	15136660.12	15136660.37	0.0088	0.0024
Earth	36730-09-01 17:45 G	15136660.00	15136660.24	15136660.49	0.0088	0.0028 *
Earth	36731-09-04 04:05 G	15137027.47	15137027.67	15137027.91	0.0088	0.0047
Moon	36731-09-04 06:00 G	15137027.55	15137027.75	15137027.98	0.0088	0.0050 *
Moon	36732-09-05 14:09 G	15137394.94	15137395.09	15137395.29	0.0088	0.0062
Earth	36732-09-05 14:53 G	15137394.97	15137395.12	15137395.31	0.0088	0.0065 *
Earth	36733-09-08 01:26 G	15137762.50	15137762.56	15137762.67	0.0088	0.0083
Moon	36733-09-08 00:57 G	15137762.53	15137762.54	15137762.62	0.0088	0.0087 *
Venus	36759-07-17 01:12 G	15147205.49	15147205.55	15147205.67	0.0088	0.0080
Venus	36760-02-27 14:38 G	15147430.96	15147431.11	15147431.26	0.0088	0.0064
Venus	36760-10-10 03:07 G	15147656.47	15147656.63	15147656.83	0.0088	0.0050
Venus	36761-05-23 16:05 G	15147881.98	15147882.17	15147882.39	0.0088	0.0034
Venus	36762-01-04 05:02 G	15148107.50	15148107.71	15148107.94	0.0088	0.0018
Venus	36762-08-17 18:14 G	15148333.04	15148333.26	15148333.48	0.0088	0.0003
Venus	36763-03-31 07:12 G	15148558.58	15148558.80	15148559.02	0.0088	0.0013
Venus	36763-11-11 20:09 G	15148784.13	15148784.34	15148784.55	0.0088	0.0029
Venus	36764-06-24 08:38 G	15149009.69	15149009.86	15149010.07	0.0088	0.0045
Venus	36765-02-04 22:05 G	15149235.26	15149235.42	15149235.58	0.0088	0.0060
Venus	36765-09-18 10:48 G	15149460.85	15149460.95	15149461.08	0.0088	0.0075
Mercury	36783-05-19 13:41 G	15155913.03	15155913.07	15155913.15	0.0089	0.0084
Mercury	36783-08-15 17:31 G	15156001.13	15156001.23	15156001.35	0.0089	0.0073
Mercury	36783-11-11 21:07 G	15156089.25	15156089.38	15156089.53	0.0089	0.0062
Mercury	36784-02-08 00:29 G	15156177.38	15156177.52	15156177.69	0.0089	0.0052
Mercury	36784-05-06 04:05 G	15156265.51	15156265.67	15156265.86	0.0089	0.0041
Mercury	36784-08-02 07:41 G	15156353.65	15156353.82	15156354.01	0.0089	0.0030

Mercury	36784-10-29 11:31 G	15156441.79	15156441.98	15156442.17	0.0089	0.0019
Mercury	36785-01-25 14:53 G	15156529.93	15156530.12	15156530.32	0.0089	0.0009
Mercury	36785-04-23 18:29 G	15156618.08	15156618.27	15156618.46	0.0089	0.0002
Mercury	36785-07-20 21:50 G	15156706.23	15156706.41	15156706.61	0.0089	0.0013
Mercury	36785-10-17 01:12 G	15156794.38	15156794.55	15156794.75	0.0089	0.0024
Mercury	36786-01-13 04:48 G	15156882.53	15156882.70	15156882.88	0.0089	0.0034
Mercury	36786-04-11 08:09 G	15156970.69	15156970.84	15156971.02	0.0089	0.0045
Mercury	36786-07-08 11:45 G	15157058.85	15157058.99	15157059.15	0.0089	0.0055
Mercury	36786-10-04 15:07 G	15157147.01	15157147.13	15157147.27	0.0089	0.0066
Mercury	36786-12-31 18:43 G	15157235.19	15157235.28	15157235.38	0.0089	0.0076
Mercury	36787-03-29 21:50 G	15157323.39	15157323.41	15157323.47	0.0089	0.0087
Mars	36790-10-24 17:45 G	15158627.93	15158628.24	15158628.57	0.0089	0.0026
Mars	36792-09-19 18:00 G	15159323.99	15159324.25	15159324.53	0.0089	0.0051
Jupiter	36803-07-31 05:17 G	15163290.28	15163290.72	15163291.18	0.0089	0.0049
Earth	36807-02-16 22:33 G	15164587.44	15164587.44	15164587.47	0.0090	0.0089
Moon	36807-02-17 01:26 G	15164587.52	15164587.56	15164587.64	0.0090	0.0087
Moon	36808-02-19 07:26 G	15164954.68	15164954.81	15164954.98	0.0090	0.0072
Earth	36808-02-19 11:02 G	15164954.81	15164954.96	15164955.13	0.0090	0.0070 *
Earth	36809-02-20 23:02 G	15165322.26	15165322.46	15165322.68	0.0090	0.0051
Moon	36809-02-21 02:38 G	15165322.41	15165322.61	15165322.84	0.0090	0.0049 *
Moon	36810-02-23 08:24 G	15165689.63	15165689.85	15165690.10	0.0090	0.0034
Earth	36810-02-23 11:17 G	15165689.75	15165689.97	15165690.23	0.0090	0.0032 *
Earth	36811-02-26 00:00 G	15166057.25	15166057.50	15166057.76	0.0090	0.0012
Moon	36811-02-26 02:53 G	15166057.36	15166057.62	15166057.88	0.0090	0.0011 *
Moon	36812-02-28 10:48 G	15166424.71	15166424.95	15166425.21	0.0090	0.0007
Earth	36812-02-28 12:29 G	15166424.76	15166425.02	15166425.27	0.0090	0.0008 *
Earth	36813-03-02 00:29 G	15166792.29	15166792.52	15166792.78	0.0090	0.0028
Moon	36813-03-02 00:43 G	15166792.29	15166792.53	15166792.79	0.0090	0.0029 *
Earth	36814-03-04 13:12 G	15167159.84	15167160.05	15167160.28	0.0090	0.0047
Moon	36814-03-04 13:26 G	15167159.87	15167160.06	15167160.29	0.0090	0.0047 *



Moon	36815-03-06 23:17 G	15167527.32	15167527.47	15167527.66	0.0090	0.0068
Earth	36815-03-07 01:26 G	15167527.41	15167527.56	15167527.76	0.0090	0.0067 *
Earth	36816-03-08 14:09 G	15167895.04	15167895.09	15167895.18	0.0090	0.0086
Moon	36816-03-08 17:02 G	15167895.15	15167895.21	15167895.31	0.0090	0.0085 *
Venus	36841-01-19 17:17 G	15176978.12	15176978.22	15176978.34	0.0089	0.0078
Venus	36841-09-02 06:29 G	15177203.62	15177203.77	15177203.94	0.0089	0.0062
Venus	36842-04-15 19:41 G	15177429.14	15177429.32	15177429.51	0.0089	0.0046
Venus	36842-11-27 08:53 G	15177654.66	15177654.87	15177655.08	0.0089	0.0030
Venus	36843-07-10 22:05 G	15177880.20	15177880.42	15177880.63	0.0089	0.0014
Venus	36844-02-21 11:17 G	15178105.75	15178105.97	15178106.19	0.0089	0.0002
Venus	36844-10-04 00:14 G	15178331.30	15178331.51	15178331.73	0.0089	0.0018
Venus	36845-05-17 13:12 G	15178556.85	15178557.05	15178557.26	0.0089	0.0034
Venus	36845-12-29 01:55 G	15178782.42	15178782.58	15178782.78	0.0089	0.0050
Venus	36846-08-11 14:53 G	15179007.99	15179008.12	15179008.29	0.0089	0.0066
Venus	36847-03-25 04:33 G	15179233.60	15179233.69	15179233.77	0.0089	0.0082
Mercury	36863-09-08 17:31 G	15185245.21	15185245.23	15185245.28	0.0088	0.0086
Mercury	36863-12-05 18:57 G	15185333.24	15185333.29	15185333.36	0.0088	0.0078
Mercury	36864-03-02 20:24 G	15185421.28	15185421.35	15185421.43	0.0088	0.0071
Mercury	36864-05-29 21:36 G	15185509.32	15185509.40	15185509.50	0.0088	0.0064
Mercury	36864-08-25 23:02 G	15185597.36	15185597.46	15185597.56	0.0088	0.0056
Mercury	36864-11-22 00:14 G	15185685.41	15185685.51	15185685.63	0.0088	0.0049
Mercury	36865-02-18 01:41 G	15185773.46	15185773.57	15185773.69	0.0088	0.0042
Mercury	36865-05-17 02:53 G	15185861.50	15185861.62	15185861.75	0.0088	0.0035
Mercury	36865-08-13 04:19 G	15185949.55	15185949.68	15185949.81	0.0088	0.0027
Mercury	36865-11-09 05:31 G	15186037.61	15186037.73	15186037.87	0.0088	0.0020
Mercury	36866-02-05 06:57 G	15186125.66	15186125.79	15186125.92	0.0088	0.0013
Mercury	36866-05-04 08:24 G	15186213.71	15186213.85	15186213.98	0.0088	0.0006
Mercury	36866-07-31 09:36 G	15186301.77	15186301.90	15186302.04	0.0088	0.0002
Mercury	36866-10-27 11:02 G	15186389.82	15186389.96	15186390.09	0.0088	0.0009
Mercury	36867-01-23 12:14 G	15186477.88	15186478.01	15186478.15	0.0088	0.0017

Mercury	36867-04-21 13:26 G	15186565.94	15186566.06	15186566.20	0.0088	0.0025
Mercury	36867-07-18 14:53 G	15186654.00	15186654.12	15186654.25	0.0088	0.0032
Mercury	36867-10-14 16:19 G	15186742.06	15186742.18	15186742.30	0.0088	0.0039
Mercury	36868-01-10 17:31 G	15186830.12	15186830.23	15186830.35	0.0088	0.0046
Mercury	36868-04-07 18:57 G	15186918.19	15186918.29	15186918.40	0.0088	0.0054
Mercury	36868-07-04 20:09 G	15187006.25	15187006.34	15187006.45	0.0088	0.0061
Mercury	36868-09-30 21:36 G	15187094.32	15187094.40	15187094.49	0.0088	0.0069
Mercury	36868-12-27 22:48 G	15187182.40	15187182.45	15187182.53	0.0088	0.0076
Mercury	36869-03-26 00:14 G	15187270.48	15187270.51	15187270.56	0.0088	0.0084
Mars	36870-08-22 07:26 G	15187784.65	15187784.81	15187785.03	0.0088	0.0067
Mars	36872-07-16 02:09 G	15188478.30	15188478.59	15188478.89	0.0088	0.0002
Mars	36874-06-09 21:36 G	15189172.22	15189172.40	15189172.63	0.0088	0.0064
Moon	36889-08-20 13:26 G	15194722.92	15194723.06	15194723.22	0.0088	0.0071
Earth	36889-08-20 16:19 G	15194723.08	15194723.18	15194723.34	0.0088	0.0076 *
Earth	36890-08-23 03:21 G	15195090.46	15195090.64	15195090.85	0.0088	0.0057
Moon	36890-08-23 06:43 G	15195090.62	15195090.78	15195090.99	0.0088	0.0061 *
Moon	36891-08-25 11:17 G	15195457.74	15195457.97	15195458.21	0.0088	0.0035
Earth	36891-08-25 14:24 G	15195457.89	15195458.10	15195458.35	0.0088	0.0039 *
Earth	36892-08-27 01:41 G	15195825.33	15195825.57	15195825.83	0.0088	0.0020
Moon	36892-08-27 04:48 G	15195825.46	15195825.70	15195825.97	0.0088	0.0024 *
Moon	36893-08-29 10:48 G	15196192.71	15196192.95	15196193.21	0.0088	0.0003
Earth	36893-08-29 12:57 G	15196192.78	15196193.04	15196193.30	0.0088	0.0001 *
Earth	36894-08-31 23:31 G	15196560.24	15196560.48	15196560.75	0.0088	0.0018
Moon	36894-09-01 01:12 G	15196560.29	15196560.55	15196560.82	0.0088	0.0014 *
Earth	36895-09-03 10:19 G	15196927.71	15196927.93	15196928.18	0.0088	0.0036
Moon	36895-09-03 10:19 G	15196927.73	15196927.93	15196928.18	0.0088	0.0040 *
Moon	36896-09-04 19:26 G	15197295.11	15197295.31	15197295.55	0.0088	0.0051
Earth	36896-09-04 20:53 G	15197295.20	15197295.37	15197295.60	0.0088	0.0055 *
Earth	36897-09-07 07:41 G	15197662.70	15197662.82	15197662.99	0.0088	0.0073
Moon	36897-09-07 09:50 G	15197662.81	15197662.91	15197663.06	0.0088	0.0076 *

Moon	36898-09-09 15:07 G	15198030.12	15198030.13	15198030.17	0.0088	0.0087
Venus	36923-10-19 09:07 G	15207199.87	15207199.88	15207199.93	0.0088	0.0087
Venus	36924-05-31 21:50 G	15207425.31	15207425.41	15207425.56	0.0088	0.0072
Venus	36925-01-12 11:02 G	15207650.80	15207650.96	15207651.14	0.0088	0.0056
Venus	36925-08-26 00:00 G	15207876.31	15207876.50	15207876.70	0.0088	0.0041
Venus	36926-04-08 12:43 G	15208101.83	15208102.03	15208102.26	0.0088	0.0026
Venus	36926-11-20 01:55 G	15208327.36	15208327.58	15208327.80	0.0088	0.0010
Venus	36927-07-03 14:38 G	15208552.89	15208553.11	15208553.34	0.0088	0.0005
Venus	36928-02-14 03:21 G	15208778.44	15208778.64	15208778.87	0.0088	0.0021
Venus	36928-09-26 16:33 G	15209003.99	15209004.19	15209004.40	0.0088	0.0036
Venus	36929-05-10 05:02 G	15209229.56	15209229.71	15209229.91	0.0088	0.0052
Venus	36929-12-21 18:14 G	15209455.13	15209455.26	15209455.41	0.0088	0.0067
Venus	36930-08-04 07:26 G	15209680.74	15209680.81	15209680.89	0.0088	0.0083
Mercury	36948-02-14 10:33 G	15216083.89	15216083.94	15216084.02	0.0089	0.0084
Mercury	36948-05-12 14:09 G	15216172.00	15216172.09	15216172.21	0.0089	0.0073
Mercury	36948-08-08 18:00 G	15216260.12	15216260.25	15216260.39	0.0089	0.0062
Mercury	36948-11-04 21:07 G	15216348.24	15216348.38	15216348.56	0.0089	0.0052
Mercury	36949-02-01 00:57 G	15216436.38	15216436.54	15216436.72	0.0089	0.0041
Mercury	36949-04-30 04:33 G	15216524.52	15216524.69	15216524.88	0.0089	0.0030
Mercury	36949-07-27 08:09 G	15216612.66	15216612.84	15216613.03	0.0089	0.0019
Mercury	36949-10-23 11:45 G	15216700.80	15216700.99	15216701.18	0.0089	0.0009
Mercury	36950-01-19 15:21 G	15216788.94	15216789.14	15216789.33	0.0089	0.0003
Mercury	36950-04-17 18:43 G	15216877.09	15216877.28	15216877.47	0.0089	0.0013
Mercury	36950-07-14 22:05 G	15216965.24	15216965.42	15216965.61	0.0089	0.0024
Mercury	36950-10-11 01:41 G	15217053.40	15217053.57	15217053.75	0.0089	0.0034
Mercury	36951-01-07 04:48 G	15217141.55	15217141.70	15217141.88	0.0089	0.0045
Mercury	36951-04-05 08:38 G	15217229.71	15217229.86	15217230.01	0.0089	0.0055
Mercury	36951-07-02 11:45 G	15217317.88	15217317.99	15217318.13	0.0089	0.0066
Mercury	36951-09-28 15:21 G	15217406.05	15217406.14	15217406.25	0.0089	0.0076
Mercury	36951-12-25 18:29 G	15217494.25	15217494.27	15217494.33	0.0089	0.0087

Mars	36954-06-07 20:38 G	15218389.13	15218389.36	15218389.66	0.0089	0.0054
Mars	36956-05-03 22:19 G	15219085.12	15219085.43	15219085.77	0.0089	0.0024
Jupiter	36969-09-29 17:31 G	15223981.97	15223982.23	15223982.53	0.0089	0.0076
Earth	36972-02-19 14:09 G	15224855.01	15224855.09	15224855.21	0.0090	0.0083
Moon	36972-02-19 17:45 G	15224855.13	15224855.24	15224855.37	0.0090	0.0079 *
Moon	36973-02-21 00:00 G	15225222.34	15225222.50	15225222.67	0.0090	0.0067
Earth	36973-02-21 03:07 G	15225222.45	15225222.63	15225222.81	0.0090	0.0063 *
Earth	36974-02-23 15:07 G	15225589.92	15225590.13	15225590.36	0.0090	0.0044
Moon	36974-02-23 16:48 G	15225589.97	15225590.20	15225590.44	0.0090	0.0040 *
Moon	36975-02-26 02:38 G	15225957.39	15225957.61	15225957.86	0.0090	0.0028
Earth	36975-02-26 03:36 G	15225957.40	15225957.65	15225957.90	0.0090	0.0024 *
Moon	36976-02-28 15:21 G	15226324.88	15226325.14	15226325.41	0.0090	0.0001
Earth	36976-02-28 15:50 G	15226324.91	15226325.16	15226325.42	0.0090	0.0005 *
Earth	36977-03-02 04:05 G	15226692.42	15226692.67	15226692.93	0.0090	0.0016
Moon	36977-03-02 06:14 G	15226692.51	15226692.76	15226693.01	0.0090	0.0012 *
Moon	36978-03-04 13:55 G	15227059.85	15227060.08	15227060.32	0.0090	0.0039
Earth	36978-03-04 16:19 G	15227059.96	15227060.18	15227060.43	0.0090	0.0036 *
Earth	36979-03-07 04:48 G	15227427.51	15227427.70	15227427.91	0.0090	0.0055
Moon	36979-03-07 07:55 G	15227427.65	15227427.83	15227428.06	0.0090	0.0051 *
Moon	36980-03-08 13:12 G	15227794.96	15227795.05	15227795.20	0.0090	0.0079
Earth	36980-03-08 16:48 G	15227795.09	15227795.20	15227795.37	0.0090	0.0075 *
Moon	36981-03-11 09:07 G	15228162.88	15228162.88	15228162.91	0.0090	0.0090

## 38TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 38th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	37005-04-25 00:29	G	15236972.48	15236972.52	15236972.61	0.0089	0.0086	
Venus	37005-12-06 13:41	G	15237197.95	15237198.07	15237198.23	0.0089	0.0070	
Venus	37006-07-20 03:07	G	15237423.46	15237423.63	15237423.81	0.0089	0.0053	
Venus	37007-03-02 16:19	G	15237648.99	15237649.18	15237649.39	0.0089	0.0038	
Venus	37007-10-14 05:45	G	15237874.53	15237874.74	15237874.95	0.0089	0.0022	
Venus	37008-05-26 18:43	G	15238100.07	15238100.28	15238100.50	0.0089	0.0006	
Venus	37009-01-07 07:55	G	15238325.61	15238325.83	15238326.05	0.0089	0.0010	
Venus	37009-08-20 20:53	G	15238551.17	15238551.37	15238551.59	0.0089	0.0026	
Venus	37010-04-03 09:50	G	15238776.73	15238776.91	15238777.12	0.0089	0.0043	
Venus	37010-11-14 22:48	G	15239002.31	15239002.45	15239002.64	0.0089	0.0058	
Venus	37011-06-28 12:14	G	15239227.89	15239228.01	15239228.14	0.0089	0.0074	
Mercury	37028-06-06 16:48	G	15245416.17	15245416.20	15245416.24	0.0089	0.0085	
Mercury	37028-09-02 18:00	G	15245504.20	15245504.25	15245504.32	0.0089	0.0078	
Mercury	37028-11-29 19:12	G	15245592.23	15245592.30	15245592.39	0.0089	0.0071	
Mercury	37029-02-25 20:38	G	15245680.28	15245680.36	15245680.46	0.0088	0.0063	
Mercury	37029-05-24 21:50	G	15245768.32	15245768.41	15245768.52	0.0088	0.0056	
Mercury	37029-08-20 23:17	G	15245856.37	15245856.47	15245856.59	0.0088	0.0049	
Mercury	37029-11-17 00:29	G	15245944.41	15245944.52	15245944.65	0.0088	0.0042	
Mercury	37030-02-13 01:55	G	15246032.46	15246032.58	15246032.71	0.0088	0.0034	
Mercury	37030-05-12 03:21	G	15246120.51	15246120.64	15246120.77	0.0088	0.0027	
Mercury	37030-08-08 04:33	G	15246208.56	15246208.69	15246208.82	0.0088	0.0020	
Mercury	37030-11-04 06:00	G	15246296.62	15246296.75	15246296.88	0.0088	0.0012	
Mercury	37031-01-31 07:12	G	15246384.67	15246384.80	15246384.94	0.0088	0.0006	
Mercury	37031-04-29 08:38	G	15246472.73	15246472.86	15246472.99	0.0088	0.0002	
Mercury	37031-07-26 09:50	G	15246560.78	15246560.91	15246561.05	0.0088	0.0010	
Mercury	37031-10-22 11:17	G	15246648.84	15246648.97	15246649.10	0.0088	0.0017	

Mercury	37032-01-18 12:29 G	15246736.90	15246737.02	15246737.15	0.0088	0.0025
Mercury	37032-04-15 13:41 G	15246824.96	15246825.07	15246825.21	0.0088	0.0033
Mercury	37032-07-12 15:07 G	15246913.02	15246913.13	15246913.26	0.0088	0.0040
Mercury	37032-10-08 16:33 G	15247001.08	15247001.19	15247001.31	0.0088	0.0047
Mercury	37033-01-04 17:45 G	15247089.15	15247089.24	15247089.36	0.0088	0.0055
Mercury	37033-04-02 19:12 G	15247177.21	15247177.30	15247177.40	0.0088	0.0062
Mercury	37033-06-29 20:24 G	15247265.28	15247265.35	15247265.45	0.0088	0.0070
Mercury	37033-09-25 21:50 G	15247353.36	15247353.41	15247353.49	0.0088	0.0077
Mercury	37033-12-22 23:31 G	15247441.44	15247441.48	15247441.52	0.0088	0.0084
Mars	37034-04-08 13:55 G	15247548.06	15247548.08	15247548.12	0.0088	0.0088
Mars	37036-03-02 06:00 G	15248241.48	15248241.75	15248242.05	0.0088	0.0024
Mars	37038-01-24 23:31 G	15248935.24	15248935.48	15248935.76	0.0088	0.0042
Earth	37053-08-21 21:50 G	15254623.40	15254623.41	15254623.47	0.0088	0.0087
Moon	37054-08-24 06:14 G	15254990.61	15254990.76	15254990.93	0.0088	0.0067
Earth	37054-08-24 08:53 G	15254990.74	15254990.87	15254991.06	0.0088	0.0069 *
Earth	37055-08-26 19:55 G	15255358.14	15255358.33	15255358.56	0.0088	0.0050
Moon	37055-08-26 22:48 G	15255358.25	15255358.45	15255358.68	0.0088	0.0052 *
Moon	37056-08-28 05:31 G	15255725.50	15255725.73	15255725.98	0.0088	0.0029
Earth	37056-08-28 07:26 G	15255725.57	15255725.81	15255726.05	0.0088	0.0031 *
Moon	37057-08-30 18:14 G	15256093.00	15256093.26	15256093.53	0.0088	0.0014
Earth	37057-08-30 18:14 G	15256093.01	15256093.26	15256093.52	0.0088	0.0013 *
Earth	37058-09-02 05:02 G	15256460.46	15256460.71	15256460.98	0.0088	0.0007
Moon	37058-09-02 05:45 G	15256460.50	15256460.74	15256461.00	0.0088	0.0009 *
Moon	37059-09-04 13:55 G	15256827.83	15256828.08	15256828.35	0.0088	0.0023
Earth	37059-09-04 16:05 G	15256827.93	15256828.17	15256828.43	0.0088	0.0025 *
Earth	37060-09-06 02:38 G	15257195.41	15257195.61	15257195.86	0.0088	0.0044
Moon	37060-09-06 05:45 G	15257195.55	15257195.74	15257195.98	0.0088	0.0046 *
Moon	37061-09-08 10:05 G	15257562.75	15257562.92	15257563.13	0.0088	0.0060
Earth	37061-09-08 13:55 G	15257562.90	15257563.08	15257563.26	0.0088	0.0062 *
Earth	37062-09-11 00:00 G	15257930.43	15257930.50	15257930.63	0.0088	0.0081

Moon	37062-09-11 03:36 G	15257930.61	15257930.65	15257930.76	0.0088	0.0084 *
Venus	37088-09-03 05:45 G	15267419.67	15267419.74	15267419.86	0.0088	0.0079
Venus	37089-04-16 19:12 G	15267645.15	15267645.30	15267645.45	0.0088	0.0063
Venus	37089-11-28 07:41 G	15267870.65	15267870.82	15267871.02	0.0088	0.0048
Venus	37090-07-11 20:38 G	15268096.16	15268096.36	15268096.57	0.0088	0.0033
Venus	37091-02-22 09:21 G	15268321.69	15268321.89	15268322.12	0.0088	0.0018
Venus	37091-10-05 22:33 G	15268547.22	15268547.44	15268547.66	0.0088	0.0002
Venus	37092-05-18 11:17 G	15268772.76	15268772.97	15268773.19	0.0088	0.0013
Venus	37092-12-30 00:14 G	15268998.30	15268998.51	15268998.72	0.0088	0.0028
Venus	37093-08-12 12:43 G	15269223.86	15269224.03	15269224.24	0.0088	0.0045
Venus	37094-03-26 01:41 G	15269449.43	15269449.57	15269449.75	0.0088	0.0060
Venus	37094-11-06 14:53 G	15269675.01	15269675.12	15269675.24	0.0088	0.0075
Mercury	37112-11-12 07:26 G	15276254.76	15276254.81	15276254.88	0.0089	0.0084
Mercury	37113-02-08 11:02 G	15276342.86	15276342.96	15276343.08	0.0089	0.0073
Mercury	37113-05-07 14:53 G	15276430.98	15276431.12	15276431.26	0.0089	0.0062
Mercury	37113-08-03 18:00 G	15276519.11	15276519.25	15276519.42	0.0089	0.0052
Mercury	37113-10-30 21:36 G	15276607.25	15276607.40	15276607.59	0.0089	0.0041
Mercury	37114-01-27 01:26 G	15276695.38	15276695.56	15276695.75	0.0089	0.0030
Mercury	37114-04-25 05:02 G	15276783.52	15276783.71	15276783.90	0.0089	0.0019
Mercury	37114-07-22 08:38 G	15276871.67	15276871.86	15276872.05	0.0089	0.0008
Mercury	37114-10-18 12:14 G	15276959.81	15276960.01	15276960.20	0.0089	0.0003
Mercury	37115-01-14 15:36 G	15277047.96	15277048.15	15277048.34	0.0089	0.0013
Mercury	37115-04-12 18:57 G	15277136.11	15277136.29	15277136.48	0.0089	0.0024
Mercury	37115-07-09 22:33 G	15277224.27	15277224.44	15277224.62	0.0089	0.0034
Mercury	37115-10-06 01:55 G	15277312.42	15277312.58	15277312.75	0.0089	0.0045
Mercury	37116-01-02 05:17 G	15277400.59	15277400.72	15277400.88	0.0089	0.0056
Mercury	37116-03-30 08:53 G	15277488.75	15277488.87	15277489.00	0.0089	0.0066
Mercury	37116-06-26 12:00 G	15277576.93	15277577.00	15277577.12	0.0089	0.0077
Mercury	37116-09-22 15:36 G	15277665.13	15277665.15	15277665.20	0.0089	0.0087
Mars	37118-01-20 22:33 G	15278150.35	15278150.44	15278150.62	0.0089	0.0082

Mars	37119-12-18 03:07 G	15278846.30	15278846.63	15278846.97	0.0089	0.0004
Mars	37121-11-13 03:21 G	15279542.49	15279542.64	15279542.85	0.0089	0.0074
Earth	37137-02-22 05:45 G	15285122.61	15285122.74	15285122.88	0.0089	0.0076
Moon	37137-02-22 06:57 G	15285122.68	15285122.79	15285122.92	0.0089	0.0079 *
Earth	37138-02-24 17:45 G	15285490.06	15285490.24	15285490.46	0.0090	0.0057
Moon	37138-02-24 18:29 G	15285490.08	15285490.27	15285490.48	0.0090	0.0053 *
Moon	37139-02-27 04:48 G	15285857.47	15285857.70	15285857.95	0.0090	0.0040
Earth	37139-02-27 06:14 G	15285857.54	15285857.76	15285858.01	0.0090	0.0037 *
Earth	37140-02-29 18:43 G	15286225.03	15286225.28	15286225.54	0.0090	0.0017
Moon	37140-02-29 21:07 G	15286225.13	15286225.38	15286225.63	0.0090	0.0014 *
Moon	37141-03-03 03:50 G	15286592.40	15286592.66	15286592.92	0.0090	0.0001
Earth	37141-03-03 07:12 G	15286592.55	15286592.80	15286593.06	0.0090	0.0004 *
Earth	37142-03-05 19:41 G	15286960.07	15286960.32	15286960.57	0.0090	0.0023
Moon	37142-03-05 22:48 G	15286960.22	15286960.45	15286960.71	0.0090	0.0027 *
Moon	37143-03-08 04:19 G	15287327.46	15287327.68	15287327.91	0.0090	0.0040
Earth	37143-03-08 07:55 G	15287327.61	15287327.83	15287328.06	0.0090	0.0043 *
Earth	37144-03-09 19:55 G	15287695.17	15287695.33	15287695.54	0.0090	0.0063
Moon	37144-03-09 23:02 G	15287695.30	15287695.46	15287695.65	0.0090	0.0066 *
Moon	37145-03-12 06:43 G	15288062.68	15288062.78	15288062.90	0.0090	0.0080
Earth	37145-03-12 08:24 G	15288062.78	15288062.85	15288062.98	0.0090	0.0083 *
Venus	37170-03-10 21:07 G	15297192.29	15297192.38	15297192.50	0.0089	0.0077
Venus	37170-10-22 10:19 G	15297417.78	15297417.93	15297418.10	0.0089	0.0062
Venus	37171-06-04 23:31 G	15297643.30	15297643.48	15297643.68	0.0089	0.0046
Venus	37172-01-16 12:43 G	15297868.83	15297869.03	15297869.24	0.0089	0.0030
Venus	37172-08-29 01:41 G	15298094.37	15298094.57	15298094.80	0.0089	0.0015
Venus	37173-04-11 15:07 G	15298319.91	15298320.13	15298320.35	0.0089	0.0002
Venus	37173-11-23 04:05 G	15298545.46	15298545.67	15298545.89	0.0089	0.0018
Venus	37174-07-06 17:02 G	15298771.02	15298771.21	15298771.43	0.0089	0.0034
Venus	37175-02-17 06:29 G	15298996.60	15298996.77	15298996.96	0.0089	0.0050
Venus	37175-09-30 19:26 G	15299222.18	15299222.31	15299222.47	0.0089	0.0066



Venus	37176-05-13 08:24 G	15299447.78	15299447.85	15299447.96	0.0089	0.0081
Mercury	37193-03-04 15:36 G	15305587.13	15305587.15	15305587.20	0.0089	0.0085
Mercury	37193-05-31 17:02 G	15305675.16	15305675.21	15305675.28	0.0089	0.0077
Mercury	37193-08-27 18:29 G	15305763.19	15305763.27	15305763.35	0.0089	0.0070
Mercury	37193-11-23 19:41 G	15305851.24	15305851.32	15305851.42	0.0089	0.0063
Mercury	37194-02-19 20:53 G	15305939.28	15305939.37	15305939.48	0.0089	0.0056
Mercury	37194-05-18 22:19 G	15306027.33	15306027.43	15306027.55	0.0089	0.0048
Mercury	37194-08-14 23:45 G	15306115.37	15306115.49	15306115.61	0.0089	0.0041
Mercury	37194-11-11 00:57 G	15306203.42	15306203.54	15306203.67	0.0088	0.0034
Mercury	37195-02-07 02:09 G	15306291.47	15306291.59	15306291.73	0.0088	0.0027
Mercury	37195-05-06 03:36 G	15306379.52	15306379.65	15306379.78	0.0088	0.0019
Mercury	37195-08-02 05:02 G	15306467.58	15306467.71	15306467.84	0.0088	0.0012
Mercury	37195-10-29 06:14 G	15306555.63	15306555.76	15306555.90	0.0088	0.0005
Mercury	37196-01-25 07:41 G	15306643.68	15306643.82	15306643.95	0.0088	0.0003
Mercury	37196-04-22 08:53 G	15306731.74	15306731.87	15306732.01	0.0088	0.0010
Mercury	37196-07-19 10:19 G	15306819.80	15306819.93	15306820.06	0.0088	0.0018
Mercury	37196-10-15 11:31 G	15306907.86	15306907.98	15306908.11	0.0088	0.0025
Mercury	37197-01-11 12:57 G	15306995.92	15306996.04	15306996.16	0.0088	0.0032
Mercury	37197-04-09 14:09 G	15307083.98	15307084.09	15307084.21	0.0088	0.0040
Mercury	37197-07-06 15:21 G	15307172.04	15307172.14	15307172.26	0.0088	0.0048
Mercury	37197-10-02 16:48 G	15307260.10	15307260.20	15307260.31	0.0088	0.0055
Mercury	37197-12-29 18:00 G	15307348.17	15307348.25	15307348.36	0.0088	0.0063
Mercury	37198-03-27 19:26 G	15307436.24	15307436.31	15307436.40	0.0088	0.0070
Mercury	37198-06-23 20:38 G	15307524.31	15307524.36	15307524.44	0.0088	0.0078
Mercury	37198-09-19 22:05 G	15307612.40	15307612.42	15307612.47	0.0088	0.0085
Mars	37199-10-17 10:33 G	15308004.71	15308004.94	15308005.21	0.0088	0.0046
Mars	37201-09-10 03:21 G	15308698.37	15308698.64	15308698.94	0.0088	0.0020
Mars	37203-08-04 21:21 G	15309392.34	15309392.39	15309392.47	0.0088	0.0086
Earth	37218-08-24 14:53 G	15314891.04	15314891.12	15314891.25	0.0088	0.0080
Moon	37218-08-24 17:02 G	15314891.08	15314891.21	15314891.36	0.0088	0.0075 *

Moon	37219-08-27 01:26 G	15315258.41	15315258.56	15315258.74	0.0088	0.0065
Earth	37219-08-27 02:09 G	15315258.42	15315258.59	15315258.79	0.0088	0.0061 *
Moon	37220-08-28 12:57 G	15315625.81	15315626.04	15315626.29	0.0088	0.0038
Earth	37220-08-28 12:57 G	15315625.83	15315626.04	15315626.28	0.0088	0.0043 *
Earth	37221-08-30 23:45 G	15315993.26	15315993.49	15315993.76	0.0088	0.0024
Moon	37221-08-31 01:55 G	15315993.35	15315993.58	15315993.82	0.0088	0.0028 *
Moon	37222-09-02 08:24 G	15316360.59	15316360.85	15316361.12	0.0088	0.0001
Earth	37222-09-02 11:02 G	15316360.71	15316360.96	15316361.22	0.0088	0.0005 *
Earth	37223-09-04 21:50 G	15316728.17	15316728.41	15316728.68	0.0088	0.0015
Moon	37223-09-05 01:26 G	15316728.30	15316728.56	15316728.81	0.0088	0.0010 *
Moon	37224-09-06 05:02 G	15317095.49	15317095.71	15317095.96	0.0088	0.0038
Earth	37224-09-06 08:53 G	15317095.64	15317095.87	15317096.12	0.0088	0.0033 *
Earth	37225-09-08 19:26 G	15317463.12	15317463.31	15317463.54	0.0088	0.0052
Moon	37225-09-08 22:48 G	15317463.25	15317463.45	15317463.69	0.0088	0.0048 *
Moon	37226-09-11 03:21 G	15317830.53	15317830.64	15317830.79	0.0088	0.0075
Earth	37226-09-11 06:14 G	15317830.63	15317830.76	15317830.94	0.0088	0.0071 *
Moon	37227-09-13 18:29 G	15318198.23	15318198.27	15318198.37	0.0088	0.0085
Venus	37252-12-06 14:09 G	15327414.05	15327414.09	15327414.15	0.0088	0.0085
Venus	37253-07-20 03:07 G	15327639.51	15327639.63	15327639.77	0.0088	0.0070
Venus	37254-03-02 15:50 G	15327865.00	15327865.16	15327865.35	0.0088	0.0055
Venus	37254-10-14 04:48 G	15328090.51	15328090.70	15328090.91	0.0088	0.0040
Venus	37255-05-27 17:31 G	15328316.03	15328316.23	15328316.46	0.0088	0.0025
Venus	37256-01-08 06:43 G	15328541.56	15328541.78	15328542.00	0.0088	0.0009
Venus	37256-08-20 19:41 G	15328767.10	15328767.32	15328767.54	0.0088	0.0006
Venus	37257-04-03 08:24 G	15328992.64	15328992.85	15328993.07	0.0088	0.0021
Venus	37257-11-14 21:07 G	15329218.19	15329218.38	15329218.59	0.0088	0.0037
Venus	37258-06-28 09:36 G	15329443.74	15329443.90	15329444.10	0.0088	0.0052
Venus	37259-02-08 22:33 G	15329669.32	15329669.44	15329669.60	0.0088	0.0067
Venus	37259-09-22 11:31 G	15329894.92	15329894.98	15329895.08	0.0088	0.0083
Mercury	37277-08-09 04:05 G	15336425.62	15336425.67	15336425.74	0.0089	0.0084

Mercury	37277-11-05 07:55 G	15336513.72	15336513.83	15336513.94	0.0089	0.0073
Mercury	37278-02-01 11:02 G	15336601.85	15336601.96	15336602.12	0.0089	0.0063
Mercury	37278-04-30 14:53 G	15336689.97	15336690.12	15336690.29	0.0089	0.0052
Mercury	37278-07-27 18:29 G	15336778.11	15336778.27	15336778.45	0.0089	0.0041
Mercury	37278-10-23 22:05 G	15336866.25	15336866.42	15336866.61	0.0089	0.0030
Mercury	37279-01-20 01:55 G	15336954.39	15336954.58	15336954.77	0.0089	0.0019
Mercury	37279-04-18 05:17 G	15337042.53	15337042.72	15337042.92	0.0089	0.0009
Mercury	37279-07-15 08:53 G	15337130.68	15337130.87	15337131.06	0.0089	0.0003
Mercury	37279-10-11 12:29 G	15337218.83	15337219.02	15337219.21	0.0089	0.0013
Mercury	37280-01-07 15:50 G	15337306.98	15337307.16	15337307.35	0.0089	0.0024
Mercury	37280-04-04 19:12 G	15337395.13	15337395.30	15337395.49	0.0089	0.0035
Mercury	37280-07-01 22:48 G	15337483.29	15337483.45	15337483.62	0.0089	0.0045
Mercury	37280-09-28 02:09 G	15337571.45	15337571.59	15337571.75	0.0089	0.0056
Mercury	37280-12-25 05:45 G	15337659.62	15337659.74	15337659.87	0.0089	0.0066
Mercury	37281-03-23 09:07 G	15337747.80	15337747.88	15337747.99	0.0089	0.0077
Mercury	37281-06-19 12:43 G	15337836.00	15337836.03	15337836.07	0.0089	0.0087
Mars	37283-07-31 05:45 G	15338607.44	15338607.74	15338608.07	0.0089	0.0031
Mars	37285-06-26 08:53 G	15339303.61	15339303.87	15339304.18	0.0089	0.0047
Earth	37301-02-22 08:38 G	15345022.85	15345022.86	15345022.92	0.0089	0.0089
Moon	37301-02-22 09:50 G	15345022.87	15345022.91	15345022.98	0.0089	0.0087 *
Moon	37302-02-24 18:43 G	15345390.14	15345390.28	15345390.46	0.0089	0.0071
Earth	37302-02-24 21:21 G	15345390.24	15345390.39	15345390.57	0.0089	0.0069 *
Earth	37303-02-27 09:21 G	15345757.70	15345757.89	15345758.13	0.0090	0.0050
Moon	37303-02-27 12:43 G	15345757.83	15345758.03	15345758.26	0.0090	0.0048 *
Moon	37304-02-29 18:43 G	15346125.05	15346125.28	15346125.53	0.0090	0.0032
Earth	37304-02-29 22:05 G	15346125.19	15346125.42	15346125.68	0.0090	0.0029 *
Earth	37305-03-03 10:33 G	15346492.69	15346492.94	15346493.20	0.0090	0.0009
Moon	37305-03-03 14:24 G	15346492.84	15346493.10	15346493.36	0.0090	0.0007 *
Moon	37306-03-05 19:55 G	15346860.09	15346860.33	15346860.59	0.0090	0.0009
Earth	37306-03-05 23:02 G	15346860.20	15346860.46	15346860.71	0.0090	0.0011 *

Earth	37307-03-08 11:02 G	15347227.73	15347227.96	15347228.21	0.0090	0.0031
Moon	37307-03-08 13:55 G	15347227.84	15347228.08	15347228.33	0.0090	0.0034 *
Moon	37308-03-09 22:33 G	15347595.23	15347595.44	15347595.65	0.0090	0.0048
Earth	37308-03-09 23:31 G	15347595.28	15347595.48	15347595.70	0.0090	0.0051 *
Earth	37309-03-12 11:31 G	15347962.85	15347962.98	15347963.16	0.0090	0.0071
Moon	37309-03-12 11:45 G	15347962.85	15347962.99	15347963.15	0.0090	0.0073 *
Moon	37310-03-15 00:43 G	15348330.50	15348330.53	15348330.61	0.0090	0.0088
Venus	37334-06-13 04:48 G	15357186.64	15357186.70	15357186.77	0.0089	0.0085
Venus	37335-01-24 17:31 G	15357412.12	15357412.23	15357412.39	0.0089	0.0070
Venus	37335-09-07 06:57 G	15357637.63	15357637.79	15357637.98	0.0089	0.0054
Venus	37336-04-19 20:09 G	15357863.15	15357863.34	15357863.55	0.0089	0.0038
Venus	37336-12-01 09:07 G	15358088.68	15358088.88	15358089.11	0.0089	0.0022
Venus	37337-07-14 22:33 G	15358314.22	15358314.44	15358314.66	0.0089	0.0006
Venus	37338-02-25 11:45 G	15358539.77	15358539.99	15358540.21	0.0089	0.0010
Venus	37338-10-09 00:57 G	15358765.33	15358765.54	15358765.75	0.0089	0.0026
Venus	37339-05-22 13:41 G	15358990.89	15358991.07	15358991.28	0.0089	0.0042
Venus	37340-01-03 02:38 G	15359216.46	15359216.61	15359216.80	0.0089	0.0057
Venus	37340-08-15 15:36 G	15359442.05	15359442.15	15359442.30	0.0089	0.0073
Venus	37341-03-29 05:02 G	15359667.70	15359667.71	15359667.75	0.0089	0.0089
Mercury	37357-11-30 14:53 G	15365758.09	15365758.12	15365758.16	0.0089	0.0084
Mercury	37358-02-26 16:05 G	15365846.11	15365846.17	15365846.24	0.0089	0.0077
Mercury	37358-05-25 17:17 G	15365934.15	15365934.22	15365934.31	0.0089	0.0070
Mercury	37358-08-21 18:43 G	15366022.19	15366022.28	15366022.38	0.0089	0.0062
Mercury	37358-11-17 20:09 G	15366110.24	15366110.34	15366110.44	0.0089	0.0055
Mercury	37359-02-13 21:21 G	15366198.28	15366198.39	15366198.51	0.0089	0.0048
Mercury	37359-05-12 22:33 G	15366286.33	15366286.44	15366286.57	0.0089	0.0041
Mercury	37359-08-09 00:00 G	15366374.38	15366374.50	15366374.63	0.0089	0.0033
Mercury	37359-11-05 01:26 G	15366462.43	15366462.56	15366462.69	0.0089	0.0026
Mercury	37360-02-01 02:38 G	15366550.48	15366550.61	15366550.74	0.0088	0.0019
Mercury	37360-04-29 04:05 G	15366638.54	15366638.67	15366638.80	0.0088	0.0011

Mercury	37360-07-26 05:17 G	15366726.59	15366726.72	15366726.86	0.0088	0.0004
Mercury	37360-10-22 06:43 G	15366814.64	15366814.78	15366814.91	0.0088	0.0004
Mercury	37361-01-18 07:55 G	15366902.70	15366902.83	15366902.97	0.0088	0.0011
Mercury	37361-04-16 09:21 G	15366990.76	15366990.89	15366991.02	0.0088	0.0018
Mercury	37361-07-13 10:33 G	15367078.82	15367078.94	15367079.07	0.0088	0.0026
Mercury	37361-10-09 11:45 G	15367166.87	15367166.99	15367167.12	0.0088	0.0033
Mercury	37362-01-05 13:12 G	15367254.94	15367255.05	15367255.17	0.0088	0.0041
Mercury	37362-04-03 14:38 G	15367343.00	15367343.11	15367343.22	0.0088	0.0048
Mercury	37362-06-30 15:50 G	15367431.06	15367431.16	15367431.27	0.0088	0.0055
Mercury	37362-09-26 17:17 G	15367519.13	15367519.22	15367519.32	0.0088	0.0063
Mercury	37362-12-23 18:29 G	15367607.20	15367607.27	15367607.36	0.0088	0.0070
Mercury	37363-03-21 19:55 G	15367695.27	15367695.33	15367695.40	0.0088	0.0078
Mars	37363-06-02 16:05 G	15367768.01	15367768.17	15367768.38	0.0088	0.0068
Mercury	37363-06-17 21:07 G	15367783.36	15367783.38	15367783.43	0.0088	0.0085
Mars	37365-04-26 08:53 G	15368461.58	15368461.87	15368462.17	0.0088	0.0003
Mars	37367-03-21 02:09 G	15369155.40	15369155.59	15369155.80	0.0088	0.0064
Moon	37383-08-27 06:14 G	15375158.63	15375158.76	15375158.93	0.0088	0.0073
Earth	37383-08-27 07:26 G	15375158.70	15375158.81	15375158.99	0.0088	0.0073 *
Earth	37384-08-28 18:29 G	15375526.09	15375526.27	15375526.50	0.0088	0.0054
Moon	37384-08-28 20:24 G	15375526.18	15375526.35	15375526.57	0.0088	0.0055 *
Moon	37385-08-31 02:24 G	15375893.37	15375893.60	15375893.85	0.0088	0.0035
Earth	37385-08-31 05:45 G	15375893.51	15375893.74	15375893.99	0.0088	0.0035 *
Earth	37386-09-02 16:48 G	15376260.95	15376261.20	15376261.46	0.0088	0.0016
Moon	37386-09-02 20:24 G	15376261.10	15376261.35	15376261.61	0.0088	0.0016 *
Moon	37387-09-05 00:14 G	15376628.26	15376628.51	15376628.77	0.0088	0.0004
Earth	37387-09-05 03:50 G	15376628.40	15376628.66	15376628.92	0.0088	0.0003 *
Earth	37388-09-06 14:38 G	15376995.86	15376996.11	15376996.36	0.0088	0.0022
Moon	37388-09-06 17:45 G	15376995.99	15376996.24	15376996.50	0.0088	0.0022 *
Moon	37389-09-08 23:17 G	15377363.27	15377363.47	15377363.71	0.0088	0.0042
Earth	37389-09-09 01:41 G	15377363.34	15377363.57	15377363.80	0.0088	0.0041 *

Earth	37390-09-11 12:29 G	15377730.84	15377731.02	15377731.21	0.0088	0.0060
Moon	37390-09-11 13:26 G	15377730.89	15377731.06	15377731.28	0.0088	0.0059 *
Earth	37391-09-13 23:02 G	15378098.37	15378098.46	15378098.60	0.0088	0.0079
Moon	37391-09-13 23:31 G	15378098.40	15378098.48	15378098.60	0.0088	0.0080 *
Venus	37417-10-23 11:02 G	15387633.87	15387633.96	15387634.09	0.0088	0.0077
Venus	37418-06-05 23:45 G	15387859.36	15387859.49	15387859.67	0.0088	0.0062
Venus	37419-01-17 12:43 G	15388084.86	15388085.03	15388085.24	0.0088	0.0047
Venus	37419-08-31 01:55 G	15388310.38	15388310.58	15388310.80	0.0088	0.0032
Venus	37420-04-12 15:07 G	15388535.91	15388536.13	15388536.34	0.0088	0.0016
Venus	37420-11-24 03:50 G	15388761.44	15388761.66	15388761.88	0.0088	0.0001
Venus	37421-07-07 16:33 G	15388986.98	15388987.19	15388987.41	0.0088	0.0014
Venus	37422-02-18 05:17 G	15389212.52	15389212.72	15389212.94	0.0088	0.0030
Venus	37422-10-01 18:29 G	15389438.08	15389438.27	15389438.46	0.0088	0.0044
Venus	37423-05-15 07:12 G	15389663.64	15389663.80	15389663.97	0.0088	0.0060
Venus	37423-12-26 19:26 G	15389889.23	15389889.31	15389889.46	0.0088	0.0076
Mercury	37442-05-08 00:43 G	15396596.49	15396596.53	15396596.62	0.0089	0.0084
Mercury	37442-08-04 04:33 G	15396684.60	15396684.69	15396684.82	0.0089	0.0073
Mercury	37442-10-31 08:09 G	15396772.72	15396772.84	15396773.00	0.0089	0.0062
Mercury	37443-01-27 12:00 G	15396860.85	15396861.00	15396861.17	0.0089	0.0051
Mercury	37443-04-25 15:36 G	15396948.98	15396949.15	15396949.33	0.0089	0.0040
Mercury	37443-07-22 19:12 G	15397037.12	15397037.30	15397037.49	0.0089	0.0029
Mercury	37443-10-18 22:48 G	15397125.27	15397125.45	15397125.64	0.0089	0.0018
Mercury	37444-01-15 02:24 G	15397213.41	15397213.60	15397213.79	0.0089	0.0008
Mercury	37444-04-12 06:00 G	15397301.56	15397301.75	15397301.94	0.0089	0.0003
Mercury	37444-07-09 09:36 G	15397389.71	15397389.90	15397390.09	0.0089	0.0014
Mercury	37444-10-05 12:57 G	15397477.86	15397478.04	15397478.23	0.0089	0.0025
Mercury	37445-01-01 16:19 G	15397566.01	15397566.18	15397566.37	0.0089	0.0036
Mercury	37445-03-30 19:55 G	15397654.17	15397654.33	15397654.50	0.0089	0.0046
Mercury	37445-06-26 23:17 G	15397742.34	15397742.47	15397742.63	0.0089	0.0057
Mercury	37445-09-23 03:07 G	15397830.50	15397830.63	15397830.75	0.0089	0.0067

Mercury	37445-12-20 06:14 G	15397918.68	15397918.76	15397918.86	0.0089	0.0078
Mercury	37446-03-18 09:36 G	15398006.90	15398006.90	15398006.93	0.0089	0.0089
Mars	37447-03-15 09:50 G	15398368.67	15398368.91	15398369.18	0.0089	0.0058
Mars	37449-02-08 13:55 G	15399064.76	15399065.08	15399065.42	0.0089	0.0020
Earth	37466-02-25 00:43 G	15405290.45	15405290.53	15405290.66	0.0089	0.0082
Moon	37466-02-25 04:05 G	15405290.63	15405290.67	15405290.76	0.0089	0.0087 *
Moon	37467-02-27 10:05 G	15405657.73	15405657.92	15405658.12	0.0089	0.0057
Earth	37467-02-27 13:26 G	15405657.89	15405658.06	15405658.26	0.0089	0.0062 *
Earth	37468-03-01 01:41 G	15406025.36	15406025.57	15406025.81	0.0089	0.0042
Moon	37468-03-01 05:02 G	15406025.50	15406025.71	15406025.95	0.0089	0.0046 *
Moon	37469-03-03 11:31 G	15406392.74	15406392.98	15406393.24	0.0090	0.0018
Earth	37469-03-03 14:24 G	15406392.86	15406393.10	15406393.36	0.0090	0.0022 *
Earth	37470-03-06 02:53 G	15406760.37	15406760.62	15406760.88	0.0090	0.0002
Moon	37470-03-06 04:19 G	15406760.42	15406760.68	15406760.95	0.0090	0.0006 *
Moon	37471-03-08 14:24 G	15407127.87	15407128.10	15407128.35	0.0090	0.0023
Earth	37471-03-08 15:07 G	15407127.89	15407128.13	15407128.39	0.0090	0.0019 *
Moon	37472-03-10 02:53 G	15407495.38	15407495.62	15407495.87	0.0090	0.0035
Earth	37472-03-10 03:50 G	15407495.43	15407495.66	15407495.89	0.0090	0.0039 *
Earth	37473-03-12 16:05 G	15407862.98	15407863.17	15407863.36	0.0090	0.0059
Moon	37473-03-12 17:45 G	15407863.08	15407863.24	15407863.44	0.0090	0.0064 *
Moon	37474-03-15 01:41 G	15408230.43	15408230.57	15408230.72	0.0090	0.0075
Earth	37474-03-15 04:33 G	15408230.57	15408230.69	15408230.80	0.0090	0.0079 *
Venus	37499-04-29 01:26 G	15417406.46	15417406.56	15417406.68	0.0089	0.0077
Venus	37499-12-10 14:24 G	15417631.96	15417632.10	15417632.28	0.0089	0.0061
Venus	37500-07-24 03:36 G	15417857.48	15417857.65	15417857.85	0.0089	0.0046
Venus	37501-03-06 17:02 G	15418083.01	15418083.21	15418083.42	0.0089	0.0030
Venus	37501-10-18 06:14 G	15418308.55	15418308.76	15418308.98	0.0089	0.0014
Venus	37502-05-31 19:26 G	15418534.09	15418534.31	15418534.53	0.0089	0.0002
Venus	37503-01-12 08:24 G	15418759.64	15418759.85	15418760.07	0.0089	0.0018
Venus	37503-08-25 21:21 G	15418985.20	15418985.39	15418985.60	0.0089	0.0033

Venus	37504-04-07 10:19 G	15419210.77	15419210.93	15419211.13	0.0089	0.0050
Venus	37504-11-18 23:45 G	15419436.35	15419436.49	15419436.65	0.0089	0.0065
Venus	37505-07-02 12:43 G	15419661.95	15419662.03	15419662.14	0.0089	0.0080
Mercury	37522-08-29 13:41 G	15425929.04	15425929.07	15425929.13	0.0089	0.0084
Mercury	37522-11-25 15:07 G	15426017.07	15426017.13	15426017.20	0.0089	0.0076
Mercury	37523-02-21 16:33 G	15426105.11	15426105.19	15426105.27	0.0089	0.0069
Mercury	37523-05-20 17:45 G	15426193.15	15426193.24	15426193.34	0.0089	0.0062
Mercury	37523-08-16 18:57 G	15426281.20	15426281.29	15426281.40	0.0089	0.0055
Mercury	37523-11-12 20:24 G	15426369.24	15426369.35	15426369.47	0.0089	0.0047
Mercury	37524-02-08 21:50 G	15426457.29	15426457.41	15426457.53	0.0089	0.0040
Mercury	37524-05-06 23:02 G	15426545.34	15426545.46	15426545.59	0.0089	0.0033
Mercury	37524-08-03 00:14 G	15426633.39	15426633.51	15426633.65	0.0089	0.0026
Mercury	37524-10-30 01:41 G	15426721.44	15426721.57	15426721.70	0.0089	0.0018
Mercury	37525-01-26 03:07 G	15426809.50	15426809.63	15426809.76	0.0089	0.0011
Mercury	37525-04-24 04:19 G	15426897.55	15426897.68	15426897.82	0.0089	0.0004
Mercury	37525-07-21 05:45 G	15426985.60	15426985.74	15426985.87	0.0089	0.0004
Mercury	37525-10-17 06:57 G	15427073.66	15427073.79	15427073.92	0.0088	0.0012
Mercury	37526-01-13 08:24 G	15427161.72	15427161.85	15427161.98	0.0088	0.0019
Mercury	37526-04-11 09:36 G	15427249.78	15427249.90	15427250.03	0.0088	0.0026
Mercury	37526-07-08 11:02 G	15427337.84	15427337.96	15427338.08	0.0088	0.0034
Mercury	37526-10-04 12:14 G	15427425.90	15427426.01	15427426.13	0.0088	0.0041
Mercury	37526-12-31 13:26 G	15427513.96	15427514.06	15427514.18	0.0088	0.0049
Mercury	37527-03-29 14:53 G	15427602.02	15427602.12	15427602.23	0.0088	0.0056
Mercury	37527-06-25 16:05 G	15427690.09	15427690.17	15427690.27	0.0088	0.0064
Mercury	37527-09-21 17:31 G	15427778.16	15427778.23	15427778.32	0.0088	0.0071
Mercury	37527-12-18 18:43 G	15427866.23	15427866.28	15427866.35	0.0088	0.0079
Mercury	37528-03-15 20:09 G	15427954.32	15427954.34	15427954.38	0.0088	0.0086
Mars	37528-12-11 13:55 G	15428224.81	15428225.08	15428225.37	0.0088	0.0025
Mars	37530-11-05 06:00 G	15428918.50	15428918.75	15428919.02	0.0088	0.0041
Jupiter	37544-09-21 18:43 G	15433987.77	15433988.28	15433988.84	0.0088	0.0022



Earth	37547-08-28 13:55 G	15435059.03	15435059.08	15435059.17	0.0088	0.0084
Moon	37547-08-28 16:48 G	15435059.12	15435059.20	15435059.33	0.0088	0.0080 *
Moon	37548-08-29 22:05 G	15435426.27	15435426.42	15435426.59	0.0088	0.0069
Earth	37548-08-30 01:12 G	15435426.39	15435426.55	15435426.74	0.0088	0.0065 *
Earth	37549-09-01 12:14 G	15435793.80	15435794.01	15435794.24	0.0088	0.0046
Moon	37549-09-01 16:05 G	15435793.95	15435794.17	15435794.41	0.0088	0.0041 *
Moon	37550-09-03 20:24 G	15436161.12	15436161.35	15436161.59	0.0088	0.0031
Earth	37550-09-03 23:17 G	15436161.24	15436161.47	15436161.73	0.0088	0.0027 *
Earth	37551-09-06 10:19 G	15436528.68	15436528.93	15436529.19	0.0088	0.0008
Moon	37551-09-06 13:12 G	15436528.78	15436529.05	15436529.31	0.0088	0.0003 *
Moon	37552-09-07 19:41 G	15436896.07	15436896.32	15436896.57	0.0088	0.0007
Earth	37552-09-07 21:07 G	15436896.13	15436896.38	15436896.64	0.0088	0.0012 *
Moon	37553-09-10 07:55 G	15437263.59	15437263.83	15437264.09	0.0088	0.0035
Earth	37553-09-10 07:55 G	15437263.60	15437263.83	15437264.08	0.0088	0.0031 *
Earth	37554-09-12 18:43 G	15437631.08	15437631.28	15437631.51	0.0088	0.0050
Moon	37554-09-12 19:26 G	15437631.11	15437631.31	15437631.54	0.0088	0.0046 *
Moon	37555-09-15 03:21 G	15437998.51	15437998.64	15437998.80	0.0088	0.0073
Earth	37555-09-15 05:17 G	15437998.58	15437998.72	15437998.90	0.0088	0.0069 *
Earth	37556-09-16 16:19 G	15438366.18	15438366.18	15438366.21	0.0088	0.0088
Moon	37556-09-16 19:41 G	15438366.25	15438366.32	15438366.40	0.0088	0.0083
Venus	37582-01-25 19:55 G	15447628.28	15447628.33	15447628.41	0.0088	0.0083
Venus	37582-09-08 08:53 G	15447853.75	15447853.87	15447854.02	0.0088	0.0068
Venus	37583-04-21 21:50 G	15448079.25	15448079.41	15448079.60	0.0088	0.0053
Venus	37583-12-03 10:48 G	15448304.76	15448304.95	15448305.16	0.0088	0.0038
Venus	37584-07-15 23:31 G	15448530.28	15448530.48	15448530.71	0.0088	0.0023
Venus	37585-02-26 12:43 G	15448755.81	15448756.03	15448756.25	0.0088	0.0008
Venus	37585-10-10 01:41 G	15448981.35	15448981.57	15448981.79	0.0088	0.0007
Venus	37586-05-23 14:09 G	15449206.89	15449207.09	15449207.32	0.0088	0.0023
Venus	37587-01-04 02:53 G	15449432.44	15449432.62	15449432.84	0.0088	0.0038
Venus	37587-08-17 15:50 G	15449658.00	15449658.16	15449658.35	0.0088	0.0053

Venus	37588-03-30 04:33 G	15449883.58	15449883.69	15449883.85	0.0088	0.0069
Venus	37588-11-10 17:31 G	15450109.18	15450109.23	15450109.32	0.0088	0.0083
Mercury	37607-02-02 22:33 G	15456767.37	15456767.44	15456767.51	0.0089	0.0082
Mercury	37607-05-02 01:41 G	15456855.48	15456855.57	15456855.71	0.0089	0.0072
Mercury	37607-07-29 05:17 G	15456943.60	15456943.72	15456943.88	0.0089	0.0061
Mercury	37607-10-25 09:07 G	15457031.73	15457031.88	15457032.05	0.0089	0.0050
Mercury	37608-01-21 12:43 G	15457119.87	15457120.03	15457120.22	0.0089	0.0039
Mercury	37608-04-18 16:19 G	15457208.01	15457208.18	15457208.37	0.0089	0.0028
Mercury	37608-07-15 20:09 G	15457296.15	15457296.34	15457296.53	0.0089	0.0017
Mercury	37608-10-11 23:31 G	15457384.30	15457384.48	15457384.68	0.0089	0.0007
Mercury	37609-01-08 03:07 G	15457472.44	15457472.63	15457472.83	0.0089	0.0005
Mercury	37609-04-06 06:43 G	15457560.59	15457560.78	15457560.97	0.0089	0.0015
Mercury	37609-07-03 10:19 G	15457648.75	15457648.93	15457649.12	0.0089	0.0026
Mercury	37609-09-29 13:41 G	15457736.90	15457737.07	15457737.25	0.0089	0.0037
Mercury	37609-12-26 17:02 G	15457825.06	15457825.21	15457825.39	0.0089	0.0048
Mercury	37610-03-24 20:53 G	15457913.23	15457913.37	15457913.52	0.0089	0.0058
Mercury	37610-06-21 00:00 G	15458001.40	15458001.50	15458001.64	0.0089	0.0069
Mercury	37610-09-17 03:21 G	15458089.58	15458089.64	15458089.75	0.0089	0.0080
Mars	37610-10-27 13:26 G	15458130.01	15458130.06	15458130.18	0.0089	0.0086
Mars	37612-09-22 20:53 G	15458826.04	15458826.37	15458826.71	0.0089	0.0006
Mars	37614-08-19 23:45 G	15459522.33	15459522.49	15459522.72	0.0089	0.0073
Earth	37631-02-27 18:00 G	15465558.12	15465558.25	15465558.40	0.0089	0.0074
Moon	37631-02-27 20:53 G	15465558.23	15465558.37	15465558.53	0.0089	0.0074 *
Moon	37632-03-01 04:19 G	15465925.50	15465925.68	15465925.89	0.0089	0.0054
Earth	37632-03-01 06:14 G	15465925.57	15465925.76	15465925.98	0.0089	0.0054 *
Earth	37633-03-03 18:29 G	15466293.05	15466293.27	15466293.52	0.0090	0.0034
Moon	37633-03-03 19:41 G	15466293.09	15466293.32	15466293.58	0.0090	0.0035 *
Earth	37634-03-06 06:57 G	15466660.54	15466660.79	15466661.05	0.0090	0.0014
Moon	37634-03-06 07:26 G	15466660.58	15466660.81	15466661.07	0.0090	0.0014 *
Moon	37635-03-08 18:00 G	15467027.99	15467028.25	15467028.52	0.0090	0.0006

Earth	37635-03-08 19:41 G	15467028.06	15467028.32	15467028.57	0.0090	0.0007 *
Earth	37636-03-10 07:41 G	15467395.59	15467395.82	15467396.08	0.0090	0.0028
Moon	37636-03-10 10:05 G	15467395.70	15467395.92	15467396.17	0.0090	0.0029 *
Moon	37637-03-12 16:33 G	15467762.98	15467763.19	15467763.43	0.0090	0.0047
Earth	37637-03-12 19:55 G	15467763.13	15467763.33	15467763.57	0.0090	0.0048 *
Earth	37638-03-15 08:24 G	15468130.70	15468130.85	15468131.03	0.0090	0.0068
Moon	37638-03-15 12:00 G	15468130.85	15468131.00	15468131.17	0.0090	0.0069 *
Moon	37639-03-17 17:17 G	15468498.17	15468498.22	15468498.31	0.0090	0.0086
Earth	37639-03-17 20:53 G	15468498.34	15468498.37	15468498.44	0.0090	0.0088
Venus	37663-08-01 09:21 G	15477400.83	15477400.89	15477400.98	0.0089	0.0084
Venus	37664-03-13 22:33 G	15477626.32	15477626.44	15477626.60	0.0089	0.0069
Venus	37664-10-25 12:00 G	15477851.83	15477852.00	15477852.18	0.0089	0.0053
Venus	37665-06-08 00:43 G	15478077.35	15478077.53	15478077.75	0.0089	0.0038
Venus	37666-01-19 14:09 G	15478302.88	15478303.09	15478303.31	0.0089	0.0021
Venus	37666-09-02 03:21 G	15478528.42	15478528.64	15478528.86	0.0089	0.0006
Venus	37667-04-15 16:19 G	15478753.97	15478754.18	15478754.41	0.0089	0.0011
Venus	37667-11-27 05:31 G	15478979.52	15478979.73	15478979.94	0.0089	0.0026
Venus	37668-07-09 18:29 G	15479205.08	15479205.27	15479205.47	0.0089	0.0041
Venus	37669-02-20 07:26 G	15479430.66	15479430.81	15479431.00	0.0089	0.0057
Venus	37669-10-03 20:38 G	15479656.25	15479656.36	15479656.50	0.0089	0.0073
Venus	37670-05-17 09:21 G	15479881.88	15479881.89	15479881.95	0.0089	0.0089
Mercury	37687-05-26 12:57 G	15486100.01	15486100.04	15486100.10	0.0089	0.0083
Mercury	37687-08-22 14:09 G	15486188.04	15486188.09	15486188.17	0.0089	0.0076
Mercury	37687-11-18 15:50 G	15486276.07	15486276.16	15486276.24	0.0089	0.0068
Mercury	37688-02-14 17:02 G	15486364.12	15486364.21	15486364.31	0.0089	0.0061
Mercury	37688-05-12 18:14 G	15486452.16	15486452.26	15486452.37	0.0089	0.0054
Mercury	37688-08-08 19:26 G	15486540.21	15486540.31	15486540.43	0.0089	0.0047
Mercury	37688-11-04 20:53 G	15486628.26	15486628.37	15486628.49	0.0089	0.0039
Mercury	37689-01-31 22:05 G	15486716.31	15486716.42	15486716.55	0.0089	0.0032
Mercury	37689-04-29 23:31 G	15486804.36	15486804.48	15486804.61	0.0089	0.0024

Mercury	37689-07-27 00:57 G	15486892.41	15486892.54	15486892.67	0.0089	0.0017
Mercury	37689-10-23 02:09 G	15486980.46	15486980.59	15486980.73	0.0089	0.0010
Mercury	37690-01-19 03:36 G	15487068.52	15487068.65	15487068.78	0.0089	0.0002
Mercury	37690-04-17 04:48 G	15487156.57	15487156.70	15487156.84	0.0089	0.0006
Mercury	37690-07-14 06:14 G	15487244.63	15487244.76	15487244.89	0.0089	0.0013
Mercury	37690-10-10 07:26 G	15487332.68	15487332.81	15487332.94	0.0089	0.0020
Mercury	37691-01-06 08:53 G	15487420.74	15487420.87	15487421.00	0.0088	0.0027
Mercury	37691-04-04 10:05 G	15487508.80	15487508.92	15487509.05	0.0088	0.0035
Mercury	37691-07-01 11:17 G	15487596.86	15487596.97	15487597.10	0.0088	0.0043
Mercury	37691-09-27 12:43 G	15487684.93	15487685.03	15487685.15	0.0088	0.0050
Mercury	37691-12-24 13:55 G	15487772.99	15487773.08	15487773.19	0.0088	0.0058
Mercury	37692-03-21 15:21 G	15487861.06	15487861.14	15487861.24	0.0088	0.0065
Mercury	37692-06-17 16:48 G	15487949.13	15487949.20	15487949.28	0.0088	0.0072
Mars	37692-07-26 22:19 G	15487988.21	15487988.43	15487988.71	0.0088	0.0047
Mercury	37692-09-13 18:00 G	15488037.20	15488037.25	15488037.32	0.0088	0.0079
Mercury	37692-12-10 19:26 G	15488125.29	15488125.31	15488125.34	0.0088	0.0087
Mars	37694-06-20 13:55 G	15488681.80	15488682.08	15488682.37	0.0088	0.0020
Mars	37696-05-14 05:45 G	15489375.68	15489375.74	15489375.81	0.0088	0.0086
Earth	37712-08-30 07:41 G	15495326.70	15495326.82	15495326.95	0.0088	0.0076
Moon	37712-08-30 10:33 G	15495326.85	15495326.94	15495327.09	0.0088	0.0078 *
Moon	37713-09-01 15:50 G	15495693.97	15495694.16	15495694.36	0.0088	0.0056
Earth	37713-09-01 18:57 G	15495694.10	15495694.29	15495694.49	0.0088	0.0057 *
Earth	37714-09-04 05:45 G	15496061.52	15496061.74	15496061.99	0.0088	0.0038
Moon	37714-09-04 07:55 G	15496061.60	15496061.83	15496062.08	0.0088	0.0039 *
Moon	37715-09-06 16:05 G	15496428.94	15496429.17	15496429.42	0.0088	0.0018
Earth	37715-09-06 16:48 G	15496428.96	15496429.20	15496429.47	0.0088	0.0019 *
Moon	37716-09-08 03:50 G	15496796.40	15496796.66	15496796.93	0.0088	0.0002
Earth	37716-09-08 04:05 G	15496796.41	15496796.67	15496796.93	0.0088	0.0001 *
Earth	37717-09-10 15:07 G	15497163.88	15497164.13	15497164.38	0.0088	0.0020
Moon	37717-09-10 16:48 G	15497163.97	15497164.20	15497164.45	0.0088	0.0022 *

Moon	37718-09-12 23:02 G	15497531.23	15497531.46	15497531.71	0.0088	0.0038
Earth	37718-09-13 01:26 G	15497531.35	15497531.56	15497531.82	0.0088	0.0040 *
Earth	37719-09-15 12:14 G	15497898.84	15497899.01	15497899.23	0.0088	0.0059
Moon	37719-09-15 15:50 G	15497898.99	15497899.16	15497899.36	0.0088	0.0059 *
Moon	37720-09-16 19:55 G	15498266.21	15498266.33	15498266.47	0.0088	0.0076
Earth	37720-09-16 23:17 G	15498266.38	15498266.47	15498266.61	0.0088	0.0078 *
Venus	37746-12-11 18:00 G	15507848.14	15507848.25	15507848.38	0.0088	0.0074
Venus	37747-07-25 06:43 G	15508073.63	15508073.78	15508073.96	0.0088	0.0059
Venus	37748-03-06 19:41 G	15508299.14	15508299.32	15508299.52	0.0088	0.0044
Venus	37748-10-18 08:38 G	15508524.66	15508524.86	15508525.08	0.0088	0.0029
Venus	37749-05-31 21:36 G	15508750.19	15508750.40	15508750.63	0.0088	0.0014
Venus	37750-01-12 10:33 G	15508975.72	15508975.94	15508976.16	0.0088	0.0002
Venus	37750-08-25 23:31 G	15509201.27	15509201.48	15509201.70	0.0088	0.0016
Venus	37751-04-08 12:29 G	15509426.82	15509427.02	15509427.23	0.0088	0.0031
Venus	37751-11-20 01:12 G	15509652.37	15509652.55	15509652.75	0.0088	0.0046
Venus	37752-07-02 14:09 G	15509877.94	15509878.09	15509878.25	0.0088	0.0061
Venus	37753-02-13 02:53 G	15510103.52	15510103.62	15510103.74	0.0088	0.0076
Mercury	37771-10-31 20:09 G	15516938.26	15516938.34	15516938.42	0.0089	0.0080
Mercury	37772-01-27 23:45 G	15517026.37	15517026.49	15517026.61	0.0089	0.0069
Mercury	37772-04-25 02:53 G	15517114.50	15517114.62	15517114.79	0.0089	0.0059
Mercury	37772-07-22 06:43 G	15517202.63	15517202.78	15517202.95	0.0089	0.0048
Mercury	37772-10-18 10:19 G	15517290.76	15517290.93	15517291.12	0.0089	0.0037
Mercury	37773-01-14 13:55 G	15517378.90	15517379.08	15517379.27	0.0089	0.0026
Mercury	37773-04-12 17:45 G	15517467.05	15517467.24	15517467.43	0.0089	0.0015
Mercury	37773-07-09 21:07 G	15517555.19	15517555.38	15517555.58	0.0089	0.0005
Mercury	37773-10-06 00:43 G	15517643.34	15517643.53	15517643.73	0.0089	0.0007
Mercury	37774-01-02 04:05 G	15517731.49	15517731.67	15517731.87	0.0089	0.0018
Mercury	37774-03-31 07:55 G	15517819.65	15517819.83	15517820.01	0.0089	0.0028
Mercury	37774-06-27 11:17 G	15517907.80	15517907.97	15517908.15	0.0089	0.0039
Mercury	37774-09-23 14:38 G	15517995.97	15517996.11	15517996.28	0.0089	0.0050

Mercury	37774-12-20 18:29 G	15518084.13	15518084.27	15518084.41	0.0089	0.0060
Mercury	37775-03-18 21:36 G	15518172.30	15518172.40	15518172.53	0.0089	0.0071
Mercury	37775-06-15 00:57 G	15518260.49	15518260.54	15518260.64	0.0089	0.0082
Mars	37776-05-07 02:09 G	15518587.29	15518587.59	15518587.93	0.0089	0.0033
Mars	37778-04-03 08:24 G	15519283.58	15519283.85	15519284.15	0.0089	0.0047
Earth	37795-02-28 00:14 G	15525458.45	15525458.51	15525458.59	0.0089	0.0086
Moon	37796-03-01 12:00 G	15525825.83	15525826.00	15525826.21	0.0089	0.0062
Earth	37796-03-01 12:14 G	15525825.85	15525826.01	15525826.20	0.0089	0.0066 *
Earth	37797-03-04 00:14 G	15526193.31	15526193.51	15526193.75	0.0089	0.0046
Moon	37797-03-04 01:26 G	15526193.36	15526193.56	15526193.77	0.0089	0.0050 *
Moon	37798-03-06 10:19 G	15526560.68	15526560.93	15526561.20	0.0090	0.0021
Earth	37798-03-06 12:43 G	15526560.80	15526561.03	15526561.29	0.0090	0.0025 *
Earth	37799-03-09 01:12 G	15526928.30	15526928.55	15526928.81	0.0090	0.0005
Moon	37799-03-09 04:19 G	15526928.43	15526928.68	15526928.93	0.0090	0.0009 *
Moon	37800-03-11 10:05 G	15527295.68	15527295.92	15527296.18	0.0090	0.0020
Earth	37800-03-11 13:26 G	15527295.82	15527296.06	15527296.32	0.0090	0.0016 *
Earth	37801-03-14 01:41 G	15527663.35	15527663.57	15527663.82	0.0090	0.0037
Moon	37801-03-14 05:17 G	15527663.50	15527663.72	15527663.98	0.0090	0.0032 *
Moon	37802-03-16 11:31 G	15528030.80	15528030.98	15528031.17	0.0090	0.0061
Earth	37802-03-16 14:09 G	15528030.91	15528031.09	15528031.31	0.0090	0.0057 *
Earth	37803-03-19 02:38 G	15528398.49	15528398.61	15528398.75	0.0090	0.0077
Moon	37803-03-19 05:02 G	15528398.58	15528398.71	15528398.89	0.0090	0.0073 *
Venus	37828-06-17 07:26 G	15537620.70	15537620.81	15537620.94	0.0089	0.0075
Venus	37829-01-28 20:24 G	15537846.21	15537846.35	15537846.53	0.0089	0.0060
Venus	37829-09-11 09:50 G	15538071.73	15538071.91	15538072.11	0.0089	0.0044
Venus	37830-04-24 22:48 G	15538297.26	15538297.45	15538297.67	0.0089	0.0029
Venus	37830-12-06 12:14 G	15538522.79	15538523.01	15538523.23	0.0089	0.0012
Venus	37831-07-20 01:12 G	15538748.34	15538748.55	15538748.77	0.0089	0.0004
Venus	37832-03-01 14:24 G	15538973.89	15538974.10	15538974.32	0.0089	0.0019
Venus	37832-10-13 03:21 G	15539199.45	15539199.64	15539199.85	0.0089	0.0034

Venus	37833-05-26 16:33 G	15539425.01	15539425.19	15539425.38	0.0089	0.0050
Venus	37834-01-07 05:17 G	15539650.59	15539650.72	15539650.89	0.0089	0.0065
Venus	37834-08-20 18:29 G	15539876.19	15539876.27	15539876.37	0.0089	0.0081
Mercury	37852-02-22 12:14 G	15546270.97	15546271.01	15546271.07	0.0089	0.0082
Mercury	37852-05-20 13:26 G	15546359.00	15546359.06	15546359.14	0.0089	0.0075
Mercury	37852-08-16 14:53 G	15546447.04	15546447.12	15546447.21	0.0089	0.0067
Mercury	37852-11-12 16:05 G	15546535.08	15546535.17	15546535.28	0.0089	0.0060
Mercury	37853-02-08 17:17 G	15546623.13	15546623.22	15546623.34	0.0089	0.0053
Mercury	37853-05-07 18:57 G	15546711.17	15546711.29	15546711.40	0.0089	0.0045
Mercury	37853-08-03 20:09 G	15546799.22	15546799.34	15546799.46	0.0089	0.0038
Mercury	37853-10-30 21:21 G	15546887.27	15546887.39	15546887.52	0.0089	0.0031
Mercury	37854-01-26 22:48 G	15546975.32	15546975.45	15546975.58	0.0089	0.0023
Mercury	37854-04-25 00:14 G	15547063.38	15547063.51	15547063.64	0.0089	0.0016
Mercury	37854-07-22 01:26 G	15547151.43	15547151.56	15547151.69	0.0089	0.0008
Mercury	37854-10-18 02:53 G	15547239.48	15547239.62	15547239.75	0.0089	0.0002
Mercury	37855-01-14 04:05 G	15547327.54	15547327.67	15547327.80	0.0089	0.0007
Mercury	37855-04-12 05:17 G	15547415.59	15547415.72	15547415.86	0.0089	0.0015
Mercury	37855-07-09 06:43 G	15547503.65	15547503.78	15547503.91	0.0089	0.0021
Mercury	37855-10-05 08:09 G	15547591.71	15547591.84	15547591.96	0.0088	0.0029
Mercury	37856-01-01 09:21 G	15547679.77	15547679.89	15547680.01	0.0088	0.0036
Mars	37856-03-13 06:57 G	15547751.62	15547751.79	15547751.99	0.0088	0.0068
Mercury	37856-03-29 10:33 G	15547767.83	15547767.94	15547768.06	0.0088	0.0044
Mercury	37856-06-25 12:00 G	15547855.89	15547856.00	15547856.11	0.0088	0.0051
Mercury	37856-09-21 13:12 G	15547943.96	15547944.05	15547944.16	0.0088	0.0059
Mercury	37856-12-18 14:38 G	15548032.03	15548032.11	15548032.20	0.0088	0.0066
Mercury	37857-03-16 15:50 G	15548120.10	15548120.16	15548120.24	0.0088	0.0074
Mercury	37857-06-12 17:17 G	15548208.17	15548208.22	15548208.28	0.0088	0.0081
Mercury	37857-09-08 18:29 G	15548296.27	15548296.27	15548296.29	0.0088	0.0088
Mars	37858-02-04 22:19 G	15548445.15	15548445.43	15548445.73	0.0088	0.0003
Mars	37859-12-30 13:26 G	15549138.89	15549139.06	15549139.29	0.0088	0.0065

Moon	37876-08-30 12:29 G	15555226.96	15555227.02	15555227.10	0.0088	0.0084
Earth	37876-08-30 14:24 G	15555227.10	15555227.10	15555227.14	0.0088	0.0088 *
Earth	37877-09-02 01:55 G	15555594.43	15555594.58	15555594.75	0.0088	0.0068
Moon	37877-09-02 03:36 G	15555594.51	15555594.65	15555594.81	0.0088	0.0072 *
Earth	37878-09-04 12:57 G	15555961.84	15555962.04	15555962.27	0.0088	0.0049
Moon	37878-09-04 12:57 G	15555961.84	15555962.04	15555962.27	0.0088	0.0045 *
Moon	37879-09-06 22:48 G	15556329.21	15556329.45	15556329.71	0.0088	0.0033
Earth	37879-09-07 00:00 G	15556329.28	15556329.50	15556329.76	0.0088	0.0030 *
Earth	37880-09-08 11:31 G	15556696.72	15556696.98	15556697.24	0.0088	0.0010
Moon	37880-09-08 13:26 G	15556696.81	15556697.06	15556697.32	0.0088	0.0006 *
Moon	37881-09-10 18:57 G	15557064.04	15557064.29	15557064.56	0.0088	0.0006
Earth	37881-09-10 22:19 G	15557064.18	15557064.43	15557064.70	0.0088	0.0010 *
Earth	37882-09-13 09:07 G	15557431.65	15557431.88	15557432.14	0.0088	0.0029
Moon	37882-09-13 12:43 G	15557431.80	15557432.03	15557432.28	0.0088	0.0033 *
Moon	37883-09-15 16:33 G	15557798.98	15557799.19	15557799.42	0.0088	0.0044
Earth	37883-09-15 19:55 G	15557799.13	15557799.33	15557799.57	0.0088	0.0049 *
Earth	37884-09-17 06:43 G	15558166.64	15558166.78	15558166.96	0.0088	0.0068
Moon	37884-09-17 10:05 G	15558166.78	15558166.92	15558167.08	0.0088	0.0072 *
Moon	37885-09-19 15:50 G	15558534.10	15558534.16	15558534.25	0.0088	0.0083
Earth	37885-09-19 17:31 G	15558534.22	15558534.23	15558534.29	0.0088	0.0087 *
Venus	37911-03-17 03:36 G	15567842.58	15567842.65	15567842.76	0.0088	0.0080
Venus	37911-10-28 16:19 G	15568068.06	15568068.18	15568068.35	0.0088	0.0065
Venus	37912-06-10 05:17 G	15568293.55	15568293.72	15568293.92	0.0088	0.0050
Venus	37913-01-21 18:14 G	15568519.07	15568519.26	15568519.47	0.0088	0.0035
Venus	37913-09-04 07:12 G	15568744.60	15568744.80	15568745.03	0.0088	0.0020
Venus	37914-04-17 20:24 G	15568970.13	15568970.35	15568970.57	0.0088	0.0005
Venus	37914-11-29 09:07 G	15569195.66	15569195.88	15569196.10	0.0088	0.0010
Venus	37915-07-12 21:50 G	15569421.21	15569421.41	15569421.63	0.0088	0.0025
Venus	37916-02-23 10:48 G	15569646.76	15569646.95	15569647.15	0.0088	0.0040
Venus	37916-10-05 23:45 G	15569872.33	15569872.49	15569872.67	0.0088	0.0055



Venus	37917-05-19 12:29 G	15570097.90	15570098.02	15570098.17	0.0088	0.0070
Venus	37917-12-31 01:12 G	15570323.52	15570323.55	15570323.63	0.0088	0.0085
Mercury	37936-05-02 14:24 G	15577021.08	15577021.10	15577021.13	0.0089	0.0088
Mercury	37936-07-29 18:00 G	15577109.16	15577109.25	15577109.35	0.0089	0.0077
Mercury	37936-10-25 21:50 G	15577197.28	15577197.41	15577197.53	0.0089	0.0066
Mercury	37937-01-22 00:57 G	15577285.41	15577285.54	15577285.71	0.0089	0.0056
Mercury	37937-04-20 04:33 G	15577373.54	15577373.69	15577373.87	0.0089	0.0045
Mercury	37937-07-17 08:24 G	15577461.68	15577461.85	15577462.04	0.0089	0.0034
Mercury	37937-10-13 12:00 G	15577549.82	15577550.00	15577550.19	0.0089	0.0023
Mercury	37938-01-09 15:36 G	15577637.96	15577638.15	15577638.35	0.0089	0.0012
Mercury	37938-04-07 19:12 G	15577726.11	15577726.30	15577726.50	0.0089	0.0002
Mercury	37938-07-04 22:48 G	15577814.26	15577814.45	15577814.64	0.0089	0.0010
Mercury	37938-10-01 02:09 G	15577902.41	15577902.59	15577902.79	0.0089	0.0021
Mercury	37938-12-28 06:00 G	15577990.57	15577990.75	15577990.93	0.0089	0.0031
Mercury	37939-03-26 09:21 G	15578078.72	15578078.89	15578079.06	0.0089	0.0042
Mercury	37939-06-22 12:43 G	15578166.89	15578167.03	15578167.20	0.0089	0.0053
Mercury	37939-09-18 16:05 G	15578255.05	15578255.17	15578255.32	0.0089	0.0064
Mercury	37939-12-15 19:41 G	15578343.23	15578343.32	15578343.44	0.0089	0.0074
Mars	37939-12-21 09:36 G	15578348.68	15578348.90	15578349.19	0.0089	0.0059
Mercury	37940-03-12 23:02 G	15578431.43	15578431.46	15578431.54	0.0089	0.0085
Mars	37941-11-16 17:17 G	15579044.91	15579045.22	15579045.57	0.0089	0.0022
Earth	37960-03-02 18:43 G	15585726.18	15585726.28	15585726.43	0.0089	0.0078
Moon	37960-03-02 21:07 G	15585726.26	15585726.38	15585726.53	0.0089	0.0076 *
Moon	37961-03-05 04:19 G	15586093.50	15586093.68	15586093.90	0.0089	0.0059
Earth	37961-03-05 06:57 G	15586093.62	15586093.79	15586094.01	0.0089	0.0058 *
Earth	37962-03-07 19:26 G	15586461.08	15586461.31	15586461.55	0.0089	0.0037
Moon	37962-03-07 23:02 G	15586461.23	15586461.46	15586461.69	0.0089	0.0036 *
Moon	37963-03-10 04:19 G	15586828.43	15586828.68	15586828.93	0.0089	0.0018
Earth	37963-03-10 07:41 G	15586828.57	15586828.82	15586829.08	0.0089	0.0016 *
Earth	37964-03-11 19:55 G	15587196.08	15587196.33	15587196.59	0.0090	0.0005

Moon	37964-03-11 23:17 G	15587196.22	15587196.47	15587196.73	0.0090	0.0005	*
Moon	37965-03-14 05:17 G	15587563.49	15587563.72	15587563.97	0.0090	0.0025	
Earth	37965-03-14 08:24 G	15587563.60	15587563.85	15587564.10	0.0090	0.0025	*
Earth	37966-03-16 20:24 G	15587931.15	15587931.35	15587931.59	0.0090	0.0046	
Moon	37966-03-16 21:50 G	15587931.21	15587931.41	15587931.66	0.0090	0.0047	*
Moon	37967-03-19 07:55 G	15588298.69	15588298.83	15588299.03	0.0090	0.0067	
Earth	37967-03-19 09:21 G	15588298.72	15588298.89	15588299.07	0.0090	0.0066	*
Moon	37968-03-20 20:24 G	15588666.32	15588666.35	15588666.45	0.0090	0.0087	
Earth	37968-03-20 21:07 G	15588666.34	15588666.38	15588666.47	0.0090	0.0087	*
Venus	37992-09-19 16:05 G	15597615.10	15597615.17	15597615.28	0.0089	0.0082	
Venus	37993-05-03 05:31 G	15597840.59	15597840.73	15597840.89	0.0089	0.0066	
Venus	37993-12-14 18:29 G	15598066.11	15598066.27	15598066.47	0.0089	0.0051	
Venus	37994-07-28 07:55 G	15598291.64	15598291.83	15598292.04	0.0089	0.0035	
Venus	37995-03-10 21:07 G	15598517.18	15598517.38	15598517.61	0.0089	0.0020	
Venus	37995-10-22 10:33 G	15598742.72	15598742.94	15598743.16	0.0089	0.0004	
Venus	37996-06-03 23:31 G	15598968.27	15598968.48	15598968.70	0.0089	0.0012	
Venus	37997-01-15 12:29 G	15599193.82	15599194.02	15599194.24	0.0089	0.0028	
Venus	37997-08-29 01:26 G	15599419.38	15599419.56	15599419.77	0.0089	0.0043	
Venus	37998-04-11 14:38 G	15599644.96	15599645.11	15599645.29	0.0089	0.0059	
Venus	37998-11-23 03:50 G	15599870.55	15599870.66	15599870.79	0.0089	0.0074	
Venus	37999-07-06 16:48 G	15600096.20	15600096.20	15600096.23	0.0089	0.0089	

## 39TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 39th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT							
	TIME							
Mercury	38016-08-23 10:05 G		15606353.92	15606353.92	15606353.96	0.0089	0.0088	
Mercury	38016-11-19 11:45 G		15606441.94	15606441.99	15606442.05	0.0089	0.0080	
Mercury	38017-02-15 12:57 G		15606529.97	15606530.04	15606530.12	0.0089	0.0073	
Mercury	38017-05-14 14:09 G		15606618.01	15606618.09	15606618.19	0.0089	0.0066	
Mercury	38017-08-10 15:36 G		15606706.05	15606706.15	15606706.25	0.0089	0.0058	
Mercury	38017-11-06 16:48 G		15606794.10	15606794.20	15606794.32	0.0089	0.0051	
Mercury	38018-02-02 18:14 G		15606882.15	15606882.26	15606882.38	0.0089	0.0043	
Mercury	38018-05-01 19:41 G		15606970.20	15606970.32	15606970.44	0.0089	0.0036	
Mercury	38018-07-28 20:53 G		15607058.25	15607058.37	15607058.50	0.0089	0.0029	
Mercury	38018-10-24 22:05 G		15607146.30	15607146.42	15607146.56	0.0089	0.0022	
Mercury	38019-01-20 23:31 G		15607234.35	15607234.48	15607234.61	0.0089	0.0014	
Mercury	38019-04-19 00:57 G		15607322.40	15607322.54	15607322.67	0.0089	0.0007	
Mercury	38019-07-16 02:09 G		15607410.46	15607410.59	15607410.72	0.0089	0.0001	
Mercury	38019-10-12 03:36 G		15607498.51	15607498.65	15607498.78	0.0089	0.0009	
Mercury	38020-01-08 04:48 G		15607586.57	15607586.70	15607586.83	0.0089	0.0016	
Mercury	38020-04-05 06:00 G		15607674.63	15607674.75	15607674.89	0.0089	0.0024	
Mercury	38020-07-02 07:26 G		15607762.69	15607762.81	15607762.94	0.0089	0.0031	
Mercury	38020-09-28 08:38 G		15607850.75	15607850.86	15607850.99	0.0089	0.0038	
Mercury	38020-12-25 10:05 G		15607938.81	15607938.92	15607939.04	0.0089	0.0045	
Mercury	38021-03-23 11:31 G		15608026.87	15608026.98	15608027.08	0.0088	0.0053	
Mercury	38021-06-19 12:29 G		15608114.94	15608115.02	15608115.13	0.0088	0.0061	
Mercury	38021-09-15 13:55 G		15608203.00	15608203.08	15608203.17	0.0088	0.0068	
Mars	38021-09-21 07:26 G		15608208.55	15608208.81	15608209.11	0.0088	0.0024	
Mercury	38021-12-12 15:07 G		15608291.08	15608291.13	15608291.21	0.0088	0.0076	
Mercury	38022-03-10 16:33 G		15608379.16	15608379.19	15608379.25	0.0088	0.0083	
Mars	38023-08-15 22:48 G		15608902.21	15608902.45	15608902.72	0.0088	0.0044	
Earth	38041-09-02 09:36 G		15615494.79	15615494.90	15615495.01	0.0088	0.0079	

Moon	38041-09-02 09:50 G	15615494.83	15615494.91	15615495.01	0.0088	0.0082	*
Moon	38042-09-04 18:29 G	15615862.09	15615862.27	15615862.50	0.0088	0.0057	
Earth	38042-09-04 20:38 G	15615862.19	15615862.36	15615862.56	0.0088	0.0060	*
Earth	38043-09-07 08:09 G	15616229.61	15616229.84	15616230.07	0.0088	0.0040	
Moon	38043-09-07 10:48 G	15616229.75	15616229.95	15616230.19	0.0088	0.0044	*
Moon	38044-09-08 16:05 G	15616596.92	15616597.17	15616597.44	0.0088	0.0018	
Earth	38044-09-08 19:26 G	15616597.06	15616597.31	15616597.57	0.0088	0.0021	*
Earth	38045-09-11 06:43 G	15616964.52	15616964.78	15616965.04	0.0088	0.0001	
Moon	38045-09-11 10:19 G	15616964.68	15616964.93	15616965.20	0.0088	0.0004	*
Moon	38046-09-13 14:24 G	15617331.86	15617332.10	15617332.36	0.0088	0.0022	
Earth	38046-09-13 17:31 G	15617331.99	15617332.23	15617332.49	0.0088	0.0019	*
Earth	38047-09-16 04:48 G	15617699.47	15617699.70	15617699.93	0.0088	0.0038	
Moon	38047-09-16 07:12 G	15617699.58	15617699.80	15617700.06	0.0088	0.0037	*
Moon	38048-09-17 13:55 G	15618066.91	15618067.08	15618067.27	0.0088	0.0060	
Earth	38048-09-17 15:21 G	15618066.97	15618067.14	15618067.35	0.0088	0.0058	*
Moon	38049-09-20 01:55 G	15618434.47	15618434.58	15618434.75	0.0088	0.0075	
Earth	38049-09-20 02:24 G	15618434.49	15618434.60	15618434.73	0.0088	0.0077	*
Venus	38075-06-18 13:41 G	15627837.04	15627837.07	15627837.15	0.0088	0.0085	
Venus	38076-01-30 02:38 G	15628062.49	15628062.61	15628062.76	0.0088	0.0070	
Venus	38076-09-11 15:36 G	15628287.99	15628288.15	15628288.34	0.0088	0.0055	
Venus	38077-04-25 04:48 G	15628513.50	15628513.70	15628513.90	0.0088	0.0040	
Venus	38077-12-06 17:31 G	15628739.02	15628739.23	15628739.44	0.0088	0.0025	
Venus	38078-07-20 06:14 G	15628964.55	15628964.76	15628964.99	0.0088	0.0011	
Venus	38079-03-02 19:12 G	15629190.08	15629190.30	15629190.53	0.0088	0.0005	
Venus	38079-10-14 07:55 G	15629415.63	15629415.83	15629416.06	0.0088	0.0020	
Venus	38080-05-26 21:07 G	15629641.18	15629641.38	15629641.58	0.0088	0.0034	
Venus	38081-01-07 09:50 G	15629866.74	15629866.91	15629867.10	0.0088	0.0049	
Venus	38081-08-20 22:48 G	15630092.31	15630092.45	15630092.61	0.0088	0.0064	
Venus	38082-04-03 11:31 G	15630317.91	15630317.98	15630318.09	0.0088	0.0080	
Mercury	38101-01-28 12:14 G	15637191.97	15637192.01	15637192.09	0.0089	0.0085	

Mercury	38101-04-26 15:50 G	15637280.07	15637280.16	15637280.29	0.0089	0.0074
Mercury	38101-07-23 19:41 G	15637368.19	15637368.32	15637368.47	0.0089	0.0063
Mercury	38101-10-19 23:17 G	15637456.32	15637456.47	15637456.64	0.0089	0.0052
Mercury	38102-01-16 02:53 G	15637544.46	15637544.62	15637544.80	0.0089	0.0041
Mercury	38102-04-14 06:43 G	15637632.60	15637632.78	15637632.96	0.0089	0.0030
Mercury	38102-07-11 10:19 G	15637720.74	15637720.93	15637721.12	0.0089	0.0019
Mercury	38102-10-07 13:41 G	15637808.88	15637809.07	15637809.27	0.0089	0.0009
Mercury	38103-01-03 17:31 G	15637897.03	15637897.23	15637897.42	0.0089	0.0003
Mercury	38103-04-01 20:53 G	15637985.18	15637985.37	15637985.56	0.0089	0.0013
Mercury	38103-06-29 00:29 G	15638073.34	15638073.52	15638073.71	0.0089	0.0024
Mars	38103-08-04 17:31 G	15638110.16	15638110.23	15638110.36	0.0089	0.0085
Mercury	38103-09-25 03:50 G	15638161.49	15638161.66	15638161.85	0.0089	0.0035
Mercury	38103-12-22 07:12 G	15638249.65	15638249.80	15638249.98	0.0089	0.0046
Mercury	38104-03-19 11:02 G	15638337.82	15638337.96	15638338.11	0.0089	0.0056
Mercury	38104-06-15 14:24 G	15638425.99	15638426.10	15638426.24	0.0089	0.0067
Mercury	38104-09-11 17:45 G	15638514.17	15638514.24	15638514.35	0.0089	0.0078
Mercury	38104-12-08 21:36 G	15638602.39	15638602.40	15638602.42	0.0089	0.0088
Mars	38105-07-01 02:53 G	15638806.28	15638806.62	15638806.97	0.0089	0.0004
Mars	38107-05-28 09:07 G	15639502.74	15639502.88	15639503.08	0.0089	0.0077
Earth	38124-03-03 03:21 G	15645626.63	15645626.64	15645626.69	0.0089	0.0089
Earth	38125-03-05 15:21 G	15645993.99	15645994.14	15645994.32	0.0089	0.0069
Moon	38125-03-05 18:43 G	15645994.12	15645994.28	15645994.48	0.0089	0.0065 *
Moon	38126-03-07 23:45 G	15646361.31	15646361.49	15646361.72	0.0089	0.0053
Earth	38126-03-08 03:50 G	15646361.45	15646361.66	15646361.88	0.0089	0.0048 *
Earth	38127-03-10 15:36 G	15646728.92	15646729.15	15646729.41	0.0090	0.0028
Moon	38127-03-10 18:29 G	15646729.03	15646729.27	15646729.54	0.0090	0.0024 *
Moon	38128-03-12 01:55 G	15647096.34	15647096.58	15647096.83	0.0090	0.0011
Earth	38128-03-12 04:05 G	15647096.41	15647096.67	15647096.92	0.0090	0.0007 *
Earth	38129-03-14 15:50 G	15647463.92	15647464.16	15647464.43	0.0090	0.0015
Moon	38129-03-14 17:17 G	15647463.97	15647464.22	15647464.49	0.0090	0.0019 *

Earth	38130-03-17 04:19 G	15647831.45	15647831.68	15647831.92	0.0090	0.0035
Moon	38130-03-17 04:48 G	15647831.47	15647831.70	15647831.94	0.0090	0.0031 *
Moon	38131-03-19 14:38 G	15648198.94	15648199.11	15648199.33	0.0090	0.0060
Earth	38131-03-19 16:05 G	15648198.99	15648199.17	15648199.40	0.0090	0.0056 *
Earth	38132-03-21 04:48 G	15648566.58	15648566.70	15648566.85	0.0090	0.0076
Moon	38132-03-21 06:43 G	15648566.66	15648566.78	15648566.96	0.0090	0.0072 *
Venus	38156-12-23 02:09 G	15657609.55	15657609.59	15657609.64	0.0089	0.0087
Venus	38157-08-05 15:07 G	15657835.02	15657835.13	15657835.28	0.0089	0.0072
Venus	38158-03-19 04:19 G	15658060.53	15658060.68	15658060.87	0.0089	0.0057
Venus	38158-10-30 17:45 G	15658286.06	15658286.24	15658286.45	0.0089	0.0041
Venus	38159-06-13 06:57 G	15658511.59	15658511.79	15658512.01	0.0089	0.0025
Venus	38160-01-24 20:24 G	15658737.13	15658737.35	15658737.57	0.0089	0.0010
Venus	38160-09-06 09:21 G	15658962.68	15658962.89	15658963.11	0.0089	0.0006
Venus	38161-04-19 22:33 G	15659188.23	15659188.44	15659188.66	0.0089	0.0022
Venus	38161-12-01 11:45 G	15659413.79	15659413.99	15659414.19	0.0089	0.0037
Venus	38162-07-15 00:29 G	15659639.36	15659639.52	15659639.71	0.0089	0.0053
Venus	38163-02-25 13:41 G	15659864.94	15659865.07	15659865.23	0.0089	0.0068
Venus	38163-10-09 02:53 G	15660090.55	15660090.62	15660090.71	0.0089	0.0083
Mercury	38181-05-21 09:36 G	15666524.88	15666524.90	15666524.95	0.0089	0.0086
Mercury	38181-08-17 11:02 G	15666612.91	15666612.96	15666613.03	0.0089	0.0078
Mercury	38181-11-13 12:14 G	15666700.95	15666701.01	15666701.10	0.0089	0.0071
Mercury	38182-02-09 13:41 G	15666788.99	15666789.07	15666789.17	0.0089	0.0063
Mercury	38182-05-08 15:07 G	15666877.03	15666877.13	15666877.23	0.0089	0.0056
Mercury	38182-08-04 16:19 G	15666965.08	15666965.18	15666965.30	0.0089	0.0049
Mercury	38182-10-31 17:31 G	15667053.12	15667053.23	15667053.36	0.0089	0.0042
Mercury	38183-01-27 18:57 G	15667141.17	15667141.29	15667141.42	0.0089	0.0034
Mercury	38183-04-25 20:24 G	15667229.23	15667229.35	15667229.48	0.0089	0.0026
Mercury	38183-07-22 21:36 G	15667317.28	15667317.40	15667317.54	0.0089	0.0019
Mercury	38183-10-18 23:02 G	15667405.33	15667405.46	15667405.59	0.0089	0.0012
Mercury	38184-01-15 00:14 G	15667493.38	15667493.51	15667493.65	0.0089	0.0006

Mercury	38184-04-12 01:41 G	15667581.44	15667581.57	15667581.70	0.0089	0.0003
Mercury	38184-07-09 03:07 G	15667669.49	15667669.63	15667669.76	0.0089	0.0011
Mercury	38184-10-05 04:19 G	15667757.55	15667757.68	15667757.81	0.0089	0.0018
Mercury	38185-01-01 05:31 G	15667845.61	15667845.73	15667845.86	0.0089	0.0026
Mercury	38185-03-30 06:57 G	15667933.67	15667933.79	15667933.91	0.0088	0.0033
Mars	38185-05-07 21:07 G	15667972.16	15667972.38	15667972.66	0.0088	0.0045
Mercury	38185-06-26 08:09 G	15668021.73	15668021.84	15668021.97	0.0088	0.0040
Mercury	38185-09-22 09:36 G	15668109.79	15668109.90	15668110.01	0.0088	0.0048
Mercury	38185-12-19 10:48 G	15668197.85	15668197.95	15668198.06	0.0088	0.0055
Mercury	38186-03-17 12:14 G	15668285.92	15668286.01	15668286.11	0.0088	0.0063
Mercury	38186-06-13 13:26 G	15668373.99	15668374.06	15668374.15	0.0088	0.0070
Mercury	38186-09-09 14:53 G	15668462.06	15668462.12	15668462.19	0.0088	0.0078
Mercury	38186-12-06 16:05 G	15668550.15	15668550.17	15668550.21	0.0088	0.0085
Mars	38187-04-01 10:48 G	15668665.67	15668665.95	15668666.23	0.0088	0.0023
Earth	38206-09-06 04:33 G	15675762.56	15675762.69	15675762.86	0.0088	0.0071
Moon	38206-09-06 07:55 G	15675762.71	15675762.83	15675762.97	0.0088	0.0074 *
Moon	38207-09-08 12:14 G	15676129.82	15676130.01	15676130.25	0.0088	0.0049
Earth	38207-09-08 16:19 G	15676129.98	15676130.18	15676130.40	0.0088	0.0051 *
Earth	38208-09-10 03:07 G	15676497.41	15676497.63	15676497.90	0.0088	0.0032
Moon	38208-09-10 06:43 G	15676497.56	15676497.78	15676498.04	0.0088	0.0035 *
Moon	38209-09-12 11:45 G	15676864.74	15676864.99	15676865.24	0.0088	0.0008
Earth	38209-09-12 14:53 G	15676864.87	15676865.12	15676865.38	0.0088	0.0012 *
Earth	38210-09-15 02:09 G	15677232.33	15677232.59	15677232.85	0.0088	0.0008
Moon	38210-09-15 04:05 G	15677232.40	15677232.67	15677232.94	0.0088	0.0005 *
Moon	38211-09-17 12:14 G	15677599.79	15677600.01	15677600.25	0.0088	0.0031
Earth	38211-09-17 13:12 G	15677599.81	15677600.05	15677600.31	0.0088	0.0028 *
Moon	38212-09-19 00:00 G	15677967.28	15677967.50	15677967.75	0.0088	0.0044
Earth	38212-09-19 00:00 G	15677967.30	15677967.50	15677967.73	0.0088	0.0048 *
Earth	38213-09-21 11:17 G	15678334.81	15678334.97	15678335.14	0.0088	0.0067
Moon	38213-09-21 12:29 G	15678334.90	15678335.02	15678335.20	0.0088	0.0071 *

Moon	38214-09-23 19:12 G	15678702.25	15678702.30	15678702.41	0.0088	0.0084
Earth	38214-09-23 21:50 G	15678702.40	15678702.41	15678702.47	0.0088	0.0087 *
Venus	38240-05-04 13:12 G	15688056.95	15688057.05	15688057.18	0.0088	0.0075
Venus	38240-12-16 02:09 G	15688282.44	15688282.59	15688282.76	0.0088	0.0060
Venus	38241-07-29 15:07 G	15688507.95	15688508.13	15688508.32	0.0088	0.0045
Venus	38242-03-12 03:50 G	15688733.46	15688733.66	15688733.88	0.0088	0.0031
Venus	38242-10-23 16:48 G	15688958.99	15688959.20	15688959.42	0.0088	0.0016
Venus	38243-06-06 05:45 G	15689184.52	15689184.74	15689184.96	0.0088	0.0001
Venus	38244-01-17 18:29 G	15689410.06	15689410.27	15689410.49	0.0088	0.0014
Venus	38244-08-30 07:12 G	15689635.61	15689635.80	15689636.02	0.0088	0.0029
Venus	38245-04-12 20:09 G	15689861.16	15689861.34	15689861.54	0.0088	0.0044
Venus	38245-11-24 08:53 G	15690086.72	15690086.87	15690087.05	0.0088	0.0059
Venus	38246-07-07 22:05 G	15690312.30	15690312.42	15690312.54	0.0088	0.0073
Mercury	38265-10-26 11:02 G	15697362.89	15697362.96	15697363.05	0.0089	0.0080
Mercury	38266-01-22 14:38 G	15697451.00	15697451.11	15697451.24	0.0089	0.0069
Mercury	38266-04-20 18:29 G	15697539.12	15697539.27	15697539.42	0.0089	0.0058
Mercury	38266-07-17 22:05 G	15697627.26	15697627.42	15697627.59	0.0089	0.0047
Mercury	38266-10-14 01:26 G	15697715.39	15697715.56	15697715.75	0.0089	0.0037
Mercury	38267-01-10 05:02 G	15697803.53	15697803.71	15697803.91	0.0089	0.0026
Mercury	38267-04-08 08:38 G	15697891.68	15697891.86	15697892.06	0.0089	0.0015
Mercury	38267-07-05 12:29 G	15697979.82	15697980.02	15697980.21	0.0089	0.0004
Mercury	38267-10-01 16:05 G	15698067.97	15698068.17	15698068.36	0.0089	0.0007
Mercury	38267-12-28 19:26 G	15698156.13	15698156.31	15698156.50	0.0089	0.0018
Mercury	38268-03-25 22:48 G	15698244.28	15698244.45	15698244.65	0.0089	0.0029
Mercury	38268-06-22 02:38 G	15698332.44	15698332.61	15698332.78	0.0089	0.0039
Mercury	38268-09-18 06:00 G	15698420.60	15698420.75	15698420.92	0.0089	0.0050
Mercury	38268-12-15 09:21 G	15698508.77	15698508.89	15698509.04	0.0089	0.0061
Mars	38269-02-12 12:43 G	15698567.72	15698568.03	15698568.37	0.0089	0.0029
Mercury	38269-03-13 12:43 G	15698596.94	15698597.03	15698597.16	0.0089	0.0072
Mercury	38269-06-09 16:33 G	15698685.13	15698685.19	15698685.27	0.0089	0.0082



Mars	38271-01-09 20:53 G	15699264.12	15699264.37	15699264.67	0.0089	0.0053
Jupiter	38286-04-06 22:19 G	15704829.93	15704830.43	15704830.94	0.0089	0.0029
Moon	38289-03-05 21:21 G	15705894.28	15705894.39	15705894.53	0.0089	0.0077
Earth	38289-03-06 00:14 G	15705894.42	15705894.51	15705894.65	0.0089	0.0080 *
Earth	38290-03-08 12:43 G	15706261.84	15706262.03	15706262.22	0.0089	0.0059
Moon	38290-03-08 15:21 G	15706261.96	15706262.14	15706262.34	0.0089	0.0061 *
Moon	38291-03-10 23:17 G	15706629.25	15706629.47	15706629.70	0.0089	0.0036
Earth	38291-03-11 00:29 G	15706629.30	15706629.52	15706629.76	0.0089	0.0039 *
Moon	38292-03-12 12:57 G	15706996.78	15706997.04	15706997.30	0.0089	0.0020
Earth	38292-03-12 12:43 G	15706996.79	15706997.03	15706997.29	0.0089	0.0018 *
Earth	38293-03-15 00:57 G	15707364.29	15707364.54	15707364.80	0.0090	0.0004
Moon	38293-03-15 01:41 G	15707364.32	15707364.57	15707364.82	0.0090	0.0005 *
Moon	38294-03-17 10:33 G	15707731.70	15707731.94	15707732.21	0.0090	0.0022
Earth	38294-03-17 12:57 G	15707731.80	15707732.04	15707732.30	0.0090	0.0024 *
Earth	38295-03-20 01:12 G	15708099.34	15708099.55	15708099.78	0.0090	0.0045
Moon	38295-03-20 03:50 G	15708099.47	15708099.66	15708099.89	0.0090	0.0048 *
Moon	38296-03-21 10:05 G	15708466.75	15708466.92	15708467.11	0.0090	0.0064
Earth	38296-03-21 13:26 G	15708466.90	15708467.06	15708467.25	0.0090	0.0066 *
Earth	38297-03-24 01:26 G	15708834.52	15708834.56	15708834.65	0.0090	0.0087
Moon	38297-03-24 05:17 G	15708834.70	15708834.72	15708834.78	0.0090	0.0089
Venus	38321-11-09 01:41 G	15717829.46	15717829.57	15717829.68	0.0089	0.0077
Venus	38322-06-22 14:38 G	15718054.96	15718055.11	15718055.28	0.0089	0.0062
Venus	38323-02-03 03:36 G	15718280.48	15718280.65	15718280.86	0.0089	0.0047
Venus	38323-09-16 17:17 G	15718506.01	15718506.22	15718506.43	0.0089	0.0031
Venus	38324-04-29 06:14 G	15718731.55	15718731.76	15718731.99	0.0089	0.0016
Venus	38324-12-10 19:41 G	15718957.10	15718957.32	15718957.54	0.0089	0.0001
Venus	38325-07-24 08:53 G	15719182.65	15719182.87	15719183.08	0.0089	0.0016
Venus	38326-03-06 21:50 G	15719408.22	15719408.41	15719408.63	0.0089	0.0031
Venus	38326-10-18 11:02 G	15719633.78	15719633.96	15719634.16	0.0089	0.0046
Venus	38327-06-01 00:14 G	15719859.36	15719859.51	15719859.67	0.0089	0.0062

Venus	38328-01-12 12:43 G	15720084.95	15720085.03	15720085.17	0.0089	0.0078
Mercury	38346-02-17 09:22 G	15726695.86	15726695.89	15726695.95	0.0089	0.0083
Mercury	38346-05-16 10:34 G	15726783.89	15726783.94	15726784.02	0.0089	0.0076
Mercury	38346-08-12 12:14 G	15726871.93	15726872.01	15726872.09	0.0089	0.0068
Mercury	38346-11-08 13:26 G	15726959.97	15726960.06	15726960.16	0.0089	0.0061
Mercury	38347-02-04 14:38 G	15727048.01	15727048.11	15727048.22	0.0089	0.0054
Mercury	38347-05-03 16:05 G	15727136.06	15727136.17	15727136.28	0.0089	0.0046
Mercury	38347-07-30 17:17 G	15727224.11	15727224.22	15727224.35	0.0089	0.0039
Mercury	38347-10-26 18:29 G	15727312.16	15727312.27	15727312.41	0.0089	0.0032
Mercury	38348-01-22 20:10 G	15727400.21	15727400.34	15727400.46	0.0089	0.0024
Mercury	38348-04-19 21:22 G	15727488.26	15727488.39	15727488.52	0.0089	0.0016
Mercury	38348-07-16 22:34 G	15727576.31	15727576.44	15727576.58	0.0089	0.0010
Mercury	38348-10-13 00:00 G	15727664.37	15727664.50	15727664.63	0.0089	0.0002
Mars	38348-12-23 10:19 G	15727735.75	15727735.93	15727736.14	0.0089	0.0065
Mercury	38349-01-09 01:12 G	15727752.42	15727752.55	15727752.69	0.0089	0.0006
Mercury	38349-04-07 02:38 G	15727840.48	15727840.61	15727840.74	0.0089	0.0013
Mercury	38349-07-04 03:50 G	15727928.53	15727928.66	15727928.79	0.0089	0.0021
Mercury	38349-09-30 05:17 G	15728016.59	15728016.72	15728016.85	0.0089	0.0028
Mercury	38349-12-27 06:29 G	15728104.65	15728104.77	15728104.90	0.0089	0.0036
Mercury	38350-03-25 07:55 G	15728192.71	15728192.83	15728192.95	0.0089	0.0043
Mercury	38350-06-21 09:07 G	15728280.78	15728280.88	15728280.99	0.0088	0.0050
Mercury	38350-09-17 10:34 G	15728368.84	15728368.94	15728369.04	0.0088	0.0058
Mars	38350-11-17 00:14 G	15728429.22	15728429.51	15728429.80	0.0088	0.0002
Mercury	38350-12-14 11:46 G	15728456.91	15728456.99	15728457.09	0.0088	0.0065
Mercury	38351-03-12 13:12 G	15728544.98	15728545.05	15728545.13	0.0088	0.0073
Mercury	38351-06-08 14:10 G	15728633.05	15728633.09	15728633.16	0.0088	0.0081
Mercury	38351-09-04 15:50 G	15728721.15	15728721.16	15728721.18	0.0088	0.0088
Mars	38352-10-10 12:58 G	15729122.89	15729123.04	15729123.25	0.0088	0.0070
Moon	38370-09-06 10:48 G	15735662.90	15735662.95	15735663.02	0.0088	0.0085
Earth	38370-09-06 13:55 G	15735663.01	15735663.08	15735663.20	0.0088	0.0082 *

Earth	38371-09-09 01:12 G	15736030.39	15736030.55	15736030.76	0.0088	0.0062
Moon	38371-09-09 04:34 G	15736030.52	15736030.69	15736030.91	0.0088	0.0058 *
Moon	38372-09-10 10:05 G	15736397.73	15736397.92	15736398.16	0.0088	0.0046
Earth	38372-09-10 12:29 G	15736397.81	15736398.02	15736398.27	0.0088	0.0042 *
Earth	38373-09-13 00:00 G	15736765.26	15736765.50	15736765.76	0.0088	0.0022
Moon	38373-09-13 01:41 G	15736765.32	15736765.57	15736765.84	0.0088	0.0019 *
Earth	38374-09-15 11:31 G	15737132.72	15737132.98	15737133.24	0.0088	0.0002
Moon	38374-09-15 11:17 G	15737132.72	15737132.97	15737133.23	0.0088	0.0006 *
Moon	38375-09-17 21:07 G	15737500.14	15737500.38	15737500.66	0.0088	0.0022
Earth	38375-09-17 22:34 G	15737500.19	15737500.44	15737500.70	0.0088	0.0018 *
Earth	38376-09-19 09:36 G	15737867.68	15737867.90	15737868.15	0.0088	0.0038
Moon	38376-09-19 11:17 G	15737867.76	15737867.97	15737868.22	0.0088	0.0035 *
Moon	38377-09-21 17:02 G	15738235.05	15738235.21	15738235.43	0.0088	0.0062
Earth	38377-09-21 20:24 G	15738235.18	15738235.35	15738235.57	0.0088	0.0058 *
Earth	38378-09-24 07:26 G	15738602.72	15738602.81	15738602.96	0.0088	0.0078
Moon	38378-09-24 11:02 G	15738602.84	15738602.96	15738603.11	0.0088	0.0074 *
Venus	38404-08-07 00:14 G	15748051.44	15748051.51	15748051.62	0.0088	0.0079
Venus	38405-03-20 13:26 G	15748276.92	15748277.06	15748277.21	0.0088	0.0064
Venus	38405-11-01 01:55 G	15748502.42	15748502.58	15748502.78	0.0088	0.0050
Venus	38406-06-14 14:53 G	15748727.93	15748728.12	15748728.33	0.0088	0.0035
Venus	38407-01-26 03:50 G	15748953.45	15748953.66	15748953.88	0.0088	0.0021
Venus	38407-09-08 16:48 G	15749178.99	15749179.20	15749179.43	0.0088	0.0006
Venus	38408-04-21 05:46 G	15749404.52	15749404.74	15749404.96	0.0088	0.0009
Venus	38408-12-02 18:14 G	15749630.06	15749630.26	15749630.49	0.0088	0.0025
Venus	38409-07-16 06:58 G	15749855.61	15749855.79	15749856.01	0.0088	0.0039
Venus	38410-02-26 20:10 G	15750081.17	15750081.34	15750081.52	0.0088	0.0053
Venus	38410-10-10 08:53 G	15750306.75	15750306.87	15750307.02	0.0088	0.0068
Venus	38411-05-23 21:36 G	15750532.35	15750532.40	15750532.49	0.0088	0.0083
Mercury	38430-04-27 06:14 G	15757445.72	15757445.76	15757445.80	0.0089	0.0086
Mercury	38430-07-24 09:50 G	15757533.81	15757533.91	15757534.01	0.0089	0.0075

Mercury	38430-10-20 12:58 G	15757621.93	15757622.04	15757622.20	0.0089	0.0065
Mercury	38431-01-16 16:48 G	15757710.06	15757710.20	15757710.37	0.0089	0.0054
Mercury	38431-04-14 20:24 G	15757798.20	15757798.35	15757798.54	0.0089	0.0043
Mercury	38431-07-12 00:14 G	15757886.33	15757886.51	15757886.70	0.0089	0.0032
Mercury	38431-10-08 03:50 G	15757974.48	15757974.66	15757974.85	0.0089	0.0021
Mercury	38432-01-04 07:26 G	15758062.62	15758062.81	15758063.01	0.0089	0.0010
Mercury	38432-04-01 11:02 G	15758150.77	15758150.96	15758151.16	0.0089	0.0002
Mercury	38432-06-28 14:38 G	15758238.92	15758239.11	15758239.31	0.0089	0.0012
Mercury	38432-09-24 18:00 G	15758327.07	15758327.25	15758327.45	0.0089	0.0023
Mars	38432-09-26 23:02 G	15758329.21	15758329.46	15758329.76	0.0089	0.0053
Mercury	38432-12-21 21:36 G	15758415.23	15758415.40	15758415.59	0.0089	0.0034
Mercury	38433-03-20 01:26 G	15758503.39	15758503.56	15758503.72	0.0089	0.0044
Mercury	38433-06-16 04:48 G	15758591.55	15758591.70	15758591.86	0.0089	0.0055
Mercury	38433-09-12 08:10 G	15758679.72	15758679.84	15758679.98	0.0089	0.0066
Mercury	38433-12-09 11:31 G	15758767.90	15758767.98	15758768.10	0.0089	0.0077
Mercury	38434-03-07 15:22 G	15758856.11	15758856.14	15758856.18	0.0089	0.0087
Mars	38434-08-24 08:24 G	15759025.55	15759025.85	15759026.20	0.0089	0.0029
Moon	38454-03-08 20:38 G	15766162.23	15766162.36	15766162.55	0.0089	0.0068
Earth	38454-03-08 21:36 G	15766162.27	15766162.40	15766162.59	0.0089	0.0071 *
Moon	38455-03-11 09:36 G	15766529.70	15766529.90	15766530.13	0.0089	0.0053
Earth	38455-03-11 09:50 G	15766529.72	15766529.91	15766530.15	0.0089	0.0050 *
Earth	38456-03-12 22:19 G	15766897.19	15766897.43	15766897.68	0.0089	0.0029
Moon	38456-03-13 00:14 G	15766897.28	15766897.51	15766897.75	0.0089	0.0026 *
Moon	38457-03-15 08:10 G	15767264.58	15767264.84	15767265.10	0.0089	0.0011
Earth	38457-03-15 10:34 G	15767264.69	15767264.94	15767265.20	0.0089	0.0007 *
Earth	38458-03-17 22:34 G	15767632.19	15767632.44	15767632.70	0.0090	0.0014
Moon	38458-03-18 01:55 G	15767632.34	15767632.58	15767632.83	0.0090	0.0017 *
Moon	38459-03-20 06:58 G	15767999.56	15767999.79	15768000.04	0.0090	0.0032
Earth	38459-03-20 10:34 G	15767999.72	15767999.94	15768000.19	0.0090	0.0035 *
Earth	38460-03-21 22:34 G	15768367.26	15768367.44	15768367.66	0.0090	0.0056

Moon	38460-03-22 01:55 G	15768367.41	15768367.58	15768367.79	0.0090	0.0060 *
Moon	38461-03-24 07:41 G	15768734.70	15768734.82	15768734.99	0.0090	0.0073
Earth	38461-03-24 10:34 G	15768734.84	15768734.94	15768735.10	0.0090	0.0077 *
Venus	38486-02-10 12:14 G	15777823.94	15777824.01	15777824.11	0.0089	0.0082
Venus	38486-09-24 01:26 G	15778049.43	15778049.56	15778049.72	0.0089	0.0067
Venus	38487-05-07 14:24 G	15778274.94	15778275.10	15778275.30	0.0089	0.0052
Venus	38487-12-19 03:50 G	15778500.46	15778500.66	15778500.87	0.0089	0.0036
Venus	38488-07-31 17:02 G	15778726.00	15778726.21	15778726.43	0.0089	0.0020
Venus	38489-03-14 06:29 G	15778951.55	15778951.77	15778951.99	0.0089	0.0005
Venus	38489-10-25 19:26 G	15779177.10	15779177.31	15779177.53	0.0089	0.0010
Venus	38490-06-08 08:38 G	15779402.65	15779402.86	15779403.07	0.0089	0.0025
Venus	38491-01-19 21:50 G	15779628.21	15779628.41	15779628.60	0.0089	0.0041
Venus	38491-09-02 10:34 G	15779853.79	15779853.94	15779854.13	0.0089	0.0056
Venus	38492-04-14 23:46 G	15780079.38	15780079.49	15780079.64	0.0089	0.0072
Venus	38492-11-26 12:58 G	15780305.00	15780305.04	15780305.11	0.0089	0.0087
Mercury	38510-08-19 07:55 G	15786778.82	15786778.83	15786778.87	0.0089	0.0087
Mercury	38510-11-15 09:07 G	15786866.84	15786866.88	15786866.95	0.0089	0.0080
Mercury	38511-02-11 10:48 G	15786954.88	15786954.95	15786955.03	0.0089	0.0072
Mercury	38511-05-10 12:00 G	15787042.91	15787043.00	15787043.09	0.0089	0.0065
Mercury	38511-08-06 13:12 G	15787130.96	15787131.05	15787131.16	0.0089	0.0058
Mercury	38511-11-02 14:38 G	15787219.00	15787219.11	15787219.22	0.0089	0.0050
Mercury	38512-01-29 15:50 G	15787307.05	15787307.16	15787307.28	0.0089	0.0043
Mercury	38512-04-26 17:02 G	15787395.10	15787395.21	15787395.34	0.0089	0.0036
Mercury	38512-07-23 18:29 G	15787483.15	15787483.27	15787483.40	0.0089	0.0028
Mars	38512-08-09 02:38 G	15787499.54	15787499.61	15787499.69	0.0089	0.0085
Mercury	38512-10-19 19:55 G	15787571.20	15787571.33	15787571.46	0.0089	0.0021
Mercury	38513-01-15 21:07 G	15787659.25	15787659.38	15787659.51	0.0089	0.0013
Mercury	38513-04-13 22:34 G	15787747.30	15787747.44	15787747.57	0.0089	0.0006
Mercury	38513-07-10 23:46 G	15787835.36	15787835.49	15787835.62	0.0089	0.0002
Mercury	38513-10-07 00:58 G	15787923.41	15787923.54	15787923.68	0.0089	0.0010

Mercury	38514-01-03 02:24 G	15788011.47	15788011.60	15788011.73	0.0089	0.0016
Mercury	38514-04-01 03:36 G	15788099.53	15788099.65	15788099.78	0.0089	0.0024
Mercury	38514-06-28 04:48 G	15788187.59	15788187.70	15788187.83	0.0089	0.0032
Mars	38514-07-03 15:07 G	15788192.85	15788193.13	15788193.41	0.0089	0.0018
Mercury	38514-09-24 06:14 G	15788275.65	15788275.76	15788275.88	0.0089	0.0039
Mercury	38514-12-21 07:26 G	15788363.71	15788363.81	15788363.93	0.0088	0.0047
Mercury	38515-03-19 08:53 G	15788451.77	15788451.87	15788451.98	0.0088	0.0054
Mercury	38515-06-15 10:05 G	15788539.84	15788539.92	15788540.03	0.0088	0.0061
Mercury	38515-09-11 11:31 G	15788627.90	15788627.98	15788628.07	0.0088	0.0069
Mercury	38515-12-08 12:58 G	15788715.98	15788716.04	15788716.11	0.0088	0.0076
Mercury	38516-03-05 14:10 G	15788804.06	15788804.09	15788804.14	0.0088	0.0084
Mars	38516-05-27 04:34 G	15788886.47	15788886.69	15788886.95	0.0088	0.0050
Moon	38535-09-09 09:07 G	15795930.75	15795930.88	15795931.02	0.0088	0.0074
Earth	38535-09-09 11:17 G	15795930.83	15795930.97	15795931.12	0.0088	0.0072 *
Earth	38536-09-10 22:05 G	15796298.23	15796298.42	15796298.65	0.0088	0.0053
Moon	38536-09-10 22:48 G	15796298.25	15796298.45	15796298.68	0.0088	0.0051 *
Earth	38537-09-13 09:50 G	15796665.67	15796665.91	15796666.15	0.0088	0.0032
Moon	38537-09-13 10:05 G	15796665.69	15796665.92	15796666.15	0.0088	0.0034 *
Moon	38538-09-15 19:12 G	15797033.04	15797033.30	15797033.57	0.0088	0.0011
Earth	38538-09-15 21:07 G	15797033.12	15797033.38	15797033.64	0.0088	0.0012 *
Earth	38539-09-18 08:10 G	15797400.59	15797400.84	15797401.11	0.0088	0.0008
Moon	38539-09-18 11:02 G	15797400.71	15797400.96	15797401.22	0.0088	0.0007 *
Moon	38540-09-19 16:05 G	15797767.94	15797768.17	15797768.43	0.0088	0.0030
Earth	38540-09-19 19:26 G	15797768.07	15797768.31	15797768.56	0.0088	0.0028 *
Earth	38541-09-22 06:29 G	15798135.57	15798135.77	15798136.00	0.0088	0.0048
Moon	38541-09-22 10:05 G	15798135.72	15798135.92	15798136.16	0.0088	0.0046 *
Moon	38542-09-24 14:24 G	15798502.97	15798503.10	15798503.28	0.0088	0.0070
Earth	38542-09-24 17:46 G	15798503.09	15798503.24	15798503.42	0.0088	0.0068 *
Earth	38543-09-27 04:48 G	15798870.70	15798870.70	15798870.72	0.0088	0.0088
Moon	38543-09-27 07:26 G	15798870.77	15798870.81	15798870.91	0.0088	0.0085

Venus	38568-11-09 11:31 G	15808045.92	15808045.98	15808046.06	0.0088	0.0083
Venus	38569-06-23 00:00 G	15808271.39	15808271.50	15808271.66	0.0088	0.0069
Venus	38570-02-03 13:12 G	15808496.88	15808497.05	15808497.23	0.0088	0.0054
Venus	38570-09-17 01:55 G	15808722.40	15808722.58	15808722.80	0.0088	0.0040
Venus	38571-04-30 15:07 G	15808947.92	15808948.13	15808948.35	0.0088	0.0025
Venus	38571-12-12 04:05 G	15809173.45	15809173.67	15809173.89	0.0088	0.0010
Venus	38572-07-24 16:48 G	15809398.98	15809399.20	15809399.42	0.0088	0.0005
Venus	38573-03-07 05:31 G	15809624.52	15809624.73	15809624.96	0.0088	0.0019
Venus	38573-10-18 18:29 G	15809850.07	15809850.27	15809850.48	0.0088	0.0034
Venus	38574-06-01 07:26 G	15810075.63	15810075.81	15810076.00	0.0088	0.0049
Venus	38575-01-12 19:55 G	15810301.20	15810301.33	15810301.50	0.0088	0.0064
Venus	38575-08-26 08:53 G	15810526.79	15810526.87	15810526.99	0.0088	0.0078
Mercury	38595-01-23 04:48 G	15817616.64	15817616.70	15817616.79	0.0089	0.0081
Mercury	38595-04-21 08:38 G	15817704.75	15817704.86	15817704.98	0.0089	0.0070
Mercury	38595-07-18 12:14 G	15817792.87	15817793.01	15817793.16	0.0089	0.0059
Mercury	38595-10-14 15:50 G	15817881.00	15817881.16	15817881.33	0.0089	0.0048
Mercury	38596-01-10 19:41 G	15817969.14	15817969.32	15817969.49	0.0089	0.0037
Mercury	38596-04-07 23:17 G	15818057.28	15818057.47	15818057.65	0.0089	0.0026
Mars	38596-05-11 09:50 G	15818090.77	15818090.91	15818091.10	0.0089	0.0078
Mercury	38596-07-05 02:38 G	15818145.43	15818145.61	15818145.81	0.0089	0.0016
Mercury	38596-10-01 06:29 G	15818233.57	15818233.77	15818233.96	0.0089	0.0004
Mercury	38596-12-28 10:05 G	15818321.72	15818321.92	15818322.11	0.0089	0.0006
Mercury	38597-03-26 13:26 G	15818409.88	15818410.06	15818410.26	0.0089	0.0018
Mercury	38597-06-22 17:02 G	15818498.03	15818498.21	15818498.40	0.0089	0.0028
Mercury	38597-09-18 20:38 G	15818586.19	15818586.36	15818586.54	0.0089	0.0039
Mercury	38597-12-16 00:00 G	15818674.35	15818674.50	15818674.67	0.0089	0.0050
Mercury	38598-03-14 03:22 G	15818762.52	15818762.64	15818762.80	0.0089	0.0061
Mars	38598-04-07 20:53 G	15818787.03	15818787.37	15818787.72	0.0089	0.0005
Mercury	38598-06-10 07:12 G	15818850.69	15818850.80	15818850.92	0.0089	0.0071
Mercury	38598-09-06 10:34 G	15818938.88	15818938.94	15818939.03	0.0089	0.0082

Mars	38600-03-05 05:17 G	15819483.66	15819483.72	15819483.82	0.0089	0.0086
Moon	38618-03-10 06:43 G	15826062.68	15826062.78	15826062.94	0.0089	0.0078
Earth	38618-03-10 08:24 G	15826062.75	15826062.85	15826062.96	0.0089	0.0081 *
Earth	38619-03-12 20:38 G	15826430.17	15826430.36	15826430.55	0.0089	0.0060
Moon	38619-03-12 22:19 G	15826430.27	15826430.43	15826430.62	0.0089	0.0064 *
Moon	38620-03-14 05:31 G	15826797.49	15826797.73	15826797.97	0.0089	0.0035
Earth	38620-03-14 08:24 G	15826797.64	15826797.85	15826798.10	0.0089	0.0040 *
Earth	38621-03-16 20:53 G	15827165.12	15827165.37	15827165.63	0.0089	0.0018
Moon	38621-03-17 00:00 G	15827165.27	15827165.50	15827165.76	0.0089	0.0022 *
Moon	38622-03-19 05:17 G	15827532.47	15827532.72	15827532.98	0.0089	0.0007
Earth	38622-03-19 09:07 G	15827532.62	15827532.88	15827533.14	0.0089	0.0003 *
Earth	38623-03-21 20:53 G	15827900.14	15827900.37	15827900.63	0.0090	0.0025
Moon	38623-03-22 00:14 G	15827900.26	15827900.51	15827900.77	0.0090	0.0021 *
Moon	38624-03-23 06:29 G	15828267.58	15828267.77	15828268.00	0.0090	0.0049
Earth	38624-03-23 09:07 G	15828267.67	15828267.88	15828268.11	0.0090	0.0046 *
Earth	38625-03-25 20:53 G	15828635.22	15828635.37	15828635.56	0.0090	0.0067
Moon	38625-03-25 22:48 G	15828635.28	15828635.45	15828635.65	0.0090	0.0064 *
Earth	38626-03-28 09:07 G	15829002.85	15829002.88	15829002.96	0.0090	0.0088
Saturn	38648-06-21 12:43 G	15837123.72	15837124.03	15837124.43	0.0089	0.0075
Venus	38650-05-16 23:02 G	15837818.43	15837818.46	15837818.55	0.0089	0.0087
Venus	38650-12-28 12:58 G	15838043.91	15838044.04	15838044.17	0.0089	0.0071
Venus	38651-08-11 01:55 G	15838269.41	15838269.58	15838269.76	0.0089	0.0056
Venus	38652-03-23 15:07 G	15838494.94	15838495.13	15838495.33	0.0089	0.0041
Venus	38652-11-04 04:19 G	15838720.48	15838720.68	15838720.90	0.0089	0.0025
Venus	38653-06-17 17:31 G	15838946.01	15838946.23	15838946.45	0.0089	0.0010
Venus	38654-01-29 06:43 G	15839171.56	15839171.78	15839172.00	0.0089	0.0005
Venus	38654-09-11 19:41 G	15839397.11	15839397.32	15839397.54	0.0089	0.0021
Venus	38655-04-25 09:07 G	15839622.68	15839622.88	15839623.08	0.0089	0.0036
Venus	38655-12-06 21:50 G	15839848.25	15839848.41	15839848.60	0.0089	0.0051
Venus	38656-07-19 10:48 G	15840073.83	15840073.95	15840074.12	0.0089	0.0067



Venus	38657-03-02 00:00 G	15840299.44	15840299.50	15840299.61	0.0089	0.0082
Mercury	38675-05-17 07:41 G	15846949.80	15846949.82	15846949.88	0.0089	0.0084
Mercury	38675-08-13 09:22 G	15847037.83	15847037.89	15847037.96	0.0089	0.0076
Mercury	38675-11-09 10:34 G	15847125.86	15847125.94	15847126.03	0.0089	0.0069
Mercury	38676-02-05 11:46 G	15847213.91	15847213.99	15847214.09	0.0089	0.0062
Mercury	38676-05-03 13:12 G	15847301.95	15847302.05	15847302.16	0.0089	0.0054
Mercury	38676-07-30 14:24 G	15847389.99	15847390.10	15847390.22	0.0089	0.0047
Mercury	38676-10-26 15:36 G	15847478.04	15847478.15	15847478.28	0.0089	0.0040
Mercury	38677-01-22 17:02 G	15847566.09	15847566.21	15847566.34	0.0089	0.0032
Mercury	38677-04-20 18:29 G	15847654.14	15847654.27	15847654.40	0.0089	0.0025
Mercury	38677-07-17 19:41 G	15847742.19	15847742.32	15847742.45	0.0089	0.0017
Mercury	38677-10-13 20:53 G	15847830.24	15847830.37	15847830.51	0.0089	0.0011
Mercury	38678-01-09 22:19 G	15847918.30	15847918.43	15847918.56	0.0089	0.0002
Mars	38678-02-17 07:12 G	15847956.57	15847956.80	15847957.08	0.0089	0.0039
Mercury	38678-04-07 23:31 G	15848006.35	15848006.48	15848006.62	0.0089	0.0006
Mercury	38678-07-05 00:58 G	15848094.41	15848094.54	15848094.67	0.0089	0.0012
Mercury	38678-10-01 02:10 G	15848182.46	15848182.59	15848182.72	0.0089	0.0020
Mercury	38678-12-28 03:22 G	15848270.52	15848270.64	15848270.77	0.0089	0.0028
Mercury	38679-03-26 04:48 G	15848358.58	15848358.70	15848358.82	0.0089	0.0035
Mercury	38679-06-22 06:00 G	15848446.64	15848446.75	15848446.87	0.0089	0.0042
Mercury	38679-09-18 07:26 G	15848534.70	15848534.81	15848534.92	0.0089	0.0049
Mercury	38679-12-15 08:53 G	15848622.77	15848622.87	15848622.97	0.0088	0.0057
Mars	38680-01-11 19:12 G	15848650.04	15848650.30	15848650.59	0.0088	0.0030
Mercury	38680-03-12 09:50 G	15848710.83	15848710.91	15848711.01	0.0088	0.0065
Mercury	38680-06-08 11:31 G	15848798.90	15848798.98	15848799.05	0.0088	0.0072
Mercury	38680-09-04 12:29 G	15848886.98	15848887.02	15848887.09	0.0088	0.0080
Mercury	38680-12-01 14:10 G	15848975.07	15848975.09	15848975.11	0.0088	0.0087
Earth	38699-09-09 21:22 G	15855831.33	15855831.39	15855831.50	0.0088	0.0083
Moon	38699-09-09 21:50 G	15855831.40	15855831.41	15855831.47	0.0088	0.0087 *
Earth	38700-09-12 08:38 G	15856198.71	15856198.86	15856199.07	0.0088	0.0063

Moon	38700-09-12 10:05 G	15856198.75	15856198.92	15856199.13	0.0088	0.0059 *
Moon	38701-09-14 17:46 G	15856566.04	15856566.24	15856566.49	0.0088	0.0047
Earth	38701-09-14 19:55 G	15856566.13	15856566.33	15856566.58	0.0088	0.0043 *
Earth	38702-09-17 07:12 G	15856933.57	15856933.80	15856934.07	0.0088	0.0023
Moon	38702-09-17 10:34 G	15856933.69	15856933.94	15856934.19	0.0088	0.0018 *
Moon	38703-09-19 14:53 G	15857300.87	15857301.12	15857301.39	0.0088	0.0007
Earth	38703-09-19 18:43 G	15857301.02	15857301.28	15857301.54	0.0088	0.0002 *
Earth	38704-09-21 05:46 G	15857668.49	15857668.74	15857669.00	0.0088	0.0018
Moon	38704-09-21 09:07 G	15857668.64	15857668.88	15857669.14	0.0088	0.0022 *
Moon	38705-09-23 13:41 G	15858035.84	15858036.07	15858036.31	0.0088	0.0034
Earth	38705-09-23 17:02 G	15858035.98	15858036.21	15858036.45	0.0088	0.0038 *
Earth	38706-09-26 04:05 G	15858403.48	15858403.67	15858403.87	0.0088	0.0058
Moon	38706-09-26 05:46 G	15858403.58	15858403.74	15858403.95	0.0088	0.0063 *
Moon	38707-09-28 13:41 G	15858770.96	15858771.07	15858771.22	0.0088	0.0075
Earth	38707-09-28 14:38 G	15858771.03	15858771.11	15858771.26	0.0088	0.0079 *
Venus	38733-02-12 23:02 G	15868040.44	15868040.46	15868040.48	0.0088	0.0087
Venus	38733-09-26 11:31 G	15868265.88	15868265.98	15868266.13	0.0088	0.0073
Venus	38734-05-10 00:43 G	15868491.38	15868491.53	15868491.70	0.0088	0.0058
Venus	38734-12-21 13:26 G	15868716.88	15868717.06	15868717.27	0.0088	0.0044
Venus	38735-08-04 02:24 G	15868942.40	15868942.60	15868942.82	0.0088	0.0029
Venus	38736-03-16 15:36 G	15869167.93	15869168.15	15869168.37	0.0088	0.0014
Venus	38736-10-28 04:34 G	15869393.47	15869393.69	15869393.91	0.0088	0.0001
Venus	38737-06-10 17:02 G	15869619.00	15869619.21	15869619.44	0.0088	0.0016
Venus	38738-01-22 06:00 G	15869844.55	15869844.75	15869844.96	0.0088	0.0030
Venus	38738-09-04 18:43 G	15870070.11	15870070.28	15870070.49	0.0088	0.0045
Venus	38739-04-18 07:26 G	15870295.67	15870295.81	15870296.00	0.0088	0.0059
Venus	38739-11-29 20:24 G	15870521.25	15870521.35	15870521.49	0.0088	0.0074
Venus	38740-07-12 09:07 G	15870746.88	15870746.88	15870746.92	0.0088	0.0088
Mercury	38759-07-25 23:46 G	15877699.48	15877699.49	15877699.56	0.0089	0.0087
Mercury	38759-10-22 03:36 G	15877787.57	15877787.65	15877787.77	0.0089	0.0076

Mercury	38760-01-18 07:12 G	15877875.69	15877875.80	15877875.95	0.0089	0.0065
Mercury	38760-04-15 11:02 G	15877963.82	15877963.96	15877964.13	0.0089	0.0054
Mercury	38760-07-12 14:38 G	15878051.95	15878052.11	15878052.29	0.0089	0.0043
Mercury	38760-10-08 18:29 G	15878140.09	15878140.27	15878140.46	0.0089	0.0032
Mercury	38761-01-04 22:05 G	15878228.24	15878228.42	15878228.62	0.0089	0.0021
Mercury	38761-04-03 01:41 G	15878316.38	15878316.57	15878316.77	0.0089	0.0010
Mercury	38761-06-30 05:31 G	15878404.53	15878404.73	15878404.92	0.0089	0.0002
Mercury	38761-09-26 09:07 G	15878492.69	15878492.88	15878493.07	0.0089	0.0012
Mars	38761-11-21 08:38 G	15878548.53	15878548.86	15878549.20	0.0089	0.0020
Mercury	38761-12-23 12:43 G	15878580.84	15878581.03	15878581.21	0.0089	0.0023
Mercury	38762-03-21 16:05 G	15878669.00	15878669.17	15878669.36	0.0089	0.0034
Mercury	38762-06-17 19:26 G	15878757.16	15878757.31	15878757.49	0.0089	0.0045
Mercury	38762-09-13 23:02 G	15878845.32	15878845.46	15878845.62	0.0089	0.0056
Mercury	38762-12-11 02:24 G	15878933.50	15878933.60	15878933.75	0.0089	0.0067
Mercury	38763-03-09 06:14 G	15879021.68	15879021.76	15879021.86	0.0089	0.0077
Mercury	38763-06-05 09:36 G	15879109.89	15879109.90	15879109.94	0.0089	0.0088
Mars	38763-10-18 19:26 G	15879245.08	15879245.31	15879245.56	0.0089	0.0063
Moon	38783-03-13 03:07 G	15886330.49	15886330.63	15886330.82	0.0089	0.0069
Earth	38783-03-13 06:43 G	15886330.63	15886330.78	15886330.94	0.0089	0.0071 *
Earth	38784-03-14 18:43 G	15886698.08	15886698.28	15886698.50	0.0089	0.0050
Moon	38784-03-14 22:05 G	15886698.24	15886698.42	15886698.65	0.0089	0.0053 *
Moon	38785-03-17 03:50 G	15887065.42	15887065.66	15887065.91	0.0089	0.0027
Earth	38785-03-17 06:58 G	15887065.55	15887065.79	15887066.04	0.0089	0.0029 *
Earth	38786-03-19 19:12 G	15887433.05	15887433.30	15887433.56	0.0089	0.0008
Moon	38786-03-19 22:19 G	15887433.18	15887433.43	15887433.69	0.0089	0.0011 *
Moon	38787-03-22 05:46 G	15887800.50	15887800.74	15887800.99	0.0089	0.0016
Earth	38787-03-22 07:41 G	15887800.56	15887800.82	15887801.07	0.0089	0.0014 *
Earth	38788-03-23 19:12 G	15888168.08	15888168.30	15888168.56	0.0090	0.0036
Moon	38788-03-23 20:10 G	15888168.10	15888168.34	15888168.59	0.0090	0.0033 *
Earth	38789-03-26 07:26 G	15888535.63	15888535.81	15888536.03	0.0090	0.0057

Moon	38789-03-26 07:41 G	15888535.65	15888535.82	15888536.02	0.0090	0.0060 *
Moon	38790-03-28 17:46 G	15888903.12	15888903.24	15888903.40	0.0090	0.0075
Earth	38790-03-28 19:41 G	15888903.21	15888903.32	15888903.47	0.0090	0.0078 *
Venus	38815-04-02 00:00 G	15898038.40	15898038.50	15898038.64	0.0089	0.0075
Venus	38815-11-13 12:58 G	15898263.90	15898264.04	15898264.23	0.0089	0.0061
Venus	38816-06-26 02:10 G	15898489.42	15898489.59	15898489.80	0.0089	0.0046
Venus	38817-02-06 15:50 G	15898714.95	15898715.16	15898715.37	0.0089	0.0030
Venus	38817-09-20 04:48 G	15898940.49	15898940.70	15898940.92	0.0089	0.0015
Venus	38818-05-03 18:00 G	15899166.03	15899166.25	15899166.47	0.0089	0.0001
Venus	38818-12-15 07:12 G	15899391.58	15899391.80	15899392.01	0.0089	0.0016
Venus	38819-07-28 20:10 G	15899617.14	15899617.34	15899617.55	0.0089	0.0031
Venus	38820-03-10 09:07 G	15899842.71	15899842.88	15899843.08	0.0089	0.0046
Venus	38820-10-21 22:05 G	15900068.28	15900068.42	15900068.60	0.0089	0.0062
Venus	38821-06-04 11:17 G	15900293.88	15900293.97	15900294.10	0.0089	0.0076
Mercury	38839-11-16 06:29 G	15907032.76	15907032.77	15907032.81	0.0089	0.0087
Mercury	38840-02-12 07:55 G	15907120.78	15907120.83	15907120.89	0.0089	0.0080
Mercury	38840-05-10 09:22 G	15907208.82	15907208.89	15907208.97	0.0089	0.0072
Mercury	38840-08-06 10:34 G	15907296.86	15907296.94	15907297.03	0.0089	0.0065
Mercury	38840-11-02 11:46 G	15907384.90	15907384.99	15907385.10	0.0089	0.0058
Mercury	38841-01-29 13:12 G	15907472.94	15907473.05	15907473.16	0.0089	0.0050
Mercury	38841-04-27 14:24 G	15907560.99	15907561.10	15907561.22	0.0089	0.0043
Mercury	38841-07-24 15:36 G	15907649.04	15907649.15	15907649.28	0.0089	0.0036
Mars	38841-10-04 00:29 G	15907720.32	15907720.52	15907720.75	0.0089	0.0058
Mercury	38841-10-20 17:02 G	15907737.09	15907737.21	15907737.34	0.0089	0.0028
Mercury	38842-01-16 18:29 G	15907825.14	15907825.27	15907825.40	0.0089	0.0021
Mercury	38842-04-14 19:41 G	15907913.19	15907913.32	15907913.45	0.0089	0.0013
Mercury	38842-07-11 20:53 G	15908001.24	15908001.37	15908001.51	0.0089	0.0007
Mercury	38842-10-07 22:19 G	15908089.30	15908089.43	15908089.56	0.0089	0.0001
Mercury	38843-01-03 23:31 G	15908177.35	15908177.48	15908177.62	0.0089	0.0009
Mercury	38843-04-02 00:43 G	15908265.41	15908265.53	15908265.67	0.0089	0.0017

Mercury	38843-06-29 02:10 G	15908353.46	15908353.59	15908353.72	0.0089	0.0024
Mars	38843-08-28 13:26 G	15908413.78	15908414.06	15908414.35	0.0089	0.0010
Mercury	38843-09-25 03:22 G	15908441.52	15908441.64	15908441.77	0.0089	0.0031
Mercury	38843-12-22 04:48 G	15908529.58	15908529.70	15908529.82	0.0089	0.0039
Mercury	38844-03-19 06:14 G	15908617.64	15908617.76	15908617.87	0.0089	0.0046
Mercury	38844-06-15 07:12 G	15908705.70	15908705.80	15908705.92	0.0089	0.0054
Mercury	38844-09-11 08:38 G	15908793.77	15908793.86	15908793.96	0.0089	0.0061
Mercury	38844-12-08 09:50 G	15908881.84	15908881.91	15908882.00	0.0089	0.0069
Mercury	38845-03-06 11:17 G	15908969.91	15908969.97	15908970.04	0.0088	0.0076
Mercury	38845-06-02 12:29 G	15909057.99	15909058.02	15909058.07	0.0088	0.0084
Mars	38845-07-22 01:26 G	15909107.45	15909107.56	15909107.72	0.0088	0.0078
Jupiter	38861-05-04 21:07 G	15914872.87	15914873.38	15914873.95	0.0088	0.0020
Moon	38864-09-11 16:34 G	15916099.06	15916099.19	15916099.36	0.0088	0.0073
Earth	38864-09-11 19:41 G	15916099.19	15916099.32	15916099.48	0.0088	0.0073 *
Earth	38865-09-14 06:58 G	15916466.60	15916466.79	15916467.01	0.0088	0.0053
Moon	38865-09-14 10:05 G	15916466.74	15916466.92	15916467.15	0.0088	0.0053 *
Moon	38866-09-16 14:53 G	15916833.88	15916834.12	15916834.36	0.0088	0.0033
Earth	38866-09-16 18:00 G	15916834.03	15916834.25	15916834.51	0.0088	0.0033 *
Earth	38867-09-19 05:31 G	15917201.48	15917201.73	15917201.99	0.0088	0.0012
Moon	38867-09-19 09:07 G	15917201.62	15917201.88	15917202.14	0.0088	0.0012 *
Moon	38868-09-20 14:24 G	15917568.85	15917569.10	15917569.35	0.0088	0.0008
Earth	38868-09-20 17:02 G	15917568.95	15917569.21	15917569.47	0.0088	0.0008 *
Earth	38869-09-23 03:36 G	15917936.43	15917936.65	15917936.91	0.0088	0.0029
Moon	38869-09-23 06:00 G	15917936.51	15917936.75	15917937.01	0.0088	0.0030 *
Moon	38870-09-25 14:53 G	15918303.91	15918304.12	15918304.33	0.0088	0.0048
Earth	38870-09-25 14:53 G	15918303.92	15918304.12	15918304.35	0.0088	0.0049 *
Moon	38871-09-28 00:58 G	15918671.41	15918671.54	15918671.73	0.0088	0.0070
Earth	38871-09-28 02:10 G	15918671.44	15918671.59	15918671.76	0.0088	0.0069 *
Venus	38897-12-28 22:48 G	15928260.37	15928260.45	15928260.58	0.0088	0.0077
Venus	38898-08-11 12:14 G	15928485.86	15928486.01	15928486.17	0.0088	0.0062

Venus	38899-03-25 00:58 G	15928711.37	15928711.54	15928711.74	0.0088	0.0048
Venus	38899-11-05 14:10 G	15928936.89	15928937.09	15928937.30	0.0088	0.0033
Venus	38900-06-19 02:53 G	15929162.41	15929162.62	15929162.84	0.0088	0.0019
Venus	38901-01-30 16:05 G	15929387.94	15929388.17	15929388.39	0.0088	0.0004
Venus	38901-09-13 04:48 G	15929613.49	15929613.70	15929613.93	0.0088	0.0011
Venus	38902-04-26 17:46 G	15929839.03	15929839.24	15929839.46	0.0088	0.0025
Venus	38902-12-08 06:29 G	15930064.59	15930064.77	15930064.98	0.0088	0.0040
Venus	38903-07-21 19:26 G	15930290.14	15930290.31	15930290.49	0.0088	0.0054
Venus	38904-03-03 07:55 G	15930515.72	15930515.83	15930515.99	0.0088	0.0069
Venus	38904-10-14 21:07 G	15930741.33	15930741.38	15930741.47	0.0088	0.0084
Mercury	38924-04-21 23:02 G	15937870.39	15937870.46	15937870.55	0.0089	0.0081
Mercury	38924-07-19 02:38 G	15937958.50	15937958.61	15937958.74	0.0089	0.0070
Mercury	38924-10-15 06:29 G	15938046.63	15938046.77	15938046.92	0.0089	0.0059
Mercury	38925-01-11 10:05 G	15938134.76	15938134.92	15938135.09	0.0089	0.0048
Mercury	38925-04-09 13:41 G	15938222.90	15938223.07	15938223.26	0.0089	0.0037
Mars	38925-07-05 18:58 G	15938310.01	15938310.29	15938310.61	0.0089	0.0045
Mercury	38925-07-06 17:31 G	15938311.04	15938311.23	15938311.42	0.0089	0.0026
Mercury	38925-10-02 21:07 G	15938399.19	15938399.38	15938399.57	0.0089	0.0015
Mercury	38925-12-30 00:43 G	15938487.34	15938487.53	15938487.73	0.0089	0.0004
Mercury	38926-03-28 04:19 G	15938575.49	15938575.68	15938575.88	0.0089	0.0007
Mercury	38926-06-24 07:55 G	15938663.64	15938663.83	15938664.02	0.0089	0.0018
Mercury	38926-09-20 11:31 G	15938751.80	15938751.98	15938752.17	0.0089	0.0029
Mercury	38926-12-17 14:53 G	15938839.96	15938840.12	15938840.31	0.0089	0.0040
Mercury	38927-03-15 18:29 G	15938928.12	15938928.27	15938928.44	0.0089	0.0051
Mars	38927-06-02 06:58 G	15939006.50	15939006.79	15939007.12	0.0089	0.0039
Mercury	38927-06-11 22:19 G	15939016.29	15939016.43	15939016.57	0.0089	0.0061
Mercury	38927-09-08 01:41 G	15939104.47	15939104.57	15939104.69	0.0089	0.0072
Mercury	38927-12-05 05:02 G	15939192.66	15939192.71	15939192.79	0.0089	0.0083
Earth	38947-03-13 17:31 G	15946231.15	15946231.23	15946231.35	0.0089	0.0082
Moon	38947-03-13 20:53 G	15946231.27	15946231.37	15946231.52	0.0089	0.0078 *

Moon	38948-03-15 02:38 G	15946598.44	15946598.61	15946598.78	0.0089	0.0065
Earth	38948-03-15 05:31 G	15946598.56	15946598.73	15946598.94	0.0089	0.0061 *
Earth	38949-03-17 17:31 G	15946966.02	15946966.23	15946966.48	0.0089	0.0040
Moon	38949-03-17 19:55 G	15946966.09	15946966.33	15946966.58	0.0089	0.0035 *
Moon	38950-03-20 04:34 G	15947333.46	15947333.69	15947333.94	0.0089	0.0022
Earth	38950-03-20 06:00 G	15947333.51	15947333.75	15947334.01	0.0089	0.0018 *
Moon	38951-03-22 18:29 G	15947701.00	15947701.27	15947701.53	0.0089	0.0008
Earth	38951-03-22 18:14 G	15947701.01	15947701.26	15947701.52	0.0089	0.0004 *
Earth	38952-03-24 06:14 G	15948068.53	15948068.76	15948069.02	0.0089	0.0025
Moon	38952-03-24 07:41 G	15948068.59	15948068.82	15948069.07	0.0089	0.0021 *
Moon	38953-03-26 16:05 G	15948435.98	15948436.17	15948436.41	0.0090	0.0051
Earth	38953-03-26 18:14 G	15948436.06	15948436.26	15948436.50	0.0090	0.0047 *
Earth	38954-03-29 06:43 G	15948803.62	15948803.78	15948803.95	0.0090	0.0068
Moon	38954-03-29 09:36 G	15948803.74	15948803.90	15948804.09	0.0090	0.0064 *
Earth	38955-03-31 18:58 G	15949171.27	15949171.29	15949171.33	0.0090	0.0089
Venus	38979-07-05 11:31 G	15958032.91	15958032.98	15958033.11	0.0089	0.0080
Venus	38980-02-16 00:43 G	15958258.41	15958258.53	15958258.71	0.0089	0.0065
Venus	38980-09-28 14:10 G	15958483.92	15958484.09	15958484.29	0.0089	0.0049
Venus	38981-05-12 03:36 G	15958709.45	15958709.65	15958709.86	0.0089	0.0034
Venus	38981-12-23 16:48 G	15958934.98	15958935.20	15958935.41	0.0089	0.0019
Venus	38982-08-06 05:46 G	15959160.52	15959160.74	15959160.96	0.0089	0.0004
Venus	38983-03-19 18:58 G	15959386.08	15959386.29	15959386.51	0.0089	0.0011
Venus	38983-10-31 07:55 G	15959611.63	15959611.83	15959612.05	0.0089	0.0027
Venus	38984-06-12 20:53 G	15959837.19	15959837.37	15959837.58	0.0089	0.0042
Venus	38985-01-24 09:50 G	15960062.76	15960062.91	15960063.10	0.0089	0.0057
Venus	38985-09-06 23:02 G	15960288.34	15960288.46	15960288.61	0.0089	0.0071
Venus	38986-04-20 12:00 G	15960513.97	15960514.00	15960514.08	0.0089	0.0087

# 40TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 40th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	39004-08-14 06:43	G	15967203.74	15967203.78	15967203.83	0.0089	0.0083	
Mercury	39004-11-10 07:55	G	15967291.77	15967291.83	15967291.90	0.0089	0.0076	
Mercury	39005-02-06 09:07	G	15967379.81	15967379.88	15967379.97	0.0089	0.0069	
Mercury	39005-05-05 10:34	G	15967467.85	15967467.94	15967468.04	0.0089	0.0061	
Mars	39005-05-21 19:26	G	15967484.19	15967484.31	15967484.45	0.0089	0.0078	
Mercury	39005-08-01 11:46	G	15967555.89	15967555.99	15967556.10	0.0089	0.0054	
Mercury	39005-10-28 12:58	G	15967643.94	15967644.04	15967644.16	0.0089	0.0047	
Mercury	39006-01-24 14:24	G	15967731.99	15967732.10	15967732.22	0.0089	0.0039	
Mercury	39006-04-22 15:50	G	15967820.04	15967820.16	15967820.28	0.0089	0.0032	
Mercury	39006-07-19 17:02	G	15967908.09	15967908.21	15967908.34	0.0089	0.0024	
Mercury	39006-10-15 18:29	G	15967996.14	15967996.27	15967996.40	0.0089	0.0017	
Mercury	39007-01-11 19:41	G	15968084.19	15968084.32	15968084.45	0.0089	0.0009	
Mercury	39007-04-09 20:53	G	15968172.24	15968172.37	15968172.51	0.0089	0.0004	
Mars	39007-04-15 06:58	G	15968177.51	15968177.79	15968178.08	0.0089	0.0010	
Mercury	39007-07-06 22:19	G	15968260.30	15968260.43	15968260.56	0.0089	0.0005	
Mercury	39007-10-02 23:31	G	15968348.35	15968348.48	15968348.61	0.0089	0.0013	
Mercury	39007-12-30 00:43	G	15968436.41	15968436.53	15968436.67	0.0089	0.0021	
Mercury	39008-03-27 02:10	G	15968524.47	15968524.59	15968524.72	0.0089	0.0028	
Mercury	39008-06-23 03:22	G	15968612.52	15968612.64	15968612.77	0.0089	0.0035	
Mercury	39008-09-19 04:48	G	15968700.58	15968700.70	15968700.82	0.0089	0.0043	
Mercury	39008-12-16 06:14	G	15968788.65	15968788.76	15968788.87	0.0089	0.0050	



Mars	39009-03-08 19:41 G	15968871.12	15968871.32	15968871.55	0.0089	0.0058
Mercury	39009-03-14 07:12 G	15968876.71	15968876.80	15968876.91	0.0089	0.0058
Mercury	39009-06-10 08:38 G	15968964.78	15968964.86	15968964.96	0.0089	0.0065
Mercury	39009-09-06 09:50 G	15969052.85	15969052.91	15969053.00	0.0088	0.0073
Mercury	39009-12-03 11:17 G	15969140.92	15969140.97	15969141.03	0.0088	0.0080
Mercury	39010-03-01 12:29 G	15969229.01	15969229.02	15969229.05	0.0088	0.0088
Earth	39028-09-13 06:00 G	15975999.70	15975999.75	15975999.86	0.0088	0.0084
Moon	39029-09-15 14:10 G	15976366.93	15976367.09	15976367.31	0.0088	0.0059
Earth	39029-09-15 18:00 G	15976367.08	15976367.25	15976367.44	0.0088	0.0063 *
Earth	39030-09-18 05:02 G	15976734.50	15976734.71	15976734.95	0.0088	0.0043
Moon	39030-09-18 08:24 G	15976734.64	15976734.85	15976735.09	0.0088	0.0047 *
Moon	39031-09-20 14:10 G	15977101.86	15977102.09	15977102.35	0.0088	0.0018
Earth	39031-09-20 16:48 G	15977101.95	15977102.20	15977102.45	0.0088	0.0022 *
Earth	39032-09-22 04:05 G	15977469.41	15977469.67	15977469.93	0.0088	0.0002
Moon	39032-09-22 04:48 G	15977469.44	15977469.70	15977469.98	0.0088	0.0006 *
Moon	39033-09-24 14:53 G	15977836.88	15977837.12	15977837.36	0.0088	0.0023
Earth	39033-09-24 14:53 G	15977836.88	15977837.12	15977837.39	0.0088	0.0019 *
Moon	39034-09-27 00:29 G	15978204.29	15978204.52	15978204.78	0.0088	0.0035
Earth	39034-09-27 01:41 G	15978204.36	15978204.57	15978204.82	0.0088	0.0040 *
Earth	39035-09-29 12:43 G	15978571.87	15978572.03	15978572.25	0.0088	0.0060
Moon	39035-09-29 15:36 G	15978571.99	15978572.15	15978572.33	0.0088	0.0064 *
Moon	39036-09-30 20:53 G	15978939.26	15978939.37	15978939.53	0.0088	0.0076
Earth	39036-10-01 00:14 G	15978939.42	15978939.51	15978939.63	0.0088	0.0080 *
Venus	39062-04-03 10:34 G	15988254.88	15988254.94	15988255.05	0.0088	0.0081
Venus	39062-11-14 23:46 G	15988480.36	15988480.49	15988480.65	0.0088	0.0066
Venus	39063-06-28 12:29 G	15988705.86	15988706.02	15988706.21	0.0088	0.0052
Venus	39064-02-09 01:41 G	15988931.37	15988931.57	15988931.77	0.0088	0.0037
Venus	39064-09-21 14:24 G	15989156.90	15989157.10	15989157.33	0.0088	0.0023
Venus	39065-05-05 03:36 G	15989382.43	15989382.65	15989382.87	0.0088	0.0008
Venus	39065-12-16 16:34 G	15989607.97	15989608.19	15989608.41	0.0088	0.0006

Venus	39066-07-30 05:02 G	15989833.51	15989833.71	15989833.94	0.0088	0.0022
Venus	39067-03-12 18:14 G	15990059.06	15990059.26	15990059.47	0.0088	0.0035
Venus	39067-10-24 06:58 G	15990284.62	15990284.79	15990284.99	0.0088	0.0050
Venus	39068-06-05 19:55 G	15990510.19	15990510.33	15990510.49	0.0088	0.0064
Venus	39069-01-17 08:24 G	15990735.78	15990735.85	15990735.97	0.0088	0.0079
Mercury	39088-10-21 18:29 G	15997953.24	15997953.27	15997953.32	0.0089	0.0086
Mercury	39089-01-17 22:19 G	15998041.33	15998041.43	15998041.54	0.0089	0.0075
Mars	39089-02-17 06:29 G	15998071.58	15998071.77	15998072.01	0.0089	0.0070
Mercury	39089-04-16 01:55 G	15998129.45	15998129.58	15998129.72	0.0089	0.0064
Mercury	39089-07-13 05:31 G	15998217.58	15998217.73	15998217.89	0.0089	0.0053
Mercury	39089-10-09 09:22 G	15998305.72	15998305.89	15998306.06	0.0089	0.0042
Mercury	39090-01-05 12:58 G	15998393.86	15998394.04	15998394.23	0.0089	0.0031
Mercury	39090-04-03 16:34 G	15998482.00	15998482.19	15998482.38	0.0089	0.0020
Mercury	39090-06-30 20:24 G	15998570.15	15998570.35	15998570.54	0.0089	0.0009
Mercury	39090-09-27 00:00 G	15998658.30	15998658.50	15998658.69	0.0089	0.0002
Mercury	39090-12-24 03:36 G	15998746.46	15998746.65	15998746.84	0.0089	0.0013
Mars	39091-01-14 19:12 G	15998767.97	15998768.30	15998768.66	0.0089	0.0015
Mercury	39091-03-22 06:58 G	15998834.61	15998834.79	15998834.99	0.0089	0.0024
Mercury	39091-06-18 10:34 G	15998922.77	15998922.94	15998923.13	0.0089	0.0035
Mercury	39091-09-14 13:55 G	15999010.93	15999011.08	15999011.26	0.0089	0.0046
Mercury	39091-12-11 17:31 G	15999099.10	15999099.23	15999099.39	0.0089	0.0057
Mercury	39092-03-08 20:53 G	15999187.27	15999187.37	15999187.52	0.0089	0.0068
Mercury	39092-06-05 00:58 G	15999275.46	15999275.54	15999275.63	0.0089	0.0078
Earth	39112-03-16 16:19 G	16006499.05	16006499.18	16006499.36	0.0089	0.0072
Moon	39112-03-16 18:43 G	16006499.13	16006499.28	16006499.45	0.0089	0.0070 *
Moon	39113-03-19 04:05 G	16006866.49	16006866.67	16006866.89	0.0089	0.0051
Earth	39113-03-19 04:48 G	16006866.49	16006866.70	16006866.91	0.0089	0.0050 *
Moon	39114-03-21 16:05 G	16007233.93	16007234.17	16007234.43	0.0089	0.0027
Earth	39114-03-21 16:34 G	16007233.96	16007234.19	16007234.45	0.0089	0.0029 *
Earth	39115-03-24 05:02 G	16007601.45	16007601.71	16007601.96	0.0089	0.0007

Moon	39115-03-24 06:29 G	16007601.53	16007601.77	16007602.02	0.0089	0.0009 *
Moon	39116-03-25 13:55 G	16007968.83	16007969.08	16007969.35	0.0089	0.0015
Earth	39116-03-25 17:02 G	16007968.96	16007969.21	16007969.47	0.0089	0.0015 *
Earth	39117-03-28 05:02 G	16008336.49	16008336.71	16008336.96	0.0089	0.0037
Moon	39117-03-28 08:24 G	16008336.63	16008336.85	16008337.09	0.0089	0.0035 *
Moon	39118-03-30 13:41 G	16008703.90	16008704.07	16008704.28	0.0089	0.0060
Earth	39118-03-30 17:31 G	16008704.05	16008704.23	16008704.44	0.0089	0.0058 *
Earth	39119-04-02 05:17 G	16009071.63	16009071.72	16009071.87	0.0090	0.0080
Moon	39119-04-02 08:53 G	16009071.76	16009071.87	16009072.01	0.0090	0.0078 *
Venus	39143-10-08 23:02 G	16018027.41	16018027.46	16018027.57	0.0089	0.0084
Venus	39144-05-21 12:14 G	16018252.90	16018253.01	16018253.18	0.0089	0.0069
Venus	39145-01-02 01:41 G	16018478.41	16018478.57	16018478.76	0.0089	0.0053
Venus	39145-08-15 14:53 G	16018703.93	16018704.12	16018704.33	0.0089	0.0038
Venus	39146-03-29 04:19 G	16018929.48	16018929.68	16018929.90	0.0089	0.0023
Venus	39146-11-09 17:31 G	16019155.02	16019155.23	16019155.45	0.0089	0.0008
Venus	39147-06-23 06:43 G	16019380.56	16019380.78	16019381.00	0.0089	0.0007
Venus	39148-02-03 19:26 G	16019606.11	16019606.31	16019606.54	0.0089	0.0023
Venus	39148-09-16 08:53 G	16019831.67	16019831.87	16019832.07	0.0089	0.0037
Venus	39149-04-29 22:05 G	16020057.24	16020057.42	16020057.60	0.0089	0.0052
Venus	39149-12-11 11:02 G	16020282.82	16020282.96	16020283.11	0.0089	0.0067
Venus	39150-07-24 23:46 G	16020508.42	16020508.49	16020508.60	0.0089	0.0082
Mercury	39169-02-13 05:17 G	16027286.71	16027286.72	16027286.76	0.0089	0.0087
Mercury	39169-05-12 06:43 G	16027374.73	16027374.78	16027374.84	0.0089	0.0079
Mercury	39169-08-08 07:55 G	16027462.76	16027462.83	16027462.91	0.0089	0.0072
Mercury	39169-11-04 09:07 G	16027550.80	16027550.88	16027550.98	0.0089	0.0065
Mercury	39170-01-31 10:48 G	16027638.85	16027638.95	16027639.05	0.0089	0.0057
Mercury	39170-04-29 11:46 G	16027726.89	16027726.99	16027727.11	0.0089	0.0050
Mercury	39170-07-26 12:58 G	16027814.94	16027815.04	16027815.17	0.0089	0.0043
Mercury	39170-10-22 14:38 G	16027902.99	16027903.11	16027903.23	0.0089	0.0035
Mars	39170-11-30 01:26 G	16027941.31	16027941.56	16027941.85	0.0089	0.0031

Mercury	39171-01-18 15:50 G	16027991.03	16027991.16	16027991.29	0.0089	0.0028
Mercury	39171-04-16 17:02 G	16028079.09	16028079.21	16028079.34	0.0089	0.0020
Mercury	39171-07-13 18:29 G	16028167.14	16028167.27	16028167.40	0.0089	0.0013
Mercury	39171-10-09 19:41 G	16028255.19	16028255.32	16028255.45	0.0089	0.0005
Mercury	39172-01-05 20:53 G	16028343.24	16028343.37	16028343.51	0.0089	0.0004
Mercury	39172-04-02 22:19 G	16028431.30	16028431.43	16028431.56	0.0089	0.0009
Mercury	39172-06-29 23:31 G	16028519.35	16028519.48	16028519.61	0.0089	0.0017
Mercury	39172-09-26 00:43 G	16028607.41	16028607.53	16028607.67	0.0089	0.0025
Mars	39172-10-23 12:14 G	16028634.78	16028635.01	16028635.30	0.0089	0.0039
Mercury	39172-12-23 02:10 G	16028695.47	16028695.59	16028695.72	0.0089	0.0032
Mercury	39173-03-21 03:22 G	16028783.53	16028783.64	16028783.77	0.0089	0.0039
Mercury	39173-06-17 04:48 G	16028871.59	16028871.70	16028871.81	0.0089	0.0047
Mercury	39173-09-13 05:46 G	16028959.65	16028959.74	16028959.86	0.0089	0.0055
Mercury	39173-12-10 07:12 G	16029047.72	16029047.80	16029047.91	0.0089	0.0062
Mercury	39174-03-08 08:38 G	16029135.78	16029135.86	16029135.95	0.0089	0.0069
Mercury	39174-06-04 09:50 G	16029223.86	16029223.91	16029223.99	0.0089	0.0077
Mercury	39174-08-31 11:17 G	16029311.94	16029311.97	16029312.02	0.0088	0.0084
Earth	39193-09-16 04:19 G	16036267.57	16036267.68	16036267.86	0.0088	0.0074
Moon	39193-09-16 07:12 G	16036267.67	16036267.80	16036267.97	0.0088	0.0072 *
Moon	39194-09-18 14:24 G	16036634.92	16036635.10	16036635.32	0.0088	0.0054
Earth	39194-09-18 16:19 G	16036634.99	16036635.18	16036635.40	0.0088	0.0053 *
Earth	39195-09-21 03:50 G	16037002.43	16037002.66	16037002.91	0.0088	0.0032
Moon	39195-09-21 04:19 G	16037002.45	16037002.68	16037002.95	0.0088	0.0032 *
Earth	39196-09-22 15:07 G	16037369.89	16037370.13	16037370.40	0.0088	0.0012
Moon	39196-09-22 16:19 G	16037369.94	16037370.18	16037370.43	0.0088	0.0013 *
Moon	39197-09-25 00:43 G	16037737.27	16037737.53	16037737.80	0.0088	0.0010
Earth	39197-09-25 02:38 G	16037737.35	16037737.61	16037737.87	0.0088	0.0009 *
Earth	39198-09-27 13:26 G	16038104.83	16038105.06	16038105.32	0.0088	0.0030
Moon	39198-09-27 16:05 G	16038104.95	16038105.17	16038105.43	0.0088	0.0030 *
Moon	39199-09-29 20:53 G	16038472.18	16038472.37	16038472.60	0.0088	0.0052

Earth	39199-09-30 00:29 G	16038472.33	16038472.52	16038472.75	0.0088	0.0051	*
Earth	39200-10-01 11:31 G	16038839.85	16038839.98	16038840.15	0.0088	0.0071	
Moon	39200-10-01 14:53 G	16038839.99	16038840.12	16038840.29	0.0088	0.0071	*
Venus	39226-07-06 22:34 G	16048249.40	16048249.44	16048249.52	0.0088	0.0084	
Venus	39227-02-17 11:17 G	16048474.86	16048474.97	16048475.13	0.0088	0.0070	
Venus	39227-10-01 00:43 G	16048700.36	16048700.53	16048700.70	0.0088	0.0055	
Venus	39228-05-13 13:26 G	16048925.87	16048926.06	16048926.26	0.0088	0.0041	
Venus	39228-12-25 02:10 G	16049151.39	16049151.59	16049151.81	0.0088	0.0027	
Venus	39229-08-07 15:22 G	16049376.92	16049377.14	16049377.36	0.0088	0.0012	
Venus	39230-03-21 04:19 G	16049602.46	16049602.68	16049602.90	0.0088	0.0002	
Venus	39230-11-01 17:02 G	16049828.00	16049828.21	16049828.43	0.0088	0.0017	
Venus	39231-06-15 06:00 G	16050053.55	16050053.75	16050053.96	0.0088	0.0031	
Venus	39232-01-26 18:29 G	16050279.10	16050279.27	16050279.48	0.0088	0.0046	
Venus	39232-09-08 07:41 G	16050504.68	16050504.82	16050505.00	0.0088	0.0060	
Venus	39233-04-21 20:53 G	16050730.26	16050730.37	16050730.49	0.0088	0.0074	
Mercury	39253-07-19 17:17 G	16058124.16	16058124.22	16058124.32	0.0089	0.0081	
Mercury	39253-10-15 20:53 G	16058212.27	16058212.37	16058212.51	0.0089	0.0070	
Mercury	39254-01-12 00:43 G	16058300.40	16058300.53	16058300.69	0.0089	0.0059	
Mercury	39254-04-10 04:19 G	16058388.53	16058388.68	16058388.86	0.0089	0.0048	
Mercury	39254-07-07 08:10 G	16058476.67	16058476.84	16058477.03	0.0089	0.0037	
Mars	39254-08-29 06:43 G	16058529.44	16058529.78	16058530.12	0.0089	0.0011	
Mercury	39254-10-03 11:46 G	16058564.81	16058564.99	16058565.19	0.0089	0.0026	
Mercury	39254-12-30 15:36 G	16058652.96	16058653.15	16058653.35	0.0089	0.0014	
Mercury	39255-03-28 19:12 G	16058741.11	16058741.30	16058741.50	0.0089	0.0004	
Mercury	39255-06-24 22:48 G	16058829.26	16058829.45	16058829.65	0.0089	0.0008	
Mercury	39255-09-21 02:24 G	16058917.42	16058917.60	16058917.80	0.0089	0.0019	
Mercury	39255-12-18 06:00 G	16059005.57	16059005.75	16059005.94	0.0089	0.0030	
Mercury	39256-03-15 09:22 G	16059093.73	16059093.89	16059094.08	0.0089	0.0041	
Mercury	39256-06-11 12:58 G	16059181.90	16059182.04	16059182.21	0.0089	0.0052	
Mars	39256-07-25 18:14 G	16059226.10	16059226.26	16059226.49	0.0089	0.0074	

Mercury	39256-09-07 17:02 G	16059270.07	16059270.21	16059270.34	0.0089	0.0062
Mercury	39256-12-04 20:24 G	16059358.25	16059358.35	16059358.46	0.0089	0.0073
Mercury	39257-03-02 23:46 G	16059446.44	16059446.49	16059446.56	0.0089	0.0084
Moon	39276-03-16 03:36 G	16066399.54	16066399.65	16066399.79	0.0089	0.0078
Earth	39276-03-16 04:05 G	16066399.57	16066399.67	16066399.77	0.0089	0.0082 *
Moon	39277-03-18 14:24 G	16066766.92	16066767.10	16066767.29	0.0089	0.0065
Earth	39277-03-18 15:36 G	16066766.98	16066767.15	16066767.36	0.0089	0.0061 *
Earth	39278-03-21 03:22 G	16067134.44	16067134.64	16067134.90	0.0089	0.0040
Moon	39278-03-21 06:14 G	16067134.53	16067134.76	16067134.99	0.0089	0.0035 *
Moon	39279-03-23 12:29 G	16067501.78	16067502.02	16067502.29	0.0089	0.0023
Earth	39279-03-23 15:36 G	16067501.91	16067502.15	16067502.41	0.0089	0.0018 *
Earth	39280-03-25 03:50 G	16067869.41	16067869.66	16067869.92	0.0089	0.0004
Moon	39280-03-25 07:26 G	16067869.56	16067869.81	16067870.07	0.0089	0.0009 *
Moon	39281-03-27 12:29 G	16068236.79	16068237.02	16068237.28	0.0089	0.0022
Earth	39281-03-27 16:05 G	16068236.93	16068237.17	16068237.42	0.0089	0.0026 *
Earth	39282-03-30 03:50 G	16068604.46	16068604.66	16068604.89	0.0090	0.0048
Moon	39282-03-30 07:26 G	16068604.60	16068604.81	16068605.02	0.0090	0.0052 *
Moon	39283-04-01 14:10 G	16068971.93	16068972.09	16068972.27	0.0090	0.0065
Earth	39283-04-01 15:50 G	16068972.03	16068972.16	16068972.35	0.0090	0.0070 *
Venus	39308-01-11 11:17 G	16078021.92	16078021.97	16078022.02	0.0089	0.0087
Venus	39308-08-24 00:00 G	16078247.39	16078247.50	16078247.65	0.0089	0.0072
Venus	39309-04-06 13:26 G	16078472.91	16078473.06	16078473.24	0.0089	0.0057
Venus	39309-11-18 02:38 G	16078698.43	16078698.61	16078698.82	0.0089	0.0043
Venus	39310-07-01 15:50 G	16078923.97	16078924.16	16078924.38	0.0089	0.0028
Venus	39311-02-12 05:17 G	16079149.51	16079149.72	16079149.94	0.0089	0.0012
Venus	39311-09-25 18:29 G	16079375.05	16079375.27	16079375.49	0.0089	0.0003
Venus	39312-05-08 07:41 G	16079600.60	16079600.82	16079601.03	0.0089	0.0018
Venus	39312-12-19 20:38 G	16079826.16	16079826.36	16079826.57	0.0089	0.0033
Venus	39313-08-02 09:36 G	16080051.72	16080051.90	16080052.10	0.0089	0.0047
Venus	39314-03-15 22:34 G	16080277.30	16080277.44	16080277.62	0.0089	0.0063

Venus	39314-10-27 11:31 G	16080502.90	16080502.98	16080503.11	0.0089	0.0077
Mercury	39333-11-11 05:17 G	16087457.69	16087457.72	16087457.78	0.0089	0.0083
Mercury	39334-02-07 06:29 G	16087545.72	16087545.77	16087545.85	0.0089	0.0076
Mercury	39334-05-06 07:55 G	16087633.76	16087633.83	16087633.92	0.0089	0.0068
Mars	39334-07-16 21:22 G	16087705.17	16087705.39	16087705.64	0.0089	0.0051
Mercury	39334-08-02 09:07 G	16087721.80	16087721.88	16087721.99	0.0089	0.0061
Mercury	39334-10-29 10:19 G	16087809.84	16087809.93	16087810.05	0.0089	0.0054
Mercury	39335-01-25 12:00 G	16087897.89	16087898.00	16087898.11	0.0089	0.0046
Mercury	39335-04-23 13:12 G	16087985.93	16087986.05	16087986.17	0.0089	0.0038
Mercury	39335-07-20 14:38 G	16088073.98	16088074.11	16088074.23	0.0089	0.0031
Mercury	39335-10-16 15:50 G	16088162.03	16088162.16	16088162.29	0.0089	0.0024
Mercury	39336-01-12 17:02 G	16088250.08	16088250.21	16088250.34	0.0089	0.0016
Mercury	39336-04-09 18:29 G	16088338.14	16088338.27	16088338.40	0.0089	0.0009
Mars	39336-06-09 09:07 G	16088398.60	16088398.88	16088399.16	0.0089	0.0018
Mercury	39336-07-06 19:41 G	16088426.19	16088426.32	16088426.46	0.0089	0.0002
Mercury	39336-10-02 21:07 G	16088514.24	16088514.38	16088514.51	0.0089	0.0006
Mercury	39336-12-29 22:19 G	16088602.30	16088602.43	16088602.56	0.0089	0.0014
Mercury	39337-03-27 23:31 G	16088690.36	16088690.48	16088690.61	0.0089	0.0021
Mercury	39337-06-24 00:43 G	16088778.41	16088778.53	16088778.66	0.0089	0.0029
Mercury	39337-09-20 02:10 G	16088866.47	16088866.59	16088866.72	0.0089	0.0036
Mercury	39337-12-17 03:22 G	16088954.53	16088954.64	16088954.76	0.0089	0.0044
Mercury	39338-03-15 04:48 G	16089042.59	16089042.70	16089042.81	0.0089	0.0051
Mars	39338-05-03 19:55 G	16089092.29	16089092.33	16089092.39	0.0089	0.0087
Mercury	39338-06-11 06:00 G	16089130.66	16089130.75	16089130.86	0.0089	0.0058
Mercury	39338-09-07 07:26 G	16089218.73	16089218.81	16089218.90	0.0089	0.0066
Mercury	39338-12-04 08:38 G	16089306.80	16089306.86	16089306.94	0.0088	0.0073
Mercury	39339-03-02 09:50 G	16089394.87	16089394.91	16089394.98	0.0088	0.0081
Mercury	39339-05-29 11:17 G	16089482.97	16089482.97	16089482.99	0.0088	0.0088
Earth	39357-09-16 15:07 G	16096168.08	16096168.13	16096168.23	0.0088	0.0084
Moon	39358-09-19 03:07 G	16096535.43	16096535.63	16096535.82	0.0088	0.0059

Earth	39358-09-19 03:07 G	16096535.46	16096535.63	16096535.81	0.0088	0.0063	*
Earth	39359-09-21 14:10 G	16096902.89	16096903.09	16096903.34	0.0088	0.0043	
Moon	39359-09-21 15:22 G	16096902.94	16096903.14	16096903.37	0.0088	0.0047	*
Moon	39360-09-22 23:02 G	16097270.21	16097270.46	16097270.73	0.0088	0.0018	
Earth	39360-09-23 01:55 G	16097270.34	16097270.58	16097270.84	0.0088	0.0022	*
Earth	39361-09-25 13:26 G	16097637.80	16097638.06	16097638.32	0.0088	0.0001	
Moon	39361-09-25 16:34 G	16097637.93	16097638.19	16097638.44	0.0088	0.0005	*
Moon	39362-09-27 20:53 G	16098005.14	16098005.37	16098005.64	0.0088	0.0025	
Earth	39362-09-28 00:43 G	16098005.29	16098005.53	16098005.79	0.0088	0.0020	*
Earth	39363-09-30 11:31 G	16098372.77	16098372.98	16098373.23	0.0088	0.0041	
Moon	39363-09-30 15:22 G	16098372.91	16098373.14	16098373.39	0.0088	0.0036	*
Moon	39364-10-01 19:55 G	16098740.18	16098740.33	16098740.52	0.0088	0.0066	
Earth	39364-10-01 23:17 G	16098740.29	16098740.47	16098740.65	0.0088	0.0061	*
Earth	39365-10-04 09:50 G	16099107.84	16099107.91	16099108.02	0.0088	0.0082	
Moon	39365-10-04 12:43 G	16099107.91	16099108.03	16099108.16	0.0088	0.0077	*
Venus	39390-10-09 10:19 G	16108243.93	16108243.93	16108243.97	0.0088	0.0088	
Venus	39391-05-22 23:31 G	16108469.37	16108469.48	16108469.61	0.0088	0.0073	
Venus	39392-01-03 12:14 G	16108694.86	16108695.01	16108695.18	0.0088	0.0059	
Venus	39392-08-16 00:58 G	16108920.36	16108920.54	16108920.74	0.0088	0.0045	
Venus	39393-03-29 13:55 G	16109145.88	16109146.08	16109146.30	0.0088	0.0031	
Venus	39393-11-10 02:53 G	16109371.41	16109371.62	16109371.84	0.0088	0.0016	
Venus	39394-06-23 15:50 G	16109596.94	16109597.16	16109597.38	0.0088	0.0002	
Venus	39395-02-04 04:34 G	16109822.47	16109822.69	16109822.91	0.0088	0.0012	
Venus	39395-09-17 17:31 G	16110048.03	16110048.23	16110048.45	0.0088	0.0027	
Venus	39396-04-30 06:14 G	16110273.58	16110273.76	16110273.97	0.0088	0.0042	
Venus	39396-12-11 19:26 G	16110499.14	16110499.31	16110499.48	0.0088	0.0055	
Venus	39397-07-25 07:55 G	16110724.72	16110724.83	16110724.98	0.0088	0.0070	
Venus	39398-03-07 20:53 G	16110950.33	16110950.37	16110950.45	0.0088	0.0084	
Mercury	39418-01-19 12:43 G	16118207.00	16118207.03	16118207.10	0.0089	0.0086	
Mars	39418-04-13 16:48 G	16118290.91	16118291.20	16118291.54	0.0089	0.0037	



Mercury	39418-04-17 16:19 G	16118295.10	16118295.18	16118295.31	0.0089	0.0075
Mercury	39418-07-14 20:10 G	16118383.22	16118383.34	16118383.49	0.0089	0.0064
Mercury	39418-10-10 23:46 G	16118471.35	16118471.49	16118471.66	0.0089	0.0053
Mercury	39419-01-07 03:22 G	16118559.49	16118559.64	16118559.83	0.0089	0.0042
Mercury	39419-04-05 07:12 G	16118647.63	16118647.80	16118647.99	0.0089	0.0031
Mercury	39419-07-02 10:48 G	16118735.77	16118735.95	16118736.15	0.0089	0.0020
Mercury	39419-09-28 14:38 G	16118823.92	16118824.11	16118824.31	0.0089	0.0009
Mercury	39419-12-25 18:14 G	16118912.07	16118912.26	16118912.46	0.0089	0.0004
Mars	39420-03-10 05:46 G	16118987.48	16118987.74	16118988.06	0.0089	0.0049
Mercury	39420-03-22 21:50 G	16119000.22	16119000.41	16119000.61	0.0089	0.0014
Mercury	39420-06-19 01:26 G	16119088.38	16119088.56	16119088.75	0.0089	0.0025
Mercury	39420-09-15 04:48 G	16119176.54	16119176.70	16119176.89	0.0089	0.0036
Mercury	39420-12-12 08:24 G	16119264.70	16119264.85	16119265.03	0.0089	0.0047
Mercury	39421-03-10 12:29 G	16119352.87	16119353.02	16119353.16	0.0089	0.0057
Mercury	39421-06-06 15:50 G	16119441.04	16119441.16	16119441.29	0.0089	0.0068
Mercury	39421-09-02 19:12 G	16119529.23	16119529.30	16119529.40	0.0089	0.0079
Jupiter	39436-09-16 15:50 G	16125022.06	16125022.16	16125022.38	0.0089	0.0086
Earth	39441-03-20 02:38 G	16126667.48	16126667.61	16126667.79	0.0089	0.0072
Moon	39441-03-20 06:00 G	16126667.61	16126667.75	16126667.90	0.0089	0.0072 *
Moon	39442-03-22 11:17 G	16127034.77	16127034.97	16127035.20	0.0089	0.0049
Earth	39442-03-22 14:53 G	16127034.92	16127035.12	16127035.34	0.0089	0.0050 *
Earth	39443-03-25 02:38 G	16127402.38	16127402.61	16127402.87	0.0089	0.0028
Moon	39443-03-25 06:14 G	16127402.53	16127402.76	16127403.02	0.0089	0.0028 *
Moon	39444-03-26 11:31 G	16127769.73	16127769.98	16127770.24	0.0089	0.0006
Earth	39444-03-26 15:07 G	16127769.87	16127770.13	16127770.39	0.0089	0.0006 *
Earth	39445-03-29 02:53 G	16128137.37	16128137.62	16128137.88	0.0089	0.0016
Moon	39445-03-29 05:17 G	16128137.47	16128137.72	16128137.99	0.0089	0.0016 *
Moon	39446-03-31 12:58 G	16128504.82	16128505.04	16128505.28	0.0089	0.0037
Earth	39446-03-31 14:53 G	16128504.90	16128505.12	16128505.36	0.0089	0.0038 *
Earth	39447-04-03 02:38 G	16128872.44	16128872.61	16128872.83	0.0090	0.0060

Moon	39447-04-03 03:07 G	16128872.46	16128872.63	16128872.85	0.0090	0.0060 *
Earth	39448-04-04 15:22 G	16129240.04	16129240.14	16129240.25	0.0090	0.0081
Moon	39448-04-04 15:36 G	16129240.08	16129240.15	16129240.28	0.0090	0.0082 *
Venus	39472-11-26 11:31 G	16138241.89	16138241.98	16138242.11	0.0089	0.0076
Venus	39473-07-10 00:43 G	16138467.39	16138467.53	16138467.71	0.0089	0.0062
Venus	39474-02-20 14:10 G	16138692.91	16138693.09	16138693.29	0.0089	0.0047
Venus	39474-10-04 03:36 G	16138918.45	16138918.65	16138918.86	0.0089	0.0031
Venus	39475-05-17 16:48 G	16139143.99	16139144.20	16139144.42	0.0089	0.0017
Venus	39475-12-29 06:00 G	16139369.53	16139369.75	16139369.97	0.0089	0.0002
Venus	39476-08-10 18:58 G	16139595.08	16139595.29	16139595.52	0.0089	0.0014
Venus	39477-03-24 08:10 G	16139820.65	16139820.84	16139821.06	0.0089	0.0029
Venus	39477-11-04 21:36 G	16140046.21	16140046.40	16140046.59	0.0089	0.0043
Venus	39478-06-18 10:34 G	16140271.78	16140271.94	16140272.11	0.0089	0.0058
Venus	39479-01-29 23:17 G	16140497.36	16140497.47	16140497.62	0.0089	0.0073
Venus	39479-09-12 12:14 G	16140722.99	16140723.01	16140723.08	0.0089	0.0088
Mars	39498-03-02 15:36 G	16147468.99	16147469.15	16147469.32	0.0089	0.0072
Mercury	39498-05-13 03:50 G	16147540.65	16147540.66	16147540.70	0.0089	0.0087
Mercury	39498-08-09 05:31 G	16147628.67	16147628.73	16147628.79	0.0089	0.0079
Mercury	39498-11-05 06:29 G	16147716.71	16147716.77	16147716.86	0.0089	0.0072
Mercury	39499-02-01 07:41 G	16147804.75	16147804.82	16147804.92	0.0089	0.0065
Mercury	39499-04-30 09:22 G	16147892.79	16147892.89	16147892.99	0.0089	0.0057
Mercury	39499-07-27 10:34 G	16147980.83	16147980.94	16147981.05	0.0089	0.0050
Mercury	39499-10-23 11:46 G	16148068.88	16148068.99	16148069.11	0.0089	0.0042
Mercury	39500-01-19 13:12 G	16148156.93	16148157.05	16148157.17	0.0089	0.0035
Mars	39500-01-25 02:53 G	16148162.34	16148162.62	16148162.91	0.0089	0.0003
Mercury	39500-04-17 14:24 G	16148244.98	16148245.10	16148245.23	0.0089	0.0027
Mercury	39500-07-14 15:50 G	16148333.03	16148333.16	16148333.29	0.0089	0.0020
Mercury	39500-10-10 17:02 G	16148421.08	16148421.21	16148421.34	0.0089	0.0013
Mercury	39501-01-06 18:14 G	16148509.13	16148509.26	16148509.40	0.0089	0.0006
Mercury	39501-04-04 19:41 G	16148597.19	16148597.32	16148597.45	0.0089	0.0002

Mercury	39501-07-01 20:53 G	16148685.24	16148685.37	16148685.50	0.0089	0.0010
Mercury	39501-09-27 22:05 G	16148773.30	16148773.42	16148773.56	0.0089	0.0018
Mars	39501-12-19 13:55 G	16148855.93	16148856.08	16148856.31	0.0089	0.0067
Mercury	39501-12-24 23:31 G	16148861.35	16148861.48	16148861.61	0.0089	0.0025
Mercury	39502-03-23 00:43 G	16148949.41	16148949.53	16148949.66	0.0089	0.0032
Mercury	39502-06-19 02:10 G	16149037.47	16149037.59	16149037.71	0.0089	0.0040
Mercury	39502-09-15 03:22 G	16149125.53	16149125.64	16149125.76	0.0089	0.0047
Mercury	39502-12-12 04:34 G	16149213.60	16149213.69	16149213.80	0.0089	0.0055
Mercury	39503-03-10 06:14 G	16149301.66	16149301.76	16149301.85	0.0088	0.0062
Mercury	39503-06-06 07:12 G	16149389.73	16149389.80	16149389.89	0.0088	0.0070
Mercury	39503-09-02 08:38 G	16149477.80	16149477.86	16149477.93	0.0088	0.0077
Mercury	39503-11-29 09:50 G	16149565.88	16149565.91	16149565.96	0.0088	0.0085
Earth	39522-09-20 13:26 G	16156435.95	16156436.06	16156436.23	0.0088	0.0074
Moon	39522-09-20 15:50 G	16156436.03	16156436.16	16156436.32	0.0088	0.0071 *
Moon	39523-09-22 22:19 G	16156803.24	16156803.43	16156803.65	0.0088	0.0055
Earth	39523-09-23 00:58 G	16156803.35	16156803.54	16156803.76	0.0088	0.0053 *
Earth	39524-09-24 12:29 G	16157170.79	16157171.02	16157171.27	0.0088	0.0032
Moon	39524-09-24 16:05 G	16157170.94	16157171.17	16157171.42	0.0088	0.0030 *
Moon	39525-09-26 20:38 G	16157538.11	16157538.36	16157538.62	0.0088	0.0014
Earth	39525-09-27 00:14 G	16157538.25	16157538.51	16157538.77	0.0088	0.0011 *
Earth	39526-09-29 11:31 G	16157905.72	16157905.98	16157906.24	0.0088	0.0010
Moon	39526-09-29 15:07 G	16157905.87	16157906.13	16157906.39	0.0088	0.0011 *
Moon	39527-10-01 20:10 G	16158273.11	16158273.34	16158273.59	0.0088	0.0029
Earth	39527-10-01 22:48 G	16158273.21	16158273.45	16158273.70	0.0088	0.0031 *
Earth	39528-10-03 09:36 G	16158640.71	16158640.90	16158641.13	0.0088	0.0052
Moon	39528-10-03 11:31 G	16158640.77	16158640.98	16158641.20	0.0088	0.0053 *
Moon	39529-10-05 19:55 G	16159008.22	16159008.33	16159008.50	0.0088	0.0072
Earth	39529-10-05 20:38 G	16159008.25	16159008.36	16159008.53	0.0088	0.0073 *
Venus	39555-08-26 11:02 G	16168463.88	16168463.96	16168464.09	0.0088	0.0077
Venus	39556-04-07 23:46 G	16168689.36	16168689.49	16168689.67	0.0088	0.0063

Venus	39556-11-19 12:43 G	16168914.87	16168915.03	16168915.23	0.0088	0.0049
Venus	39557-07-03 01:55 G	16169140.38	16169140.58	16169140.78	0.0088	0.0034
Venus	39558-02-13 14:38 G	16169365.90	16169366.11	16169366.33	0.0088	0.0020
Venus	39558-09-27 03:36 G	16169591.43	16169591.65	16169591.87	0.0088	0.0006
Venus	39559-05-10 16:34 G	16169816.97	16169817.19	16169817.41	0.0088	0.0008
Venus	39559-12-22 05:17 G	16170042.51	16170042.72	16170042.94	0.0088	0.0023
Venus	39560-08-03 17:46 G	16170268.06	16170268.24	16170268.46	0.0088	0.0037
Venus	39561-03-17 06:43 G	16170493.61	16170493.78	16170493.97	0.0088	0.0051
Venus	39561-10-28 19:55 G	16170719.19	16170719.33	16170719.48	0.0088	0.0065
Venus	39562-06-11 08:10 G	16170944.78	16170944.84	16170944.96	0.0088	0.0081
Mars	39581-11-26 02:24 G	16178052.39	16178052.60	16178052.88	0.0089	0.0063
Mercury	39582-10-17 11:46 G	16178377.93	16178377.99	16178378.09	0.0089	0.0080
Mercury	39583-01-13 15:36 G	16178466.04	16178466.15	16178466.28	0.0089	0.0069
Mercury	39583-04-11 19:12 G	16178554.17	16178554.30	16178554.46	0.0089	0.0058
Mercury	39583-07-08 22:48 G	16178642.30	16178642.45	16178642.63	0.0089	0.0047
Mercury	39583-10-05 02:38 G	16178730.44	16178730.61	16178730.80	0.0089	0.0036
Mars	39583-10-23 16:34 G	16178748.87	16178749.19	16178749.54	0.0089	0.0023
Mercury	39584-01-01 06:14 G	16178818.58	16178818.76	16178818.96	0.0089	0.0025
Mercury	39584-03-29 10:05 G	16178906.73	16178906.92	16178907.12	0.0089	0.0014
Mercury	39584-06-25 13:41 G	16178994.88	16178995.07	16178995.27	0.0089	0.0003
Mercury	39584-09-21 17:17 G	16179083.03	16179083.22	16179083.42	0.0089	0.0009
Mercury	39584-12-18 20:53 G	16179171.19	16179171.37	16179171.57	0.0089	0.0020
Mercury	39585-03-17 00:14 G	16179259.34	16179259.51	16179259.71	0.0089	0.0031
Mercury	39585-06-13 03:50 G	16179347.50	16179347.66	16179347.85	0.0089	0.0042
Mercury	39585-09-09 07:41 G	16179435.67	16179435.82	16179435.98	0.0089	0.0052
Mercury	39585-12-06 11:17 G	16179523.84	16179523.97	16179524.11	0.0089	0.0063
Mercury	39586-03-04 14:38 G	16179612.02	16179612.11	16179612.23	0.0089	0.0074
Mercury	39586-05-31 18:14 G	16179700.22	16179700.26	16179700.33	0.0089	0.0085
Jupiter	39602-11-27 13:55 G	16185723.73	16185724.08	16185724.54	0.0089	0.0060
Moon	39605-03-20 09:36 G	16186567.80	16186567.90	16186568.05	0.0089	0.0078

Earth	39605-03-20 13:12 G	16186567.98	16186568.05	16186568.17	0.0089	0.0083	*
Earth	39606-03-23 01:26 G	16186935.38	16186935.56	16186935.76	0.0089	0.0061	
Moon	39606-03-23 04:34 G	16186935.54	16186935.69	16186935.89	0.0089	0.0066	*
Moon	39607-03-25 10:34 G	16187302.71	16187302.94	16187303.18	0.0089	0.0035	
Earth	39607-03-25 13:41 G	16187302.84	16187303.07	16187303.30	0.0089	0.0039	*
Earth	39608-03-27 01:12 G	16187670.31	16187670.55	16187670.82	0.0089	0.0018	
Moon	39608-03-27 03:50 G	16187670.41	16187670.66	16187670.92	0.0089	0.0022	*
Moon	39609-03-29 12:43 G	16188037.79	16188038.03	16188038.28	0.0089	0.0009	
Earth	39609-03-29 13:26 G	16188037.81	16188038.06	16188038.32	0.0089	0.0005	*
Moon	39610-04-01 01:26 G	16188405.31	16188405.56	16188405.82	0.0089	0.0023	
Earth	39610-04-01 01:26 G	16188405.32	16188405.56	16188405.81	0.0089	0.0027	*
Earth	39611-04-03 13:26 G	16188772.85	16188773.06	16188773.28	0.0090	0.0049	
Moon	39611-04-03 14:24 G	16188772.92	16188773.10	16188773.31	0.0090	0.0054	*
Moon	39612-04-04 22:19 G	16189140.29	16189140.43	16189140.64	0.0090	0.0067	
Earth	39612-04-05 01:26 G	16189140.42	16189140.56	16189140.73	0.0090	0.0071	*
Venus	39637-02-28 22:48 G	16198236.38	16198236.45	16198236.57	0.0089	0.0081	
Venus	39637-10-12 12:14 G	16198461.88	16198462.01	16198462.17	0.0089	0.0066	
Venus	39638-05-26 01:26 G	16198687.39	16198687.56	16198687.75	0.0089	0.0051	
Venus	39639-01-06 14:24 G	16198912.92	16198913.10	16198913.32	0.0089	0.0037	
Venus	39639-08-20 03:50 G	16199138.45	16199138.66	16199138.88	0.0089	0.0021	
Venus	39640-04-01 17:17 G	16199364.00	16199364.22	16199364.44	0.0089	0.0006	
Venus	39640-11-13 06:29 G	16199589.55	16199589.77	16199589.99	0.0089	0.0009	
Venus	39641-06-26 19:26 G	16199815.11	16199815.31	16199815.53	0.0089	0.0024	
Venus	39642-02-07 08:24 G	16200040.67	16200040.85	16200041.07	0.0089	0.0039	
Venus	39642-09-20 22:05 G	16200266.24	16200266.42	16200266.59	0.0089	0.0053	
Venus	39643-05-04 11:02 G	16200491.83	16200491.96	16200492.11	0.0089	0.0068	
Venus	39643-12-15 23:46 G	16200717.43	16200717.49	16200717.60	0.0089	0.0083	
Mercury	39663-02-08 03:50 G	16207711.63	16207711.66	16207711.72	0.0089	0.0083	
Mercury	39663-05-07 05:02 G	16207799.66	16207799.71	16207799.79	0.0089	0.0076	
Mercury	39663-08-03 06:43 G	16207887.70	16207887.78	16207887.86	0.0089	0.0068	

Mars	39663-09-10 21:36 G	16207926.13	16207926.40	16207926.68	0.0089	0.0024
Mercury	39663-10-30 07:55 G	16207975.74	16207975.83	16207975.93	0.0089	0.0061
Mercury	39664-01-26 09:07 G	16208063.78	16208063.88	16208063.99	0.0089	0.0053
Mercury	39664-04-23 10:34 G	16208151.83	16208151.94	16208152.05	0.0089	0.0046
Mercury	39664-07-20 11:46 G	16208239.87	16208239.99	16208240.11	0.0089	0.0038
Mercury	39664-10-16 13:12 G	16208327.92	16208328.05	16208328.17	0.0089	0.0031
Mercury	39665-01-12 14:24 G	16208415.97	16208416.10	16208416.23	0.0089	0.0024
Mercury	39665-04-10 15:36 G	16208504.02	16208504.15	16208504.28	0.0089	0.0016
Mercury	39665-07-07 17:02 G	16208592.08	16208592.21	16208592.34	0.0089	0.0009
Mars	39665-08-04 08:24 G	16208619.62	16208619.85	16208620.11	0.0089	0.0046
Mercury	39665-10-03 18:14 G	16208680.13	16208680.26	16208680.39	0.0089	0.0002
Mercury	39665-12-30 19:41 G	16208768.18	16208768.32	16208768.45	0.0089	0.0007
Mercury	39666-03-28 20:53 G	16208856.24	16208856.37	16208856.50	0.0089	0.0014
Mercury	39666-06-24 22:05 G	16208944.30	16208944.42	16208944.55	0.0089	0.0021
Mercury	39666-09-20 23:17 G	16209032.35	16209032.47	16209032.60	0.0089	0.0029
Mercury	39666-12-18 00:43 G	16209120.41	16209120.53	16209120.65	0.0089	0.0036
Mercury	39667-03-16 01:55 G	16209208.47	16209208.58	16209208.70	0.0089	0.0044
Mercury	39667-06-12 03:22 G	16209296.54	16209296.64	16209296.75	0.0089	0.0051
Mercury	39667-09-08 04:34 G	16209384.60	16209384.69	16209384.80	0.0088	0.0058
Mercury	39667-12-05 06:00 G	16209472.67	16209472.75	16209472.84	0.0088	0.0066
Mercury	39668-03-02 07:12 G	16209560.74	16209560.80	16209560.88	0.0088	0.0073
Mercury	39668-05-29 08:38 G	16209648.81	16209648.86	16209648.92	0.0088	0.0081
Mercury	39668-08-25 09:50 G	16209736.91	16209736.91	16209736.92	0.0088	0.0088
Moon	39686-09-19 20:38 G	16216336.34	16216336.36	16216336.39	0.0088	0.0087
Earth	39686-09-19 23:31 G	16216336.44	16216336.48	16216336.58	0.0088	0.0085
Earth	39687-09-22 11:02 G	16216703.81	16216703.96	16216704.16	0.0088	0.0064
Moon	39687-09-22 14:38 G	16216703.94	16216704.11	16216704.31	0.0088	0.0060 *
Moon	39688-09-23 18:58 G	16217071.09	16217071.29	16217071.53	0.0088	0.0047
Earth	39688-09-23 22:34 G	16217071.24	16217071.44	16217071.69	0.0088	0.0043 *
Earth	39689-09-26 10:05 G	16217438.68	16217438.92	16217439.19	0.0088	0.0022

Moon	39689-09-26 13:12 G	16217438.80	16217439.05	16217439.31	0.0088	0.0018	*
Moon	39690-09-28 19:41 G	16217806.07	16217806.32	16217806.57	0.0088	0.0004	
Earth	39690-09-28 21:50 G	16217806.15	16217806.41	16217806.67	0.0088	0.0001	*
Earth	39691-10-01 08:53 G	16218173.63	16218173.87	16218174.13	0.0088	0.0021	
Moon	39691-10-01 10:05 G	16218173.68	16218173.92	16218174.19	0.0088	0.0025	*
Earth	39692-10-02 20:10 G	16218541.13	16218541.34	16218541.59	0.0088	0.0042	
Moon	39692-10-02 20:38 G	16218541.16	16218541.36	16218541.61	0.0088	0.0039	*
Moon	39693-10-05 06:29 G	16218908.61	16218908.77	16218908.96	0.0088	0.0066	
Earth	39693-10-05 07:26 G	16218908.66	16218908.81	16218909.02	0.0088	0.0063	*
Earth	39694-10-07 18:29 G	16219276.22	16219276.27	16219276.37	0.0088	0.0084	
Moon	39694-10-07 20:53 G	16219276.30	16219276.37	16219276.51	0.0088	0.0080	*
Venus	39719-11-28 22:05 G	16228458.36	16228458.42	16228458.53	0.0088	0.0081	
Venus	39720-07-11 11:02 G	16228683.84	16228683.96	16228684.12	0.0088	0.0067	
Venus	39721-02-22 00:00 G	16228909.34	16228909.50	16228909.69	0.0088	0.0053	
Venus	39721-10-05 13:26 G	16229134.86	16229135.06	16229135.26	0.0088	0.0038	
Venus	39722-05-19 02:10 G	16229360.38	16229360.59	16229360.81	0.0088	0.0024	
Venus	39722-12-30 14:53 G	16229585.91	16229586.12	16229586.35	0.0088	0.0010	
Venus	39723-08-13 03:50 G	16229811.44	16229811.66	16229811.88	0.0088	0.0004	
Venus	39724-03-25 16:34 G	16230036.98	16230037.19	16230037.41	0.0088	0.0018	
Venus	39724-11-06 05:31 G	16230262.53	16230262.73	16230262.94	0.0088	0.0032	
Venus	39725-06-19 18:00 G	16230488.08	16230488.25	16230488.46	0.0088	0.0047	
Venus	39726-01-31 06:43 G	16230713.65	16230713.78	16230713.96	0.0088	0.0061	
Venus	39726-09-13 19:55 G	16230939.23	16230939.33	16230939.46	0.0088	0.0075	
Mercury	39747-04-18 06:58 G	16238460.76	16238460.79	16238460.86	0.0089	0.0086	
Mars	39747-06-07 01:55 G	16238510.24	16238510.58	16238510.93	0.0089	0.0003	
Mercury	39747-07-15 10:34 G	16238548.86	16238548.94	16238549.06	0.0089	0.0075	
Mercury	39747-10-11 14:10 G	16238636.98	16238637.09	16238637.25	0.0089	0.0064	
Mercury	39748-01-07 18:00 G	16238725.11	16238725.25	16238725.42	0.0089	0.0053	
Mercury	39748-04-04 22:05 G	16238813.25	16238813.42	16238813.59	0.0089	0.0041	
Mercury	39748-07-02 01:41 G	16238901.39	16238901.57	16238901.75	0.0089	0.0030	

Mercury	39748-09-28 05:17 G	16238989.53	16238989.72	16238989.91	0.0089	0.0019
Mercury	39748-12-25 08:53 G	16239077.68	16239077.87	16239078.07	0.0089	0.0008
Mercury	39749-03-23 12:29 G	16239165.83	16239166.02	16239166.22	0.0089	0.0004
Mars	39749-05-03 14:38 G	16239207.02	16239207.11	16239207.27	0.0089	0.0083
Mercury	39749-06-19 16:05 G	16239253.98	16239254.17	16239254.37	0.0089	0.0014
Mercury	39749-09-15 19:41 G	16239342.14	16239342.32	16239342.51	0.0089	0.0025
Mercury	39749-12-12 23:17 G	16239430.30	16239430.47	16239430.66	0.0089	0.0036
Mercury	39750-03-11 02:53 G	16239518.46	16239518.62	16239518.79	0.0089	0.0047
Mercury	39750-06-07 06:14 G	16239606.63	16239606.76	16239606.92	0.0089	0.0058
Mercury	39750-09-03 09:50 G	16239694.81	16239694.91	16239695.05	0.0089	0.0069
Mercury	39750-11-30 13:12 G	16239782.99	16239783.05	16239783.16	0.0089	0.0080
Moon	39770-03-23 09:07 G	16246835.77	16246835.88	16246836.05	0.0089	0.0075
Earth	39770-03-23 12:00 G	16246835.86	16246836.00	16246836.16	0.0089	0.0072 *
Earth	39771-03-26 00:14 G	16247203.30	16247203.51	16247203.72	0.0089	0.0050
Moon	39771-03-26 01:26 G	16247203.36	16247203.56	16247203.80	0.0089	0.0049 *
Moon	39772-03-27 11:02 G	16247570.75	16247570.96	16247571.21	0.0089	0.0030
Earth	39772-03-27 12:14 G	16247570.77	16247571.01	16247571.26	0.0089	0.0028 *
Moon	39773-03-29 23:02 G	16247938.20	16247938.46	16247938.73	0.0089	0.0004
Earth	39773-03-30 00:00 G	16247938.25	16247938.50	16247938.76	0.0089	0.0006 *
Earth	39774-04-01 12:00 G	16248305.75	16248306.00	16248306.26	0.0089	0.0016
Moon	39774-04-01 13:41 G	16248305.84	16248306.07	16248306.33	0.0089	0.0016 *
Moon	39775-04-03 20:53 G	16248673.16	16248673.37	16248673.63	0.0090	0.0040
Earth	39775-04-03 23:46 G	16248673.28	16248673.49	16248673.74	0.0090	0.0039 *
Earth	39776-04-05 11:31 G	16249040.81	16249040.98	16249041.19	0.0090	0.0061
Moon	39776-04-05 15:22 G	16249040.96	16249041.14	16249041.34	0.0090	0.0059 *
Moon	39777-04-07 19:55 G	16249408.27	16249408.33	16249408.46	0.0090	0.0084
Earth	39777-04-07 23:31 G	16249408.41	16249408.48	16249408.61	0.0090	0.0083 *
Saturn	39796-08-09 05:17 G	16256471.56	16256471.72	16256471.97	0.0089	0.0085
Venus	39801-06-04 10:19 G	16258230.88	16258230.93	16258231.02	0.0089	0.0085
Venus	39802-01-15 23:31 G	16258456.36	16258456.48	16258456.63	0.0089	0.0070



Venus	39802-08-29 12:29 G	16258681.87	16258682.02	16258682.22	0.0089	0.0056
Venus	39803-04-12 01:55 G	16258907.40	16258907.58	16258907.79	0.0089	0.0041
Venus	39803-11-23 15:22 G	16259132.93	16259133.14	16259133.36	0.0089	0.0026
Venus	39804-07-06 04:34 G	16259358.47	16259358.69	16259358.91	0.0089	0.0011
Venus	39805-02-16 17:46 G	16259584.02	16259584.24	16259584.46	0.0089	0.0004
Venus	39805-09-30 06:58 G	16259809.57	16259809.79	16259810.00	0.0089	0.0019
Venus	39806-05-13 19:55 G	16260035.14	16260035.33	16260035.54	0.0089	0.0034
Venus	39806-12-25 08:53 G	16260260.70	16260260.87	16260261.07	0.0089	0.0048
Venus	39807-08-07 22:19 G	16260486.28	16260486.43	16260486.59	0.0089	0.0063
Venus	39808-03-20 11:17 G	16260711.88	16260711.97	16260712.09	0.0089	0.0078
Mars	39827-04-28 16:19 G	16267689.95	16267690.18	16267690.44	0.0089	0.0046
Mercury	39827-08-11 02:38 G	16267794.59	16267794.61	16267794.64	0.0089	0.0087
Mercury	39827-11-07 03:50 G	16267882.61	16267882.66	16267882.72	0.0089	0.0079
Mercury	39828-02-03 05:17 G	16267970.65	16267970.72	16267970.80	0.0089	0.0072
Mercury	39828-05-01 06:29 G	16268058.69	16268058.77	16268058.86	0.0089	0.0065
Mercury	39828-07-28 07:41 G	16268146.73	16268146.82	16268146.93	0.0089	0.0057
Mercury	39828-10-24 09:07 G	16268234.77	16268234.88	16268234.99	0.0089	0.0050
Mercury	39829-01-20 10:19 G	16268322.82	16268322.93	16268323.05	0.0089	0.0043
Mars	39829-03-22 02:53 G	16268383.35	16268383.62	16268383.90	0.0089	0.0024
Mercury	39829-04-18 11:31 G	16268410.87	16268410.98	16268411.11	0.0089	0.0035
Mercury	39829-07-15 12:58 G	16268498.92	16268499.04	16268499.17	0.0089	0.0028
Mercury	39829-10-11 14:10 G	16268586.96	16268587.09	16268587.22	0.0089	0.0020
Mercury	39830-01-07 15:22 G	16268675.02	16268675.14	16268675.28	0.0089	0.0014
Mercury	39830-04-05 16:48 G	16268763.07	16268763.20	16268763.33	0.0089	0.0006
Mercury	39830-07-02 18:00 G	16268851.12	16268851.25	16268851.39	0.0089	0.0004
Mercury	39830-09-28 19:26 G	16268939.18	16268939.31	16268939.44	0.0089	0.0009
Mercury	39830-12-25 20:38 G	16269027.23	16269027.36	16269027.49	0.0089	0.0017
Mercury	39831-03-23 21:50 G	16269115.29	16269115.41	16269115.54	0.0089	0.0025
Mercury	39831-06-19 23:17 G	16269203.35	16269203.47	16269203.60	0.0089	0.0032
Mercury	39831-09-16 00:29 G	16269291.41	16269291.52	16269291.65	0.0088	0.0039

Mercury	39831-12-13 01:55 G	16269379.47	16269379.58	16269379.69	0.0088	0.0047
Mercury	39832-03-10 03:07 G	16269467.53	16269467.63	16269467.74	0.0088	0.0054
Mercury	39832-06-06 04:19 G	16269555.60	16269555.68	16269555.78	0.0088	0.0062
Mercury	39832-09-02 05:31 G	16269643.66	16269643.73	16269643.83	0.0088	0.0070
Mercury	39832-11-29 06:58 G	16269731.74	16269731.79	16269731.86	0.0088	0.0077
Mercury	39833-02-25 08:10 G	16269819.82	16269819.84	16269819.89	0.0088	0.0085
Moon	39851-09-23 18:29 G	16276604.13	16276604.27	16276604.42	0.0088	0.0071
Earth	39851-09-23 20:53 G	16276604.27	16276604.37	16276604.54	0.0088	0.0075 *
Earth	39852-09-25 08:53 G	16276971.67	16276971.87	16276972.08	0.0088	0.0053
Moon	39852-09-25 11:31 G	16276971.80	16276971.98	16276972.20	0.0088	0.0056 *
Moon	39853-09-27 18:43 G	16277339.06	16277339.28	16277339.53	0.0088	0.0029
Earth	39853-09-27 20:24 G	16277339.11	16277339.35	16277339.59	0.0088	0.0032 *
Earth	39854-09-30 07:26 G	16277706.56	16277706.81	16277707.07	0.0088	0.0011
Moon	39854-09-30 07:41 G	16277706.56	16277706.82	16277707.10	0.0088	0.0014 *
Earth	39855-10-02 18:58 G	16278074.03	16278074.29	16278074.55	0.0088	0.0010
Moon	39855-10-02 19:26 G	16278074.07	16278074.31	16278074.56	0.0088	0.0013 *
Moon	39856-10-04 03:36 G	16278441.41	16278441.65	16278441.91	0.0088	0.0028
Earth	39856-10-04 06:00 G	16278441.52	16278441.75	16278442.01	0.0088	0.0032 *
Earth	39857-10-06 17:02 G	16278809.02	16278809.21	16278809.44	0.0088	0.0053
Moon	39857-10-06 19:41 G	16278809.15	16278809.32	16278809.54	0.0088	0.0056 *
Moon	39858-10-09 00:43 G	16279176.40	16279176.53	16279176.71	0.0088	0.0071
Earth	39858-10-09 04:19 G	16279176.57	16279176.68	16279176.85	0.0088	0.0074 *
Venus	39884-03-02 09:07 G	16288452.85	16288452.88	16288452.96	0.0088	0.0085
Venus	39884-10-13 22:05 G	16288678.32	16288678.42	16288678.58	0.0088	0.0071
Venus	39885-05-27 11:02 G	16288903.81	16288903.96	16288904.15	0.0088	0.0057
Venus	39886-01-08 00:00 G	16289129.32	16289129.50	16289129.71	0.0088	0.0043
Venus	39886-08-21 13:26 G	16289354.85	16289355.06	16289355.26	0.0088	0.0028
Venus	39887-04-04 02:10 G	16289580.37	16289580.59	16289580.81	0.0088	0.0014
Venus	39887-11-15 15:07 G	16289805.91	16289806.13	16289806.35	0.0088	0.0001
Venus	39888-06-28 03:36 G	16290031.44	16290031.65	16290031.88	0.0088	0.0014

Venus	39889-02-08 16:19 G	16290256.98	16290257.18	16290257.40	0.0088	0.0029
Venus	39889-09-22 05:17 G	16290482.54	16290482.72	16290482.93	0.0088	0.0042
Venus	39890-05-05 18:14 G	16290708.10	16290708.26	16290708.44	0.0088	0.0056
Venus	39890-12-17 06:58 G	16290933.67	16290933.79	16290933.94	0.0088	0.0070
Venus	39891-07-30 19:41 G	16291159.28	16291159.32	16291159.40	0.0088	0.0084
Mars	39911-01-20 08:38 G	16298271.56	16298271.86	16298272.21	0.0089	0.0031
Mercury	39912-01-15 05:31 G	16298631.67	16298631.73	16298631.83	0.0089	0.0081
Mercury	39912-04-12 09:22 G	16298719.79	16298719.89	16298720.03	0.0089	0.0070
Mercury	39912-07-09 13:26 G	16298807.91	16298808.06	16298808.21	0.0089	0.0058
Mercury	39912-10-05 17:02 G	16298896.05	16298896.21	16298896.38	0.0089	0.0047
Mars	39912-12-16 23:46 G	16298968.23	16298968.49	16298968.76	0.0089	0.0056
Mercury	39913-01-01 20:38 G	16298984.19	16298984.36	16298984.55	0.0089	0.0036
Mercury	39913-03-31 00:29 G	16299072.33	16299072.52	16299072.71	0.0089	0.0025
Mercury	39913-06-27 04:05 G	16299160.48	16299160.67	16299160.87	0.0089	0.0014
Mercury	39913-09-23 07:41 G	16299248.63	16299248.82	16299249.02	0.0089	0.0003
Mercury	39913-12-20 11:17 G	16299336.78	16299336.97	16299337.17	0.0089	0.0009
Mercury	39914-03-18 15:07 G	16299424.94	16299425.13	16299425.32	0.0089	0.0019
Mercury	39914-06-14 18:43 G	16299513.09	16299513.28	16299513.46	0.0089	0.0030
Mercury	39914-09-10 22:05 G	16299601.26	16299601.42	16299601.60	0.0089	0.0041
Mercury	39914-12-08 01:41 G	16299689.42	16299689.57	16299689.74	0.0089	0.0052
Mercury	39915-03-06 05:17 G	16299777.59	16299777.72	16299777.87	0.0089	0.0063
Mercury	39915-06-02 08:53 G	16299865.77	16299865.87	16299865.98	0.0089	0.0074
Mercury	39915-08-29 12:14 G	16299953.97	16299954.01	16299954.08	0.0089	0.0085
Earth	39934-03-24 21:07 G	16306736.32	16306736.38	16306736.50	0.0089	0.0084
Moon	39934-03-24 22:05 G	16306736.33	16306736.42	16306736.57	0.0089	0.0080 *
Earth	39935-03-27 09:22 G	16307103.72	16307103.89	16307104.09	0.0089	0.0062
Moon	39935-03-27 10:19 G	16307103.76	16307103.93	16307104.10	0.0089	0.0065 *
Moon	39936-03-28 20:10 G	16307471.11	16307471.34	16307471.60	0.0089	0.0036
Earth	39936-03-28 21:22 G	16307471.18	16307471.39	16307471.64	0.0089	0.0040 *
Earth	39937-03-31 09:36 G	16307838.66	16307838.90	16307839.16	0.0089	0.0017

Moon	39937-03-31 12:14 G	16307838.78	16307839.01	16307839.26	0.0089	0.0021	*
Moon	39938-04-02 18:43 G	16308206.02	16308206.28	16308206.54	0.0089	0.0009	
Earth	39938-04-02 21:50 G	16308206.16	16308206.41	16308206.67	0.0089	0.0006	*
Earth	39939-04-05 09:36 G	16308573.67	16308573.90	16308574.16	0.0089	0.0028	
Moon	39939-04-05 13:12 G	16308573.81	16308574.05	16308574.30	0.0089	0.0023	*
Moon	39940-04-06 18:14 G	16308941.07	16308941.26	16308941.47	0.0089	0.0054	
Earth	39940-04-06 21:36 G	16308941.20	16308941.40	16308941.63	0.0089	0.0050	*
Earth	39941-04-09 09:36 G	16309308.76	16309308.90	16309309.07	0.0090	0.0072	
Moon	39941-04-09 12:14 G	16309308.86	16309309.01	16309309.21	0.0090	0.0068	*
Venus	39965-09-06 21:07 G	16318225.37	16318225.38	16318225.43	0.0089	0.0089	
Venus	39966-04-20 10:48 G	16318450.84	16318450.95	16318451.08	0.0089	0.0074	
Venus	39966-12-01 23:46 G	16318676.34	16318676.49	16318676.67	0.0089	0.0060	
Venus	39967-07-15 13:12 G	16318901.86	16318902.05	16318902.24	0.0089	0.0045	
Venus	39968-02-26 02:10 G	16319127.39	16319127.59	16319127.80	0.0089	0.0030	
Venus	39968-10-08 15:22 G	16319352.93	16319353.14	16319353.36	0.0089	0.0016	
Venus	39969-05-22 04:34 G	16319578.47	16319578.69	16319578.91	0.0089	0.0001	
Venus	39970-01-02 17:46 G	16319804.02	16319804.24	16319804.45	0.0089	0.0014	
Venus	39970-08-16 06:43 G	16320029.58	16320029.78	16320029.99	0.0089	0.0028	
Venus	39971-03-29 19:41 G	16320255.15	16320255.32	16320255.53	0.0089	0.0044	
Venus	39971-11-10 09:07 G	16320480.72	16320480.88	16320481.05	0.0089	0.0058	
Venus	39972-06-22 21:50 G	16320706.30	16320706.41	16320706.56	0.0089	0.0072	
Venus	39973-02-03 11:17 G	16320931.93	16320931.97	16320932.03	0.0089	0.0087	
Mars	39990-12-13 09:07 G	16327453.72	16327453.88	16327454.08	0.0089	0.0068	
Mercury	39992-05-08 02:24 G	16327965.57	16327965.60	16327965.65	0.0089	0.0084	
Mercury	39992-08-04 03:50 G	16328053.60	16328053.66	16328053.73	0.0089	0.0076	
Mercury	39992-10-31 05:02 G	16328141.63	16328141.71	16328141.80	0.0089	0.0069	
Mars	39992-11-05 20:10 G	16328147.06	16328147.34	16328147.63	0.0089	0.0003	
Mercury	39993-01-27 06:14 G	16328229.67	16328229.76	16328229.86	0.0089	0.0062	
Mercury	39993-04-25 07:41 G	16328317.72	16328317.82	16328317.92	0.0089	0.0054	
Mercury	39993-07-22 08:53 G	16328405.76	16328405.87	16328405.99	0.0089	0.0047	

Mercury	39993-10-18 10:05 G	16328493.81	16328493.92	16328494.04	0.0089	0.0039
Mercury	39994-01-14 11:31 G	16328581.86	16328581.98	16328582.10	0.0089	0.0032
Mercury	39994-04-12 12:43 G	16328669.91	16328670.03	16328670.16	0.0089	0.0025
Mercury	39994-07-09 13:55 G	16328757.96	16328758.08	16328758.22	0.0089	0.0018
Mars	39994-09-30 06:58 G	16328840.63	16328840.79	16328840.96	0.0089	0.0072
Mercury	39994-10-05 15:22 G	16328846.01	16328846.14	16328846.27	0.0089	0.0010
Mercury	39995-01-01 16:34 G	16328934.06	16328934.19	16328934.33	0.0089	0.0003
Mercury	39995-03-30 18:00 G	16329022.11	16329022.25	16329022.38	0.0089	0.0006
Mercury	39995-06-26 19:12 G	16329110.17	16329110.30	16329110.43	0.0089	0.0013
Mercury	39995-09-22 20:24 G	16329198.23	16329198.35	16329198.48	0.0089	0.0020
Mercury	39995-12-19 21:36 G	16329286.28	16329286.40	16329286.53	0.0089	0.0028
Mercury	39996-03-16 23:02 G	16329374.34	16329374.46	16329374.58	0.0089	0.0035
Mercury	39996-06-13 00:14 G	16329462.40	16329462.51	16329462.63	0.0089	0.0043
Mercury	39996-09-09 01:41 G	16329550.46	16329550.57	16329550.68	0.0088	0.0050
Mercury	39996-12-06 02:53 G	16329638.53	16329638.62	16329638.73	0.0088	0.0057
Mercury	39997-03-04 04:19 G	16329726.59	16329726.68	16329726.77	0.0088	0.0065
Mercury	39997-05-31 05:17 G	16329814.66	16329814.72	16329814.81	0.0088	0.0073
Mercury	39997-08-27 06:43 G	16329902.73	16329902.78	16329902.84	0.0088	0.0080
Mercury	39997-11-23 07:55 G	16329990.83	16329990.83	16329990.86	0.0088	0.0088

# 41ST MILLENNIUM CE

This is a list of transits visible from Neptune in the 41st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
--------	-------------------------	---	-------	-----	-----	--------	-------	---

Earth	40015-09-24 06:29 G	16336504.74	16336504.77	16336504.85	0.0088	0.0086
Moon	40015-09-24 08:38 G	16336504.86	16336504.86	16336504.89	0.0088	0.0088
Moon	40016-09-25 17:02 G	16336872.05	16336872.21	16336872.41	0.0088	0.0062
Earth	40016-09-25 18:00 G	16336872.10	16336872.25	16336872.45	0.0088	0.0065 *
Moon	40017-09-28 04:48 G	16337239.49	16337239.70	16337239.95	0.0088	0.0046
Earth	40017-09-28 05:31 G	16337239.52	16337239.73	16337239.97	0.0088	0.0043 *
Earth	40018-09-30 17:02 G	16337606.96	16337607.21	16337607.47	0.0088	0.0022
Moon	40018-09-30 18:43 G	16337607.04	16337607.28	16337607.53	0.0088	0.0020 *
Moon	40019-10-03 02:10 G	16337974.32	16337974.59	16337974.86	0.0088	0.0003
Earth	40019-10-03 04:34 G	16337974.43	16337974.69	16337974.95	0.0088	0.0001 *
Earth	40020-10-04 15:36 G	16338341.91	16338342.15	16338342.41	0.0088	0.0021
Moon	40020-10-04 18:58 G	16338342.06	16338342.29	16338342.55	0.0088	0.0024 *
Moon	40021-10-06 23:17 G	16338709.25	16338709.47	16338709.72	0.0088	0.0040
Earth	40021-10-07 02:53 G	16338709.40	16338709.62	16338709.86	0.0088	0.0042 *
Earth	40022-10-09 14:10 G	16339076.92	16339077.09	16339077.27	0.0088	0.0063
Moon	40022-10-09 17:31 G	16339077.08	16339077.23	16339077.41	0.0088	0.0067 *
Moon	40023-10-11 22:19 G	16339444.37	16339444.43	16339444.55	0.0088	0.0082
Earth	40023-10-12 00:58 G	16339444.51	16339444.54	16339444.64	0.0088	0.0085 *
Venus	40049-01-16 08:53 G	16348672.77	16348672.87	16348673.00	0.0088	0.0075
Venus	40049-08-29 21:50 G	16348898.27	16348898.41	16348898.58	0.0088	0.0061
Venus	40050-04-12 10:48 G	16349123.78	16349123.95	16349124.15	0.0088	0.0047
Venus	40050-11-23 23:46 G	16349349.29	16349349.49	16349349.70	0.0088	0.0033
Venus	40051-07-07 12:43 G	16349574.82	16349575.03	16349575.25	0.0088	0.0019
Venus	40052-02-18 01:41 G	16349800.35	16349800.57	16349800.79	0.0088	0.0005
Venus	40052-09-30 14:38 G	16350025.89	16350026.11	16350026.33	0.0088	0.0009
Venus	40053-05-14 03:36 G	16350251.44	16350251.65	16350251.86	0.0088	0.0023
Venus	40053-12-25 16:19 G	16350476.98	16350477.18	16350477.38	0.0088	0.0037
Venus	40054-08-08 05:02 G	16350702.54	16350702.71	16350702.90	0.0088	0.0051
Venus	40055-03-21 18:00 G	16350928.11	16350928.25	16350928.40	0.0088	0.0065

Venus	40055-11-02 06:43 G	16351153.70	16351153.78	16351153.89	0.0088	0.0080
Mars	40074-09-02 13:55 G	16358032.82	16358033.08	16358033.34	0.0089	0.0059
Mercury	40076-07-15 00:14 G	16358714.50	16358714.51	16358714.55	0.0089	0.0088
Mars	40076-07-30 04:34 G	16358729.37	16358729.69	16358730.02	0.0089	0.0028
Mercury	40076-10-11 03:50 G	16358802.58	16358802.66	16358802.78	0.0089	0.0077
Mercury	40077-01-07 07:41 G	16358890.70	16358890.82	16358890.97	0.0089	0.0066
Mercury	40077-04-05 11:46 G	16358978.84	16358978.99	16358979.14	0.0089	0.0054
Mercury	40077-07-02 15:22 G	16359066.97	16359067.14	16359067.31	0.0089	0.0043
Mercury	40077-09-28 18:58 G	16359155.11	16359155.29	16359155.48	0.0089	0.0032
Mercury	40077-12-25 22:48 G	16359243.26	16359243.45	16359243.64	0.0089	0.0021
Mercury	40078-03-24 02:24 G	16359331.41	16359331.60	16359331.80	0.0089	0.0010
Mercury	40078-06-20 06:00 G	16359419.56	16359419.75	16359419.95	0.0089	0.0003
Mercury	40078-09-16 09:36 G	16359507.71	16359507.90	16359508.10	0.0089	0.0013
Mercury	40078-12-13 13:12 G	16359595.87	16359596.05	16359596.25	0.0089	0.0024
Mercury	40079-03-11 16:48 G	16359684.03	16359684.20	16359684.39	0.0089	0.0035
Mercury	40079-06-07 20:24 G	16359772.20	16359772.35	16359772.53	0.0089	0.0046
Mercury	40079-09-04 00:00 G	16359860.36	16359860.50	16359860.66	0.0089	0.0057
Mercury	40079-12-01 03:22 G	16359948.54	16359948.64	16359948.79	0.0089	0.0068
Mercury	40080-02-27 07:26 G	16360036.73	16360036.81	16360036.90	0.0089	0.0078
Moon	40099-03-26 16:05 G	16367004.06	16367004.17	16367004.33	0.0089	0.0077
Earth	40099-03-26 18:29 G	16367004.15	16367004.27	16367004.44	0.0089	0.0073 *
Earth	40100-03-29 06:29 G	16367371.58	16367371.77	16367372.00	0.0089	0.0051
Moon	40100-03-29 09:22 G	16367371.69	16367371.89	16367372.11	0.0089	0.0049 *
Moon	40101-03-31 15:22 G	16367738.90	16367739.14	16367739.39	0.0089	0.0032
Earth	40101-03-31 18:58 G	16367739.05	16367739.29	16367739.54	0.0089	0.0029 *
Earth	40102-04-03 06:58 G	16368106.54	16368106.79	16368107.05	0.0089	0.0007
Moon	40102-04-03 10:34 G	16368106.68	16368106.94	16368107.20	0.0089	0.0003 *
Moon	40103-04-05 15:50 G	16368473.92	16368474.16	16368474.42	0.0089	0.0014
Earth	40103-04-05 19:12 G	16368474.05	16368474.30	16368474.55	0.0089	0.0016 *
Earth	40104-04-07 06:43 G	16368841.57	16368841.78	16368842.03	0.0089	0.0039

Moon	40104-04-07 09:36 G	16368841.68	16368841.90	16368842.15	0.0089	0.0041	*
Moon	40105-04-09 17:31 G	16369209.07	16369209.23	16369209.44	0.0090	0.0059	
Earth	40105-04-09 18:58 G	16369209.12	16369209.29	16369209.49	0.0090	0.0061	*
Earth	40106-04-12 06:58 G	16369576.71	16369576.79	16369576.90	0.0090	0.0083	
Moon	40106-04-12 07:12 G	16369576.74	16369576.80	16369576.91	0.0090	0.0085	*
Venus	40130-07-23 21:07 G	16378445.30	16378445.38	16378445.51	0.0089	0.0079	
Venus	40131-03-06 10:48 G	16378670.80	16378670.95	16378671.11	0.0089	0.0064	
Venus	40131-10-17 23:46 G	16378896.32	16378896.49	16378896.69	0.0089	0.0050	
Venus	40132-05-30 13:12 G	16379121.85	16379122.05	16379122.25	0.0089	0.0035	
Venus	40133-01-11 02:10 G	16379347.38	16379347.59	16379347.81	0.0089	0.0020	
Venus	40133-08-24 15:22 G	16379572.92	16379573.14	16379573.36	0.0089	0.0006	
Venus	40134-04-07 04:34 G	16379798.48	16379798.69	16379798.91	0.0089	0.0009	
Venus	40134-11-18 17:31 G	16380024.03	16380024.23	16380024.45	0.0089	0.0024	
Venus	40135-07-02 06:29 G	16380249.58	16380249.77	16380249.98	0.0089	0.0038	
Venus	40136-02-12 19:26 G	16380475.15	16380475.31	16380475.50	0.0089	0.0053	
Venus	40136-09-25 08:53 G	16380700.73	16380700.87	16380701.02	0.0089	0.0067	
Venus	40137-05-08 21:50 G	16380926.34	16380926.41	16380926.51	0.0089	0.0081	
Mars	40156-06-22 12:58 G	16387910.77	16387911.04	16387911.33	0.0089	0.0021	
Mercury	40156-11-07 00:58 G	16388048.53	16388048.54	16388048.56	0.0089	0.0088	
Mercury	40157-02-03 02:10 G	16388136.55	16388136.59	16388136.65	0.0089	0.0081	
Mercury	40157-05-02 03:36 G	16388224.58	16388224.65	16388224.72	0.0089	0.0073	
Mercury	40157-07-29 04:48 G	16388312.62	16388312.70	16388312.79	0.0089	0.0066	
Mercury	40157-10-25 06:00 G	16388400.66	16388400.75	16388400.85	0.0089	0.0059	
Mercury	40158-01-21 07:26 G	16388488.70	16388488.81	16388488.92	0.0089	0.0051	
Mercury	40158-04-19 08:38 G	16388576.75	16388576.86	16388576.98	0.0089	0.0044	
Mars	40158-05-16 23:46 G	16388604.25	16388604.49	16388604.72	0.0089	0.0050	
Mercury	40158-07-16 09:50 G	16388664.80	16388664.91	16388665.04	0.0089	0.0036	
Mercury	40158-10-12 11:17 G	16388752.84	16388752.97	16388753.09	0.0089	0.0029	
Mercury	40159-01-08 12:29 G	16388840.89	16388841.02	16388841.15	0.0089	0.0022	
Mercury	40159-04-06 13:41 G	16388928.95	16388929.07	16388929.21	0.0089	0.0015	



Mercury	40159-07-03 15:07 G	16389017.00	16389017.13	16389017.26	0.0089	0.0007
Mercury	40159-09-29 16:19 G	16389105.05	16389105.18	16389105.31	0.0089	0.0002
Mercury	40159-12-26 17:46 G	16389193.11	16389193.24	16389193.37	0.0089	0.0008
Mercury	40160-03-23 18:58 G	16389281.16	16389281.29	16389281.42	0.0089	0.0016
Mercury	40160-06-19 20:10 G	16389369.22	16389369.34	16389369.47	0.0089	0.0023
Mercury	40160-09-15 21:22 G	16389457.27	16389457.39	16389457.52	0.0089	0.0031
Mercury	40160-12-12 22:48 G	16389545.33	16389545.45	16389545.57	0.0088	0.0038
Mercury	40161-03-11 00:00 G	16389633.39	16389633.50	16389633.62	0.0088	0.0045
Mercury	40161-06-07 01:26 G	16389721.45	16389721.56	16389721.67	0.0088	0.0053
Mercury	40161-09-03 02:24 G	16389809.52	16389809.60	16389809.71	0.0088	0.0061
Mercury	40161-11-30 03:50 G	16389897.58	16389897.66	16389897.75	0.0088	0.0068
Mercury	40162-02-26 05:02 G	16389985.65	16389985.71	16389985.79	0.0088	0.0076
Mercury	40162-05-25 06:29 G	16390073.73	16390073.77	16390073.82	0.0088	0.0083
Jupiter	40177-12-05 22:34 G	16395746.98	16395747.44	16395747.98	0.0088	0.0038
Moon	40180-09-26 01:41 G	16396772.44	16396772.57	16396772.74	0.0088	0.0072
Earth	40180-09-26 02:53 G	16396772.50	16396772.62	16396772.76	0.0088	0.0076 *
Earth	40181-09-28 13:55 G	16397139.90	16397140.08	16397140.31	0.0088	0.0055
Moon	40181-09-28 16:19 G	16397140.01	16397140.18	16397140.38	0.0088	0.0059 *
Moon	40182-09-30 22:19 G	16397507.19	16397507.43	16397507.69	0.0088	0.0029
Earth	40182-10-01 01:55 G	16397507.34	16397507.58	16397507.82	0.0088	0.0033 *
Earth	40183-10-03 12:58 G	16397874.79	16397875.04	16397875.31	0.0088	0.0012
Moon	40183-10-03 16:19 G	16397874.94	16397875.18	16397875.44	0.0088	0.0016 *
Moon	40184-10-04 20:38 G	16398242.11	16398242.36	16398242.62	0.0088	0.0014
Earth	40184-10-05 00:29 G	16398242.27	16398242.52	16398242.78	0.0088	0.0010 *
Earth	40185-10-07 11:31 G	16398609.74	16398609.98	16398610.23	0.0088	0.0031
Moon	40185-10-07 14:24 G	16398609.86	16398610.10	16398610.36	0.0088	0.0027 *
Moon	40186-10-09 20:10 G	16398977.16	16398977.34	16398977.55	0.0088	0.0056
Earth	40186-10-09 22:19 G	16398977.25	16398977.43	16398977.67	0.0088	0.0053 *
Earth	40187-10-12 09:50 G	16399344.79	16399344.91	16399345.07	0.0088	0.0074
Moon	40187-10-12 11:02 G	16399344.82	16399344.96	16399345.15	0.0088	0.0070 *

Venus	40213-04-21 18:43 G	16408667.22	16408667.28	16408667.40	0.0088	0.0080
Venus	40213-12-03 07:41 G	16408892.70	16408892.82	16408892.99	0.0088	0.0066
Venus	40214-07-16 20:38 G	16409118.20	16409118.36	16409118.56	0.0088	0.0052
Venus	40215-02-27 09:36 G	16409343.71	16409343.90	16409344.11	0.0088	0.0038
Venus	40215-10-10 22:48 G	16409569.24	16409569.45	16409569.67	0.0088	0.0024
Venus	40216-05-23 11:46 G	16409794.77	16409794.99	16409795.21	0.0088	0.0010
Venus	40217-01-04 00:43 G	16410020.31	16410020.53	16410020.75	0.0088	0.0004
Venus	40217-08-17 13:26 G	16410245.85	16410246.06	16410246.28	0.0088	0.0018
Venus	40218-03-31 02:10 G	16410471.40	16410471.59	16410471.81	0.0088	0.0032
Venus	40218-11-11 15:07 G	16410696.95	16410697.13	16410697.33	0.0088	0.0046
Venus	40219-06-25 03:50 G	16410922.52	16410922.66	16410922.84	0.0088	0.0060
Venus	40220-02-05 16:34 G	16411148.10	16411148.19	16411148.33	0.0088	0.0075
Venus	40220-09-18 05:46 G	16411373.74	16411373.74	16411373.77	0.0088	0.0088
Mars	40238-04-17 16:48 G	16417794.20	16417794.20	16417794.24	0.0089	0.0089
Mars	40240-03-14 08:24 G	16418490.51	16418490.85	16418491.20	0.0089	0.0001
Mercury	40241-04-12 22:34 G	16418885.39	16418885.44	16418885.51	0.0089	0.0084
Mercury	40241-07-10 02:10 G	16418973.49	16418973.59	16418973.72	0.0089	0.0073
Mercury	40241-10-06 05:46 G	16419061.62	16419061.74	16419061.90	0.0089	0.0062
Mercury	40242-01-02 09:36 G	16419149.75	16419149.90	16419150.07	0.0089	0.0051
Mars	40242-02-08 22:34 G	16419187.40	16419187.44	16419187.53	0.0089	0.0087
Mercury	40242-03-31 13:12 G	16419237.89	16419238.05	16419238.24	0.0089	0.0040
Mercury	40242-06-27 17:17 G	16419326.04	16419326.22	16419326.41	0.0089	0.0028
Mercury	40242-09-23 20:53 G	16419414.18	16419414.37	16419414.57	0.0089	0.0017
Mercury	40242-12-21 00:43 G	16419502.33	16419502.53	16419502.72	0.0089	0.0006
Mercury	40243-03-19 04:19 G	16419590.48	16419590.68	16419590.88	0.0089	0.0005
Mercury	40243-06-15 07:55 G	16419678.64	16419678.83	16419679.02	0.0089	0.0016
Mercury	40243-09-11 11:17 G	16419766.80	16419766.97	16419767.17	0.0089	0.0028
Mercury	40243-12-08 14:53 G	16419854.96	16419855.12	16419855.31	0.0089	0.0039
Mercury	40244-03-05 18:29 G	16419943.13	16419943.27	16419943.45	0.0089	0.0050
Mercury	40244-06-01 22:34 G	16420031.30	16420031.44	16420031.58	0.0089	0.0060

Mercury	40244-08-29 02:10 G	16420119.48	16420119.59	16420119.71	0.0089	0.0071
Mercury	40244-11-25 05:46 G	16420207.67	16420207.74	16420207.81	0.0089	0.0082
Earth	40263-03-28 03:07 G	16426904.58	16426904.63	16426904.72	0.0089	0.0086
Moon	40263-03-28 06:58 G	16426904.70	16426904.79	16426904.89	0.0089	0.0083 *
Moon	40264-03-29 12:00 G	16427271.83	16427272.00	16427272.17	0.0089	0.0066
Earth	40264-03-29 14:53 G	16427271.97	16427272.12	16427272.33	0.0089	0.0064 *
Earth	40265-04-01 03:22 G	16427639.41	16427639.64	16427639.87	0.0089	0.0041
Moon	40265-04-01 06:29 G	16427639.56	16427639.77	16427640.03	0.0089	0.0038 *
Moon	40266-04-03 12:29 G	16428006.79	16428007.02	16428007.28	0.0089	0.0022
Earth	40266-04-03 15:22 G	16428006.89	16428007.14	16428007.40	0.0089	0.0018 *
Earth	40267-04-06 03:22 G	16428374.39	16428374.64	16428374.90	0.0089	0.0004
Moon	40267-04-06 05:17 G	16428374.46	16428374.72	16428374.99	0.0089	0.0008 *
Moon	40268-04-07 14:24 G	16428741.87	16428742.10	16428742.35	0.0089	0.0024
Earth	40268-04-07 15:36 G	16428741.91	16428742.15	16428742.40	0.0089	0.0027 *
Moon	40269-04-10 02:24 G	16429109.41	16429109.60	16429109.84	0.0089	0.0053
Earth	40269-04-10 03:22 G	16429109.45	16429109.64	16429109.88	0.0089	0.0050 *
Earth	40270-04-12 15:22 G	16429477.01	16429477.14	16429477.31	0.0090	0.0072
Moon	40270-04-12 17:02 G	16429477.07	16429477.21	16429477.38	0.0090	0.0069 *
Venus	40294-10-26 07:55 G	16438439.75	16438439.83	16438439.91	0.0089	0.0083
Venus	40295-06-08 20:38 G	16438665.24	16438665.36	16438665.52	0.0089	0.0069
Venus	40296-01-20 09:50 G	16438890.75	16438890.91	16438891.10	0.0089	0.0054
Venus	40296-09-01 23:17 G	16439116.28	16439116.47	16439116.67	0.0089	0.0040
Venus	40297-04-15 12:29 G	16439341.82	16439342.02	16439342.24	0.0089	0.0025
Venus	40297-11-27 01:41 G	16439567.36	16439567.57	16439567.79	0.0089	0.0011
Venus	40298-07-10 14:53 G	16439792.90	16439793.12	16439793.34	0.0089	0.0004
Venus	40299-02-21 03:50 G	16440018.45	16440018.66	16440018.88	0.0089	0.0018
Venus	40299-10-04 17:02 G	16440244.01	16440244.21	16440244.42	0.0089	0.0033
Venus	40300-05-18 05:46 G	16440469.58	16440469.74	16440469.95	0.0089	0.0048
Venus	40300-12-29 18:58 G	16440695.15	16440695.29	16440695.46	0.0089	0.0062
Venus	40301-08-12 08:24 G	16440920.74	16440920.85	16440920.97	0.0089	0.0076

Mars	40320-02-08 05:17 G	16447674.48	16447674.72	16447674.98	0.0089	0.0044
Mercury	40321-08-06 00:29 G	16448219.50	16448219.52	16448219.56	0.0089	0.0086
Mercury	40321-11-02 01:55 G	16448307.52	16448307.58	16448307.64	0.0089	0.0078
Mars	40322-01-01 14:53 G	16448367.85	16448368.12	16448368.40	0.0089	0.0027
Mercury	40322-01-29 03:07 G	16448395.56	16448395.63	16448395.71	0.0089	0.0071
Mercury	40322-04-27 04:19 G	16448483.60	16448483.68	16448483.78	0.0089	0.0064
Mercury	40322-07-24 05:46 G	16448571.64	16448571.74	16448571.84	0.0089	0.0056
Mercury	40322-10-20 06:58 G	16448659.68	16448659.79	16448659.90	0.0089	0.0049
Mercury	40323-01-16 08:10 G	16448747.73	16448747.84	16448747.96	0.0089	0.0041
Mercury	40323-04-14 09:36 G	16448835.78	16448835.90	16448836.02	0.0089	0.0034
Mercury	40323-07-11 10:48 G	16448923.83	16448923.95	16448924.08	0.0089	0.0027
Mercury	40323-10-07 12:00 G	16449011.88	16449012.00	16449012.13	0.0089	0.0019
Mercury	40324-01-03 13:26 G	16449099.93	16449100.06	16449100.19	0.0089	0.0012
Mercury	40324-03-31 14:38 G	16449187.98	16449188.11	16449188.25	0.0089	0.0005
Mercury	40324-06-27 16:05 G	16449276.03	16449276.17	16449276.30	0.0089	0.0004
Mercury	40324-09-23 17:17 G	16449364.09	16449364.22	16449364.35	0.0089	0.0011
Mercury	40324-12-20 18:29 G	16449452.14	16449452.27	16449452.40	0.0089	0.0018
Mercury	40325-03-18 19:41 G	16449540.20	16449540.32	16449540.45	0.0089	0.0026
Mercury	40325-06-14 21:07 G	16449628.26	16449628.38	16449628.50	0.0089	0.0033
Mercury	40325-09-10 22:19 G	16449716.32	16449716.43	16449716.55	0.0088	0.0040
Mercury	40325-12-07 23:46 G	16449804.38	16449804.49	16449804.60	0.0088	0.0048
Mercury	40326-03-06 00:43 G	16449892.44	16449892.53	16449892.64	0.0088	0.0056
Mercury	40326-06-02 02:10 G	16449980.50	16449980.59	16449980.69	0.0088	0.0063
Mercury	40326-08-29 03:22 G	16450068.57	16450068.64	16450068.73	0.0088	0.0070
Mercury	40326-11-25 04:48 G	16450156.64	16450156.70	16450156.77	0.0088	0.0078
Mercury	40327-02-21 05:46 G	16450244.72	16450244.74	16450244.79	0.0088	0.0086
Moon	40345-09-29 18:58 G	16457040.13	16457040.29	16457040.48	0.0088	0.0065
Earth	40345-09-29 22:05 G	16457040.28	16457040.42	16457040.62	0.0088	0.0067 *
Earth	40346-10-02 09:50 G	16457407.70	16457407.91	16457408.15	0.0088	0.0045
Moon	40346-10-02 13:26 G	16457407.86	16457408.06	16457408.30	0.0088	0.0046 *

Moon	40347-10-04 18:14 G	16457775.02	16457775.26	16457775.52	0.0088	0.0022
Earth	40347-10-04 21:36 G	16457775.15	16457775.40	16457775.65	0.0088	0.0023 *
Earth	40348-10-06 08:38 G	16458142.61	16458142.86	16458143.12	0.0088	0.0002
Moon	40348-10-06 11:46 G	16458142.73	16458142.99	16458143.26	0.0088	0.0004 *
Moon	40349-10-08 18:29 G	16458510.03	16458510.27	16458510.52	0.0088	0.0021
Earth	40349-10-08 19:55 G	16458510.08	16458510.33	16458510.59	0.0088	0.0020 *
Earth	40350-10-11 06:43 G	16458877.58	16458877.78	16458878.03	0.0088	0.0042
Moon	40350-10-11 07:41 G	16458877.59	16458877.82	16458878.07	0.0088	0.0040 *
Earth	40351-10-13 18:00 G	16459245.09	16459245.25	16459245.45	0.0088	0.0063
Moon	40351-10-13 18:29 G	16459245.12	16459245.27	16459245.46	0.0088	0.0065 *
Moon	40352-10-15 02:53 G	16459612.56	16459612.62	16459612.73	0.0088	0.0083
Earth	40352-10-15 05:17 G	16459612.66	16459612.72	16459612.81	0.0088	0.0084 *
Venus	40377-07-25 05:02 G	16468661.66	16468661.71	16468661.78	0.0088	0.0084
Venus	40378-03-07 17:31 G	16468887.12	16468887.23	16468887.38	0.0088	0.0071
Venus	40378-10-19 06:29 G	16469112.62	16469112.77	16469112.96	0.0088	0.0057
Venus	40379-06-01 19:26 G	16469338.13	16469338.31	16469338.52	0.0088	0.0043
Venus	40380-01-13 08:24 G	16469563.65	16469563.85	16469564.07	0.0088	0.0029
Venus	40380-08-25 21:22 G	16469789.18	16469789.39	16469789.61	0.0088	0.0015
Venus	40381-04-08 10:19 G	16470014.71	16470014.93	16470015.16	0.0088	0.0002
Venus	40381-11-19 23:17 G	16470240.25	16470240.47	16470240.69	0.0088	0.0013
Venus	40382-07-03 12:00 G	16470465.80	16470466.00	16470466.22	0.0088	0.0027
Venus	40383-02-14 00:43 G	16470691.35	16470691.53	16470691.74	0.0088	0.0041
Venus	40383-09-27 14:10 G	16470916.91	16470917.09	16470917.26	0.0088	0.0055
Venus	40384-05-10 02:53 G	16471142.49	16471142.62	16471142.76	0.0088	0.0068
Venus	40384-12-21 15:36 G	16471368.09	16471368.15	16471368.24	0.0088	0.0082
Mars	40403-10-27 07:55 G	16478251.54	16478251.83	16478252.19	0.0089	0.0032
Mars	40405-09-23 00:14 G	16478948.24	16478948.51	16478948.77	0.0089	0.0057
Mercury	40406-01-08 19:55 G	16479056.28	16479056.33	16479056.43	0.0089	0.0082
Mercury	40406-04-07 00:14 G	16479144.39	16479144.51	16479144.63	0.0089	0.0070
Mercury	40406-07-04 03:50 G	16479232.52	16479232.66	16479232.81	0.0089	0.0059

Mercury	40406-09-30 07:26 G	16479320.66	16479320.81	16479320.99	0.0089	0.0048
Mercury	40406-12-27 11:02 G	16479408.80	16479408.96	16479409.15	0.0089	0.0037
Mercury	40407-03-25 14:53 G	16479496.94	16479497.12	16479497.32	0.0089	0.0026
Mercury	40407-06-21 18:43 G	16479585.09	16479585.28	16479585.48	0.0089	0.0014
Mercury	40407-09-17 22:19 G	16479673.24	16479673.43	16479673.63	0.0089	0.0004
Mercury	40407-12-15 02:10 G	16479761.39	16479761.59	16479761.78	0.0089	0.0008
Mercury	40408-03-12 05:46 G	16479849.55	16479849.74	16479849.93	0.0089	0.0019
Mercury	40408-06-08 09:22 G	16479937.71	16479937.89	16479938.08	0.0089	0.0030
Mercury	40408-09-04 13:12 G	16480025.88	16480026.05	16480026.22	0.0089	0.0041
Mercury	40408-12-01 16:48 G	16480114.04	16480114.20	16480114.36	0.0089	0.0052
Mercury	40409-02-27 20:24 G	16480202.22	16480202.35	16480202.49	0.0089	0.0063
Mercury	40409-05-26 23:31 G	16480290.40	16480290.48	16480290.61	0.0089	0.0075
Mercury	40409-08-23 03:36 G	16480378.60	16480378.65	16480378.71	0.0089	0.0085
Earth	40428-03-29 23:02 G	16487172.33	16487172.46	16487172.60	0.0089	0.0076
Moon	40428-03-30 01:41 G	16487172.47	16487172.57	16487172.71	0.0089	0.0080 *
Moon	40429-04-01 08:38 G	16487539.65	16487539.86	16487540.07	0.0089	0.0050
Earth	40429-04-01 10:48 G	16487539.76	16487539.95	16487540.17	0.0089	0.0054 *
Earth	40430-04-03 22:48 G	16487907.21	16487907.45	16487907.69	0.0089	0.0031
Moon	40430-04-04 00:00 G	16487907.26	16487907.50	16487907.74	0.0089	0.0035 *
Earth	40431-04-06 10:48 G	16488274.70	16488274.95	16488275.21	0.0089	0.0008
Moon	40431-04-06 11:02 G	16488274.71	16488274.96	16488275.21	0.0089	0.0005 *
Moon	40432-04-07 22:05 G	16488642.15	16488642.42	16488642.68	0.0089	0.0011
Earth	40432-04-07 22:48 G	16488642.20	16488642.45	16488642.71	0.0089	0.0014 *
Earth	40433-04-10 10:48 G	16489009.72	16489009.95	16489010.19	0.0089	0.0037
Moon	40433-04-10 13:12 G	16489009.84	16489010.05	16489010.28	0.0089	0.0041 *
Moon	40434-04-12 19:41 G	16489377.13	16489377.32	16489377.54	0.0089	0.0056
Earth	40434-04-12 22:48 G	16489377.28	16489377.45	16489377.66	0.0089	0.0060 *
Earth	40435-04-15 11:17 G	16489744.87	16489744.97	16489745.07	0.0090	0.0082
Moon	40435-04-15 14:10 G	16489745.04	16489745.09	16489745.19	0.0090	0.0086 *
Venus	40459-01-28 17:17 G	16498434.19	16498434.22	16498434.27	0.0089	0.0088

Venus	40459-09-11 06:29 G	16498659.66	16498659.77	16498659.90	0.0089	0.0074
Venus	40460-04-23 19:41 G	16498885.17	16498885.32	16498885.50	0.0089	0.0059
Venus	40460-12-05 09:07 G	16499110.70	16499110.88	16499111.08	0.0089	0.0045
Venus	40461-07-18 22:19 G	16499336.23	16499336.43	16499336.64	0.0089	0.0030
Venus	40462-03-01 11:31 G	16499561.77	16499561.98	16499562.20	0.0089	0.0016
Venus	40462-10-13 00:43 G	16499787.31	16499787.53	16499787.75	0.0089	0.0002
Venus	40463-05-26 13:41 G	16500012.86	16500013.07	16500013.30	0.0089	0.0013
Venus	40464-01-07 02:38 G	16500238.42	16500238.61	16500238.83	0.0089	0.0028
Venus	40464-08-19 15:50 G	16500463.98	16500464.16	16500464.36	0.0089	0.0042
Venus	40465-04-02 05:17 G	16500689.55	16500689.72	16500689.89	0.0089	0.0056
Venus	40465-11-13 17:46 G	16500915.13	16500915.24	16500915.40	0.0089	0.0071
Venus	40466-06-27 06:58 G	16501140.74	16501140.79	16501140.88	0.0089	0.0084
Mars	40483-09-23 19:26 G	16507438.13	16507438.31	16507438.49	0.0089	0.0068
Mars	40485-08-17 06:29 G	16508131.49	16508131.77	16508132.06	0.0089	0.0003
Mercury	40486-05-03 00:00 G	16508390.47	16508390.50	16508390.55	0.0089	0.0084
Mercury	40486-07-30 01:26 G	16508478.50	16508478.56	16508478.63	0.0089	0.0076
Mercury	40486-10-26 02:38 G	16508566.54	16508566.61	16508566.70	0.0089	0.0069
Mercury	40487-01-22 04:05 G	16508654.58	16508654.67	16508654.76	0.0089	0.0061
Mercury	40487-04-20 05:17 G	16508742.62	16508742.72	16508742.83	0.0089	0.0054
Mars	40487-07-11 16:05 G	16508825.05	16508825.17	16508825.36	0.0089	0.0075
Mercury	40487-07-17 06:29 G	16508830.67	16508830.77	16508830.89	0.0089	0.0046
Mercury	40487-10-13 07:55 G	16508918.71	16508918.83	16508918.95	0.0089	0.0039
Mercury	40488-01-09 09:07 G	16509006.76	16509006.88	16509007.00	0.0089	0.0032
Mercury	40488-04-06 10:19 G	16509094.81	16509094.93	16509095.06	0.0089	0.0024
Mercury	40488-07-03 11:46 G	16509182.86	16509182.99	16509183.12	0.0089	0.0017
Mercury	40488-09-29 12:58 G	16509270.91	16509271.04	16509271.17	0.0089	0.0009
Mercury	40488-12-26 14:10 G	16509358.96	16509359.09	16509359.23	0.0089	0.0004
Mercury	40489-03-24 15:36 G	16509447.02	16509447.15	16509447.28	0.0089	0.0006
Mercury	40489-06-20 16:48 G	16509535.07	16509535.20	16509535.33	0.0089	0.0013
Mercury	40489-09-16 18:00 G	16509623.13	16509623.25	16509623.38	0.0089	0.0021

Mercury	40489-12-13 19:26 G	16509711.18	16509711.31	16509711.43	0.0088	0.0028
Mercury	40490-03-11 20:38 G	16509799.24	16509799.36	16509799.48	0.0088	0.0035
Mercury	40490-06-07 21:50 G	16509887.30	16509887.41	16509887.53	0.0088	0.0043
Mercury	40490-09-03 23:02 G	16509975.36	16509975.46	16509975.58	0.0088	0.0051
Mercury	40490-12-01 00:29 G	16510063.42	16510063.52	16510063.62	0.0088	0.0058
Mercury	40491-02-27 01:41 G	16510151.49	16510151.57	16510151.67	0.0088	0.0065
Mercury	40491-05-26 02:53 G	16510239.56	16510239.62	16510239.71	0.0088	0.0073
Mercury	40491-08-22 04:05 G	16510327.63	16510327.67	16510327.74	0.0088	0.0080
Mercury	40491-11-18 05:31 G	16510415.72	16510415.73	16510415.76	0.0088	0.0088
Earth	40509-09-30 05:17 G	16516940.63	16516940.72	16516940.85	0.0088	0.0079
Moon	40509-09-30 09:07 G	16516940.75	16516940.88	16516941.03	0.0088	0.0074 *
Moon	40510-10-02 13:55 G	16517307.92	16517308.08	16517308.28	0.0088	0.0062
Earth	40510-10-02 17:02 G	16517308.03	16517308.21	16517308.42	0.0088	0.0057 *
Earth	40511-10-05 04:19 G	16517675.46	16517675.68	16517675.93	0.0088	0.0036
Moon	40511-10-05 06:43 G	16517675.53	16517675.78	16517676.03	0.0088	0.0031 *
Moon	40512-10-06 14:53 G	16518042.88	16518043.12	16518043.37	0.0088	0.0018
Earth	40512-10-06 16:05 G	16518042.92	16518043.17	16518043.43	0.0088	0.0014 *
Moon	40513-10-09 02:53 G	16518410.37	16518410.62	16518410.90	0.0088	0.0013
Earth	40513-10-09 03:36 G	16518410.39	16518410.65	16518410.91	0.0088	0.0008 *
Earth	40514-10-11 14:38 G	16518777.88	16518778.11	16518778.36	0.0088	0.0030
Moon	40514-10-11 16:05 G	16518777.94	16518778.17	16518778.42	0.0088	0.0026 *
Moon	40515-10-13 23:17 G	16519145.29	16519145.47	16519145.70	0.0088	0.0056
Earth	40515-10-14 02:10 G	16519145.38	16519145.59	16519145.80	0.0088	0.0051 *
Earth	40516-10-15 12:58 G	16519512.91	16519513.04	16519513.19	0.0088	0.0073
Moon	40516-10-15 16:05 G	16519513.04	16519513.17	16519513.35	0.0088	0.0069 *
Venus	40542-06-10 02:38 G	16528881.53	16528881.61	16528881.75	0.0088	0.0076
Venus	40543-01-21 15:36 G	16529107.01	16529107.15	16529107.33	0.0088	0.0062
Venus	40543-09-04 04:48 G	16529332.52	16529332.70	16529332.89	0.0088	0.0048
Venus	40544-04-16 17:46 G	16529558.04	16529558.24	16529558.44	0.0088	0.0034
Venus	40544-11-28 06:14 G	16529783.56	16529783.76	16529783.99	0.0088	0.0021



Venus	40545-07-11 19:12 G	16530009.09	16530009.30	16530009.53	0.0088	0.0007
Venus	40546-02-22 08:10 G	16530234.62	16530234.84	16530235.06	0.0088	0.0007
Venus	40546-10-05 21:07 G	16530460.17	16530460.38	16530460.60	0.0088	0.0021
Venus	40547-05-19 09:50 G	16530685.72	16530685.91	16530686.13	0.0088	0.0035
Venus	40547-12-30 22:34 G	16530911.28	16530911.44	16530911.64	0.0088	0.0049
Venus	40548-08-12 11:46 G	16531136.84	16531136.99	16531137.15	0.0088	0.0062
Venus	40549-03-26 00:29 G	16531362.43	16531362.52	16531362.64	0.0088	0.0076
Mars	40567-06-10 07:26 G	16538012.58	16538012.81	16538013.08	0.0089	0.0062
Mars	40569-05-06 22:19 G	16538709.12	16538709.43	16538709.78	0.0089	0.0027
Mercury	40570-10-06 17:31 G	16539227.17	16539227.23	16539227.34	0.0089	0.0080
Mercury	40571-01-02 21:36 G	16539315.28	16539315.40	16539315.53	0.0089	0.0068
Mercury	40571-04-01 01:12 G	16539403.41	16539403.55	16539403.71	0.0089	0.0057
Mercury	40571-06-28 05:02 G	16539491.55	16539491.71	16539491.88	0.0089	0.0046
Mercury	40571-09-24 08:38 G	16539579.69	16539579.86	16539580.05	0.0089	0.0035
Mercury	40571-12-21 12:14 G	16539667.83	16539668.01	16539668.21	0.0089	0.0024
Mercury	40572-03-18 16:05 G	16539755.98	16539756.17	16539756.37	0.0089	0.0013
Mercury	40572-06-14 19:55 G	16539844.14	16539844.33	16539844.53	0.0089	0.0001
Mercury	40572-09-10 23:31 G	16539932.29	16539932.48	16539932.68	0.0089	0.0010
Mercury	40572-12-08 03:22 G	16540020.45	16540020.64	16540020.83	0.0089	0.0021
Mercury	40573-03-06 06:58 G	16540108.61	16540108.79	16540108.97	0.0089	0.0032
Mercury	40573-06-02 10:34 G	16540196.77	16540196.94	16540197.11	0.0089	0.0043
Mercury	40573-08-29 13:55 G	16540284.94	16540285.08	16540285.25	0.0089	0.0055
Mercury	40573-11-25 17:31 G	16540373.12	16540373.23	16540373.38	0.0089	0.0066
Mercury	40574-02-21 21:07 G	16540461.30	16540461.38	16540461.50	0.0089	0.0077
Mercury	40574-05-21 00:43 G	16540549.52	16540549.53	16540549.58	0.0089	0.0088
Moon	40592-03-30 04:34 G	16547072.68	16547072.69	16547072.75	0.0089	0.0089
Earth	40592-03-30 06:14 G	16547072.74	16547072.76	16547072.79	0.0089	0.0089 *
Earth	40593-04-01 17:46 G	16547440.09	16547440.24	16547440.43	0.0089	0.0067
Moon	40593-04-01 18:43 G	16547440.11	16547440.28	16547440.45	0.0089	0.0068 *
Earth	40594-04-04 06:00 G	16547807.53	16547807.75	16547807.97	0.0089	0.0044

Moon	40594-04-04 06:14 G	16547807.56	16547807.76	16547808.00	0.0089	0.0043	*
Moon	40595-04-06 15:22 G	16548174.90	16548175.14	16548175.41	0.0089	0.0022	
Earth	40595-04-06 17:46 G	16548175.00	16548175.24	16548175.50	0.0089	0.0021	*
Earth	40596-04-08 05:46 G	16548542.48	16548542.74	16548543.00	0.0089	0.0002	
Moon	40596-04-08 08:24 G	16548542.60	16548542.85	16548543.10	0.0089	0.0004	*
Moon	40597-04-10 13:55 G	16548909.84	16548910.08	16548910.34	0.0089	0.0023	
Earth	40597-04-10 17:31 G	16548910.00	16548910.23	16548910.49	0.0089	0.0025	*
Earth	40598-04-13 05:17 G	16549277.52	16549277.72	16549277.96	0.0089	0.0048	
Moon	40598-04-13 09:07 G	16549277.67	16549277.88	16549278.10	0.0089	0.0049	*
Moon	40599-04-15 14:10 G	16549644.95	16549645.09	16549645.28	0.0090	0.0068	
Earth	40599-04-15 17:46 G	16549645.09	16549645.24	16549645.41	0.0090	0.0070	*
Venus	40623-12-15 15:50 G	16558654.06	16558654.16	16558654.27	0.0089	0.0079	
Venus	40624-07-28 04:48 G	16558879.57	16558879.70	16558879.87	0.0089	0.0065	
Venus	40625-03-10 18:00 G	16559105.09	16559105.25	16559105.45	0.0089	0.0051	
Venus	40625-10-22 07:41 G	16559330.62	16559330.82	16559331.02	0.0089	0.0036	
Venus	40626-06-04 20:53 G	16559556.16	16559556.37	16559556.58	0.0089	0.0021	
Venus	40627-01-16 10:05 G	16559781.70	16559781.92	16559782.14	0.0089	0.0007	
Venus	40627-08-29 23:17 G	16560007.25	16560007.47	16560007.69	0.0089	0.0007	
Venus	40628-04-11 12:29 G	16560232.81	16560233.02	16560233.24	0.0089	0.0022	
Venus	40628-11-23 01:41 G	16560458.37	16560458.57	16560458.77	0.0089	0.0036	
Venus	40629-07-06 14:24 G	16560683.94	16560684.10	16560684.30	0.0089	0.0050	
Venus	40630-02-17 03:22 G	16560909.51	16560909.64	16560909.81	0.0089	0.0065	
Venus	40630-09-30 16:34 G	16561135.10	16561135.19	16561135.31	0.0089	0.0079	
Mars	40649-04-03 19:12 G	16567895.03	16567895.30	16567895.59	0.0089	0.0022	
Mercury	40651-01-29 23:31 G	16568561.44	16568561.48	16568561.53	0.0089	0.0082	
Mars	40651-02-26 06:00 G	16568588.52	16568588.75	16568588.99	0.0089	0.0050	
Mercury	40651-04-28 00:43 G	16568649.47	16568649.53	16568649.61	0.0089	0.0074	
Mercury	40651-07-25 02:10 G	16568737.51	16568737.59	16568737.68	0.0089	0.0067	
Mercury	40651-10-21 03:22 G	16568825.55	16568825.64	16568825.74	0.0089	0.0060	
Mercury	40652-01-17 04:34 G	16568913.59	16568913.69	16568913.80	0.0089	0.0052	

Mercury	40652-04-14 06:00 G	16569001.64	16569001.75	16569001.86	0.0089	0.0045
Mercury	40652-07-11 07:12 G	16569089.68	16569089.80	16569089.92	0.0089	0.0037
Mercury	40652-10-07 08:38 G	16569177.73	16569177.86	16569177.98	0.0089	0.0030
Mercury	40653-01-03 09:50 G	16569265.78	16569265.91	16569266.04	0.0089	0.0022
Mercury	40653-04-01 11:02 G	16569353.83	16569353.96	16569354.09	0.0089	0.0015
Mercury	40653-06-28 12:29 G	16569441.89	16569442.02	16569442.15	0.0088	0.0008
Mercury	40653-09-24 13:41 G	16569529.94	16569530.07	16569530.20	0.0088	0.0000
Mercury	40653-12-21 14:53 G	16569617.99	16569618.12	16569618.26	0.0088	0.0008
Mercury	40654-03-19 16:19 G	16569706.05	16569706.18	16569706.31	0.0088	0.0015
Mercury	40654-06-15 17:31 G	16569794.10	16569794.23	16569794.36	0.0088	0.0022
Mercury	40654-09-11 18:43 G	16569882.16	16569882.28	16569882.41	0.0088	0.0030
Mercury	40654-12-08 19:55 G	16569970.22	16569970.33	16569970.46	0.0088	0.0037
Mercury	40655-03-06 21:22 G	16570058.28	16570058.39	16570058.51	0.0088	0.0044
Mercury	40655-06-02 22:19 G	16570146.34	16570146.43	16570146.55	0.0088	0.0053
Mercury	40655-08-29 23:46 G	16570234.40	16570234.49	16570234.60	0.0088	0.0060
Mercury	40655-11-26 01:12 G	16570322.47	16570322.55	16570322.64	0.0088	0.0067
Mercury	40656-02-22 02:24 G	16570410.54	16570410.60	16570410.68	0.0088	0.0074
Mercury	40656-05-20 03:50 G	16570498.61	16570498.66	16570498.71	0.0088	0.0082
Earth	40674-10-02 23:17 G	16577208.34	16577208.47	16577208.65	0.0088	0.0070
Moon	40674-10-03 01:12 G	16577208.41	16577208.55	16577208.73	0.0088	0.0070 *
Earth	40675-10-05 11:02 G	16577575.76	16577575.96	16577576.19	0.0088	0.0048
Moon	40675-10-05 11:17 G	16577575.77	16577575.97	16577576.19	0.0088	0.0047 *
Moon	40676-10-06 21:36 G	16577943.16	16577943.40	16577943.68	0.0088	0.0027
Earth	40676-10-06 22:48 G	16577943.21	16577943.45	16577943.70	0.0088	0.0026 *
Earth	40677-10-09 10:19 G	16578310.67	16578310.93	16578311.19	0.0088	0.0004
Moon	40677-10-09 12:29 G	16578310.77	16578311.02	16578311.27	0.0088	0.0004 *
Moon	40678-10-11 18:14 G	16578678.01	16578678.26	16578678.53	0.0088	0.0017
Earth	40678-10-11 21:22 G	16578678.15	16578678.39	16578678.66	0.0088	0.0018 *
Earth	40679-10-14 08:24 G	16579045.64	16579045.85	16579046.10	0.0088	0.0040
Moon	40679-10-14 12:00 G	16579045.78	16579046.00	16579046.24	0.0088	0.0039 *

Moon	40680-10-15 16:05 G	16579413.00	16579413.17	16579413.37	0.0088	0.0061
Earth	40680-10-15 19:55 G	16579413.15	16579413.33	16579413.52	0.0088	0.0061 *
Earth	40681-10-18 06:43 G	16579780.72	16579780.78	16579780.89	0.0088	0.0083
Moon	40681-10-18 09:50 G	16579780.85	16579780.91	16579781.02	0.0088	0.0083 *
Venus	40706-09-13 11:46 G	16588875.93	16588875.99	16588876.10	0.0088	0.0081
Venus	40707-04-27 00:43 G	16589101.41	16589101.53	16589101.69	0.0088	0.0067
Venus	40707-12-08 13:55 G	16589326.91	16589327.08	16589327.26	0.0088	0.0053
Venus	40708-07-21 02:24 G	16589552.41	16589552.60	16589552.81	0.0088	0.0040
Venus	40709-03-03 15:22 G	16589777.93	16589778.14	16589778.35	0.0088	0.0026
Venus	40709-10-15 04:05 G	16590003.46	16590003.67	16590003.90	0.0088	0.0013
Venus	40710-05-28 17:02 G	16590228.99	16590229.21	16590229.44	0.0088	0.0002
Venus	40711-01-09 05:46 G	16590454.53	16590454.74	16590454.96	0.0088	0.0015
Venus	40711-08-22 18:29 G	16590680.07	16590680.27	16590680.49	0.0088	0.0029
Venus	40712-04-04 07:41 G	16590905.62	16590905.82	16590906.01	0.0088	0.0042
Venus	40712-11-15 20:24 G	16591131.19	16591131.35	16591131.52	0.0088	0.0056
Venus	40713-06-29 08:53 G	16591356.76	16591356.87	16591357.02	0.0088	0.0070
Venus	40714-02-09 22:19 G	16591582.36	16591582.43	16591582.49	0.0088	0.0084
Mars	40732-12-19 19:55 G	16598469.99	16598470.33	16598470.68	0.0089	0.0005
Mars	40734-11-16 09:50 G	16599166.84	16599166.91	16599167.07	0.0089	0.0084
Mercury	40735-07-05 15:07 G	16599398.05	16599398.13	16599398.23	0.0089	0.0078
Mercury	40735-10-01 18:43 G	16599486.17	16599486.28	16599486.42	0.0089	0.0067
Mercury	40735-12-28 22:19 G	16599574.30	16599574.43	16599574.60	0.0089	0.0056
Mercury	40736-03-26 02:10 G	16599662.43	16599662.59	16599662.77	0.0089	0.0045
Mercury	40736-06-22 06:00 G	16599750.58	16599750.75	16599750.94	0.0089	0.0033
Mercury	40736-09-18 09:50 G	16599838.72	16599838.91	16599839.10	0.0089	0.0022
Mercury	40736-12-15 13:26 G	16599926.87	16599927.06	16599927.26	0.0089	0.0011
Mercury	40737-03-13 17:17 G	16600015.02	16600015.22	16600015.41	0.0089	0.0001
Mercury	40737-06-09 20:53 G	16600103.18	16600103.37	16600103.57	0.0089	0.0012
Mercury	40737-09-06 00:29 G	16600191.34	16600191.52	16600191.71	0.0089	0.0023
Mercury	40737-12-03 04:05 G	16600279.50	16600279.67	16600279.86	0.0089	0.0034

Mercury	40738-03-01 07:41 G	16600367.66	16600367.82	16600368.00	0.0089	0.0045
Mercury	40738-05-28 11:17 G	16600455.83	16600455.97	16600456.13	0.0089	0.0056
Mercury	40738-08-24 14:53 G	16600544.01	16600544.12	16600544.26	0.0089	0.0067
Mercury	40738-11-20 18:43 G	16600632.20	16600632.28	16600632.38	0.0089	0.0078
Earth	40757-04-02 23:17 G	16607340.38	16607340.47	16607340.61	0.0089	0.0080
Moon	40757-04-03 00:58 G	16607340.48	16607340.54	16607340.64	0.0089	0.0085 *
Moon	40758-04-05 09:07 G	16607707.67	16607707.88	16607708.10	0.0089	0.0053
Earth	40758-04-05 11:17 G	16607707.80	16607707.97	16607708.19	0.0089	0.0058 *
Earth	40759-04-07 23:17 G	16608075.25	16608075.47	16608075.72	0.0089	0.0035
Moon	40759-04-08 02:38 G	16608075.40	16608075.61	16608075.85	0.0089	0.0040 *
Moon	40760-04-09 07:55 G	16608442.58	16608442.83	16608443.09	0.0089	0.0008
Earth	40760-04-09 11:31 G	16608442.73	16608442.98	16608443.24	0.0089	0.0012 *
Earth	40761-04-11 23:02 G	16608810.22	16608810.46	16608810.73	0.0089	0.0012
Moon	40761-04-12 02:53 G	16608810.37	16608810.62	16608810.88	0.0089	0.0007 *
Moon	40762-04-14 08:24 G	16609177.64	16609177.85	16609178.09	0.0089	0.0039
Earth	40762-04-14 11:17 G	16609177.74	16609177.97	16609178.21	0.0089	0.0034 *
Earth	40763-04-16 23:17 G	16609545.28	16609545.47	16609545.67	0.0090	0.0057
Moon	40763-04-17 01:12 G	16609545.35	16609545.55	16609545.78	0.0090	0.0053 *
Moon	40764-04-18 10:19 G	16609912.85	16609912.93	16609913.02	0.0090	0.0084
Earth	40764-04-18 11:02 G	16609912.86	16609912.96	16609913.09	0.0090	0.0080 *
Venus	40788-03-19 00:14 G	16618648.46	16618648.51	16618648.60	0.0089	0.0085
Venus	40788-10-30 13:26 G	16618873.94	16618874.06	16618874.21	0.0089	0.0070
Venus	40789-06-13 02:24 G	16619099.45	16619099.60	16619099.79	0.0089	0.0057
Venus	40790-01-24 16:05 G	16619324.98	16619325.17	16619325.37	0.0089	0.0042
Venus	40790-09-07 05:17 G	16619550.51	16619550.72	16619550.93	0.0089	0.0028
Venus	40791-04-20 18:29 G	16619776.06	16619776.27	16619776.50	0.0089	0.0014
Venus	40791-12-02 07:55 G	16620001.61	16620001.83	16620002.05	0.0089	0.0001
Venus	40792-07-14 20:53 G	16620227.16	16620227.37	16620227.59	0.0089	0.0016
Venus	40793-02-25 10:05 G	16620452.72	16620452.92	16620453.13	0.0089	0.0030
Venus	40793-10-08 23:31 G	16620678.29	16620678.48	16620678.67	0.0089	0.0044

Venus	40794-05-22 12:14 G	16620903.86	16620904.01	16620904.19	0.0089	0.0058
Venus	40795-01-03 01:12 G	16621129.45	16621129.55	16621129.70	0.0089	0.0073
Venus	40795-08-16 14:24 G	16621355.07	16621355.10	16621355.17	0.0089	0.0086
Mars	40812-11-18 08:53 G	16627658.65	16627658.87	16627659.13	0.0089	0.0048
Mars	40814-10-12 18:14 G	16628351.99	16628352.26	16628352.54	0.0089	0.0025
Mercury	40815-07-31 21:36 G	16628644.39	16628644.40	16628644.42	0.0089	0.0088
Mercury	40815-10-27 22:48 G	16628732.41	16628732.45	16628732.51	0.0089	0.0080
Mercury	40816-01-24 00:14 G	16628820.44	16628820.51	16628820.58	0.0089	0.0073
Mercury	40816-04-21 01:26 G	16628908.48	16628908.56	16628908.65	0.0089	0.0066
Mercury	40816-07-18 02:38 G	16628996.52	16628996.61	16628996.71	0.0089	0.0058
Mercury	40816-10-14 04:05 G	16629084.56	16629084.67	16629084.78	0.0089	0.0051
Mercury	40817-01-10 05:17 G	16629172.61	16629172.72	16629172.84	0.0089	0.0043
Mercury	40817-04-08 06:43 G	16629260.66	16629260.78	16629260.90	0.0089	0.0036
Mercury	40817-07-05 07:55 G	16629348.71	16629348.83	16629348.95	0.0089	0.0028
Mercury	40817-10-01 09:07 G	16629436.75	16629436.88	16629437.01	0.0089	0.0021
Mercury	40817-12-28 10:34 G	16629524.81	16629524.94	16629525.07	0.0089	0.0014
Mercury	40818-03-26 11:46 G	16629612.86	16629612.99	16629613.12	0.0088	0.0006
Mercury	40818-06-22 12:58 G	16629700.91	16629701.04	16629701.17	0.0088	0.0002
Mercury	40818-09-18 14:10 G	16629788.96	16629789.09	16629789.23	0.0088	0.0009
Mercury	40818-12-15 15:36 G	16629877.02	16629877.15	16629877.28	0.0088	0.0016
Mercury	40819-03-13 16:48 G	16629965.08	16629965.20	16629965.33	0.0088	0.0024
Mercury	40819-06-09 18:00 G	16630053.13	16630053.25	16630053.38	0.0088	0.0031
Mercury	40819-09-05 19:12 G	16630141.19	16630141.30	16630141.43	0.0088	0.0039
Mercury	40819-12-02 20:38 G	16630229.25	16630229.36	16630229.47	0.0088	0.0046
Mercury	40820-02-28 21:50 G	16630317.31	16630317.41	16630317.52	0.0088	0.0054
Mercury	40820-05-26 23:17 G	16630405.38	16630405.47	16630405.56	0.0088	0.0061
Mercury	40820-08-23 00:14 G	16630493.44	16630493.51	16630493.61	0.0088	0.0069
Mercury	40820-11-19 01:41 G	16630581.51	16630581.57	16630581.64	0.0088	0.0076
Mercury	40821-02-15 02:53 G	16630669.59	16630669.62	16630669.67	0.0088	0.0083
Moon	40838-10-03 05:46 G	16637108.66	16637108.74	16637108.88	0.0088	0.0079

Earth	40838-10-03 05:31 G	16637108.67	16637108.73	16637108.84	0.0088	0.0083	*
Moon	40839-10-05 14:53 G	16637475.96	16637476.12	16637476.32	0.0088	0.0065	
Earth	40839-10-05 17:02 G	16637476.05	16637476.21	16637476.42	0.0088	0.0061	*
Earth	40840-10-07 04:48 G	16637843.48	16637843.70	16637843.94	0.0088	0.0039	
Moon	40840-10-07 07:26 G	16637843.59	16637843.81	16637844.05	0.0088	0.0035	*
Moon	40841-10-09 12:43 G	16638210.79	16638211.03	16638211.30	0.0088	0.0022	
Earth	40841-10-09 16:19 G	16638210.94	16638211.18	16638211.45	0.0088	0.0017	*
Earth	40842-10-12 03:50 G	16638578.40	16638578.66	16638578.92	0.0088	0.0005	
Moon	40842-10-12 07:26 G	16638578.55	16638578.81	16638579.07	0.0088	0.0010	*
Moon	40843-10-14 11:46 G	16638945.76	16638945.99	16638946.25	0.0088	0.0023	
Earth	40843-10-14 15:22 G	16638945.89	16638946.14	16638946.39	0.0088	0.0027	*
Earth	40844-10-16 02:24 G	16639313.40	16639313.60	16639313.83	0.0088	0.0049	
Moon	40844-10-16 05:17 G	16639313.53	16639313.72	16639313.95	0.0088	0.0054	*
Moon	40845-10-18 12:00 G	16639680.86	16639681.00	16639681.18	0.0088	0.0067	
Earth	40845-10-18 13:26 G	16639680.93	16639681.06	16639681.23	0.0088	0.0071	*
Venus	40870-12-15 20:24 G	16648870.32	16648870.35	16648870.41	0.0088	0.0086	
Venus	40871-07-29 08:53 G	16649095.77	16649095.87	16649096.02	0.0088	0.0073	
Venus	40872-03-10 21:50 G	16649321.27	16649321.41	16649321.59	0.0088	0.0059	
Venus	40872-10-22 11:17 G	16649546.78	16649546.97	16649547.15	0.0088	0.0045	
Venus	40873-06-04 23:46 G	16649772.29	16649772.49	16649772.70	0.0088	0.0032	
Venus	40874-01-16 12:43 G	16649997.81	16649998.03	16649998.25	0.0088	0.0018	
Venus	40874-08-30 01:26 G	16650223.34	16650223.56	16650223.79	0.0088	0.0005	
Venus	40875-04-12 14:24 G	16650448.88	16650449.10	16650449.32	0.0088	0.0009	
Venus	40875-11-24 02:53 G	16650674.42	16650674.62	16650674.85	0.0088	0.0023	
Venus	40876-07-06 15:50 G	16650899.96	16650900.16	16650900.37	0.0088	0.0036	
Venus	40877-02-17 04:19 G	16651125.52	16651125.68	16651125.88	0.0088	0.0050	
Venus	40877-09-30 17:46 G	16651351.09	16651351.24	16651351.39	0.0088	0.0063	
Venus	40878-05-14 06:14 G	16651576.67	16651576.76	16651576.88	0.0088	0.0077	
Mars	40896-08-01 14:10 G	16658230.79	16658231.09	16658231.42	0.0089	0.0039	
Mars	40898-06-29 05:46 G	16658927.47	16658927.74	16658928.03	0.0089	0.0051	

Mercury	40900-01-03 08:10 G	16659480.84	16659480.84	16659480.87	0.0089	0.0089
Mercury	40900-04-01 11:46 G	16659568.92	16659568.99	16659569.11	0.0089	0.0078
Mercury	40900-06-28 15:50 G	16659657.04	16659657.16	16659657.30	0.0089	0.0066
Mercury	40900-09-24 19:26 G	16659745.17	16659745.31	16659745.47	0.0089	0.0055
Mercury	40900-12-21 23:02 G	16659833.30	16659833.46	16659833.64	0.0089	0.0044
Mercury	40901-03-20 02:53 G	16659921.44	16659921.62	16659921.81	0.0089	0.0033
Mercury	40901-06-16 06:29 G	16660009.59	16660009.77	16660009.97	0.0089	0.0022
Mercury	40901-09-12 10:19 G	16660097.74	16660097.93	16660098.13	0.0089	0.0011
Mercury	40901-12-09 14:10 G	16660185.89	16660186.09	16660186.29	0.0089	0.0001
Mercury	40902-03-07 17:46 G	16660274.05	16660274.24	16660274.44	0.0089	0.0012
Mercury	40902-06-03 21:22 G	16660362.21	16660362.39	16660362.58	0.0089	0.0023
Mercury	40902-08-31 01:12 G	16660450.37	16660450.55	16660450.73	0.0089	0.0034
Mercury	40902-11-27 04:19 G	16660538.53	16660538.68	16660538.87	0.0089	0.0046
Mercury	40903-02-23 08:10 G	16660626.70	16660626.84	16660627.00	0.0089	0.0057
Mercury	40903-05-22 11:46 G	16660714.88	16660714.99	16660715.13	0.0089	0.0068
Mercury	40903-08-18 15:22 G	16660803.07	16660803.14	16660803.25	0.0089	0.0079
Jupiter	40919-06-21 21:50 G	16666588.97	16666589.41	16666589.93	0.0089	0.0041
Earth	40922-04-05 16:19 G	16667608.05	16667608.18	16667608.36	0.0089	0.0072
Moon	40922-04-05 20:10 G	16667608.20	16667608.34	16667608.50	0.0089	0.0072 *
Moon	40923-04-08 00:43 G	16667975.34	16667975.53	16667975.76	0.0089	0.0050
Earth	40923-04-08 04:34 G	16667975.49	16667975.69	16667975.92	0.0089	0.0049 *
Earth	40924-04-09 16:19 G	16668342.95	16668343.18	16668343.44	0.0089	0.0026
Moon	40924-04-09 19:26 G	16668343.06	16668343.31	16668343.56	0.0089	0.0026 *
Moon	40925-04-12 01:55 G	16668710.34	16668710.58	16668710.83	0.0089	0.0003
Earth	40925-04-12 04:34 G	16668710.43	16668710.69	16668710.95	0.0089	0.0003 *
Earth	40926-04-14 16:19 G	16669077.94	16669078.18	16669078.43	0.0090	0.0020
Moon	40926-04-14 17:17 G	16669077.98	16669078.22	16669078.49	0.0090	0.0021 *
Earth	40927-04-17 03:50 G	16669445.45	16669445.66	16669445.90	0.0090	0.0044
Moon	40927-04-17 04:05 G	16669445.47	16669445.67	16669445.90	0.0090	0.0044 *
Moon	40928-04-18 14:53 G	16669812.96	16669813.12	16669813.32	0.0090	0.0066



Earth	40928-04-18 15:36 G	16669813.01	16669813.15	16669813.35	0.0090	0.0067 *
Earth	40929-04-21 03:50 G	16670180.66	16670180.66	16670180.70	0.0090	0.0089
Venus	40953-02-01 21:22 G	16678868.31	16678868.39	16678868.53	0.0089	0.0077
Venus	40953-09-15 11:17 G	16679093.81	16679093.97	16679094.13	0.0089	0.0062
Venus	40954-04-29 00:29 G	16679319.34	16679319.52	16679319.71	0.0089	0.0048
Venus	40954-12-10 13:41 G	16679544.87	16679545.07	16679545.28	0.0089	0.0034
Venus	40955-07-24 02:38 G	16679770.41	16679770.61	16679770.84	0.0089	0.0020
Venus	40956-03-05 16:05 G	16679995.95	16679996.17	16679996.39	0.0089	0.0005
Venus	40956-10-17 05:17 G	16680221.51	16680221.72	16680221.94	0.0089	0.0009
Venus	40957-05-30 18:29 G	16680447.06	16680447.27	16680447.49	0.0089	0.0023
Venus	40958-01-11 07:26 G	16680672.62	16680672.81	16680673.02	0.0089	0.0038
Venus	40958-08-24 20:38 G	16680898.19	16680898.36	16680898.55	0.0089	0.0052
Venus	40959-04-07 10:05 G	16681123.78	16681123.92	16681124.07	0.0089	0.0066
Venus	40959-11-18 23:17 G	16681349.38	16681349.47	16681349.57	0.0089	0.0080
Mars	40976-07-04 19:55 G	16687422.20	16687422.33	16687422.52	0.0089	0.0074
Mars	40978-05-29 07:55 G	16688115.54	16688115.83	16688116.11	0.0089	0.0002
Mars	40980-04-21 17:02 G	16688809.05	16688809.21	16688809.39	0.0089	0.0071
Mercury	40980-04-27 20:53 G	16688815.35	16688815.37	16688815.40	0.0089	0.0087
Mercury	40980-07-24 21:50 G	16688903.37	16688903.41	16688903.48	0.0089	0.0080
Mercury	40980-10-20 23:31 G	16688991.40	16688991.48	16688991.55	0.0089	0.0072
Mercury	40981-01-17 00:29 G	16689079.44	16689079.52	16689079.62	0.0089	0.0065
Mercury	40981-04-15 01:41 G	16689167.49	16689167.57	16689167.68	0.0089	0.0058
Mercury	40981-07-12 03:07 G	16689255.53	16689255.63	16689255.75	0.0089	0.0050
Mercury	40981-10-08 04:19 G	16689343.58	16689343.68	16689343.80	0.0089	0.0043
Mercury	40982-01-04 05:46 G	16689431.62	16689431.74	16689431.86	0.0089	0.0035
Mercury	40982-04-02 06:58 G	16689519.67	16689519.79	16689519.92	0.0089	0.0028
Mercury	40982-06-29 08:24 G	16689607.72	16689607.85	16689607.98	0.0089	0.0020
Mercury	40982-09-25 09:36 G	16689695.77	16689695.90	16689696.03	0.0088	0.0013
Mercury	40982-12-22 11:02 G	16689783.82	16689783.96	16689784.09	0.0088	0.0006
Mercury	40983-03-20 12:14 G	16689871.88	16689872.01	16689872.14	0.0088	0.0002

Mercury	40983-06-16 13:26 G	16689959.93	16689960.06	16689960.19	0.0088	0.0010
Mercury	40983-09-12 14:38 G	16690047.99	16690048.11	16690048.25	0.0088	0.0018
Mercury	40983-12-09 16:05 G	16690136.04	16690136.17	16690136.30	0.0088	0.0025
Mercury	40984-03-06 17:17 G	16690224.10	16690224.22	16690224.35	0.0088	0.0032
Mercury	40984-06-02 18:29 G	16690312.16	16690312.27	16690312.39	0.0088	0.0040
Mercury	40984-08-29 19:41 G	16690400.22	16690400.32	16690400.44	0.0088	0.0047
Mercury	40984-11-25 21:07 G	16690488.28	16690488.38	16690488.49	0.0088	0.0055
Mercury	40985-02-21 22:19 G	16690576.34	16690576.43	16690576.53	0.0088	0.0062
Mercury	40985-05-20 23:31 G	16690664.41	16690664.48	16690664.57	0.0088	0.0070
Mercury	40985-08-17 00:43 G	16690752.48	16690752.53	16690752.61	0.0088	0.0078
Mercury	40985-11-13 02:10 G	16690840.56	16690840.59	16690840.64	0.0088	0.0085

# 42ND MILLENNIUM CE

**This is a list of transits visible from Neptune in the 42nd millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	41003-10-06 22:48 G		16697376.33	16697376.45	16697376.61	0.0088	0.0074	
Moon	41003-10-07 01:55 G		16697376.49	16697376.58	16697376.74	0.0088	0.0077	*
Moon	41004-10-08 07:12 G		16697743.59	16697743.80	16697744.02	0.0088	0.0049	
Earth	41004-10-08 10:19 G		16697743.74	16697743.93	16697744.16	0.0088	0.0052	*
Earth	41005-10-10 21:36 G		16698111.17	16698111.40	16698111.66	0.0088	0.0030	
Moon	41005-10-11 01:26 G		16698111.32	16698111.56	16698111.81	0.0088	0.0031	*
Moon	41006-10-13 06:14 G		16698478.51	16698478.76	16698479.02	0.0088	0.0006	

Earth	41006-10-13 09:22 G	16698478.63	16698478.89	16698479.15	0.0088	0.0008	*
Earth	41007-10-15 20:24 G	16698846.11	16698846.35	16698846.62	0.0088	0.0015	
Moon	41007-10-15 22:34 G	16698846.18	16698846.44	16698846.71	0.0088	0.0013	*
Moon	41008-10-17 06:29 G	16699213.56	16699213.77	16699214.01	0.0088	0.0038	
Earth	41008-10-17 07:41 G	16699213.60	16699213.82	16699214.07	0.0088	0.0037	*
Moon	41009-10-19 18:58 G	16699581.08	16699581.29	16699581.49	0.0088	0.0056	
Earth	41009-10-19 18:43 G	16699581.12	16699581.28	16699581.50	0.0088	0.0059	*
Earth	41010-10-22 05:46 G	16699948.67	16699948.74	16699948.88	0.0088	0.0081	
Moon	41010-10-22 08:10 G	16699948.76	16699948.84	16699948.93	0.0088	0.0082	*
Venus	41035-11-01 17:17 G	16709090.14	16709090.22	16709090.34	0.0088	0.0078	
Venus	41036-06-14 06:00 G	16709315.62	16709315.75	16709315.92	0.0088	0.0065	
Venus	41037-01-25 18:58 G	16709541.12	16709541.29	16709541.48	0.0088	0.0051	
Venus	41037-09-08 07:41 G	16709766.64	16709766.82	16709767.04	0.0088	0.0038	
Venus	41038-04-21 20:53 G	16709992.16	16709992.37	16709992.58	0.0088	0.0024	
Venus	41038-12-03 09:36 G	16710217.68	16710217.90	16710218.12	0.0088	0.0011	
Venus	41039-07-16 22:19 G	16710443.21	16710443.43	16710443.65	0.0088	0.0003	
Venus	41040-02-27 11:02 G	16710668.75	16710668.96	16710669.18	0.0088	0.0017	
Venus	41040-10-10 00:00 G	16710894.30	16710894.50	16710894.71	0.0088	0.0030	
Venus	41041-05-23 12:29 G	16711119.85	16711120.02	16711120.23	0.0088	0.0044	
Venus	41042-01-04 01:12 G	16711345.40	16711345.55	16711345.74	0.0088	0.0057	
Venus	41042-08-17 14:24 G	16711570.97	16711571.10	16711571.23	0.0088	0.0070	
Venus	41043-03-31 02:53 G	16711796.57	16711796.62	16711796.70	0.0088	0.0084	
Mars	41060-03-16 08:38 G	16717991.67	16717991.86	16717992.06	0.0089	0.0073	
Mars	41062-02-10 23:46 G	16718688.15	16718688.49	16718688.84	0.0089	0.0017	
Mercury	41064-10-01 05:17 G	16719651.70	16719651.72	16719651.75	0.0089	0.0088	
Mercury	41064-12-28 08:53 G	16719739.78	16719739.87	16719739.98	0.0089	0.0077	
Mercury	41065-03-26 12:29 G	16719827.90	16719828.02	16719828.17	0.0089	0.0066	
Mercury	41065-06-22 16:05 G	16719916.03	16719916.17	16719916.34	0.0089	0.0055	
Mercury	41065-09-18 19:55 G	16720004.17	16720004.33	16720004.51	0.0089	0.0044	
Mercury	41065-12-15 23:46 G	16720092.31	16720092.49	16720092.68	0.0089	0.0032	

Mercury	41066-03-14 03:36 G	16720180.46	16720180.65	16720180.84	0.0089	0.0021
Mercury	41066-06-10 07:12 G	16720268.61	16720268.80	16720269.00	0.0089	0.0010
Mercury	41066-09-06 11:02 G	16720356.76	16720356.96	16720357.15	0.0089	0.0002
Mercury	41066-12-03 14:38 G	16720444.92	16720445.11	16720445.31	0.0089	0.0012
Mercury	41067-03-01 18:14 G	16720533.07	16720533.26	16720533.45	0.0089	0.0024
Mercury	41067-05-28 21:50 G	16720621.24	16720621.41	16720621.60	0.0089	0.0035
Mercury	41067-08-25 01:26 G	16720709.40	16720709.56	16720709.74	0.0089	0.0046
Mercury	41067-11-21 05:02 G	16720797.57	16720797.71	16720797.87	0.0089	0.0057
Mercury	41068-02-17 08:38 G	16720885.75	16720885.86	16720886.00	0.0089	0.0068
Mercury	41068-05-15 12:14 G	16720973.94	16720974.01	16720974.11	0.0089	0.0079
Earth	41086-04-05 20:53 G	16727508.31	16727508.37	16727508.45	0.0089	0.0086
Earth	41087-04-08 08:10 G	16727875.69	16727875.84	16727876.05	0.0089	0.0064
Moon	41087-04-08 11:02 G	16727875.79	16727875.96	16727876.18	0.0089	0.0059 *
Moon	41088-04-09 19:12 G	16728243.10	16728243.30	16728243.53	0.0089	0.0045
Earth	41088-04-09 20:53 G	16728243.14	16728243.37	16728243.60	0.0089	0.0040 *
Earth	41089-04-12 08:53 G	16728610.62	16728610.87	16728611.12	0.0089	0.0017
Moon	41089-04-12 09:22 G	16728610.63	16728610.89	16728611.16	0.0089	0.0013 *
Earth	41090-04-14 20:38 G	16728978.11	16728978.36	16728978.62	0.0089	0.0007
Moon	41090-04-14 21:22 G	16728978.15	16728978.39	16728978.64	0.0089	0.0003 *
Moon	41091-04-17 06:14 G	16729345.52	16729345.76	16729346.01	0.0090	0.0034
Earth	41091-04-17 08:24 G	16729345.62	16729345.85	16729346.11	0.0090	0.0030 *
Earth	41092-04-18 20:24 G	16729713.15	16729713.35	16729713.57	0.0090	0.0053
Moon	41092-04-18 22:48 G	16729713.26	16729713.45	16729713.68	0.0090	0.0049 *
Moon	41093-04-21 04:34 G	16730080.60	16730080.69	16730080.82	0.0090	0.0081
Earth	41093-04-21 08:24 G	16730080.73	16730080.85	16730081.00	0.0090	0.0076 *
Venus	41117-05-08 05:17 G	16738862.66	16738862.72	16738862.83	0.0090	0.0083
Venus	41117-12-19 18:29 G	16739088.15	16739088.27	16739088.43	0.0089	0.0069
Venus	41118-08-02 07:41 G	16739313.66	16739313.82	16739314.01	0.0089	0.0055
Venus	41119-03-15 21:22 G	16739539.19	16739539.39	16739539.59	0.0089	0.0040
Venus	41119-10-27 10:34 G	16739764.73	16739764.94	16739765.15	0.0089	0.0026

Venus	41120-06-08 23:46 G	16739990.27	16739990.49	16739990.71	0.0089	0.0012
Venus	41121-01-20 12:58 G	16740215.82	16740216.04	16740216.26	0.0089	0.0003
Venus	41121-09-03 01:55 G	16740441.37	16740441.58	16740441.80	0.0089	0.0017
Venus	41122-04-16 15:22 G	16740666.94	16740667.14	16740667.35	0.0089	0.0031
Venus	41122-11-28 04:34 G	16740892.51	16740892.69	16740892.88	0.0089	0.0045
Venus	41123-07-11 17:46 G	16741118.08	16741118.24	16741118.41	0.0089	0.0059
Venus	41124-02-22 06:58 G	16741343.67	16741343.79	16741343.92	0.0089	0.0073
Venus	41124-10-04 20:10 G	16741569.29	16741569.34	16741569.39	0.0089	0.0087
Mars	41142-01-13 17:31 G	16747878.97	16747879.23	16747879.51	0.0089	0.0028
Mars	41143-12-08 04:19 G	16748572.45	16748572.68	16748572.94	0.0089	0.0045
Mercury	41145-01-24 20:10 G	16748986.31	16748986.34	16748986.36	0.0089	0.0086
Mercury	41145-04-22 21:07 G	16749074.33	16749074.38	16749074.45	0.0089	0.0079
Mercury	41145-07-19 22:19 G	16749162.37	16749162.43	16749162.52	0.0089	0.0072
Mercury	41145-10-15 23:46 G	16749250.41	16749250.49	16749250.59	0.0089	0.0064
Mercury	41146-01-12 00:58 G	16749338.45	16749338.54	16749338.65	0.0089	0.0057
Mercury	41146-04-10 02:10 G	16749426.49	16749426.59	16749426.71	0.0089	0.0050
Mercury	41146-07-07 03:36 G	16749514.54	16749514.65	16749514.77	0.0089	0.0042
Mercury	41146-10-03 04:48 G	16749602.59	16749602.70	16749602.83	0.0089	0.0035
Mercury	41146-12-30 06:14 G	16749690.63	16749690.76	16749690.88	0.0089	0.0027
Mercury	41147-03-28 07:26 G	16749778.68	16749778.81	16749778.94	0.0089	0.0020
Mercury	41147-06-24 08:38 G	16749866.73	16749866.86	16749867.00	0.0089	0.0012
Mercury	41147-09-20 10:05 G	16749954.79	16749954.92	16749955.05	0.0089	0.0005
Mercury	41147-12-17 11:17 G	16750042.84	16750042.97	16750043.10	0.0089	0.0003
Mercury	41148-03-14 12:29 G	16750130.89	16750131.02	16750131.16	0.0088	0.0011
Mercury	41148-06-10 13:55 G	16750218.95	16750219.08	16750219.21	0.0088	0.0018
Mercury	41148-09-06 15:07 G	16750307.00	16750307.13	16750307.26	0.0088	0.0025
Mercury	41148-12-03 16:19 G	16750395.06	16750395.18	16750395.31	0.0088	0.0033
Mercury	41149-03-01 17:31 G	16750483.12	16750483.23	16750483.36	0.0088	0.0040
Mercury	41149-05-28 18:58 G	16750571.18	16750571.29	16750571.40	0.0088	0.0048
Mercury	41149-08-24 19:55 G	16750659.24	16750659.33	16750659.45	0.0088	0.0056

Mercury	41149-11-20 21:22 G	16750747.31	16750747.39	16750747.49	0.0088	0.0063
Mercury	41150-02-16 22:34 G	16750835.37	16750835.44	16750835.53	0.0088	0.0071
Mercury	41150-05-16 00:00 G	16750923.45	16750923.50	16750923.57	0.0088	0.0078
Mercury	41150-08-12 01:12 G	16751011.53	16751011.55	16751011.59	0.0088	0.0085
Moon	41167-10-07 00:43 G	16757276.48	16757276.53	16757276.64	0.0088	0.0084
Earth	41167-10-07 04:48 G	16757276.69	16757276.70	16757276.75	0.0088	0.0087
Earth	41168-10-08 15:50 G	16757644.01	16757644.16	16757644.35	0.0088	0.0065
Moon	41168-10-08 19:12 G	16757644.14	16757644.30	16757644.47	0.0088	0.0068 *
Moon	41169-10-11 00:43 G	16758011.32	16758011.53	16758011.78	0.0088	0.0040
Earth	41169-10-11 03:22 G	16758011.43	16758011.64	16758011.88	0.0088	0.0043 *
Earth	41170-10-13 14:53 G	16758378.88	16758379.12	16758379.38	0.0088	0.0021
Moon	41170-10-13 16:34 G	16758378.94	16758379.19	16758379.45	0.0088	0.0024 *
Earth	41171-10-16 02:24 G	16758746.34	16758746.60	16758746.86	0.0088	0.0002
Moon	41171-10-16 02:24 G	16758746.35	16758746.60	16758746.85	0.0088	0.0005 *
Moon	41172-10-17 12:29 G	16759113.77	16759114.02	16759114.30	0.0088	0.0021
Earth	41172-10-17 13:26 G	16759113.82	16759114.06	16759114.32	0.0088	0.0024 *
Earth	41173-10-20 00:29 G	16759481.32	16759481.52	16759481.76	0.0088	0.0046
Moon	41173-10-20 02:53 G	16759481.42	16759481.62	16759481.84	0.0088	0.0050 *
Moon	41174-10-22 08:38 G	16759848.70	16759848.86	16759849.06	0.0088	0.0065
Earth	41174-10-22 12:00 G	16759848.85	16759849.00	16759849.18	0.0088	0.0068 *
Venus	41200-02-04 00:58 G	16769084.50	16769084.54	16769084.64	0.0088	0.0084
Venus	41200-09-16 14:24 G	16769309.98	16769310.10	16769310.24	0.0088	0.0070
Venus	41201-04-30 03:07 G	16769535.48	16769535.63	16769535.81	0.0088	0.0057
Venus	41201-12-11 16:05 G	16769760.98	16769761.17	16769761.37	0.0088	0.0043
Venus	41202-07-25 04:48 G	16769986.50	16769986.70	16769986.91	0.0088	0.0030
Venus	41203-03-07 17:31 G	16770212.02	16770212.23	16770212.46	0.0088	0.0017
Venus	41203-10-19 06:43 G	16770437.56	16770437.78	16770438.00	0.0088	0.0003
Venus	41204-05-31 19:26 G	16770663.09	16770663.31	16770663.53	0.0088	0.0011
Venus	41205-01-12 08:10 G	16770888.63	16770888.84	16770889.06	0.0088	0.0024
Venus	41205-08-25 21:07 G	16771114.18	16771114.38	16771114.58	0.0088	0.0037

Venus	41206-04-08 09:22 G	16771339.73	16771339.89	16771340.09	0.0088	0.0051
Venus	41206-11-19 22:34 G	16771565.30	16771565.44	16771565.59	0.0088	0.0064
Venus	41207-07-03 10:48 G	16771790.88	16771790.95	16771791.08	0.0088	0.0078
Mars	41225-09-24 16:05 G	16778448.85	16778449.17	16778449.53	0.0089	0.0019
Mars	41227-08-22 06:58 G	16779145.63	16779145.79	16779146.02	0.0089	0.0073
Mercury	41229-06-29 01:41 G	16779822.57	16779822.57	16779822.60	0.0089	0.0088
Mercury	41229-09-25 05:31 G	16779910.64	16779910.73	16779910.83	0.0089	0.0077
Mercury	41229-12-22 09:07 G	16779998.76	16779998.88	16779999.02	0.0089	0.0066
Mercury	41230-03-20 12:43 G	16780086.89	16780087.03	16780087.20	0.0089	0.0055
Mercury	41230-06-16 16:34 G	16780175.03	16780175.19	16780175.37	0.0089	0.0044
Mercury	41230-09-12 20:10 G	16780263.17	16780263.34	16780263.54	0.0089	0.0033
Mercury	41230-12-10 00:14 G	16780351.32	16780351.51	16780351.70	0.0089	0.0021
Mercury	41231-03-08 03:50 G	16780439.47	16780439.66	16780439.86	0.0089	0.0010
Mercury	41231-06-04 07:41 G	16780527.62	16780527.82	16780528.01	0.0089	0.0002
Mercury	41231-08-31 11:17 G	16780615.78	16780615.97	16780616.17	0.0089	0.0012
Mercury	41231-11-27 14:53 G	16780703.94	16780704.12	16780704.31	0.0089	0.0024
Mercury	41232-02-23 18:29 G	16780792.10	16780792.27	16780792.46	0.0089	0.0035
Mercury	41232-05-21 22:05 G	16780880.26	16780880.42	16780880.60	0.0089	0.0046
Mercury	41232-08-18 01:41 G	16780968.43	16780968.57	16780968.73	0.0089	0.0057
Mercury	41232-11-14 05:17 G	16781056.61	16781056.72	16781056.86	0.0089	0.0068
Mercury	41233-02-10 09:07 G	16781144.80	16781144.88	16781144.97	0.0089	0.0079
Moon	41251-04-08 10:48 G	16787775.86	16787775.95	16787776.11	0.0089	0.0077
Earth	41251-04-08 12:14 G	16787775.90	16787776.01	16787776.15	0.0089	0.0078 *
Moon	41252-04-09 23:31 G	16788143.29	16788143.48	16788143.69	0.0089	0.0057
Earth	41252-04-10 00:14 G	16788143.32	16788143.51	16788143.72	0.0089	0.0055 *
Earth	41253-04-12 12:14 G	16788510.78	16788511.01	16788511.26	0.0089	0.0032
Moon	41253-04-12 13:55 G	16788510.85	16788511.08	16788511.32	0.0089	0.0030 *
Moon	41254-04-14 21:50 G	16788878.15	16788878.41	16788878.67	0.0089	0.0010
Earth	41254-04-15 00:14 G	16788878.26	16788878.51	16788878.78	0.0089	0.0009 *
Earth	41255-04-17 12:00 G	16789245.76	16789246.00	16789246.26	0.0089	0.0016

Moon	41255-04-17 15:36 G	16789245.91	16789246.15	16789246.40	0.0089	0.0018	*
Moon	41256-04-18 20:38 G	16789613.14	16789613.36	16789613.60	0.0090	0.0037	
Earth	41256-04-19 00:00 G	16789613.28	16789613.50	16789613.74	0.0090	0.0039	*
Earth	41257-04-21 11:46 G	16789980.82	16789980.99	16789981.19	0.0090	0.0062	
Moon	41257-04-21 15:22 G	16789980.98	16789981.14	16789981.34	0.0090	0.0063	*
Moon	41258-04-23 20:53 G	16790348.31	16790348.37	16790348.49	0.0090	0.0084	
Earth	41258-04-23 23:46 G	16790348.43	16790348.49	16790348.59	0.0090	0.0085	*
Saturn	41268-01-18 16:19 G	16793904.68	16793905.18	16793905.76	0.0090	0.0049	
Venus	41281-08-09 12:43 G	16798857.02	16798857.03	16798857.09	0.0090	0.0089	
Venus	41282-03-23 01:55 G	16799082.49	16799082.58	16799082.73	0.0090	0.0075	
Venus	41282-11-03 15:22 G	16799308.00	16799308.14	16799308.32	0.0090	0.0061	
Venus	41283-06-17 04:34 G	16799533.52	16799533.69	16799533.89	0.0090	0.0047	
Venus	41284-01-28 17:46 G	16799759.05	16799759.24	16799759.46	0.0089	0.0033	
Venus	41284-09-10 06:58 G	16799984.59	16799984.79	16799985.01	0.0089	0.0019	
Venus	41285-04-23 20:24 G	16800210.14	16800210.35	16800210.57	0.0089	0.0005	
Venus	41285-12-05 09:36 G	16800435.69	16800435.90	16800436.12	0.0089	0.0010	
Venus	41286-07-18 22:48 G	16800661.24	16800661.45	16800661.66	0.0089	0.0024	
Venus	41287-03-01 12:00 G	16800886.80	16800887.00	16800887.20	0.0089	0.0038	
Venus	41287-10-13 01:12 G	16801112.37	16801112.55	16801112.73	0.0089	0.0052	
Venus	41288-05-25 14:24 G	16801337.95	16801338.10	16801338.25	0.0089	0.0066	
Venus	41289-01-06 03:22 G	16801563.55	16801563.64	16801563.75	0.0089	0.0080	
Mars	41305-08-30 04:19 G	16807642.47	16807642.68	16807642.91	0.0089	0.0056	
Mars	41307-07-24 14:38 G	16808335.84	16808336.11	16808336.41	0.0089	0.0018	
Mercury	41309-10-22 18:58 G	16809157.27	16809157.29	16809157.33	0.0089	0.0086	
Mercury	41310-01-18 20:10 G	16809245.29	16809245.34	16809245.41	0.0089	0.0079	
Mercury	41310-04-16 21:36 G	16809333.33	16809333.40	16809333.48	0.0089	0.0071	
Mercury	41310-07-13 22:48 G	16809421.37	16809421.45	16809421.55	0.0089	0.0064	
Mercury	41310-10-10 00:14 G	16809509.41	16809509.51	16809509.61	0.0089	0.0056	
Mercury	41311-01-06 01:26 G	16809597.46	16809597.56	16809597.67	0.0089	0.0049	
Mercury	41311-04-04 02:38 G	16809685.50	16809685.61	16809685.73	0.0089	0.0041	



Mercury	41311-07-01 04:05 G	16809773.55	16809773.67	16809773.79	0.0089	0.0034
Mercury	41311-09-27 05:17 G	16809861.60	16809861.72	16809861.85	0.0089	0.0026
Mercury	41311-12-24 06:29 G	16809949.65	16809949.77	16809949.90	0.0089	0.0019
Mercury	41312-03-21 07:55 G	16810037.70	16810037.83	16810037.96	0.0089	0.0012
Mercury	41312-06-17 09:07 G	16810125.75	16810125.88	16810126.01	0.0089	0.0004
Mercury	41312-09-13 10:19 G	16810213.80	16810213.93	16810214.06	0.0089	0.0004
Mercury	41312-12-10 11:31 G	16810301.86	16810301.98	16810302.12	0.0089	0.0012
Mercury	41313-03-08 12:58 G	16810389.91	16810390.04	16810390.17	0.0089	0.0018
Mercury	41313-06-04 14:10 G	16810477.97	16810478.09	16810478.22	0.0088	0.0026
Mercury	41313-08-31 15:22 G	16810566.02	16810566.14	16810566.27	0.0088	0.0034
Mercury	41313-11-27 16:48 G	16810654.08	16810654.20	16810654.32	0.0088	0.0041
Mercury	41314-02-23 18:00 G	16810742.14	16810742.25	16810742.36	0.0088	0.0048
Mercury	41314-05-22 19:12 G	16810830.21	16810830.30	16810830.41	0.0088	0.0056
Mercury	41314-08-18 20:24 G	16810918.27	16810918.35	16810918.45	0.0088	0.0064
Mercury	41314-11-14 21:50 G	16811006.34	16811006.41	16811006.49	0.0088	0.0071
Mercury	41315-02-10 23:02 G	16811094.41	16811094.46	16811094.53	0.0088	0.0078
Mercury	41315-05-10 00:29 G	16811182.49	16811182.52	16811182.55	0.0088	0.0086
Moon	41332-10-08 19:26 G	16817544.25	16817544.31	16817544.42	0.0088	0.0083
Earth	41332-10-08 20:53 G	16817544.28	16817544.37	16817544.51	0.0088	0.0079 *
Earth	41333-10-11 08:53 G	16817911.67	16817911.87	16817912.07	0.0088	0.0056
Moon	41333-10-11 09:07 G	16817911.69	16817911.88	16817912.11	0.0088	0.0053 *
Earth	41334-10-13 19:55 G	16818279.11	16818279.33	16818279.59	0.0088	0.0034
Moon	41334-10-13 20:53 G	16818279.14	16818279.37	16818279.59	0.0088	0.0037 *
Moon	41335-10-16 05:17 G	16818646.46	16818646.72	16818646.99	0.0088	0.0008
Earth	41335-10-16 07:26 G	16818646.56	16818646.81	16818647.08	0.0088	0.0012 *
Earth	41336-10-17 18:43 G	16819014.03	16819014.28	16819014.54	0.0088	0.0011
Moon	41336-10-17 21:22 G	16819014.14	16819014.39	16819014.65	0.0088	0.0008 *
Moon	41337-10-20 02:10 G	16819381.38	16819381.59	16819381.85	0.0088	0.0037
Earth	41337-10-20 06:00 G	16819381.52	16819381.75	16819382.00	0.0088	0.0033 *
Earth	41338-10-22 16:48 G	16819749.03	16819749.20	16819749.43	0.0088	0.0056

Moon	41338-10-22 20:38 G	16819749.17	16819749.36	16819749.59	0.0088	0.0052 *
Moon	41339-10-25 00:43 G	16820116.46	16820116.53	16820116.66	0.0088	0.0081
Earth	41339-10-25 04:05 G	16820116.58	16820116.67	16820116.82	0.0088	0.0078 *
Venus	41364-12-19 21:50 G	16829304.33	16829304.41	16829304.55	0.0088	0.0076
Venus	41365-08-02 10:34 G	16829529.81	16829529.94	16829530.12	0.0088	0.0063
Venus	41366-03-15 23:46 G	16829755.32	16829755.49	16829755.68	0.0088	0.0049
Venus	41366-10-27 12:43 G	16829980.84	16829981.03	16829981.24	0.0088	0.0036
Venus	41367-06-10 01:26 G	16830206.36	16830206.56	16830206.79	0.0088	0.0023
Venus	41368-01-21 14:24 G	16830431.88	16830432.10	16830432.32	0.0088	0.0009
Venus	41368-09-03 03:22 G	16830657.42	16830657.64	16830657.86	0.0088	0.0004
Venus	41369-04-16 16:05 G	16830882.96	16830883.17	16830883.39	0.0088	0.0018
Venus	41369-11-28 05:02 G	16831108.50	16831108.71	16831108.91	0.0088	0.0031
Venus	41370-07-11 17:17 G	16831334.05	16831334.22	16831334.43	0.0088	0.0045
Venus	41371-02-22 06:14 G	16831559.61	16831559.76	16831559.94	0.0088	0.0058
Venus	41371-10-05 19:12 G	16831785.18	16831785.30	16831785.44	0.0088	0.0071
Venus	41372-05-18 07:41 G	16832010.79	16832010.82	16832010.90	0.0088	0.0085
Mars	41389-05-08 10:05 G	16838209.67	16838209.92	16838210.23	0.0088	0.0054
Mars	41391-04-05 01:12 G	16838906.24	16838906.55	16838906.87	0.0089	0.0038
Mercury	41394-03-26 22:19 G	16839993.43	16839993.43	16839993.45	0.0089	0.0088
Mercury	41394-06-23 02:10 G	16840081.50	16840081.59	16840081.69	0.0089	0.0077
Mercury	41394-09-19 05:46 G	16840169.62	16840169.74	16840169.88	0.0089	0.0066
Mercury	41394-12-16 09:22 G	16840257.75	16840257.89	16840258.06	0.0089	0.0055
Mercury	41395-03-14 13:12 G	16840345.89	16840346.05	16840346.23	0.0089	0.0044
Mercury	41395-06-10 16:48 G	16840434.03	16840434.20	16840434.40	0.0089	0.0033
Mercury	41395-09-06 20:53 G	16840522.18	16840522.37	16840522.56	0.0089	0.0021
Mercury	41395-12-04 00:29 G	16840610.33	16840610.52	16840610.72	0.0089	0.0010
Mercury	41396-03-01 04:19 G	16840698.48	16840698.68	16840698.87	0.0089	0.0002
Mercury	41396-05-28 07:55 G	16840786.64	16840786.83	16840787.03	0.0089	0.0013
Mercury	41396-08-24 11:31 G	16840874.80	16840874.98	16840875.17	0.0089	0.0024
Mercury	41396-11-20 15:07 G	16840962.96	16840963.13	16840963.32	0.0089	0.0035

Mercury	41397-02-16 18:43 G	16841051.12	16841051.28	16841051.46	0.0089	0.0046
Mercury	41397-05-15 22:19 G	16841139.29	16841139.43	16841139.59	0.0089	0.0057
Mercury	41397-08-12 02:10 G	16841227.47	16841227.59	16841227.72	0.0089	0.0068
Mercury	41397-11-08 05:46 G	16841315.66	16841315.74	16841315.83	0.0089	0.0079
Earth	41416-04-11 03:36 G	16848043.51	16848043.65	16848043.83	0.0089	0.0070
Moon	41416-04-11 06:43 G	16848043.61	16848043.78	16848043.95	0.0089	0.0066 *
Moon	41417-04-13 12:58 G	16848410.82	16848411.04	16848411.26	0.0089	0.0049
Earth	41417-04-13 16:05 G	16848410.95	16848411.17	16848411.39	0.0089	0.0046 *
Earth	41418-04-16 03:50 G	16848778.42	16848778.66	16848778.91	0.0089	0.0023
Moon	41418-04-16 07:12 G	16848778.56	16848778.80	16848779.06	0.0089	0.0019 *
Moon	41419-04-18 12:29 G	16849145.77	16849146.02	16849146.28	0.0089	0.0003
Earth	41419-04-18 16:05 G	16849145.92	16849146.17	16849146.43	0.0089	0.0001 *
Earth	41420-04-20 03:50 G	16849513.43	16849513.66	16849513.92	0.0089	0.0024
Moon	41420-04-20 06:58 G	16849513.54	16849513.79	16849514.04	0.0089	0.0028 *
Moon	41421-04-22 13:26 G	16849880.85	16849881.06	16849881.29	0.0090	0.0044
Earth	41421-04-22 15:50 G	16849880.95	16849881.16	16849881.39	0.0090	0.0048 *
Earth	41422-04-25 03:50 G	16850248.51	16850248.66	16850248.82	0.0090	0.0071
Moon	41422-04-25 04:34 G	16850248.56	16850248.69	16850248.85	0.0090	0.0075 *
Venus	41446-06-26 09:07 G	16859076.81	16859076.88	16859076.99	0.0090	0.0081
Venus	41447-02-06 22:34 G	16859302.31	16859302.44	16859302.60	0.0090	0.0067
Venus	41447-09-20 12:00 G	16859527.83	16859528.00	16859528.18	0.0090	0.0053
Venus	41448-05-03 01:12 G	16859753.36	16859753.55	16859753.76	0.0090	0.0039
Venus	41448-12-14 14:38 G	16859978.90	16859979.11	16859979.32	0.0089	0.0025
Venus	41449-07-28 03:50 G	16860204.44	16860204.66	16860204.88	0.0089	0.0011
Venus	41450-03-10 17:02 G	16860429.99	16860430.21	16860430.43	0.0089	0.0003
Venus	41450-10-22 06:00 G	16860655.54	16860655.75	16860655.97	0.0089	0.0017
Venus	41451-06-04 18:58 G	16860881.10	16860881.29	16860881.51	0.0089	0.0032
Venus	41452-01-16 08:38 G	16861106.67	16861106.86	16861107.04	0.0089	0.0045
Venus	41452-08-28 21:36 G	16861332.24	16861332.40	16861332.57	0.0089	0.0059
Venus	41453-04-11 10:48 G	16861557.83	16861557.95	16861558.08	0.0089	0.0073

Venus	41453-11-22 23:46 G	16861783.46	16861783.49	16861783.56	0.0089	0.0087
Mars	41469-04-15 13:55 G	16867406.01	16867406.08	16867406.17	0.0089	0.0085
Mars	41471-03-10 01:12 G	16868099.27	16868099.55	16868099.84	0.0089	0.0011
Mars	41473-01-31 11:02 G	16868792.77	16868792.96	16868793.16	0.0089	0.0063
Mercury	41474-07-20 18:00 G	16869328.23	16869328.25	16869328.29	0.0089	0.0086
Mercury	41474-10-16 19:26 G	16869416.25	16869416.31	16869416.37	0.0089	0.0078
Mercury	41475-01-12 20:38 G	16869504.29	16869504.36	16869504.44	0.0089	0.0071
Mercury	41475-04-10 21:50 G	16869592.33	16869592.41	16869592.51	0.0089	0.0063
Mercury	41475-07-07 23:17 G	16869680.37	16869680.47	16869680.57	0.0089	0.0056
Mercury	41475-10-04 00:14 G	16869768.41	16869768.51	16869768.63	0.0089	0.0049
Mercury	41475-12-31 01:41 G	16869856.46	16869856.57	16869856.69	0.0089	0.0041
Mercury	41476-03-28 02:53 G	16869944.51	16869944.62	16869944.75	0.0089	0.0034
Mercury	41476-06-24 04:05 G	16870032.56	16870032.67	16870032.81	0.0089	0.0027
Mercury	41476-09-20 05:31 G	16870120.60	16870120.73	16870120.86	0.0089	0.0019
Mercury	41476-12-17 06:43 G	16870208.66	16870208.78	16870208.92	0.0089	0.0012
Mercury	41477-03-15 08:10 G	16870296.71	16870296.84	16870296.97	0.0089	0.0004
Mercury	41477-06-11 09:22 G	16870384.76	16870384.89	16870385.02	0.0089	0.0004
Mercury	41477-09-07 10:34 G	16870472.81	16870472.94	16870473.08	0.0089	0.0012
Mercury	41477-12-04 12:00 G	16870560.87	16870561.00	16870561.13	0.0089	0.0019
Mercury	41478-03-02 12:58 G	16870648.92	16870649.04	16870649.18	0.0089	0.0027
Mercury	41478-05-29 14:24 G	16870736.98	16870737.10	16870737.23	0.0089	0.0034
Mercury	41478-08-25 15:36 G	16870825.04	16870825.15	16870825.27	0.0089	0.0041
Mercury	41478-11-21 17:02 G	16870913.10	16870913.21	16870913.32	0.0088	0.0048
Mercury	41479-02-17 18:00 G	16871001.16	16871001.25	16871001.37	0.0088	0.0057
Mercury	41479-05-16 19:26 G	16871089.23	16871089.31	16871089.41	0.0088	0.0064
Mercury	41479-08-12 20:38 G	16871177.30	16871177.36	16871177.45	0.0088	0.0071
Mercury	41479-11-08 22:05 G	16871265.37	16871265.42	16871265.49	0.0088	0.0079
Mercury	41480-02-04 23:31 G	16871353.45	16871353.48	16871353.51	0.0088	0.0086
Jupiter	41494-07-07 16:34 G	16876619.66	16876620.19	16876620.76	0.0088	0.0010
Earth	41497-10-11 13:41 G	16877811.94	16877812.07	16877812.25	0.0088	0.0070

Moon	41497-10-11 15:36 G	16877812.02	16877812.15	16877812.31	0.0088	0.0071	*
Moon	41498-10-13 23:02 G	16878179.25	16878179.46	16878179.70	0.0088	0.0045	
Earth	41498-10-14 01:26 G	16878179.36	16878179.56	16878179.79	0.0088	0.0047	*
Earth	41499-10-16 12:29 G	16878546.79	16878547.02	16878547.29	0.0088	0.0025	
Moon	41499-10-16 16:05 G	16878546.94	16878547.17	16878547.42	0.0088	0.0027	*
Moon	41500-10-18 20:38 G	16878914.11	16878914.36	16878914.63	0.0088	0.0002	
Earth	41500-10-19 00:14 G	16878914.25	16878914.51	16878914.77	0.0088	0.0002	*
Earth	41501-10-21 11:31 G	16879281.73	16879281.98	16879282.23	0.0088	0.0020	
Moon	41501-10-21 15:07 G	16879281.88	16879282.13	16879282.39	0.0088	0.0017	*
Moon	41502-10-23 19:26 G	16879649.11	16879649.31	16879649.55	0.0088	0.0045	
Earth	41502-10-23 22:19 G	16879649.22	16879649.43	16879649.68	0.0088	0.0043	*
Earth	41503-10-26 09:36 G	16880016.74	16880016.90	16880017.09	0.0088	0.0065	
Moon	41503-10-26 11:17 G	16880016.81	16880016.97	16880017.18	0.0088	0.0063	*
Earth	41504-10-27 20:53 G	16880384.35	16880384.37	16880384.41	0.0088	0.0087	
Venus	41529-03-25 06:29 G	16889298.70	16889298.77	16889298.87	0.0088	0.0081	
Venus	41529-11-05 19:12 G	16889524.18	16889524.30	16889524.46	0.0088	0.0068	
Venus	41530-06-19 07:55 G	16889749.68	16889749.83	16889750.02	0.0088	0.0055	
Venus	41531-01-30 21:07 G	16889975.19	16889975.38	16889975.58	0.0088	0.0041	
Venus	41531-09-13 09:50 G	16890200.71	16890200.91	16890201.13	0.0088	0.0028	
Venus	41532-04-25 22:34 G	16890426.23	16890426.44	16890426.67	0.0088	0.0015	
Venus	41532-12-07 11:31 G	16890651.76	16890651.98	16890652.20	0.0088	0.0002	
Venus	41533-07-21 00:14 G	16890877.30	16890877.51	16890877.73	0.0088	0.0012	
Venus	41534-03-03 13:12 G	16891102.84	16891103.05	16891103.26	0.0088	0.0025	
Venus	41534-10-15 01:41 G	16891328.39	16891328.57	16891328.79	0.0088	0.0039	
Venus	41535-05-28 14:38 G	16891553.94	16891554.11	16891554.30	0.0088	0.0052	
Venus	41536-01-09 03:22 G	16891779.51	16891779.64	16891779.80	0.0088	0.0065	
Venus	41536-08-21 16:19 G	16892005.09	16892005.18	16892005.28	0.0088	0.0078	
Mars	41552-12-21 05:17 G	16897970.72	16897970.72	16897970.77	0.0088	0.0088	
Mars	41554-11-17 19:41 G	16898666.97	16898667.32	16898667.67	0.0088	0.0003	
Mercury	41558-12-23 18:58 G	16900164.29	16900164.29	16900164.32	0.0089	0.0088	

Mercury	41559-03-21 22:48 G	16900252.36	16900252.45	16900252.55	0.0089	0.0077
Mercury	41559-06-18 02:24 G	16900340.48	16900340.60	16900340.74	0.0089	0.0066
Mercury	41559-09-14 06:00 G	16900428.61	16900428.75	16900428.92	0.0089	0.0055
Mercury	41559-12-11 09:50 G	16900516.75	16900516.91	16900517.10	0.0089	0.0044
Mercury	41560-03-08 13:55 G	16900604.90	16900605.08	16900605.26	0.0089	0.0032
Mercury	41560-06-04 17:31 G	16900693.04	16900693.23	16900693.43	0.0089	0.0021
Mercury	41560-08-31 21:22 G	16900781.19	16900781.39	16900781.59	0.0089	0.0009
Mercury	41560-11-28 00:58 G	16900869.35	16900869.54	16900869.74	0.0089	0.0002
Mercury	41561-02-24 04:48 G	16900957.50	16900957.70	16900957.89	0.0089	0.0013
Mercury	41561-05-23 08:24 G	16901045.66	16901045.85	16901046.04	0.0089	0.0024
Mercury	41561-08-19 11:46 G	16901133.83	16901133.99	16901134.19	0.0089	0.0036
Mercury	41561-11-15 15:22 G	16901221.99	16901222.14	16901222.33	0.0089	0.0047
Mercury	41562-02-11 19:12 G	16901310.16	16901310.30	16901310.46	0.0089	0.0058
Mercury	41562-05-10 22:48 G	16901398.34	16901398.45	16901398.59	0.0089	0.0069
Mercury	41562-08-07 02:24 G	16901486.53	16901486.60	16901486.70	0.0089	0.0080
Moon	41580-04-11 04:19 G	16907943.57	16907943.68	16907943.80	0.0089	0.0080
Earth	41580-04-11 07:12 G	16907943.75	16907943.80	16907943.92	0.0089	0.0085 *
Earth	41581-04-13 19:12 G	16908311.13	16908311.30	16908311.50	0.0089	0.0061
Moon	41581-04-13 22:48 G	16908311.29	16908311.45	16908311.64	0.0089	0.0065 *
Moon	41582-04-16 04:05 G	16908678.45	16908678.67	16908678.92	0.0089	0.0035
Earth	41582-04-16 07:12 G	16908678.58	16908678.80	16908679.05	0.0089	0.0038 *
Earth	41583-04-18 19:26 G	16909046.06	16909046.31	16909046.57	0.0089	0.0014
Moon	41583-04-18 21:50 G	16909046.17	16909046.41	16909046.68	0.0089	0.0018 *
Moon	41584-04-20 06:14 G	16909413.52	16909413.76	16909414.01	0.0089	0.0014
Earth	41584-04-20 07:26 G	16909413.56	16909413.81	16909414.07	0.0089	0.0010 *
Earth	41585-04-22 19:12 G	16909781.08	16909781.30	16909781.55	0.0089	0.0034
Moon	41585-04-22 19:41 G	16909781.08	16909781.32	16909781.58	0.0089	0.0031 *
Earth	41586-04-25 07:12 G	16910148.62	16910148.80	16910149.01	0.0089	0.0057
Moon	41586-04-25 07:55 G	16910148.68	16910148.83	16910149.04	0.0089	0.0061 *
Moon	41587-04-27 16:48 G	16910516.08	16910516.20	16910516.35	0.0090	0.0077

Earth	41587-04-27 18:58 G	16910516.21	16910516.29	16910516.43	0.0090	0.0081	*
Saturn	41590-10-29 22:05 G	16911797.01	16911797.42	16911797.98	0.0090	0.0060	
Venus	41610-09-28 16:34 G	16919071.15	16919071.19	16919071.25	0.0090	0.0087	
Venus	41611-05-12 06:00 G	16919296.63	16919296.75	16919296.88	0.0090	0.0073	
Venus	41611-12-23 18:43 G	16919522.14	16919522.28	16919522.47	0.0090	0.0060	
Venus	41612-08-05 08:10 G	16919747.67	16919747.84	16919748.04	0.0090	0.0046	
Venus	41613-03-18 21:36 G	16919973.20	16919973.40	16919973.61	0.0090	0.0032	
Venus	41613-10-30 10:48 G	16920198.75	16920198.95	16920199.18	0.0090	0.0018	
Venus	41614-06-13 00:14 G	16920424.29	16920424.51	16920424.73	0.0089	0.0004	
Venus	41615-01-24 13:12 G	16920649.84	16920650.05	16920650.27	0.0089	0.0011	
Venus	41615-09-07 02:10 G	16920875.40	16920875.59	16920875.82	0.0089	0.0025	
Venus	41616-04-19 15:50 G	16921100.96	16921101.16	16921101.36	0.0089	0.0038	
Venus	41616-12-01 04:48 G	16921326.53	16921326.70	16921326.89	0.0089	0.0052	
Venus	41617-07-14 17:46 G	16921552.11	16921552.24	16921552.40	0.0089	0.0066	
Venus	41618-02-25 06:43 G	16921777.70	16921777.78	16921777.90	0.0089	0.0080	
Mars	41634-10-24 09:50 G	16927862.67	16927862.91	16927863.18	0.0089	0.0040	
Mars	41636-09-16 21:36 G	16928556.15	16928556.40	16928556.67	0.0089	0.0035	
Mercury	41639-04-17 17:17 G	16929499.19	16929499.22	16929499.26	0.0089	0.0085	
Mercury	41639-07-14 18:14 G	16929587.21	16929587.26	16929587.34	0.0089	0.0078	
Mercury	41639-10-10 19:55 G	16929675.25	16929675.33	16929675.41	0.0089	0.0070	
Mercury	41640-01-06 20:53 G	16929763.29	16929763.37	16929763.47	0.0089	0.0063	
Mercury	41640-04-03 22:05 G	16929851.33	16929851.42	16929851.53	0.0089	0.0056	
Mercury	41640-06-30 23:31 G	16929939.37	16929939.48	16929939.59	0.0089	0.0048	
Mercury	41640-09-27 00:43 G	16930027.42	16930027.53	16930027.65	0.0089	0.0041	
Mercury	41640-12-24 02:10 G	16930115.47	16930115.59	16930115.71	0.0089	0.0033	
Mercury	41641-03-22 03:22 G	16930203.52	16930203.64	16930203.77	0.0089	0.0026	
Mercury	41641-06-18 04:34 G	16930291.57	16930291.69	16930291.82	0.0089	0.0018	
Mercury	41641-09-14 06:00 G	16930379.62	16930379.75	16930379.88	0.0089	0.0011	
Mercury	41641-12-11 07:12 G	16930467.67	16930467.80	16930467.93	0.0089	0.0003	
Mercury	41642-03-09 08:24 G	16930555.72	16930555.85	16930555.98	0.0089	0.0005	

Mercury	41642-06-05 09:50 G	16930643.78	16930643.91	16930644.04	0.0089	0.0012
Mercury	41642-09-01 11:02 G	16930731.83	16930731.96	16930732.09	0.0089	0.0019
Mercury	41642-11-28 12:14 G	16930819.89	16930820.01	16930820.14	0.0089	0.0027
Mercury	41643-02-24 13:26 G	16930907.94	16930908.06	16930908.19	0.0089	0.0034
Mercury	41643-05-23 14:38 G	16930996.00	16930996.11	16930996.23	0.0089	0.0042
Mercury	41643-08-19 16:05 G	16931084.06	16931084.17	16931084.28	0.0089	0.0049
Mercury	41643-11-15 17:17 G	16931172.13	16931172.22	16931172.33	0.0089	0.0057
Mercury	41644-02-11 18:43 G	16931260.19	16931260.28	16931260.37	0.0089	0.0064
Mercury	41644-05-09 19:41 G	16931348.26	16931348.32	16931348.41	0.0089	0.0072
Mercury	41644-08-05 21:22 G	16931436.33	16931436.39	16931436.44	0.0089	0.0079
Mercury	41644-11-01 22:19 G	16931524.42	16931524.43	16931524.46	0.0088	0.0087
Moon	41661-10-11 15:36 G	16937712.15	16937712.15	16937712.19	0.0088	0.0088
Earth	41661-10-11 18:58 G	16937712.22	16937712.29	16937712.39	0.0088	0.0083
Earth	41662-10-14 06:14 G	16938079.59	16938079.76	16938079.97	0.0088	0.0061
Moon	41662-10-14 10:05 G	16938079.73	16938079.92	16938080.12	0.0088	0.0056 *
Moon	41663-10-16 14:10 G	16938446.88	16938447.09	16938447.34	0.0088	0.0043
Earth	41663-10-16 18:00 G	16938447.03	16938447.25	16938447.50	0.0088	0.0038 *
Earth	41664-10-18 05:31 G	16938814.49	16938814.73	16938815.00	0.0088	0.0016
Moon	41664-10-18 08:38 G	16938814.60	16938814.86	16938815.13	0.0088	0.0011 *
Moon	41665-10-20 14:38 G	16939181.86	16939182.11	16939182.37	0.0088	0.0004
Earth	41665-10-20 17:02 G	16939181.96	16939182.21	16939182.48	0.0088	0.0008 *
Earth	41666-10-23 04:19 G	16939549.44	16939549.68	16939549.93	0.0088	0.0030
Moon	41666-10-23 05:46 G	16939549.50	16939549.74	16939549.99	0.0088	0.0034 *
Earth	41667-10-25 15:07 G	16939916.95	16939917.13	16939917.36	0.0088	0.0053
Moon	41667-10-25 15:22 G	16939916.96	16939917.14	16939917.37	0.0088	0.0049 *
Moon	41668-10-27 01:12 G	16940284.47	16940284.55	16940284.70	0.0088	0.0079
Earth	41668-10-27 02:24 G	16940284.49	16940284.60	16940284.76	0.0088	0.0075 *
Venus	41693-06-26 14:53 G	16949293.10	16949293.12	16949293.19	0.0088	0.0086
Venus	41694-02-07 03:36 G	16949518.55	16949518.65	16949518.79	0.0088	0.0073
Venus	41694-09-20 16:34 G	16949744.05	16949744.19	16949744.37	0.0088	0.0060



Venus	41695-05-04 05:17 G	16949969.55	16949969.72	16949969.92	0.0088	0.0047
Venus	41695-12-15 18:00 G	16950195.06	16950195.25	16950195.47	0.0088	0.0034
Venus	41696-07-28 07:12 G	16950420.58	16950420.80	16950421.01	0.0088	0.0020
Venus	41697-03-10 19:55 G	16950646.11	16950646.33	16950646.55	0.0088	0.0007
Venus	41697-10-22 08:38 G	16950871.65	16950871.86	16950872.09	0.0088	0.0007
Venus	41698-06-04 21:22 G	16951097.19	16951097.39	16951097.62	0.0088	0.0020
Venus	41699-01-16 10:05 G	16951322.73	16951322.92	16951323.14	0.0088	0.0033
Venus	41699-08-29 23:02 G	16951548.28	16951548.46	16951548.66	0.0088	0.0046
Venus	41700-04-12 12:00 G	16951773.84	16951774.00	16951774.17	0.0088	0.0059
Venus	41700-11-24 00:58 G	16951999.42	16951999.54	16951999.67	0.0088	0.0072
Venus	41701-07-07 13:12 G	16952225.03	16952225.05	16952225.12	0.0088	0.0086
Mars	41718-07-01 16:05 G	16958427.86	16958428.17	16958428.51	0.0088	0.0032
Mars	41720-05-28 05:31 G	16959124.50	16959124.73	16959125.01	0.0089	0.0060
Mercury	41723-09-20 15:36 G	16960335.14	16960335.15	16960335.19	0.0089	0.0088
Mercury	41723-12-17 19:26 G	16960423.23	16960423.31	16960423.42	0.0089	0.0077
Mercury	41724-03-14 23:02 G	16960511.35	16960511.46	16960511.61	0.0089	0.0066
Mercury	41724-06-11 03:07 G	16960599.48	16960599.63	16960599.79	0.0089	0.0054
Mercury	41724-09-07 06:43 G	16960687.62	16960687.78	16960687.96	0.0089	0.0043
Mercury	41724-12-04 10:34 G	16960775.76	16960775.94	16960776.13	0.0089	0.0032
Mercury	41725-03-02 14:10 G	16960863.91	16960864.09	16960864.29	0.0089	0.0021
Mercury	41725-05-29 18:14 G	16960952.06	16960952.26	16960952.45	0.0089	0.0009
Mercury	41725-08-25 21:50 G	16961040.21	16961040.41	16961040.61	0.0089	0.0002
Mercury	41725-11-22 01:26 G	16961128.37	16961128.56	16961128.76	0.0089	0.0014
Mercury	41726-02-18 05:02 G	16961216.53	16961216.71	16961216.91	0.0089	0.0025
Mercury	41726-05-17 08:53 G	16961304.69	16961304.87	16961305.05	0.0089	0.0036
Mercury	41726-08-13 12:29 G	16961392.86	16961393.02	16961393.19	0.0089	0.0047
Mercury	41726-11-09 16:19 G	16961481.03	16961481.18	16961481.33	0.0089	0.0058
Mercury	41727-02-05 19:26 G	16961569.21	16961569.31	16961569.46	0.0089	0.0070
Mercury	41727-05-04 23:02 G	16961657.41	16961657.46	16961657.57	0.0089	0.0081
Moon	41745-04-13 21:50 G	16968211.28	16968211.41	16968211.57	0.0089	0.0074

Earth	41745-04-14 00:00 G	16968211.39	16968211.50	16968211.67	0.0089	0.0076	*
Earth	41746-04-16 12:00 G	16968578.81	16968579.00	16968579.22	0.0089	0.0052	
Moon	41746-04-16 13:41 G	16968578.88	16968579.07	16968579.30	0.0089	0.0054	*
Moon	41747-04-18 23:17 G	16968946.24	16968946.47	16968946.71	0.0089	0.0026	
Earth	41747-04-18 23:46 G	16968946.26	16968946.49	16968946.75	0.0089	0.0028	*
Moon	41748-04-20 10:48 G	16969313.69	16969313.95	16969314.22	0.0089	0.0006	
Earth	41748-04-20 12:00 G	16969313.74	16969314.00	16969314.25	0.0089	0.0004	*
Earth	41749-04-22 23:31 G	16969681.24	16969681.48	16969681.74	0.0089	0.0020	
Moon	41749-04-23 01:12 G	16969681.32	16969681.55	16969681.80	0.0089	0.0022	*
Moon	41750-04-25 08:38 G	16970048.65	16970048.86	16970049.12	0.0089	0.0041	
Earth	41750-04-25 11:46 G	16970048.77	16970048.99	16970049.22	0.0089	0.0043	*
Earth	41751-04-27 23:17 G	16970416.33	16970416.47	16970416.67	0.0089	0.0067	
Moon	41751-04-28 03:07 G	16970416.48	16970416.63	16970416.80	0.0089	0.0069	*
Moon	41752-04-29 07:41 G	16970783.80	16970783.82	16970783.91	0.0090	0.0088	
Venus	41775-08-14 12:43 G	16979290.96	16979291.03	16979291.16	0.0090	0.0080	
Venus	41776-03-27 02:24 G	16979516.47	16979516.60	16979516.77	0.0090	0.0066	
Venus	41776-11-07 15:50 G	16979741.99	16979742.16	16979742.35	0.0090	0.0052	
Venus	41777-06-21 05:17 G	16979967.53	16979967.72	16979967.92	0.0090	0.0038	
Venus	41778-02-01 18:29 G	16980193.06	16980193.27	16980193.49	0.0090	0.0024	
Venus	41778-09-15 07:41 G	16980418.61	16980418.82	16980419.04	0.0089	0.0010	
Venus	41779-04-28 21:07 G	16980644.17	16980644.38	16980644.60	0.0089	0.0004	
Venus	41779-12-10 10:19 G	16980869.72	16980869.93	16980870.15	0.0089	0.0018	
Venus	41780-07-22 23:17 G	16981095.28	16981095.47	16981095.69	0.0089	0.0032	
Venus	41781-03-05 12:29 G	16981320.84	16981321.02	16981321.22	0.0089	0.0045	
Venus	41781-10-17 01:55 G	16981546.42	16981546.58	16981546.74	0.0089	0.0059	
Venus	41782-05-30 14:53 G	16981772.01	16981772.12	16981772.26	0.0089	0.0073	
Venus	41783-01-11 03:50 G	16981997.62	16981997.66	16981997.73	0.0089	0.0087	
Mars	41798-06-09 19:26 G	16987626.16	16987626.31	16987626.52	0.0089	0.0069	
Mars	41800-05-04 06:58 G	16988319.51	16988319.79	16988320.08	0.0089	0.0007	
Mars	41802-03-28 18:00 G	16989013.17	16989013.25	16989013.39	0.0089	0.0082	

Mercury	41804-01-14 16:05 G	16989670.15	16989670.17	16989670.22	0.0089	0.0085
Mercury	41804-04-11 17:17 G	16989758.17	16989758.22	16989758.30	0.0089	0.0078
Mercury	41804-07-08 18:43 G	16989846.21	16989846.28	16989846.37	0.0089	0.0070
Mercury	41804-10-04 19:55 G	16989934.25	16989934.33	16989934.43	0.0089	0.0063
Mercury	41804-12-31 21:22 G	16990022.29	16990022.39	16990022.50	0.0089	0.0055
Mercury	41805-03-29 22:34 G	16990110.34	16990110.44	16990110.56	0.0089	0.0048
Mercury	41805-06-26 00:00 G	16990198.38	16990198.50	16990198.61	0.0089	0.0040
Mercury	41805-09-22 01:12 G	16990286.43	16990286.55	16990286.67	0.0089	0.0033
Mercury	41805-12-19 02:24 G	16990374.48	16990374.60	16990374.73	0.0089	0.0025
Mercury	41806-03-17 03:50 G	16990462.53	16990462.66	16990462.79	0.0089	0.0018
Mercury	41806-06-13 05:02 G	16990550.58	16990550.71	16990550.84	0.0089	0.0010
Mercury	41806-09-09 06:14 G	16990638.63	16990638.76	16990638.89	0.0089	0.0003
Mercury	41806-12-06 07:26 G	16990726.68	16990726.81	16990726.95	0.0089	0.0006
Mercury	41807-03-04 08:53 G	16990814.74	16990814.87	16990815.00	0.0089	0.0012
Mercury	41807-05-31 10:05 G	16990902.79	16990902.92	16990903.05	0.0089	0.0020
Mercury	41807-08-27 11:17 G	16990990.85	16990990.97	16990991.10	0.0089	0.0027
Mercury	41807-11-23 12:29 G	16991078.91	16991079.02	16991079.15	0.0089	0.0035
Mercury	41808-02-19 13:41 G	16991166.97	16991167.07	16991167.20	0.0089	0.0043
Mercury	41808-05-17 15:07 G	16991255.03	16991255.13	16991255.24	0.0089	0.0050
Mercury	41808-08-13 16:19 G	16991343.09	16991343.18	16991343.29	0.0089	0.0057
Mercury	41808-11-09 17:46 G	16991431.15	16991431.24	16991431.33	0.0089	0.0065
Mercury	41809-02-05 18:43 G	16991519.22	16991519.28	16991519.37	0.0089	0.0073
Mercury	41809-05-04 20:10 G	16991607.29	16991607.34	16991607.40	0.0089	0.0080
Mercury	41809-07-31 21:22 G	16991695.38	16991695.39	16991695.42	0.0089	0.0087
Moon	41826-10-15 08:38 G	16997979.73	16997979.86	16997980.00	0.0088	0.0074
Earth	41826-10-15 11:31 G	16997979.86	16997979.98	16997980.14	0.0088	0.0074 *
Earth	41827-10-17 23:31 G	16998347.27	16998347.48	16998347.69	0.0088	0.0051
Moon	41827-10-18 01:55 G	16998347.39	16998347.58	16998347.83	0.0088	0.0051 *
Moon	41828-10-19 09:36 G	16998714.67	16998714.90	16998715.15	0.0088	0.0029
Earth	41828-10-19 10:48 G	16998714.72	16998714.95	16998715.21	0.0088	0.0029 *

Earth	41829-10-21 22:34 G	16999082.19	16999082.44	16999082.71	0.0088	0.0006
Moon	41829-10-21 23:17 G	16999082.20	16999082.47	16999082.74	0.0088	0.0005 *
Earth	41830-10-24 09:50 G	16999449.66	16999449.91	16999450.17	0.0088	0.0017
Moon	41830-10-24 10:34 G	16999449.69	16999449.94	16999450.19	0.0088	0.0016 *
Moon	41831-10-26 18:29 G	16999817.06	16999817.27	16999817.53	0.0088	0.0040
Earth	41831-10-26 20:53 G	16999817.16	16999817.37	16999817.62	0.0088	0.0040 *
Earth	41832-10-28 08:38 G	17000184.68	17000184.86	17000185.04	0.0088	0.0062
Moon	41832-10-28 10:48 G	17000184.80	17000184.95	17000185.16	0.0088	0.0062 *
Moon	41833-10-30 15:36 G	17000552.13	17000552.15	17000552.24	0.0088	0.0086
Earth	41833-10-30 19:12 G	17000552.27	17000552.30	17000552.40	0.0088	0.0085
Venus	41858-05-13 12:43 G	17009512.95	17009513.03	17009513.16	0.0088	0.0078
Venus	41858-12-25 01:26 G	17009738.43	17009738.56	17009738.73	0.0088	0.0065
Venus	41859-08-07 14:10 G	17009963.93	17009964.09	17009964.29	0.0088	0.0052
Venus	41860-03-20 02:53 G	17010189.44	17010189.62	17010189.84	0.0088	0.0039
Venus	41860-10-31 15:50 G	17010414.96	17010415.16	17010415.39	0.0088	0.0026
Venus	41861-06-14 04:48 G	17010640.49	17010640.70	17010640.92	0.0088	0.0012
Venus	41862-01-25 17:31 G	17010866.01	17010866.23	17010866.46	0.0088	0.0002
Venus	41862-09-08 06:14 G	17011091.55	17011091.76	17011091.98	0.0088	0.0014
Venus	41863-04-21 19:12 G	17011317.09	17011317.30	17011317.51	0.0088	0.0027
Venus	41863-12-03 07:41 G	17011542.64	17011542.82	17011543.03	0.0088	0.0041
Venus	41864-07-15 20:24 G	17011768.19	17011768.35	17011768.54	0.0088	0.0054
Venus	41865-02-26 09:07 G	17011993.76	17011993.88	17011994.04	0.0088	0.0067
Venus	41865-10-09 22:05 G	17012219.35	17012219.42	17012219.53	0.0088	0.0080
Mars	41882-02-12 15:22 G	17018188.94	17018189.14	17018189.41	0.0088	0.0066
Mars	41884-01-10 04:48 G	17018885.38	17018885.70	17018886.05	0.0088	0.0027
Mercury	41888-06-17 12:43 G	17020506.01	17020506.03	17020506.10	0.0089	0.0087
Mercury	41888-09-13 16:48 G	17020594.11	17020594.20	17020594.31	0.0089	0.0075
Mercury	41888-12-10 20:24 G	17020682.23	17020682.35	17020682.50	0.0089	0.0064
Mercury	41889-03-09 00:14 G	17020770.36	17020770.51	17020770.68	0.0089	0.0053
Mercury	41889-06-05 03:50 G	17020858.50	17020858.66	17020858.85	0.0089	0.0042

Mercury	41889-09-01 07:55 G	17020946.65	17020946.83	17020947.02	0.0089	0.0030
Mercury	41889-11-28 11:31 G	17021034.79	17021034.98	17021035.18	0.0089	0.0019
Mercury	41890-02-24 15:22 G	17021122.95	17021123.14	17021123.34	0.0089	0.0007
Mercury	41890-05-23 19:12 G	17021211.10	17021211.30	17021211.49	0.0089	0.0004
Mercury	41890-08-19 22:48 G	17021299.26	17021299.45	17021299.64	0.0089	0.0015
Mercury	41890-11-16 02:10 G	17021387.42	17021387.59	17021387.79	0.0089	0.0027
Mercury	41891-02-12 06:00 G	17021475.58	17021475.75	17021475.94	0.0089	0.0038
Mercury	41891-05-11 09:36 G	17021563.75	17021563.90	17021564.08	0.0089	0.0049
Mercury	41891-08-07 13:12 G	17021651.92	17021652.05	17021652.21	0.0089	0.0060
Mercury	41891-11-03 17:02 G	17021740.10	17021740.21	17021740.34	0.0089	0.0071
Mercury	41892-01-30 20:38 G	17021828.30	17021828.36	17021828.45	0.0089	0.0082
Moon	41909-04-15 06:14 G	17028111.70	17028111.76	17028111.87	0.0089	0.0085
Earth	41909-04-15 05:46 G	17028111.74	17028111.74	17028111.77	0.0089	0.0089 *
Earth	41910-04-17 17:31 G	17028479.07	17028479.23	17028479.41	0.0089	0.0066
Moon	41910-04-17 18:00 G	17028479.11	17028479.25	17028479.41	0.0089	0.0070 *
Moon	41911-04-20 04:05 G	17028846.44	17028846.67	17028846.92	0.0089	0.0038
Earth	41911-04-20 05:02 G	17028846.50	17028846.71	17028846.96	0.0089	0.0043 *
Earth	41912-04-21 17:02 G	17029213.96	17029214.21	17029214.46	0.0089	0.0018
Moon	41912-04-21 19:26 G	17029214.08	17029214.31	17029214.57	0.0089	0.0024 *
Moon	41913-04-24 01:41 G	17029581.32	17029581.57	17029581.83	0.0089	0.0010
Earth	41913-04-24 05:02 G	17029581.46	17029581.71	17029581.97	0.0089	0.0005 *
Earth	41914-04-26 16:34 G	17029948.96	17029949.19	17029949.45	0.0089	0.0030
Moon	41914-04-26 20:10 G	17029949.11	17029949.34	17029949.60	0.0089	0.0025 *
Moon	41915-04-29 00:58 G	17030316.37	17030316.54	17030316.75	0.0089	0.0058
Earth	41915-04-29 04:48 G	17030316.50	17030316.70	17030316.91	0.0089	0.0053 *
Earth	41916-04-30 16:34 G	17030684.08	17030684.19	17030684.34	0.0089	0.0077
Moon	41916-04-30 19:12 G	17030684.17	17030684.30	17030684.47	0.0089	0.0073 *
Venus	41939-11-17 21:07 G	17039285.32	17039285.38	17039285.45	0.0090	0.0085
Venus	41940-06-30 09:50 G	17039510.80	17039510.91	17039511.06	0.0090	0.0072
Venus	41941-02-10 23:17 G	17039736.32	17039736.47	17039736.65	0.0090	0.0058

Venus	41941-09-24 12:43 G	17039961.85	17039962.03	17039962.23	0.0090	0.0044
Venus	41942-05-08 02:24 G	17040187.39	17040187.60	17040187.81	0.0090	0.0030
Venus	41942-12-19 15:36 G	17040412.94	17040413.15	17040413.37	0.0089	0.0016
Venus	41943-08-02 04:48 G	17040638.49	17040638.70	17040638.92	0.0089	0.0003
Venus	41944-03-14 18:00 G	17040864.04	17040864.25	17040864.48	0.0089	0.0012
Venus	41944-10-26 07:12 G	17041089.60	17041089.80	17041090.02	0.0089	0.0025
Venus	41945-06-08 20:38 G	17041315.16	17041315.36	17041315.56	0.0089	0.0039
Venus	41946-01-20 09:36 G	17041540.73	17041540.90	17041541.09	0.0089	0.0053
Venus	41946-09-02 22:34 G	17041766.31	17041766.44	17041766.61	0.0089	0.0067
Venus	41947-04-16 12:00 G	17041991.92	17041992.00	17041992.11	0.0089	0.0080
Mars	41963-12-19 17:46 G	17048082.97	17048083.24	17048083.53	0.0089	0.0022
Mars	41965-11-12 03:50 G	17048776.46	17048776.66	17048776.91	0.0089	0.0054
Mercury	41968-10-11 15:22 G	17049841.11	17049841.14	17049841.19	0.0089	0.0084
Mercury	41969-01-07 16:34 G	17049929.14	17049929.19	17049929.26	0.0089	0.0077
Mercury	41969-04-05 18:00 G	17050017.17	17050017.25	17050017.33	0.0089	0.0069
Mercury	41969-07-02 19:12 G	17050105.21	17050105.30	17050105.40	0.0089	0.0062
Mercury	41969-09-28 20:24 G	17050193.25	17050193.35	17050193.46	0.0089	0.0054
Mercury	41969-12-25 21:50 G	17050281.30	17050281.41	17050281.52	0.0089	0.0047
Mercury	41970-03-23 23:02 G	17050369.35	17050369.46	17050369.58	0.0089	0.0039
Mercury	41970-06-20 00:14 G	17050457.39	17050457.51	17050457.64	0.0089	0.0032
Mercury	41970-09-16 01:26 G	17050545.44	17050545.56	17050545.69	0.0089	0.0025
Mercury	41970-12-13 02:53 G	17050633.49	17050633.62	17050633.75	0.0089	0.0017
Mercury	41971-03-11 04:05 G	17050721.54	17050721.67	17050721.81	0.0089	0.0010
Mercury	41971-06-07 05:31 G	17050809.60	17050809.73	17050809.86	0.0089	0.0002
Mercury	41971-09-03 06:43 G	17050897.65	17050897.78	17050897.91	0.0089	0.0006
Mercury	41971-11-30 07:55 G	17050985.70	17050985.83	17050985.96	0.0089	0.0013
Mercury	41972-02-26 09:07 G	17051073.76	17051073.88	17051074.01	0.0089	0.0021
Mercury	41972-05-24 10:34 G	17051161.82	17051161.94	17051162.06	0.0089	0.0028
Mercury	41972-08-20 11:46 G	17051249.87	17051249.99	17051250.11	0.0089	0.0036
Mercury	41972-11-16 13:12 G	17051337.93	17051338.05	17051338.16	0.0089	0.0043

Mercury	41973-02-12 14:10 G	17051425.99	17051426.09	17051426.21	0.0089	0.0051
Mercury	41973-05-11 15:36 G	17051514.05	17051514.15	17051514.25	0.0089	0.0058
Mercury	41973-08-07 16:48 G	17051602.12	17051602.20	17051602.29	0.0089	0.0066
Mercury	41973-11-03 18:14 G	17051690.19	17051690.26	17051690.33	0.0089	0.0073
Mercury	41974-01-30 19:12 G	17051778.26	17051778.30	17051778.37	0.0089	0.0081
Mercury	41974-04-28 20:38 G	17051866.36	17051866.36	17051866.38	0.0089	0.0088
Earth	41990-10-15 17:31 G	17057880.21	17057880.23	17057880.27	0.0088	0.0087
Moon	41991-10-18 04:19 G	17058247.50	17058247.68	17058247.86	0.0088	0.0060
Earth	41991-10-18 04:48 G	17058247.55	17058247.70	17058247.90	0.0088	0.0065 *
Moon	41992-10-19 16:19 G	17058614.96	17058615.18	17058615.42	0.0088	0.0046
Earth	41992-10-19 16:48 G	17058614.99	17058615.20	17058615.44	0.0088	0.0042 *
Earth	41993-10-22 04:34 G	17058982.44	17058982.69	17058982.95	0.0088	0.0019
Moon	41993-10-22 06:14 G	17058982.52	17058982.76	17058983.01	0.0088	0.0015 *
Moon	41994-10-24 13:55 G	17059349.81	17059350.08	17059350.35	0.0088	0.0000
Earth	41994-10-24 16:19 G	17059349.92	17059350.18	17059350.44	0.0088	0.0004 *
Earth	41995-10-27 03:36 G	17059717.41	17059717.65	17059717.91	0.0088	0.0027
Moon	41995-10-27 06:58 G	17059717.57	17059717.79	17059718.04	0.0088	0.0032 *
Moon	41996-10-28 11:17 G	17060084.77	17060084.97	17060085.21	0.0088	0.0046
Earth	41996-10-28 14:53 G	17060084.92	17060085.12	17060085.35	0.0088	0.0050 *
Earth	41997-10-31 01:55 G	17060452.46	17060452.58	17060452.75	0.0088	0.0073
Moon	41997-10-31 05:46 G	17060452.63	17060452.74	17060452.88	0.0088	0.0077 *

# 43RD MILLENNIUM CE

This is a list of transits visible from Neptune in the 43rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	42022-08-15 22:19	G	17069507.37	17069507.43	17069507.52	0.0088	0.0082	
Venus	42023-03-29 11:02	G	17069732.84	17069732.96	17069733.11	0.0088	0.0069	
Venus	42023-11-10 00:00	G	17069958.34	17069958.50	17069958.68	0.0088	0.0056	
Venus	42024-06-22 12:43	G	17070183.84	17070184.03	17070184.23	0.0088	0.0043	
Venus	42025-02-03 01:26	G	17070409.36	17070409.56	17070409.77	0.0088	0.0030	
Venus	42025-09-16 14:24	G	17070634.88	17070635.10	17070635.32	0.0088	0.0017	
Venus	42026-04-30 03:07	G	17070860.41	17070860.63	17070860.85	0.0088	0.0004	
Venus	42026-12-11 15:50	G	17071085.94	17071086.16	17071086.38	0.0088	0.0009	
Venus	42027-07-25 04:34	G	17071311.48	17071311.69	17071311.90	0.0088	0.0022	
Venus	42028-03-06 17:17	G	17071537.02	17071537.22	17071537.42	0.0088	0.0035	
Venus	42028-10-18 06:00	G	17071762.58	17071762.75	17071762.94	0.0088	0.0048	
Venus	42029-05-31 18:58	G	17071988.14	17071988.29	17071988.45	0.0088	0.0061	
Venus	42030-01-12 07:41	G	17072213.71	17072213.82	17072213.94	0.0088	0.0074	
Venus	42030-08-25 20:24	G	17072439.34	17072439.35	17072439.38	0.0088	0.0087	
Mars	42047-08-24 05:02	G	17078646.38	17078646.71	17078647.07	0.0088	0.0008	
Mars	42049-07-20 18:00	G	17079343.19	17079343.25	17079343.36	0.0088	0.0086	
Mercury	42053-03-15 10:05	G	17080676.89	17080676.92	17080677.01	0.0089	0.0085	
Mercury	42053-06-11 14:24	G	17080764.99	17080765.10	17080765.21	0.0089	0.0073	
Mercury	42053-09-07 18:00	G	17080853.12	17080853.25	17080853.40	0.0089	0.0062	
Mercury	42053-12-04 21:36	G	17080941.25	17080941.40	17080941.58	0.0089	0.0051	
Mercury	42054-03-03 01:12	G	17081029.39	17081029.55	17081029.75	0.0089	0.0040	
Mercury	42054-05-30 05:17	G	17081117.54	17081117.72	17081117.91	0.0089	0.0028	
Mercury	42054-08-26 09:07	G	17081205.69	17081205.88	17081206.07	0.0089	0.0017	
Mercury	42054-11-22 12:43	G	17081293.84	17081294.03	17081294.23	0.0089	0.0006	
Mercury	42055-02-18 16:34	G	17081381.99	17081382.19	17081382.39	0.0089	0.0006	
Mercury	42055-05-17 20:10	G	17081470.15	17081470.34	17081470.54	0.0089	0.0017	
Mercury	42055-08-13 23:46	G	17081558.31	17081558.49	17081558.68	0.0089	0.0029	



Mercury	42055-11-10 03:22 G	17081646.48	17081646.64	17081646.83	0.0089	0.0040
Mercury	42056-02-06 07:12 G	17081734.65	17081734.80	17081734.97	0.0089	0.0051
Mercury	42056-05-04 10:48 G	17081822.82	17081822.95	17081823.10	0.0089	0.0062
Mercury	42056-07-31 14:38 G	17081911.01	17081911.11	17081911.22	0.0089	0.0073
Mercury	42056-10-27 18:14 G	17081999.21	17081999.26	17081999.33	0.0089	0.0084
Moon	42074-04-16 21:50 G	17088379.30	17088379.41	17088379.54	0.0089	0.0080
Earth	42074-04-17 00:00 G	17088379.41	17088379.50	17088379.64	0.0089	0.0080 *
Earth	42075-04-19 11:46 G	17088746.80	17088746.99	17088747.20	0.0089	0.0056
Moon	42075-04-19 14:24 G	17088746.92	17088747.10	17088747.31	0.0089	0.0057 *
Moon	42076-04-20 19:55 G	17089114.10	17089114.33	17089114.58	0.0089	0.0032
Earth	42076-04-20 23:17 G	17089114.25	17089114.47	17089114.73	0.0089	0.0033 *
Earth	42077-04-23 11:17 G	17089481.72	17089481.97	17089482.23	0.0089	0.0008
Moon	42077-04-23 14:53 G	17089481.86	17089482.12	17089482.38	0.0089	0.0008 *
Moon	42078-04-25 19:55 G	17089849.09	17089849.33	17089849.58	0.0089	0.0017
Earth	42078-04-25 23:02 G	17089849.21	17089849.46	17089849.72	0.0089	0.0016 *
Earth	42079-04-28 10:34 G	17090216.72	17090216.94	17090217.18	0.0089	0.0040
Moon	42079-04-28 12:58 G	17090216.82	17090217.04	17090217.30	0.0089	0.0039 *
Moon	42080-04-29 21:07 G	17090584.23	17090584.38	17090584.58	0.0089	0.0065
Earth	42080-04-29 22:05 G	17090584.27	17090584.42	17090584.63	0.0089	0.0064 *
Earth	42081-05-02 09:50 G	17090951.89	17090951.91	17090952.00	0.0089	0.0088
Moon	42081-05-02 10:34 G	17090951.89	17090951.94	17090952.04	0.0089	0.0086 *
Venus	42104-10-02 18:29 G	17099505.18	17099505.27	17099505.40	0.0090	0.0077
Venus	42105-05-16 08:10 G	17099730.69	17099730.84	17099731.00	0.0090	0.0063
Venus	42105-12-27 21:07 G	17099956.21	17099956.38	17099956.58	0.0090	0.0050
Venus	42106-08-10 10:34 G	17100181.75	17100181.94	17100182.15	0.0090	0.0036
Venus	42107-03-24 00:00 G	17100407.29	17100407.50	17100407.72	0.0090	0.0022
Venus	42107-11-04 13:12 G	17100632.84	17100633.05	17100633.28	0.0090	0.0009
Venus	42108-06-17 02:38 G	17100858.39	17100858.61	17100858.83	0.0089	0.0006
Venus	42109-01-28 15:36 G	17101083.95	17101084.15	17101084.38	0.0089	0.0020
Venus	42109-09-11 05:02 G	17101309.51	17101309.71	17101309.92	0.0089	0.0033

Venus	42110-04-24 18:14 G	17101535.08	17101535.26	17101535.46	0.0089	0.0047
Venus	42110-12-06 07:12 G	17101760.66	17101760.80	17101760.98	0.0089	0.0061
Venus	42111-07-19 20:38 G	17101986.25	17101986.36	17101986.49	0.0089	0.0074
Venus	42112-03-01 09:22 G	17102211.87	17102211.89	17102211.96	0.0089	0.0088
Mars	42127-08-05 04:19 G	17107846.45	17107846.68	17107846.93	0.0089	0.0050
Mars	42129-06-28 17:17 G	17108539.95	17108540.22	17108540.50	0.0089	0.0026
Mercury	42133-07-09 14:38 G	17110012.07	17110012.11	17110012.16	0.0089	0.0083
Mercury	42133-10-05 15:50 G	17110100.10	17110100.16	17110100.24	0.0089	0.0076
Mercury	42134-01-01 17:17 G	17110188.14	17110188.22	17110188.30	0.0089	0.0068
Mercury	42134-03-30 18:29 G	17110276.18	17110276.27	17110276.37	0.0089	0.0061
Mercury	42134-06-26 19:55 G	17110364.22	17110364.33	17110364.43	0.0089	0.0053
Mercury	42134-09-22 20:53 G	17110452.27	17110452.37	17110452.49	0.0089	0.0046
Mercury	42134-12-19 22:19 G	17110540.32	17110540.43	17110540.55	0.0089	0.0038
Mercury	42135-03-17 23:31 G	17110628.36	17110628.48	17110628.61	0.0089	0.0031
Mercury	42135-06-14 00:58 G	17110716.41	17110716.54	17110716.67	0.0089	0.0023
Mercury	42135-09-10 02:10 G	17110804.46	17110804.59	17110804.72	0.0089	0.0016
Mercury	42135-12-07 03:22 G	17110892.51	17110892.64	17110892.78	0.0089	0.0009
Mercury	42136-03-04 04:48 G	17110980.57	17110980.70	17110980.83	0.0089	0.0001
Mercury	42136-05-31 06:00 G	17111068.62	17111068.75	17111068.88	0.0089	0.0007
Mercury	42136-08-27 07:12 G	17111156.68	17111156.80	17111156.94	0.0089	0.0015
Mercury	42136-11-23 08:38 G	17111244.73	17111244.86	17111244.99	0.0089	0.0022
Mercury	42137-02-19 09:50 G	17111332.79	17111332.91	17111333.04	0.0089	0.0029
Mercury	42137-05-18 11:02 G	17111420.84	17111420.96	17111421.08	0.0089	0.0037
Mercury	42137-08-14 12:14 G	17111508.90	17111509.01	17111509.13	0.0089	0.0045
Mercury	42137-11-10 13:41 G	17111596.97	17111597.07	17111597.18	0.0089	0.0052
Mercury	42138-02-06 14:53 G	17111685.03	17111685.12	17111685.22	0.0089	0.0059
Mercury	42138-05-05 16:19 G	17111773.09	17111773.18	17111773.26	0.0089	0.0067
Mercury	42138-08-01 17:17 G	17111861.16	17111861.22	17111861.30	0.0089	0.0075
Mercury	42138-10-28 18:43 G	17111949.24	17111949.28	17111949.33	0.0089	0.0082
Moon	42155-10-18 10:19 G	17118147.81	17118147.93	17118148.08	0.0088	0.0076

Earth	42155-10-18 11:02 G	17118147.87	17118147.96	17118148.10	0.0088	0.0078	*
Earth	42156-10-19 22:34 G	17118515.26	17118515.44	17118515.67	0.0088	0.0055	
Moon	42156-10-20 00:43 G	17118515.37	17118515.53	17118515.75	0.0088	0.0057	*
Moon	42157-10-22 07:12 G	17118882.57	17118882.80	17118883.06	0.0088	0.0030	
Earth	42157-10-22 10:34 G	17118882.71	17118882.94	17118883.19	0.0088	0.0032	*
Earth	42158-10-24 22:19 G	17119250.18	17119250.43	17119250.70	0.0088	0.0009	
Moon	42158-10-25 01:41 G	17119250.32	17119250.57	17119250.83	0.0088	0.0010	*
Moon	42159-10-27 06:14 G	17119617.52	17119617.76	17119618.02	0.0088	0.0016	
Earth	42159-10-27 10:05 G	17119617.67	17119617.92	17119618.18	0.0088	0.0014	*
Earth	42160-10-28 21:36 G	17119985.17	17119985.40	17119985.64	0.0088	0.0037	
Moon	42160-10-29 00:29 G	17119985.29	17119985.52	17119985.77	0.0088	0.0036	*
Moon	42161-10-31 06:14 G	17120352.60	17120352.76	17120352.96	0.0088	0.0061	
Earth	42161-10-31 09:07 G	17120352.70	17120352.88	17120353.07	0.0088	0.0060	*
Earth	42162-11-02 20:24 G	17120720.28	17120720.35	17120720.44	0.0088	0.0083	
Moon	42162-11-02 21:36 G	17120720.32	17120720.40	17120720.51	0.0088	0.0082	*
Venus	42186-11-18 07:55 G	17129501.81	17129501.83	17129501.89	0.0088	0.0086	
Venus	42187-07-01 20:53 G	17129727.26	17129727.37	17129727.50	0.0088	0.0073	
Venus	42188-02-12 09:07 G	17129952.75	17129952.88	17129953.07	0.0088	0.0061	
Venus	42188-09-24 22:05 G	17130178.26	17130178.42	17130178.63	0.0088	0.0048	
Venus	42189-05-08 11:02 G	17130403.77	17130403.96	17130404.18	0.0088	0.0035	
Venus	42189-12-19 23:46 G	17130629.29	17130629.49	17130629.72	0.0088	0.0022	
Venus	42190-08-02 12:43 G	17130854.81	17130855.03	17130855.25	0.0088	0.0009	
Venus	42191-03-16 01:26 G	17131080.34	17131080.56	17131080.78	0.0088	0.0004	
Venus	42191-10-27 14:24 G	17131305.88	17131306.10	17131306.31	0.0088	0.0017	
Venus	42192-06-09 02:53 G	17131531.42	17131531.62	17131531.84	0.0088	0.0030	
Venus	42193-01-20 15:36 G	17131756.97	17131757.15	17131757.35	0.0088	0.0043	
Venus	42193-09-03 04:19 G	17131982.52	17131982.68	17131982.86	0.0088	0.0056	
Venus	42194-04-16 17:02 G	17132208.09	17132208.21	17132208.36	0.0088	0.0069	
Venus	42194-11-28 05:46 G	17132433.68	17132433.74	17132433.84	0.0088	0.0082	
Mars	42211-04-08 08:38 G	17138407.56	17138407.86	17138408.18	0.0088	0.0040	

Mars	42213-03-04 20:24 G	17139104.11	17139104.35	17139104.66	0.0088	0.0054
Mercury	42217-12-12 07:55 G	17140847.78	17140847.83	17140847.94	0.0089	0.0082
Mercury	42218-03-10 12:14 G	17140935.89	17140936.01	17140936.13	0.0089	0.0070
Mercury	42218-06-06 15:50 G	17141024.02	17141024.16	17141024.32	0.0089	0.0059
Mercury	42218-09-02 19:26 G	17141112.16	17141112.31	17141112.49	0.0089	0.0048
Mercury	42218-11-29 23:02 G	17141200.30	17141200.46	17141200.66	0.0089	0.0037
Mercury	42219-02-26 03:07 G	17141288.44	17141288.63	17141288.82	0.0089	0.0025
Mercury	42219-05-25 06:58 G	17141376.59	17141376.79	17141376.98	0.0089	0.0014
Mercury	42219-08-21 10:34 G	17141464.75	17141464.94	17141465.14	0.0089	0.0003
Mercury	42219-11-17 14:24 G	17141552.90	17141553.10	17141553.29	0.0089	0.0009
Mercury	42220-02-13 18:00 G	17141641.06	17141641.25	17141641.44	0.0089	0.0020
Mercury	42220-05-11 21:22 G	17141729.22	17141729.39	17141729.59	0.0089	0.0032
Mercury	42220-08-08 01:12 G	17141817.39	17141817.55	17141817.73	0.0089	0.0043
Mercury	42220-11-04 04:48 G	17141905.56	17141905.70	17141905.87	0.0089	0.0054
Mercury	42221-01-31 08:38 G	17141993.74	17141993.86	17141994.00	0.0089	0.0065
Mercury	42221-04-29 12:14 G	17142081.92	17142082.01	17142082.12	0.0089	0.0076
Mercury	42221-07-26 16:05 G	17142170.14	17142170.17	17142170.21	0.0089	0.0087
Jupiter	42236-01-03 22:34 G	17147443.92	17147444.44	17147445.00	0.0089	0.0007
Moon	42238-04-18 10:48 G	17148279.94	17148279.95	17148280.02	0.0089	0.0089
Moon	42239-04-20 15:50 G	17148647.04	17148647.16	17148647.33	0.0089	0.0074
Earth	42239-04-20 19:12 G	17148647.16	17148647.30	17148647.49	0.0089	0.0069 *
Earth	42240-04-22 06:58 G	17149014.59	17149014.79	17149015.03	0.0089	0.0046
Moon	42240-04-22 10:34 G	17149014.73	17149014.94	17149015.19	0.0089	0.0041 *
Moon	42241-04-24 16:19 G	17149381.96	17149382.18	17149382.43	0.0089	0.0026
Earth	42241-04-24 18:58 G	17149382.05	17149382.29	17149382.55	0.0089	0.0021 *
Earth	42242-04-27 06:43 G	17149749.53	17149749.78	17149750.04	0.0089	0.0003
Moon	42242-04-27 08:38 G	17149749.59	17149749.86	17149750.12	0.0089	0.0007 *
Moon	42243-04-29 17:31 G	17150117.00	17150117.23	17150117.48	0.0089	0.0022
Earth	42243-04-29 18:14 G	17150117.03	17150117.26	17150117.52	0.0089	0.0027 *
Moon	42244-05-01 05:02 G	17150484.51	17150484.71	17150484.93	0.0089	0.0055

Earth	42244-05-01 06:00 G	17150484.55	17150484.75	17150484.98	0.0089	0.0051	*
Earth	42245-05-03 17:31 G	17150852.12	17150852.23	17150852.40	0.0089	0.0075	
Moon	42245-05-03 19:26 G	17150852.18	17150852.31	17150852.48	0.0089	0.0071	*
Venus	42269-01-05 03:36 G	17159499.58	17159499.65	17159499.75	0.0090	0.0082	
Venus	42269-08-18 17:02 G	17159725.07	17159725.21	17159725.36	0.0090	0.0068	
Venus	42270-04-01 06:14 G	17159950.60	17159950.76	17159950.95	0.0090	0.0055	
Venus	42270-11-12 19:41 G	17160176.13	17160176.32	17160176.52	0.0090	0.0041	
Venus	42271-06-26 08:38 G	17160401.67	17160401.86	17160402.08	0.0090	0.0028	
Venus	42272-02-06 22:05 G	17160627.21	17160627.42	17160627.64	0.0090	0.0014	
Venus	42272-09-19 11:31 G	17160852.76	17160852.98	17160853.20	0.0089	0.0000	
Venus	42273-05-03 00:58 G	17161078.32	17161078.54	17161078.76	0.0089	0.0014	
Venus	42273-12-14 13:55 G	17161303.88	17161304.08	17161304.30	0.0089	0.0028	
Venus	42274-07-28 03:22 G	17161529.45	17161529.64	17161529.84	0.0089	0.0041	
Venus	42275-03-10 16:19 G	17161755.02	17161755.18	17161755.37	0.0089	0.0055	
Venus	42275-10-22 06:00 G	17161980.61	17161980.75	17161980.89	0.0089	0.0068	
Venus	42276-06-03 18:58 G	17162206.22	17162206.29	17162206.39	0.0089	0.0082	
Mars	42291-03-21 15:50 G	17167610.04	17167610.16	17167610.31	0.0089	0.0078	
Mars	42293-02-12 04:19 G	17168303.40	17168303.68	17168303.97	0.0089	0.0002	
Mars	42295-01-06 16:19 G	17168997.06	17168997.18	17168997.36	0.0089	0.0075	
Mercury	42298-04-06 13:55 G	17170183.04	17170183.08	17170183.14	0.0089	0.0082	
Mercury	42298-07-03 15:22 G	17170271.07	17170271.14	17170271.21	0.0089	0.0074	
Mercury	42298-09-29 16:34 G	17170359.11	17170359.19	17170359.28	0.0089	0.0067	
Mercury	42298-12-26 18:00 G	17170447.15	17170447.25	17170447.34	0.0089	0.0059	
Mercury	42299-03-24 18:58 G	17170535.19	17170535.29	17170535.41	0.0089	0.0052	
Mercury	42299-06-20 20:10 G	17170623.24	17170623.34	17170623.47	0.0089	0.0045	
Mercury	42299-09-16 21:36 G	17170711.29	17170711.40	17170711.53	0.0089	0.0037	
Mercury	42299-12-13 22:48 G	17170799.34	17170799.45	17170799.58	0.0089	0.0030	
Mercury	42300-03-12 00:14 G	17170887.39	17170887.51	17170887.64	0.0089	0.0022	
Mercury	42300-06-08 01:26 G	17170975.44	17170975.56	17170975.69	0.0089	0.0015	
Mercury	42300-09-04 02:53 G	17171063.49	17171063.62	17171063.75	0.0089	0.0007	

Mercury	42300-12-01 04:05 G	17171151.54	17171151.67	17171151.80	0.0089	0.0002
Mercury	42301-02-27 05:17 G	17171239.59	17171239.72	17171239.86	0.0089	0.0009
Mercury	42301-05-26 06:43 G	17171327.65	17171327.78	17171327.91	0.0089	0.0016
Mercury	42301-08-22 07:55 G	17171415.70	17171415.83	17171415.96	0.0089	0.0023
Mercury	42301-11-18 09:07 G	17171503.76	17171503.88	17171504.01	0.0089	0.0031
Mercury	42302-02-14 10:19 G	17171591.82	17171591.93	17171592.06	0.0089	0.0039
Mercury	42302-05-13 11:46 G	17171679.88	17171679.99	17171680.10	0.0089	0.0046
Mercury	42302-08-09 12:58 G	17171767.94	17171768.04	17171768.15	0.0089	0.0054
Mercury	42302-11-05 14:24 G	17171856.00	17171856.10	17171856.19	0.0089	0.0061
Mercury	42303-02-01 15:22 G	17171944.07	17171944.14	17171944.23	0.0089	0.0069
Mercury	42303-04-30 16:34 G	17172032.14	17172032.19	17172032.27	0.0089	0.0077
Mercury	42303-07-27 18:00 G	17172120.22	17172120.25	17172120.30	0.0089	0.0084
Moon	42320-10-21 02:24 G	17178415.45	17178415.60	17178415.81	0.0088	0.0064
Earth	42320-10-21 06:00 G	17178415.61	17178415.75	17178415.94	0.0088	0.0068 *
Earth	42321-10-23 17:31 G	17178783.03	17178783.23	17178783.48	0.0088	0.0045
Moon	42321-10-23 21:36 G	17178783.19	17178783.40	17178783.62	0.0088	0.0048 *
Moon	42322-10-26 02:10 G	17179150.36	17179150.59	17179150.86	0.0088	0.0018
Earth	42322-10-26 05:31 G	17179150.49	17179150.73	17179150.99	0.0088	0.0022 *
Earth	42323-10-28 17:17 G	17179517.96	17179518.22	17179518.48	0.0088	0.0002
Moon	42323-10-28 20:10 G	17179518.08	17179518.34	17179518.61	0.0088	0.0003 *
Moon	42324-10-30 03:07 G	17179885.41	17179885.63	17179885.88	0.0088	0.0029
Earth	42324-10-30 04:34 G	17179885.45	17179885.69	17179885.95	0.0088	0.0025 *
Earth	42325-11-01 16:19 G	17180252.97	17180253.18	17180253.40	0.0088	0.0048
Moon	42325-11-01 16:48 G	17180252.98	17180253.20	17180253.45	0.0088	0.0044 *
Earth	42326-11-04 03:36 G	17180620.52	17180620.65	17180620.82	0.0088	0.0071
Moon	42326-11-04 04:05 G	17180620.57	17180620.67	17180620.82	0.0088	0.0076 *
Venus	42351-10-05 06:58 G	17189721.70	17189721.79	17189721.91	0.0088	0.0077
Venus	42352-05-17 19:26 G	17189947.19	17189947.31	17189947.48	0.0088	0.0065
Venus	42352-12-29 08:24 G	17190172.69	17190172.85	17190173.04	0.0088	0.0052
Venus	42353-08-11 21:07 G	17190398.20	17190398.38	17190398.59	0.0088	0.0039

Venus	42354-03-25 10:05 G	17190623.72	17190623.92	17190624.14	0.0088	0.0026
Venus	42354-11-05 23:02 G	17190849.25	17190849.46	17190849.68	0.0088	0.0013
Venus	42355-06-19 11:46 G	17191074.77	17191074.99	17191075.22	0.0088	0.0002
Venus	42356-01-31 00:29 G	17191300.31	17191300.52	17191300.74	0.0088	0.0013
Venus	42356-09-12 13:12 G	17191525.85	17191526.05	17191526.27	0.0088	0.0026
Venus	42357-04-26 01:41 G	17191751.39	17191751.57	17191751.79	0.0088	0.0039
Venus	42357-12-07 14:24 G	17191976.94	17191977.10	17191977.30	0.0088	0.0052
Venus	42358-07-21 03:36 G	17192202.50	17192202.65	17192202.80	0.0088	0.0064
Venus	42359-03-03 16:05 G	17192428.08	17192428.17	17192428.29	0.0088	0.0077
Mars	42374-11-20 12:43 G	17198168.87	17198169.03	17198169.26	0.0088	0.0073
Mars	42376-10-17 01:12 G	17198865.22	17198865.55	17198865.89	0.0088	0.0021
Mercury	42382-06-13 03:07 G	17200930.63	17200930.63	17200930.63	0.0089	0.0089
Mercury	42382-09-09 06:14 G	17201018.69	17201018.76	17201018.88	0.0089	0.0078
Mercury	42382-12-06 10:34 G	17201106.81	17201106.94	17201107.07	0.0089	0.0066
Mercury	42383-03-04 13:55 G	17201194.94	17201195.08	17201195.25	0.0089	0.0055
Mercury	42383-05-31 17:46 G	17201283.08	17201283.24	17201283.42	0.0089	0.0044
Mercury	42383-08-27 21:22 G	17201371.22	17201371.39	17201371.59	0.0089	0.0033
Mercury	42383-11-24 01:26 G	17201459.37	17201459.56	17201459.75	0.0089	0.0021
Mercury	42384-02-20 05:02 G	17201547.52	17201547.71	17201547.91	0.0089	0.0010
Mercury	42384-05-18 08:53 G	17201635.67	17201635.87	17201636.06	0.0089	0.0002
Mercury	42384-08-14 12:29 G	17201723.83	17201724.02	17201724.22	0.0089	0.0013
Mercury	42384-11-10 16:05 G	17201811.99	17201812.17	17201812.37	0.0089	0.0024
Mercury	42385-02-06 19:55 G	17201900.15	17201900.33	17201900.51	0.0089	0.0035
Mercury	42385-05-05 23:17 G	17201988.32	17201988.47	17201988.65	0.0089	0.0047
Mercury	42385-08-02 02:53 G	17202076.49	17202076.62	17202076.79	0.0089	0.0058
Mercury	42385-10-29 06:43 G	17202164.67	17202164.78	17202164.92	0.0089	0.0069
Mercury	42386-01-25 10:19 G	17202252.86	17202252.93	17202253.03	0.0089	0.0080
Earth	42403-04-21 03:22 G	17208547.57	17208547.64	17208547.76	0.0089	0.0083
Moon	42403-04-21 06:14 G	17208547.70	17208547.76	17208547.88	0.0089	0.0084 *
Moon	42404-04-22 13:12 G	17208914.87	17208915.05	17208915.25	0.0089	0.0058

Earth	42404-04-22 15:22 G	17208914.96	17208915.14	17208915.35	0.0089	0.0059	*
Earth	42405-04-25 03:07 G	17209282.41	17209282.63	17209282.88	0.0089	0.0035	
Moon	42405-04-25 04:05 G	17209282.44	17209282.67	17209282.92	0.0089	0.0036	*
Earth	42406-04-27 14:53 G	17209649.87	17209650.12	17209650.38	0.0089	0.0011	
Moon	42406-04-27 15:07 G	17209649.89	17209650.13	17209650.39	0.0089	0.0010	*
Moon	42407-04-30 01:26 G	17210017.31	17210017.56	17210017.83	0.0089	0.0013	
Earth	42407-04-30 02:38 G	17210017.36	17210017.61	17210017.87	0.0089	0.0014	*
Earth	42408-05-01 14:24 G	17210384.87	17210385.10	17210385.34	0.0089	0.0038	
Moon	42408-05-01 16:34 G	17210384.99	17210385.19	17210385.44	0.0089	0.0040	*
Moon	42409-05-03 22:34 G	17210752.27	17210752.44	17210752.65	0.0089	0.0061	
Earth	42409-05-04 01:55 G	17210752.41	17210752.58	17210752.78	0.0089	0.0062	*
Earth	42410-05-06 13:41 G	17211120.01	17211120.07	17211120.15	0.0089	0.0086	
Moon	42410-05-06 17:02 G	17211120.16	17211120.21	17211120.30	0.0089	0.0086	
Venus	42433-04-09 13:26 G	17219494.02	17219494.06	17219494.14	0.0090	0.0086	
Venus	42433-11-21 02:38 G	17219719.50	17219719.61	17219719.75	0.0090	0.0073	
Venus	42434-07-04 16:05 G	17219945.01	17219945.17	17219945.34	0.0090	0.0059	
Venus	42435-02-15 05:02 G	17220170.54	17220170.71	17220170.91	0.0090	0.0046	
Venus	42435-09-28 18:43 G	17220396.07	17220396.28	17220396.48	0.0090	0.0032	
Venus	42436-05-11 07:55 G	17220621.62	17220621.83	17220622.05	0.0090	0.0018	
Venus	42436-12-22 21:07 G	17220847.16	17220847.38	17220847.60	0.0090	0.0005	
Venus	42437-08-05 10:19 G	17221072.71	17221072.93	17221073.15	0.0090	0.0009	
Venus	42438-03-18 23:17 G	17221298.27	17221298.47	17221298.70	0.0089	0.0023	
Venus	42438-10-30 12:43 G	17221523.84	17221524.03	17221524.24	0.0089	0.0036	
Venus	42439-06-13 01:41 G	17221749.41	17221749.57	17221749.77	0.0089	0.0050	
Venus	42440-01-24 15:07 G	17221974.99	17221975.13	17221975.30	0.0089	0.0063	
Venus	42440-09-06 04:05 G	17222200.58	17222200.67	17222200.81	0.0089	0.0077	
Venus	42441-04-19 17:46 G	17222426.24	17222426.24	17222426.26	0.0089	0.0089	
Mars	42456-09-28 17:31 G	17228066.98	17228067.23	17228067.52	0.0089	0.0029	
Mars	42458-08-23 05:31 G	17228760.51	17228760.73	17228760.99	0.0089	0.0049	
Mercury	42462-10-06 12:14 G	17230266.00	17230266.01	17230266.04	0.0089	0.0087	



Mercury	42463-01-02 13:26 G	17230354.02	17230354.06	17230354.13	0.0089	0.0080
Mercury	42463-03-31 14:53 G	17230442.05	17230442.12	17230442.20	0.0089	0.0072
Mercury	42463-06-27 16:05 G	17230530.09	17230530.17	17230530.26	0.0089	0.0065
Mercury	42463-09-23 17:31 G	17230618.13	17230618.23	17230618.33	0.0089	0.0057
Mercury	42463-12-20 18:29 G	17230706.17	17230706.27	17230706.39	0.0089	0.0050
Mercury	42464-03-17 19:55 G	17230794.22	17230794.33	17230794.45	0.0089	0.0042
Mercury	42464-06-13 21:07 G	17230882.27	17230882.38	17230882.51	0.0089	0.0035
Mercury	42464-09-09 22:34 G	17230970.32	17230970.44	17230970.57	0.0089	0.0027
Mercury	42464-12-06 23:46 G	17231058.37	17231058.49	17231058.62	0.0089	0.0020
Mercury	42465-03-05 01:12 G	17231146.42	17231146.55	17231146.68	0.0089	0.0012
Mercury	42465-06-01 02:24 G	17231234.47	17231234.60	17231234.73	0.0089	0.0004
Mercury	42465-08-28 03:36 G	17231322.52	17231322.65	17231322.78	0.0089	0.0004
Mercury	42465-11-24 05:02 G	17231410.58	17231410.71	17231410.84	0.0089	0.0011
Mercury	42466-02-20 06:14 G	17231498.63	17231498.76	17231498.89	0.0089	0.0018
Mercury	42466-05-19 07:26 G	17231586.69	17231586.81	17231586.94	0.0089	0.0026
Mercury	42466-08-15 08:38 G	17231674.74	17231674.86	17231674.99	0.0089	0.0033
Mercury	42466-11-11 09:50 G	17231762.80	17231762.91	17231763.04	0.0089	0.0041
Mercury	42467-02-07 11:02 G	17231850.86	17231850.96	17231851.08	0.0089	0.0049
Mercury	42467-05-06 12:29 G	17231938.92	17231939.02	17231939.13	0.0089	0.0056
Mercury	42467-08-02 13:41 G	17232026.99	17232027.07	17232027.17	0.0089	0.0064
Mercury	42467-10-29 15:07 G	17232115.05	17232115.13	17232115.21	0.0089	0.0071
Mercury	42468-01-25 16:05 G	17232203.13	17232203.17	17232203.24	0.0089	0.0079
Mercury	42468-04-22 17:31 G	17232291.21	17232291.23	17232291.27	0.0089	0.0086
Earth	42484-10-20 13:26 G	17238315.99	17238316.06	17238316.20	0.0088	0.0081
Moon	42484-10-20 17:17 G	17238316.13	17238316.22	17238316.36	0.0088	0.0078 *
Moon	42485-10-22 22:34 G	17238683.28	17238683.44	17238683.65	0.0088	0.0061
Earth	42485-10-23 01:41 G	17238683.39	17238683.57	17238683.78	0.0088	0.0057 *
Saturn	42486-05-18 05:17 G	17238890.19	17238890.72	17238891.37	0.0088	0.0050
Earth	42486-10-25 13:26 G	17239050.83	17239051.06	17239051.31	0.0088	0.0034
Moon	42486-10-25 15:36 G	17239050.90	17239051.15	17239051.40	0.0088	0.0031 *

Moon	42487-10-27 23:46 G	17239418.25	17239418.49	17239418.75	0.0088	0.0013
Earth	42487-10-28 00:58 G	17239418.29	17239418.54	17239418.81	0.0088	0.0011 *
Moon	42488-10-29 12:00 G	17239785.75	17239786.00	17239786.28	0.0088	0.0016
Earth	42488-10-29 12:29 G	17239785.78	17239786.02	17239786.29	0.0088	0.0013 *
Earth	42489-11-01 00:14 G	17240153.28	17240153.51	17240153.76	0.0088	0.0036
Moon	42489-11-01 01:26 G	17240153.35	17240153.56	17240153.82	0.0088	0.0034 *
Moon	42490-11-03 09:36 G	17240520.71	17240520.90	17240521.09	0.0088	0.0061
Earth	42490-11-03 11:46 G	17240520.81	17240520.99	17240521.19	0.0088	0.0059 *
Earth	42491-11-05 23:17 G	17240888.39	17240888.47	17240888.57	0.0088	0.0082
Moon	42491-11-06 02:24 G	17240888.52	17240888.60	17240888.73	0.0088	0.0080 *
Venus	42516-01-07 17:02 G	17249716.14	17249716.21	17249716.31	0.0088	0.0081
Venus	42516-08-20 06:00 G	17249941.62	17249941.75	17249941.90	0.0088	0.0068
Venus	42517-04-02 18:29 G	17250167.12	17250167.27	17250167.46	0.0088	0.0056
Venus	42517-11-14 07:26 G	17250392.64	17250392.81	17250393.02	0.0088	0.0043
Venus	42518-06-27 20:24 G	17250618.15	17250618.35	17250618.57	0.0088	0.0030
Venus	42519-02-08 09:22 G	17250843.68	17250843.89	17250844.11	0.0088	0.0017
Venus	42519-09-21 22:19 G	17251069.21	17251069.43	17251069.65	0.0088	0.0004
Venus	42520-05-04 11:02 G	17251294.74	17251294.96	17251295.18	0.0088	0.0009
Venus	42520-12-15 23:46 G	17251520.28	17251520.49	17251520.71	0.0088	0.0022
Venus	42521-07-29 12:14 G	17251745.82	17251746.01	17251746.23	0.0088	0.0035
Venus	42522-03-12 01:12 G	17251971.37	17251971.55	17251971.74	0.0088	0.0047
Venus	42522-10-23 13:55 G	17252196.93	17252197.08	17252197.26	0.0088	0.0060
Venus	42523-06-06 02:38 G	17252422.51	17252422.61	17252422.75	0.0088	0.0073
Venus	42524-01-17 15:36 G	17252648.11	17252648.15	17252648.21	0.0088	0.0085
Mars	42540-05-31 07:55 G	17258626.49	17258626.83	17258627.18	0.0088	0.0011
Mars	42542-04-27 19:26 G	17259323.22	17259323.31	17259323.46	0.0088	0.0083
Mercury	42547-03-11 00:58 G	17261101.50	17261101.54	17261101.61	0.0089	0.0085
Mercury	42547-06-07 04:34 G	17261189.60	17261189.69	17261189.82	0.0089	0.0074
Mercury	42547-09-03 08:38 G	17261277.73	17261277.86	17261278.01	0.0089	0.0062
Mercury	42547-11-30 12:14 G	17261365.86	17261366.01	17261366.18	0.0089	0.0051

Mercury	42548-02-26 16:05 G	17261454.00	17261454.17	17261454.36	0.0089	0.0040
Mercury	42548-05-24 19:55 G	17261542.15	17261542.33	17261542.52	0.0089	0.0028
Mercury	42548-08-20 23:46 G	17261630.29	17261630.49	17261630.68	0.0089	0.0017
Mercury	42548-11-17 03:22 G	17261718.45	17261718.64	17261718.84	0.0089	0.0006
Mercury	42549-02-13 07:12 G	17261806.60	17261806.80	17261807.00	0.0089	0.0006
Mercury	42549-05-12 10:48 G	17261894.76	17261894.95	17261895.15	0.0089	0.0017
Mercury	42549-08-08 14:38 G	17261982.92	17261983.11	17261983.29	0.0089	0.0028
Mercury	42549-11-04 18:00 G	17262071.09	17262071.25	17262071.44	0.0089	0.0040
Mercury	42550-01-31 21:36 G	17262159.25	17262159.40	17262159.58	0.0089	0.0051
Mercury	42550-04-30 01:26 G	17262247.43	17262247.56	17262247.71	0.0089	0.0062
Mercury	42550-07-27 05:02 G	17262335.61	17262335.71	17262335.83	0.0089	0.0073
Mercury	42550-10-23 08:53 G	17262423.82	17262423.87	17262423.94	0.0089	0.0084
Earth	42568-04-23 00:29 G	17268815.39	17268815.52	17268815.70	0.0089	0.0071
Moon	42568-04-23 01:26 G	17268815.43	17268815.56	17268815.72	0.0089	0.0075 *
Earth	42569-04-25 12:14 G	17269182.81	17269183.01	17269183.25	0.0089	0.0048
Moon	42569-04-25 13:12 G	17269182.85	17269183.05	17269183.29	0.0089	0.0043 *
Moon	42570-04-27 22:05 G	17269550.18	17269550.42	17269550.68	0.0089	0.0027
Earth	42570-04-28 00:14 G	17269550.28	17269550.51	17269550.77	0.0089	0.0023 *
Earth	42571-04-30 12:14 G	17269917.76	17269918.01	17269918.27	0.0089	0.0001
Moon	42571-04-30 14:53 G	17269917.87	17269918.12	17269918.37	0.0089	0.0006 *
Moon	42572-05-01 19:55 G	17270285.10	17270285.33	17270285.60	0.0089	0.0022
Earth	42572-05-01 23:46 G	17270285.26	17270285.49	17270285.75	0.0089	0.0026 *
Earth	42573-05-04 11:17 G	17270652.77	17270652.97	17270653.20	0.0089	0.0050
Moon	42573-05-04 15:07 G	17270652.93	17270653.13	17270653.33	0.0089	0.0054 *
Moon	42574-05-06 19:41 G	17271020.18	17271020.32	17271020.50	0.0089	0.0070
Earth	42574-05-06 23:17 G	17271020.33	17271020.47	17271020.62	0.0089	0.0074 *
Venus	42597-07-13 00:00 G	17279488.50	17279488.50	17279488.50	0.0090	0.0090
Venus	42598-02-23 12:43 G	17279713.94	17279714.03	17279714.17	0.0090	0.0077
Venus	42598-10-07 02:24 G	17279939.45	17279939.60	17279939.76	0.0090	0.0063
Venus	42599-05-20 15:36 G	17280164.98	17280165.15	17280165.35	0.0090	0.0050

Venus	42600-01-01 04:48 G	17280390.51	17280390.70	17280390.91	0.0090	0.0036
Venus	42600-08-14 18:14 G	17280616.05	17280616.26	17280616.48	0.0090	0.0023
Venus	42601-03-28 07:26 G	17280841.60	17280841.81	17280842.03	0.0090	0.0010
Venus	42601-11-08 20:38 G	17281067.15	17281067.36	17281067.59	0.0090	0.0005
Venus	42602-06-22 09:50 G	17281292.70	17281292.91	17281293.13	0.0089	0.0018
Venus	42603-02-02 22:48 G	17281518.26	17281518.45	17281518.67	0.0089	0.0032
Venus	42603-09-16 12:00 G	17281743.83	17281744.00	17281744.21	0.0089	0.0045
Venus	42604-04-29 01:41 G	17281969.41	17281969.57	17281969.74	0.0089	0.0058
Venus	42604-12-10 14:24 G	17282194.99	17282195.10	17282195.26	0.0089	0.0072
Venus	42605-07-24 03:50 G	17282420.61	17282420.66	17282420.74	0.0089	0.0085
Mars	42620-05-16 08:10 G	17287830.64	17287830.84	17287831.08	0.0089	0.0056
Mars	42622-04-09 21:07 G	17288524.11	17288524.38	17288524.67	0.0089	0.0022
Mercury	42627-07-05 11:46 G	17290436.97	17290436.99	17290437.04	0.0089	0.0085
Mercury	42627-10-01 13:12 G	17290524.99	17290525.05	17290525.12	0.0089	0.0077
Mercury	42627-12-28 14:24 G	17290613.03	17290613.10	17290613.19	0.0089	0.0070
Mercury	42628-03-25 15:50 G	17290701.07	17290701.16	17290701.26	0.0089	0.0062
Mercury	42628-06-21 17:02 G	17290789.11	17290789.21	17290789.32	0.0089	0.0055
Mercury	42628-09-17 18:29 G	17290877.16	17290877.27	17290877.38	0.0089	0.0047
Mercury	42628-12-14 19:26 G	17290965.20	17290965.31	17290965.44	0.0089	0.0040
Mercury	42629-03-12 20:53 G	17291053.25	17291053.37	17291053.50	0.0089	0.0032
Mercury	42629-06-08 22:05 G	17291141.30	17291141.42	17291141.55	0.0089	0.0025
Mercury	42629-09-04 23:31 G	17291229.35	17291229.48	17291229.61	0.0089	0.0017
Mercury	42629-12-02 00:43 G	17291317.40	17291317.53	17291317.66	0.0089	0.0010
Mercury	42630-02-28 01:55 G	17291405.45	17291405.58	17291405.72	0.0089	0.0004
Mercury	42630-05-27 03:22 G	17291493.51	17291493.64	17291493.77	0.0089	0.0006
Mercury	42630-08-23 04:34 G	17291581.56	17291581.69	17291581.82	0.0089	0.0013
Mercury	42630-11-19 05:46 G	17291669.62	17291669.74	17291669.87	0.0089	0.0021
Mercury	42631-02-15 06:58 G	17291757.67	17291757.79	17291757.92	0.0089	0.0029
Mercury	42631-05-14 08:24 G	17291845.73	17291845.85	17291845.97	0.0089	0.0036
Mercury	42631-08-10 09:36 G	17291933.79	17291933.90	17291934.02	0.0089	0.0043

Mercury	42631-11-06 10:48 G	17292021.85	17292021.95	17292022.06	0.0089	0.0051
Mercury	42632-02-02 12:00 G	17292109.91	17292110.00	17292110.11	0.0089	0.0059
Mercury	42632-04-30 13:26 G	17292197.98	17292198.06	17292198.15	0.0089	0.0066
Mercury	42632-07-27 14:38 G	17292286.05	17292286.11	17292286.19	0.0089	0.0074
Mercury	42632-10-23 16:05 G	17292374.12	17292374.17	17292374.22	0.0089	0.0081
Mercury	42633-01-19 17:17 G	17292462.22	17292462.22	17292462.22	0.0089	0.0089
Earth	42649-10-24 10:05 G	17298583.79	17298583.92	17298584.10	0.0088	0.0070
Moon	42649-10-24 11:31 G	17298583.84	17298583.98	17298584.19	0.0088	0.0067 *
Earth	42650-10-26 22:05 G	17298951.20	17298951.42	17298951.65	0.0088	0.0046
Moon	42650-10-26 21:50 G	17298951.22	17298951.41	17298951.64	0.0088	0.0049 *
Moon	42651-10-29 08:53 G	17299318.61	17299318.87	17299319.14	0.0088	0.0020
Earth	42651-10-29 09:36 G	17299318.66	17299318.90	17299319.16	0.0088	0.0023 *
Earth	42652-10-30 21:22 G	17299686.13	17299686.39	17299686.65	0.0088	0.0001
Moon	42652-10-30 23:31 G	17299686.23	17299686.48	17299686.74	0.0088	0.0003 *
Moon	42653-11-02 05:46 G	17300053.49	17300053.74	17300053.99	0.0088	0.0026
Earth	42653-11-02 08:38 G	17300053.62	17300053.86	17300054.12	0.0088	0.0024 *
Earth	42654-11-04 20:10 G	17300421.13	17300421.34	17300421.57	0.0088	0.0047
Moon	42654-11-04 23:17 G	17300421.27	17300421.47	17300421.71	0.0088	0.0044 *
Moon	42655-11-07 03:50 G	17300788.54	17300788.66	17300788.82	0.0088	0.0074
Earth	42655-11-07 07:26 G	17300788.68	17300788.81	17300788.99	0.0088	0.0071 *
Venus	42680-04-11 04:05 G	17309710.62	17309710.67	17309710.74	0.0088	0.0084
Venus	42680-11-22 16:34 G	17309936.09	17309936.19	17309936.34	0.0088	0.0072
Venus	42681-07-06 05:31 G	17310161.58	17310161.73	17310161.91	0.0088	0.0059
Venus	42682-02-16 18:29 G	17310387.09	17310387.27	17310387.46	0.0088	0.0046
Venus	42682-09-30 07:12 G	17310612.61	17310612.80	17310613.02	0.0088	0.0034
Venus	42683-05-13 20:10 G	17310838.13	17310838.34	17310838.56	0.0088	0.0021
Venus	42683-12-25 09:07 G	17311063.66	17311063.88	17311064.10	0.0088	0.0008
Venus	42684-08-06 21:50 G	17311289.19	17311289.41	17311289.63	0.0088	0.0005
Venus	42685-03-20 10:34 G	17311514.73	17311514.94	17311515.16	0.0088	0.0018
Venus	42685-10-31 23:17 G	17311740.28	17311740.47	17311740.69	0.0088	0.0031

Venus	42686-06-14 12:14 G	17311965.82	17311966.01	17311966.21	0.0088	0.0043
Venus	42687-01-26 00:43 G	17312191.38	17312191.53	17312191.72	0.0088	0.0056
Venus	42687-09-08 13:12 G	17312416.94	17312417.05	17312417.22	0.0088	0.0069
Venus	42688-04-21 02:24 G	17312642.53	17312642.60	17312642.69	0.0088	0.0081
Mars	42704-01-14 16:48 G	17318387.90	17318388.20	17318388.51	0.0088	0.0043
Mars	42705-12-11 03:07 G	17319084.38	17319084.63	17319084.94	0.0088	0.0052
Mercury	42711-12-07 23:31 G	17321272.41	17321272.48	17321272.59	0.0089	0.0080
Mercury	42712-03-05 03:50 G	17321360.53	17321360.66	17321360.78	0.0089	0.0068
Mercury	42712-06-01 07:12 G	17321448.66	17321448.80	17321448.96	0.0089	0.0057
Mercury	42712-08-28 11:02 G	17321536.80	17321536.96	17321537.14	0.0089	0.0046
Mercury	42712-11-24 14:38 G	17321624.94	17321625.11	17321625.31	0.0089	0.0035
Mercury	42713-02-20 18:43 G	17321713.09	17321713.28	17321713.47	0.0089	0.0023
Mercury	42713-05-19 22:19 G	17321801.24	17321801.43	17321801.63	0.0089	0.0012
Mercury	42713-08-16 02:10 G	17321889.39	17321889.59	17321889.79	0.0089	0.0000
Mercury	42713-11-12 05:46 G	17321977.55	17321977.74	17321977.94	0.0089	0.0011
Mercury	42714-02-08 09:36 G	17322065.71	17322065.90	17322066.09	0.0089	0.0022
Mercury	42714-05-07 12:58 G	17322153.87	17322154.04	17322154.24	0.0089	0.0034
Mercury	42714-08-03 16:48 G	17322242.04	17322242.20	17322242.38	0.0089	0.0045
Mercury	42714-10-30 20:24 G	17322330.21	17322330.35	17322330.51	0.0089	0.0056
Mercury	42715-01-27 00:14 G	17322418.39	17322418.51	17322418.64	0.0089	0.0067
Mercury	42715-04-25 03:50 G	17322506.58	17322506.66	17322506.76	0.0089	0.0078
Earth	42732-04-24 10:19 G	17328715.86	17328715.93	17328716.03	0.0089	0.0084
Moon	42732-04-24 11:31 G	17328715.95	17328715.98	17328716.06	0.0089	0.0087 *
Moon	42733-04-26 19:12 G	17329083.13	17329083.30	17329083.53	0.0089	0.0058
Earth	42733-04-26 22:19 G	17329083.25	17329083.43	17329083.62	0.0089	0.0060 *
Earth	42734-04-29 09:50 G	17329450.69	17329450.91	17329451.16	0.0089	0.0036
Moon	42734-04-29 13:12 G	17329450.84	17329451.05	17329451.29	0.0089	0.0039 *
Moon	42735-05-01 18:29 G	17329818.02	17329818.27	17329818.53	0.0089	0.0009
Earth	42735-05-01 21:50 G	17329818.16	17329818.41	17329818.67	0.0089	0.0011 *
Earth	42736-05-03 09:36 G	17330185.65	17330185.90	17330186.16	0.0089	0.0013

Moon	42736-05-03 13:12 G	17330185.80	17330186.05	17330186.31	0.0089	0.0012 *
Moon	42737-05-05 18:29 G	17330553.06	17330553.27	17330553.51	0.0089	0.0041
Earth	42737-05-05 21:22 G	17330553.17	17330553.39	17330553.63	0.0089	0.0038 *
Earth	42738-05-08 09:07 G	17330920.70	17330920.88	17330921.07	0.0089	0.0062
Moon	42738-05-08 10:48 G	17330920.78	17330920.95	17330921.17	0.0089	0.0061 *
Moon	42739-05-10 20:10 G	17331288.30	17331288.34	17331288.38	0.0089	0.0088
Earth	42739-05-10 20:24 G	17331288.31	17331288.35	17331288.45	0.0089	0.0087 *
Venus	42762-05-29 23:46 G	17339708.40	17339708.49	17339708.60	0.0090	0.0080
Venus	42763-01-10 12:43 G	17339933.91	17339934.03	17339934.20	0.0090	0.0067
Venus	42763-08-24 01:55 G	17340159.43	17340159.58	17340159.78	0.0090	0.0054
Venus	42764-04-05 15:36 G	17340384.96	17340385.15	17340385.35	0.0090	0.0040
Venus	42764-11-17 04:48 G	17340610.50	17340610.70	17340610.92	0.0090	0.0027
Venus	42765-06-30 18:00 G	17340836.04	17340836.25	17340836.47	0.0090	0.0014
Venus	42766-02-11 07:26 G	17341061.59	17341061.81	17341062.03	0.0090	0.0002
Venus	42766-09-24 20:24 G	17341287.14	17341287.35	17341287.57	0.0090	0.0014
Venus	42767-05-08 09:50 G	17341512.70	17341512.91	17341513.12	0.0089	0.0027
Venus	42767-12-19 23:02 G	17341738.27	17341738.46	17341738.66	0.0089	0.0040
Venus	42768-08-01 11:46 G	17341963.84	17341963.99	17341964.19	0.0089	0.0054
Venus	42769-03-15 01:12 G	17342189.42	17342189.55	17342189.71	0.0089	0.0067
Venus	42769-10-26 14:24 G	17342415.01	17342415.10	17342415.21	0.0089	0.0080
Mars	42783-12-31 22:19 G	17347594.35	17347594.43	17347594.55	0.0089	0.0083
Mars	42785-11-24 12:43 G	17348287.75	17348288.03	17348288.32	0.0089	0.0005
Mars	42787-10-19 01:12 G	17348981.42	17348981.55	17348981.73	0.0089	0.0074
Mercury	42792-01-04 10:34 G	17350519.94	17350519.94	17350519.95	0.0089	0.0089
Mercury	42792-04-01 12:00 G	17350607.95	17350608.00	17350608.05	0.0089	0.0081
Mercury	42792-06-28 12:58 G	17350695.98	17350696.04	17350696.12	0.0089	0.0074
Mercury	42792-09-24 14:10 G	17350784.02	17350784.09	17350784.19	0.0089	0.0067
Mercury	42792-12-21 15:36 G	17350872.06	17350872.15	17350872.25	0.0089	0.0059
Mercury	42793-03-19 16:48 G	17350960.10	17350960.20	17350960.31	0.0089	0.0052
Mercury	42793-06-15 18:14 G	17351048.15	17351048.26	17351048.37	0.0089	0.0044

Mercury	42793-09-11 19:26 G	17351136.19	17351136.31	17351136.43	0.0089	0.0036
Mercury	42793-12-08 20:38 G	17351224.24	17351224.36	17351224.49	0.0089	0.0029
Mercury	42794-03-06 21:50 G	17351312.29	17351312.41	17351312.55	0.0089	0.0022
Mercury	42794-06-02 23:17 G	17351400.34	17351400.47	17351400.60	0.0089	0.0014
Mercury	42794-08-30 00:29 G	17351488.39	17351488.52	17351488.65	0.0089	0.0007
Mercury	42794-11-26 01:55 G	17351576.45	17351576.58	17351576.71	0.0089	0.0002
Mercury	42795-02-22 03:07 G	17351664.50	17351664.63	17351664.76	0.0089	0.0009
Mercury	42795-05-21 04:19 G	17351752.55	17351752.68	17351752.81	0.0089	0.0016
Mercury	42795-08-17 05:31 G	17351840.61	17351840.73	17351840.86	0.0089	0.0024
Mercury	42795-11-13 06:43 G	17351928.66	17351928.78	17351928.91	0.0089	0.0032
Mercury	42796-02-09 08:10 G	17352016.72	17352016.84	17352016.96	0.0089	0.0039
Mercury	42796-05-07 09:07 G	17352104.78	17352104.88	17352105.00	0.0089	0.0047
Mercury	42796-08-03 10:34 G	17352192.84	17352192.94	17352193.05	0.0089	0.0054
Mercury	42796-10-30 11:46 G	17352280.91	17352280.99	17352281.09	0.0089	0.0062
Mercury	42797-01-26 13:12 G	17352368.97	17352369.05	17352369.13	0.0089	0.0069
Mercury	42797-04-24 14:24 G	17352457.04	17352457.10	17352457.17	0.0089	0.0077
Mercury	42797-07-21 15:50 G	17352545.12	17352545.16	17352545.20	0.0089	0.0084
Saturn	42809-03-28 14:10 G	17356812.46	17356813.09	17356813.80	0.0088	0.0026
Jupiter	42811-02-01 13:41 G	17357487.53	17357488.07	17357488.62	0.0088	0.0011
Moon	42813-10-24 20:10 G	17358484.23	17358484.34	17358484.46	0.0088	0.0078
Earth	42813-10-24 19:26 G	17358484.24	17358484.31	17358484.42	0.0088	0.0082 *
Moon	42814-10-27 05:02 G	17358851.55	17358851.71	17358851.92	0.0088	0.0063
Earth	42814-10-27 07:41 G	17358851.63	17358851.82	17358852.02	0.0088	0.0059 *
Earth	42815-10-29 19:12 G	17359219.07	17359219.30	17359219.55	0.0088	0.0035
Moon	42815-10-29 21:50 G	17359219.18	17359219.41	17359219.65	0.0088	0.0031 *
Moon	42816-10-31 03:36 G	17359586.39	17359586.65	17359586.91	0.0088	0.0015
Earth	42816-10-31 07:12 G	17359586.54	17359586.80	17359587.05	0.0088	0.0011 *
Earth	42817-11-02 18:29 G	17359954.02	17359954.27	17359954.53	0.0088	0.0012
Moon	42817-11-02 22:19 G	17359954.17	17359954.43	17359954.68	0.0088	0.0016 *
Moon	42818-11-05 02:38 G	17360321.38	17360321.61	17360321.86	0.0088	0.0032



Earth	42818-11-05 05:46 G	17360321.52	17360321.74	17360321.99	0.0088	0.0036 *
Earth	42819-11-07 17:17 G	17360689.05	17360689.22	17360689.43	0.0088	0.0059
Moon	42819-11-07 20:10 G	17360689.18	17360689.34	17360689.55	0.0088	0.0063 *
Moon	42820-11-09 03:22 G	17361056.55	17361056.64	17361056.76	0.0088	0.0079
Earth	42820-11-09 04:34 G	17361056.63	17361056.69	17361056.81	0.0088	0.0083 *
Venus	42844-07-14 15:22 G	17369705.12	17369705.14	17369705.16	0.0088	0.0087
Venus	42845-02-25 03:36 G	17369930.56	17369930.65	17369930.79	0.0088	0.0075
Venus	42845-10-08 16:48 G	17370156.05	17370156.20	17370156.36	0.0088	0.0062
Venus	42846-05-22 05:17 G	17370381.56	17370381.72	17370381.92	0.0088	0.0050
Venus	42847-01-02 18:14 G	17370607.07	17370607.26	17370607.47	0.0088	0.0037
Venus	42847-08-16 07:12 G	17370832.59	17370832.80	17370833.02	0.0088	0.0024
Venus	42848-03-28 19:55 G	17371058.12	17371058.33	17371058.56	0.0088	0.0012
Venus	42848-11-09 09:07 G	17371283.65	17371283.88	17371284.10	0.0088	0.0002
Venus	42849-06-22 21:50 G	17371509.19	17371509.41	17371509.63	0.0088	0.0014
Venus	42850-02-03 10:19 G	17371734.73	17371734.93	17371735.15	0.0088	0.0027
Venus	42850-09-16 23:31 G	17371960.28	17371960.48	17371960.68	0.0088	0.0039
Venus	42851-04-30 12:00 G	17372185.84	17372186.00	17372186.19	0.0088	0.0052
Venus	42851-12-12 00:43 G	17372411.40	17372411.53	17372411.70	0.0088	0.0065
Venus	42852-07-24 13:55 G	17372636.98	17372637.08	17372637.19	0.0088	0.0077
Mars	42867-08-28 03:36 G	17378149.48	17378149.65	17378149.86	0.0088	0.0074
Mars	42869-07-24 13:26 G	17378845.72	17378846.06	17378846.39	0.0088	0.0020
Mercury	42876-06-06 18:29 G	17381355.24	17381355.27	17381355.33	0.0089	0.0086
Mercury	42876-09-02 22:05 G	17381443.34	17381443.42	17381443.55	0.0089	0.0075
Mercury	42876-11-30 02:24 G	17381531.46	17381531.60	17381531.74	0.0089	0.0063
Mercury	42877-02-26 06:00 G	17381619.60	17381619.75	17381619.91	0.0089	0.0052
Mercury	42877-05-25 09:36 G	17381707.74	17381707.90	17381708.09	0.0089	0.0041
Mercury	42877-08-21 13:12 G	17381795.88	17381796.05	17381796.25	0.0089	0.0030
Mercury	42877-11-17 17:17 G	17381884.03	17381884.22	17381884.42	0.0089	0.0018
Mercury	42878-02-13 21:07 G	17381972.18	17381972.38	17381972.58	0.0089	0.0007
Mercury	42878-05-13 00:43 G	17382060.34	17382060.53	17382060.73	0.0089	0.0005

Mercury	42878-08-09 04:34 G	17382148.50	17382148.69	17382148.88	0.0089	0.0016
Mercury	42878-11-05 07:55 G	17382236.66	17382236.83	17382237.03	0.0089	0.0028
Mercury	42879-02-01 11:46 G	17382324.82	17382324.99	17382325.18	0.0089	0.0039
Mercury	42879-04-30 15:36 G	17382412.99	17382413.15	17382413.32	0.0089	0.0050
Mercury	42879-07-27 19:12 G	17382501.17	17382501.30	17382501.45	0.0089	0.0061
Mercury	42879-10-23 22:34 G	17382589.35	17382589.44	17382589.58	0.0089	0.0073
Mercury	42880-01-20 02:24 G	17382677.55	17382677.60	17382677.68	0.0089	0.0084
Earth	42897-04-26 08:10 G	17388983.72	17388983.84	17388984.02	0.0089	0.0073
Moon	42897-04-26 12:14 G	17388983.88	17388984.01	17388984.15	0.0089	0.0076 *
Moon	42898-04-28 16:48 G	17389350.99	17389351.20	17389351.43	0.0089	0.0045
Earth	42898-04-28 20:24 G	17389351.15	17389351.35	17389351.58	0.0089	0.0048 *
Earth	42899-05-01 07:55 G	17389718.60	17389718.83	17389719.09	0.0089	0.0024
Moon	42899-05-01 11:17 G	17389718.72	17389718.97	17389719.22	0.0089	0.0027 *
Moon	42900-05-03 17:17 G	17390085.97	17390086.22	17390086.47	0.0089	0.0005
Earth	42900-05-03 19:55 G	17390086.08	17390086.33	17390086.59	0.0089	0.0001 *
Earth	42901-05-06 07:41 G	17390453.58	17390453.82	17390454.07	0.0089	0.0026
Moon	42901-05-06 08:38 G	17390453.62	17390453.86	17390454.13	0.0089	0.0023 *
Earth	42902-05-08 19:41 G	17390821.11	17390821.32	17390821.53	0.0089	0.0050
Moon	42902-05-08 19:12 G	17390821.12	17390821.30	17390821.52	0.0089	0.0054 *
Moon	42903-05-11 06:00 G	17391188.61	17391188.75	17391188.94	0.0089	0.0071
Earth	42903-05-11 06:43 G	17391188.67	17391188.78	17391188.95	0.0089	0.0075 *
Venus	42926-09-01 11:02 G	17399702.88	17399702.96	17399703.04	0.0090	0.0083
Venus	42927-04-15 00:14 G	17399928.38	17399928.51	17399928.65	0.0090	0.0070
Venus	42927-11-26 13:26 G	17400153.90	17400154.06	17400154.24	0.0090	0.0057
Venus	42928-07-09 02:38 G	17400379.43	17400379.61	17400379.81	0.0090	0.0044
Venus	42929-02-19 15:50 G	17400604.97	17400605.16	17400605.38	0.0090	0.0031
Venus	42929-10-03 05:17 G	17400830.51	17400830.72	17400830.94	0.0090	0.0017
Venus	42930-05-16 18:43 G	17401056.06	17401056.28	17401056.50	0.0090	0.0004
Venus	42930-12-28 07:55 G	17401281.61	17401281.83	17401282.05	0.0090	0.0010
Venus	42931-08-10 21:07 G	17401507.17	17401507.38	17401507.59	0.0090	0.0023

Venus	42932-03-23 10:05 G	17401732.73	17401732.92	17401733.13	0.0090	0.0036
Venus	42932-11-03 23:02 G	17401958.30	17401958.46	17401958.66	0.0089	0.0050
Venus	42933-06-17 12:29 G	17402183.88	17402184.02	17402184.19	0.0089	0.0063
Venus	42934-01-29 01:26 G	17402409.46	17402409.56	17402409.69	0.0089	0.0076
Venus	42934-09-11 14:38 G	17402635.10	17402635.11	17402635.15	0.0089	0.0089
Mars	42949-07-11 04:19 G	17408051.43	17408051.68	17408051.97	0.0089	0.0032
Mars	42951-06-04 18:00 G	17408745.02	17408745.25	17408745.51	0.0089	0.0048
Mercury	42956-10-01 10:34 G	17410690.91	17410690.94	17410690.98	0.0089	0.0085
Mercury	42956-12-28 11:46 G	17410778.93	17410778.99	17410779.06	0.0089	0.0078
Mercury	42957-03-26 12:43 G	17410866.97	17410867.03	17410867.13	0.0089	0.0071
Mercury	42957-06-22 14:10 G	17410955.01	17410955.09	17410955.19	0.0089	0.0063
Mercury	42957-09-18 15:22 G	17411043.05	17411043.14	17411043.25	0.0089	0.0056
Mercury	42957-12-15 16:48 G	17411131.10	17411131.20	17411131.32	0.0089	0.0048
Mercury	42958-03-13 18:00 G	17411219.14	17411219.25	17411219.37	0.0089	0.0041
Mercury	42958-06-09 19:26 G	17411307.19	17411307.31	17411307.43	0.0089	0.0033
Mercury	42958-09-05 20:38 G	17411395.24	17411395.36	17411395.49	0.0089	0.0025
Mercury	42958-12-02 21:50 G	17411483.29	17411483.41	17411483.54	0.0089	0.0018
Mercury	42959-02-28 23:17 G	17411571.34	17411571.47	17411571.60	0.0089	0.0010
Mercury	42959-05-28 00:29 G	17411659.39	17411659.52	17411659.65	0.0089	0.0003
Mercury	42959-08-24 01:41 G	17411747.44	17411747.57	17411747.70	0.0089	0.0005
Mercury	42959-11-20 02:53 G	17411835.50	17411835.62	17411835.76	0.0089	0.0013
Mercury	42960-02-16 04:19 G	17411923.55	17411923.68	17411923.81	0.0089	0.0020
Mercury	42960-05-14 05:31 G	17412011.61	17412011.73	17412011.86	0.0089	0.0027
Mercury	42960-08-10 06:43 G	17412099.66	17412099.78	17412099.90	0.0089	0.0035
Mercury	42960-11-06 07:55 G	17412187.72	17412187.83	17412187.95	0.0089	0.0042
Mercury	42961-02-02 09:22 G	17412275.78	17412275.89	17412276.00	0.0089	0.0050
Mercury	42961-05-01 10:19 G	17412363.84	17412363.93	17412364.04	0.0089	0.0058
Mercury	42961-07-28 11:46 G	17412451.91	17412451.99	17412452.08	0.0089	0.0065
Mercury	42961-10-24 12:58 G	17412539.97	17412540.04	17412540.12	0.0089	0.0073
Mercury	42962-01-20 14:24 G	17412628.05	17412628.10	17412628.16	0.0089	0.0080

Mercury	42962-04-18 15:36 G	17412716.14	17412716.15	17412716.17	0.0089	0.0088
Earth	42978-10-27 16:34 G	17418752.07	17418752.19	17418752.37	0.0088	0.0071
Moon	42978-10-27 20:38 G	17418752.20	17418752.36	17418752.51	0.0088	0.0070 *
Moon	42979-10-30 01:26 G	17419119.35	17419119.56	17419119.79	0.0088	0.0048
Earth	42979-10-30 04:48 G	17419119.50	17419119.70	17419119.93	0.0088	0.0047 *
Earth	42980-10-31 16:34 G	17419486.95	17419487.19	17419487.45	0.0088	0.0024
Moon	42980-10-31 20:10 G	17419487.10	17419487.34	17419487.61	0.0088	0.0021 *
Moon	42981-11-03 01:12 G	17419854.30	17419854.55	17419854.81	0.0088	0.0002
Earth	42981-11-03 04:19 G	17419854.42	17419854.68	17419854.94	0.0088	0.0000 *
Earth	42982-11-05 15:36 G	17420221.91	17420222.15	17420222.41	0.0088	0.0024
Moon	42982-11-05 18:00 G	17420222.00	17420222.25	17420222.51	0.0088	0.0026 *
Moon	42983-11-08 02:10 G	17420589.37	17420589.59	17420589.80	0.0088	0.0045
Earth	42983-11-08 03:07 G	17420589.43	17420589.63	17420589.87	0.0088	0.0048 *
Moon	42984-11-09 14:10 G	17420956.96	17420957.09	17420957.26	0.0088	0.0073
Earth	42984-11-09 14:38 G	17420956.97	17420957.11	17420957.27	0.0088	0.0071 *

# 44TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 44th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	43009-05-31 15:07 G		17429925.05	17429925.13	17429925.26	0.0088	0.0078	
Venus	43010-01-12 04:05 G		17430150.54	17430150.67	17430150.83	0.0088	0.0065	
Venus	43010-08-25 16:34 G		17430376.04	17430376.19	17430376.39	0.0088	0.0053	

Venus	43011-04-08 05:46 G	17430601.55	17430601.74	17430601.94	0.0088	0.0040
Venus	43011-11-19 18:29 G	17430827.07	17430827.27	17430827.49	0.0088	0.0028
Venus	43012-07-02 07:26 G	17431052.59	17431052.81	17431053.03	0.0088	0.0015
Venus	43013-02-12 20:10 G	17431278.12	17431278.34	17431278.56	0.0088	0.0002
Venus	43013-09-26 08:53 G	17431503.66	17431503.87	17431504.10	0.0088	0.0011
Venus	43014-05-09 21:50 G	17431729.20	17431729.41	17431729.62	0.0088	0.0023
Venus	43014-12-21 10:19 G	17431954.74	17431954.93	17431955.15	0.0088	0.0036
Venus	43015-08-03 23:17 G	17432180.29	17432180.47	17432180.66	0.0088	0.0048
Venus	43016-03-16 12:00 G	17432405.85	17432406.00	17432406.17	0.0088	0.0061
Venus	43016-10-28 01:12 G	17432631.43	17432631.55	17432631.67	0.0088	0.0073
Venus	43017-06-10 13:41 G	17432857.05	17432857.07	17432857.13	0.0088	0.0086
Mars	43033-03-09 02:10 G	17438607.25	17438607.59	17438607.93	0.0088	0.0010
Mars	43035-02-03 11:02 G	17439303.90	17439303.96	17439304.11	0.0088	0.0085
Mercury	43041-03-05 17:02 G	17441526.16	17441526.21	17441526.32	0.0089	0.0081
Mercury	43041-06-01 21:22 G	17441614.27	17441614.39	17441614.52	0.0089	0.0069
Mercury	43041-08-29 00:58 G	17441702.40	17441702.54	17441702.70	0.0089	0.0058
Mercury	43041-11-25 04:34 G	17441790.54	17441790.69	17441790.88	0.0089	0.0047
Mercury	43042-02-21 08:38 G	17441878.68	17441878.86	17441879.04	0.0089	0.0035
Mercury	43042-05-20 12:14 G	17441966.83	17441967.01	17441967.21	0.0089	0.0024
Mercury	43042-08-16 16:05 G	17442054.98	17442055.17	17442055.37	0.0089	0.0012
Mercury	43042-11-12 19:55 G	17442143.13	17442143.33	17442143.53	0.0089	0.0001
Mercury	43043-02-08 23:31 G	17442231.29	17442231.48	17442231.68	0.0089	0.0011
Mercury	43043-05-08 03:22 G	17442319.45	17442319.64	17442319.83	0.0089	0.0022
Mercury	43043-08-04 07:12 G	17442407.62	17442407.80	17442407.98	0.0089	0.0033
Mercury	43043-10-31 10:34 G	17442495.78	17442495.94	17442496.12	0.0089	0.0045
Mercury	43044-01-27 14:10 G	17442583.96	17442584.09	17442584.26	0.0089	0.0056
Mercury	43044-04-24 18:00 G	17442672.14	17442672.25	17442672.39	0.0089	0.0067
Mercury	43044-07-21 21:50 G	17442760.33	17442760.41	17442760.51	0.0089	0.0078
Moon	43061-04-27 16:19 G	17448884.15	17448884.18	17448884.24	0.0089	0.0088
Earth	43061-04-27 19:26 G	17448884.25	17448884.31	17448884.42	0.0089	0.0085

Earth	43062-04-30 06:58 G	17449251.63	17449251.79	17449252.00	0.0089	0.0061
Moon	43062-04-30 10:05 G	17449251.74	17449251.92	17449252.14	0.0089	0.0056 *
Moon	43063-05-02 17:17 G	17449619.01	17449619.22	17449619.46	0.0089	0.0039
Earth	43063-05-02 18:58 G	17449619.06	17449619.29	17449619.53	0.0089	0.0035 *
Earth	43064-05-04 06:43 G	17449986.53	17449986.78	17449987.04	0.0089	0.0011
Moon	43064-05-04 07:41 G	17449986.56	17449986.82	17449987.09	0.0089	0.0008 *
Earth	43065-05-06 18:29 G	17450354.02	17450354.27	17450354.53	0.0089	0.0014
Moon	43065-05-06 18:58 G	17450354.05	17450354.29	17450354.54	0.0089	0.0011 *
Moon	43066-05-09 04:05 G	17450721.45	17450721.67	17450721.92	0.0089	0.0042
Earth	43066-05-09 06:00 G	17450721.54	17450721.75	17450722.00	0.0089	0.0038 *
Earth	43067-05-11 18:00 G	17451089.08	17451089.25	17451089.44	0.0089	0.0063
Moon	43067-05-11 20:24 G	17451089.17	17451089.35	17451089.54	0.0089	0.0060 *
Earth	43068-05-13 05:31 G	17451456.70	17451456.73	17451456.81	0.0089	0.0088
Venus	43090-12-04 21:36 G	17459697.37	17459697.40	17459697.48	0.0090	0.0087
Venus	43091-07-18 10:48 G	17459922.85	17459922.95	17459923.10	0.0090	0.0074
Venus	43092-02-29 00:29 G	17460148.37	17460148.52	17460148.69	0.0090	0.0060
Venus	43092-10-11 13:55 G	17460373.90	17460374.08	17460374.27	0.0090	0.0047
Venus	43093-05-25 03:07 G	17460599.44	17460599.63	17460599.85	0.0090	0.0034
Venus	43094-01-05 16:34 G	17460824.98	17460825.19	17460825.41	0.0090	0.0020
Venus	43094-08-19 05:46 G	17461050.53	17461050.74	17461050.97	0.0090	0.0008
Venus	43095-04-01 19:12 G	17461276.08	17461276.30	17461276.52	0.0089	0.0006
Venus	43095-11-13 08:24 G	17461501.64	17461501.85	17461502.07	0.0089	0.0019
Venus	43096-06-25 21:36 G	17461727.20	17461727.40	17461727.61	0.0089	0.0033
Venus	43097-02-06 10:34 G	17461952.77	17461952.94	17461953.14	0.0089	0.0046
Venus	43097-09-19 23:46 G	17462178.34	17462178.49	17462178.67	0.0089	0.0059
Venus	43098-05-03 13:12 G	17462403.93	17462404.05	17462404.19	0.0089	0.0072
Venus	43098-12-15 02:24 G	17462629.54	17462629.60	17462629.68	0.0089	0.0085
Mars	43113-02-25 21:07 G	17467815.19	17467815.38	17467815.62	0.0089	0.0058
Mars	43115-01-20 11:17 G	17468508.70	17468508.97	17468509.26	0.0089	0.0022
Mercury	43121-06-30 10:19 G	17470861.89	17470861.93	17470861.99	0.0089	0.0082

Mercury	43121-09-26 11:46 G	17470949.92	17470949.99	17470950.06	0.0089	0.0074
Mercury	43121-12-23 12:58 G	17471037.96	17471038.04	17471038.13	0.0089	0.0067
Mercury	43122-03-21 14:24 G	17471126.00	17471126.10	17471126.19	0.0089	0.0059
Mercury	43122-06-17 15:22 G	17471214.05	17471214.14	17471214.26	0.0089	0.0052
Mercury	43122-09-13 16:48 G	17471302.09	17471302.20	17471302.32	0.0089	0.0044
Mercury	43122-12-10 18:00 G	17471390.14	17471390.25	17471390.37	0.0089	0.0037
Mercury	43123-03-08 19:26 G	17471478.18	17471478.31	17471478.43	0.0089	0.0029
Mercury	43123-06-04 20:38 G	17471566.23	17471566.36	17471566.49	0.0089	0.0022
Mercury	43123-08-31 21:50 G	17471654.28	17471654.41	17471654.54	0.0089	0.0014
Mercury	43123-11-27 23:02 G	17471742.33	17471742.46	17471742.60	0.0089	0.0007
Mercury	43124-02-24 00:29 G	17471830.39	17471830.52	17471830.65	0.0089	0.0002
Mercury	43124-05-22 01:41 G	17471918.44	17471918.57	17471918.70	0.0089	0.0008
Mercury	43124-08-18 02:53 G	17472006.49	17472006.62	17472006.75	0.0089	0.0016
Mercury	43124-11-14 04:05 G	17472094.55	17472094.67	17472094.80	0.0089	0.0024
Mercury	43125-02-10 05:31 G	17472182.60	17472182.73	17472182.85	0.0089	0.0031
Mercury	43125-05-09 06:29 G	17472270.66	17472270.77	17472270.90	0.0089	0.0039
Mercury	43125-08-05 07:55 G	17472358.72	17472358.83	17472358.95	0.0089	0.0046
Mercury	43125-11-01 09:07 G	17472446.78	17472446.88	17472446.99	0.0089	0.0054
Mercury	43126-01-28 10:34 G	17472534.84	17472534.94	17472535.03	0.0089	0.0061
Mercury	43126-04-26 11:31 G	17472622.91	17472622.98	17472623.07	0.0089	0.0069
Mercury	43126-07-23 12:43 G	17472710.98	17472711.03	17472711.11	0.0089	0.0077
Mercury	43126-10-19 14:10 G	17472799.06	17472799.09	17472799.14	0.0089	0.0084
Saturn	43132-04-09 18:43 G	17474797.68	17474798.28	17474798.97	0.0088	0.0028
Moon	43142-10-28 23:02 G	17478652.37	17478652.46	17478652.61	0.0088	0.0078
Earth	43142-10-29 02:38 G	17478652.56	17478652.61	17478652.73	0.0088	0.0084 *
Earth	43143-10-31 14:53 G	17479019.95	17479020.12	17479020.33	0.0088	0.0059
Moon	43143-10-31 18:14 G	17479020.09	17479020.26	17479020.46	0.0088	0.0063 *
Moon	43144-11-02 00:00 G	17479387.27	17479387.50	17479387.75	0.0088	0.0031
Earth	43144-11-02 02:53 G	17479387.39	17479387.62	17479387.87	0.0088	0.0035 *
Earth	43145-11-04 14:38 G	17479754.86	17479755.11	17479755.38	0.0088	0.0011

Moon	43145-11-04 16:19 G	17479754.93	17479755.18	17479755.46	0.0088	0.0016 *
Moon	43146-11-07 02:10 G	17480122.35	17480122.59	17480122.84	0.0088	0.0017
Earth	43146-11-07 02:24 G	17480122.35	17480122.60	17480122.87	0.0088	0.0013 *
Moon	43147-11-09 13:41 G	17480489.82	17480490.07	17480490.32	0.0088	0.0032
Earth	43147-11-09 13:41 G	17480489.85	17480490.07	17480490.33	0.0088	0.0037 *
Earth	43148-11-11 01:12 G	17480857.38	17480857.55	17480857.76	0.0088	0.0060
Moon	43148-11-11 03:07 G	17480857.48	17480857.63	17480857.82	0.0088	0.0065 *
Moon	43149-11-13 09:50 G	17481224.81	17481224.91	17481225.03	0.0088	0.0079
Earth	43149-11-13 12:29 G	17481224.97	17481225.02	17481225.12	0.0088	0.0084 *
Venus	43173-09-03 03:07 G	17489919.56	17489919.63	17489919.73	0.0088	0.0080
Venus	43174-04-16 15:50 G	17490145.04	17490145.16	17490145.31	0.0088	0.0068
Venus	43174-11-28 04:48 G	17490370.54	17490370.70	17490370.88	0.0088	0.0055
Venus	43175-07-11 17:31 G	17490596.05	17490596.23	17490596.43	0.0088	0.0043
Venus	43176-02-22 06:00 G	17490821.56	17490821.75	17490821.98	0.0088	0.0031
Venus	43176-10-04 19:12 G	17491047.09	17491047.30	17491047.52	0.0088	0.0018
Venus	43177-05-18 07:55 G	17491272.61	17491272.83	17491273.06	0.0088	0.0006
Venus	43177-12-29 20:38 G	17491498.15	17491498.36	17491498.59	0.0088	0.0008
Venus	43178-08-12 09:22 G	17491723.68	17491723.89	17491724.11	0.0088	0.0020
Venus	43179-03-25 22:19 G	17491949.22	17491949.43	17491949.63	0.0088	0.0032
Venus	43179-11-06 10:48 G	17492174.78	17492174.95	17492175.16	0.0088	0.0045
Venus	43180-06-19 00:00 G	17492400.34	17492400.50	17492400.67	0.0088	0.0057
Venus	43181-01-30 12:29 G	17492625.90	17492626.02	17492626.17	0.0088	0.0070
Venus	43181-09-13 01:26 G	17492851.50	17492851.56	17492851.65	0.0088	0.0082
Mars	43196-10-21 13:55 G	17498368.80	17498369.08	17498369.41	0.0088	0.0043
Mars	43198-09-17 23:17 G	17499065.22	17499065.47	17499065.77	0.0088	0.0054
Mercury	43205-09-04 12:29 G	17501608.99	17501609.02	17501609.08	0.0089	0.0086
Mercury	43205-12-01 16:05 G	17501697.09	17501697.17	17501697.30	0.0089	0.0075
Mercury	43206-02-27 19:55 G	17501785.21	17501785.33	17501785.48	0.0089	0.0064
Mercury	43206-05-27 00:00 G	17501873.34	17501873.50	17501873.66	0.0089	0.0052
Mercury	43206-08-23 03:36 G	17501961.48	17501961.65	17501961.84	0.0089	0.0041



Mercury	43206-11-19 07:12 G	17502049.63	17502049.80	17502050.00	0.0089	0.0030
Mercury	43207-02-15 11:17 G	17502137.78	17502137.97	17502138.17	0.0089	0.0018
Mercury	43207-05-14 15:07 G	17502225.93	17502226.13	17502226.33	0.0089	0.0006
Mercury	43207-08-10 18:58 G	17502314.09	17502314.29	17502314.48	0.0089	0.0005
Mercury	43207-11-06 22:34 G	17502402.25	17502402.44	17502402.64	0.0089	0.0016
Mercury	43208-02-03 02:10 G	17502490.41	17502490.59	17502490.79	0.0089	0.0028
Mercury	43208-05-01 06:00 G	17502578.58	17502578.75	17502578.93	0.0089	0.0039
Mercury	43208-07-28 09:22 G	17502666.75	17502666.89	17502667.07	0.0089	0.0051
Mercury	43208-10-24 13:12 G	17502754.92	17502755.05	17502755.21	0.0089	0.0062
Mercury	43209-01-20 17:02 G	17502843.11	17502843.21	17502843.33	0.0089	0.0073
Mercury	43209-04-18 20:53 G	17502931.32	17502931.37	17502931.44	0.0089	0.0084
Moon	43226-04-30 17:02 G	17509152.09	17509152.21	17509152.36	0.0089	0.0075
Earth	43226-04-30 18:14 G	17509152.13	17509152.26	17509152.43	0.0089	0.0072 *
Moon	43227-05-03 06:00 G	17509519.53	17509519.75	17509519.98	0.0089	0.0046
Earth	43227-05-03 06:14 G	17509519.55	17509519.76	17509519.98	0.0089	0.0048 *
Earth	43228-05-04 17:31 G	17509887.00	17509887.23	17509887.49	0.0089	0.0024
Moon	43228-05-04 18:43 G	17509887.05	17509887.28	17509887.52	0.0089	0.0025 *
Moon	43229-05-07 03:07 G	17510254.37	17510254.63	17510254.90	0.0089	0.0004
Earth	43229-05-07 05:31 G	17510254.47	17510254.73	17510254.98	0.0089	0.0002 *
Earth	43230-05-09 16:48 G	17510621.97	17510622.20	17510622.46	0.0089	0.0026
Moon	43230-05-09 19:55 G	17510622.10	17510622.33	17510622.59	0.0089	0.0025 *
Moon	43231-05-12 00:58 G	17510989.35	17510989.54	17510989.77	0.0089	0.0054
Earth	43231-05-12 04:48 G	17510989.49	17510989.70	17510989.91	0.0089	0.0051 *
Earth	43232-05-13 16:05 G	17511357.06	17511357.17	17511357.33	0.0089	0.0076
Moon	43232-05-13 19:41 G	17511357.20	17511357.32	17511357.50	0.0089	0.0073 *
Venus	43255-03-09 09:36 G	17519691.88	17519691.90	17519691.92	0.0090	0.0089
Venus	43255-10-20 22:48 G	17519917.34	17519917.45	17519917.57	0.0090	0.0076
Venus	43256-06-02 12:00 G	17520142.85	17520143.00	17520143.16	0.0090	0.0063
Venus	43257-01-14 01:26 G	17520368.38	17520368.56	17520368.74	0.0090	0.0050
Venus	43257-08-27 14:38 G	17520593.92	17520594.11	17520594.31	0.0090	0.0037

Venus	43258-04-10 04:05 G	17520819.46	17520819.67	17520819.88	0.0090	0.0024
Venus	43258-11-21 17:17 G	17521045.01	17521045.22	17521045.44	0.0090	0.0011
Venus	43259-07-05 06:43 G	17521270.56	17521270.78	17521271.00	0.0090	0.0003
Venus	43260-02-15 19:55 G	17521496.11	17521496.33	17521496.54	0.0089	0.0016
Venus	43260-09-28 09:07 G	17521721.67	17521721.88	17521722.09	0.0089	0.0029
Venus	43261-05-11 22:34 G	17521947.25	17521947.44	17521947.63	0.0089	0.0042
Venus	43261-12-23 11:46 G	17522172.82	17522172.99	17522173.16	0.0089	0.0055
Venus	43262-08-06 00:43 G	17522398.40	17522398.53	17522398.68	0.0089	0.0068
Venus	43263-03-19 13:55 G	17522624.00	17522624.08	17522624.18	0.0089	0.0081
Mars	43276-10-11 12:29 G	17527578.94	17527579.02	17527579.12	0.0089	0.0084
Mars	43278-09-05 04:34 G	17528272.40	17528272.69	17528272.98	0.0089	0.0004
Mars	43280-07-29 19:12 G	17528966.15	17528966.30	17528966.45	0.0089	0.0075
Mercury	43285-12-29 09:22 G	17530944.86	17530944.89	17530944.92	0.0089	0.0085
Mercury	43286-03-27 10:19 G	17531032.88	17531032.93	17531033.00	0.0089	0.0078
Mercury	43286-06-23 12:00 G	17531120.92	17531121.00	17531121.07	0.0089	0.0070
Mercury	43286-09-19 12:58 G	17531208.96	17531209.04	17531209.14	0.0089	0.0063
Mercury	43286-12-16 14:24 G	17531297.00	17531297.10	17531297.20	0.0089	0.0055
Mercury	43287-03-14 15:36 G	17531385.04	17531385.15	17531385.26	0.0089	0.0048
Mercury	43287-06-10 16:48 G	17531473.09	17531473.20	17531473.32	0.0089	0.0040
Mercury	43287-09-06 18:00 G	17531561.14	17531561.25	17531561.38	0.0089	0.0033
Mercury	43287-12-03 19:26 G	17531649.18	17531649.31	17531649.44	0.0089	0.0025
Mercury	43288-02-29 20:38 G	17531737.23	17531737.36	17531737.49	0.0089	0.0018
Mercury	43288-05-27 21:50 G	17531825.28	17531825.41	17531825.54	0.0089	0.0010
Mercury	43288-08-23 23:17 G	17531913.34	17531913.47	17531913.60	0.0089	0.0003
Mercury	43288-11-20 00:29 G	17532001.39	17532001.52	17532001.65	0.0089	0.0005
Mercury	43289-02-16 01:41 G	17532089.44	17532089.57	17532089.70	0.0089	0.0013
Mercury	43289-05-15 02:53 G	17532177.50	17532177.62	17532177.75	0.0089	0.0020
Mercury	43289-08-11 04:05 G	17532265.55	17532265.67	17532265.80	0.0089	0.0028
Mercury	43289-11-07 05:31 G	17532353.61	17532353.73	17532353.85	0.0089	0.0035
Mercury	43290-02-03 06:43 G	17532441.67	17532441.78	17532441.90	0.0089	0.0043

Mercury	43290-05-02 07:41 G	17532529.73	17532529.82	17532529.94	0.0089	0.0051
Mercury	43290-07-29 09:07 G	17532617.79	17532617.88	17532617.99	0.0089	0.0058
Mercury	43290-10-25 10:19 G	17532705.85	17532705.93	17532706.03	0.0089	0.0066
Mercury	43291-01-21 11:46 G	17532793.92	17532793.99	17532794.07	0.0089	0.0073
Mercury	43291-04-19 12:43 G	17532881.99	17532882.03	17532882.10	0.0089	0.0081
Mercury	43291-07-16 14:10 G	17532970.09	17532970.09	17532970.12	0.0089	0.0088
Moon	43307-10-31 23:17 G	17538920.33	17538920.47	17538920.63	0.0088	0.0071
Earth	43307-11-01 00:43 G	17538920.41	17538920.53	17538920.71	0.0088	0.0071 *
Earth	43308-11-02 12:43 G	17539287.83	17539288.03	17539288.27	0.0088	0.0047
Moon	43308-11-02 14:10 G	17539287.88	17539288.09	17539288.33	0.0088	0.0048 *
Earth	43309-11-05 00:58 G	17539655.30	17539655.54	17539655.80	0.0088	0.0023
Moon	43309-11-05 01:12 G	17539655.30	17539655.55	17539655.79	0.0088	0.0022 *
Moon	43310-11-07 11:17 G	17540022.70	17540022.97	17540023.24	0.0088	0.0002
Earth	43310-11-07 12:58 G	17540022.78	17540023.04	17540023.30	0.0088	0.0001 *
Earth	43311-11-10 00:29 G	17540390.28	17540390.52	17540390.78	0.0088	0.0025
Moon	43311-11-10 02:38 G	17540390.38	17540390.61	17540390.86	0.0088	0.0026 *
Moon	43312-11-11 08:38 G	17540757.65	17540757.86	17540758.09	0.0088	0.0048
Earth	43312-11-11 12:00 G	17540757.80	17540758.00	17540758.23	0.0088	0.0049 *
Earth	43313-11-13 23:17 G	17541125.35	17541125.47	17541125.64	0.0088	0.0073
Moon	43313-11-14 03:07 G	17541125.50	17541125.63	17541125.79	0.0088	0.0073 *
Venus	43337-12-06 14:38 G	17549914.06	17549914.11	17549914.20	0.0088	0.0083
Venus	43338-07-20 03:50 G	17550139.53	17550139.66	17550139.79	0.0088	0.0070
Venus	43339-03-02 16:19 G	17550365.03	17550365.18	17550365.36	0.0088	0.0058
Venus	43339-10-14 05:02 G	17550590.54	17550590.71	17550590.92	0.0088	0.0046
Venus	43340-05-26 18:14 G	17550816.06	17550816.26	17550816.47	0.0088	0.0033
Venus	43341-01-07 06:43 G	17551041.58	17551041.78	17551042.01	0.0088	0.0021
Venus	43341-08-20 19:26 G	17551267.10	17551267.31	17551267.54	0.0088	0.0009
Venus	43342-04-03 08:24 G	17551492.63	17551492.85	17551493.07	0.0088	0.0004
Venus	43342-11-14 21:07 G	17551718.17	17551718.38	17551718.60	0.0088	0.0017
Venus	43343-06-28 09:50 G	17551943.71	17551943.91	17551944.13	0.0088	0.0029

Venus	43344-02-08 22:48 G	17552169.26	17552169.45	17552169.64	0.0088	0.0041
Venus	43344-09-21 11:17 G	17552394.81	17552394.97	17552395.16	0.0088	0.0054
Venus	43345-05-05 00:14 G	17552620.37	17552620.51	17552620.66	0.0088	0.0066
Venus	43345-12-16 12:43 G	17552845.96	17552846.03	17552846.15	0.0088	0.0079
Mars	43360-06-05 05:02 G	17558130.55	17558130.71	17558130.93	0.0088	0.0074
Mars	43362-05-02 13:41 G	17558826.74	17558827.07	17558827.41	0.0088	0.0022
Mercury	43370-06-02 11:02 G	17561779.91	17561779.96	17561780.07	0.0089	0.0081
Mercury	43370-08-29 15:07 G	17561868.02	17561868.13	17561868.27	0.0089	0.0069
Mercury	43370-11-25 18:58 G	17561956.15	17561956.29	17561956.45	0.0089	0.0058
Mercury	43371-02-21 23:02 G	17562044.29	17562044.46	17562044.63	0.0089	0.0046
Mercury	43371-05-21 02:38 G	17562132.43	17562132.61	17562132.80	0.0089	0.0035
Mercury	43371-08-17 06:14 G	17562220.58	17562220.76	17562220.96	0.0089	0.0024
Mercury	43371-11-13 10:19 G	17562308.73	17562308.93	17562309.12	0.0089	0.0012
Mercury	43372-02-09 13:55 G	17562396.89	17562397.08	17562397.28	0.0089	0.0002
Mercury	43372-05-07 17:46 G	17562485.04	17562485.24	17562485.44	0.0089	0.0011
Mercury	43372-08-03 21:22 G	17562573.20	17562573.39	17562573.59	0.0089	0.0022
Mercury	43372-10-31 00:58 G	17562661.37	17562661.54	17562661.73	0.0089	0.0034
Mercury	43373-01-27 04:48 G	17562749.54	17562749.70	17562749.88	0.0089	0.0045
Mercury	43373-04-25 08:38 G	17562837.71	17562837.86	17562838.02	0.0089	0.0056
Mercury	43373-07-22 12:00 G	17562925.89	17562926.00	17562926.15	0.0089	0.0068
Mercury	43373-10-18 15:36 G	17563014.08	17563014.15	17563014.26	0.0089	0.0079
Earth	43390-05-01 05:46 G	17569052.69	17569052.74	17569052.85	0.0089	0.0085
Moon	43390-05-01 05:17 G	17569052.71	17569052.72	17569052.80	0.0089	0.0089 *
Earth	43391-05-03 17:46 G	17569420.06	17569420.24	17569420.44	0.0089	0.0060
Moon	43391-05-03 19:26 G	17569420.13	17569420.31	17569420.52	0.0089	0.0056 *
Moon	43392-05-05 02:24 G	17569787.38	17569787.60	17569787.85	0.0089	0.0039
Earth	43392-05-05 05:31 G	17569787.50	17569787.73	17569787.97	0.0089	0.0035 *
Earth	43393-05-07 16:48 G	17570154.96	17570155.20	17570155.46	0.0089	0.0011
Moon	43393-05-07 20:10 G	17570155.09	17570155.34	17570155.60	0.0089	0.0006 *
Moon	43394-05-10 00:43 G	17570522.29	17570522.53	17570522.79	0.0089	0.0010

Earth	43394-05-10 04:34 G	17570522.44	17570522.69	17570522.95	0.0089	0.0015	*
Earth	43395-05-12 15:50 G	17570889.95	17570890.16	17570890.41	0.0089	0.0040	
Moon	43395-05-12 18:58 G	17570890.09	17570890.29	17570890.54	0.0089	0.0044	*
Moon	43396-05-14 00:29 G	17571257.36	17571257.52	17571257.73	0.0089	0.0061	
Earth	43396-05-14 03:22 G	17571257.49	17571257.64	17571257.85	0.0089	0.0065	*
Earth	43397-05-16 15:07 G	17571625.12	17571625.13	17571625.18	0.0089	0.0089	
Venus	43420-01-24 10:19 G	17579911.83	17579911.93	17579912.04	0.0090	0.0079	
Venus	43420-09-05 23:31 G	17580137.34	17580137.48	17580137.63	0.0090	0.0066	
Venus	43421-04-19 12:58 G	17580362.87	17580363.04	17580363.22	0.0090	0.0053	
Venus	43421-12-01 02:10 G	17580588.40	17580588.59	17580588.79	0.0090	0.0040	
Venus	43422-07-14 15:36 G	17580813.94	17580814.15	17580814.36	0.0090	0.0027	
Venus	43423-02-25 04:48 G	17581039.48	17581039.70	17581039.92	0.0090	0.0014	
Venus	43423-10-08 18:00 G	17581265.04	17581265.25	17581265.47	0.0089	0.0002	
Venus	43424-05-21 07:26 G	17581490.60	17581490.81	17581491.03	0.0089	0.0013	
Venus	43425-01-01 20:38 G	17581716.16	17581716.36	17581716.58	0.0089	0.0026	
Venus	43425-08-15 09:50 G	17581941.72	17581941.91	17581942.12	0.0089	0.0039	
Venus	43426-03-28 23:02 G	17582167.29	17582167.46	17582167.65	0.0089	0.0052	
Venus	43426-11-09 12:14 G	17582392.88	17582393.01	17582393.18	0.0089	0.0065	
Venus	43427-06-23 01:26 G	17582618.47	17582618.56	17582618.69	0.0089	0.0078	
Mars	43442-04-22 20:24 G	17588036.10	17588036.35	17588036.64	0.0089	0.0031	
Mars	43444-03-16 11:02 G	17588729.75	17588729.96	17588730.23	0.0089	0.0050	
Mercury	43450-09-27 09:07 G	17591115.84	17591115.88	17591115.94	0.0089	0.0082	
Mercury	43450-12-24 10:34 G	17591203.87	17591203.94	17591204.01	0.0089	0.0074	
Mercury	43451-03-22 11:31 G	17591291.91	17591291.98	17591292.08	0.0089	0.0067	
Mercury	43451-06-18 12:58 G	17591379.95	17591380.04	17591380.14	0.0089	0.0059	
Mercury	43451-09-14 14:10 G	17591467.99	17591468.09	17591468.20	0.0089	0.0052	
Mercury	43451-12-11 15:36 G	17591556.04	17591556.15	17591556.27	0.0089	0.0044	
Mercury	43452-03-08 16:48 G	17591644.09	17591644.20	17591644.32	0.0089	0.0036	
Mercury	43452-06-04 18:00 G	17591732.13	17591732.25	17591732.38	0.0089	0.0029	
Mercury	43452-08-31 19:12 G	17591820.18	17591820.30	17591820.44	0.0089	0.0022	

Mercury	43452-11-27 20:38 G	17591908.23	17591908.36	17591908.49	0.0089	0.0014
Mercury	43453-02-23 21:50 G	17591996.28	17591996.41	17591996.55	0.0089	0.0007
Mercury	43453-05-22 23:17 G	17592084.34	17592084.47	17592084.60	0.0089	0.0003
Mercury	43453-08-19 00:29 G	17592172.39	17592172.52	17592172.65	0.0089	0.0009
Mercury	43453-11-15 01:41 G	17592260.44	17592260.57	17592260.70	0.0089	0.0016
Mercury	43454-02-11 02:53 G	17592348.50	17592348.62	17592348.75	0.0089	0.0024
Mercury	43454-05-10 04:05 G	17592436.55	17592436.67	17592436.80	0.0089	0.0032
Mercury	43454-08-06 05:31 G	17592524.61	17592524.73	17592524.85	0.0089	0.0039
Mercury	43454-11-02 06:43 G	17592612.67	17592612.78	17592612.89	0.0089	0.0047
Saturn	43454-12-29 10:19 G	17592669.44	17592669.93	17592670.52	0.0089	0.0053
Mercury	43455-01-29 07:41 G	17592700.73	17592700.82	17592700.94	0.0089	0.0055
Mercury	43455-04-27 09:07 G	17592788.80	17592788.88	17592788.98	0.0089	0.0062
Mercury	43455-07-24 10:19 G	17592876.86	17592876.93	17592877.02	0.0089	0.0070
Mercury	43455-10-20 11:46 G	17592964.93	17592964.99	17592965.06	0.0089	0.0077
Mercury	43456-01-16 12:43 G	17593053.01	17593053.03	17593053.09	0.0089	0.0085
Moon	43471-11-01 11:31 G	17598820.88	17598820.98	17598821.13	0.0088	0.0078
Earth	43471-11-01 11:17 G	17598820.91	17598820.97	17598821.09	0.0088	0.0083 *
Earth	43472-11-02 23:46 G	17599188.30	17599188.49	17599188.68	0.0088	0.0059
Moon	43472-11-03 00:00 G	17599188.35	17599188.50	17599188.70	0.0088	0.0063 *
Moon	43473-11-05 09:22 G	17599555.65	17599555.89	17599556.16	0.0088	0.0030
Earth	43473-11-05 11:02 G	17599555.74	17599555.96	17599556.22	0.0088	0.0035 *
Earth	43474-11-07 23:17 G	17599923.21	17599923.47	17599923.73	0.0088	0.0010
Moon	43474-11-08 02:24 G	17599923.35	17599923.60	17599923.85	0.0088	0.0015 *
Moon	43475-11-10 07:26 G	17600290.56	17600290.81	17600291.07	0.0088	0.0018
Earth	43475-11-10 10:48 G	17600290.70	17600290.95	17600291.22	0.0088	0.0014 *
Earth	43476-11-11 22:19 G	17600658.21	17600658.43	17600658.68	0.0088	0.0038
Moon	43476-11-12 02:10 G	17600658.36	17600658.59	17600658.84	0.0088	0.0033 *
Moon	43477-11-14 07:12 G	17601025.64	17601025.80	17601025.97	0.0088	0.0066
Earth	43477-11-14 09:50 G	17601025.76	17601025.91	17601026.13	0.0088	0.0062 *
Earth	43478-11-16 22:05 G	17601393.36	17601393.42	17601393.48	0.0088	0.0085

Moon	43478-11-17 00:14 G	17601393.42	17601393.51	17601393.63	0.0088	0.0081 *
Venus	43502-03-12 02:38 G	17609908.57	17609908.61	17609908.68	0.0088	0.0085
Venus	43502-10-23 15:22 G	17610134.04	17610134.14	17610134.29	0.0088	0.0073
Venus	43503-06-06 04:05 G	17610359.54	17610359.67	17610359.86	0.0088	0.0061
Venus	43504-01-17 17:17 G	17610585.04	17610585.22	17610585.41	0.0088	0.0048
Venus	43504-08-30 05:46 G	17610810.55	17610810.74	17610810.96	0.0088	0.0036
Venus	43505-04-12 18:43 G	17611036.08	17611036.28	17611036.50	0.0088	0.0024
Venus	43505-11-24 07:41 G	17611261.60	17611261.82	17611262.04	0.0088	0.0011
Venus	43506-07-07 20:24 G	17611487.13	17611487.35	17611487.58	0.0088	0.0002
Venus	43507-02-18 09:07 G	17611712.67	17611712.88	17611713.10	0.0088	0.0014
Venus	43507-10-01 21:50 G	17611938.21	17611938.41	17611938.63	0.0088	0.0026
Venus	43508-05-14 10:34 G	17612163.75	17612163.94	17612164.15	0.0088	0.0038
Venus	43508-12-25 23:02 G	17612389.30	17612389.46	17612389.66	0.0088	0.0051
Venus	43509-08-08 11:46 G	17612614.86	17612614.99	17612615.16	0.0088	0.0063
Venus	43510-03-22 00:43 G	17612840.43	17612840.53	17612840.65	0.0088	0.0075
Venus	43510-11-02 13:55 G	17613066.06	17613066.08	17613066.10	0.0088	0.0087
Mars	43525-12-16 03:22 G	17618588.31	17618588.64	17618589.00	0.0088	0.0011
Mars	43527-11-12 11:17 G	17619284.93	17619284.97	17619285.08	0.0088	0.0087
Mercury	43534-12-03 06:29 G	17621862.74	17621862.77	17621862.84	0.0089	0.0086
Mercury	43535-03-01 10:48 G	17621950.84	17621950.95	17621951.06	0.0089	0.0074
Mercury	43535-05-28 14:10 G	17622038.97	17622039.09	17622039.24	0.0089	0.0063
Mercury	43535-08-24 18:00 G	17622127.10	17622127.25	17622127.42	0.0089	0.0052
Mercury	43535-11-20 22:05 G	17622215.24	17622215.42	17622215.60	0.0089	0.0040
Mercury	43536-02-17 01:41 G	17622303.39	17622303.57	17622303.76	0.0089	0.0029
Mercury	43536-05-15 05:17 G	17622391.54	17622391.72	17622391.93	0.0089	0.0018
Mercury	43536-08-11 09:22 G	17622479.69	17622479.89	17622480.09	0.0089	0.0006
Mercury	43536-11-07 12:58 G	17622567.85	17622568.04	17622568.24	0.0089	0.0006
Mercury	43537-02-03 16:48 G	17622656.01	17622656.20	17622656.39	0.0089	0.0017
Mercury	43537-05-02 20:10 G	17622744.17	17622744.34	17622744.54	0.0089	0.0029
Mercury	43537-07-30 00:00 G	17622832.34	17622832.50	17622832.69	0.0089	0.0040

Mercury	43537-10-26 03:50 G	17622920.51	17622920.66	17622920.83	0.0089	0.0051
Mercury	43538-01-22 07:41 G	17623008.68	17623008.82	17623008.96	0.0089	0.0062
Mercury	43538-04-20 11:02 G	17623096.87	17623096.96	17623097.09	0.0089	0.0074
Mercury	43538-07-17 14:53 G	17623185.08	17623185.12	17623185.19	0.0089	0.0085
Jupiter	43552-08-24 04:34 G	17628336.17	17628336.69	17628337.24	0.0089	0.0012
Moon	43555-05-05 01:26 G	17629320.43	17629320.56	17629320.73	0.0089	0.0072
Earth	43555-05-05 05:02 G	17629320.57	17629320.71	17629320.87	0.0089	0.0072 *
Earth	43556-05-06 16:19 G	17629687.98	17629688.18	17629688.41	0.0089	0.0047
Moon	43556-05-06 19:55 G	17629688.12	17629688.33	17629688.56	0.0089	0.0047 *
Moon	43557-05-09 00:43 G	17630055.28	17630055.53	17630055.78	0.0089	0.0024
Earth	43557-05-09 04:05 G	17630055.43	17630055.67	17630055.92	0.0089	0.0022 *
Earth	43558-05-11 15:50 G	17630422.90	17630423.16	17630423.41	0.0089	0.0003
Moon	43558-05-11 18:58 G	17630423.03	17630423.29	17630423.55	0.0089	0.0004 *
Moon	43559-05-14 01:26 G	17630790.33	17630790.56	17630790.80	0.0089	0.0026
Earth	43559-05-14 03:22 G	17630790.40	17630790.64	17630790.89	0.0089	0.0027 *
Earth	43560-05-15 14:38 G	17631157.92	17631158.11	17631158.33	0.0089	0.0052
Moon	43560-05-15 15:50 G	17631157.98	17631158.16	17631158.40	0.0089	0.0055 *
Earth	43561-05-18 01:55 G	17631525.49	17631525.58	17631525.74	0.0089	0.0078
Moon	43561-05-18 02:38 G	17631525.49	17631525.61	17631525.75	0.0089	0.0076 *
Venus	43584-04-27 21:50 G	17639906.34	17639906.41	17639906.51	0.0090	0.0082
Venus	43584-12-09 11:02 G	17640131.84	17640131.96	17640132.11	0.0090	0.0069
Venus	43585-07-23 00:29 G	17640357.35	17640357.52	17640357.69	0.0090	0.0056
Venus	43586-03-05 13:41 G	17640582.88	17640583.07	17640583.27	0.0090	0.0043
Venus	43586-10-17 02:38 G	17640808.42	17640808.61	17640808.83	0.0090	0.0031
Venus	43587-05-30 16:05 G	17641033.97	17641034.17	17641034.40	0.0090	0.0018
Venus	43588-01-11 05:31 G	17641259.51	17641259.73	17641259.95	0.0090	0.0004
Venus	43588-08-23 18:43 G	17641485.07	17641485.28	17641485.50	0.0090	0.0009
Venus	43589-04-06 08:10 G	17641710.63	17641710.84	17641711.05	0.0089	0.0022
Venus	43589-11-17 21:22 G	17641936.19	17641936.39	17641936.59	0.0089	0.0035
Venus	43590-07-01 10:34 G	17642161.76	17642161.94	17642162.13	0.0089	0.0048



Venus	43591-02-11 23:31 G	17642387.34	17642387.48	17642387.66	0.0089	0.0061
Venus	43591-09-25 12:43 G	17642612.93	17642613.03	17642613.17	0.0089	0.0074
Venus	43592-05-08 01:55 G	17642838.55	17642838.58	17642838.66	0.0089	0.0087
Mars	43605-12-07 13:26 G	17647799.86	17647800.06	17647800.30	0.0089	0.0058
Mars	43607-11-01 04:19 G	17648493.42	17648493.68	17648493.97	0.0089	0.0024
Mercury	43615-03-29 07:55 G	17651198.80	17651198.83	17651198.87	0.0089	0.0085
Mercury	43615-06-25 09:07 G	17651286.83	17651286.88	17651286.95	0.0089	0.0078
Mercury	43615-09-21 10:34 G	17651374.86	17651374.94	17651375.02	0.0089	0.0070
Mercury	43615-12-18 11:46 G	17651462.90	17651462.99	17651463.09	0.0089	0.0063
Mercury	43616-03-15 12:58 G	17651550.95	17651551.04	17651551.15	0.0089	0.0055
Mercury	43616-06-11 14:10 G	17651638.99	17651639.09	17651639.21	0.0089	0.0048
Mercury	43616-09-07 15:36 G	17651727.04	17651727.15	17651727.27	0.0089	0.0040
Mercury	43616-12-04 16:48 G	17651815.08	17651815.20	17651815.33	0.0089	0.0033
Mercury	43617-03-02 18:14 G	17651903.13	17651903.26	17651903.38	0.0089	0.0025
Mercury	43617-05-29 19:26 G	17651991.18	17651991.31	17651991.44	0.0089	0.0017
Mercury	43617-08-25 20:38 G	17652079.23	17652079.36	17652079.49	0.0089	0.0010
Mercury	43617-11-21 21:50 G	17652167.28	17652167.41	17652167.55	0.0089	0.0004
Mercury	43618-02-17 23:17 G	17652255.34	17652255.47	17652255.60	0.0089	0.0006
Mercury	43618-05-17 00:29 G	17652343.39	17652343.52	17652343.65	0.0089	0.0013
Mercury	43618-08-13 01:41 G	17652431.44	17652431.57	17652431.70	0.0089	0.0020
Mercury	43618-11-09 02:53 G	17652519.50	17652519.62	17652519.75	0.0089	0.0028
Mercury	43619-02-05 04:05 G	17652607.56	17652607.67	17652607.80	0.0089	0.0036
Mercury	43619-05-04 05:31 G	17652695.62	17652695.73	17652695.85	0.0089	0.0043
Mercury	43619-07-31 06:43 G	17652783.68	17652783.78	17652783.89	0.0089	0.0051
Mercury	43619-10-27 08:10 G	17652871.74	17652871.84	17652871.93	0.0089	0.0058
Mercury	43620-01-23 09:07 G	17652959.80	17652959.88	17652959.98	0.0089	0.0066
Mercury	43620-04-20 10:19 G	17653047.87	17653047.93	17653048.01	0.0089	0.0074
Mercury	43620-07-17 11:46 G	17653135.94	17653135.99	17653136.05	0.0089	0.0081
Mercury	43620-10-13 12:58 G	17653224.04	17653224.04	17653224.06	0.0089	0.0088
Moon	43636-11-03 07:12 G	17659088.67	17659088.80	17659088.97	0.0088	0.0072

Earth	43636-11-03 10:05 G	17659088.78	17659088.92	17659089.09	0.0088	0.0071	*
Earth	43637-11-05 21:50 G	17659456.20	17659456.41	17659456.64	0.0088	0.0046	
Moon	43637-11-06 00:43 G	17659456.33	17659456.53	17659456.77	0.0088	0.0046	*
Moon	43638-11-08 05:31 G	17659823.50	17659823.73	17659824.00	0.0088	0.0024	
Earth	43638-11-08 09:36 G	17659823.66	17659823.90	17659824.16	0.0088	0.0022	*
Earth	43639-11-10 21:36 G	17660191.14	17660191.40	17660191.66	0.0088	0.0002	
Moon	43639-11-11 00:58 G	17660191.27	17660191.54	17660191.80	0.0088	0.0003	*
Moon	43640-11-12 06:00 G	17660558.52	17660558.75	17660559.01	0.0088	0.0026	
Earth	43640-11-12 09:22 G	17660558.65	17660558.89	17660559.14	0.0088	0.0026	*
Earth	43641-11-14 21:07 G	17660926.17	17660926.38	17660926.59	0.0088	0.0050	
Moon	43641-11-14 22:48 G	17660926.25	17660926.45	17660926.69	0.0088	0.0051	*
Moon	43642-11-17 07:41 G	17661293.71	17661293.82	17661293.97	0.0088	0.0074	
Earth	43642-11-17 08:38 G	17661293.73	17661293.86	17661294.01	0.0088	0.0074	*
Venus	43666-06-13 14:10 G	17669903.09	17669903.09	17669903.13	0.0088	0.0088	
Venus	43667-01-25 03:22 G	17670128.53	17670128.64	17670128.75	0.0088	0.0075	
Venus	43667-09-07 15:50 G	17670354.02	17670354.16	17670354.33	0.0088	0.0063	
Venus	43668-04-20 04:48 G	17670579.53	17670579.70	17670579.89	0.0088	0.0051	
Venus	43668-12-01 17:31 G	17670805.05	17670805.23	17670805.44	0.0088	0.0039	
Venus	43669-07-15 06:43 G	17671030.57	17671030.78	17671030.99	0.0088	0.0026	
Venus	43670-02-25 19:26 G	17671256.09	17671256.31	17671256.53	0.0088	0.0014	
Venus	43670-10-09 08:24 G	17671481.63	17671481.85	17671482.07	0.0088	0.0002	
Venus	43671-05-22 20:53 G	17671707.16	17671707.37	17671707.60	0.0088	0.0011	
Venus	43672-01-03 09:36 G	17671932.70	17671932.90	17671933.12	0.0088	0.0023	
Venus	43672-08-15 22:19 G	17672158.24	17672158.43	17672158.64	0.0088	0.0035	
Venus	43673-03-29 11:17 G	17672383.79	17672383.97	17672384.16	0.0088	0.0047	
Venus	43673-11-09 23:46 G	17672609.35	17672609.49	17672609.67	0.0088	0.0060	
Venus	43674-06-23 12:29 G	17672834.92	17672835.02	17672835.17	0.0088	0.0072	
Venus	43675-02-04 01:12 G	17673060.51	17673060.55	17673060.64	0.0088	0.0084	
Mars	43689-07-29 18:14 G	17678349.98	17678350.26	17678350.58	0.0088	0.0042	
Mars	43691-06-26 01:12 G	17679046.30	17679046.55	17679046.84	0.0088	0.0055	

Mercury	43699-08-30 05:31 G	17682033.66	17682033.73	17682033.83	0.0089	0.0080
Mercury	43699-11-26 09:07 G	17682121.78	17682121.88	17682122.03	0.0089	0.0069
Mercury	43700-02-22 13:12 G	17682209.91	17682210.05	17682210.21	0.0089	0.0057
Mercury	43700-05-21 17:02 G	17682298.05	17682298.21	17682298.39	0.0089	0.0046
Mercury	43700-08-17 20:38 G	17682386.19	17682386.36	17682386.56	0.0089	0.0035
Mercury	43700-11-14 00:43 G	17682474.34	17682474.53	17682474.72	0.0089	0.0023
Mercury	43701-02-10 04:19 G	17682562.49	17682562.68	17682562.88	0.0089	0.0012
Mercury	43701-05-09 08:10 G	17682650.64	17682650.84	17682651.04	0.0089	0.0001
Mercury	43701-08-05 11:46 G	17682738.80	17682738.99	17682739.19	0.0089	0.0012
Mercury	43701-11-01 15:36 G	17682826.96	17682827.15	17682827.35	0.0089	0.0023
Mercury	43702-01-28 19:26 G	17682915.13	17682915.31	17682915.49	0.0089	0.0034
Mercury	43702-04-26 22:48 G	17683003.30	17683003.45	17683003.63	0.0089	0.0046
Mercury	43702-07-24 02:38 G	17683091.47	17683091.61	17683091.77	0.0089	0.0057
Mercury	43702-10-20 06:29 G	17683179.65	17683179.77	17683179.90	0.0089	0.0068
Mercury	43703-01-16 10:19 G	17683267.85	17683267.93	17683268.02	0.0089	0.0079
Earth	43719-05-05 15:50 G	17689221.10	17689221.16	17689221.27	0.0089	0.0084
Moon	43719-05-05 20:10 G	17689221.32	17689221.34	17689221.37	0.0089	0.0089
Moon	43720-05-07 00:43 G	17689588.34	17689588.53	17689588.74	0.0089	0.0055
Earth	43720-05-07 03:36 G	17689588.48	17689588.65	17689588.86	0.0089	0.0060 *
Earth	43721-05-09 15:22 G	17689955.92	17689956.14	17689956.39	0.0089	0.0035
Moon	43721-05-09 18:14 G	17689956.03	17689956.26	17689956.50	0.0089	0.0039 *
Moon	43722-05-12 01:26 G	17690323.31	17690323.56	17690323.81	0.0089	0.0005
Earth	43722-05-12 03:07 G	17690323.38	17690323.63	17690323.89	0.0089	0.0010 *
Moon	43723-05-14 14:53 G	17690690.86	17690691.12	17690691.39	0.0089	0.0011
Earth	43723-05-14 14:38 G	17690690.87	17690691.11	17690691.37	0.0089	0.0016 *
Earth	43724-05-16 02:10 G	17691058.37	17691058.59	17691058.83	0.0089	0.0041
Moon	43724-05-16 02:53 G	17691058.41	17691058.62	17691058.84	0.0089	0.0045 *
Moon	43725-05-18 11:46 G	17691425.81	17691425.99	17691426.20	0.0089	0.0061
Earth	43725-05-18 13:41 G	17691425.91	17691426.07	17691426.26	0.0089	0.0066 *
Venus	43748-07-31 09:07 G	17699900.84	17699900.88	17699900.98	0.0090	0.0085

Venus	43749-03-13 22:34 G	17700126.33	17700126.44	17700126.59	0.0090	0.0072
Venus	43749-10-25 12:00 G	17700351.85	17700352.00	17700352.18	0.0090	0.0059
Venus	43750-06-08 01:26 G	17700577.38	17700577.56	17700577.76	0.0090	0.0046
Venus	43751-01-19 14:53 G	17700802.91	17700803.12	17700803.32	0.0090	0.0033
Venus	43751-09-02 03:50 G	17701028.45	17701028.66	17701028.88	0.0090	0.0020
Venus	43752-04-14 17:17 G	17701254.00	17701254.22	17701254.44	0.0090	0.0007
Venus	43752-11-26 06:29 G	17701479.55	17701479.77	17701479.99	0.0090	0.0006
Venus	43753-07-09 19:41 G	17701705.11	17701705.32	17701705.54	0.0090	0.0019
Venus	43754-02-20 08:38 G	17701930.67	17701930.86	17701931.08	0.0089	0.0032
Venus	43754-10-03 21:50 G	17702156.23	17702156.41	17702156.61	0.0089	0.0045
Venus	43755-05-17 11:02 G	17702381.81	17702381.96	17702382.15	0.0089	0.0058
Venus	43755-12-29 00:43 G	17702607.40	17702607.53	17702607.67	0.0089	0.0070
Venus	43756-08-10 13:41 G	17702833.00	17702833.07	17702833.17	0.0089	0.0083
Mars	43769-07-24 03:22 G	17707563.60	17707563.64	17707563.74	0.0089	0.0087
Mars	43771-06-17 21:22 G	17708257.11	17708257.39	17708257.69	0.0089	0.0004
Mars	43773-05-11 11:46 G	17708950.87	17708950.99	17708951.15	0.0089	0.0078
Mercury	43779-12-25 07:41 G	17711369.79	17711369.82	17711369.88	0.0089	0.0082
Mercury	43780-03-22 09:07 G	17711457.82	17711457.88	17711457.96	0.0089	0.0074
Mercury	43780-06-18 10:19 G	17711545.86	17711545.93	17711546.03	0.0089	0.0067
Mercury	43780-09-14 11:46 G	17711633.90	17711633.99	17711634.09	0.0089	0.0059
Mercury	43780-12-11 12:58 G	17711721.94	17711722.04	17711722.15	0.0089	0.0051
Mercury	43781-03-09 14:10 G	17711809.98	17711810.09	17711810.21	0.0089	0.0044
Mercury	43781-06-05 15:36 G	17711898.03	17711898.15	17711898.27	0.0089	0.0036
Mercury	43781-09-01 16:48 G	17711986.08	17711986.20	17711986.33	0.0089	0.0029
Mercury	43781-11-28 18:00 G	17712074.13	17712074.25	17712074.38	0.0089	0.0021
Mercury	43782-02-24 19:26 G	17712162.18	17712162.31	17712162.44	0.0089	0.0014
Mercury	43782-05-23 20:38 G	17712250.23	17712250.36	17712250.49	0.0089	0.0006
Mercury	43782-08-19 21:50 G	17712338.28	17712338.41	17712338.54	0.0089	0.0003
Mercury	43782-11-15 23:02 G	17712426.34	17712426.46	17712426.60	0.0089	0.0010
Mercury	43783-02-12 00:29 G	17712514.39	17712514.52	17712514.65	0.0089	0.0017

Mercury	43783-05-11 01:41 G	17712602.45	17712602.57	17712602.70	0.0089	0.0024
Mercury	43783-08-07 02:53 G	17712690.50	17712690.62	17712690.75	0.0089	0.0032
Mercury	43783-11-03 04:05 G	17712778.56	17712778.67	17712778.80	0.0089	0.0040
Mercury	43784-01-30 05:31 G	17712866.62	17712866.73	17712866.84	0.0089	0.0047
Mercury	43784-04-27 06:43 G	17712954.68	17712954.78	17712954.89	0.0089	0.0055
Mercury	43784-07-24 08:10 G	17713042.74	17713042.84	17713042.93	0.0089	0.0062
Mercury	43784-10-20 09:07 G	17713130.81	17713130.88	17713130.97	0.0089	0.0070
Mercury	43785-01-16 10:19 G	17713218.88	17713218.93	17713219.01	0.0089	0.0078
Mercury	43785-04-14 11:46 G	17713306.96	17713306.99	17713307.03	0.0089	0.0085
Earth	43800-11-04 20:38 G	17718989.27	17718989.36	17718989.45	0.0088	0.0083
Moon	43800-11-04 23:31 G	17718989.40	17718989.48	17718989.63	0.0088	0.0079 *
Moon	43801-11-07 04:34 G	17719356.52	17719356.69	17719356.88	0.0088	0.0063
Earth	43801-11-07 07:55 G	17719356.65	17719356.83	17719357.04	0.0088	0.0059 *
Earth	43802-11-09 19:41 G	17719724.09	17719724.32	17719724.57	0.0088	0.0034
Moon	43802-11-09 23:31 G	17719724.23	17719724.48	17719724.73	0.0088	0.0029 *
Moon	43803-11-12 05:17 G	17720091.48	17720091.72	17720091.98	0.0088	0.0014
Earth	43803-11-12 07:41 G	17720091.56	17720091.82	17720092.08	0.0088	0.0010 *
Earth	43804-11-13 19:12 G	17720459.05	17720459.30	17720459.57	0.0088	0.0015
Moon	43804-11-13 20:38 G	17720459.11	17720459.36	17720459.64	0.0088	0.0019 *
Moon	43805-11-16 06:29 G	17720826.55	17720826.77	17720827.02	0.0088	0.0035
Earth	43805-11-16 06:43 G	17720826.56	17720826.78	17720827.03	0.0088	0.0039 *
Moon	43806-11-18 16:48 G	17721194.05	17721194.20	17721194.40	0.0088	0.0067
Earth	43806-11-18 18:14 G	17721194.10	17721194.26	17721194.46	0.0088	0.0063 *
Earth	43807-11-21 06:00 G	17721561.74	17721561.75	17721561.80	0.0088	0.0087
Moon	43807-11-21 08:10 G	17721561.77	17721561.84	17721561.93	0.0088	0.0083 *
Venus	43831-04-30 14:38 G	17730123.03	17730123.11	17730123.23	0.0088	0.0078
Venus	43831-12-12 03:22 G	17730348.52	17730348.64	17730348.81	0.0088	0.0066
Venus	43832-07-24 16:05 G	17730574.02	17730574.17	17730574.37	0.0088	0.0054
Venus	43833-03-07 05:02 G	17730799.53	17730799.71	17730799.92	0.0088	0.0042
Venus	43833-10-18 18:14 G	17731025.05	17731025.26	17731025.47	0.0088	0.0029

Venus	43834-06-01 06:58 G	17731250.58	17731250.79	17731251.01	0.0088	0.0017
Venus	43835-01-12 19:55 G	17731476.11	17731476.33	17731476.55	0.0088	0.0005
Venus	43835-08-26 08:24 G	17731701.64	17731701.85	17731702.08	0.0088	0.0008
Venus	43836-04-07 21:07 G	17731927.18	17731927.38	17731927.61	0.0088	0.0020
Venus	43836-11-19 10:05 G	17732152.72	17732152.92	17732153.14	0.0088	0.0032
Venus	43837-07-02 22:48 G	17732378.27	17732378.45	17732378.65	0.0088	0.0044
Venus	43838-02-13 11:46 G	17732603.82	17732603.99	17732604.16	0.0088	0.0056
Venus	43838-09-27 00:29 G	17732829.39	17732829.52	17732829.66	0.0088	0.0068
Venus	43839-05-10 13:26 G	17733054.97	17733055.06	17733055.14	0.0088	0.0080
Mars	43853-03-14 10:34 G	17738111.79	17738111.94	17738112.17	0.0088	0.0074
Mars	43855-02-08 16:05 G	17738807.85	17738808.17	17738808.51	0.0088	0.0023
Mercury	43864-03-01 00:58 G	17742116.50	17742116.54	17742116.60	0.0089	0.0085
Mercury	43864-05-28 04:34 G	17742204.60	17742204.69	17742204.82	0.0089	0.0074
Mercury	43864-08-24 08:10 G	17742292.72	17742292.84	17742293.00	0.0089	0.0063
Mercury	43864-11-20 12:14 G	17742380.86	17742381.01	17742381.18	0.0089	0.0051
Mercury	43865-02-16 15:50 G	17742469.00	17742469.16	17742469.35	0.0089	0.0040
Mercury	43865-05-15 19:55 G	17742557.14	17742557.33	17742557.52	0.0089	0.0028
Mercury	43865-08-11 23:31 G	17742645.29	17742645.48	17742645.68	0.0089	0.0017
Mercury	43865-11-08 03:22 G	17742733.45	17742733.64	17742733.84	0.0089	0.0006
Mercury	43866-02-04 07:12 G	17742821.60	17742821.80	17742822.00	0.0089	0.0006
Mercury	43866-05-03 10:48 G	17742909.76	17742909.95	17742910.15	0.0089	0.0017
Mercury	43866-07-30 14:24 G	17742997.92	17742998.10	17742998.30	0.0089	0.0029
Mercury	43866-10-26 18:14 G	17743086.09	17743086.26	17743086.44	0.0089	0.0040
Mercury	43867-01-22 21:36 G	17743174.26	17743174.40	17743174.58	0.0089	0.0052
Mercury	43867-04-21 01:26 G	17743262.44	17743262.56	17743262.72	0.0089	0.0063
Mercury	43867-07-18 05:17 G	17743350.63	17743350.72	17743350.84	0.0089	0.0074
Mercury	43867-10-14 09:07 G	17743438.84	17743438.88	17743438.94	0.0089	0.0085
Earth	43884-05-07 14:38 G	17749488.97	17749489.11	17749489.27	0.0089	0.0072
Moon	43884-05-07 16:48 G	17749489.04	17749489.20	17749489.36	0.0089	0.0071 *
Moon	43885-05-10 01:12 G	17749856.35	17749856.55	17749856.77	0.0089	0.0047

Earth	43885-05-10 02:24 G	17749856.39	17749856.60	17749856.82	0.0089	0.0047	*
Earth	43886-05-12 14:10 G	17750223.84	17750224.09	17750224.34	0.0089	0.0022	
Moon	43886-05-12 14:10 G	17750223.84	17750224.09	17750224.35	0.0089	0.0022	*
Earth	43887-05-15 01:55 G	17750591.32	17750591.58	17750591.83	0.0089	0.0003	
Moon	43887-05-15 03:22 G	17750591.40	17750591.64	17750591.89	0.0089	0.0004	*
Moon	43888-05-16 10:34 G	17750958.71	17750958.94	17750959.21	0.0089	0.0030	
Earth	43888-05-16 13:12 G	17750958.82	17750959.05	17750959.30	0.0089	0.0029	*
Earth	43889-05-19 00:58 G	17751326.34	17751326.54	17751326.75	0.0089	0.0054	
Moon	43889-05-19 03:50 G	17751326.48	17751326.66	17751326.87	0.0089	0.0055	*
Moon	43890-05-21 08:38 G	17751693.77	17751693.86	17751694.00	0.0089	0.0080	
Earth	43890-05-21 12:29 G	17751693.92	17751694.02	17751694.16	0.0089	0.0079	*
Venus	43912-11-03 20:53 G	17759895.33	17759895.37	17759895.43	0.0090	0.0087	
Venus	43913-06-17 09:50 G	17760120.81	17760120.91	17760121.05	0.0090	0.0075	
Venus	43914-01-28 23:17 G	17760346.33	17760346.47	17760346.64	0.0090	0.0062	
Venus	43914-09-11 12:43 G	17760571.85	17760572.03	17760572.22	0.0090	0.0049	
Venus	43915-04-25 02:10 G	17760797.39	17760797.59	17760797.79	0.0090	0.0036	
Venus	43915-12-06 15:07 G	17761022.93	17761023.13	17761023.35	0.0090	0.0024	
Venus	43916-07-19 04:34 G	17761248.47	17761248.69	17761248.91	0.0090	0.0011	
Venus	43917-03-01 17:46 G	17761474.02	17761474.24	17761474.46	0.0090	0.0002	
Venus	43917-10-13 06:58 G	17761699.58	17761699.79	17761700.01	0.0090	0.0015	
Venus	43918-05-26 20:10 G	17761925.14	17761925.34	17761925.56	0.0089	0.0028	
Venus	43919-01-07 09:22 G	17762150.70	17762150.89	17762151.09	0.0089	0.0041	
Venus	43919-08-20 22:19 G	17762376.27	17762376.43	17762376.62	0.0089	0.0054	
Venus	43920-04-02 12:00 G	17762601.85	17762602.00	17762602.15	0.0089	0.0066	
Venus	43920-11-14 00:58 G	17762827.45	17762827.54	17762827.65	0.0089	0.0079	
Mars	43935-02-02 11:02 G	17768020.70	17768020.96	17768021.24	0.0089	0.0032	
Mars	43936-12-27 03:36 G	17768714.44	17768714.65	17768714.91	0.0089	0.0051	
Mercury	43944-06-26 06:29 G	17771452.75	17771452.77	17771452.81	0.0089	0.0086	
Mercury	43944-09-22 07:55 G	17771540.77	17771540.83	17771540.89	0.0089	0.0078	
Mercury	43944-12-19 08:53 G	17771628.81	17771628.87	17771628.96	0.0089	0.0071	

Mercury	43945-03-17 10:19 G	17771716.85	17771716.93	17771717.03	0.0089	0.0063
Mercury	43945-06-13 11:31 G	17771804.89	17771804.98	17771805.09	0.0089	0.0056
Mercury	43945-09-09 12:58 G	17771892.93	17771893.04	17771893.15	0.0089	0.0048
Mercury	43945-12-06 14:10 G	17771980.98	17771981.09	17771981.21	0.0089	0.0040
Mercury	43946-03-04 15:22 G	17772069.02	17772069.14	17772069.27	0.0089	0.0033
Mercury	43946-05-31 16:48 G	17772157.07	17772157.20	17772157.32	0.0089	0.0025
Mercury	43946-08-27 18:00 G	17772245.12	17772245.25	17772245.38	0.0089	0.0018
Mercury	43946-11-23 19:12 G	17772333.17	17772333.30	17772333.43	0.0089	0.0010
Mercury	43947-02-19 20:38 G	17772421.23	17772421.36	17772421.49	0.0089	0.0003
Mercury	43947-05-18 21:50 G	17772509.28	17772509.41	17772509.54	0.0089	0.0005
Mercury	43947-08-14 23:02 G	17772597.33	17772597.46	17772597.59	0.0089	0.0013
Mercury	43947-11-11 00:14 G	17772685.39	17772685.51	17772685.64	0.0089	0.0020
Mercury	43948-02-07 01:41 G	17772773.44	17772773.57	17772773.69	0.0089	0.0028
Mercury	43948-05-05 02:38 G	17772861.50	17772861.61	17772861.74	0.0089	0.0036
Mercury	43948-08-01 04:05 G	17772949.56	17772949.67	17772949.79	0.0089	0.0043
Mercury	43948-10-28 05:17 G	17773037.62	17773037.72	17773037.83	0.0089	0.0051
Mercury	43949-01-24 06:43 G	17773125.68	17773125.78	17773125.88	0.0089	0.0058
Mercury	43949-04-22 07:41 G	17773213.75	17773213.82	17773213.92	0.0089	0.0066
Mercury	43949-07-19 08:53 G	17773301.81	17773301.87	17773301.96	0.0089	0.0074
Mercury	43949-10-15 10:19 G	17773389.89	17773389.93	17773389.99	0.0089	0.0081
Mercury	43950-01-11 11:31 G	17773477.98	17773477.98	17773478.00	0.0089	0.0089
Earth	43965-11-07 18:14 G	17779257.12	17779257.26	17779257.43	0.0088	0.0071
Moon	43965-11-07 21:07 G	17779257.25	17779257.38	17779257.55	0.0088	0.0073 *
Moon	43966-11-10 03:50 G	17779624.46	17779624.66	17779624.90	0.0088	0.0044
Earth	43966-11-10 06:00 G	17779624.55	17779624.75	17779624.99	0.0088	0.0046 *
Earth	43967-11-12 18:14 G	17779992.01	17779992.26	17779992.51	0.0088	0.0021
Moon	43967-11-12 18:29 G	17779992.02	17779992.27	17779992.54	0.0088	0.0024 *
Earth	43968-11-14 05:46 G	17780359.48	17780359.74	17780360.00	0.0088	0.0003
Moon	43968-11-14 06:14 G	17780359.51	17780359.76	17780360.01	0.0088	0.0005 *
Moon	43969-11-16 15:36 G	17780726.90	17780727.15	17780727.42	0.0088	0.0025



Earth	43969-11-16 17:17 G	17780726.98	17780727.22	17780727.47	0.0088	0.0027	*
Earth	43970-11-19 04:19 G	17781094.50	17781094.68	17781094.92	0.0088	0.0052	
Moon	43970-11-19 07:41 G	17781094.63	17781094.82	17781095.03	0.0088	0.0054	*
Moon	43971-11-21 12:43 G	17781461.92	17781462.03	17781462.21	0.0088	0.0074	
Earth	43971-11-21 16:19 G	17781462.07	17781462.18	17781462.33	0.0088	0.0076	*
Venus	43995-08-03 02:38 G	17790117.52	17790117.61	17790117.69	0.0088	0.0080	
Venus	43996-03-15 15:22 G	17790343.00	17790343.14	17790343.27	0.0088	0.0068	
Venus	43996-10-27 04:05 G	17790568.51	17790568.67	17790568.84	0.0088	0.0056	
Venus	43997-06-09 16:48 G	17790794.02	17790794.20	17790794.40	0.0088	0.0044	
Venus	43998-01-21 05:31 G	17791019.53	17791019.73	17791019.94	0.0088	0.0032	
Venus	43998-09-03 18:14 G	17791245.05	17791245.26	17791245.48	0.0088	0.0020	
Venus	43999-04-17 07:12 G	17791470.58	17791470.80	17791471.02	0.0088	0.0008	
Venus	43999-11-28 20:10 G	17791696.12	17791696.34	17791696.56	0.0088	0.0004	
Venus	44000-07-11 08:53 G	17791921.66	17791921.87	17791922.09	0.0088	0.0017	

# 45TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 45th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	44001-02-21 21:36 G		17792147.20	17792147.40	17792147.62	0.0088	0.0029	
Venus	44001-10-05 10:19 G		17792372.75	17792372.93	17792373.14	0.0088	0.0041	
Venus	44002-05-18 23:02 G		17792598.30	17792598.46	17792598.65	0.0088	0.0053	
Venus	44002-12-30 12:00 G		17792823.86	17792824.00	17792824.16	0.0088	0.0065	

Venus	44003-08-13 00:43 G	17793049.44	17793049.53	17793049.65	0.0088	0.0077
Mars	44018-09-23 06:58 G	17798569.46	17798569.79	17798570.14	0.0088	0.0010
Mars	44020-08-19 11:17 G	17799265.95	17799265.97	17799266.07	0.0088	0.0088
Mercury	44028-11-26 23:31 G	17802287.41	17802287.48	17802287.58	0.0089	0.0080
Mercury	44029-02-23 03:07 G	17802375.53	17802375.63	17802375.78	0.0089	0.0069
Mercury	44029-05-22 07:12 G	17802463.66	17802463.80	17802463.96	0.0089	0.0057
Mercury	44029-08-18 10:48 G	17802551.80	17802551.95	17802552.14	0.0089	0.0046
Mercury	44029-11-14 14:53 G	17802639.94	17802640.12	17802640.31	0.0089	0.0034
Mercury	44030-02-10 18:43 G	17802728.09	17802728.28	17802728.47	0.0089	0.0023
Mercury	44030-05-09 22:19 G	17802816.24	17802816.43	17802816.63	0.0089	0.0012
Mercury	44030-08-06 02:10 G	17802904.40	17802904.59	17802904.79	0.0089	0.0002
Mercury	44030-11-02 06:00 G	17802992.55	17802992.75	17802992.95	0.0089	0.0011
Mercury	44031-01-29 09:36 G	17803080.72	17803080.90	17803081.10	0.0089	0.0023
Mercury	44031-04-27 13:12 G	17803168.88	17803169.05	17803169.24	0.0089	0.0035
Mercury	44031-07-24 16:48 G	17803257.05	17803257.20	17803257.39	0.0089	0.0046
Mercury	44031-10-20 20:38 G	17803345.22	17803345.36	17803345.52	0.0089	0.0057
Mercury	44032-01-17 00:43 G	17803433.40	17803433.53	17803433.65	0.0089	0.0068
Mercury	44032-04-14 03:50 G	17803521.60	17803521.66	17803521.77	0.0089	0.0080
Earth	44048-05-08 00:43 G	17809389.48	17809389.53	17809389.64	0.0089	0.0085
Moon	44048-05-08 00:43 G	17809389.53	17809389.53	17809389.57	0.0089	0.0089 *
Moon	44049-05-10 11:31 G	17809756.79	17809756.98	17809757.20	0.0089	0.0055
Earth	44049-05-10 12:29 G	17809756.85	17809757.02	17809757.23	0.0089	0.0060 *
Earth	44050-05-13 00:14 G	17810124.29	17810124.51	17810124.76	0.0089	0.0035
Moon	44050-05-13 02:10 G	17810124.37	17810124.59	17810124.82	0.0089	0.0039 *
Moon	44051-05-15 09:07 G	17810491.62	17810491.88	17810492.14	0.0089	0.0004
Earth	44051-05-15 12:14 G	17810491.76	17810492.01	17810492.27	0.0089	0.0009 *
Earth	44052-05-16 23:46 G	17810859.25	17810859.49	17810859.75	0.0089	0.0016
Moon	44052-05-17 03:22 G	17810859.39	17810859.64	17810859.89	0.0089	0.0012 *
Moon	44053-05-19 07:41 G	17811226.62	17811226.82	17811227.06	0.0089	0.0047
Earth	44053-05-19 11:17 G	17811226.76	17811226.97	17811227.22	0.0089	0.0042 *

Earth	44054-05-21 22:48 G	17811594.30	17811594.45	17811594.64	0.0089	0.0067
Moon	44054-05-22 02:24 G	17811594.42	17811594.60	17811594.80	0.0089	0.0062 *
Venus	44077-09-18 21:22 G	17820115.29	17820115.39	17820115.51	0.0090	0.0077
Venus	44078-05-02 10:34 G	17820340.81	17820340.94	17820341.11	0.0090	0.0065
Venus	44078-12-14 00:00 G	17820566.33	17820566.50	17820566.69	0.0090	0.0052
Venus	44079-07-27 12:58 G	17820791.86	17820792.04	17820792.26	0.0090	0.0040
Venus	44080-03-09 02:24 G	17821017.40	17821017.60	17821017.82	0.0090	0.0027
Venus	44080-10-20 15:50 G	17821242.95	17821243.16	17821243.38	0.0090	0.0014
Venus	44081-06-03 05:17 G	17821468.50	17821468.72	17821468.94	0.0090	0.0001
Venus	44082-01-14 18:29 G	17821694.05	17821694.27	17821694.49	0.0090	0.0012
Venus	44082-08-28 07:26 G	17821919.61	17821919.81	17821920.03	0.0090	0.0025
Venus	44083-04-10 20:53 G	17822145.17	17822145.37	17822145.57	0.0090	0.0037
Venus	44083-11-22 09:50 G	17822370.74	17822370.91	17822371.10	0.0089	0.0050
Venus	44084-07-04 22:48 G	17822596.31	17822596.45	17822596.63	0.0089	0.0063
Venus	44085-02-15 12:14 G	17822821.90	17822822.01	17822822.14	0.0089	0.0075
Venus	44085-09-29 00:58 G	17823047.52	17823047.54	17823047.61	0.0089	0.0088
Mars	44098-09-18 00:29 G	17827784.32	17827784.52	17827784.75	0.0089	0.0060
Mars	44100-08-12 17:31 G	17828477.95	17828478.23	17828478.51	0.0089	0.0023
Mercury	44109-03-24 06:29 G	17831623.73	17831623.77	17831623.83	0.0089	0.0082
Mercury	44109-06-20 07:55 G	17831711.76	17831711.83	17831711.90	0.0089	0.0074
Mercury	44109-09-16 08:53 G	17831799.80	17831799.87	17831799.97	0.0089	0.0067
Mercury	44109-12-13 10:05 G	17831887.84	17831887.92	17831888.03	0.0089	0.0060
Mercury	44110-03-11 11:31 G	17831975.88	17831975.98	17831976.09	0.0089	0.0052
Mercury	44110-06-07 12:58 G	17832063.93	17832064.04	17832064.15	0.0089	0.0044
Mercury	44110-09-03 14:10 G	17832151.97	17832152.09	17832152.21	0.0089	0.0037
Mercury	44110-11-30 15:22 G	17832240.02	17832240.14	17832240.27	0.0089	0.0029
Mercury	44111-02-26 16:34 G	17832328.07	17832328.19	17832328.32	0.0089	0.0022
Mercury	44111-05-25 18:00 G	17832416.12	17832416.25	17832416.38	0.0089	0.0014
Mercury	44111-08-21 19:12 G	17832504.17	17832504.30	17832504.43	0.0089	0.0006
Mercury	44111-11-17 20:24 G	17832592.22	17832592.35	17832592.48	0.0089	0.0002

Mercury	44112-02-13 21:50 G	17832680.28	17832680.41	17832680.54	0.0089	0.0009
Mercury	44112-05-11 23:02 G	17832768.33	17832768.46	17832768.59	0.0089	0.0016
Mercury	44112-08-08 00:14 G	17832856.38	17832856.51	17832856.64	0.0089	0.0024
Mercury	44112-11-04 01:26 G	17832944.44	17832944.56	17832944.69	0.0089	0.0031
Mercury	44113-01-31 02:38 G	17833032.50	17833032.61	17833032.73	0.0089	0.0039
Mercury	44113-04-29 03:50 G	17833120.56	17833120.66	17833120.78	0.0089	0.0047
Mercury	44113-07-26 05:17 G	17833208.62	17833208.72	17833208.83	0.0089	0.0054
Mercury	44113-10-22 06:29 G	17833296.68	17833296.77	17833296.87	0.0089	0.0062
Mercury	44114-01-18 07:41 G	17833384.75	17833384.82	17833384.91	0.0089	0.0069
Mercury	44114-04-16 08:53 G	17833472.82	17833472.87	17833472.95	0.0089	0.0077
Mercury	44114-07-13 10:05 G	17833560.90	17833560.92	17833560.97	0.0089	0.0085
Jupiter	44127-09-07 06:29 G	17838364.27	17838364.77	17838365.34	0.0088	0.0021
Moon	44129-11-08 02:38 G	17839157.53	17839157.61	17839157.73	0.0088	0.0080
Earth	44129-11-08 03:22 G	17839157.58	17839157.64	17839157.75	0.0088	0.0083 *
Earth	44130-11-10 15:36 G	17839524.97	17839525.15	17839525.36	0.0088	0.0058
Moon	44130-11-10 15:36 G	17839524.98	17839525.15	17839525.37	0.0088	0.0062 *
Earth	44131-11-13 03:22 G	17839892.41	17839892.64	17839892.89	0.0088	0.0034
Moon	44131-11-13 04:34 G	17839892.47	17839892.69	17839892.95	0.0088	0.0031 *
Moon	44132-11-14 12:43 G	17840259.77	17840260.03	17840260.30	0.0088	0.0012
Earth	44132-11-14 15:22 G	17840259.88	17840260.14	17840260.40	0.0088	0.0009 *
Earth	44133-11-17 02:53 G	17840627.37	17840627.62	17840627.88	0.0088	0.0015
Moon	44133-11-17 05:31 G	17840627.49	17840627.73	17840627.99	0.0088	0.0019 *
Moon	44134-11-19 10:34 G	17840994.72	17840994.94	17840995.19	0.0088	0.0036
Earth	44134-11-19 14:10 G	17840994.88	17840995.09	17840995.35	0.0088	0.0040 *
Earth	44135-11-22 01:41 G	17841362.42	17841362.57	17841362.77	0.0088	0.0064
Moon	44135-11-22 05:02 G	17841362.57	17841362.71	17841362.90	0.0088	0.0068 *
Moon	44136-11-23 10:34 G	17841729.87	17841729.94	17841730.01	0.0088	0.0084
Venus	44159-11-05 13:26 G	17850112.01	17850112.06	17850112.15	0.0088	0.0083
Venus	44160-06-18 02:24 G	17850337.48	17850337.60	17850337.74	0.0088	0.0071
Venus	44161-01-29 15:07 G	17850562.97	17850563.13	17850563.30	0.0088	0.0059

Venus	44161-09-12 03:50 G	17850788.48	17850788.66	17850788.85	0.0088	0.0047
Venus	44162-04-25 16:34 G	17851013.99	17851014.19	17851014.40	0.0088	0.0035
Venus	44162-12-07 05:31 G	17851239.52	17851239.73	17851239.94	0.0088	0.0023
Venus	44163-07-20 18:14 G	17851465.04	17851465.26	17851465.48	0.0088	0.0011
Venus	44164-03-02 06:58 G	17851690.57	17851690.79	17851691.01	0.0088	0.0001
Venus	44164-10-13 19:55 G	17851916.11	17851916.33	17851916.55	0.0088	0.0013
Venus	44165-05-27 08:38 G	17852141.65	17852141.86	17852142.08	0.0088	0.0025
Venus	44166-01-07 21:22 G	17852367.20	17852367.39	17852367.60	0.0088	0.0037
Venus	44166-08-21 10:05 G	17852592.75	17852592.92	17852593.11	0.0088	0.0049
Venus	44167-04-03 23:02 G	17852818.31	17852818.46	17852818.62	0.0088	0.0061
Venus	44167-11-15 11:46 G	17853043.88	17853043.99	17853044.12	0.0088	0.0073
Venus	44168-06-28 00:43 G	17853269.49	17853269.53	17853269.59	0.0088	0.0085
Mars	44182-05-07 21:36 G	17858331.12	17858331.40	17858331.72	0.0088	0.0042
Mars	44184-04-03 01:55 G	17859027.35	17859027.58	17859027.88	0.0088	0.0055
Mercury	44193-05-28 18:43 G	17862370.24	17862370.28	17862370.32	0.0089	0.0086
Mercury	44193-08-24 22:05 G	17862458.33	17862458.42	17862458.54	0.0089	0.0075
Mercury	44193-11-21 01:55 G	17862546.46	17862546.58	17862546.73	0.0089	0.0064
Mercury	44194-02-17 05:46 G	17862634.59	17862634.74	17862634.91	0.0089	0.0052
Mercury	44194-05-16 09:36 G	17862722.73	17862722.90	17862723.08	0.0089	0.0041
Mercury	44194-08-12 13:41 G	17862810.88	17862811.07	17862811.25	0.0089	0.0029
Mercury	44194-11-08 17:17 G	17862899.03	17862899.22	17862899.42	0.0089	0.0018
Mercury	44195-02-04 21:07 G	17862987.18	17862987.38	17862987.58	0.0089	0.0006
Mercury	44195-05-04 00:43 G	17863075.34	17863075.53	17863075.73	0.0089	0.0006
Mercury	44195-07-31 04:34 G	17863163.50	17863163.69	17863163.89	0.0089	0.0017
Mercury	44195-10-27 08:10 G	17863251.66	17863251.84	17863252.04	0.0089	0.0028
Mercury	44196-01-23 11:46 G	17863339.83	17863339.99	17863340.18	0.0089	0.0040
Mercury	44196-04-20 15:36 G	17863428.00	17863428.15	17863428.32	0.0089	0.0051
Mercury	44196-07-17 19:26 G	17863516.17	17863516.31	17863516.46	0.0089	0.0062
Mercury	44196-10-13 22:48 G	17863604.36	17863604.45	17863604.58	0.0089	0.0074
Mercury	44197-01-10 02:38 G	17863692.57	17863692.61	17863692.68	0.0089	0.0085

Earth	44213-05-11 22:48 G	17869657.32	17869657.45	17869657.62	0.0089	0.0073
Moon	44213-05-12 01:26 G	17869657.43	17869657.56	17869657.74	0.0089	0.0070 *
Moon	44214-05-14 07:41 G	17870024.61	17870024.82	17870025.04	0.0089	0.0049
Earth	44214-05-14 10:19 G	17870024.74	17870024.93	17870025.17	0.0089	0.0048 *
Earth	44215-05-16 22:19 G	17870392.19	17870392.43	17870392.68	0.0089	0.0022
Moon	44215-05-17 01:55 G	17870392.34	17870392.58	17870392.84	0.0089	0.0020 *
Moon	44216-05-18 06:58 G	17870759.54	17870759.79	17870760.04	0.0089	0.0001
Earth	44216-05-18 10:05 G	17870759.67	17870759.92	17870760.18	0.0089	0.0004 *
Earth	44217-05-20 21:22 G	17871127.17	17871127.39	17871127.65	0.0089	0.0030
Moon	44217-05-21 00:43 G	17871127.29	17871127.53	17871127.78	0.0089	0.0030 *
Moon	44218-05-23 06:58 G	17871494.62	17871494.79	17871495.02	0.0089	0.0054
Earth	44218-05-23 09:07 G	17871494.70	17871494.88	17871495.11	0.0089	0.0055 *
Earth	44219-05-25 20:53 G	17871862.28	17871862.37	17871862.50	0.0089	0.0080
Moon	44219-05-25 21:36 G	17871862.30	17871862.40	17871862.53	0.0089	0.0081 *
Venus	44241-12-23 07:41 G	17880109.75	17880109.82	17880109.94	0.0090	0.0081
Venus	44242-08-05 21:07 G	17880335.26	17880335.38	17880335.54	0.0090	0.0068
Venus	44243-03-19 10:48 G	17880560.78	17880560.95	17880561.13	0.0090	0.0055
Venus	44243-10-31 00:00 G	17880786.32	17880786.50	17880786.70	0.0090	0.0043
Venus	44244-06-12 13:26 G	17881011.86	17881012.06	17881012.27	0.0090	0.0030
Venus	44245-01-24 02:38 G	17881237.40	17881237.61	17881237.84	0.0090	0.0018
Venus	44245-09-06 16:05 G	17881462.95	17881463.17	17881463.39	0.0090	0.0005
Venus	44246-04-20 05:17 G	17881688.51	17881688.72	17881688.95	0.0089	0.0009
Venus	44246-12-01 18:43 G	17881914.07	17881914.28	17881914.49	0.0089	0.0021
Venus	44247-07-15 07:41 G	17882139.63	17882139.82	17882140.03	0.0089	0.0034
Venus	44248-02-25 20:53 G	17882365.19	17882365.37	17882365.57	0.0089	0.0046
Venus	44248-10-08 09:50 G	17882590.76	17882590.91	17882591.09	0.0089	0.0059
Venus	44249-05-21 23:31 G	17882816.35	17882816.48	17882816.62	0.0089	0.0071
Venus	44250-01-02 12:14 G	17883041.96	17883042.01	17883042.11	0.0089	0.0084
Mars	44264-03-29 06:58 G	17888241.51	17888241.79	17888242.09	0.0089	0.0006
Mars	44266-02-20 22:34 G	17888935.33	17888935.44	17888935.61	0.0089	0.0078

Mercury	44273-09-23 05:17 G	17891706.69	17891706.72	17891706.75	0.0089	0.0086
Mercury	44273-12-20 06:14 G	17891794.71	17891794.76	17891794.83	0.0089	0.0079
Mercury	44274-03-18 07:41 G	17891882.75	17891882.82	17891882.90	0.0089	0.0071
Mercury	44274-06-14 08:53 G	17891970.79	17891970.87	17891970.97	0.0089	0.0064
Mercury	44274-09-10 10:05 G	17892058.83	17892058.92	17892059.03	0.0089	0.0056
Mercury	44274-12-07 11:17 G	17892146.87	17892146.97	17892147.09	0.0089	0.0049
Mercury	44275-03-05 12:43 G	17892234.92	17892235.03	17892235.15	0.0089	0.0041
Mercury	44275-06-01 13:55 G	17892322.96	17892323.08	17892323.20	0.0089	0.0034
Mercury	44275-08-28 15:22 G	17892411.01	17892411.14	17892411.26	0.0089	0.0026
Mercury	44275-11-24 16:19 G	17892499.06	17892499.18	17892499.32	0.0089	0.0019
Mercury	44276-02-20 17:46 G	17892587.11	17892587.24	17892587.37	0.0089	0.0011
Mercury	44276-05-18 18:58 G	17892675.16	17892675.29	17892675.42	0.0089	0.0004
Mercury	44276-08-14 20:24 G	17892763.21	17892763.35	17892763.48	0.0089	0.0005
Mercury	44276-11-10 21:36 G	17892851.27	17892851.40	17892851.53	0.0089	0.0012
Mercury	44277-02-06 22:48 G	17892939.32	17892939.45	17892939.58	0.0089	0.0019
Mercury	44277-05-06 00:00 G	17893027.38	17893027.50	17893027.63	0.0089	0.0027
Mercury	44277-08-02 01:12 G	17893115.44	17893115.55	17893115.68	0.0089	0.0035
Mercury	44277-10-29 02:38 G	17893203.49	17893203.61	17893203.72	0.0089	0.0042
Mercury	44278-01-25 03:36 G	17893291.55	17893291.65	17893291.77	0.0089	0.0050
Mercury	44278-04-23 04:48 G	17893379.61	17893379.70	17893379.81	0.0089	0.0058
Mercury	44278-07-20 06:14 G	17893467.68	17893467.76	17893467.85	0.0089	0.0065
Mercury	44278-10-16 07:26 G	17893555.75	17893555.81	17893555.89	0.0089	0.0072
Mercury	44279-01-12 08:53 G	17893643.82	17893643.87	17893643.93	0.0089	0.0080
Mercury	44279-04-10 09:50 G	17893731.91	17893731.91	17893731.94	0.0089	0.0088
Earth	44294-11-11 00:29 G	17899425.39	17899425.52	17899425.70	0.0088	0.0071
Moon	44294-11-11 02:38 G	17899425.48	17899425.61	17899425.74	0.0088	0.0074 *
Moon	44295-11-13 09:22 G	17899792.68	17899792.89	17899793.14	0.0088	0.0043
Earth	44295-11-13 12:43 G	17899792.81	17899793.03	17899793.25	0.0088	0.0047 *
Earth	44296-11-15 00:14 G	17900160.27	17900160.51	17900160.77	0.0088	0.0022
Moon	44296-11-15 03:36 G	17900160.42	17900160.65	17900160.91	0.0088	0.0026 *

Moon	44297-11-17 08:53 G	17900527.61	17900527.87	17900528.13	0.0088	0.0006
Earth	44297-11-17 12:14 G	17900527.76	17900528.01	17900528.28	0.0088	0.0003 *
Earth	44298-11-20 00:00 G	17900895.25	17900895.50	17900895.74	0.0088	0.0027
Moon	44298-11-20 03:22 G	17900895.39	17900895.64	17900895.90	0.0088	0.0024 *
Moon	44299-11-22 08:38 G	17901262.69	17901262.86	17901263.08	0.0088	0.0056
Earth	44299-11-22 11:02 G	17901262.77	17901262.96	17901263.19	0.0088	0.0052 *
Earth	44300-11-24 23:02 G	17901630.33	17901630.46	17901630.59	0.0088	0.0076
Moon	44300-11-25 00:14 G	17901630.40	17901630.51	17901630.69	0.0088	0.0074 *
Venus	44324-02-09 00:14 G	17910106.49	17910106.51	17910106.58	0.0088	0.0086
Venus	44324-09-21 13:12 G	17910331.95	17910332.05	17910332.18	0.0088	0.0074
Venus	44325-05-05 01:55 G	17910557.44	17910557.58	17910557.75	0.0088	0.0062
Venus	44325-12-16 14:53 G	17910782.95	17910783.12	17910783.31	0.0088	0.0050
Venus	44326-07-30 03:36 G	17911008.46	17911008.65	17911008.85	0.0088	0.0038
Venus	44327-03-12 16:05 G	17911233.97	17911234.17	17911234.40	0.0088	0.0027
Venus	44327-10-24 05:02 G	17911459.50	17911459.71	17911459.94	0.0088	0.0015
Venus	44328-06-05 18:00 G	17911685.03	17911685.25	17911685.47	0.0088	0.0003
Venus	44329-01-17 06:43 G	17911910.56	17911910.78	17911911.00	0.0088	0.0010
Venus	44329-08-30 19:12 G	17912136.10	17912136.30	17912136.53	0.0088	0.0022
Venus	44330-04-13 07:55 G	17912361.64	17912361.83	17912362.05	0.0088	0.0034
Venus	44330-11-24 20:38 G	17912587.19	17912587.36	17912587.57	0.0088	0.0046
Venus	44331-07-08 09:22 G	17912812.75	17912812.89	17912813.08	0.0088	0.0058
Venus	44332-02-18 22:48 G	17913038.32	17913038.45	17913038.58	0.0088	0.0069
Venus	44332-10-01 11:17 G	17913263.90	17913263.97	17913264.07	0.0088	0.0081
Mars	44345-12-21 11:46 G	17918092.85	17918092.99	17918093.18	0.0088	0.0076
Mars	44347-11-17 14:24 G	17918788.77	17918789.10	17918789.44	0.0088	0.0021
Saturn	44353-03-14 22:05 G	17920732.70	17920733.42	17920734.16	0.0088	0.0007
Mercury	44358-02-24 16:48 G	17922541.14	17922541.20	17922541.29	0.0089	0.0082
Mercury	44358-05-23 20:24 G	17922629.25	17922629.35	17922629.49	0.0089	0.0071
Mercury	44358-08-20 00:29 G	17922717.38	17922717.52	17922717.67	0.0089	0.0059
Mercury	44358-11-16 04:05 G	17922805.52	17922805.67	17922805.85	0.0089	0.0048



Mercury	44359-02-12 08:10 G	17922893.66	17922893.84	17922894.02	0.0089	0.0036
Mercury	44359-05-11 11:46 G	17922981.81	17922981.99	17922982.19	0.0089	0.0025
Mercury	44359-08-07 15:36 G	17923069.96	17923070.15	17923070.35	0.0089	0.0013
Mercury	44359-11-03 19:26 G	17923158.11	17923158.31	17923158.51	0.0089	0.0002
Mercury	44360-01-30 23:17 G	17923246.27	17923246.47	17923246.67	0.0089	0.0010
Mercury	44360-04-28 02:53 G	17923334.43	17923334.62	17923334.82	0.0089	0.0021
Mercury	44360-07-25 06:29 G	17923422.60	17923422.77	17923422.97	0.0089	0.0033
Mercury	44360-10-21 10:19 G	17923510.77	17923510.93	17923511.11	0.0089	0.0044
Mercury	44361-01-17 13:55 G	17923598.94	17923599.08	17923599.25	0.0089	0.0056
Mercury	44361-04-15 17:46 G	17923687.12	17923687.24	17923687.38	0.0089	0.0067
Mercury	44361-07-12 21:36 G	17923775.32	17923775.40	17923775.50	0.0089	0.0078
Moon	44377-05-12 04:48 G	17929557.70	17929557.70	17929557.74	0.0089	0.0089
Earth	44377-05-12 08:24 G	17929557.80	17929557.85	17929557.95	0.0089	0.0086
Earth	44378-05-14 19:55 G	17929925.16	17929925.33	17929925.54	0.0089	0.0061
Moon	44378-05-14 23:31 G	17929925.29	17929925.48	17929925.69	0.0089	0.0057 *
Moon	44379-05-17 04:19 G	17930292.47	17930292.68	17930292.92	0.0089	0.0039
Earth	44379-05-17 07:26 G	17930292.60	17930292.81	17930293.07	0.0089	0.0036 *
Earth	44380-05-18 19:26 G	17930660.05	17930660.31	17930660.56	0.0089	0.0010
Moon	44380-05-18 21:36 G	17930660.14	17930660.40	17930660.66	0.0089	0.0006 *
Moon	44381-05-21 05:31 G	17931027.50	17931027.73	17931027.99	0.0089	0.0013
Earth	44381-05-21 06:43 G	17931027.54	17931027.78	17931028.05	0.0089	0.0017 *
Earth	44382-05-23 18:14 G	17931395.05	17931395.26	17931395.50	0.0089	0.0042
Moon	44382-05-23 18:43 G	17931395.07	17931395.28	17931395.52	0.0089	0.0046 *
Earth	44383-05-26 06:14 G	17931762.60	17931762.76	17931762.94	0.0089	0.0067
Moon	44383-05-26 07:12 G	17931762.65	17931762.80	17931763.00	0.0089	0.0064 *
Venus	44406-03-27 18:14 G	17940104.20	17940104.26	17940104.36	0.0090	0.0084
Venus	44406-11-08 07:55 G	17940329.70	17940329.83	17940329.97	0.0090	0.0071
Venus	44407-06-21 20:53 G	17940555.23	17940555.37	17940555.56	0.0090	0.0059
Venus	44408-02-02 10:34 G	17940780.76	17940780.94	17940781.13	0.0090	0.0046
Venus	44408-09-14 23:31 G	17941006.29	17941006.48	17941006.70	0.0090	0.0034

Venus	44409-04-28 13:12 G	17941231.84	17941232.05	17941232.27	0.0090	0.0021
Venus	44409-12-10 02:38 G	17941457.39	17941457.61	17941457.83	0.0090	0.0008
Venus	44410-07-23 15:50 G	17941682.94	17941683.16	17941683.38	0.0090	0.0004
Venus	44411-03-06 05:02 G	17941908.50	17941908.71	17941908.93	0.0089	0.0017
Venus	44411-10-17 18:14 G	17942134.06	17942134.26	17942134.47	0.0089	0.0029
Venus	44412-05-30 07:41 G	17942359.63	17942359.82	17942360.02	0.0089	0.0042
Venus	44413-01-10 20:38 G	17942585.20	17942585.36	17942585.55	0.0089	0.0055
Venus	44413-08-24 09:50 G	17942810.78	17942810.91	17942811.07	0.0089	0.0067
Venus	44414-04-06 22:48 G	17943036.37	17943036.45	17943036.57	0.0089	0.0080
Mars	44427-11-13 16:34 G	17948004.95	17948005.19	17948005.48	0.0089	0.0036
Mars	44429-10-07 11:31 G	17948698.75	17948698.98	17948699.24	0.0089	0.0049
Mercury	44438-06-21 05:02 G	17951877.67	17951877.71	17951877.75	0.0089	0.0083
Mercury	44438-09-17 06:00 G	17951965.70	17951965.75	17951965.83	0.0089	0.0076
Mercury	44438-12-14 07:26 G	17952053.73	17952053.81	17952053.90	0.0089	0.0068
Mercury	44439-03-12 08:38 G	17952141.77	17952141.86	17952141.96	0.0089	0.0061
Mercury	44439-06-08 10:05 G	17952229.81	17952229.92	17952230.02	0.0089	0.0053
Mercury	44439-09-04 11:02 G	17952317.86	17952317.96	17952318.08	0.0089	0.0046
Mercury	44439-12-01 12:29 G	17952405.90	17952406.02	17952406.14	0.0089	0.0038
Mercury	44440-02-27 13:41 G	17952493.95	17952494.07	17952494.20	0.0089	0.0031
Mercury	44440-05-25 15:07 G	17952582.00	17952582.13	17952582.25	0.0089	0.0023
Mercury	44440-08-21 16:19 G	17952670.05	17952670.18	17952670.31	0.0089	0.0015
Mercury	44440-11-17 17:31 G	17952758.10	17952758.23	17952758.36	0.0089	0.0008
Mercury	44441-02-13 18:43 G	17952846.15	17952846.28	17952846.42	0.0089	0.0003
Mercury	44441-05-12 20:10 G	17952934.21	17952934.34	17952934.47	0.0089	0.0008
Mercury	44441-08-08 21:22 G	17953022.26	17953022.39	17953022.52	0.0089	0.0015
Mercury	44441-11-04 22:34 G	17953110.32	17953110.44	17953110.57	0.0089	0.0022
Mercury	44442-01-31 23:46 G	17953198.37	17953198.49	17953198.62	0.0089	0.0030
Mercury	44442-04-30 00:58 G	17953286.43	17953286.54	17953286.66	0.0089	0.0038
Mercury	44442-07-27 02:24 G	17953374.49	17953374.60	17953374.71	0.0089	0.0045
Mercury	44442-10-23 03:22 G	17953462.55	17953462.64	17953462.76	0.0089	0.0053

Mercury	44443-01-19 04:48 G	17953550.61	17953550.70	17953550.80	0.0089	0.0060
Mercury	44443-04-17 06:00 G	17953638.67	17953638.75	17953638.84	0.0089	0.0068
Mercury	44443-07-14 06:58 G	17953726.74	17953726.79	17953726.88	0.0089	0.0076
Mercury	44443-10-10 08:24 G	17953814.82	17953814.85	17953814.90	0.0089	0.0083
Moon	44458-11-11 05:17 G	17959325.66	17959325.72	17959325.84	0.0088	0.0083
Earth	44458-11-11 08:38 G	17959325.81	17959325.86	17959325.96	0.0088	0.0085 *
Earth	44459-11-13 20:53 G	17959693.19	17959693.37	17959693.57	0.0088	0.0060
Moon	44459-11-14 00:14 G	17959693.35	17959693.51	17959693.71	0.0088	0.0062 *
Moon	44460-11-15 05:17 G	17960060.49	17960060.72	17960060.97	0.0088	0.0033
Earth	44460-11-15 08:38 G	17960060.64	17960060.86	17960061.12	0.0088	0.0035 *
Earth	44461-11-17 20:38 G	17960428.11	17960428.36	17960428.63	0.0088	0.0010
Moon	44461-11-17 23:31 G	17960428.23	17960428.48	17960428.76	0.0088	0.0013 *
Moon	44462-11-20 06:00 G	17960795.52	17960795.75	17960796.01	0.0088	0.0018
Earth	44462-11-20 08:24 G	17960795.61	17960795.85	17960796.12	0.0088	0.0015 *
Earth	44463-11-22 19:41 G	17961163.11	17961163.32	17961163.57	0.0088	0.0040
Moon	44463-11-22 20:53 G	17961163.13	17961163.37	17961163.62	0.0088	0.0037 *
Earth	44464-11-24 07:26 G	17961530.65	17961530.81	17961531.01	0.0088	0.0064
Moon	44464-11-24 07:26 G	17961530.68	17961530.81	17961531.00	0.0088	0.0067 *
Moon	44465-11-26 17:31 G	17961898.20	17961898.23	17961898.32	0.0088	0.0086
Venus	44488-12-23 23:31 G	17970326.39	17970326.48	17970326.60	0.0088	0.0077
Venus	44489-08-06 12:29 G	17970551.88	17970552.02	17970552.17	0.0088	0.0065
Venus	44490-03-20 00:43 G	17970777.38	17970777.53	17970777.73	0.0088	0.0054
Venus	44490-10-31 13:55 G	17971002.90	17971003.08	17971003.29	0.0088	0.0042
Venus	44491-06-14 02:38 G	17971228.41	17971228.61	17971228.83	0.0088	0.0030
Venus	44492-01-25 15:36 G	17971453.93	17971454.15	17971454.37	0.0088	0.0018
Venus	44492-09-07 04:19 G	17971679.46	17971679.68	17971679.90	0.0088	0.0006
Venus	44493-04-20 17:02 G	17971904.99	17971905.21	17971905.43	0.0088	0.0006
Venus	44493-12-02 05:46 G	17972130.53	17972130.74	17972130.96	0.0088	0.0018
Venus	44494-07-15 18:14 G	17972356.07	17972356.26	17972356.48	0.0088	0.0030
Venus	44495-02-26 06:58 G	17972581.61	17972581.79	17972582.00	0.0088	0.0042

Venus	44495-10-09 20:10 G	17972807.17	17972807.34	17972807.52	0.0088	0.0053
Venus	44496-05-22 08:53 G	17973032.73	17973032.87	17973033.02	0.0088	0.0065
Venus	44497-01-02 21:36 G	17973258.31	17973258.40	17973258.51	0.0088	0.0077
Mars	44511-07-02 03:22 G	17978550.31	17978550.64	17978550.99	0.0088	0.0014
Mars	44513-05-28 06:00 G	17979246.66	17979246.75	17979246.88	0.0088	0.0084
Mercury	44522-11-22 14:38 G	17982712.04	17982712.11	17982712.22	0.0089	0.0079
Mercury	44523-02-18 18:43 G	17982800.16	17982800.28	17982800.41	0.0089	0.0067
Mercury	44523-05-17 22:19 G	17982888.29	17982888.43	17982888.60	0.0089	0.0056
Mercury	44523-08-14 02:10 G	17982976.43	17982976.59	17982976.77	0.0089	0.0044
Mercury	44523-11-10 06:00 G	17983064.57	17983064.75	17983064.94	0.0089	0.0033
Mercury	44524-02-06 09:50 G	17983152.72	17983152.91	17983153.11	0.0089	0.0021
Mercury	44524-05-04 13:41 G	17983240.87	17983241.07	17983241.27	0.0089	0.0010
Mercury	44524-07-31 17:31 G	17983329.03	17983329.23	17983329.43	0.0089	0.0002
Mercury	44524-10-27 21:07 G	17983417.19	17983417.38	17983417.58	0.0089	0.0013
Mercury	44525-01-24 00:58 G	17983505.35	17983505.54	17983505.73	0.0089	0.0025
Mercury	44525-04-22 04:48 G	17983593.52	17983593.70	17983593.88	0.0089	0.0036
Mercury	44525-07-19 08:10 G	17983681.69	17983681.84	17983682.02	0.0089	0.0048
Mercury	44525-10-15 12:14 G	17983769.87	17983770.01	17983770.16	0.0089	0.0059
Mercury	44526-01-11 15:36 G	17983858.05	17983858.15	17983858.29	0.0089	0.0071
Mercury	44526-04-09 19:26 G	17983946.25	17983946.31	17983946.40	0.0089	0.0082
Moon	44542-05-15 02:53 G	17989825.48	17989825.62	17989825.78	0.0089	0.0071
Earth	44542-05-15 05:31 G	17989825.60	17989825.73	17989825.88	0.0089	0.0074 *
Earth	44543-05-17 16:48 G	17990193.00	17990193.20	17990193.43	0.0089	0.0049
Moon	44543-05-17 19:12 G	17990193.09	17990193.30	17990193.52	0.0089	0.0051 *
Moon	44544-05-19 03:50 G	17990560.43	17990560.66	17990560.91	0.0089	0.0020
Earth	44544-05-19 04:19 G	17990560.45	17990560.68	17990560.94	0.0089	0.0024 *
Moon	44545-05-21 15:22 G	17990927.87	17990928.14	17990928.40	0.0089	0.0001
Earth	44545-05-21 16:05 G	17990927.91	17990928.17	17990928.43	0.0089	0.0003 *
Earth	44546-05-24 03:22 G	17991295.41	17991295.64	17991295.90	0.0089	0.0028
Moon	44546-05-24 05:02 G	17991295.48	17991295.71	17991295.95	0.0089	0.0031 *

Moon	44547-05-26 12:00 G	17991662.80	17991663.00	17991663.23	0.0089	0.0051
Earth	44547-05-26 15:07 G	17991662.94	17991663.13	17991663.35	0.0089	0.0054 *
Earth	44548-05-28 02:10 G	17992030.51	17992030.59	17992030.74	0.0089	0.0080
Moon	44548-05-28 06:14 G	17992030.66	17992030.76	17992030.86	0.0089	0.0082 *
Venus	44570-06-30 04:34 G	18000098.65	18000098.69	18000098.76	0.0090	0.0087
Venus	44571-02-10 17:46 G	18000324.14	18000324.24	18000324.38	0.0090	0.0075
Venus	44571-09-24 07:12 G	18000549.65	18000549.80	18000549.97	0.0090	0.0062
Venus	44572-05-06 20:38 G	18000775.19	18000775.36	18000775.55	0.0090	0.0050
Venus	44572-12-18 10:05 G	18001000.73	18001000.92	18001001.12	0.0090	0.0037
Venus	44573-07-31 23:17 G	18001226.27	18001226.47	18001226.69	0.0090	0.0025
Venus	44574-03-14 12:43 G	18001451.81	18001452.03	18001452.25	0.0090	0.0012
Venus	44574-10-26 01:55 G	18001677.37	18001677.58	18001677.80	0.0089	0.0002
Venus	44575-06-08 15:22 G	18001902.93	18001903.14	18001903.36	0.0089	0.0013
Venus	44576-01-20 04:34 G	18002128.49	18002128.69	18002128.91	0.0089	0.0026
Venus	44576-09-01 18:00 G	18002354.05	18002354.25	18002354.45	0.0089	0.0038
Venus	44577-04-15 06:58 G	18002579.62	18002579.79	18002579.98	0.0089	0.0051
Venus	44577-11-26 20:24 G	18002805.20	18002805.35	18002805.51	0.0089	0.0063
Venus	44578-07-10 09:07 G	18003030.79	18003030.88	18003031.03	0.0089	0.0076
Venus	44579-02-20 22:19 G	18003256.41	18003256.43	18003256.50	0.0089	0.0088
Mars	44591-06-30 03:07 G	18007768.44	18007768.63	18007768.83	0.0089	0.0066
Mars	44593-05-23 21:22 G	18008462.12	18008462.39	18008462.69	0.0089	0.0020
Mercury	44602-12-22 03:22 G	18011960.63	18011960.64	18011960.66	0.0089	0.0088
Mercury	44603-03-20 04:19 G	18012048.64	18012048.68	18012048.75	0.0089	0.0081
Mercury	44603-06-16 05:46 G	18012136.68	18012136.74	18012136.82	0.0089	0.0073
Mercury	44603-09-12 06:58 G	18012224.71	18012224.79	18012224.89	0.0089	0.0066
Mercury	44603-12-09 08:24 G	18012312.75	18012312.85	18012312.95	0.0089	0.0058
Mercury	44604-03-06 09:36 G	18012400.80	18012400.90	18012401.01	0.0089	0.0050
Mercury	44604-06-02 10:48 G	18012488.84	18012488.95	18012489.07	0.0089	0.0043
Mercury	44604-08-29 12:00 G	18012576.89	18012577.00	18012577.13	0.0089	0.0036
Mercury	44604-11-25 13:26 G	18012664.94	18012665.06	18012665.19	0.0089	0.0028

Mercury	44605-02-21 14:38 G	18012752.99	18012753.11	18012753.24	0.0089	0.0020
Mercury	44605-05-20 16:05 G	18012841.04	18012841.17	18012841.30	0.0089	0.0013
Mercury	44605-08-16 17:17 G	18012929.09	18012929.22	18012929.35	0.0089	0.0005
Mercury	44605-11-12 18:29 G	18013017.14	18013017.27	18013017.40	0.0089	0.0003
Mercury	44606-02-08 19:41 G	18013105.19	18013105.32	18013105.45	0.0089	0.0010
Mercury	44606-05-07 20:53 G	18013193.25	18013193.37	18013193.50	0.0089	0.0018
Mercury	44606-08-03 22:19 G	18013281.30	18013281.43	18013281.55	0.0089	0.0025
Mercury	44606-10-30 23:31 G	18013369.36	18013369.48	18013369.60	0.0089	0.0033
Mercury	44607-01-27 00:29 G	18013457.42	18013457.52	18013457.65	0.0089	0.0041
Mercury	44607-04-25 01:55 G	18013545.48	18013545.58	18013545.70	0.0089	0.0048
Mercury	44607-07-22 03:07 G	18013633.54	18013633.63	18013633.74	0.0089	0.0055
Mercury	44607-10-18 04:19 G	18013721.60	18013721.68	18013721.78	0.0089	0.0063
Mercury	44608-01-14 05:31 G	18013809.66	18013809.73	18013809.82	0.0089	0.0071
Mercury	44608-04-11 06:58 G	18013897.73	18013897.79	18013897.86	0.0089	0.0078
Mercury	44608-07-08 07:55 G	18013985.82	18013985.83	18013985.88	0.0089	0.0086
Moon	44623-11-15 00:58 G	18019593.44	18019593.54	18019593.68	0.0088	0.0077
Earth	44623-11-15 04:05 G	18019593.55	18019593.67	18019593.84	0.0088	0.0073 *
Earth	44624-11-16 16:19 G	18019960.97	18019961.18	18019961.41	0.0088	0.0048
Moon	44624-11-16 18:29 G	18019961.06	18019961.27	18019961.53	0.0088	0.0044 *
Moon	44625-11-19 03:07 G	18020328.40	18020328.63	18020328.87	0.0088	0.0027
Earth	44625-11-19 04:19 G	18020328.43	18020328.68	18020328.94	0.0088	0.0023 *
Earth	44626-11-21 16:05 G	18020695.91	18020696.17	18020696.43	0.0088	0.0002
Moon	44626-11-21 16:34 G	18020695.92	18020696.19	18020696.46	0.0088	0.0006 *
Earth	44627-11-24 03:50 G	18021063.41	18021063.66	18021063.91	0.0088	0.0026
Moon	44627-11-24 05:02 G	18021063.47	18021063.71	18021063.96	0.0088	0.0022 *
Moon	44628-11-25 12:58 G	18021430.85	18021431.04	18021431.27	0.0088	0.0055
Earth	44628-11-25 15:22 G	18021430.95	18021431.14	18021431.37	0.0088	0.0051 *
Earth	44629-11-28 02:38 G	18021798.51	18021798.61	18021798.77	0.0088	0.0076
Moon	44629-11-28 05:31 G	18021798.61	18021798.73	18021798.90	0.0088	0.0072 *
Venus	44653-03-29 09:36 G	18030320.82	18030320.90	18030321.00	0.0088	0.0080

Venus	44653-11-09 22:05 G	18030546.31	18030546.42	18030546.59	0.0088	0.0069
Venus	44654-06-23 11:02 G	18030771.81	18030771.96	18030772.15	0.0088	0.0057
Venus	44655-02-04 00:00 G	18030997.32	18030997.50	18030997.70	0.0088	0.0045
Venus	44655-09-17 12:58 G	18031222.83	18031223.04	18031223.24	0.0088	0.0033
Venus	44656-04-30 01:26 G	18031448.35	18031448.56	18031448.78	0.0088	0.0022
Venus	44656-12-11 14:24 G	18031673.88	18031674.10	18031674.32	0.0088	0.0010
Venus	44657-07-25 03:07 G	18031899.41	18031899.63	18031899.85	0.0088	0.0002
Venus	44658-03-07 15:36 G	18032124.94	18032125.15	18032125.38	0.0088	0.0014
Venus	44658-10-19 04:19 G	18032350.48	18032350.68	18032350.90	0.0088	0.0026
Venus	44659-06-01 17:17 G	18032576.02	18032576.22	18032576.42	0.0088	0.0037
Venus	44660-01-13 05:46 G	18032801.57	18032801.74	18032801.93	0.0088	0.0049
Venus	44660-08-25 18:14 G	18033027.12	18033027.26	18033027.44	0.0088	0.0061
Venus	44661-04-08 06:58 G	18033252.69	18033252.79	18033252.94	0.0088	0.0073
Venus	44661-11-19 20:10 G	18033478.29	18033478.34	18033478.41	0.0088	0.0084
Mars	44675-02-13 15:36 G	18038311.88	18038312.15	18038312.44	0.0088	0.0050
Mars	44677-01-09 16:19 G	18039007.93	18039008.18	18039008.50	0.0088	0.0049
Mercury	44687-05-24 08:38 G	18042794.84	18042794.86	18042794.92	0.0089	0.0087
Mercury	44687-08-20 12:14 G	18042882.93	18042883.01	18042883.14	0.0089	0.0076
Mercury	44687-11-16 16:19 G	18042971.06	18042971.18	18042971.33	0.0089	0.0064
Mercury	44688-02-12 19:55 G	18043059.19	18043059.33	18043059.51	0.0089	0.0053
Mercury	44688-05-11 00:00 G	18043147.33	18043147.50	18043147.68	0.0089	0.0041
Mercury	44688-08-07 03:50 G	18043235.48	18043235.66	18043235.85	0.0089	0.0030
Mercury	44688-11-03 07:41 G	18043323.63	18043323.82	18043324.02	0.0089	0.0018
Mercury	44689-01-30 11:31 G	18043411.78	18043411.98	18043412.18	0.0089	0.0007
Mercury	44689-04-28 15:22 G	18043499.94	18043500.14	18043500.34	0.0089	0.0005
Mercury	44689-07-25 18:58 G	18043588.10	18043588.29	18043588.49	0.0089	0.0017
Mercury	44689-10-21 22:48 G	18043676.26	18043676.45	18043676.64	0.0089	0.0028
Mercury	44690-01-18 02:10 G	18043764.43	18043764.59	18043764.79	0.0089	0.0040
Mercury	44690-04-16 06:00 G	18043852.60	18043852.75	18043852.93	0.0089	0.0051
Mercury	44690-07-13 10:05 G	18043940.78	18043940.92	18043941.06	0.0089	0.0062

Mercury	44690-10-09 13:26 G	18044028.97	18044029.06	18044029.19	0.0089	0.0074
Mercury	44691-01-05 17:17 G	18044117.18	18044117.22	18044117.29	0.0089	0.0085
Earth	44706-05-16 12:58 G	18049726.03	18049726.04	18049726.11	0.0089	0.0088
Moon	44707-05-19 00:29 G	18050093.36	18050093.52	18050093.73	0.0089	0.0061
Earth	44707-05-19 00:58 G	18050093.37	18050093.54	18050093.73	0.0089	0.0063 *
Moon	44708-05-20 11:17 G	18050460.73	18050460.97	18050461.20	0.0089	0.0040
Earth	44708-05-20 12:14 G	18050460.79	18050461.01	18050461.26	0.0089	0.0037 *
Earth	44709-05-23 00:00 G	18050828.25	18050828.50	18050828.76	0.0089	0.0012
Moon	44709-05-23 02:38 G	18050828.37	18050828.61	18050828.86	0.0089	0.0009 *
Moon	44710-05-25 08:38 G	18051195.61	18051195.86	18051196.12	0.0089	0.0011
Earth	44710-05-25 11:31 G	18051195.74	18051195.98	18051196.24	0.0089	0.0015 *
Earth	44711-05-27 23:02 G	18051563.24	18051563.46	18051563.70	0.0089	0.0040
Moon	44711-05-28 02:38 G	18051563.40	18051563.61	18051563.84	0.0089	0.0043 *
Moon	44712-05-29 07:26 G	18051930.64	18051930.81	18051931.00	0.0089	0.0063
Earth	44712-05-29 10:34 G	18051930.78	18051930.94	18051931.13	0.0089	0.0066 *
Venus	44735-05-17 03:36 G	18060318.56	18060318.65	18060318.77	0.0090	0.0078
Venus	44735-12-28 16:48 G	18060544.07	18060544.20	18060544.36	0.0090	0.0066
Venus	44736-08-10 06:00 G	18060769.59	18060769.75	18060769.94	0.0090	0.0054
Venus	44737-03-23 19:26 G	18060995.12	18060995.31	18060995.51	0.0090	0.0041
Venus	44737-11-04 08:38 G	18061220.66	18061220.86	18061221.08	0.0090	0.0029
Venus	44738-06-17 22:05 G	18061446.21	18061446.42	18061446.64	0.0090	0.0016
Venus	44739-01-29 11:31 G	18061671.76	18061671.98	18061672.20	0.0090	0.0004
Venus	44739-09-12 00:43 G	18061897.32	18061897.53	18061897.75	0.0090	0.0009
Venus	44740-04-24 13:55 G	18062122.88	18062123.08	18062123.30	0.0089	0.0021
Venus	44740-12-06 03:07 G	18062348.44	18062348.63	18062348.85	0.0089	0.0034
Venus	44741-07-19 16:34 G	18062574.01	18062574.19	18062574.39	0.0089	0.0046
Venus	44742-03-02 05:31 G	18062799.58	18062799.73	18062799.92	0.0089	0.0059
Venus	44742-10-13 18:43 G	18063025.17	18063025.28	18063025.44	0.0089	0.0071
Venus	44743-05-27 08:24 G	18063250.78	18063250.85	18063250.94	0.0089	0.0083
Mars	44757-01-08 06:58 G	18068225.51	18068225.79	18068226.09	0.0089	0.0011



Mars	44758-12-03 00:43 G	18068919.39	18068919.53	18068919.70	0.0089	0.0074
Mercury	44767-09-19 02:53 G	18072131.60	18072131.62	18072131.65	0.0089	0.0086
Mercury	44767-12-16 03:50 G	18072219.62	18072219.66	18072219.74	0.0089	0.0079
Mercury	44768-03-13 05:17 G	18072307.65	18072307.72	18072307.81	0.0089	0.0071
Mercury	44768-06-09 06:29 G	18072395.69	18072395.77	18072395.87	0.0089	0.0064
Mercury	44768-09-05 07:55 G	18072483.73	18072483.83	18072483.93	0.0089	0.0056
Mercury	44768-12-02 09:07 G	18072571.78	18072571.88	18072571.99	0.0089	0.0048
Mercury	44769-02-28 10:19 G	18072659.82	18072659.93	18072660.05	0.0089	0.0041
Mercury	44769-05-27 11:46 G	18072747.87	18072747.99	18072748.11	0.0089	0.0033
Mercury	44769-08-23 12:58 G	18072835.92	18072836.04	18072836.17	0.0089	0.0026
Mercury	44769-11-19 14:10 G	18072923.97	18072924.09	18072924.22	0.0089	0.0018
Mercury	44770-02-15 15:36 G	18073012.02	18073012.15	18073012.28	0.0089	0.0011
Mercury	44770-05-14 16:48 G	18073100.07	18073100.20	18073100.33	0.0089	0.0003
Mercury	44770-08-10 18:00 G	18073188.12	18073188.25	18073188.38	0.0089	0.0005
Mercury	44770-11-06 19:12 G	18073276.18	18073276.30	18073276.43	0.0089	0.0013
Mercury	44771-02-02 20:38 G	18073364.23	18073364.36	18073364.48	0.0089	0.0020
Mercury	44771-05-01 21:36 G	18073452.29	18073452.40	18073452.53	0.0089	0.0028
Mercury	44771-07-28 23:02 G	18073540.34	18073540.46	18073540.58	0.0089	0.0035
Mercury	44771-10-25 00:14 G	18073628.40	18073628.51	18073628.63	0.0089	0.0042
Mercury	44772-01-21 01:26 G	18073716.46	18073716.56	18073716.67	0.0089	0.0050
Mercury	44772-04-18 02:38 G	18073804.52	18073804.61	18073804.72	0.0089	0.0058
Mercury	44772-07-15 04:05 G	18073892.58	18073892.67	18073892.76	0.0089	0.0065
Mercury	44772-10-11 05:02 G	18073980.65	18073980.71	18073980.80	0.0089	0.0073
Mercury	44773-01-07 06:29 G	18074068.72	18074068.77	18074068.83	0.0089	0.0080
Mercury	44773-04-05 07:41 G	18074156.81	18074156.82	18074156.84	0.0089	0.0088
Earth	44787-11-15 11:17 G	18079493.96	18079493.97	18079494.05	0.0088	0.0087
Moon	44787-11-15 14:10 G	18079494.03	18079494.09	18079494.15	0.0088	0.0086 *
Moon	44788-11-16 23:02 G	18079861.29	18079861.46	18079861.65	0.0088	0.0063
Earth	44788-11-16 23:31 G	18079861.32	18079861.48	18079861.69	0.0088	0.0062 *
Moon	44789-11-19 10:19 G	18080228.70	18080228.93	18080229.19	0.0088	0.0037

Earth	44789-11-19 11:17 G	18080228.75	18080228.97	18080229.22	0.0088	0.0037	*
Earth	44790-11-21 23:17 G	18080596.22	18080596.47	18080596.74	0.0088	0.0012	
Moon	44790-11-22 00:43 G	18080596.29	18080596.53	18080596.79	0.0088	0.0013	*
Moon	44791-11-24 08:10 G	18080963.59	18080963.84	18080964.12	0.0088	0.0014	
Earth	44791-11-24 11:17 G	18080963.72	18080963.97	18080964.23	0.0088	0.0013	*
Earth	44792-11-25 22:48 G	18081331.23	18081331.45	18081331.70	0.0088	0.0038	
Moon	44792-11-26 02:10 G	18081331.37	18081331.59	18081331.84	0.0088	0.0038	*
Moon	44793-11-28 06:58 G	18081698.63	18081698.79	18081698.98	0.0088	0.0064	
Earth	44793-11-28 10:19 G	18081698.77	18081698.93	18081699.13	0.0088	0.0063	*
Earth	44794-11-30 21:50 G	18082066.41	18082066.41	18082066.45	0.0088	0.0088	
Moon	44794-12-01 01:26 G	18082066.53	18082066.56	18082066.64	0.0088	0.0086	
Venus	44817-07-01 18:43 G	18090315.24	18090315.28	18090315.37	0.0088	0.0084	
Venus	44818-02-12 07:41 G	18090540.71	18090540.82	18090540.96	0.0088	0.0072	
Venus	44818-09-25 20:10 G	18090766.21	18090766.34	18090766.53	0.0088	0.0061	
Venus	44819-05-09 09:07 G	18090991.72	18090991.88	18090992.08	0.0088	0.0049	
Venus	44819-12-20 22:19 G	18091217.23	18091217.43	18091217.63	0.0088	0.0037	
Venus	44820-08-02 10:48 G	18091442.75	18091442.95	18091443.17	0.0088	0.0026	
Venus	44821-03-15 23:46 G	18091668.28	18091668.49	18091668.71	0.0088	0.0014	
Venus	44821-10-27 12:43 G	18091893.81	18091894.03	18091894.25	0.0088	0.0002	
Venus	44822-06-10 01:26 G	18092119.34	18092119.56	18092119.78	0.0088	0.0010	
Venus	44823-01-21 13:55 G	18092344.88	18092345.08	18092345.30	0.0088	0.0022	
Venus	44823-09-04 02:38 G	18092570.41	18092570.61	18092570.82	0.0088	0.0033	
Venus	44824-04-16 15:07 G	18092795.96	18092796.13	18092796.34	0.0088	0.0045	
Venus	44824-11-28 03:50 G	18093021.52	18093021.66	18093021.85	0.0088	0.0057	
Venus	44825-07-11 16:48 G	18093247.08	18093247.20	18093247.35	0.0088	0.0068	
Venus	44826-02-22 05:17 G	18093472.65	18093472.72	18093472.84	0.0088	0.0080	
Mars	44838-09-28 03:07 G	18098073.60	18098073.63	18098073.74	0.0088	0.0087	
Mars	44840-08-24 02:24 G	18098769.28	18098769.60	18098769.95	0.0088	0.0012	
Mercury	44852-02-19 06:00 G	18102965.72	18102965.75	18102965.83	0.0089	0.0085	
Mercury	44852-05-17 09:50 G	18103053.82	18103053.91	18103054.04	0.0089	0.0074	

Mercury	44852-08-13 13:41 G	18103141.95	18103142.07	18103142.23	0.0089	0.0062
Mercury	44852-11-09 17:31 G	18103230.08	18103230.23	18103230.41	0.0089	0.0051
Mercury	44853-02-05 21:22 G	18103318.22	18103318.39	18103318.58	0.0089	0.0039
Mercury	44853-05-05 01:12 G	18103406.37	18103406.55	18103406.75	0.0089	0.0028
Mercury	44853-08-01 05:02 G	18103494.52	18103494.71	18103494.91	0.0089	0.0016
Mercury	44853-10-28 08:53 G	18103582.67	18103582.87	18103583.07	0.0089	0.0005
Mercury	44854-01-24 12:43 G	18103670.83	18103671.03	18103671.23	0.0089	0.0007
Mercury	44854-04-22 16:19 G	18103758.99	18103759.18	18103759.38	0.0089	0.0019
Mercury	44854-07-19 20:10 G	18103847.16	18103847.34	18103847.53	0.0089	0.0030
Mercury	44854-10-15 23:46 G	18103935.33	18103935.49	18103935.68	0.0089	0.0042
Mercury	44855-01-12 03:36 G	18104023.50	18104023.65	18104023.82	0.0089	0.0053
Mercury	44855-04-10 06:58 G	18104111.68	18104111.79	18104111.95	0.0089	0.0065
Mercury	44855-07-07 11:02 G	18104199.87	18104199.96	18104200.07	0.0089	0.0076
Mercury	44855-10-03 14:53 G	18104288.10	18104288.12	18104288.16	0.0089	0.0087
Jupiter	44869-03-17 21:22 G	18109201.89	18109202.39	18109202.92	0.0089	0.0024
Moon	44871-05-18 05:46 G	18109993.62	18109993.74	18109993.91	0.0089	0.0074
Earth	44871-05-18 07:55 G	18109993.72	18109993.83	18109993.98	0.0089	0.0077 *
Earth	44872-05-19 19:41 G	18110361.12	18110361.32	18110361.54	0.0089	0.0052
Moon	44872-05-19 22:34 G	18110361.25	18110361.44	18110361.64	0.0089	0.0056 *
Moon	44873-05-22 03:36 G	18110728.41	18110728.65	18110728.91	0.0089	0.0022
Earth	44873-05-22 07:12 G	18110728.57	18110728.80	18110729.05	0.0089	0.0026 *
Earth	44874-05-24 18:58 G	18111096.03	18111096.29	18111096.54	0.0089	0.0002
Moon	44874-05-24 22:19 G	18111096.17	18111096.43	18111096.68	0.0089	0.0004 *
Moon	44875-05-27 02:53 G	18111463.39	18111463.62	18111463.87	0.0089	0.0030
Earth	44875-05-27 06:14 G	18111463.52	18111463.76	18111464.01	0.0089	0.0026 *
Earth	44876-05-28 17:31 G	18111831.04	18111831.23	18111831.45	0.0089	0.0052
Moon	44876-05-28 19:41 G	18111831.12	18111831.32	18111831.57	0.0089	0.0048 *
Moon	44877-05-31 03:36 G	18112198.57	18112198.65	18112198.78	0.0089	0.0081
Earth	44877-05-31 05:31 G	18112198.60	18112198.73	18112198.86	0.0089	0.0077 *
Venus	44899-08-18 12:43 G	18120312.96	18120313.03	18120313.14	0.0090	0.0082

Venus	44900-04-01 01:55 G	18120538.47	18120538.58	18120538.74	0.0090	0.0070
Venus	44900-11-12 15:50 G	18120763.99	18120764.16	18120764.33	0.0090	0.0057
Venus	44901-06-26 04:48 G	18120989.52	18120989.70	18120989.90	0.0090	0.0045
Venus	44902-02-06 18:00 G	18121215.06	18121215.25	18121215.47	0.0090	0.0033
Venus	44902-09-20 07:12 G	18121440.60	18121440.80	18121441.03	0.0090	0.0021
Venus	44903-05-03 20:53 G	18121666.15	18121666.37	18121666.59	0.0090	0.0008
Venus	44903-12-15 10:05 G	18121891.70	18121891.92	18121892.14	0.0090	0.0005
Venus	44904-07-27 23:17 G	18122117.26	18122117.47	18122117.69	0.0090	0.0017
Venus	44905-03-10 12:29 G	18122342.82	18122343.02	18122343.23	0.0090	0.0029
Venus	44905-10-22 01:26 G	18122568.38	18122568.56	18122568.77	0.0089	0.0042
Venus	44906-06-04 14:53 G	18122793.96	18122794.12	18122794.31	0.0089	0.0054
Venus	44907-01-16 04:19 G	18123019.54	18123019.68	18123019.84	0.0089	0.0066
Venus	44907-08-29 17:31 G	18123245.14	18123245.23	18123245.35	0.0089	0.0078
Mars	44920-08-24 12:14 G	18127988.78	18127989.01	18127989.29	0.0089	0.0044
Mars	44922-07-19 09:22 G	18128682.66	18128682.89	18128683.17	0.0089	0.0043
Mercury	44932-06-16 02:24 G	18132302.56	18132302.60	18132302.64	0.0089	0.0084
Mercury	44932-09-12 03:22 G	18132390.59	18132390.64	18132390.72	0.0089	0.0077
Mercury	44932-12-09 04:48 G	18132478.63	18132478.70	18132478.79	0.0089	0.0069
Mercury	44933-03-07 06:00 G	18132566.67	18132566.75	18132566.85	0.0089	0.0062
Mercury	44933-06-03 07:26 G	18132654.71	18132654.81	18132654.92	0.0089	0.0054
Mercury	44933-08-30 08:38 G	18132742.75	18132742.86	18132742.98	0.0089	0.0046
Mercury	44933-11-26 09:50 G	18132830.80	18132830.91	18132831.03	0.0089	0.0039
Mercury	44934-02-22 11:02 G	18132918.85	18132918.96	18132919.09	0.0089	0.0032
Mercury	44934-05-21 12:29 G	18133006.90	18133007.02	18133007.15	0.0089	0.0024
Mercury	44934-08-17 13:41 G	18133094.95	18133095.07	18133095.20	0.0089	0.0016
Mercury	44934-11-13 15:07 G	18133183.00	18133183.13	18133183.26	0.0089	0.0009
Mercury	44935-02-09 16:19 G	18133271.05	18133271.18	18133271.31	0.0089	0.0001
Mercury	44935-05-08 17:31 G	18133359.10	18133359.23	18133359.36	0.0089	0.0007
Mercury	44935-08-04 18:43 G	18133447.16	18133447.28	18133447.41	0.0089	0.0014
Mercury	44935-10-31 20:10 G	18133535.21	18133535.34	18133535.46	0.0089	0.0022

Mercury	44936-01-27 21:07 G	18133623.27	18133623.38	18133623.51	0.0089	0.0030
Mercury	44936-04-24 22:34 G	18133711.32	18133711.44	18133711.56	0.0089	0.0037
Mercury	44936-07-21 23:46 G	18133799.38	18133799.49	18133799.61	0.0089	0.0044
Mercury	44936-10-18 00:58 G	18133887.44	18133887.54	18133887.65	0.0089	0.0052
Mercury	44937-01-14 02:10 G	18133975.50	18133975.59	18133975.69	0.0089	0.0060
Mercury	44937-04-12 03:36 G	18134063.57	18134063.65	18134063.73	0.0089	0.0067
Mercury	44937-07-09 04:34 G	18134151.63	18134151.69	18134151.77	0.0089	0.0075
Mercury	44937-10-05 05:46 G	18134239.71	18134239.74	18134239.80	0.0089	0.0083
Moon	44952-11-17 04:48 G	18139761.61	18139761.70	18139761.83	0.0088	0.0080
Earth	44952-11-17 05:46 G	18139761.64	18139761.74	18139761.90	0.0088	0.0077 *
Earth	44953-11-19 17:46 G	18140129.04	18140129.24	18140129.47	0.0088	0.0051
Moon	44953-11-19 20:24 G	18140129.15	18140129.35	18140129.58	0.0088	0.0047 *
Moon	44954-11-22 02:38 G	18140496.37	18140496.61	18140496.86	0.0088	0.0030
Earth	44954-11-22 05:31 G	18140496.50	18140496.73	18140496.99	0.0088	0.0026 *
Earth	44955-11-24 17:31 G	18140863.97	18140864.23	18140864.49	0.0088	0.0001
Moon	44955-11-24 21:07 G	18140864.13	18140864.38	18140864.64	0.0088	0.0004 *
Moon	44956-11-26 01:41 G	18141231.33	18141231.57	18141231.83	0.0088	0.0020
Earth	44956-11-26 05:17 G	18141231.47	18141231.72	18141231.97	0.0088	0.0024 *
Earth	44957-11-28 16:34 G	18141598.99	18141599.19	18141599.42	0.0088	0.0049
Moon	44957-11-28 19:55 G	18141599.12	18141599.33	18141599.54	0.0088	0.0053 *
Moon	44958-12-01 01:55 G	18141966.45	18141966.58	18141966.75	0.0088	0.0070
Earth	44958-12-01 04:19 G	18141966.56	18141966.68	18141966.84	0.0088	0.0074 *
Venus	44981-10-04 04:05 G	18150309.66	18150309.67	18150309.70	0.0088	0.0087
Venus	44982-05-17 16:34 G	18150535.10	18150535.19	18150535.32	0.0088	0.0076
Venus	44982-12-29 05:31 G	18150760.59	18150760.73	18150760.89	0.0088	0.0064
Venus	44983-08-11 18:00 G	18150986.09	18150986.25	18150986.45	0.0088	0.0053
Venus	44984-03-24 06:58 G	18151211.61	18151211.79	18151212.00	0.0088	0.0041
Venus	44984-11-04 19:41 G	18151437.13	18151437.32	18151437.55	0.0088	0.0030
Venus	44985-06-18 08:38 G	18151662.65	18151662.86	18151663.09	0.0088	0.0018
Venus	44986-01-29 21:36 G	18151888.18	18151888.40	18151888.62	0.0088	0.0006

Venus	44986-09-12 10:19 G	18152113.71	18152113.93	18152114.15	0.0088	0.0006
Venus	44987-04-25 23:02 G	18152339.24	18152339.46	18152339.68	0.0088	0.0017
Venus	44987-12-07 11:31 G	18152564.79	18152564.98	18152565.20	0.0088	0.0029
Venus	44988-07-20 00:14 G	18152790.33	18152790.51	18152790.72	0.0088	0.0041
Venus	44989-03-02 12:58 G	18153015.88	18153016.04	18153016.23	0.0088	0.0052
Venus	44989-10-14 01:26 G	18153241.43	18153241.56	18153241.74	0.0088	0.0064
Venus	44990-05-27 14:24 G	18153467.00	18153467.10	18153467.23	0.0088	0.0075
Venus	44991-01-08 02:53 G	18153692.61	18153692.62	18153692.68	0.0088	0.0087

# 46TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 46th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	45004-04-08 13:41 G		18158530.76	18158531.07	18158531.41	0.0088	0.0026	
Mars	45006-03-05 12:14 G		18159226.85	18159227.01	18159227.24	0.0088	0.0072	
Mercury	45016-11-17 03:36 G		18163136.59	18163136.65	18163136.72	0.0089	0.0083	
Mercury	45017-02-13 07:12 G		18163224.70	18163224.80	18163224.93	0.0089	0.0072	
Mercury	45017-05-12 10:48 G		18163312.83	18163312.95	18163313.11	0.0089	0.0061	
Mercury	45017-08-08 14:53 G		18163400.96	18163401.12	18163401.29	0.0089	0.0049	
Mercury	45017-11-04 18:29 G		18163489.10	18163489.27	18163489.46	0.0089	0.0038	
Mercury	45018-01-31 22:34 G		18163577.25	18163577.44	18163577.63	0.0089	0.0026	
Mercury	45018-04-30 02:10 G		18163665.40	18163665.59	18163665.79	0.0089	0.0015	
Mercury	45018-07-27 06:00 G		18163753.56	18163753.75	18163753.95	0.0089	0.0004	

Mercury	45018-10-23 09:50 G	18163841.71	18163841.91	18163842.11	0.0089	0.0008
Mercury	45019-01-19 13:41 G	18163929.88	18163930.07	18163930.26	0.0089	0.0020
Mercury	45019-04-17 17:02 G	18164018.04	18164018.21	18164018.41	0.0089	0.0032
Mercury	45019-07-14 20:53 G	18164106.21	18164106.37	18164106.56	0.0089	0.0043
Mercury	45019-10-11 00:58 G	18164194.38	18164194.54	18164194.70	0.0089	0.0054
Mercury	45020-01-07 04:19 G	18164282.56	18164282.68	18164282.83	0.0089	0.0066
Mercury	45020-04-04 08:10 G	18164370.76	18164370.84	18164370.95	0.0089	0.0077
Mercury	45020-07-01 12:00 G	18164459.00	18164459.00	18164459.02	0.0089	0.0089
Moon	45036-05-20 22:05 G	18170261.26	18170261.42	18170261.61	0.0089	0.0065
Earth	45036-05-21 01:55 G	18170261.42	18170261.58	18170261.76	0.0089	0.0067 *
Earth	45037-05-23 13:12 G	18170628.84	18170629.05	18170629.30	0.0089	0.0041
Moon	45037-05-23 16:48 G	18170628.99	18170629.20	18170629.44	0.0089	0.0042 *
Moon	45038-05-25 22:34 G	18170996.20	18170996.44	18170996.70	0.0089	0.0014
Earth	45038-05-26 01:12 G	18170996.30	18170996.55	18170996.81	0.0089	0.0015 *
Earth	45039-05-28 12:43 G	18171363.78	18171364.03	18171364.29	0.0089	0.0011
Moon	45039-05-28 14:53 G	18171363.86	18171364.12	18171364.39	0.0089	0.0009 *
Moon	45040-05-29 23:31 G	18171731.27	18171731.48	18171731.72	0.0089	0.0038
Earth	45040-05-30 00:14 G	18171731.28	18171731.51	18171731.75	0.0089	0.0037 *
Moon	45041-06-01 10:34 G	18172098.78	18172098.94	18172099.16	0.0089	0.0062
Earth	45041-06-01 11:31 G	18172098.82	18172098.98	18172099.18	0.0089	0.0063 *
Earth	45042-06-03 22:48 G	18172466.44	18172466.45	18172466.52	0.0089	0.0089
Venus	45063-11-21 21:07 G	18180307.34	18180307.38	18180307.47	0.0090	0.0086
Venus	45064-07-04 10:34 G	18180532.83	18180532.94	18180533.08	0.0090	0.0074
Venus	45065-02-14 23:46 G	18180758.35	18180758.49	18180758.67	0.0090	0.0062
Venus	45065-09-28 13:26 G	18180983.88	18180984.06	18180984.25	0.0090	0.0049
Venus	45066-05-12 02:53 G	18181209.42	18181209.62	18181209.82	0.0090	0.0037
Venus	45066-12-23 16:05 G	18181434.96	18181435.17	18181435.39	0.0090	0.0025
Venus	45067-08-06 05:17 G	18181660.51	18181660.72	18181660.94	0.0090	0.0013
Venus	45068-03-18 18:43 G	18181886.06	18181886.28	18181886.50	0.0090	0.0001
Venus	45068-10-30 07:55 G	18182111.61	18182111.83	18182112.05	0.0090	0.0012

Venus	45069-06-12 21:07 G	18182337.18	18182337.38	18182337.60	0.0090	0.0024
Venus	45070-01-24 10:19 G	18182562.74	18182562.93	18182563.14	0.0090	0.0037
Venus	45070-09-06 23:31 G	18182788.31	18182788.48	18182788.68	0.0089	0.0049
Venus	45071-04-20 12:58 G	18183013.89	18183014.04	18183014.21	0.0089	0.0061
Venus	45071-12-02 02:10 G	18183239.47	18183239.59	18183239.73	0.0089	0.0073
Venus	45072-07-14 15:36 G	18183465.09	18183465.15	18183465.22	0.0089	0.0085
Mars	45084-04-09 17:02 G	18187752.08	18187752.21	18187752.36	0.0089	0.0078
Mars	45086-03-04 14:24 G	18188445.82	18188446.10	18188446.40	0.0089	0.0011
Mercury	45097-03-14 01:41 G	18192473.53	18192473.57	18192473.62	0.0089	0.0083
Mercury	45097-06-10 02:38 G	18192561.56	18192561.61	18192561.69	0.0089	0.0076
Mercury	45097-09-06 04:05 G	18192649.60	18192649.67	18192649.76	0.0089	0.0068
Mercury	45097-12-03 05:17 G	18192737.64	18192737.72	18192737.83	0.0089	0.0061
Mercury	45098-03-01 06:43 G	18192825.68	18192825.78	18192825.89	0.0089	0.0053
Mercury	45098-05-28 07:55 G	18192913.72	18192913.83	18192913.95	0.0089	0.0045
Mercury	45098-08-24 09:07 G	18193001.77	18193001.88	18193002.01	0.0089	0.0038
Mercury	45098-11-20 10:34 G	18193089.82	18193089.94	18193090.06	0.0089	0.0030
Mercury	45099-02-16 11:46 G	18193177.87	18193177.99	18193178.12	0.0089	0.0023
Mercury	45099-05-15 13:12 G	18193265.92	18193266.05	18193266.18	0.0089	0.0015
Mercury	45099-08-11 14:24 G	18193353.97	18193354.10	18193354.23	0.0089	0.0007
Mercury	45099-11-07 15:36 G	18193442.02	18193442.15	18193442.28	0.0089	0.0001
Mercury	45100-02-03 16:48 G	18193530.07	18193530.20	18193530.33	0.0089	0.0008
Mercury	45100-05-02 18:00 G	18193618.13	18193618.25	18193618.38	0.0089	0.0016
Mercury	45100-07-29 19:26 G	18193706.18	18193706.31	18193706.43	0.0089	0.0023
Mercury	45100-10-25 20:38 G	18193794.24	18193794.36	18193794.48	0.0089	0.0031
Mercury	45101-01-21 21:36 G	18193882.29	18193882.40	18193882.53	0.0089	0.0039
Mercury	45101-04-19 23:02 G	18193970.35	18193970.46	18193970.58	0.0089	0.0046
Mercury	45101-07-17 00:14 G	18194058.41	18194058.51	18194058.62	0.0089	0.0053
Mercury	45101-10-13 01:41 G	18194146.48	18194146.57	18194146.66	0.0089	0.0061
Mercury	45102-01-09 02:38 G	18194234.54	18194234.61	18194234.70	0.0089	0.0069
Mercury	45102-04-07 04:05 G	18194322.61	18194322.67	18194322.74	0.0089	0.0076



Mercury	45102-07-04 05:17 G	18194410.69	18194410.72	18194410.77	0.0089	0.0084
Moon	45117-11-20 20:38 G	18200029.19	18200029.36	18200029.55	0.0088	0.0063
Earth	45117-11-21 00:14 G	18200029.36	18200029.51	18200029.70	0.0088	0.0065 *
Earth	45118-11-23 12:00 G	18200396.78	18200397.00	18200397.25	0.0088	0.0040
Moon	45118-11-23 15:36 G	18200396.93	18200397.15	18200397.39	0.0088	0.0041 *
Moon	45119-11-25 20:38 G	18200764.11	18200764.36	18200764.62	0.0088	0.0014
Earth	45119-11-26 00:00 G	18200764.25	18200764.50	18200764.76	0.0088	0.0015 *
Earth	45120-11-27 11:31 G	18201131.72	18201131.98	18201132.24	0.0088	0.0010
Moon	45120-11-27 13:55 G	18201131.82	18201132.08	18201132.35	0.0088	0.0009 *
Moon	45121-11-29 21:50 G	18201499.19	18201499.41	18201499.65	0.0088	0.0036
Earth	45121-11-29 23:02 G	18201499.23	18201499.46	18201499.71	0.0088	0.0035 *
Earth	45122-12-02 10:48 G	18201866.77	18201866.95	18201867.14	0.0088	0.0060
Moon	45122-12-02 11:02 G	18201866.78	18201866.96	18201867.17	0.0088	0.0060 *
Earth	45123-12-04 22:05 G	18202234.38	18202234.42	18202234.50	0.0088	0.0085
Moon	45123-12-04 23:31 G	18202234.44	18202234.48	18202234.53	0.0088	0.0086 *
Venus	45146-08-21 01:12 G	18210529.48	18210529.55	18210529.67	0.0088	0.0080
Venus	45147-04-03 14:10 G	18210754.97	18210755.09	18210755.24	0.0088	0.0068
Venus	45147-11-15 02:53 G	18210980.47	18210980.62	18210980.81	0.0088	0.0057
Venus	45148-06-27 15:50 G	18211205.98	18211206.16	18211206.36	0.0088	0.0045
Venus	45149-02-08 04:34 G	18211431.50	18211431.69	18211431.90	0.0088	0.0034
Venus	45149-09-21 17:31 G	18211657.02	18211657.23	18211657.44	0.0088	0.0022
Venus	45150-05-05 06:14 G	18211882.54	18211882.76	18211882.98	0.0088	0.0010
Venus	45150-12-16 19:12 G	18212108.08	18212108.30	18212108.52	0.0088	0.0002
Venus	45151-07-30 07:41 G	18212333.61	18212333.82	18212334.05	0.0088	0.0013
Venus	45152-03-11 20:24 G	18212559.15	18212559.35	18212559.57	0.0088	0.0024
Venus	45152-10-23 09:07 G	18212784.69	18212784.88	18212785.09	0.0088	0.0036
Venus	45153-06-05 21:36 G	18213010.24	18213010.40	18213010.61	0.0088	0.0048
Venus	45154-01-17 10:34 G	18213235.79	18213235.94	18213236.12	0.0088	0.0059
Venus	45154-08-30 23:31 G	18213461.35	18213461.48	18213461.61	0.0088	0.0070
Venus	45155-04-13 11:46 G	18213686.93	18213686.99	18213687.09	0.0088	0.0082

Mars	45167-11-21 23:46 G	18218292.29	18218292.49	18218292.75	0.0088	0.0065
Mars	45169-10-17 21:36 G	18218988.09	18218988.40	18218988.72	0.0088	0.0034
Mercury	45181-08-15 00:43 G	18223307.46	18223307.53	18223307.60	0.0089	0.0082
Mercury	45181-11-11 04:05 G	18223395.57	18223395.67	18223395.81	0.0089	0.0071
Mercury	45182-02-07 07:55 G	18223483.70	18223483.83	18223483.99	0.0089	0.0060
Mercury	45182-05-06 11:46 G	18223571.84	18223571.99	18223572.17	0.0089	0.0048
Mercury	45182-08-02 15:36 G	18223659.98	18223660.15	18223660.34	0.0089	0.0037
Mercury	45182-10-29 19:26 G	18223748.13	18223748.31	18223748.51	0.0089	0.0025
Mercury	45183-01-25 23:17 G	18223836.28	18223836.47	18223836.67	0.0089	0.0014
Mercury	45183-04-24 03:07 G	18223924.43	18223924.63	18223924.83	0.0089	0.0002
Mercury	45183-07-21 06:43 G	18224012.59	18224012.78	18224012.98	0.0089	0.0010
Mercury	45183-10-17 10:34 G	18224100.75	18224100.94	18224101.14	0.0089	0.0021
Mercury	45184-01-13 14:10 G	18224188.92	18224189.09	18224189.28	0.0089	0.0033
Mercury	45184-04-10 18:00 G	18224277.09	18224277.25	18224277.43	0.0089	0.0044
Mercury	45184-07-07 21:50 G	18224365.26	18224365.41	18224365.57	0.0089	0.0055
Mercury	45184-10-04 01:12 G	18224453.44	18224453.55	18224453.70	0.0089	0.0067
Mercury	45184-12-31 05:17 G	18224541.64	18224541.72	18224541.82	0.0089	0.0078
Earth	45200-05-21 06:29 G	18230161.70	18230161.77	18230161.89	0.0089	0.0083
Moon	45200-05-21 09:22 G	18230161.80	18230161.89	18230162.05	0.0089	0.0079 *
Moon	45201-05-23 16:05 G	18230529.01	18230529.17	18230529.37	0.0089	0.0062
Earth	45201-05-23 18:29 G	18230529.08	18230529.27	18230529.48	0.0089	0.0057 *
Earth	45202-05-26 06:14 G	18230896.52	18230896.76	18230897.00	0.0089	0.0031
Moon	45202-05-26 06:43 G	18230896.54	18230896.78	18230897.05	0.0089	0.0027 *
Earth	45203-05-28 17:46 G	18231263.99	18231264.24	18231264.50	0.0089	0.0005
Moon	45203-05-28 17:46 G	18231264.00	18231264.24	18231264.49	0.0089	0.0009 *
Moon	45204-05-30 04:05 G	18231631.42	18231631.67	18231631.93	0.0089	0.0026
Earth	45204-05-30 05:17 G	18231631.48	18231631.72	18231631.98	0.0089	0.0022 *
Earth	45205-06-01 16:34 G	18231998.99	18231999.19	18231999.43	0.0089	0.0048
Moon	45205-06-01 19:41 G	18231999.10	18231999.32	18231999.54	0.0089	0.0043 *
Moon	45206-06-04 01:12 G	18232366.44	18232366.55	18232366.70	0.0089	0.0078

Earth	45206-06-04 04:05 G	18232366.55	18232366.67	18232366.84	0.0089	0.0074 *
Venus	45228-02-24 05:31 G	18240301.73	18240301.73	18240301.74	0.0090	0.0090
Venus	45228-10-06 18:29 G	18240527.18	18240527.27	18240527.40	0.0090	0.0078
Venus	45229-05-20 07:55 G	18240752.70	18240752.83	18240753.00	0.0090	0.0066
Venus	45229-12-31 21:22 G	18240978.23	18240978.39	18240978.58	0.0090	0.0054
Venus	45230-08-14 10:34 G	18241203.76	18241203.94	18241204.15	0.0090	0.0042
Venus	45231-03-28 00:00 G	18241429.30	18241429.50	18241429.72	0.0090	0.0030
Venus	45231-11-08 13:26 G	18241654.85	18241655.06	18241655.28	0.0090	0.0017
Venus	45232-06-21 02:53 G	18241880.40	18241880.62	18241880.84	0.0090	0.0005
Venus	45233-02-01 16:05 G	18242105.95	18242106.17	18242106.39	0.0090	0.0007
Venus	45233-09-15 05:02 G	18242331.51	18242331.71	18242331.94	0.0090	0.0020
Venus	45234-04-28 18:29 G	18242557.07	18242557.27	18242557.48	0.0090	0.0032
Venus	45234-12-10 07:41 G	18242782.64	18242782.82	18242783.02	0.0090	0.0044
Venus	45235-07-23 20:53 G	18243008.21	18243008.37	18243008.55	0.0090	0.0056
Venus	45236-03-05 10:05 G	18243233.79	18243233.92	18243234.07	0.0090	0.0068
Venus	45236-10-16 23:17 G	18243459.39	18243459.47	18243459.58	0.0090	0.0080
Mars	45249-10-18 17:46 G	18248208.96	18248209.24	18248209.53	0.0089	0.0025
Mars	45251-09-12 14:24 G	18248902.91	18248903.10	18248903.32	0.0089	0.0063
Mercury	45261-12-10 00:58 G	18252644.50	18252644.54	18252644.59	0.0089	0.0082
Mercury	45262-03-08 01:55 G	18252732.53	18252732.58	18252732.67	0.0089	0.0075
Mercury	45262-06-04 03:22 G	18252820.56	18252820.64	18252820.73	0.0089	0.0067
Mercury	45262-08-31 04:48 G	18252908.60	18252908.70	18252908.80	0.0089	0.0059
Mercury	45262-11-27 06:00 G	18252996.65	18252996.75	18252996.86	0.0089	0.0052
Mercury	45263-02-23 07:12 G	18253084.69	18253084.80	18253084.92	0.0089	0.0044
Mercury	45263-05-22 08:24 G	18253172.74	18253172.85	18253172.98	0.0089	0.0037
Mercury	45263-08-18 09:50 G	18253260.79	18253260.91	18253261.03	0.0089	0.0029
Mercury	45263-11-14 11:02 G	18253348.84	18253348.96	18253349.09	0.0089	0.0021
Mercury	45264-02-10 12:14 G	18253436.89	18253437.01	18253437.14	0.0089	0.0014
Mercury	45264-05-08 13:41 G	18253524.94	18253525.07	18253525.20	0.0089	0.0006
Mercury	45264-08-04 14:53 G	18253612.99	18253613.12	18253613.25	0.0089	0.0001

Mercury	45264-10-31 16:05 G	18253701.04	18253701.17	18253701.30	0.0089	0.0009
Mercury	45265-01-27 17:17 G	18253789.10	18253789.22	18253789.35	0.0089	0.0017
Mercury	45265-04-25 18:29 G	18253877.15	18253877.27	18253877.40	0.0089	0.0025
Mercury	45265-07-22 19:55 G	18253965.21	18253965.33	18253965.45	0.0089	0.0032
Mercury	45265-10-18 20:53 G	18254053.26	18254053.37	18254053.50	0.0089	0.0040
Mercury	45266-01-14 22:19 G	18254141.32	18254141.43	18254141.54	0.0089	0.0047
Mercury	45266-04-12 23:31 G	18254229.38	18254229.48	18254229.59	0.0089	0.0055
Mercury	45266-07-10 00:58 G	18254317.45	18254317.54	18254317.63	0.0089	0.0062
Mercury	45266-10-06 01:55 G	18254405.51	18254405.58	18254405.67	0.0089	0.0070
Mercury	45267-01-02 03:07 G	18254493.58	18254493.63	18254493.71	0.0089	0.0078
Mercury	45267-03-31 04:34 G	18254581.66	18254581.69	18254581.73	0.0089	0.0085
Earth	45281-11-20 05:31 G	18259929.65	18259929.73	18259929.87	0.0088	0.0080
Moon	45281-11-20 09:22 G	18259929.84	18259929.89	18259929.99	0.0088	0.0084 *
Moon	45282-11-22 15:07 G	18260296.95	18260297.13	18260297.36	0.0088	0.0051
Earth	45282-11-22 17:31 G	18260297.05	18260297.23	18260297.46	0.0088	0.0055 *
Earth	45283-11-25 05:31 G	18260664.49	18260664.73	18260664.98	0.0088	0.0029
Moon	45283-11-25 07:26 G	18260664.57	18260664.81	18260665.07	0.0088	0.0033 *
Moon	45284-11-26 16:34 G	18261031.94	18261032.19	18261032.44	0.0088	0.0000
Earth	45284-11-26 17:17 G	18261031.96	18261032.22	18261032.48	0.0088	0.0004 *
Moon	45285-11-29 03:50 G	18261399.40	18261399.66	18261399.93	0.0088	0.0017
Earth	45285-11-29 04:48 G	18261399.45	18261399.70	18261399.96	0.0088	0.0021 *
Earth	45286-12-01 16:19 G	18261766.97	18261767.18	18261767.41	0.0088	0.0046
Moon	45286-12-01 18:00 G	18261767.05	18261767.25	18261767.46	0.0088	0.0050 *
Moon	45287-12-04 00:43 G	18262134.38	18262134.53	18262134.72	0.0088	0.0067
Earth	45287-12-04 04:05 G	18262134.52	18262134.67	18262134.82	0.0088	0.0071 *
Venus	45310-11-23 10:19 G	18270523.87	18270523.93	18270524.01	0.0088	0.0083
Venus	45311-07-06 22:48 G	18270749.34	18270749.45	18270749.59	0.0088	0.0072
Venus	45312-02-17 11:17 G	18270974.83	18270974.97	18270975.15	0.0088	0.0061
Venus	45312-09-30 00:14 G	18271200.34	18271200.51	18271200.70	0.0088	0.0049
Venus	45313-05-13 12:43 G	18271425.85	18271426.03	18271426.25	0.0088	0.0038

Venus	45313-12-25 01:55 G	18271651.37	18271651.58	18271651.79	0.0088	0.0026
Venus	45314-08-07 14:24 G	18271876.89	18271877.10	18271877.32	0.0088	0.0015
Venus	45315-03-21 03:07 G	18272102.42	18272102.63	18272102.86	0.0088	0.0004
Venus	45315-11-01 16:05 G	18272327.95	18272328.17	18272328.39	0.0088	0.0008
Venus	45316-06-14 04:48 G	18272553.49	18272553.70	18272553.92	0.0088	0.0020
Venus	45317-01-25 17:31 G	18272779.03	18272779.23	18272779.44	0.0088	0.0031
Venus	45317-09-08 06:00 G	18273004.57	18273004.75	18273004.96	0.0088	0.0043
Venus	45318-04-21 18:43 G	18273230.12	18273230.28	18273230.47	0.0088	0.0054
Venus	45318-12-03 07:26 G	18273455.69	18273455.81	18273455.98	0.0088	0.0066
Venus	45319-07-16 20:10 G	18273681.26	18273681.34	18273681.47	0.0088	0.0077
Mars	45333-06-01 07:26 G	18278749.48	18278749.81	18278750.15	0.0088	0.0005
Mercury	45346-05-12 21:07 G	18283478.32	18283478.38	18283478.47	0.0089	0.0082
Mercury	45346-08-09 00:43 G	18283566.43	18283566.53	18283566.67	0.0089	0.0071
Mercury	45346-11-05 04:48 G	18283654.56	18283654.70	18283654.85	0.0089	0.0059
Mercury	45347-02-01 08:24 G	18283742.70	18283742.85	18283743.03	0.0089	0.0048
Mercury	45347-04-30 12:29 G	18283830.84	18283831.02	18283831.20	0.0089	0.0036
Mercury	45347-07-27 16:05 G	18283918.99	18283919.17	18283919.37	0.0089	0.0025
Mercury	45347-10-23 19:55 G	18284007.14	18284007.33	18284007.53	0.0089	0.0013
Mercury	45348-01-19 23:46 G	18284095.29	18284095.49	18284095.69	0.0089	0.0002
Mercury	45348-04-17 03:36 G	18284183.45	18284183.65	18284183.85	0.0089	0.0010
Mercury	45348-07-14 06:58 G	18284271.61	18284271.79	18284272.00	0.0089	0.0022
Mercury	45348-10-10 10:48 G	18284359.78	18284359.95	18284360.15	0.0089	0.0033
Mercury	45349-01-06 14:38 G	18284447.95	18284448.11	18284448.29	0.0089	0.0044
Mercury	45349-04-04 18:14 G	18284536.12	18284536.26	18284536.43	0.0089	0.0056
Mercury	45349-07-01 22:05 G	18284624.30	18284624.42	18284624.56	0.0089	0.0067
Mercury	45349-09-28 02:10 G	18284712.50	18284712.59	18284712.68	0.0089	0.0078
Earth	45365-05-23 23:02 G	18290429.33	18290429.46	18290429.62	0.0089	0.0073
Moon	45365-05-23 23:46 G	18290429.34	18290429.49	18290429.65	0.0089	0.0073 *
Earth	45366-05-26 10:48 G	18290796.74	18290796.95	18290797.17	0.0089	0.0047
Moon	45366-05-26 12:00 G	18290796.80	18290797.00	18290797.22	0.0089	0.0046 *

Moon	45367-05-28 20:24 G	18291164.10	18291164.35	18291164.61	0.0089	0.0021
Earth	45367-05-28 22:34 G	18291164.19	18291164.44	18291164.69	0.0089	0.0021 *
Earth	45368-05-30 10:19 G	18291531.67	18291531.93	18291532.18	0.0089	0.0006
Moon	45368-05-30 13:12 G	18291531.80	18291532.05	18291532.30	0.0089	0.0006 *
Moon	45369-06-01 18:14 G	18291899.02	18291899.26	18291899.51	0.0089	0.0031
Earth	45369-06-01 21:50 G	18291899.18	18291899.41	18291899.66	0.0089	0.0032 *
Earth	45370-06-04 09:07 G	18292266.70	18292266.88	18292267.09	0.0089	0.0058
Moon	45370-06-04 12:29 G	18292266.84	18292267.02	18292267.23	0.0089	0.0058 *
Moon	45371-06-06 17:02 G	18292634.16	18292634.21	18292634.33	0.0089	0.0085
Earth	45371-06-06 20:53 G	18292634.30	18292634.37	18292634.47	0.0089	0.0084 *
Venus	45393-01-09 02:24 G	18300521.51	18300521.60	18300521.68	0.0090	0.0082
Venus	45393-08-22 15:07 G	18300747.02	18300747.13	18300747.29	0.0090	0.0071
Venus	45394-04-05 05:02 G	18300972.55	18300972.71	18300972.88	0.0090	0.0058
Venus	45394-11-16 18:29 G	18301198.08	18301198.27	18301198.46	0.0090	0.0046
Venus	45395-06-30 07:55 G	18301423.63	18301423.83	18301424.03	0.0090	0.0034
Venus	45396-02-10 21:07 G	18301649.17	18301649.38	18301649.60	0.0090	0.0022
Venus	45396-09-23 10:34 G	18301874.72	18301874.94	18301875.16	0.0090	0.0010
Venus	45397-05-07 00:00 G	18302100.28	18302100.50	18302100.72	0.0090	0.0003
Venus	45397-12-18 12:58 G	18302325.83	18302326.04	18302326.27	0.0090	0.0015
Venus	45398-08-01 02:10 G	18302551.39	18302551.59	18302551.81	0.0090	0.0027
Venus	45399-03-14 15:22 G	18302776.95	18302777.14	18302777.35	0.0090	0.0039
Venus	45399-10-26 04:34 G	18303002.52	18303002.69	18303002.89	0.0090	0.0051
Venus	45400-06-08 17:46 G	18303228.11	18303228.24	18303228.42	0.0090	0.0063
Venus	45401-01-20 06:58 G	18303453.69	18303453.79	18303453.94	0.0090	0.0075
Venus	45401-09-02 20:38 G	18303679.31	18303679.36	18303679.42	0.0090	0.0086
Mars	45413-06-04 18:14 G	18307972.07	18307972.26	18307972.50	0.0089	0.0061
Mars	45415-04-29 17:46 G	18308665.97	18308666.24	18308666.53	0.0089	0.0029
Mercury	45426-09-08 00:14 G	18312815.46	18312815.51	18312815.56	0.0089	0.0081
Mercury	45426-12-05 01:12 G	18312903.49	18312903.55	18312903.63	0.0089	0.0074
Mercury	45427-03-03 02:38 G	18312991.53	18312991.61	18312991.70	0.0089	0.0066

Mercury	45427-05-30 03:50 G	18313079.57	18313079.66	18313079.76	0.0089	0.0059
Mercury	45427-08-26 05:17 G	18313167.61	18313167.72	18313167.82	0.0089	0.0051
Mercury	45427-11-22 06:14 G	18313255.66	18313255.76	18313255.88	0.0089	0.0044
Mercury	45428-02-18 07:41 G	18313343.70	18313343.82	18313343.94	0.0089	0.0036
Mercury	45428-05-16 08:53 G	18313431.75	18313431.87	18313432.00	0.0089	0.0028
Mercury	45428-08-12 10:19 G	18313519.80	18313519.93	18313520.05	0.0089	0.0021
Mercury	45428-11-08 11:31 G	18313607.85	18313607.98	18313608.11	0.0089	0.0013
Mercury	45429-02-04 12:43 G	18313695.90	18313696.03	18313696.16	0.0089	0.0006
Mercury	45429-05-03 13:55 G	18313783.95	18313784.08	18313784.21	0.0089	0.0003
Mercury	45429-07-30 15:22 G	18313872.01	18313872.14	18313872.27	0.0089	0.0010
Mercury	45429-10-26 16:34 G	18313960.06	18313960.19	18313960.32	0.0089	0.0017
Mercury	45430-01-22 17:46 G	18314048.11	18314048.24	18314048.37	0.0089	0.0025
Mercury	45430-04-20 18:58 G	18314136.17	18314136.29	18314136.41	0.0089	0.0032
Mercury	45430-07-17 20:10 G	18314224.23	18314224.34	18314224.46	0.0089	0.0040
Mercury	45430-10-13 21:22 G	18314312.29	18314312.39	18314312.51	0.0089	0.0048
Mercury	45431-01-09 22:34 G	18314400.35	18314400.44	18314400.55	0.0089	0.0056
Mercury	45431-04-08 00:00 G	18314488.41	18314488.50	18314488.59	0.0089	0.0063
Mercury	45431-07-05 00:58 G	18314576.48	18314576.54	18314576.63	0.0089	0.0071
Mercury	45431-10-01 02:38 G	18314664.55	18314664.61	18314664.67	0.0089	0.0078
Mercury	45431-12-28 03:36 G	18314752.63	18314752.65	18314752.69	0.0089	0.0086
Jupiter	45444-04-14 00:29 G	18319242.98	18319243.52	18319244.08	0.0088	0.0004
Earth	45446-11-23 23:02 G	18320197.31	18320197.46	18320197.62	0.0088	0.0069
Moon	45446-11-23 23:31 G	18320197.32	18320197.48	18320197.67	0.0088	0.0066 *
Earth	45447-11-26 10:34 G	18320564.73	18320564.94	18320565.18	0.0088	0.0044
Moon	45447-11-26 10:34 G	18320564.75	18320564.94	18320565.18	0.0088	0.0047 *
Moon	45448-11-27 21:07 G	18320932.13	18320932.38	18320932.65	0.0088	0.0016
Earth	45448-11-27 22:19 G	18320932.19	18320932.43	18320932.70	0.0088	0.0019 *
Earth	45449-11-30 10:05 G	18321299.67	18321299.92	18321300.19	0.0088	0.0007
Moon	45449-11-30 12:58 G	18321299.79	18321300.04	18321300.29	0.0088	0.0004 *
Moon	45450-12-02 18:43 G	18321667.04	18321667.28	18321667.52	0.0088	0.0034

Earth	45450-12-02 21:36 G	18321667.17	18321667.40	18321667.65	0.0088	0.0032	*
Earth	45451-12-05 08:53 G	18322034.69	18322034.87	18322035.08	0.0088	0.0057	
Moon	45451-12-05 12:29 G	18322034.84	18322035.02	18322035.24	0.0088	0.0055	*
Moon	45452-12-06 17:02 G	18322402.17	18322402.21	18322402.29	0.0088	0.0085	
Earth	45452-12-06 20:38 G	18322402.28	18322402.36	18322402.46	0.0088	0.0082	*
Venus	45475-02-25 18:29 G	18330518.26	18330518.27	18330518.33	0.0088	0.0087	
Venus	45475-10-09 07:12 G	18330743.71	18330743.80	18330743.94	0.0088	0.0076	
Venus	45476-05-21 20:24 G	18330969.20	18330969.35	18330969.50	0.0088	0.0064	
Venus	45477-01-02 08:53 G	18331194.70	18331194.87	18331195.05	0.0088	0.0053	
Venus	45477-08-15 21:22 G	18331420.21	18331420.39	18331420.60	0.0088	0.0042	
Venus	45478-03-29 10:05 G	18331645.72	18331645.92	18331646.14	0.0088	0.0031	
Venus	45478-11-09 23:02 G	18331871.25	18331871.46	18331871.68	0.0088	0.0019	
Venus	45479-06-23 11:46 G	18332096.77	18332096.99	18332097.21	0.0088	0.0008	
Venus	45480-02-04 00:29 G	18332322.30	18332322.52	18332322.74	0.0088	0.0004	
Venus	45480-09-16 13:12 G	18332547.83	18332548.05	18332548.26	0.0088	0.0015	
Venus	45481-04-30 01:41 G	18332773.37	18332773.57	18332773.79	0.0088	0.0027	
Venus	45481-12-11 14:24 G	18332998.91	18332999.10	18332999.31	0.0088	0.0038	
Venus	45482-07-25 03:22 G	18333224.46	18333224.64	18333224.83	0.0088	0.0049	
Venus	45483-03-07 15:36 G	18333450.01	18333450.15	18333450.33	0.0088	0.0061	
Venus	45483-10-19 04:34 G	18333675.58	18333675.69	18333675.83	0.0088	0.0072	
Venus	45484-05-31 17:17 G	18333901.17	18333901.22	18333901.30	0.0088	0.0083	
Mars	45497-01-13 17:46 G	18338510.97	18338511.24	18338511.54	0.0088	0.0045	
Mars	45498-12-10 12:29 G	18339206.79	18339207.02	18339207.32	0.0088	0.0055	
Mercury	45511-02-08 17:46 G	18343649.18	18343649.24	18343649.33	0.0089	0.0082	
Mercury	45511-05-07 21:50 G	18343737.29	18343737.41	18343737.53	0.0089	0.0070	
Mercury	45511-08-04 01:26 G	18343825.42	18343825.56	18343825.72	0.0089	0.0059	
Mercury	45511-10-31 05:02 G	18343913.56	18343913.71	18343913.89	0.0089	0.0048	
Mercury	45512-01-27 09:07 G	18344001.70	18344001.88	18344002.07	0.0089	0.0036	
Mercury	45512-04-24 12:43 G	18344089.85	18344090.03	18344090.23	0.0089	0.0025	
Mercury	45512-07-21 16:48 G	18344178.00	18344178.20	18344178.39	0.0089	0.0013	



Mercury	45512-10-17 20:24 G	18344266.16	18344266.35	18344266.55	0.0089	0.0003
Mercury	45513-01-14 00:14 G	18344354.31	18344354.51	18344354.71	0.0089	0.0010
Mercury	45513-04-12 03:50 G	18344442.48	18344442.66	18344442.86	0.0089	0.0022
Mercury	45513-07-09 07:41 G	18344530.64	18344530.82	18344531.01	0.0089	0.0033
Mercury	45513-10-05 11:17 G	18344618.81	18344618.97	18344619.15	0.0089	0.0045
Mercury	45514-01-01 15:07 G	18344706.98	18344707.13	18344707.29	0.0089	0.0056
Mercury	45514-03-30 18:58 G	18344795.17	18344795.29	18344795.42	0.0089	0.0067
Mercury	45514-06-26 22:19 G	18344883.36	18344883.43	18344883.54	0.0089	0.0079
Earth	45529-05-25 03:22 G	18350329.62	18350329.64	18350329.67	0.0089	0.0089
Moon	45529-05-25 04:48 G	18350329.64	18350329.70	18350329.79	0.0089	0.0085 *
Moon	45530-05-27 11:17 G	18350696.83	18350696.97	18350697.17	0.0089	0.0068
Earth	45530-05-27 14:53 G	18350696.94	18350697.12	18350697.31	0.0089	0.0063 *
Earth	45531-05-30 02:24 G	18351064.37	18351064.60	18351064.84	0.0089	0.0037
Moon	45531-05-30 05:46 G	18351064.51	18351064.74	18351064.98	0.0089	0.0033 *
Moon	45532-05-31 10:19 G	18351431.69	18351431.93	18351432.19	0.0089	0.0016
Earth	45532-05-31 14:10 G	18351431.84	18351432.09	18351432.34	0.0089	0.0011 *
Earth	45533-06-03 01:26 G	18351799.32	18351799.56	18351799.82	0.0089	0.0016
Moon	45533-06-03 04:48 G	18351799.46	18351799.70	18351799.96	0.0089	0.0021 *
Moon	45534-06-05 11:02 G	18352166.74	18352166.96	18352167.19	0.0089	0.0038
Earth	45534-06-05 13:26 G	18352166.84	18352167.06	18352167.29	0.0089	0.0042 *
Earth	45535-06-08 01:12 G	18352534.39	18352534.55	18352534.72	0.0089	0.0068
Moon	45535-06-08 02:38 G	18352534.48	18352534.61	18352534.79	0.0089	0.0073 *
Venus	45557-04-14 08:53 G	18360515.84	18360515.87	18360515.94	0.0090	0.0087
Venus	45557-11-25 22:34 G	18360741.33	18360741.44	18360741.57	0.0090	0.0075
Venus	45558-07-09 12:00 G	18360966.85	18360967.00	18360967.16	0.0090	0.0063
Venus	45559-02-20 01:12 G	18361192.38	18361192.55	18361192.74	0.0090	0.0051
Venus	45559-10-03 14:38 G	18361417.92	18361418.11	18361418.31	0.0090	0.0039
Venus	45560-05-16 04:19 G	18361643.47	18361643.68	18361643.89	0.0090	0.0027
Venus	45560-12-27 17:31 G	18361869.02	18361869.23	18361869.45	0.0090	0.0015
Venus	45561-08-10 06:58 G	18362094.57	18362094.79	18362095.01	0.0090	0.0003

Venus	45562-03-23 20:10 G	18362320.12	18362320.34	18362320.56	0.0090	0.0009
Venus	45562-11-04 09:36 G	18362545.68	18362545.90	18362546.11	0.0090	0.0021
Venus	45563-06-17 22:48 G	18362771.25	18362771.45	18362771.66	0.0090	0.0033
Venus	45564-01-29 12:00 G	18362996.82	18362997.00	18362997.20	0.0090	0.0045
Venus	45564-09-11 01:12 G	18363222.39	18363222.55	18363222.73	0.0090	0.0057
Venus	45565-04-24 14:24 G	18363447.98	18363448.10	18363448.25	0.0090	0.0069
Venus	45565-12-06 03:36 G	18363673.57	18363673.65	18363673.76	0.0090	0.0081
Mars	45578-12-13 17:17 G	18368428.93	18368429.22	18368429.52	0.0089	0.0007
Mars	45580-11-06 16:19 G	18369123.08	18369123.18	18369123.31	0.0089	0.0081
Mercury	45591-03-09 21:50 G	18372898.41	18372898.41	18372898.43	0.0089	0.0089
Mercury	45591-06-05 23:02 G	18372986.42	18372986.46	18372986.52	0.0089	0.0081
Mercury	45591-09-02 00:29 G	18373074.45	18373074.52	18373074.60	0.0089	0.0073
Mercury	45591-11-29 01:41 G	18373162.49	18373162.57	18373162.66	0.0089	0.0066
Mercury	45592-02-25 03:07 G	18373250.53	18373250.63	18373250.73	0.0089	0.0058
Mercury	45592-05-23 04:05 G	18373338.57	18373338.67	18373338.79	0.0089	0.0051
Mercury	45592-08-19 05:31 G	18373426.62	18373426.73	18373426.85	0.0089	0.0043
Mercury	45592-11-15 06:43 G	18373514.67	18373514.78	18373514.91	0.0089	0.0036
Mercury	45593-02-11 07:55 G	18373602.71	18373602.83	18373602.96	0.0089	0.0028
Mercury	45593-05-10 09:07 G	18373690.76	18373690.88	18373691.02	0.0089	0.0021
Mercury	45593-08-06 10:34 G	18373778.81	18373778.94	18373779.07	0.0089	0.0013
Mercury	45593-11-02 11:46 G	18373866.86	18373866.99	18373867.12	0.0089	0.0006
Mercury	45594-01-29 13:12 G	18373954.91	18373955.05	18373955.18	0.0089	0.0004
Mercury	45594-04-27 14:10 G	18374042.97	18374043.09	18374043.23	0.0089	0.0011
Mercury	45594-07-24 15:36 G	18374131.02	18374131.15	18374131.28	0.0089	0.0018
Mercury	45594-10-20 16:48 G	18374219.08	18374219.20	18374219.33	0.0089	0.0025
Mercury	45595-01-16 18:00 G	18374307.13	18374307.25	18374307.38	0.0089	0.0033
Mercury	45595-04-14 19:12 G	18374395.19	18374395.30	18374395.42	0.0089	0.0041
Mercury	45595-07-11 20:38 G	18374483.25	18374483.36	18374483.47	0.0089	0.0048
Mercury	45595-10-07 21:36 G	18374571.31	18374571.40	18374571.51	0.0089	0.0056
Mercury	45596-01-03 22:48 G	18374659.37	18374659.45	18374659.55	0.0089	0.0064

Mercury	45596-04-01 00:14 G	18374747.44	18374747.51	18374747.59	0.0089	0.0071
Mercury	45596-06-28 01:26 G	18374835.51	18374835.56	18374835.63	0.0089	0.0078
Mercury	45596-09-24 02:53 G	18374923.59	18374923.62	18374923.65	0.0089	0.0086
Earth	45610-11-24 03:36 G	18380097.60	18380097.65	18380097.74	0.0088	0.0084
Moon	45610-11-24 04:48 G	18380097.69	18380097.70	18380097.75	0.0088	0.0087 *
Moon	45611-11-26 12:58 G	18380464.86	18380465.04	18380465.27	0.0088	0.0057
Earth	45611-11-26 15:22 G	18380464.97	18380465.14	18380465.36	0.0088	0.0059 *
Earth	45612-11-28 03:50 G	18380832.42	18380832.66	18380832.90	0.0088	0.0033
Moon	45612-11-28 06:14 G	18380832.54	18380832.76	18380833.01	0.0088	0.0037 *
Moon	45613-11-30 11:46 G	18381199.73	18381199.99	18381200.26	0.0088	0.0005
Earth	45613-11-30 15:36 G	18381199.89	18381200.15	18381200.41	0.0088	0.0008 *
Earth	45614-12-03 03:07 G	18381567.37	18381567.63	18381567.88	0.0088	0.0017
Moon	45614-12-03 06:14 G	18381567.51	18381567.76	18381568.03	0.0088	0.0015 *
Moon	45615-12-05 11:17 G	18381934.76	18381934.97	18381935.19	0.0088	0.0046
Earth	45615-12-05 14:24 G	18381934.89	18381935.10	18381935.34	0.0088	0.0043 *
Earth	45616-12-07 01:55 G	18382302.44	18382302.58	18382302.76	0.0088	0.0068
Moon	45616-12-07 04:05 G	18382302.52	18382302.67	18382302.88	0.0088	0.0065 *
Venus	45640-01-11 15:50 G	18390738.08	18390738.16	18390738.27	0.0088	0.0079
Venus	45640-08-24 04:34 G	18390963.56	18390963.69	18390963.84	0.0088	0.0068
Venus	45641-04-06 17:02 G	18391189.06	18391189.21	18391189.40	0.0088	0.0057
Venus	45641-11-18 06:00 G	18391414.57	18391414.75	18391414.95	0.0088	0.0046
Venus	45642-07-01 18:29 G	18391640.09	18391640.27	18391640.49	0.0088	0.0035
Venus	45643-02-12 07:12 G	18391865.60	18391865.80	18391866.03	0.0088	0.0024
Venus	45643-09-25 20:10 G	18392091.12	18392091.34	18392091.56	0.0088	0.0012
Venus	45644-05-08 08:53 G	18392316.65	18392316.87	18392317.09	0.0088	0.0001
Venus	45644-12-19 21:36 G	18392542.18	18392542.40	18392542.62	0.0088	0.0011
Venus	45645-08-02 10:05 G	18392767.71	18392767.92	18392768.14	0.0088	0.0022
Venus	45646-03-15 22:34 G	18392993.25	18392993.44	18392993.66	0.0088	0.0034
Venus	45646-10-27 11:17 G	18393218.80	18393218.97	18393219.18	0.0088	0.0045
Venus	45647-06-10 00:00 G	18393444.35	18393444.50	18393444.69	0.0088	0.0056

Venus	45648-01-21 12:58 G	18393669.91	18393670.04	18393670.19	0.0088	0.0067
Venus	45648-09-03 01:41 G	18393895.48	18393895.57	18393895.68	0.0088	0.0078
Mars	45660-08-28 06:29 G	18398272.70	18398272.77	18398272.89	0.0088	0.0084
Mars	45662-07-24 23:46 G	18398968.17	18398968.49	18398968.83	0.0088	0.0014
Mercury	45675-11-05 14:10 G	18403820.04	18403820.09	18403820.18	0.0089	0.0082
Mercury	45676-02-01 18:00 G	18403908.15	18403908.25	18403908.39	0.0089	0.0071
Mercury	45676-04-29 22:05 G	18403996.28	18403996.42	18403996.57	0.0089	0.0059
Mercury	45676-07-27 01:41 G	18404084.42	18404084.57	18404084.75	0.0089	0.0048
Mercury	45676-10-23 05:31 G	18404172.56	18404172.73	18404172.92	0.0089	0.0036
Mercury	45677-01-19 09:22 G	18404260.71	18404260.89	18404261.09	0.0089	0.0025
Mercury	45677-04-17 13:12 G	18404348.86	18404349.05	18404349.25	0.0089	0.0013
Mercury	45677-07-14 17:02 G	18404437.01	18404437.21	18404437.41	0.0089	0.0002
Mercury	45677-10-10 20:53 G	18404525.17	18404525.37	18404525.57	0.0089	0.0010
Mercury	45678-01-07 00:29 G	18404613.33	18404613.52	18404613.72	0.0089	0.0022
Mercury	45678-04-05 04:19 G	18404701.50	18404701.68	18404701.87	0.0089	0.0033
Mercury	45678-07-02 07:55 G	18404789.67	18404789.83	18404790.01	0.0089	0.0045
Mercury	45678-09-28 11:46 G	18404877.84	18404877.99	18404878.15	0.0089	0.0056
Mercury	45678-12-25 15:07 G	18404966.03	18404966.13	18404966.28	0.0089	0.0068
Mercury	45679-03-23 18:58 G	18405054.22	18405054.29	18405054.40	0.0089	0.0079
Earth	45694-05-26 19:26 G	18410597.19	18410597.31	18410597.43	0.0089	0.0079
Moon	45694-05-26 22:48 G	18410597.37	18410597.45	18410597.57	0.0089	0.0081 *
Moon	45695-05-29 03:07 G	18410964.45	18410964.63	18410964.86	0.0089	0.0050
Earth	45695-05-29 06:58 G	18410964.59	18410964.79	18410965.00	0.0089	0.0053 *
Earth	45696-05-30 18:14 G	18411332.02	18411332.26	18411332.50	0.0089	0.0027
Moon	45696-05-30 21:07 G	18411332.14	18411332.38	18411332.64	0.0089	0.0028 *
Moon	45697-06-02 03:50 G	18411699.41	18411699.66	18411699.91	0.0089	0.0002
Earth	45697-06-02 05:46 G	18411699.49	18411699.74	18411700.00	0.0089	0.0001 *
Earth	45698-06-04 17:31 G	18412066.98	18412067.23	18412067.47	0.0089	0.0026
Moon	45698-06-04 17:46 G	18412067.00	18412067.24	18412067.51	0.0089	0.0024 *
Earth	45699-06-07 04:34 G	18412434.50	18412434.69	18412434.92	0.0089	0.0052

Moon	45699-06-07 05:02 G	18412434.52	18412434.71	18412434.91	0.0089	0.0054 *
Moon	45700-06-09 14:24 G	18412801.99	18412802.10	18412802.27	0.0089	0.0077
Earth	45700-06-09 16:05 G	18412802.08	18412802.17	18412802.32	0.0089	0.0079 *
Venus	45722-02-28 05:17 G	18420735.64	18420735.72	18420735.84	0.0090	0.0080
Venus	45722-10-11 18:43 G	18420961.15	18420961.28	18420961.44	0.0090	0.0068
Venus	45723-05-25 08:24 G	18421186.69	18421186.85	18421187.03	0.0090	0.0056
Venus	45724-01-05 21:50 G	18421412.22	18421412.41	18421412.60	0.0090	0.0044
Venus	45724-08-18 11:17 G	18421637.76	18421637.97	18421638.17	0.0090	0.0032
Venus	45725-04-01 00:14 G	18421863.31	18421863.51	18421863.74	0.0090	0.0021
Venus	45725-11-12 13:55 G	18422088.87	18422089.08	18422089.30	0.0090	0.0008
Venus	45726-06-26 03:22 G	18422314.43	18422314.64	18422314.86	0.0090	0.0004
Venus	45727-02-06 16:48 G	18422539.98	18422540.20	18422540.42	0.0090	0.0016
Venus	45727-09-20 06:00 G	18422765.55	18422765.75	18422765.96	0.0090	0.0028
Venus	45728-05-02 19:12 G	18422991.12	18422991.30	18422991.51	0.0090	0.0040
Venus	45728-12-14 08:24 G	18423216.69	18423216.85	18423217.05	0.0090	0.0052
Venus	45729-07-27 21:36 G	18423442.27	18423442.40	18423442.57	0.0090	0.0064
Venus	45730-03-10 11:02 G	18423667.85	18423667.96	18423668.09	0.0090	0.0075
Venus	45730-10-22 00:14 G	18423893.47	18423893.51	18423893.58	0.0090	0.0087
Mars	45742-07-29 15:07 G	18428191.89	18428192.13	18428192.40	0.0089	0.0045
Mars	45744-06-22 14:53 G	18428885.89	18428886.12	18428886.40	0.0089	0.0046
Mercury	45755-12-05 20:53 G	18433069.37	18433069.37	18433069.40	0.0089	0.0088
Mercury	45756-03-02 22:05 G	18433157.38	18433157.42	18433157.49	0.0089	0.0081
Mercury	45756-05-29 23:31 G	18433245.41	18433245.48	18433245.56	0.0089	0.0073
Mercury	45756-08-26 00:58 G	18433333.45	18433333.54	18433333.63	0.0089	0.0065
Mercury	45756-11-22 01:55 G	18433421.49	18433421.58	18433421.69	0.0089	0.0058
Mercury	45757-02-18 03:22 G	18433509.54	18433509.64	18433509.75	0.0089	0.0050
Mercury	45757-05-17 04:34 G	18433597.58	18433597.69	18433597.81	0.0089	0.0043
Mercury	45757-08-13 05:46 G	18433685.63	18433685.74	18433685.87	0.0089	0.0035
Mercury	45757-11-09 06:58 G	18433773.67	18433773.79	18433773.92	0.0089	0.0028
Mercury	45758-02-05 08:24 G	18433861.72	18433861.85	18433861.98	0.0089	0.0020

Mercury	45758-05-04 09:36 G	18433949.77	18433949.90	18433950.03	0.0089	0.0012
Mercury	45758-07-31 10:48 G	18434037.82	18434037.95	18434038.09	0.0089	0.0006
Mercury	45758-10-27 12:14 G	18434125.88	18434126.01	18434126.14	0.0089	0.0004
Mercury	45759-01-23 13:26 G	18434213.93	18434214.06	18434214.19	0.0089	0.0011
Mercury	45759-04-21 14:38 G	18434301.98	18434302.11	18434302.24	0.0089	0.0018
Mercury	45759-07-18 15:50 G	18434390.04	18434390.16	18434390.29	0.0089	0.0026
Mercury	45759-10-14 17:02 G	18434478.09	18434478.21	18434478.34	0.0089	0.0034
Mercury	45760-01-10 18:29 G	18434566.15	18434566.27	18434566.38	0.0089	0.0041
Mercury	45760-04-07 19:26 G	18434654.21	18434654.31	18434654.43	0.0089	0.0049
Mercury	45760-07-04 20:53 G	18434742.27	18434742.37	18434742.47	0.0089	0.0056
Mercury	45760-09-30 22:05 G	18434830.34	18434830.42	18434830.52	0.0089	0.0064
Mercury	45760-12-27 23:17 G	18434918.40	18434918.47	18434918.55	0.0089	0.0071
Mercury	45761-03-26 00:29 G	18435006.47	18435006.52	18435006.59	0.0089	0.0079
Mercury	45761-06-22 01:41 G	18435094.56	18435094.57	18435094.61	0.0089	0.0087
Earth	45775-11-26 19:41 G	18440365.20	18440365.32	18440365.48	0.0088	0.0074
Moon	45775-11-26 23:02 G	18440365.33	18440365.46	18440365.64	0.0088	0.0070 *
Moon	45776-11-28 04:34 G	18440732.49	18440732.69	18440732.90	0.0088	0.0052
Earth	45776-11-28 07:41 G	18440732.63	18440732.82	18440733.06	0.0088	0.0049 *
Earth	45777-11-30 19:41 G	18441100.08	18441100.32	18441100.58	0.0088	0.0023
Moon	45777-11-30 23:17 G	18441100.22	18441100.47	18441100.73	0.0088	0.0019 *
Moon	45778-12-03 05:17 G	18441467.47	18441467.72	18441467.98	0.0088	0.0002
Earth	45778-12-03 07:41 G	18441467.56	18441467.82	18441468.08	0.0088	0.0003 *
Earth	45779-12-05 19:12 G	18441835.07	18441835.30	18441835.56	0.0088	0.0028
Moon	45779-12-05 21:22 G	18441835.15	18441835.39	18441835.65	0.0088	0.0031 *
Moon	45780-12-07 06:14 G	18442202.57	18442202.76	18442202.98	0.0088	0.0050
Earth	45780-12-07 06:43 G	18442202.60	18442202.78	18442203.01	0.0088	0.0054 *
Moon	45781-12-09 17:46 G	18442570.15	18442570.24	18442570.33	0.0088	0.0082
Earth	45781-12-09 18:14 G	18442570.17	18442570.26	18442570.40	0.0088	0.0079 *
Venus	45804-04-16 00:14 G	18450732.46	18450732.51	18450732.61	0.0088	0.0083
Venus	45804-11-27 13:12 G	18450957.94	18450958.05	18450958.19	0.0088	0.0072

Venus	45805-07-11 01:41 G	18451183.44	18451183.57	18451183.75	0.0088	0.0061
Venus	45806-02-21 14:24 G	18451408.94	18451409.10	18451409.30	0.0088	0.0050
Venus	45806-10-05 03:36 G	18451634.45	18451634.65	18451634.85	0.0088	0.0038
Venus	45807-05-18 16:05 G	18451859.96	18451860.17	18451860.38	0.0088	0.0027
Venus	45807-12-30 04:48 G	18452085.48	18452085.70	18452085.92	0.0088	0.0016
Venus	45808-08-11 17:31 G	18452311.01	18452311.23	18452311.45	0.0088	0.0005
Venus	45809-03-25 06:00 G	18452536.53	18452536.75	18452536.97	0.0088	0.0006
Venus	45809-11-05 18:43 G	18452762.07	18452762.28	18452762.50	0.0088	0.0018
Venus	45810-06-19 07:12 G	18452987.60	18452987.80	18452988.02	0.0088	0.0029
Venus	45811-01-30 19:55 G	18453213.14	18453213.33	18453213.53	0.0088	0.0040
Venus	45811-09-13 08:38 G	18453438.68	18453438.86	18453439.04	0.0088	0.0051
Venus	45812-04-25 21:22 G	18453664.24	18453664.39	18453664.55	0.0088	0.0062
Venus	45812-12-07 09:36 G	18453889.81	18453889.90	18453890.05	0.0088	0.0074
Venus	45813-07-20 22:19 G	18454115.40	18454115.43	18454115.52	0.0088	0.0085
Mars	45826-03-09 13:12 G	18458729.74	18458730.05	18458730.38	0.0088	0.0025
Mars	45828-02-03 06:14 G	18459425.61	18459425.76	18459425.97	0.0088	0.0074
Mercury	45840-08-03 10:48 G	18463990.90	18463990.95	18463991.05	0.0089	0.0082
Mercury	45840-10-30 14:53 G	18464079.01	18464079.12	18464079.25	0.0089	0.0070
Mercury	45841-01-26 18:29 G	18464167.14	18464167.27	18464167.44	0.0089	0.0059
Mercury	45841-04-24 22:34 G	18464255.28	18464255.44	18464255.61	0.0089	0.0047
Mercury	45841-07-22 02:10 G	18464343.42	18464343.59	18464343.78	0.0089	0.0036
Mercury	45841-10-18 06:14 G	18464431.57	18464431.76	18464431.95	0.0089	0.0024
Mercury	45842-01-14 09:50 G	18464519.72	18464519.91	18464520.11	0.0089	0.0013
Mercury	45842-04-12 13:41 G	18464607.88	18464608.07	18464608.27	0.0089	0.0002
Mercury	45842-07-09 17:31 G	18464696.03	18464696.23	18464696.43	0.0089	0.0011
Mercury	45842-10-05 21:22 G	18464784.20	18464784.39	18464784.58	0.0089	0.0022
Mercury	45843-01-02 00:43 G	18464872.36	18464872.53	18464872.73	0.0089	0.0034
Mercury	45843-03-31 04:48 G	18464960.53	18464960.70	18464960.87	0.0089	0.0045
Mercury	45843-06-27 08:10 G	18465048.71	18465048.84	18465049.01	0.0089	0.0057
Mercury	45843-09-23 12:00 G	18465136.89	18465137.00	18465137.14	0.0089	0.0068

Mercury	45843-12-20 15:36 G	18465225.09	18465225.15	18465225.26	0.0089	0.0080
Earth	45859-05-30 11:17 G	18470864.82	18470864.97	18470865.14	0.0089	0.0069
Moon	45859-05-30 13:26 G	18470864.92	18470865.06	18470865.23	0.0089	0.0072 *
Moon	45860-05-31 21:50 G	18471232.19	18471232.41	18471232.63	0.0089	0.0040
Earth	45860-05-31 22:48 G	18471232.23	18471232.45	18471232.68	0.0089	0.0043 *
Earth	45861-06-03 10:19 G	18471599.68	18471599.93	18471600.19	0.0089	0.0016
Moon	45861-06-03 10:19 G	18471599.69	18471599.93	18471600.20	0.0089	0.0020 *
Earth	45862-06-05 21:36 G	18471967.16	18471967.40	18471967.67	0.0089	0.0011
Moon	45862-06-05 23:17 G	18471967.23	18471967.47	18471967.72	0.0089	0.0013 *
Moon	45863-06-08 06:43 G	18472334.55	18472334.78	18472335.04	0.0089	0.0034
Earth	45863-06-08 09:07 G	18472334.66	18472334.88	18472335.13	0.0089	0.0037 *
Earth	45864-06-09 20:38 G	18472702.19	18472702.36	18472702.55	0.0089	0.0063
Moon	45864-06-09 23:46 G	18472702.33	18472702.49	18472702.66	0.0089	0.0067 *
Moon	45865-06-12 04:48 G	18473069.64	18473069.70	18473069.78	0.0089	0.0086
Earth	45865-06-12 08:10 G	18473069.84	18473069.84	18473069.89	0.0089	0.0089
Venus	45886-06-02 12:14 G	18480729.96	18480730.01	18480730.11	0.0090	0.0085
Venus	45887-01-14 01:41 G	18480955.46	18480955.57	18480955.72	0.0090	0.0073
Venus	45887-08-27 15:07 G	18481180.98	18481181.13	18481181.30	0.0090	0.0061
Venus	45888-04-09 04:34 G	18481406.52	18481406.69	18481406.88	0.0090	0.0049
Venus	45888-11-20 17:46 G	18481632.06	18481632.24	18481632.46	0.0090	0.0038
Venus	45889-07-04 07:12 G	18481857.60	18481857.80	18481858.03	0.0090	0.0026
Venus	45890-02-14 20:38 G	18482083.15	18482083.36	18482083.59	0.0090	0.0014
Venus	45890-09-28 10:19 G	18482308.71	18482308.93	18482309.15	0.0090	0.0002
Venus	45891-05-11 23:31 G	18482534.27	18482534.48	18482534.71	0.0090	0.0011
Venus	45891-12-23 12:43 G	18482759.83	18482760.03	18482760.26	0.0090	0.0023
Venus	45892-08-05 02:24 G	18482985.40	18482985.60	18482985.80	0.0090	0.0034
Venus	45893-03-18 15:36 G	18483210.97	18483211.15	18483211.34	0.0090	0.0046
Venus	45893-10-30 04:48 G	18483436.55	18483436.70	18483436.88	0.0090	0.0058
Venus	45894-06-12 18:00 G	18483662.14	18483662.25	18483662.41	0.0090	0.0070
Venus	45895-01-24 07:41 G	18483887.74	18483887.82	18483887.92	0.0090	0.0081



Mars	45906-03-15 11:46 G	18487954.91	18487954.99	18487955.13	0.0089	0.0083
Mars	45908-02-07 14:10 G	18488648.80	18488649.09	18488649.39	0.0089	0.0009
Mercury	45920-09-02 19:55 G	18493240.33	18493240.33	18493240.35	0.0089	0.0088
Mercury	45920-11-29 21:22 G	18493328.34	18493328.39	18493328.45	0.0089	0.0080
Mercury	45921-02-25 22:34 G	18493416.37	18493416.44	18493416.52	0.0089	0.0073
Mercury	45921-05-24 23:46 G	18493504.41	18493504.49	18493504.59	0.0089	0.0065
Mercury	45921-08-21 00:58 G	18493592.45	18493592.54	18493592.65	0.0089	0.0058
Mercury	45921-11-17 02:24 G	18493680.49	18493680.60	18493680.71	0.0089	0.0050
Mercury	45922-02-13 03:22 G	18493768.54	18493768.64	18493768.77	0.0089	0.0043
Mercury	45922-05-12 04:48 G	18493856.59	18493856.70	18493856.83	0.0089	0.0035
Mercury	45922-08-08 06:14 G	18493944.63	18493944.76	18493944.88	0.0089	0.0027
Mercury	45922-11-04 07:26 G	18494032.68	18494032.81	18494032.94	0.0089	0.0019
Mercury	45923-01-31 08:38 G	18494120.73	18494120.86	18494120.99	0.0089	0.0012
Mercury	45923-04-29 09:50 G	18494208.78	18494208.91	18494209.05	0.0089	0.0005
Mercury	45923-07-26 11:17 G	18494296.84	18494296.97	18494297.10	0.0089	0.0004
Mercury	45923-10-22 12:29 G	18494384.89	18494385.02	18494385.15	0.0089	0.0011
Mercury	45924-01-18 13:41 G	18494472.94	18494473.07	18494473.20	0.0089	0.0018
Mercury	45924-04-15 14:53 G	18494561.00	18494561.12	18494561.25	0.0089	0.0026
Mercury	45924-07-12 16:05 G	18494649.06	18494649.17	18494649.30	0.0089	0.0034
Mercury	45924-10-08 17:17 G	18494737.11	18494737.22	18494737.34	0.0089	0.0042
Mercury	45925-01-04 18:43 G	18494825.17	18494825.28	18494825.39	0.0089	0.0049
Mercury	45925-04-02 19:41 G	18494913.23	18494913.32	18494913.43	0.0089	0.0057
Mercury	45925-06-29 21:07 G	18495001.30	18495001.38	18495001.47	0.0089	0.0064
Mercury	45925-09-25 22:19 G	18495089.36	18495089.43	18495089.51	0.0089	0.0072
Mercury	45925-12-22 23:46 G	18495177.43	18495177.49	18495177.55	0.0089	0.0079
Mercury	45926-03-21 00:43 G	18495265.52	18495265.53	18495265.57	0.0089	0.0087
Earth	45940-11-29 12:14 G	18500632.86	18500633.01	18500633.21	0.0088	0.0064
Moon	45940-11-29 15:22 G	18500632.97	18500633.14	18500633.34	0.0088	0.0062 *
Moon	45941-12-01 22:05 G	18501000.22	18501000.42	18501000.67	0.0088	0.0040
Earth	45941-12-02 00:29 G	18501000.30	18501000.52	18501000.77	0.0088	0.0038 *

Earth	45942-12-04 12:43 G	18501367.77	18501368.03	18501368.29	0.0088	0.0012
Moon	45942-12-04 13:12 G	18501367.79	18501368.05	18501368.32	0.0088	0.0011 *
Earth	45943-12-07 00:43 G	18501735.27	18501735.53	18501735.78	0.0088	0.0013
Moon	45943-12-07 00:58 G	18501735.29	18501735.54	18501735.79	0.0088	0.0012 *
Moon	45944-12-08 10:34 G	18502102.72	18502102.94	18502103.20	0.0088	0.0041
Earth	45944-12-08 12:14 G	18502102.79	18502103.01	18502103.25	0.0088	0.0039 *
Earth	45945-12-10 23:17 G	18502470.33	18502470.47	18502470.68	0.0088	0.0065
Moon	45945-12-11 02:53 G	18502470.45	18502470.62	18502470.80	0.0088	0.0063 *
Venus	45968-07-19 09:22 G	18510726.86	18510726.89	18510726.94	0.0088	0.0086
Venus	45969-03-01 22:05 G	18510952.32	18510952.42	18510952.54	0.0088	0.0075
Venus	45969-10-13 10:48 G	18511177.81	18511177.95	18511178.11	0.0088	0.0064
Venus	45970-05-26 23:31 G	18511403.31	18511403.48	18511403.66	0.0088	0.0053
Venus	45971-01-07 12:14 G	18511628.82	18511629.01	18511629.21	0.0088	0.0042
Venus	45971-08-21 00:43 G	18511854.34	18511854.53	18511854.75	0.0088	0.0031
Venus	45972-04-02 13:26 G	18512079.85	18512080.06	18512080.29	0.0088	0.0020
Venus	45972-11-14 02:24 G	18512305.38	18512305.60	18512305.82	0.0088	0.0009
Venus	45973-06-27 15:07 G	18512530.91	18512531.13	18512531.35	0.0088	0.0003
Venus	45974-02-08 03:36 G	18512756.44	18512756.65	18512756.87	0.0088	0.0014
Venus	45974-09-21 16:05 G	18512981.97	18512982.17	18512982.39	0.0088	0.0025
Venus	45975-05-05 04:48 G	18513207.51	18513207.70	18513207.91	0.0088	0.0036
Venus	45975-12-16 17:31 G	18513433.05	18513433.23	18513433.43	0.0088	0.0047
Venus	45976-07-29 06:00 G	18513658.60	18513658.75	18513658.93	0.0088	0.0058
Venus	45977-03-11 18:43 G	18513884.16	18513884.28	18513884.43	0.0088	0.0069
Venus	45977-10-23 07:26 G	18514109.73	18514109.81	18514109.91	0.0088	0.0080
Mars	45989-10-22 04:05 G	18518491.47	18518491.67	18518491.93	0.0088	0.0064
Mars	45991-09-17 19:12 G	18519187.02	18519187.30	18519187.63	0.0088	0.0035

# 47TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 47th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	46005-05-01 07:55	G	18524161.76	18524161.83	18524161.93	0.0088	0.0081	
Mercury	46005-07-28 12:00	G	18524249.88	18524250.00	18524250.13	0.0088	0.0069	
Mercury	46005-10-24 15:36	G	18524338.01	18524338.15	18524338.31	0.0088	0.0058	
Mercury	46006-01-20 19:41	G	18524426.15	18524426.32	18524426.49	0.0089	0.0046	
Mercury	46006-04-18 23:02	G	18524514.29	18524514.46	18524514.66	0.0089	0.0035	
Mercury	46006-07-16 03:07	G	18524602.44	18524602.63	18524602.82	0.0089	0.0023	
Mercury	46006-10-12 06:58	G	18524690.59	18524690.79	18524690.99	0.0089	0.0011	
Mercury	46007-01-08 10:48	G	18524778.75	18524778.95	18524779.15	0.0089	0.0001	
Mercury	46007-04-06 14:24	G	18524866.91	18524867.10	18524867.30	0.0089	0.0012	
Mercury	46007-07-03 18:14	G	18524955.07	18524955.26	18524955.45	0.0089	0.0023	
Mercury	46007-09-29 21:50	G	18525043.24	18525043.41	18525043.60	0.0089	0.0035	
Mercury	46007-12-27 01:41	G	18525131.41	18525131.57	18525131.74	0.0089	0.0046	
Mercury	46008-03-24 05:17	G	18525219.58	18525219.72	18525219.88	0.0089	0.0058	
Mercury	46008-06-20 09:07	G	18525307.77	18525307.88	18525308.01	0.0089	0.0069	
Mercury	46008-09-16 12:29	G	18525395.96	18525396.02	18525396.13	0.0089	0.0081	
Earth	46023-05-30 16:34	G	18530765.12	18530765.19	18530765.28	0.0089	0.0084	
Moon	46023-05-30 16:34	G	18530765.17	18530765.19	18530765.21	0.0089	0.0089	*
Moon	46024-06-01 02:53	G	18531132.42	18531132.62	18531132.84	0.0089	0.0055	
Earth	46024-06-01 03:50	G	18531132.48	18531132.66	18531132.87	0.0089	0.0059	*
Earth	46025-06-03 15:07	G	18531499.91	18531500.13	18531500.39	0.0089	0.0032	
Moon	46025-06-03 17:02	G	18531499.99	18531500.21	18531500.44	0.0089	0.0036	*

Moon	46026-06-05 23:46 G	18531867.23	18531867.49	18531867.75	0.0089	0.0002
Earth	46026-06-06 02:53 G	18531867.37	18531867.62	18531867.88	0.0089	0.0006 *
Earth	46027-06-08 14:10 G	18532234.84	18532235.09	18532235.34	0.0089	0.0021
Moon	46027-06-08 17:17 G	18532234.98	18532235.22	18532235.48	0.0089	0.0018 *
Moon	46028-06-09 21:50 G	18532602.22	18532602.41	18532602.64	0.0089	0.0051
Earth	46028-06-10 01:12 G	18532602.36	18532602.55	18532602.79	0.0089	0.0048 *
Earth	46029-06-12 12:58 G	18532969.91	18532970.04	18532970.20	0.0089	0.0074
Moon	46029-06-12 16:19 G	18532970.03	18532970.18	18532970.36	0.0089	0.0070 *
Venus	46050-09-04 19:41 G	18540724.32	18540724.32	18540724.38	0.0090	0.0089
Venus	46051-04-18 09:22 G	18540949.80	18540949.89	18540950.02	0.0090	0.0077
Venus	46051-11-29 23:02 G	18541175.31	18541175.46	18541175.61	0.0090	0.0065
Venus	46052-07-12 12:00 G	18541400.84	18541401.00	18541401.19	0.0090	0.0054
Venus	46053-02-23 01:26 G	18541626.38	18541626.56	18541626.76	0.0090	0.0042
Venus	46053-10-06 14:53 G	18541851.92	18541852.12	18541852.33	0.0090	0.0030
Venus	46054-05-20 04:05 G	18542077.47	18542077.67	18542077.90	0.0090	0.0019
Venus	46054-12-31 17:46 G	18542303.02	18542303.24	18542303.46	0.0090	0.0007
Venus	46055-08-14 06:58 G	18542528.57	18542528.79	18542529.01	0.0090	0.0005
Venus	46056-03-26 20:24 G	18542754.13	18542754.35	18542754.56	0.0090	0.0017
Venus	46056-11-07 09:36 G	18542979.70	18542979.90	18542980.11	0.0090	0.0029
Venus	46057-06-20 22:48 G	18543205.27	18543205.45	18543205.66	0.0090	0.0041
Venus	46058-02-01 12:00 G	18543430.84	18543431.00	18543431.20	0.0090	0.0053
Venus	46058-09-15 01:41 G	18543656.42	18543656.57	18543656.73	0.0090	0.0064
Venus	46059-04-28 14:53 G	18543882.02	18543882.12	18543882.25	0.0090	0.0076
Venus	46059-12-10 03:50 G	18544107.64	18544107.66	18544107.74	0.0090	0.0088
Mars	46071-09-22 10:19 G	18548411.67	18548411.93	18548412.23	0.0089	0.0029
Mars	46073-08-16 12:43 G	18549105.84	18549106.03	18549106.25	0.0089	0.0064
Mercury	46085-05-30 18:58 G	18553411.28	18553411.29	18553411.32	0.0089	0.0088
Mercury	46085-08-26 20:24 G	18553499.30	18553499.35	18553499.41	0.0089	0.0080
Mercury	46085-11-22 21:50 G	18553587.33	18553587.41	18553587.48	0.0089	0.0072
Mercury	46086-02-18 22:48 G	18553675.37	18553675.45	18553675.55	0.0089	0.0065

Mercury	46086-05-18 00:14 G	18553763.41	18553763.51	18553763.61	0.0089	0.0057
Mercury	46086-08-14 01:26 G	18553851.46	18553851.56	18553851.67	0.0089	0.0049
Mercury	46086-11-10 02:38 G	18553939.50	18553939.61	18553939.73	0.0089	0.0042
Mercury	46087-02-06 04:05 G	18554027.55	18554027.67	18554027.79	0.0089	0.0034
Mercury	46087-05-05 05:17 G	18554115.60	18554115.72	18554115.85	0.0089	0.0027
Mercury	46087-08-01 06:29 G	18554203.65	18554203.77	18554203.90	0.0089	0.0019
Mercury	46087-10-28 07:41 G	18554291.70	18554291.82	18554291.96	0.0089	0.0012
Mercury	46088-01-24 09:07 G	18554379.75	18554379.88	18554380.01	0.0089	0.0004
Mercury	46088-04-21 10:19 G	18554467.80	18554467.93	18554468.06	0.0089	0.0004
Mercury	46088-07-18 11:31 G	18554555.85	18554555.98	18554556.11	0.0089	0.0012
Mercury	46088-10-14 12:43 G	18554643.91	18554644.03	18554644.16	0.0089	0.0019
Mercury	46089-01-10 13:55 G	18554731.96	18554732.08	18554732.21	0.0089	0.0027
Mercury	46089-04-08 15:07 G	18554820.02	18554820.13	18554820.26	0.0089	0.0035
Mercury	46089-07-05 16:34 G	18554908.08	18554908.19	18554908.31	0.0089	0.0042
Mercury	46089-10-01 17:46 G	18554996.14	18554996.24	18554996.35	0.0089	0.0050
Mercury	46089-12-28 19:12 G	18555084.20	18555084.30	18555084.40	0.0089	0.0057
Mercury	46090-03-26 20:10 G	18555172.26	18555172.34	18555172.44	0.0089	0.0065
Mercury	46090-06-22 21:22 G	18555260.33	18555260.39	18555260.48	0.0089	0.0073
Mercury	46090-09-18 22:48 G	18555348.40	18555348.45	18555348.51	0.0089	0.0080
Mercury	46090-12-15 23:46 G	18555436.49	18555436.49	18555436.53	0.0089	0.0088
Moon	46104-11-29 16:05 G	18560533.06	18560533.17	18560533.32	0.0088	0.0075
Earth	46104-11-29 17:02 G	18560533.12	18560533.21	18560533.35	0.0088	0.0079 *
Earth	46105-12-02 05:02 G	18560900.52	18560900.71	18560900.93	0.0088	0.0053
Moon	46105-12-02 05:17 G	18560900.53	18560900.72	18560900.94	0.0088	0.0057 *
Earth	46106-12-04 17:17 G	18561267.98	18561268.22	18561268.47	0.0088	0.0027
Moon	46106-12-04 18:29 G	18561268.04	18561268.27	18561268.53	0.0088	0.0023 *
Moon	46107-12-07 02:38 G	18561635.35	18561635.61	18561635.89	0.0088	0.0006
Earth	46107-12-07 05:17 G	18561635.46	18561635.72	18561635.98	0.0088	0.0002 *
Earth	46108-12-08 17:02 G	18562002.96	18562003.21	18562003.46	0.0088	0.0024
Moon	46108-12-08 19:41 G	18562003.09	18562003.32	18562003.57	0.0088	0.0029 *

Moon	46109-12-11 01:12 G	18562370.33	18562370.55	18562370.78	0.0088	0.0045
Earth	46109-12-11 04:48 G	18562370.50	18562370.70	18562370.93	0.0088	0.0050 *
Earth	46110-12-13 16:19 G	18562738.08	18562738.18	18562738.34	0.0088	0.0076
Moon	46110-12-13 19:55 G	18562738.24	18562738.33	18562738.46	0.0088	0.0080 *
Venus	46133-06-04 06:29 G	18570946.70	18570946.77	18570946.89	0.0088	0.0079
Venus	46134-01-15 19:12 G	18571172.19	18571172.30	18571172.47	0.0088	0.0068
Venus	46134-08-29 07:55 G	18571397.68	18571397.83	18571398.02	0.0088	0.0057
Venus	46135-04-11 20:53 G	18571623.19	18571623.37	18571623.57	0.0088	0.0046
Venus	46135-11-23 09:36 G	18571848.71	18571848.90	18571849.12	0.0088	0.0035
Venus	46136-07-05 22:34 G	18572074.23	18572074.44	18572074.66	0.0088	0.0024
Venus	46137-02-16 11:17 G	18572299.75	18572299.97	18572300.19	0.0088	0.0012
Venus	46137-09-30 00:00 G	18572525.28	18572525.50	18572525.72	0.0088	0.0001
Venus	46138-05-13 12:29 G	18572750.81	18572751.02	18572751.25	0.0088	0.0010
Venus	46138-12-25 01:12 G	18572976.34	18572976.55	18572976.77	0.0088	0.0021
Venus	46139-08-07 13:55 G	18573201.88	18573202.08	18573202.29	0.0088	0.0032
Venus	46140-03-20 02:24 G	18573427.42	18573427.60	18573427.80	0.0088	0.0043
Venus	46140-10-31 14:53 G	18573652.97	18573653.12	18573653.32	0.0088	0.0054
Venus	46141-06-14 03:36 G	18573878.52	18573878.65	18573878.82	0.0088	0.0065
Venus	46142-01-25 16:05 G	18574104.09	18574104.17	18574104.31	0.0088	0.0076
Venus	46142-09-08 04:48 G	18574329.69	18574329.70	18574329.76	0.0088	0.0087
Mars	46155-05-02 13:26 G	18578948.73	18578949.06	18578949.39	0.0088	0.0003
Mercury	46170-01-27 05:17 G	18584332.64	18584332.72	18584332.81	0.0088	0.0079
Mercury	46170-04-25 08:53 G	18584420.76	18584420.87	18584421.01	0.0088	0.0068
Mercury	46170-07-22 12:29 G	18584508.89	18584509.02	18584509.19	0.0089	0.0057
Mercury	46170-10-18 16:34 G	18584597.03	18584597.19	18584597.37	0.0089	0.0045
Mercury	46171-01-14 20:10 G	18584685.17	18584685.34	18584685.54	0.0089	0.0034
Mercury	46171-04-13 00:14 G	18584773.32	18584773.51	18584773.70	0.0089	0.0022
Mercury	46171-07-10 03:50 G	18584861.47	18584861.66	18584861.86	0.0089	0.0011
Mercury	46171-10-06 07:41 G	18584949.63	18584949.82	18584950.02	0.0089	0.0002
Mercury	46172-01-02 11:31 G	18585037.79	18585037.98	18585038.18	0.0089	0.0013

Mercury	46172-03-30 15:07 G	18585125.95	18585126.13	18585126.33	0.0089	0.0025
Mercury	46172-06-26 18:58 G	18585214.11	18585214.29	18585214.48	0.0089	0.0036
Mercury	46172-09-22 22:34 G	18585302.29	18585302.44	18585302.62	0.0089	0.0048
Mercury	46172-12-20 02:24 G	18585390.46	18585390.60	18585390.76	0.0089	0.0059
Mercury	46173-03-18 06:00 G	18585478.65	18585478.75	18585478.89	0.0089	0.0071
Mercury	46173-06-14 09:50 G	18585566.85	18585566.91	18585567.00	0.0089	0.0082
Jupiter	46185-10-16 10:48 G	18590073.48	18590073.95	18590074.48	0.0089	0.0033
Earth	46188-06-01 10:05 G	18591032.79	18591032.92	18591033.08	0.0089	0.0074
Moon	46188-06-01 13:12 G	18591032.92	18591033.05	18591033.19	0.0089	0.0075 *
Moon	46189-06-03 18:29 G	18591400.06	18591400.27	18591400.51	0.0089	0.0046
Earth	46189-06-03 21:36 G	18591400.20	18591400.40	18591400.63	0.0089	0.0047 *
Earth	46190-06-06 08:53 G	18591767.63	18591767.87	18591768.13	0.0089	0.0021
Moon	46190-06-06 12:29 G	18591767.79	18591768.02	18591768.28	0.0089	0.0024 *
Moon	46191-06-08 17:17 G	18592134.97	18592135.22	18592135.48	0.0089	0.0007
Earth	46191-06-08 20:38 G	18592135.10	18592135.36	18592135.62	0.0089	0.0006 *
Earth	46192-06-10 07:41 G	18592502.60	18592502.82	18592503.07	0.0089	0.0032
Moon	46192-06-10 10:48 G	18592502.71	18592502.95	18592503.20	0.0089	0.0029 *
Moon	46193-06-12 16:48 G	18592870.05	18592870.20	18592870.41	0.0089	0.0062
Earth	46193-06-12 18:58 G	18592870.12	18592870.29	18592870.50	0.0089	0.0059 *
Earth	46194-06-15 06:43 G	18593237.71	18593237.78	18593237.86	0.0089	0.0085
Moon	46194-06-15 07:12 G	18593237.71	18593237.80	18593237.90	0.0089	0.0083 *
Venus	46215-07-22 17:17 G	18600944.14	18600944.22	18600944.32	0.0090	0.0081
Venus	46216-03-04 06:14 G	18601169.65	18601169.76	18601169.92	0.0090	0.0070
Venus	46216-10-15 19:55 G	18601395.17	18601395.33	18601395.51	0.0090	0.0058
Venus	46217-05-29 09:36 G	18601620.71	18601620.90	18601621.09	0.0090	0.0046
Venus	46218-01-09 22:34 G	18601846.25	18601846.44	18601846.66	0.0090	0.0035
Venus	46218-08-23 12:00 G	18602071.80	18602072.00	18602072.22	0.0090	0.0023
Venus	46219-04-06 01:26 G	18602297.35	18602297.56	18602297.78	0.0090	0.0011
Venus	46219-11-17 14:53 G	18602522.90	18602523.12	18602523.34	0.0090	0.0001
Venus	46220-06-30 04:05 G	18602748.46	18602748.67	18602748.90	0.0090	0.0013

Venus	46221-02-10 17:31 G	18602974.02	18602974.23	18602974.44	0.0090	0.0024
Venus	46221-09-24 06:43 G	18603199.59	18603199.78	18603199.99	0.0090	0.0036
Venus	46222-05-07 19:55 G	18603425.16	18603425.33	18603425.53	0.0090	0.0048
Venus	46222-12-19 09:22 G	18603650.74	18603650.89	18603651.07	0.0090	0.0059
Venus	46223-08-01 22:34 G	18603876.33	18603876.44	18603876.59	0.0090	0.0071
Venus	46224-03-14 12:14 G	18604101.93	18604102.01	18604102.10	0.0090	0.0082
Mars	46235-05-09 06:43 G	18608174.60	18608174.78	18608175.00	0.0089	0.0066
Mars	46237-04-02 10:34 G	18608868.67	18608868.94	18608869.24	0.0089	0.0028
Mercury	46250-02-26 18:14 G	18613582.24	18613582.26	18613582.29	0.0089	0.0087
Mercury	46250-05-25 19:41 G	18613670.26	18613670.32	18613670.37	0.0089	0.0079
Mercury	46250-08-21 20:38 G	18613758.30	18613758.36	18613758.45	0.0089	0.0072
Mercury	46250-11-17 22:05 G	18613846.33	18613846.42	18613846.51	0.0089	0.0064
Mercury	46251-02-13 23:17 G	18613934.38	18613934.47	18613934.58	0.0089	0.0057
Mercury	46251-05-13 00:29 G	18614022.42	18614022.52	18614022.64	0.0089	0.0049
Mercury	46251-08-09 01:55 G	18614110.47	18614110.58	18614110.70	0.0089	0.0041
Mercury	46251-11-05 03:07 G	18614198.51	18614198.63	18614198.75	0.0089	0.0034
Mercury	46252-02-01 04:19 G	18614286.56	18614286.68	18614286.81	0.0089	0.0026
Mercury	46252-04-29 05:46 G	18614374.61	18614374.74	18614374.87	0.0089	0.0018
Mercury	46252-07-26 06:58 G	18614462.66	18614462.79	18614462.92	0.0089	0.0011
Mercury	46252-10-22 08:10 G	18614550.71	18614550.84	18614550.97	0.0089	0.0004
Mercury	46253-01-18 09:22 G	18614638.77	18614638.89	18614639.03	0.0089	0.0006
Mercury	46253-04-16 10:48 G	18614726.82	18614726.95	18614727.08	0.0089	0.0012
Mercury	46253-07-13 12:00 G	18614814.87	18614815.00	18614815.13	0.0089	0.0020
Mercury	46253-10-09 13:12 G	18614902.93	18614903.05	18614903.18	0.0089	0.0028
Mercury	46254-01-05 14:38 G	18614990.99	18614991.11	18614991.23	0.0089	0.0035
Mercury	46254-04-03 15:36 G	18615079.04	18615079.15	18615079.27	0.0089	0.0043
Mercury	46254-06-30 16:48 G	18615167.10	18615167.20	18615167.32	0.0089	0.0051
Mercury	46254-09-26 18:14 G	18615255.17	18615255.26	18615255.36	0.0089	0.0058
Mercury	46254-12-23 19:26 G	18615343.23	18615343.31	18615343.40	0.0089	0.0066
Mercury	46255-03-21 20:53 G	18615431.30	18615431.37	18615431.44	0.0089	0.0073



Mercury	46255-06-17 21:50 G	18615519.37	18615519.41	18615519.47	0.0089	0.0081
Mercury	46255-09-13 23:02 G	18615607.46	18615607.46	18615607.48	0.0089	0.0089
Earth	46269-12-02 10:19 G	18620800.79	18620800.93	18620801.12	0.0088	0.0069
Moon	46269-12-02 12:43 G	18620800.88	18620801.03	18620801.19	0.0088	0.0069 *
Moon	46270-12-04 19:41 G	18621168.09	18621168.32	18621168.56	0.0088	0.0041
Earth	46270-12-04 22:34 G	18621168.23	18621168.44	18621168.68	0.0088	0.0042 *
Earth	46271-12-07 10:34 G	18621535.68	18621535.94	18621536.20	0.0088	0.0016
Moon	46271-12-07 13:55 G	18621535.84	18621536.08	18621536.34	0.0088	0.0017 *
Moon	46272-12-08 18:43 G	18621903.03	18621903.28	18621903.55	0.0088	0.0010
Earth	46272-12-08 22:19 G	18621903.18	18621903.43	18621903.70	0.0088	0.0010 *
Earth	46273-12-11 09:50 G	18622270.70	18622270.91	18622271.17	0.0088	0.0036
Moon	46273-12-11 13:26 G	18622270.84	18622271.06	18622271.32	0.0088	0.0036 *
Moon	46274-12-13 19:26 G	18622638.16	18622638.31	18622638.51	0.0088	0.0062
Earth	46274-12-13 22:05 G	18622638.25	18622638.42	18622638.62	0.0088	0.0061 *
Earth	46275-12-16 09:36 G	18623005.89	18623005.90	18623005.96	0.0088	0.0087
Moon	46275-12-16 11:31 G	18623005.98	18623005.98	18623006.02	0.0088	0.0088
Venus	46297-09-06 15:50 G	18630941.11	18630941.16	18630941.26	0.0088	0.0082
Venus	46298-04-20 04:34 G	18631166.58	18631166.69	18631166.84	0.0088	0.0071
Venus	46298-12-01 17:31 G	18631392.09	18631392.23	18631392.41	0.0088	0.0060
Venus	46299-07-15 06:29 G	18631617.59	18631617.77	18631617.96	0.0088	0.0049
Venus	46300-02-25 19:12 G	18631843.11	18631843.30	18631843.50	0.0088	0.0038
Venus	46300-10-09 07:55 G	18632068.62	18632068.83	18632069.04	0.0088	0.0027
Venus	46301-05-22 20:38 G	18632294.15	18632294.36	18632294.58	0.0088	0.0016
Venus	46302-01-03 09:22 G	18632519.67	18632519.89	18632520.12	0.0088	0.0005
Venus	46302-08-16 22:05 G	18632745.20	18632745.42	18632745.64	0.0088	0.0006
Venus	46303-03-30 10:48 G	18632970.73	18632970.95	18632971.17	0.0088	0.0017
Venus	46303-11-10 23:31 G	18633196.28	18633196.48	18633196.69	0.0088	0.0028
Venus	46304-06-23 12:00 G	18633421.82	18633422.00	18633422.21	0.0088	0.0039
Venus	46305-02-04 00:43 G	18633647.36	18633647.53	18633647.72	0.0088	0.0050
Venus	46305-09-17 13:12 G	18633872.91	18633873.05	18633873.22	0.0088	0.0061

Venus	46306-05-01 01:41 G	18634098.47	18634098.57	18634098.72	0.0088	0.0072
Venus	46306-12-12 14:53 G	18634324.05	18634324.12	18634324.20	0.0088	0.0082
Mars	46318-12-16 09:07 G	18638710.60	18638710.88	18638711.19	0.0088	0.0040
Mars	46320-11-10 21:36 G	18639406.19	18639406.40	18639406.68	0.0088	0.0059
Mercury	46334-07-29 23:02 G	18644415.45	18644415.46	18644415.49	0.0088	0.0088
Mercury	46334-10-26 02:38 G	18644503.53	18644503.61	18644503.72	0.0088	0.0077
Mercury	46335-01-22 06:43 G	18644591.65	18644591.78	18644591.92	0.0088	0.0065
Mercury	46335-04-20 10:19 G	18644679.78	18644679.93	18644680.10	0.0089	0.0054
Mercury	46335-07-17 13:55 G	18644767.92	18644768.08	18644768.27	0.0089	0.0043
Mercury	46335-10-13 17:46 G	18644856.07	18644856.24	18644856.44	0.0089	0.0031
Mercury	46336-01-09 21:36 G	18644944.21	18644944.40	18644944.60	0.0089	0.0019
Mercury	46336-04-07 01:26 G	18645032.37	18645032.56	18645032.76	0.0089	0.0008
Mercury	46336-07-04 05:17 G	18645120.52	18645120.72	18645120.92	0.0089	0.0004
Mercury	46336-09-30 08:53 G	18645208.68	18645208.87	18645209.07	0.0089	0.0016
Mercury	46336-12-27 12:43 G	18645296.85	18645297.03	18645297.22	0.0089	0.0027
Mercury	46337-03-25 16:19 G	18645385.01	18645385.18	18645385.37	0.0089	0.0039
Mercury	46337-06-21 20:10 G	18645473.19	18645473.34	18645473.51	0.0089	0.0050
Mercury	46337-09-17 23:46 G	18645561.36	18645561.49	18645561.65	0.0089	0.0062
Mercury	46337-12-15 03:36 G	18645649.55	18645649.65	18645649.78	0.0089	0.0073
Mercury	46338-03-13 07:41 G	18645737.76	18645737.82	18645737.88	0.0089	0.0084
Earth	46352-06-02 17:02 G	18650933.19	18650933.21	18650933.24	0.0089	0.0089
Earth	46353-06-05 04:05 G	18651300.50	18651300.67	18651300.87	0.0089	0.0063
Moon	46353-06-05 07:26 G	18651300.63	18651300.81	18651301.02	0.0089	0.0058 *
Moon	46354-06-07 12:29 G	18651667.81	18651668.02	18651668.25	0.0089	0.0041
Earth	46354-06-07 15:36 G	18651667.93	18651668.15	18651668.40	0.0089	0.0036 *
Earth	46355-06-10 03:22 G	18652035.39	18652035.64	18652035.89	0.0089	0.0009
Moon	46355-06-10 05:17 G	18652035.47	18652035.72	18652035.99	0.0089	0.0006 *
Moon	46356-06-11 13:26 G	18652402.82	18652403.06	18652403.31	0.0089	0.0013
Earth	46356-06-11 14:38 G	18652402.86	18652403.11	18652403.37	0.0089	0.0017 *
Earth	46357-06-14 01:55 G	18652770.37	18652770.58	18652770.81	0.0089	0.0044

Moon	46357-06-14 01:41 G	18652770.38	18652770.57	18652770.82	0.0089	0.0049 *
Earth	46358-06-16 12:58 G	18653137.91	18653138.04	18653138.22	0.0089	0.0071
Moon	46358-06-16 14:24 G	18653137.96	18653138.10	18653138.29	0.0089	0.0067 *
Venus	46379-10-25 01:26 G	18660938.51	18660938.56	18660938.65	0.0090	0.0085
Venus	46380-06-06 15:07 G	18661164.02	18661164.13	18661164.27	0.0090	0.0073
Venus	46381-01-18 04:19 G	18661389.54	18661389.68	18661389.86	0.0090	0.0062
Venus	46381-08-31 17:46 G	18661615.07	18661615.24	18661615.43	0.0090	0.0050
Venus	46382-04-14 06:58 G	18661840.61	18661840.79	18661841.00	0.0090	0.0039
Venus	46382-11-25 20:38 G	18662066.15	18662066.36	18662066.57	0.0090	0.0027
Venus	46383-07-09 09:50 G	18662291.70	18662291.91	18662292.13	0.0090	0.0016
Venus	46384-02-19 23:17 G	18662517.25	18662517.47	18662517.69	0.0090	0.0004
Venus	46384-10-02 12:29 G	18662742.80	18662743.02	18662743.24	0.0090	0.0008
Venus	46385-05-16 01:41 G	18662968.37	18662968.57	18662968.80	0.0090	0.0020
Venus	46385-12-27 15:07 G	18663193.93	18663194.13	18663194.34	0.0090	0.0031
Venus	46386-08-10 04:05 G	18663419.50	18663419.67	18663419.88	0.0090	0.0043
Venus	46387-03-23 17:46 G	18663645.07	18663645.24	18663645.42	0.0090	0.0054
Venus	46387-11-04 06:43 G	18663870.65	18663870.78	18663870.95	0.0090	0.0066
Venus	46388-06-16 20:24 G	18664096.25	18664096.35	18664096.47	0.0090	0.0077
Venus	46389-01-28 09:22 G	18664321.88	18664321.89	18664321.95	0.0090	0.0089
Mars	46400-11-16 08:53 G	18668631.58	18668631.87	18668632.17	0.0089	0.0009
Mars	46402-10-11 11:02 G	18669325.90	18669325.96	18669326.10	0.0089	0.0085
Mercury	46414-11-24 17:31 G	18673753.20	18673753.23	18673753.26	0.0089	0.0086
Mercury	46415-02-20 18:58 G	18673841.23	18673841.29	18673841.35	0.0089	0.0078
Mercury	46415-05-19 19:55 G	18673929.26	18673929.33	18673929.42	0.0089	0.0071
Mercury	46415-08-15 21:22 G	18674017.30	18674017.39	18674017.48	0.0089	0.0063
Mercury	46415-11-11 22:19 G	18674105.34	18674105.43	18674105.55	0.0089	0.0056
Mercury	46416-02-07 23:46 G	18674193.39	18674193.49	18674193.61	0.0089	0.0048
Mercury	46416-05-06 01:12 G	18674281.43	18674281.55	18674281.67	0.0089	0.0040
Mercury	46416-08-02 02:24 G	18674369.48	18674369.60	18674369.72	0.0089	0.0032
Mercury	46416-10-29 03:36 G	18674457.53	18674457.65	18674457.78	0.0089	0.0025

Mercury	46417-01-25 05:02 G	18674545.58	18674545.71	18674545.84	0.0089	0.0017
Mercury	46417-04-23 06:14 G	18674633.63	18674633.76	18674633.89	0.0089	0.0010
Mercury	46417-07-20 07:26 G	18674721.68	18674721.81	18674721.94	0.0089	0.0003
Mercury	46417-10-16 08:38 G	18674809.74	18674809.86	18674810.00	0.0089	0.0007
Mercury	46418-01-12 10:05 G	18674897.79	18674897.92	18674898.05	0.0089	0.0013
Mercury	46418-04-10 11:17 G	18674985.84	18674985.97	18674986.10	0.0089	0.0021
Mercury	46418-07-07 12:29 G	18675073.90	18675074.02	18675074.15	0.0089	0.0029
Mercury	46418-10-03 13:41 G	18675161.96	18675162.07	18675162.20	0.0089	0.0037
Mercury	46418-12-30 15:07 G	18675250.02	18675250.13	18675250.24	0.0089	0.0044
Mercury	46419-03-28 16:05 G	18675338.07	18675338.17	18675338.29	0.0089	0.0052
Mercury	46419-06-24 17:31 G	18675426.14	18675426.23	18675426.33	0.0089	0.0059
Mercury	46419-09-20 18:43 G	18675514.20	18675514.28	18675514.37	0.0089	0.0067
Mercury	46419-12-17 19:41 G	18675602.27	18675602.32	18675602.41	0.0089	0.0075
Mercury	46420-03-14 21:07 G	18675690.34	18675690.38	18675690.44	0.0089	0.0082
Moon	46433-12-02 13:55 G	18680700.96	18680701.08	18680701.20	0.0088	0.0079
Earth	46433-12-02 16:19 G	18680701.13	18680701.18	18680701.30	0.0088	0.0084 *
Earth	46434-12-05 04:19 G	18681068.51	18681068.68	18681068.90	0.0088	0.0057
Moon	46434-12-05 08:24 G	18681068.67	18681068.85	18681069.04	0.0088	0.0061 *
Moon	46435-12-07 13:26 G	18681435.82	18681436.06	18681436.31	0.0088	0.0027
Earth	46435-12-07 16:34 G	18681435.96	18681436.19	18681436.45	0.0088	0.0031 *
Earth	46436-12-09 04:34 G	18681803.44	18681803.69	18681803.96	0.0088	0.0005
Moon	46436-12-09 07:26 G	18681803.55	18681803.81	18681804.08	0.0088	0.0009 *
Moon	46437-12-11 14:10 G	18682170.86	18682171.09	18682171.34	0.0088	0.0026
Earth	46437-12-11 16:34 G	18682170.94	18682171.19	18682171.45	0.0088	0.0021 *
Earth	46438-12-14 04:19 G	18682538.47	18682538.68	18682538.90	0.0088	0.0047
Moon	46438-12-14 04:34 G	18682538.47	18682538.69	18682538.94	0.0088	0.0043 *
Earth	46439-12-16 15:50 G	18682906.03	18682906.16	18682906.32	0.0088	0.0073
Moon	46439-12-16 16:19 G	18682906.08	18682906.18	18682906.31	0.0088	0.0077 *
Venus	46461-12-10 01:26 G	18690935.53	18690935.56	18690935.65	0.0088	0.0085
Venus	46462-07-23 14:10 G	18691161.00	18691161.09	18691161.23	0.0088	0.0074

Venus	46463-03-06 03:07 G	18691386.49	18691386.63	18691386.79	0.0088	0.0063
Venus	46463-10-17 15:50 G	18691611.99	18691612.16	18691612.35	0.0088	0.0052
Venus	46464-05-30 04:48 G	18691837.51	18691837.70	18691837.89	0.0088	0.0041
Venus	46465-01-10 17:31 G	18692063.02	18692063.23	18692063.44	0.0088	0.0030
Venus	46465-08-24 06:00 G	18692288.54	18692288.75	18692288.97	0.0088	0.0020
Venus	46466-04-06 18:43 G	18692514.07	18692514.28	18692514.51	0.0088	0.0009
Venus	46466-11-18 07:41 G	18692739.60	18692739.82	18692740.04	0.0088	0.0003
Venus	46467-07-01 20:24 G	18692965.14	18692965.35	18692965.57	0.0088	0.0013
Venus	46468-02-12 08:53 G	18693190.67	18693190.87	18693191.10	0.0088	0.0025
Venus	46468-09-24 21:50 G	18693416.21	18693416.41	18693416.61	0.0088	0.0035
Venus	46469-05-08 10:19 G	18693641.75	18693641.93	18693642.13	0.0088	0.0046
Venus	46469-12-19 23:02 G	18693867.31	18693867.46	18693867.64	0.0088	0.0057
Venus	46470-08-02 11:46 G	18694092.87	18694092.99	18694093.15	0.0088	0.0068
Venus	46471-03-16 00:14 G	18694318.44	18694318.51	18694318.63	0.0088	0.0079
Mars	46482-07-30 07:41 G	18698472.69	18698472.82	18698473.00	0.0088	0.0077
Mars	46484-06-24 19:41 G	18699168.01	18699168.32	18699168.64	0.0088	0.0022
Mercury	46499-04-25 20:53 G	18704586.32	18704586.37	18704586.43	0.0088	0.0085
Mercury	46499-07-23 00:14 G	18704674.42	18704674.51	18704674.64	0.0088	0.0074
Mercury	46499-10-19 04:34 G	18704762.55	18704762.69	18704762.83	0.0088	0.0062
Mercury	46500-01-15 07:55 G	18704850.68	18704850.83	18704851.01	0.0089	0.0051
Mercury	46500-04-13 11:46 G	18704938.82	18704938.99	18704939.18	0.0089	0.0039
Mercury	46500-07-10 15:36 G	18705026.97	18705027.15	18705027.35	0.0089	0.0028
Mercury	46500-10-06 19:26 G	18705115.12	18705115.31	18705115.51	0.0089	0.0016
Mercury	46501-01-02 23:17 G	18705203.27	18705203.47	18705203.67	0.0089	0.0005
Mercury	46501-04-01 03:07 G	18705291.43	18705291.63	18705291.82	0.0089	0.0007
Mercury	46501-06-28 06:43 G	18705379.59	18705379.78	18705379.98	0.0089	0.0018
Mercury	46501-09-24 10:19 G	18705467.75	18705467.93	18705468.13	0.0089	0.0030
Mercury	46501-12-21 13:55 G	18705555.92	18705556.08	18705556.27	0.0089	0.0042
Mercury	46502-03-19 17:46 G	18705644.10	18705644.24	18705644.41	0.0089	0.0053
Mercury	46502-06-15 21:50 G	18705732.28	18705732.41	18705732.55	0.0089	0.0064

Mercury	46502-09-12 01:12 G	18705820.47	18705820.55	18705820.67	0.0089	0.0076
Mercury	46502-12-09 05:17 G	18705908.69	18705908.72	18705908.76	0.0089	0.0087
Moon	46517-06-05 09:22 G	18711200.80	18711200.89	18711201.05	0.0089	0.0078
Earth	46517-06-05 11:46 G	18711200.89	18711200.99	18711201.15	0.0089	0.0078 *
Earth	46518-06-07 23:46 G	18711568.28	18711568.49	18711568.70	0.0089	0.0050
Moon	46518-06-08 01:41 G	18711568.36	18711568.57	18711568.80	0.0089	0.0050 *
Moon	46519-06-10 10:48 G	18711935.72	18711935.95	18711936.20	0.0089	0.0024
Earth	46519-06-10 11:02 G	18711935.73	18711935.96	18711936.22	0.0089	0.0024 *
Moon	46520-06-11 21:36 G	18712303.14	18712303.40	18712303.67	0.0089	0.0004
Earth	46520-06-11 22:48 G	18712303.19	18712303.45	18712303.71	0.0089	0.0003 *
Earth	46521-06-14 09:50 G	18712670.68	18712670.91	18712671.16	0.0089	0.0030
Moon	46521-06-14 11:46 G	18712670.75	18712670.99	18712671.22	0.0089	0.0029 *
Moon	46522-06-16 17:46 G	18713038.07	18713038.24	18713038.47	0.0089	0.0057
Earth	46522-06-16 21:07 G	18713038.20	18713038.38	18713038.60	0.0089	0.0056 *
Earth	46523-06-19 08:38 G	18713405.78	18713405.86	18713405.97	0.0089	0.0083
Moon	46523-06-19 11:46 G	18713405.92	18713405.99	18713406.11	0.0089	0.0083 *
Venus	46544-01-27 10:34 G	18720932.91	18720932.94	18720933.00	0.0090	0.0088
Venus	46544-09-08 23:46 G	18721158.40	18721158.49	18721158.63	0.0090	0.0077
Venus	46545-04-22 13:26 G	18721383.92	18721384.06	18721384.22	0.0090	0.0065
Venus	46545-12-04 02:38 G	18721609.46	18721609.61	18721609.81	0.0090	0.0054
Venus	46546-07-17 16:19 G	18721835.00	18721835.18	18721835.38	0.0090	0.0042
Venus	46547-02-28 05:31 G	18722060.54	18722060.73	18722060.95	0.0090	0.0031
Venus	46547-10-11 19:12 G	18722286.08	18722286.30	18722286.51	0.0090	0.0019
Venus	46548-05-24 08:24 G	18722511.64	18722511.85	18722512.08	0.0090	0.0008
Venus	46549-01-04 21:50 G	18722737.19	18722737.41	18722737.63	0.0090	0.0004
Venus	46549-08-18 11:02 G	18722962.75	18722962.96	18722963.18	0.0090	0.0016
Venus	46550-04-01 00:14 G	18723188.31	18723188.51	18723188.73	0.0090	0.0027
Venus	46550-11-12 13:26 G	18723413.87	18723414.06	18723414.27	0.0090	0.0039
Venus	46551-06-26 02:53 G	18723639.45	18723639.62	18723639.81	0.0090	0.0050
Venus	46552-02-06 15:50 G	18723865.02	18723865.16	18723865.34	0.0090	0.0062

Venus	46552-09-19 05:17 G	18724090.61	18724090.72	18724090.86	0.0090	0.0073
Venus	46553-05-02 18:43 G	18724316.22	18724316.28	18724316.36	0.0090	0.0084
Mars	46564-07-02 07:41 G	18728394.58	18728394.82	18728395.09	0.0089	0.0046
Mars	46566-05-27 12:43 G	18729088.79	18729089.03	18729089.29	0.0089	0.0049
Mercury	46579-08-22 17:02 G	18733924.17	18733924.21	18733924.25	0.0089	0.0084
Mercury	46579-11-18 18:00 G	18734012.20	18734012.25	18734012.33	0.0089	0.0077
Mercury	46580-02-14 19:26 G	18734100.23	18734100.31	18734100.39	0.0089	0.0069
Mercury	46580-05-12 20:38 G	18734188.27	18734188.36	18734188.46	0.0089	0.0062
Mercury	46580-08-08 21:50 G	18734276.32	18734276.41	18734276.52	0.0089	0.0054
Mercury	46580-11-04 23:17 G	18734364.36	18734364.47	18734364.58	0.0089	0.0046
Mercury	46581-02-01 00:29 G	18734452.41	18734452.52	18734452.64	0.0089	0.0039
Mercury	46581-04-30 01:41 G	18734540.46	18734540.57	18734540.70	0.0089	0.0031
Mercury	46581-07-27 03:07 G	18734628.50	18734628.63	18734628.76	0.0089	0.0023
Mercury	46581-10-23 04:19 G	18734716.56	18734716.68	18734716.81	0.0089	0.0016
Mercury	46582-01-19 05:46 G	18734804.61	18734804.74	18734804.87	0.0089	0.0008
Mercury	46582-04-17 06:58 G	18734892.66	18734892.79	18734892.92	0.0089	0.0001
Mercury	46582-07-14 08:10 G	18734980.71	18734980.84	18734980.97	0.0089	0.0008
Mercury	46582-10-10 09:22 G	18735068.77	18735068.89	18735069.02	0.0089	0.0016
Mercury	46583-01-06 10:48 G	18735156.82	18735156.95	18735157.07	0.0089	0.0023
Mercury	46583-04-04 11:46 G	18735244.88	18735244.99	18735245.12	0.0089	0.0031
Mercury	46583-07-01 13:12 G	18735332.93	18735333.05	18735333.17	0.0089	0.0038
Mercury	46583-09-27 14:24 G	18735420.99	18735421.10	18735421.22	0.0089	0.0046
Mercury	46583-12-24 15:36 G	18735509.05	18735509.15	18735509.26	0.0089	0.0054
Mercury	46584-03-21 17:02 G	18735597.12	18735597.21	18735597.30	0.0089	0.0061
Mercury	46584-06-17 18:00 G	18735685.18	18735685.25	18735685.34	0.0089	0.0069
Mercury	46584-09-13 19:26 G	18735773.25	18735773.31	18735773.38	0.0089	0.0076
Mercury	46584-12-10 20:38 G	18735861.33	18735861.36	18735861.41	0.0089	0.0084
Moon	46598-12-05 07:55 G	18740968.71	18740968.83	18740968.99	0.0088	0.0073
Earth	46598-12-05 11:17 G	18740968.83	18740968.97	18740969.13	0.0088	0.0071 *
Earth	46599-12-07 23:02 G	18741336.25	18741336.46	18741336.70	0.0088	0.0046

Moon	46599-12-08 01:12 G	18741336.34	18741336.55	18741336.81	0.0088	0.0044 *
Moon	46600-12-10 10:05 G	18741703.69	18741703.92	18741704.18	0.0088	0.0022
Earth	46600-12-10 11:02 G	18741703.72	18741703.96	18741704.23	0.0088	0.0020 *
Earth	46601-12-12 23:02 G	18742071.21	18742071.46	18742071.73	0.0088	0.0008
Moon	46601-12-12 23:31 G	18742071.21	18742071.48	18742071.75	0.0088	0.0009 *
Earth	46602-12-15 10:48 G	18742438.72	18742438.95	18742439.20	0.0088	0.0033
Moon	46602-12-15 12:00 G	18742438.78	18742439.00	18742439.25	0.0088	0.0032 *
Moon	46603-12-17 19:55 G	18742806.16	18742806.33	18742806.54	0.0088	0.0062
Earth	46603-12-17 22:34 G	18742806.26	18742806.44	18742806.64	0.0088	0.0059 *
Earth	46604-12-19 10:19 G	18743173.88	18743173.93	18743174.01	0.0088	0.0085
Moon	46604-12-19 13:12 G	18743174.00	18743174.05	18743174.14	0.0088	0.0084 *
Venus	46626-03-15 11:46 G	18750929.98	18750929.99	18750930.04	0.0088	0.0087
Venus	46626-10-27 00:43 G	18751155.43	18751155.53	18751155.65	0.0088	0.0076
Venus	46627-06-09 13:12 G	18751380.92	18751381.05	18751381.22	0.0088	0.0066
Venus	46628-01-21 01:55 G	18751606.42	18751606.58	18751606.77	0.0088	0.0055
Venus	46628-09-02 14:38 G	18751831.93	18751832.11	18751832.31	0.0088	0.0044
Venus	46629-04-16 03:36 G	18752057.44	18752057.65	18752057.85	0.0088	0.0033
Venus	46629-11-27 16:05 G	18752282.97	18752283.17	18752283.40	0.0088	0.0023
Venus	46630-07-11 05:02 G	18752508.49	18752508.71	18752508.93	0.0088	0.0012
Venus	46631-02-21 17:46 G	18752734.02	18752734.24	18752734.46	0.0088	0.0001
Venus	46631-10-05 06:14 G	18752959.55	18752959.76	18752959.99	0.0088	0.0010
Venus	46632-05-17 18:58 G	18753185.08	18753185.29	18753185.51	0.0088	0.0021
Venus	46632-12-29 07:41 G	18753410.62	18753410.82	18753411.04	0.0088	0.0032
Venus	46633-08-11 20:24 G	18753636.17	18753636.35	18753636.55	0.0088	0.0043
Venus	46634-03-25 08:53 G	18753861.72	18753861.87	18753862.06	0.0088	0.0054
Venus	46634-11-05 21:50 G	18754087.27	18754087.41	18754087.57	0.0088	0.0064
Venus	46635-06-19 10:19 G	18754312.84	18754312.93	18754313.07	0.0088	0.0075
Venus	46636-01-30 23:02 G	18754538.44	18754538.46	18754538.53	0.0088	0.0086
Mars	46648-02-08 19:41 G	18758930.01	18758930.32	18758930.66	0.0088	0.0015
Mars	46650-01-04 07:12 G	18759625.76	18759625.80	18759625.89	0.0088	0.0086



Mercury	46664-01-22 18:58 G	18764757.22	18764757.29	18764757.38	0.0088	0.0081
Mercury	46664-04-19 22:34 G	18764845.33	18764845.44	18764845.58	0.0089	0.0070
Mercury	46664-07-17 02:10 G	18764933.46	18764933.59	18764933.76	0.0089	0.0059
Mercury	46664-10-13 06:14 G	18765021.60	18765021.76	18765021.93	0.0089	0.0047
Mercury	46665-01-09 09:50 G	18765109.74	18765109.91	18765110.10	0.0089	0.0036
Mercury	46665-04-07 13:55 G	18765197.89	18765198.08	18765198.27	0.0089	0.0024
Mercury	46665-07-04 17:31 G	18765286.04	18765286.23	18765286.43	0.0089	0.0013
Mercury	46665-09-30 21:22 G	18765374.19	18765374.39	18765374.59	0.0089	0.0001
Mercury	46665-12-28 01:12 G	18765462.35	18765462.55	18765462.75	0.0089	0.0011
Mercury	46666-03-26 04:34 G	18765550.51	18765550.69	18765550.90	0.0089	0.0023
Mercury	46666-06-22 08:24 G	18765638.68	18765638.85	18765639.04	0.0089	0.0034
Mercury	46666-09-18 12:14 G	18765726.85	18765727.01	18765727.19	0.0089	0.0045
Mercury	46666-12-15 15:50 G	18765815.02	18765815.16	18765815.33	0.0089	0.0057
Mercury	46667-03-13 19:41 G	18765903.21	18765903.32	18765903.46	0.0089	0.0068
Mercury	46667-06-09 23:17 G	18765991.40	18765991.47	18765991.57	0.0089	0.0080
Earth	46682-06-08 07:41 G	18771468.67	18771468.82	18771469.02	0.0089	0.0065
Moon	46682-06-08 07:55 G	18771468.67	18771468.83	18771469.03	0.0089	0.0061 *
Moon	46683-06-10 17:46 G	18771836.03	18771836.24	18771836.49	0.0089	0.0043
Earth	46683-06-10 19:26 G	18771836.10	18771836.31	18771836.56	0.0089	0.0039 *
Earth	46684-06-12 07:12 G	18772203.55	18772203.80	18772204.05	0.0089	0.0012
Moon	46684-06-12 09:50 G	18772203.66	18772203.91	18772204.16	0.0089	0.0007 *
Moon	46685-06-14 15:36 G	18772570.90	18772571.15	18772571.41	0.0089	0.0011
Earth	46685-06-14 18:43 G	18772571.03	18772571.28	18772571.54	0.0089	0.0015 *
Earth	46686-06-17 05:46 G	18772938.54	18772938.74	18772938.99	0.0089	0.0043
Moon	46686-06-17 09:36 G	18772938.70	18772938.90	18772939.13	0.0089	0.0047 *
Moon	46687-06-19 14:10 G	18773305.93	18773306.09	18773306.28	0.0089	0.0064
Earth	46687-06-19 17:02 G	18773306.08	18773306.21	18773306.40	0.0089	0.0070 *
Venus	46708-12-13 09:07 G	18781152.81	18781152.88	18781153.01	0.0090	0.0080
Venus	46709-07-26 22:48 G	18781378.32	18781378.45	18781378.60	0.0090	0.0068
Venus	46710-03-09 12:00 G	18781603.85	18781604.00	18781604.19	0.0090	0.0057

Venus	46710-10-21 01:26 G	18781829.39	18781829.56	18781829.77	0.0090	0.0046
Venus	46711-06-03 15:07 G	18782054.94	18782055.13	18782055.34	0.0090	0.0034
Venus	46712-01-15 04:34 G	18782280.48	18782280.69	18782280.91	0.0090	0.0022
Venus	46712-08-27 18:00 G	18782506.03	18782506.25	18782506.47	0.0090	0.0011
Venus	46713-04-10 07:12 G	18782731.58	18782731.80	18782732.02	0.0090	0.0002
Venus	46713-11-21 20:38 G	18782957.14	18782957.36	18782957.58	0.0090	0.0012
Venus	46714-07-05 09:50 G	18783182.71	18783182.91	18783183.13	0.0090	0.0024
Venus	46715-02-15 23:02 G	18783408.27	18783408.46	18783408.67	0.0090	0.0035
Venus	46715-09-29 12:29 G	18783633.84	18783634.02	18783634.21	0.0090	0.0046
Venus	46716-05-12 01:26 G	18783859.41	18783859.56	18783859.75	0.0090	0.0058
Venus	46716-12-23 14:53 G	18784085.00	18784085.12	18784085.27	0.0090	0.0069
Venus	46717-08-06 04:19 G	18784310.59	18784310.68	18784310.79	0.0090	0.0080
Mars	46728-02-17 05:46 G	18788157.65	18788157.74	18788157.89	0.0089	0.0082
Mars	46730-01-11 13:26 G	18788851.76	18788852.06	18788852.35	0.0089	0.0014
Mercury	46744-05-20 16:34 G	18794095.14	18794095.19	18794095.23	0.0089	0.0082
Mercury	46744-08-16 17:31 G	18794183.17	18794183.23	18794183.31	0.0089	0.0075
Mercury	46744-11-12 18:58 G	18794271.21	18794271.29	18794271.38	0.0089	0.0067
Mercury	46745-02-08 20:10 G	18794359.25	18794359.34	18794359.44	0.0089	0.0060
Mercury	46745-05-07 21:22 G	18794447.29	18794447.39	18794447.50	0.0089	0.0052
Mercury	46745-08-03 22:48 G	18794535.34	18794535.45	18794535.56	0.0089	0.0044
Mercury	46745-10-31 00:00 G	18794623.39	18794623.50	18794623.62	0.0089	0.0037
Mercury	46746-01-27 01:12 G	18794711.43	18794711.55	18794711.68	0.0089	0.0029
Mercury	46746-04-25 02:38 G	18794799.48	18794799.61	18794799.74	0.0089	0.0021
Mercury	46746-07-22 03:50 G	18794887.53	18794887.66	18794887.79	0.0089	0.0014
Mercury	46746-10-18 05:02 G	18794975.58	18794975.71	18794975.85	0.0089	0.0007
Mercury	46747-01-14 06:29 G	18795063.64	18795063.77	18795063.90	0.0089	0.0002
Mercury	46747-04-12 07:41 G	18795151.69	18795151.82	18795151.95	0.0089	0.0009
Mercury	46747-07-09 08:53 G	18795239.75	18795239.87	18795240.00	0.0089	0.0017
Mercury	46747-10-05 10:05 G	18795327.80	18795327.92	18795328.05	0.0089	0.0025
Mercury	46748-01-01 11:17 G	18795415.86	18795415.97	18795416.10	0.0089	0.0033

Mercury	46748-03-29 12:43 G	18795503.92	18795504.03	18795504.15	0.0089	0.0040
Mercury	46748-06-25 13:55 G	18795591.97	18795592.08	18795592.19	0.0089	0.0048
Mercury	46748-09-21 15:07 G	18795680.03	18795680.13	18795680.24	0.0089	0.0055
Mercury	46748-12-18 16:19 G	18795768.10	18795768.18	18795768.28	0.0089	0.0063
Mercury	46749-03-16 17:31 G	18795856.16	18795856.23	18795856.32	0.0089	0.0071
Mercury	46749-06-12 18:58 G	18795944.23	18795944.29	18795944.35	0.0089	0.0078
Mercury	46749-09-08 20:10 G	18796032.32	18796032.34	18796032.38	0.0089	0.0086
Jupiter	46760-10-22 03:50 G	18800093.16	18800093.66	18800094.20	0.0088	0.0031
Earth	46762-12-06 18:43 G	18800869.24	18800869.28	18800869.36	0.0088	0.0086
Moon	46762-12-06 20:10 G	18800869.28	18800869.34	18800869.47	0.0088	0.0083 *
Moon	46763-12-09 06:14 G	18801236.60	18801236.76	18801236.95	0.0088	0.0063
Earth	46763-12-09 06:43 G	18801236.61	18801236.78	18801236.99	0.0088	0.0060 *
Moon	46764-12-10 17:46 G	18801604.00	18801604.24	18801604.51	0.0088	0.0030
Earth	46764-12-10 18:58 G	18801604.06	18801604.29	18801604.54	0.0088	0.0033 *
Earth	46765-12-13 06:58 G	18801971.53	18801971.79	18801972.05	0.0088	0.0007
Moon	46765-12-13 08:38 G	18801971.61	18801971.86	18801972.11	0.0088	0.0010 *
Moon	46766-12-15 15:50 G	18802338.91	18802339.16	18802339.42	0.0088	0.0023
Earth	46766-12-15 18:58 G	18802339.04	18802339.29	18802339.54	0.0088	0.0019 *
Earth	46767-12-18 06:14 G	18802706.56	18802706.76	18802707.00	0.0088	0.0046
Moon	46767-12-18 10:05 G	18802706.70	18802706.92	18802707.15	0.0088	0.0042 *
Moon	46768-12-19 14:24 G	18803074.00	18803074.10	18803074.26	0.0088	0.0076
Earth	46768-12-19 18:00 G	18803074.13	18803074.25	18803074.42	0.0088	0.0072 *
Venus	46791-01-29 11:17 G	18811149.88	18811149.97	18811150.07	0.0088	0.0078
Venus	46791-09-11 23:31 G	18811375.36	18811375.48	18811375.64	0.0088	0.0068
Venus	46792-04-24 12:29 G	18811600.86	18811601.02	18811601.20	0.0088	0.0057
Venus	46792-12-06 01:12 G	18811826.38	18811826.55	18811826.75	0.0088	0.0047
Venus	46793-07-19 13:55 G	18812051.89	18812052.08	18812052.29	0.0088	0.0036
Venus	46794-03-02 02:53 G	18812277.41	18812277.62	18812277.83	0.0088	0.0025
Venus	46794-10-13 15:22 G	18812502.93	18812503.14	18812503.36	0.0088	0.0014
Venus	46795-05-27 04:05 G	18812728.45	18812728.67	18812728.89	0.0088	0.0004

Venus	46796-01-07 16:48 G	18812953.98	18812954.20	18812954.43	0.0088	0.0007
Venus	46796-08-20 05:31 G	18813179.52	18813179.73	18813179.95	0.0088	0.0018
Venus	46797-04-02 18:00 G	18813405.05	18813405.25	18813405.47	0.0088	0.0029
Venus	46797-11-14 06:43 G	18813630.60	18813630.78	18813630.99	0.0088	0.0040
Venus	46798-06-27 19:41 G	18813856.15	18813856.32	18813856.51	0.0088	0.0050
Venus	46799-02-08 08:10 G	18814081.70	18814081.84	18814082.02	0.0088	0.0061
Venus	46799-09-21 20:38 G	18814307.26	18814307.36	18814307.51	0.0088	0.0072
Venus	46800-05-04 09:50 G	18814532.84	18814532.91	18814532.99	0.0088	0.0082
Mars	46811-09-23 23:31 G	18818692.21	18818692.48	18818692.75	0.0088	0.0050
Mars	46813-08-19 08:53 G	18819387.60	18819387.87	18819388.14	0.0088	0.0049
Mercury	46828-07-23 13:41 G	18824840.05	18824840.07	18824840.09	0.0088	0.0088
Mercury	46828-10-19 17:02 G	18824928.13	18824928.21	18824928.33	0.0088	0.0077
Mercury	46829-01-15 20:38 G	18825016.25	18825016.36	18825016.52	0.0088	0.0066
Mercury	46829-04-14 00:43 G	18825104.38	18825104.53	18825104.70	0.0089	0.0054
Mercury	46829-07-11 04:19 G	18825192.52	18825192.68	18825192.87	0.0089	0.0043
Mercury	46829-10-07 08:24 G	18825280.67	18825280.85	18825281.04	0.0089	0.0031
Mercury	46830-01-03 12:00 G	18825368.82	18825369.00	18825369.20	0.0089	0.0020
Mercury	46830-04-01 16:05 G	18825456.97	18825457.17	18825457.36	0.0089	0.0008
Mercury	46830-06-28 19:41 G	18825545.12	18825545.32	18825545.52	0.0089	0.0004
Mercury	46830-09-24 23:17 G	18825633.28	18825633.47	18825633.68	0.0089	0.0016
Mercury	46830-12-22 03:07 G	18825721.45	18825721.63	18825721.83	0.0089	0.0027
Mercury	46831-03-20 06:43 G	18825809.61	18825809.78	18825809.97	0.0089	0.0038
Mercury	46831-06-16 10:34 G	18825897.79	18825897.94	18825898.11	0.0089	0.0050
Mercury	46831-09-12 14:24 G	18825985.96	18825986.10	18825986.25	0.0089	0.0061
Mercury	46831-12-09 18:00 G	18826074.15	18826074.25	18826074.38	0.0089	0.0073
Mercury	46832-03-06 21:50 G	18826162.36	18826162.41	18826162.48	0.0089	0.0084
Moon	46846-06-08 15:22 G	18831369.03	18831369.14	18831369.29	0.0089	0.0077
Earth	46846-06-08 17:17 G	18831369.13	18831369.22	18831369.37	0.0089	0.0079 *
Earth	46847-06-11 04:48 G	18831736.51	18831736.70	18831736.92	0.0089	0.0052
Moon	46847-06-11 07:41 G	18831736.63	18831736.82	18831737.03	0.0089	0.0053 *

Moon	46848-06-12 12:43 G	18832103.79	18832104.03	18832104.29	0.0089	0.0024
Earth	46848-06-12 16:34 G	18832103.95	18832104.19	18832104.44	0.0089	0.0025 *
Earth	46849-06-15 03:50 G	18832471.41	18832471.66	18832471.92	0.0089	0.0002
Moon	46849-06-15 07:26 G	18832471.55	18832471.81	18832472.06	0.0089	0.0001 *
Moon	46850-06-17 11:46 G	18832838.77	18832838.99	18832839.24	0.0089	0.0029
Earth	46850-06-17 15:07 G	18832838.90	18832839.13	18832839.39	0.0089	0.0029 *
Earth	46851-06-20 02:24 G	18833206.42	18833206.60	18833206.82	0.0089	0.0056
Moon	46851-06-20 05:17 G	18833206.51	18833206.72	18833206.93	0.0089	0.0054 *
Moon	46852-06-21 12:43 G	18833573.95	18833574.03	18833574.14	0.0089	0.0083
Earth	46852-06-21 14:24 G	18833574.00	18833574.10	18833574.20	0.0089	0.0082 *
Venus	46873-03-16 19:26 G	18841147.24	18841147.31	18841147.41	0.0090	0.0082
Venus	46873-10-28 08:38 G	18841372.75	18841372.86	18841373.02	0.0090	0.0071
Venus	46874-06-10 22:05 G	18841598.28	18841598.42	18841598.61	0.0090	0.0060
Venus	46875-01-22 12:00 G	18841823.82	18841824.00	18841824.19	0.0090	0.0048
Venus	46875-09-05 01:12 G	18842049.36	18842049.55	18842049.76	0.0090	0.0037
Venus	46876-04-17 14:24 G	18842274.91	18842275.10	18842275.33	0.0090	0.0026
Venus	46876-11-29 04:05 G	18842500.46	18842500.67	18842500.89	0.0090	0.0014
Venus	46877-07-12 17:31 G	18842726.01	18842726.23	18842726.45	0.0090	0.0003
Venus	46878-02-23 06:58 G	18842951.57	18842951.79	18842952.01	0.0090	0.0009
Venus	46878-10-06 19:55 G	18843177.13	18843177.33	18843177.56	0.0090	0.0021
Venus	46879-05-20 09:22 G	18843402.70	18843402.89	18843403.11	0.0090	0.0032
Venus	46879-12-31 22:48 G	18843628.26	18843628.45	18843628.65	0.0090	0.0043
Venus	46880-08-13 12:00 G	18843853.83	18843854.00	18843854.18	0.0090	0.0054
Venus	46881-03-27 00:58 G	18844079.41	18844079.54	18844079.71	0.0090	0.0066
Venus	46881-11-07 14:10 G	18844305.00	18844305.09	18844305.23	0.0090	0.0077
Venus	46882-06-21 03:36 G	18844530.63	18844530.65	18844530.72	0.0090	0.0088
Mars	46893-08-26 13:26 G	18848614.78	18848615.06	18848615.37	0.0089	0.0021
Mars	46895-07-21 19:26 G	18849309.18	18849309.31	18849309.51	0.0089	0.0075
Mercury	46908-11-19 14:53 G	18854178.10	18854178.12	18854178.15	0.0089	0.0087
Mercury	46909-02-15 15:50 G	18854266.12	18854266.16	18854266.23	0.0089	0.0080

Mercury	46909-05-14 17:17 G	18854354.16	18854354.22	18854354.31	0.0089	0.0072
Mercury	46909-08-10 18:43 G	18854442.19	18854442.28	18854442.37	0.0089	0.0064
Mercury	46909-11-06 19:55 G	18854530.24	18854530.33	18854530.43	0.0089	0.0057
Mercury	46910-02-02 21:07 G	18854618.28	18854618.38	18854618.50	0.0089	0.0049
Mercury	46910-05-01 22:34 G	18854706.33	18854706.44	18854706.56	0.0089	0.0041
Mercury	46910-07-28 23:46 G	18854794.37	18854794.49	18854794.61	0.0089	0.0034
Mercury	46910-10-25 00:58 G	18854882.42	18854882.54	18854882.67	0.0089	0.0026
Mercury	46911-01-21 02:10 G	18854970.47	18854970.59	18854970.73	0.0089	0.0019
Mercury	46911-04-19 03:36 G	18855058.52	18855058.65	18855058.78	0.0089	0.0011
Mercury	46911-07-16 04:48 G	18855146.57	18855146.70	18855146.83	0.0089	0.0004
Mercury	46911-10-12 06:00 G	18855234.62	18855234.75	18855234.89	0.0089	0.0006
Mercury	46912-01-08 07:12 G	18855322.68	18855322.80	18855322.94	0.0089	0.0013
Mercury	46912-04-05 08:38 G	18855410.73	18855410.86	18855410.99	0.0089	0.0020
Mercury	46912-07-02 09:50 G	18855498.79	18855498.91	18855499.04	0.0089	0.0028
Mercury	46912-09-28 11:02 G	18855586.85	18855586.96	18855587.09	0.0089	0.0035
Mercury	46912-12-25 12:14 G	18855674.90	18855675.01	18855675.13	0.0089	0.0043
Mercury	46913-03-23 13:26 G	18855762.96	18855763.06	18855763.18	0.0089	0.0051
Mercury	46913-06-19 14:53 G	18855851.03	18855851.12	18855851.22	0.0089	0.0058
Mercury	46913-09-15 16:05 G	18855939.09	18855939.17	18855939.26	0.0089	0.0066
Mercury	46913-12-12 17:02 G	18856027.16	18856027.21	18856027.30	0.0089	0.0074
Mercury	46914-03-10 18:29 G	18856115.23	18856115.27	18856115.33	0.0089	0.0081
Mercury	46914-06-06 19:55 G	18856203.33	18856203.33	18856203.34	0.0089	0.0089
Moon	46927-12-09 13:26 G	18861136.94	18861137.06	18861137.20	0.0088	0.0077
Earth	46927-12-09 14:38 G	18861136.98	18861137.11	18861137.27	0.0088	0.0073 *
Earth	46928-12-11 02:24 G	18861504.40	18861504.60	18861504.84	0.0088	0.0048
Moon	46928-12-11 05:31 G	18861504.52	18861504.73	18861504.96	0.0088	0.0043 *
Moon	46929-12-13 11:31 G	18861871.74	18861871.98	18861872.25	0.0088	0.0024
Earth	46929-12-13 15:07 G	18861871.88	18861872.13	18861872.38	0.0088	0.0021 *
Earth	46930-12-16 02:53 G	18862239.37	18862239.62	18862239.89	0.0088	0.0006
Moon	46930-12-16 06:29 G	18862239.52	18862239.77	18862240.04	0.0088	0.0009 *

Moon	46931-12-18 11:02 G	18862606.74	18862606.96	18862607.23	0.0088	0.0030
Earth	46931-12-18 14:53 G	18862606.88	18862607.12	18862607.37	0.0088	0.0032 *
Earth	46932-12-20 02:38 G	18862974.42	18862974.61	18862974.81	0.0088	0.0058
Moon	46932-12-20 05:17 G	18862974.55	18862974.72	18862974.93	0.0088	0.0061 *
Moon	46933-12-22 11:46 G	18863341.92	18863341.99	18863342.10	0.0088	0.0082
Earth	46933-12-22 13:55 G	18863342.04	18863342.08	18863342.18	0.0088	0.0085 *
Venus	46955-05-03 22:05 G	18871144.34	18871144.42	18871144.51	0.0088	0.0080
Venus	46955-12-15 10:34 G	18871369.82	18871369.94	18871370.09	0.0088	0.0070
Venus	46956-07-27 23:31 G	18871595.32	18871595.48	18871595.65	0.0088	0.0059
Venus	46957-03-10 12:00 G	18871820.83	18871821.00	18871821.19	0.0088	0.0049
Venus	46957-10-22 00:43 G	18872046.34	18872046.53	18872046.74	0.0088	0.0038
Venus	46958-06-04 13:26 G	18872271.86	18872272.06	18872272.28	0.0088	0.0028
Venus	46959-01-16 02:10 G	18872497.38	18872497.59	18872497.81	0.0088	0.0017
Venus	46959-08-29 14:53 G	18872722.90	18872723.12	18872723.34	0.0088	0.0006
Venus	46960-04-11 03:36 G	18872948.43	18872948.65	18872948.87	0.0088	0.0004
Venus	46960-11-22 16:19 G	18873173.97	18873174.18	18873174.40	0.0088	0.0015
Venus	46961-07-06 04:48 G	18873399.50	18873399.70	18873399.92	0.0088	0.0026
Venus	46962-02-16 17:17 G	18873625.04	18873625.22	18873625.44	0.0088	0.0037
Venus	46962-09-30 06:14 G	18873850.58	18873850.76	18873850.95	0.0088	0.0047
Venus	46963-05-13 18:43 G	18874076.13	18874076.28	18874076.46	0.0088	0.0058
Venus	46963-12-25 07:55 G	18874301.70	18874301.83	18874301.97	0.0088	0.0068
Venus	46964-08-06 20:24 G	18874527.27	18874527.35	18874527.46	0.0088	0.0079
Mars	46975-05-09 04:48 G	18878454.67	18878454.70	18878454.81	0.0088	0.0086
Mars	46977-04-03 13:41 G	18879149.75	18879150.07	18879150.40	0.0088	0.0014
Mercury	46993-04-20 11:31 G	18885010.94	18885010.98	18885011.07	0.0088	0.0084
Mercury	46993-07-17 15:36 G	18885099.05	18885099.15	18885099.28	0.0088	0.0072
Mercury	46993-10-13 19:12 G	18885187.18	18885187.30	18885187.46	0.0089	0.0061
Mercury	46994-01-09 23:17 G	18885275.31	18885275.47	18885275.64	0.0089	0.0049
Mercury	46994-04-08 02:53 G	18885363.45	18885363.62	18885363.81	0.0089	0.0038
Mercury	46994-07-05 06:58 G	18885451.60	18885451.79	18885451.98	0.0089	0.0026

Mercury	46994-10-01 10:34 G	18885539.75	18885539.94	18885540.14	0.0089	0.0015
Mercury	46994-12-28 14:24 G	18885627.90	18885628.10	18885628.30	0.0089	0.0003
Mercury	46995-03-26 18:14 G	18885716.06	18885716.26	18885716.46	0.0089	0.0008
Mercury	46995-06-22 22:05 G	18885804.22	18885804.42	18885804.61	0.0089	0.0020
Mercury	46995-09-19 01:26 G	18885892.39	18885892.56	18885892.76	0.0089	0.0032
Mercury	46995-12-16 05:31 G	18885980.56	18885980.73	18885980.90	0.0089	0.0043
Mercury	46996-03-13 08:53 G	18886068.73	18886068.87	18886069.04	0.0089	0.0055
Mercury	46996-06-09 12:58 G	18886156.91	18886157.04	18886157.17	0.0089	0.0066
Mercury	46996-09-05 16:19 G	18886245.11	18886245.18	18886245.29	0.0089	0.0078

# 48TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 48th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	47011-06-12 11:46 G		18891636.82	18891636.99	18891637.19	0.0089	0.0062	
Earth	47011-06-12 15:07 G		18891636.98	18891637.13	18891637.32	0.0089	0.0066	*
Earth	47012-06-14 02:24 G		18892004.39	18892004.60	18892004.85	0.0089	0.0039	
Moon	47012-06-14 06:00 G		18892004.54	18892004.75	18892004.99	0.0089	0.0044	*
Moon	47013-06-16 11:31 G		18892371.74	18892371.98	18892372.23	0.0089	0.0008	
Earth	47013-06-16 14:10 G		18892371.84	18892372.09	18892372.35	0.0089	0.0012	*
Earth	47014-06-19 01:26 G		18892739.31	18892739.56	18892739.82	0.0089	0.0015	
Moon	47014-06-19 03:50 G		18892739.40	18892739.66	18892739.92	0.0089	0.0010	*
Moon	47015-06-21 12:00 G		18893106.81	18893107.00	18893107.23	0.0089	0.0046	



Earth	47015-06-21 12:58 G	18893106.81	18893107.04	18893107.27	0.0089	0.0042 *
Moon	47016-06-22 23:46 G	18893474.31	18893474.49	18893474.67	0.0089	0.0065
Earth	47016-06-23 00:29 G	18893474.36	18893474.52	18893474.68	0.0089	0.0069 *
Venus	47037-06-20 06:14 G	18901141.69	18901141.76	18901141.84	0.0090	0.0084
Venus	47038-01-31 19:26 G	18901367.20	18901367.31	18901367.45	0.0090	0.0073
Venus	47038-09-14 08:38 G	18901592.72	18901592.86	18901593.04	0.0090	0.0062
Venus	47039-04-27 22:05 G	18901818.25	18901818.42	18901818.62	0.0090	0.0051
Venus	47039-12-09 11:31 G	18902043.80	18902043.98	18902044.19	0.0090	0.0039
Venus	47040-07-22 01:12 G	18902269.34	18902269.55	18902269.76	0.0090	0.0028
Venus	47041-03-04 14:24 G	18902494.89	18902495.10	18902495.32	0.0090	0.0017
Venus	47041-10-16 03:50 G	18902720.44	18902720.66	18902720.88	0.0090	0.0006
Venus	47042-05-29 17:17 G	18902946.01	18902946.22	18902946.44	0.0090	0.0006
Venus	47043-01-10 06:29 G	18903171.57	18903171.77	18903172.00	0.0090	0.0018
Venus	47043-08-23 19:55 G	18903397.13	18903397.33	18903397.55	0.0090	0.0029
Venus	47044-04-05 09:07 G	18903622.70	18903622.88	18903623.09	0.0090	0.0040
Venus	47044-11-16 22:34 G	18903848.27	18903848.44	18903848.63	0.0090	0.0051
Venus	47045-06-30 12:00 G	18904073.85	18904074.00	18904074.17	0.0090	0.0062
Venus	47046-02-11 01:26 G	18904299.44	18904299.56	18904299.69	0.0090	0.0073
Venus	47046-09-24 14:53 G	18904525.04	18904525.12	18904525.19	0.0090	0.0084
Mars	47057-04-12 15:07 G	18908377.92	18908378.13	18908378.39	0.0089	0.0057
Mars	47059-03-07 23:02 G	18909072.20	18909072.46	18909072.73	0.0089	0.0041
Mercury	47073-08-17 14:38 G	18914349.08	18914349.11	18914349.15	0.0089	0.0084
Mercury	47073-11-13 15:36 G	18914437.10	18914437.15	18914437.23	0.0089	0.0077
Mercury	47074-02-09 17:02 G	18914525.14	18914525.21	18914525.30	0.0089	0.0069
Mercury	47074-05-08 18:29 G	18914613.18	18914613.27	18914613.37	0.0089	0.0061
Mercury	47074-08-04 19:41 G	18914701.22	18914701.32	18914701.43	0.0089	0.0054
Mercury	47074-10-31 20:53 G	18914789.27	18914789.37	18914789.49	0.0089	0.0046
Mercury	47075-01-27 22:19 G	18914877.31	18914877.43	18914877.55	0.0089	0.0038
Mercury	47075-04-25 23:31 G	18914965.36	18914965.48	18914965.61	0.0089	0.0031
Mercury	47075-07-23 00:58 G	18915053.41	18915053.54	18915053.66	0.0089	0.0023

Mercury	47075-10-19 02:10 G	18915141.46	18915141.59	18915141.72	0.0089	0.0015
Mercury	47076-01-15 03:22 G	18915229.51	18915229.64	18915229.77	0.0089	0.0008
Mercury	47076-04-12 04:34 G	18915317.56	18915317.69	18915317.82	0.0089	0.0002
Mercury	47076-07-09 06:00 G	18915405.62	18915405.75	18915405.88	0.0089	0.0008
Mercury	47076-10-05 07:12 G	18915493.67	18915493.80	18915493.93	0.0089	0.0015
Mercury	47077-01-01 08:24 G	18915581.72	18915581.85	18915581.98	0.0089	0.0023
Mercury	47077-03-30 09:36 G	18915669.78	18915669.90	18915670.03	0.0089	0.0031
Mercury	47077-06-26 10:48 G	18915757.84	18915757.95	18915758.07	0.0089	0.0038
Mercury	47077-09-22 12:00 G	18915845.90	18915846.00	18915846.12	0.0089	0.0046
Mercury	47077-12-19 13:12 G	18915933.96	18915934.05	18915934.16	0.0089	0.0054
Mercury	47078-03-17 14:38 G	18916022.02	18916022.11	18916022.21	0.0089	0.0061
Mercury	47078-06-13 15:50 G	18916110.08	18916110.16	18916110.25	0.0089	0.0069
Mercury	47078-09-09 16:48 G	18916198.15	18916198.20	18916198.28	0.0089	0.0077
Mercury	47078-12-06 18:14 G	18916286.23	18916286.26	18916286.31	0.0089	0.0084
Earth	47091-12-09 23:02 G	18921037.45	18921037.46	18921037.53	0.0088	0.0087
Moon	47091-12-10 02:10 G	18921037.54	18921037.59	18921037.68	0.0088	0.0085
Moon	47092-12-11 07:55 G	18921404.66	18921404.83	18921405.03	0.0088	0.0063
Earth	47092-12-11 11:46 G	18921404.81	18921404.99	18921405.19	0.0088	0.0060 *
Earth	47093-12-13 23:31 G	18921772.26	18921772.48	18921772.74	0.0088	0.0035
Moon	47093-12-14 03:22 G	18921772.40	18921772.64	18921772.89	0.0088	0.0032 *
Moon	47094-12-16 08:53 G	18922139.61	18922139.87	18922140.12	0.0088	0.0011
Earth	47094-12-16 12:14 G	18922139.75	18922140.01	18922140.27	0.0088	0.0007 *
Earth	47095-12-18 23:46 G	18922507.25	18922507.49	18922507.76	0.0088	0.0019
Moon	47095-12-19 02:10 G	18922507.35	18922507.59	18922507.87	0.0088	0.0022 *
Moon	47096-12-20 10:19 G	18922874.73	18922874.93	18922875.16	0.0088	0.0043
Earth	47096-12-20 11:46 G	18922874.77	18922874.99	18922875.22	0.0088	0.0045 *
Earth	47097-12-22 23:02 G	18923242.34	18923242.46	18923242.64	0.0088	0.0072
Moon	47097-12-22 23:31 G	18923242.37	18923242.48	18923242.65	0.0088	0.0075 *
Venus	47119-08-07 08:53 G	18931138.81	18931138.87	18931138.97	0.0088	0.0082
Venus	47120-03-19 21:36 G	18931364.29	18931364.40	18931364.55	0.0088	0.0072

Venus	47120-10-31 10:34 G	18931589.79	18931589.94	18931590.11	0.0088	0.0061
Venus	47121-06-13 23:02 G	18931815.30	18931815.46	18931815.66	0.0088	0.0051
Venus	47122-01-25 12:00 G	18932040.81	18932041.00	18932041.21	0.0088	0.0040
Venus	47122-09-08 00:29 G	18932266.33	18932266.52	18932266.75	0.0088	0.0030
Venus	47123-04-21 13:26 G	18932491.85	18932492.06	18932492.28	0.0088	0.0019
Venus	47123-12-03 02:24 G	18932717.38	18932717.60	18932717.82	0.0088	0.0008
Venus	47124-07-15 15:07 G	18932942.91	18932943.13	18932943.35	0.0088	0.0002
Venus	47125-02-26 03:36 G	18933168.44	18933168.65	18933168.87	0.0088	0.0013
Venus	47125-10-09 16:19 G	18933393.97	18933394.18	18933394.39	0.0088	0.0023
Venus	47126-05-23 04:48 G	18933619.51	18933619.70	18933619.91	0.0088	0.0034
Venus	47127-01-03 17:17 G	18933845.05	18933845.22	18933845.43	0.0088	0.0045
Venus	47127-08-17 06:14 G	18934070.60	18934070.76	18934070.94	0.0088	0.0055
Venus	47128-03-29 18:43 G	18934296.15	18934296.28	18934296.44	0.0088	0.0066
Venus	47128-11-10 07:26 G	18934521.72	18934521.81	18934521.94	0.0088	0.0076
Venus	47129-06-23 20:38 G	18934747.32	18934747.36	18934747.40	0.0088	0.0086
Mars	47140-11-17 19:26 G	18938912.01	18938912.31	18938912.64	0.0088	0.0022
Mars	47142-10-14 03:50 G	18939607.53	18939607.66	18939607.81	0.0088	0.0079
Mercury	47158-01-17 10:34 G	18945181.86	18945181.94	18945182.04	0.0088	0.0078
Mercury	47158-04-15 14:10 G	18945269.98	18945270.09	18945270.24	0.0088	0.0067
Mercury	47158-07-12 18:14 G	18945358.11	18945358.26	18945358.42	0.0089	0.0055
Mercury	47158-10-08 21:50 G	18945446.25	18945446.41	18945446.59	0.0089	0.0044
Mercury	47159-01-05 01:55 G	18945534.39	18945534.58	18945534.76	0.0089	0.0032
Mercury	47159-04-03 05:31 G	18945622.54	18945622.73	18945622.93	0.0089	0.0021
Mercury	47159-06-30 09:22 G	18945710.70	18945710.89	18945711.09	0.0089	0.0009
Mercury	47159-09-26 13:12 G	18945798.85	18945799.05	18945799.25	0.0089	0.0003
Mercury	47159-12-23 16:48 G	18945887.01	18945887.20	18945887.40	0.0089	0.0014
Mercury	47160-03-20 20:38 G	18945975.18	18945975.36	18945975.56	0.0089	0.0026
Mercury	47160-06-17 00:29 G	18946063.34	18946063.52	18946063.70	0.0089	0.0037
Mercury	47160-09-13 04:05 G	18946151.51	18946151.67	18946151.84	0.0089	0.0049
Mercury	47160-12-10 08:10 G	18946239.69	18946239.84	18946239.98	0.0089	0.0060

Mercury	47161-03-08 11:31 G	18946327.88	18946327.98	18946328.11	0.0089	0.0072
Mercury	47161-06-04 15:22 G	18946416.08	18946416.14	18946416.22	0.0089	0.0083
Earth	47175-06-13 01:41 G	18951537.48	18951537.57	18951537.71	0.0089	0.0080
Moon	47175-06-13 04:48 G	18951537.60	18951537.70	18951537.85	0.0089	0.0078 *
Moon	47176-06-14 10:34 G	18951904.77	18951904.94	18951905.16	0.0089	0.0056
Earth	47176-06-14 13:12 G	18951904.86	18951905.05	18951905.27	0.0089	0.0053 *
Earth	47177-06-17 00:43 G	18952272.29	18952272.53	18952272.78	0.0089	0.0026
Moon	47177-06-17 01:26 G	18952272.32	18952272.56	18952272.83	0.0089	0.0023 *
Moon	47178-06-19 11:46 G	18952639.74	18952639.99	18952640.23	0.0089	0.0001
Earth	47178-06-19 12:00 G	18952639.74	18952640.00	18952640.25	0.0089	0.0001 *
Moon	47179-06-21 22:05 G	18953007.17	18953007.42	18953007.67	0.0089	0.0031
Earth	47179-06-21 23:02 G	18953007.23	18953007.46	18953007.71	0.0089	0.0029 *
Earth	47180-06-23 10:19 G	18953374.75	18953374.93	18953375.15	0.0089	0.0056
Moon	47180-06-23 12:43 G	18953374.85	18953375.03	18953375.25	0.0089	0.0053 *
Moon	47181-06-25 18:43 G	18953742.22	18953742.28	18953742.39	0.0089	0.0085
Earth	47181-06-25 21:50 G	18953742.33	18953742.41	18953742.52	0.0089	0.0082 *
Venus	47201-09-22 17:02 G	18961136.17	18961136.21	18961136.29	0.0090	0.0086
Venus	47202-05-06 06:29 G	18961361.67	18961361.77	18961361.91	0.0090	0.0075
Venus	47202-12-17 19:55 G	18961587.19	18961587.33	18961587.50	0.0090	0.0064
Venus	47203-07-31 09:07 G	18961812.72	18961812.88	18961813.07	0.0090	0.0053
Venus	47204-03-12 22:19 G	18962038.25	18962038.43	18962038.64	0.0090	0.0042
Venus	47204-10-24 11:46 G	18962263.80	18962263.99	18962264.21	0.0090	0.0031
Venus	47205-06-07 01:12 G	18962489.35	18962489.55	18962489.78	0.0090	0.0020
Venus	47206-01-18 14:53 G	18962714.90	18962715.12	18962715.34	0.0090	0.0008
Venus	47206-09-01 04:05 G	18962940.45	18962940.67	18962940.89	0.0090	0.0003
Venus	47207-04-14 17:17 G	18963166.01	18963166.22	18963166.44	0.0090	0.0015
Venus	47207-11-26 06:43 G	18963391.58	18963391.78	18963392.00	0.0090	0.0026
Venus	47208-07-08 20:10 G	18963617.15	18963617.34	18963617.55	0.0090	0.0037
Venus	47209-02-19 09:36 G	18963842.72	18963842.90	18963843.09	0.0090	0.0048
Venus	47209-10-02 22:48 G	18964068.29	18964068.45	18964068.62	0.0090	0.0059

Venus	47210-05-16 12:14 G	18964293.88	18964294.01	18964294.15	0.0090	0.0070
Venus	47210-12-28 01:26 G	18964519.48	18964519.56	18964519.66	0.0090	0.0081
Mars	47222-10-22 01:41 G	18968835.27	18968835.57	18968835.87	0.0089	0.0006
Mercury	47238-02-16 13:12 G	18974432.05	18974432.05	18974432.07	0.0089	0.0088
Mercury	47238-05-15 14:24 G	18974520.06	18974520.10	18974520.16	0.0089	0.0081
Mercury	47238-08-11 15:50 G	18974608.09	18974608.16	18974608.24	0.0089	0.0073
Mercury	47238-11-07 17:17 G	18974696.13	18974696.22	18974696.31	0.0089	0.0065
Mercury	47239-02-03 18:14 G	18974784.17	18974784.26	18974784.37	0.0089	0.0058
Mercury	47239-05-02 19:41 G	18974872.22	18974872.32	18974872.43	0.0089	0.0050
Mercury	47239-07-29 20:53 G	18974960.26	18974960.37	18974960.49	0.0089	0.0042
Mercury	47239-10-25 22:05 G	18975048.31	18975048.42	18975048.55	0.0089	0.0035
Mercury	47240-01-21 23:31 G	18975136.36	18975136.48	18975136.61	0.0089	0.0027
Mercury	47240-04-19 00:43 G	18975224.41	18975224.53	18975224.66	0.0089	0.0019
Mercury	47240-07-16 01:55 G	18975312.46	18975312.58	18975312.71	0.0089	0.0012
Mercury	47240-10-12 03:22 G	18975400.51	18975400.64	18975400.77	0.0089	0.0004
Mercury	47241-01-08 04:34 G	18975488.56	18975488.69	18975488.82	0.0089	0.0004
Mercury	47241-04-06 05:46 G	18975576.61	18975576.74	18975576.87	0.0089	0.0011
Mercury	47241-07-03 06:58 G	18975664.67	18975664.79	18975664.92	0.0089	0.0019
Mercury	47241-09-29 08:10 G	18975752.72	18975752.84	18975752.97	0.0089	0.0027
Mercury	47241-12-26 09:36 G	18975840.78	18975840.90	18975841.02	0.0089	0.0034
Mercury	47242-03-24 10:48 G	18975928.84	18975928.95	18975929.07	0.0089	0.0042
Mercury	47242-06-20 11:46 G	18976016.89	18976016.99	18976017.11	0.0089	0.0050
Mercury	47242-09-16 13:12 G	18976104.96	18976105.05	18976105.15	0.0089	0.0057
Mercury	47242-12-13 14:24 G	18976193.02	18976193.10	18976193.20	0.0089	0.0065
Mercury	47243-03-11 15:50 G	18976281.09	18976281.16	18976281.23	0.0089	0.0072
Mercury	47243-06-07 16:48 G	18976369.16	18976369.20	18976369.27	0.0089	0.0080
Mercury	47243-09-03 18:00 G	18976457.25	18976457.25	18976457.28	0.0089	0.0088
Earth	47256-12-11 20:53 G	18981305.24	18981305.37	18981305.52	0.0088	0.0074
Moon	47256-12-12 00:00 G	18981305.41	18981305.50	18981305.65	0.0088	0.0079 *
Moon	47257-12-14 06:14 G	18981672.56	18981672.76	18981673.00	0.0088	0.0044

Earth	47257-12-14 08:53 G	18981672.67	18981672.87	18981673.10	0.0088	0.0048	*
Earth	47258-12-16 21:22 G	18982040.14	18982040.39	18982040.64	0.0088	0.0021	
Moon	47258-12-16 23:17 G	18982040.22	18982040.47	18982040.74	0.0088	0.0024	*
Moon	47259-12-19 08:24 G	18982407.60	18982407.85	18982408.11	0.0088	0.0010	
Earth	47259-12-19 09:07 G	18982407.63	18982407.88	18982408.15	0.0088	0.0006	*
Moon	47260-12-20 20:24 G	18982775.10	18982775.35	18982775.61	0.0088	0.0029	
Earth	47260-12-20 21:22 G	18982775.15	18982775.39	18982775.63	0.0088	0.0033	*
Earth	47261-12-23 08:53 G	18983142.70	18983142.87	18983143.09	0.0088	0.0059	
Moon	47261-12-23 10:19 G	18983142.78	18983142.93	18983143.13	0.0088	0.0063	*
Moon	47262-12-25 18:00 G	18983510.17	18983510.25	18983510.37	0.0088	0.0081	
Earth	47262-12-25 21:07 G	18983510.33	18983510.38	18983510.45	0.0088	0.0085	*
Venus	47283-11-08 19:55 G	18991133.29	18991133.33	18991133.42	0.0088	0.0084	
Venus	47284-06-21 09:07 G	18991358.77	18991358.88	18991359.01	0.0088	0.0073	
Venus	47285-02-01 21:36 G	18991584.26	18991584.40	18991584.57	0.0088	0.0063	
Venus	47285-09-15 10:19 G	18991809.77	18991809.93	18991810.12	0.0088	0.0053	
Venus	47286-04-28 23:17 G	18992035.28	18992035.47	18992035.67	0.0088	0.0042	
Venus	47286-12-10 12:00 G	18992260.81	18992261.00	18992261.22	0.0088	0.0032	
Venus	47287-07-24 00:58 G	18992486.33	18992486.54	18992486.76	0.0088	0.0021	
Venus	47288-03-05 13:41 G	18992711.85	18992712.07	18992712.29	0.0088	0.0011	
Venus	47288-10-17 02:24 G	18992937.38	18992937.60	18992937.82	0.0088	0.0000	
Venus	47289-05-30 14:53 G	18993162.91	18993163.12	18993163.35	0.0088	0.0011	
Venus	47290-01-11 03:50 G	18993388.45	18993388.66	18993388.87	0.0088	0.0021	
Venus	47290-08-24 16:05 G	18993613.98	18993614.17	18993614.39	0.0088	0.0032	
Venus	47291-04-07 04:48 G	18993839.52	18993839.70	18993839.91	0.0088	0.0042	
Venus	47291-11-18 17:31 G	18994065.07	18994065.23	18994065.42	0.0088	0.0053	
Venus	47292-07-01 06:14 G	18994290.62	18994290.76	18994290.93	0.0088	0.0063	
Venus	47293-02-11 19:12 G	18994516.18	18994516.30	18994516.43	0.0088	0.0073	
Venus	47293-09-25 07:26 G	18994741.77	18994741.81	18994741.90	0.0088	0.0084	
Mars	47304-07-03 05:46 G	18998674.51	18998674.74	18998675.01	0.0088	0.0056	
Mars	47306-05-29 11:46 G	18999369.71	18999369.99	18999370.28	0.0088	0.0044	

Mercury	47322-07-19 05:02 G	19005264.68	19005264.71	19005264.80	0.0088	0.0085
Mercury	47322-10-15 09:07 G	19005352.78	19005352.88	19005353.01	0.0088	0.0073
Mercury	47323-01-11 12:43 G	19005440.91	19005441.03	19005441.19	0.0089	0.0062
Mercury	47323-04-09 16:48 G	19005529.05	19005529.20	19005529.37	0.0089	0.0050
Mercury	47323-07-06 20:24 G	19005617.19	19005617.35	19005617.54	0.0089	0.0039
Mercury	47323-10-03 00:29 G	19005705.33	19005705.52	19005705.71	0.0089	0.0027
Mercury	47323-12-30 04:05 G	19005793.48	19005793.67	19005793.88	0.0089	0.0016
Mercury	47324-03-27 08:10 G	19005881.64	19005881.84	19005882.04	0.0089	0.0004
Mercury	47324-06-23 11:46 G	19005969.80	19005969.99	19005970.19	0.0089	0.0008
Mercury	47324-09-19 15:36 G	19006057.96	19006058.15	19006058.35	0.0089	0.0019
Mercury	47324-12-16 19:26 G	19006146.12	19006146.31	19006146.50	0.0089	0.0031
Mercury	47325-03-14 23:02 G	19006234.29	19006234.46	19006234.64	0.0089	0.0043
Mercury	47325-06-11 02:53 G	19006322.47	19006322.62	19006322.78	0.0089	0.0054
Mercury	47325-09-07 06:29 G	19006410.65	19006410.77	19006410.91	0.0089	0.0066
Mercury	47325-12-04 10:34 G	19006498.84	19006498.94	19006499.03	0.0089	0.0077
Mercury	47326-03-02 14:10 G	19006587.09	19006587.09	19006587.10	0.0089	0.0089
Earth	47340-06-15 00:43 G	19011805.37	19011805.53	19011805.71	0.0089	0.0066
Moon	47340-06-15 01:12 G	19011805.39	19011805.55	19011805.77	0.0089	0.0062 *
Earth	47341-06-17 12:00 G	19012172.77	19012173.00	19012173.23	0.0089	0.0039
Moon	47341-06-17 12:29 G	19012172.82	19012173.02	19012173.26	0.0089	0.0042 *
Moon	47342-06-19 21:36 G	19012540.14	19012540.40	19012540.67	0.0089	0.0009
Earth	47342-06-19 23:17 G	19012540.22	19012540.47	19012540.73	0.0089	0.0012 *
Earth	47343-06-22 10:34 G	19012907.69	19012907.94	19012908.20	0.0089	0.0015
Moon	47343-06-22 13:12 G	19012907.80	19012908.05	19012908.30	0.0089	0.0012 *
Moon	47344-06-23 18:14 G	19013275.05	19013275.26	19013275.49	0.0089	0.0046
Earth	47344-06-23 21:50 G	19013275.19	19013275.41	19013275.64	0.0089	0.0042 *
Earth	47345-06-26 08:53 G	19013642.73	19013642.87	19013643.04	0.0089	0.0070
Moon	47345-06-26 12:29 G	19013642.86	19013643.02	19013643.20	0.0089	0.0066 *
Venus	47365-12-26 04:05 G	19021130.65	19021130.67	19021130.75	0.0090	0.0088
Venus	47366-08-08 17:31 G	19021356.14	19021356.23	19021356.37	0.0090	0.0077

Venus	47367-03-22 06:58 G	19021581.66	19021581.79	19021581.96	0.0090	0.0066
Venus	47367-11-02 20:24 G	19021807.19	19021807.35	19021807.54	0.0090	0.0055
Venus	47368-06-15 09:50 G	19022032.73	19022032.91	19022033.12	0.0090	0.0044
Venus	47369-01-26 23:17 G	19022258.27	19022258.47	19022258.68	0.0090	0.0033
Venus	47369-09-09 12:29 G	19022483.82	19022484.02	19022484.24	0.0090	0.0022
Venus	47370-04-23 01:55 G	19022709.37	19022709.58	19022709.80	0.0090	0.0011
Venus	47370-12-04 15:22 G	19022934.92	19022935.14	19022935.36	0.0090	0.0001
Venus	47371-07-18 04:48 G	19023160.48	19023160.70	19023160.92	0.0090	0.0012
Venus	47372-02-28 17:46 G	19023386.04	19023386.24	19023386.47	0.0090	0.0024
Venus	47372-10-11 07:12 G	19023611.61	19023611.80	19023612.01	0.0090	0.0034
Venus	47373-05-24 20:24 G	19023837.18	19023837.35	19023837.56	0.0090	0.0046
Venus	47374-01-05 09:50 G	19024062.76	19024062.91	19024063.10	0.0090	0.0057
Venus	47374-08-18 23:02 G	19024288.34	19024288.46	19024288.63	0.0090	0.0068
Venus	47375-04-01 12:14 G	19024513.93	19024514.01	19024514.14	0.0090	0.0079
Venus	47375-11-13 02:10 G	19024739.57	19024739.59	19024739.62	0.0090	0.0089
Mars	47386-06-07 02:38 G	19028598.33	19028598.61	19028598.91	0.0089	0.0028
Mars	47388-05-01 12:14 G	19029292.84	19029293.01	19029293.22	0.0089	0.0070
Mercury	47402-11-15 12:58 G	19034603.02	19034603.04	19034603.10	0.0089	0.0085
Mercury	47403-02-11 14:24 G	19034691.05	19034691.10	19034691.17	0.0089	0.0077
Mercury	47403-05-10 15:50 G	19034779.08	19034779.16	19034779.24	0.0089	0.0069
Mercury	47403-08-06 17:02 G	19034867.12	19034867.21	19034867.31	0.0089	0.0062
Mercury	47403-11-02 18:14 G	19034955.17	19034955.26	19034955.37	0.0089	0.0054
Mercury	47404-01-29 19:41 G	19035043.21	19035043.32	19035043.43	0.0089	0.0046
Mercury	47404-04-26 20:53 G	19035131.26	19035131.37	19035131.49	0.0089	0.0039
Mercury	47404-07-23 22:05 G	19035219.30	19035219.42	19035219.55	0.0089	0.0031
Mercury	47404-10-19 23:31 G	19035307.35	19035307.48	19035307.61	0.0089	0.0023
Mercury	47405-01-16 00:43 G	19035395.40	19035395.53	19035395.66	0.0089	0.0016
Mercury	47405-04-14 01:55 G	19035483.45	19035483.58	19035483.72	0.0089	0.0008
Mercury	47405-07-11 03:22 G	19035571.51	19035571.64	19035571.77	0.0089	0.0002
Mercury	47405-10-07 04:34 G	19035659.56	19035659.69	19035659.82	0.0089	0.0007



Mercury	47406-01-03 05:46 G	19035747.61	19035747.74	19035747.87	0.0089	0.0015
Mercury	47406-04-01 06:58 G	19035835.67	19035835.79	19035835.92	0.0089	0.0023
Mercury	47406-06-28 08:10 G	19035923.72	19035923.84	19035923.97	0.0089	0.0031
Mercury	47406-09-24 09:36 G	19036011.78	19036011.90	19036012.02	0.0089	0.0038
Mercury	47406-12-21 10:34 G	19036099.84	19036099.94	19036100.06	0.0089	0.0046
Mercury	47407-03-19 12:00 G	19036187.90	19036188.00	19036188.11	0.0089	0.0053
Mercury	47407-06-15 13:12 G	19036275.96	19036276.05	19036276.15	0.0089	0.0061
Mercury	47407-09-11 14:24 G	19036364.03	19036364.10	19036364.19	0.0089	0.0069
Mercury	47407-12-08 15:50 G	19036452.09	19036452.16	19036452.22	0.0089	0.0076
Mercury	47408-03-05 16:48 G	19036540.17	19036540.20	19036540.25	0.0089	0.0084
Moon	47420-12-13 03:50 G	19041205.63	19041205.66	19041205.74	0.0088	0.0086
Earth	47420-12-13 06:14 G	19041205.75	19041205.76	19041205.83	0.0088	0.0088
Earth	47421-12-15 18:43 G	19041573.10	19041573.28	19041573.48	0.0088	0.0061
Moon	47421-12-15 19:26 G	19041573.14	19041573.31	19041573.53	0.0088	0.0061 *
Earth	47422-12-18 06:29 G	19041940.55	19041940.77	19041941.03	0.0088	0.0034
Moon	47422-12-18 06:29 G	19041940.55	19041940.77	19041941.02	0.0088	0.0033 *
Moon	47423-12-20 17:46 G	19042307.98	19042308.24	19042308.51	0.0088	0.0009
Earth	47423-12-20 18:58 G	19042308.03	19042308.29	19042308.55	0.0088	0.0007 *
Earth	47424-12-22 06:58 G	19042675.54	19042675.79	19042676.05	0.0088	0.0020
Moon	47424-12-22 09:36 G	19042675.65	19042675.90	19042676.14	0.0088	0.0020 *
Moon	47425-12-24 15:36 G	19043042.94	19043043.15	19043043.40	0.0088	0.0045
Earth	47425-12-24 18:43 G	19043043.08	19043043.28	19043043.52	0.0088	0.0046 *
Earth	47426-12-27 06:14 G	19043410.65	19043410.76	19043410.94	0.0088	0.0073
Moon	47426-12-27 10:05 G	19043410.81	19043410.92	19043411.08	0.0088	0.0075 *
Venus	47448-02-12 07:55 G	19051127.79	19051127.83	19051127.90	0.0088	0.0085
Venus	47448-09-24 20:24 G	19051353.26	19051353.35	19051353.48	0.0088	0.0075
Venus	47449-05-08 09:07 G	19051578.75	19051578.88	19051579.05	0.0088	0.0065
Venus	47449-12-19 22:19 G	19051804.26	19051804.43	19051804.61	0.0088	0.0054
Venus	47450-08-02 10:48 G	19052029.77	19052029.95	19052030.16	0.0088	0.0044
Venus	47451-03-16 00:00 G	19052255.29	19052255.50	19052255.70	0.0088	0.0033

Venus	47451-10-27 12:29 G	19052480.81	19052481.02	19052481.24	0.0088	0.0023
Venus	47452-06-09 01:12 G	19052706.34	19052706.55	19052706.78	0.0088	0.0013
Venus	47453-01-20 14:10 G	19052931.87	19052932.09	19052932.31	0.0088	0.0002
Venus	47453-09-03 02:38 G	19053157.40	19053157.61	19053157.84	0.0088	0.0009
Venus	47454-04-16 15:22 G	19053382.93	19053383.14	19053383.36	0.0088	0.0019
Venus	47454-11-28 04:05 G	19053608.47	19053608.67	19053608.89	0.0088	0.0030
Venus	47455-07-11 16:48 G	19053834.01	19053834.20	19053834.41	0.0088	0.0040
Venus	47456-02-22 05:31 G	19054059.55	19054059.73	19054059.92	0.0088	0.0050
Venus	47456-10-04 18:14 G	19054285.10	19054285.26	19054285.42	0.0088	0.0060
Venus	47457-05-18 06:29 G	19054510.66	19054510.77	19054510.92	0.0088	0.0071
Venus	47457-12-29 19:26 G	19054736.24	19054736.31	19054736.41	0.0088	0.0081
Mars	47470-01-11 21:36 G	19059132.09	19059132.40	19059132.73	0.0088	0.0010
Mercury	47487-04-16 04:05 G	19065435.60	19065435.67	19065435.78	0.0089	0.0079
Mercury	47487-07-13 08:10 G	19065523.72	19065523.84	19065523.98	0.0089	0.0067
Mercury	47487-10-09 11:46 G	19065611.85	19065611.99	19065612.16	0.0089	0.0056
Mercury	47488-01-05 15:50 G	19065699.99	19065700.16	19065700.33	0.0089	0.0044
Mercury	47488-04-02 19:26 G	19065788.13	19065788.31	19065788.50	0.0089	0.0033
Mercury	47488-06-29 23:17 G	19065876.28	19065876.47	19065876.67	0.0089	0.0021
Mercury	47488-09-26 03:07 G	19065964.44	19065964.63	19065964.83	0.0089	0.0009
Mercury	47488-12-23 06:58 G	19066052.59	19066052.79	19066052.99	0.0089	0.0002
Mercury	47489-03-21 10:48 G	19066140.75	19066140.95	19066141.14	0.0089	0.0014
Mercury	47489-06-17 14:24 G	19066228.92	19066229.10	19066229.30	0.0089	0.0025
Mercury	47489-09-13 18:14 G	19066317.08	19066317.26	19066317.44	0.0089	0.0037
Mercury	47489-12-10 21:50 G	19066405.25	19066405.41	19066405.59	0.0089	0.0049
Mercury	47490-03-09 01:41 G	19066493.43	19066493.57	19066493.72	0.0089	0.0060
Mercury	47490-06-05 05:17 G	19066581.62	19066581.72	19066581.85	0.0089	0.0072
Mercury	47490-09-01 09:22 G	19066669.83	19066669.89	19066669.96	0.0089	0.0083
Jupiter	47502-05-22 10:34 G	19070949.45	19070949.94	19070950.49	0.0089	0.0024
Earth	47504-06-16 11:17 G	19071705.88	19071705.97	19071706.12	0.0089	0.0079
Moon	47504-06-16 12:14 G	19071705.91	19071706.01	19071706.16	0.0089	0.0076 *

Moon	47505-06-18 20:10 G	19072073.16	19072073.34	19072073.57	0.0089	0.0056
Earth	47505-06-18 22:48 G	19072073.27	19072073.45	19072073.68	0.0089	0.0052 *
Earth	47506-06-21 10:19 G	19072440.70	19072440.93	19072441.19	0.0089	0.0025
Moon	47506-06-21 13:26 G	19072440.82	19072441.06	19072441.31	0.0089	0.0021 *
Moon	47507-06-23 18:29 G	19072808.01	19072808.27	19072808.53	0.0089	0.0001
Earth	47507-06-23 21:50 G	19072808.16	19072808.41	19072808.67	0.0089	0.0003 *
Earth	47508-06-25 09:07 G	19073175.64	19073175.88	19073176.12	0.0089	0.0030
Moon	47508-06-25 12:29 G	19073175.80	19073176.02	19073176.27	0.0089	0.0034 *
Moon	47509-06-27 17:31 G	19073543.04	19073543.23	19073543.44	0.0089	0.0054
Earth	47509-06-27 20:38 G	19073543.16	19073543.36	19073543.55	0.0089	0.0057 *
Earth	47510-06-30 07:41 G	19073910.74	19073910.82	19073910.91	0.0089	0.0084
Moon	47510-06-30 09:50 G	19073910.87	19073910.91	19073911.00	0.0089	0.0087 *
Venus	47530-03-31 15:36 G	19081125.14	19081125.15	19081125.20	0.0090	0.0089
Venus	47530-11-12 05:17 G	19081350.62	19081350.72	19081350.83	0.0090	0.0078
Venus	47531-06-25 18:43 G	19081576.14	19081576.28	19081576.43	0.0090	0.0067
Venus	47532-02-06 08:10 G	19081801.67	19081801.84	19081802.01	0.0090	0.0056
Venus	47532-09-18 21:07 G	19082027.21	19082027.38	19082027.58	0.0090	0.0046
Venus	47533-05-02 10:34 G	19082252.75	19082252.94	19082253.15	0.0090	0.0035
Venus	47533-12-14 00:00 G	19082478.29	19082478.50	19082478.72	0.0090	0.0023
Venus	47534-07-27 13:12 G	19082703.84	19082704.05	19082704.28	0.0090	0.0013
Venus	47535-03-10 02:38 G	19082929.39	19082929.61	19082929.83	0.0090	0.0002
Venus	47535-10-21 15:50 G	19083154.95	19083155.16	19083155.39	0.0090	0.0010
Venus	47536-06-03 05:17 G	19083380.51	19083380.72	19083380.94	0.0090	0.0021
Venus	47537-01-14 18:29 G	19083606.08	19083606.27	19083606.49	0.0090	0.0032
Venus	47537-08-28 07:41 G	19083831.64	19083831.82	19083832.03	0.0090	0.0043
Venus	47538-04-10 20:53 G	19084057.21	19084057.37	19084057.56	0.0090	0.0054
Venus	47538-11-22 10:05 G	19084282.79	19084282.92	19084283.10	0.0090	0.0065
Venus	47539-07-05 23:31 G	19084508.39	19084508.48	19084508.62	0.0090	0.0076
Venus	47540-02-16 13:26 G	19084734.00	19084734.06	19084734.12	0.0090	0.0086
Mars	47550-01-22 03:50 G	19088361.47	19088361.66	19088361.89	0.0089	0.0064

Mars	47551-12-17 14:10 G	19089055.84	19089056.09	19089056.39	0.0089	0.0037
Mercury	47567-05-17 11:46 G	19094685.99	19094685.99	19094686.01	0.0089	0.0089
Mercury	47567-08-13 13:12 G	19094774.00	19094774.05	19094774.11	0.0089	0.0081
Mercury	47567-11-09 14:24 G	19094862.04	19094862.10	19094862.18	0.0089	0.0073
Mercury	47568-02-05 15:36 G	19094950.08	19094950.15	19094950.25	0.0089	0.0066
Mercury	47568-05-03 17:02 G	19095038.12	19095038.21	19095038.31	0.0089	0.0058
Mercury	47568-07-30 18:14 G	19095126.16	19095126.26	19095126.38	0.0089	0.0050
Mercury	47568-10-26 19:41 G	19095214.21	19095214.32	19095214.44	0.0089	0.0042
Mercury	47569-01-22 20:53 G	19095302.25	19095302.37	19095302.49	0.0089	0.0035
Mercury	47569-04-20 22:05 G	19095390.30	19095390.42	19095390.55	0.0089	0.0027
Mercury	47569-07-17 23:31 G	19095478.35	19095478.48	19095478.61	0.0089	0.0019
Mercury	47569-10-14 00:43 G	19095566.40	19095566.53	19095566.66	0.0089	0.0012
Mercury	47570-01-10 01:55 G	19095654.45	19095654.58	19095654.71	0.0089	0.0004
Mercury	47570-04-08 03:07 G	19095742.50	19095742.63	19095742.77	0.0089	0.0005
Mercury	47570-07-05 04:34 G	19095830.56	19095830.69	19095830.82	0.0089	0.0011
Mercury	47570-10-01 05:46 G	19095918.61	19095918.74	19095918.87	0.0089	0.0019
Mercury	47570-12-28 06:58 G	19096006.67	19096006.79	19096006.92	0.0089	0.0027
Mercury	47571-03-26 08:10 G	19096094.72	19096094.84	19096094.96	0.0089	0.0034
Mercury	47571-06-22 09:22 G	19096182.78	19096182.89	19096183.01	0.0089	0.0042
Mercury	47571-09-18 10:34 G	19096270.84	19096270.94	19096271.06	0.0089	0.0050
Mercury	47571-12-15 12:00 G	19096358.90	19096359.00	19096359.10	0.0089	0.0057
Mercury	47572-03-12 13:12 G	19096446.97	19096447.05	19096447.14	0.0089	0.0065
Mercury	47572-06-08 14:10 G	19096535.03	19096535.09	19096535.18	0.0089	0.0073
Mercury	47572-09-04 15:36 G	19096623.10	19096623.15	19096623.21	0.0089	0.0080
Mercury	47572-12-01 16:48 G	19096711.19	19096711.20	19096711.23	0.0089	0.0088
Earth	47585-12-16 04:48 G	19101473.58	19101473.70	19101473.87	0.0088	0.0074
Moon	47585-12-16 05:31 G	19101473.64	19101473.73	19101473.87	0.0088	0.0079 *
Moon	47586-12-18 14:53 G	19101840.90	19101841.12	19101841.37	0.0088	0.0043
Earth	47586-12-18 17:17 G	19101841.00	19101841.22	19101841.44	0.0088	0.0047 *
Earth	47587-12-21 05:02 G	19102208.47	19102208.71	19102208.97	0.0088	0.0020

Moon	47587-12-21 07:41 G	19102208.58	19102208.82	19102209.07	0.0088	0.0024 *
Moon	47588-12-22 13:26 G	19102575.81	19102576.06	19102576.33	0.0088	0.0012
Earth	47588-12-22 17:17 G	19102575.96	19102576.22	19102576.48	0.0088	0.0007 *
Earth	47589-12-25 04:48 G	19102943.48	19102943.70	19102943.96	0.0088	0.0034
Moon	47589-12-25 08:38 G	19102943.62	19102943.86	19102944.11	0.0088	0.0029 *
Moon	47590-12-27 12:58 G	19103310.90	19103311.04	19103311.25	0.0088	0.0066
Earth	47590-12-27 16:48 G	19103311.03	19103311.20	19103311.41	0.0088	0.0061 *
Earth	47591-12-30 04:34 G	19103678.68	19103678.69	19103678.76	0.0088	0.0087
Moon	47591-12-30 07:26 G	19103678.74	19103678.81	19103678.93	0.0088	0.0082 *
Venus	47612-05-16 19:55 G	19111122.29	19111122.33	19111122.37	0.0088	0.0086
Venus	47612-12-28 08:24 G	19111347.75	19111347.85	19111347.97	0.0088	0.0076
Venus	47613-08-10 20:53 G	19111573.24	19111573.37	19111573.53	0.0088	0.0066
Venus	47614-03-24 09:36 G	19111798.75	19111798.90	19111799.09	0.0088	0.0056
Venus	47614-11-04 22:48 G	19112024.26	19112024.45	19112024.64	0.0088	0.0045
Venus	47615-06-18 11:17 G	19112249.78	19112249.97	19112250.18	0.0088	0.0035
Venus	47616-01-30 00:00 G	19112475.30	19112475.50	19112475.72	0.0088	0.0025
Venus	47616-09-11 12:58 G	19112700.82	19112701.04	19112701.26	0.0088	0.0014
Venus	47617-04-25 01:41 G	19112926.35	19112926.57	19112926.79	0.0088	0.0004
Venus	47617-12-06 14:24 G	19113151.89	19113152.10	19113152.33	0.0088	0.0007
Venus	47618-07-20 03:07 G	19113377.42	19113377.63	19113377.86	0.0088	0.0017
Venus	47619-03-02 16:05 G	19113602.96	19113603.17	19113603.38	0.0088	0.0027
Venus	47619-10-14 04:19 G	19113828.50	19113828.68	19113828.90	0.0088	0.0038
Venus	47620-05-26 17:02 G	19114054.04	19114054.21	19114054.41	0.0088	0.0048
Venus	47621-01-07 06:00 G	19114279.60	19114279.75	19114279.93	0.0088	0.0058
Venus	47621-08-20 18:29 G	19114505.15	19114505.27	19114505.43	0.0088	0.0069
Venus	47622-04-03 07:12 G	19114730.72	19114730.80	19114730.92	0.0088	0.0079
Mars	47633-08-27 08:10 G	19118894.54	19118894.84	19118895.16	0.0088	0.0025
Mars	47635-07-23 12:29 G	19119589.90	19119590.02	19119590.22	0.0088	0.0077
Mercury	47651-10-15 23:31 G	19125518.43	19125518.48	19125518.55	0.0089	0.0084
Mercury	47652-01-12 03:07 G	19125606.53	19125606.63	19125606.76	0.0089	0.0073

Mercury	47652-04-09 07:12 G	19125694.66	19125694.80	19125694.94	0.0089	0.0061
Mercury	47652-07-06 10:34 G	19125782.79	19125782.94	19125783.12	0.0089	0.0050
Mercury	47652-10-02 14:38 G	19125870.94	19125871.11	19125871.29	0.0089	0.0038
Mercury	47652-12-29 18:14 G	19125959.08	19125959.26	19125959.46	0.0089	0.0027
Mercury	47653-03-27 22:19 G	19126047.23	19126047.43	19126047.63	0.0089	0.0015
Mercury	47653-06-24 02:10 G	19126135.39	19126135.59	19126135.79	0.0089	0.0004
Mercury	47653-09-20 05:46 G	19126223.55	19126223.74	19126223.94	0.0089	0.0008
Mercury	47653-12-17 09:36 G	19126311.71	19126311.90	19126312.09	0.0089	0.0020
Mercury	47654-03-15 13:12 G	19126399.87	19126400.05	19126400.24	0.0089	0.0031
Mercury	47654-06-11 17:02 G	19126488.04	19126488.21	19126488.39	0.0089	0.0043
Mercury	47654-09-07 20:38 G	19126576.22	19126576.36	19126576.53	0.0089	0.0055
Mercury	47654-12-05 00:29 G	19126664.40	19126664.52	19126664.66	0.0089	0.0066
Mercury	47655-03-03 04:05 G	19126752.59	19126752.67	19126752.78	0.0089	0.0078
Earth	47669-06-18 10:05 G	19131973.77	19131973.92	19131974.12	0.0089	0.0066
Moon	47669-06-18 14:10 G	19131973.91	19131974.09	19131974.27	0.0089	0.0063 *
Moon	47670-06-20 18:43 G	19132341.05	19132341.28	19132341.51	0.0089	0.0040
Earth	47670-06-20 21:50 G	19132341.19	19132341.41	19132341.65	0.0089	0.0038 *
Earth	47671-06-23 09:07 G	19132708.64	19132708.88	19132709.15	0.0089	0.0012
Moon	47671-06-23 12:58 G	19132708.78	19132709.04	19132709.29	0.0089	0.0008 *
Moon	47672-06-24 17:46 G	19133076.00	19133076.24	19133076.50	0.0089	0.0014
Earth	47672-06-24 20:38 G	19133076.11	19133076.36	19133076.61	0.0089	0.0017 *
Earth	47673-06-27 07:26 G	19133443.61	19133443.81	19133444.06	0.0089	0.0045
Moon	47673-06-27 09:07 G	19133443.67	19133443.88	19133444.12	0.0089	0.0046 *
Moon	47674-06-29 18:14 G	19133811.12	19133811.26	19133811.44	0.0089	0.0069
Earth	47674-06-29 18:43 G	19133811.16	19133811.28	19133811.46	0.0089	0.0072 *
Venus	47695-02-13 16:19 G	19141345.11	19141345.18	19141345.31	0.0090	0.0080
Venus	47695-09-27 06:00 G	19141570.63	19141570.75	19141570.91	0.0090	0.0069
Venus	47696-05-09 19:26 G	19141796.16	19141796.31	19141796.49	0.0090	0.0058
Venus	47696-12-21 08:53 G	19142021.70	19142021.87	19142022.07	0.0090	0.0047
Venus	47697-08-03 22:19 G	19142247.24	19142247.43	19142247.64	0.0090	0.0036

Venus	47698-03-17 11:46 G	19142472.78	19142472.99	19142473.20	0.0090	0.0025
Venus	47698-10-29 00:58 G	19142698.33	19142698.54	19142698.76	0.0090	0.0014
Venus	47699-06-11 14:24 G	19142923.89	19142924.10	19142924.32	0.0090	0.0004
Venus	47700-01-23 03:50 G	19143149.44	19143149.66	19143149.88	0.0090	0.0008
Venus	47700-09-05 16:48 G	19143375.00	19143375.20	19143375.43	0.0090	0.0019
Venus	47701-04-19 06:00 G	19143600.56	19143600.75	19143600.97	0.0090	0.0030
Venus	47701-11-30 19:41 G	19143826.12	19143826.32	19143826.51	0.0090	0.0040
Venus	47702-07-14 08:53 G	19144051.70	19144051.87	19144052.06	0.0090	0.0051
Venus	47703-02-24 22:05 G	19144277.27	19144277.42	19144277.59	0.0090	0.0062
Venus	47703-10-08 11:02 G	19144502.86	19144502.96	19144503.11	0.0090	0.0073
Venus	47704-05-21 00:14 G	19144728.46	19144728.51	19144728.62	0.0090	0.0084
Mars	47715-08-02 16:19 G	19148818.88	19148819.18	19148819.49	0.0089	0.0001
Mercury	47732-02-12 11:46 G	19154856.97	19154856.99	19154857.04	0.0089	0.0085
Mercury	47732-05-10 13:12 G	19154944.99	19154945.05	19154945.12	0.0089	0.0077
Mercury	47732-08-06 14:38 G	19155033.03	19155033.11	19155033.19	0.0089	0.0069
Mercury	47732-11-02 15:50 G	19155121.07	19155121.16	19155121.26	0.0089	0.0061
Mercury	47733-01-29 17:02 G	19155209.11	19155209.21	19155209.32	0.0089	0.0054
Mercury	47733-04-27 18:14 G	19155297.16	19155297.26	19155297.38	0.0089	0.0046
Mercury	47733-07-24 19:41 G	19155385.20	19155385.32	19155385.44	0.0089	0.0038
Mercury	47733-10-20 20:53 G	19155473.25	19155473.37	19155473.50	0.0089	0.0031
Mercury	47734-01-16 22:19 G	19155561.30	19155561.43	19155561.55	0.0089	0.0023
Mercury	47734-04-14 23:31 G	19155649.35	19155649.48	19155649.61	0.0089	0.0015
Mercury	47734-07-12 00:43 G	19155737.40	19155737.53	19155737.66	0.0089	0.0008
Mercury	47734-10-08 02:10 G	19155825.45	19155825.59	19155825.72	0.0089	0.0003
Mercury	47735-01-04 03:22 G	19155913.51	19155913.64	19155913.77	0.0089	0.0008
Mercury	47735-04-02 04:34 G	19156001.56	19156001.69	19156001.82	0.0089	0.0015
Mercury	47735-06-29 05:46 G	19156089.62	19156089.74	19156089.87	0.0089	0.0023
Mercury	47735-09-25 06:58 G	19156177.67	19156177.79	19156177.92	0.0089	0.0031
Mercury	47735-12-22 08:10 G	19156265.73	19156265.84	19156265.96	0.0089	0.0039
Mercury	47736-03-19 09:36 G	19156353.79	19156353.90	19156354.01	0.0089	0.0046

Mercury	47736-06-15 10:34 G	19156441.85	19156441.94	19156442.05	0.0089	0.0054
Mercury	47736-09-11 11:46 G	19156529.91	19156529.99	19156530.10	0.0089	0.0062
Mercury	47736-12-08 13:12 G	19156617.98	19156618.05	19156618.14	0.0089	0.0069
Mercury	47737-03-06 14:24 G	19156706.05	19156706.10	19156706.17	0.0089	0.0077
Mercury	47737-06-02 15:50 G	19156794.12	19156794.16	19156794.20	0.0089	0.0084
Moon	47749-12-16 12:14 G	19161374.00	19161374.01	19161374.08	0.0088	0.0087
Earth	47749-12-16 15:07 G	19161374.10	19161374.13	19161374.20	0.0088	0.0087
Earth	47750-12-19 03:07 G	19161741.45	19161741.63	19161741.83	0.0088	0.0060
Moon	47750-12-19 06:43 G	19161741.59	19161741.78	19161741.97	0.0088	0.0059 *
Moon	47751-12-21 12:00 G	19162108.76	19162109.00	19162109.24	0.0088	0.0033
Earth	47751-12-21 15:07 G	19162108.90	19162109.13	19162109.39	0.0088	0.0033 *
Earth	47752-12-23 03:22 G	19162476.38	19162476.64	19162476.90	0.0088	0.0006
Moon	47752-12-23 06:58 G	19162476.54	19162476.79	19162477.06	0.0088	0.0007 *
Moon	47753-12-25 12:29 G	19162843.77	19162844.02	19162844.27	0.0088	0.0021
Earth	47753-12-25 14:53 G	19162843.88	19162844.12	19162844.39	0.0088	0.0022 *
Earth	47754-12-28 02:38 G	19163211.42	19163211.61	19163211.85	0.0088	0.0048
Moon	47754-12-28 05:02 G	19163211.51	19163211.71	19163211.97	0.0088	0.0048 *
Moon	47755-12-30 13:26 G	19163578.96	19163579.06	19163579.22	0.0088	0.0075
Earth	47755-12-30 14:53 G	19163579.00	19163579.12	19163579.28	0.0088	0.0075 *
Venus	47776-08-19 07:55 G	19171116.81	19171116.83	19171116.86	0.0088	0.0087
Venus	47777-04-01 20:24 G	19171342.26	19171342.35	19171342.46	0.0088	0.0077
Venus	47777-11-13 09:07 G	19171567.75	19171567.88	19171568.03	0.0088	0.0067
Venus	47778-06-26 21:50 G	19171793.25	19171793.41	19171793.59	0.0088	0.0057
Venus	47779-02-07 10:19 G	19172018.76	19172018.93	19172019.13	0.0088	0.0047
Venus	47779-09-20 23:02 G	19172244.27	19172244.46	19172244.67	0.0088	0.0037
Venus	47780-05-03 11:46 G	19172469.79	19172469.99	19172470.21	0.0088	0.0026
Venus	47780-12-15 00:43 G	19172695.32	19172695.53	19172695.75	0.0088	0.0016
Venus	47781-07-28 13:26 G	19172920.84	19172921.06	19172921.28	0.0088	0.0006
Venus	47782-03-11 02:10 G	19173146.37	19173146.59	19173146.81	0.0088	0.0005
Venus	47782-10-22 14:53 G	19173371.90	19173372.12	19173372.34	0.0088	0.0015



Venus	47783-06-05 03:36 G	19173597.44	19173597.65	19173597.86	0.0088	0.0025
Venus	47784-01-16 16:05 G	19173822.98	19173823.17	19173823.39	0.0088	0.0036
Venus	47784-08-29 04:48 G	19174048.53	19174048.70	19174048.90	0.0088	0.0046
Venus	47785-04-11 17:31 G	19174274.08	19174274.23	19174274.42	0.0088	0.0056
Venus	47785-11-23 06:29 G	19174499.64	19174499.77	19174499.92	0.0088	0.0066
Venus	47786-07-06 19:12 G	19174725.20	19174725.30	19174725.42	0.0088	0.0076
Venus	47787-02-17 07:55 G	19174950.80	19174950.83	19174950.88	0.0088	0.0086
Saturn	47796-03-18 15:07 G	19178267.86	19178268.13	19178268.50	0.0088	0.0079
Mars	47797-04-11 21:50 G	19178657.20	19178657.41	19178657.67	0.0088	0.0060
Mars	47799-03-08 00:00 G	19179352.22	19179352.50	19179352.80	0.0088	0.0041
Mercury	47816-07-13 22:19 G	19185689.35	19185689.43	19185689.54	0.0089	0.0078
Mercury	47816-10-10 01:55 G	19185777.47	19185777.58	19185777.73	0.0089	0.0067
Mercury	47817-01-06 06:00 G	19185865.60	19185865.75	19185865.91	0.0089	0.0055
Mercury	47817-04-04 09:36 G	19185953.74	19185953.90	19185954.09	0.0089	0.0044
Mercury	47817-07-01 13:41 G	19186041.89	19186042.07	19186042.26	0.0089	0.0032
Mercury	47817-09-27 17:17 G	19186130.03	19186130.22	19186130.42	0.0089	0.0021
Mercury	47817-12-24 21:07 G	19186218.19	19186218.38	19186218.58	0.0089	0.0009
Mercury	47818-03-23 00:58 G	19186306.34	19186306.54	19186306.74	0.0089	0.0003
Mercury	47818-06-19 04:34 G	19186394.50	19186394.69	19186394.89	0.0089	0.0014
Mercury	47818-09-15 08:24 G	19186482.66	19186482.85	19186483.04	0.0089	0.0026
Mercury	47818-12-12 12:00 G	19186570.83	19186571.00	19186571.19	0.0089	0.0037
Mercury	47819-03-10 15:50 G	19186659.00	19186659.16	19186659.33	0.0089	0.0049
Mercury	47819-06-06 19:26 G	19186747.18	19186747.31	19186747.47	0.0089	0.0061
Mercury	47819-09-02 23:17 G	19186835.37	19186835.47	19186835.60	0.0089	0.0072
Mercury	47819-11-30 02:53 G	19186923.57	19186923.62	19186923.70	0.0089	0.0084
Moon	47833-06-19 17:46 G	19191874.12	19191874.24	19191874.41	0.0089	0.0074
Earth	47833-06-19 21:36 G	19191874.30	19191874.40	19191874.54	0.0089	0.0078 *
Earth	47834-06-22 08:53 G	19192241.68	19192241.87	19192242.10	0.0089	0.0051
Moon	47834-06-22 12:00 G	19192241.81	19192242.00	19192242.22	0.0089	0.0055 *
Moon	47835-06-24 18:29 G	19192609.03	19192609.27	19192609.52	0.0089	0.0020

Earth	47835-06-24 20:24 G	19192609.12	19192609.35	19192609.61	0.0089	0.0025 *
Earth	47836-06-26 08:10 G	19192976.59	19192976.84	19192977.10	0.0089	0.0004
Moon	47836-06-26 09:36 G	19192976.64	19192976.90	19192977.16	0.0089	0.0000 *
Earth	47837-06-28 19:26 G	19193344.08	19193344.31	19193344.56	0.0089	0.0031
Moon	47837-06-28 19:55 G	19193344.11	19193344.33	19193344.57	0.0089	0.0035 *
Moon	47838-07-01 05:31 G	19193711.53	19193711.73	19193711.95	0.0089	0.0055
Earth	47838-07-01 06:43 G	19193711.60	19193711.78	19193711.99	0.0089	0.0059 *
Earth	47839-07-03 18:00 G	19194079.20	19194079.25	19194079.34	0.0089	0.0086
Venus	47859-05-20 03:50 G	19201339.58	19201339.66	19201339.77	0.0090	0.0081
Venus	47859-12-31 17:02 G	19201565.10	19201565.21	19201565.37	0.0090	0.0071
Venus	47860-08-13 06:29 G	19201790.63	19201790.77	19201790.95	0.0090	0.0060
Venus	47861-03-26 19:55 G	19202016.16	19202016.33	19202016.53	0.0090	0.0049
Venus	47861-11-07 09:36 G	19202241.71	19202241.90	19202242.10	0.0090	0.0038
Venus	47862-06-20 23:17 G	19202467.26	19202467.47	19202467.68	0.0090	0.0027
Venus	47863-02-01 12:14 G	19202692.81	19202693.01	19202693.24	0.0090	0.0017
Venus	47863-09-15 01:41 G	19202918.36	19202918.57	19202918.80	0.0090	0.0006
Venus	47864-04-27 15:07 G	19203143.91	19203144.13	19203144.35	0.0090	0.0005
Venus	47864-12-09 04:19 G	19203369.47	19203369.68	19203369.90	0.0090	0.0016
Venus	47865-07-22 18:00 G	19203595.04	19203595.25	19203595.45	0.0090	0.0027
Venus	47866-03-05 06:58 G	19203820.60	19203820.79	19203821.00	0.0090	0.0038
Venus	47866-10-16 20:10 G	19204046.17	19204046.34	19204046.54	0.0090	0.0049
Venus	47867-05-30 09:22 G	19204271.74	19204271.89	19204272.07	0.0090	0.0060
Venus	47868-01-10 22:48 G	19204497.33	19204497.45	19204497.60	0.0090	0.0070
Venus	47868-08-23 12:00 G	19204722.92	19204723.00	19204723.11	0.0090	0.0081
Mars	47879-03-18 15:07 G	19208581.85	19208582.13	19208582.42	0.0089	0.0034
Mars	47881-02-10 03:36 G	19209276.47	19209276.65	19209276.88	0.0089	0.0067
Mercury	47896-08-13 10:48 G	19214939.94	19214939.95	19214939.96	0.0089	0.0088
Mercury	47896-11-09 11:46 G	19215027.95	19215027.99	19215028.06	0.0089	0.0081
Mercury	47897-02-05 13:12 G	19215115.98	19215116.05	19215116.13	0.0089	0.0073
Mercury	47897-05-04 14:38 G	19215204.02	19215204.11	19215204.20	0.0089	0.0065

Mercury	47897-07-31 15:36 G	19215292.06	19215292.15	19215292.26	0.0089	0.0058
Mercury	47897-10-27 17:02 G	19215380.11	19215380.21	19215380.32	0.0089	0.0050
Mercury	47898-01-23 18:29 G	19215468.15	19215468.27	19215468.38	0.0089	0.0042
Mercury	47898-04-21 19:26 G	19215556.20	19215556.31	19215556.44	0.0089	0.0035
Mercury	47898-07-18 20:53 G	19215644.25	19215644.37	19215644.50	0.0089	0.0027
Mercury	47898-10-14 22:19 G	19215732.30	19215732.43	19215732.55	0.0089	0.0019
Mercury	47899-01-10 23:31 G	19215820.35	19215820.48	19215820.61	0.0089	0.0011
Mercury	47899-04-09 00:43 G	19215908.40	19215908.53	19215908.66	0.0089	0.0004
Mercury	47899-07-06 01:55 G	19215996.45	19215996.58	19215996.71	0.0089	0.0005
Mercury	47899-10-02 03:07 G	19216084.51	19216084.63	19216084.77	0.0089	0.0012
Mercury	47899-12-29 04:19 G	19216172.56	19216172.68	19216172.82	0.0089	0.0020
Mercury	47900-03-27 05:46 G	19216260.62	19216260.74	19216260.87	0.0089	0.0027
Mercury	47900-06-23 06:58 G	19216348.67	19216348.79	19216348.91	0.0089	0.0035
Mercury	47900-09-19 08:10 G	19216436.73	19216436.84	19216436.96	0.0089	0.0042
Mercury	47900-12-16 09:36 G	19216524.79	19216524.90	19216525.01	0.0089	0.0050
Mercury	47901-03-14 10:34 G	19216612.85	19216612.94	19216613.05	0.0089	0.0058
Mercury	47901-06-10 11:46 G	19216700.92	19216700.99	19216701.09	0.0089	0.0066
Mercury	47901-09-06 13:12 G	19216788.98	19216789.05	19216789.13	0.0089	0.0073
Mercury	47901-12-03 14:24 G	19216877.06	19216877.10	19216877.16	0.0089	0.0081
Mercury	47902-03-01 15:50 G	19216965.15	19216965.16	19216965.17	0.0089	0.0088
Moon	47914-12-20 09:50 G	19221641.81	19221641.91	19221642.06	0.0088	0.0077
Earth	47914-12-20 13:41 G	19221641.94	19221642.07	19221642.24	0.0088	0.0073 *
Earth	47915-12-23 01:55 G	19222009.37	19222009.58	19222009.81	0.0088	0.0046
Moon	47915-12-23 05:02 G	19222009.49	19222009.71	19222009.96	0.0088	0.0041 *
Moon	47916-12-24 11:02 G	19222376.72	19222376.96	19222377.21	0.0088	0.0023
Earth	47916-12-24 13:55 G	19222376.83	19222377.08	19222377.34	0.0088	0.0019 *
Earth	47917-12-27 01:41 G	19222744.32	19222744.57	19222744.84	0.0088	0.0009
Moon	47917-12-27 03:22 G	19222744.37	19222744.64	19222744.90	0.0088	0.0013 *
Moon	47918-12-29 12:58 G	19223111.82	19223112.04	19223112.29	0.0088	0.0032
Earth	47918-12-29 13:26 G	19223111.84	19223112.06	19223112.32	0.0088	0.0036 *

Moon	47920-01-01 00:43 G	19223479.37	19223479.53	19223479.72	0.0088	0.0066
Earth	47920-01-01 01:12 G	19223479.39	19223479.55	19223479.76	0.0088	0.0062 *
Moon	47921-01-02 15:22 G	19223847.09	19223847.14	19223847.23	0.0088	0.0085
Venus	47941-07-06 08:38 G	19231336.77	19231336.86	19231336.96	0.0088	0.0078
Venus	47942-02-16 21:07 G	19231562.25	19231562.38	19231562.53	0.0088	0.0068
Venus	47942-09-30 09:50 G	19231787.75	19231787.91	19231788.08	0.0088	0.0058
Venus	47943-05-13 22:34 G	19232013.26	19232013.44	19232013.63	0.0088	0.0048
Venus	47943-12-25 11:17 G	19232238.78	19232238.97	19232239.17	0.0088	0.0038
Venus	47944-08-07 00:00 G	19232464.29	19232464.50	19232464.71	0.0088	0.0028
Venus	47945-03-20 12:29 G	19232689.81	19232690.02	19232690.25	0.0088	0.0018
Venus	47945-11-01 01:12 G	19232915.34	19232915.55	19232915.78	0.0088	0.0008
Venus	47946-06-14 14:10 G	19233140.87	19233141.09	19233141.31	0.0088	0.0003
Venus	47947-01-26 02:53 G	19233366.40	19233366.62	19233366.84	0.0088	0.0013
Venus	47947-09-08 15:36 G	19233591.93	19233592.15	19233592.36	0.0088	0.0023
Venus	47948-04-21 03:50 G	19233817.47	19233817.66	19233817.88	0.0088	0.0034
Venus	47948-12-02 16:48 G	19234043.02	19234043.20	19234043.40	0.0088	0.0044
Venus	47949-07-16 05:31 G	19234268.57	19234268.73	19234268.92	0.0088	0.0054
Venus	47950-02-26 18:14 G	19234494.12	19234494.26	19234494.42	0.0088	0.0064
Venus	47950-10-10 06:58 G	19234719.69	19234719.79	19234719.92	0.0088	0.0074
Venus	47951-05-23 19:41 G	19234945.27	19234945.32	19234945.40	0.0088	0.0084
Mars	47962-10-22 12:29 G	19239114.70	19239115.02	19239115.35	0.0088	0.0006
Mercury	47981-01-12 17:46 G	19245772.18	19245772.24	19245772.32	0.0089	0.0083
Mercury	47981-04-10 21:22 G	19245860.29	19245860.39	19245860.52	0.0089	0.0072
Mercury	47981-07-08 01:26 G	19245948.42	19245948.56	19245948.71	0.0089	0.0060
Mercury	47981-10-04 05:02 G	19246036.55	19246036.71	19246036.88	0.0089	0.0049
Mercury	47981-12-31 08:38 G	19246124.69	19246124.86	19246125.05	0.0089	0.0038
Mercury	47982-03-29 12:29 G	19246212.84	19246213.02	19246213.22	0.0089	0.0026
Mercury	47982-06-25 16:19 G	19246300.99	19246301.18	19246301.38	0.0089	0.0014
Mercury	47982-09-21 20:10 G	19246389.14	19246389.34	19246389.54	0.0089	0.0003
Mercury	47982-12-19 00:00 G	19246477.30	19246477.50	19246477.70	0.0089	0.0009

Mercury	47983-03-17 03:36 G	19246565.46	19246565.65	19246565.85	0.0089	0.0021
Mercury	47983-06-13 07:26 G	19246653.63	19246653.81	19246654.00	0.0089	0.0032
Mercury	47983-09-09 11:02 G	19246741.80	19246741.96	19246742.14	0.0089	0.0044
Mercury	47983-12-06 14:53 G	19246829.97	19246830.12	19246830.28	0.0089	0.0055
Mercury	47984-03-03 18:29 G	19246918.15	19246918.27	19246918.41	0.0089	0.0067
Mercury	47984-05-30 22:19 G	19247006.35	19247006.43	19247006.53	0.0089	0.0078
Moon	47998-06-22 18:29 G	19252142.12	19252142.27	19252142.47	0.0089	0.0064
Earth	47998-06-22 20:10 G	19252142.18	19252142.34	19252142.53	0.0089	0.0064 *
Earth	47999-06-25 07:26 G	19252509.59	19252509.81	19252510.06	0.0089	0.0037
Moon	47999-06-25 07:41 G	19252509.60	19252509.82	19252510.08	0.0089	0.0038 *
Earth	48000-06-26 19:12 G	19252877.05	19252877.30	19252877.56	0.0089	0.0010
Moon	48000-06-26 19:41 G	19252877.08	19252877.32	19252877.57	0.0089	0.0008 *

# 49TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 49th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	48001-06-29 04:05 G	19253244.43	19253244.67	19253244.94	0.0089	0.0018		
Earth	48001-06-29 06:29 G	19253244.53	19253244.77	19253245.03	0.0089	0.0018 *		
Earth	48002-07-01 17:46 G	19253612.04	19253612.24	19253612.48	0.0089	0.0046		
Moon	48002-07-01 20:38 G	19253612.16	19253612.36	19253612.59	0.0089	0.0047 *		
Moon	48003-07-04 01:55 G	19253979.43	19253979.58	19253979.75	0.0089	0.0071		
Earth	48003-07-04 05:31 G	19253979.59	19253979.73	19253979.88	0.0089	0.0073 *		

Venus	48023-08-22 15:07 G	19261334.07	19261334.13	19261334.24	0.0090	0.0083
Venus	48024-04-04 04:34 G	19261559.58	19261559.69	19261559.84	0.0090	0.0072
Venus	48024-11-15 18:14 G	19261785.10	19261785.26	19261785.42	0.0090	0.0061
Venus	48025-06-29 07:26 G	19262010.64	19262010.81	19262011.01	0.0090	0.0051
Venus	48026-02-09 20:53 G	19262236.19	19262236.37	19262236.58	0.0090	0.0040
Venus	48026-09-23 10:19 G	19262461.73	19262461.93	19262462.15	0.0090	0.0029
Venus	48027-05-06 23:46 G	19262687.28	19262687.49	19262687.71	0.0090	0.0018
Venus	48027-12-18 13:12 G	19262912.83	19262913.05	19262913.27	0.0090	0.0008
Venus	48028-07-31 02:38 G	19263138.39	19263138.61	19263138.83	0.0090	0.0004
Venus	48029-03-13 15:50 G	19263363.95	19263364.16	19263364.38	0.0090	0.0014
Venus	48029-10-25 05:17 G	19263589.51	19263589.72	19263589.93	0.0090	0.0025
Venus	48030-06-07 18:29 G	19263815.08	19263815.27	19263815.48	0.0090	0.0036
Venus	48031-01-19 07:41 G	19264040.65	19264040.82	19264041.02	0.0090	0.0046
Venus	48031-09-01 20:53 G	19264266.22	19264266.37	19264266.55	0.0090	0.0057
Venus	48032-04-14 10:05 G	19264491.79	19264491.92	19264492.08	0.0090	0.0068
Venus	48032-11-25 23:31 G	19264717.38	19264717.48	19264717.60	0.0090	0.0078
Venus	48033-07-09 12:43 G	19264943.02	19264943.03	19264943.08	0.0090	0.0089
Mars	48042-11-01 12:14 G	19268344.86	19268345.01	19268345.24	0.0089	0.0071
Mars	48044-09-26 02:53 G	19269039.34	19269039.62	19269039.91	0.0089	0.0032
Mercury	48061-05-11 10:48 G	19275110.91	19275110.95	19275110.99	0.0089	0.0084
Mercury	48061-08-07 11:46 G	19275198.94	19275198.99	19275199.07	0.0089	0.0077
Mercury	48061-11-03 13:12 G	19275286.98	19275287.05	19275287.14	0.0089	0.0069
Mercury	48062-01-30 14:38 G	19275375.02	19275375.11	19275375.20	0.0089	0.0061
Mercury	48062-04-28 15:36 G	19275463.06	19275463.15	19275463.27	0.0089	0.0054
Mercury	48062-07-25 17:02 G	19275551.10	19275551.21	19275551.33	0.0089	0.0046
Mercury	48062-10-21 18:29 G	19275639.15	19275639.27	19275639.38	0.0089	0.0038
Mercury	48063-01-17 19:26 G	19275727.20	19275727.31	19275727.44	0.0089	0.0031
Mercury	48063-04-15 20:53 G	19275815.25	19275815.37	19275815.50	0.0089	0.0023
Mercury	48063-07-12 22:05 G	19275903.30	19275903.42	19275903.55	0.0089	0.0015
Mercury	48063-10-08 23:31 G	19275991.35	19275991.48	19275991.61	0.0089	0.0008

Mercury	48064-01-05 00:43 G	19276079.40	19276079.53	19276079.66	0.0089	0.0000
Mercury	48064-04-02 01:55 G	19276167.45	19276167.58	19276167.71	0.0089	0.0008
Mercury	48064-06-29 03:07 G	19276255.51	19276255.63	19276255.76	0.0089	0.0016
Mercury	48064-09-25 04:19 G	19276343.56	19276343.68	19276343.81	0.0089	0.0024
Mercury	48064-12-22 05:46 G	19276431.62	19276431.74	19276431.86	0.0089	0.0031
Mercury	48065-03-20 06:58 G	19276519.68	19276519.79	19276519.91	0.0089	0.0039
Mercury	48065-06-16 08:10 G	19276607.74	19276607.84	19276607.96	0.0089	0.0046
Mercury	48065-09-12 09:22 G	19276695.80	19276695.89	19276696.00	0.0089	0.0054
Mercury	48065-12-09 10:34 G	19276783.86	19276783.94	19276784.04	0.0089	0.0062
Mercury	48066-03-07 12:00 G	19276871.92	19276872.00	19276872.08	0.0089	0.0069
Mercury	48066-06-03 13:12 G	19276959.99	19276960.05	19276960.12	0.0089	0.0077
Mercury	48066-08-30 14:24 G	19277048.07	19277048.10	19277048.15	0.0089	0.0085
Jupiter	48077-06-06 02:38 G	19280980.08	19280980.61	19280981.16	0.0088	0.0014
Earth	48078-12-19 23:46 G	19281542.44	19281542.49	19281542.55	0.0088	0.0086
Moon	48078-12-20 02:38 G	19281542.59	19281542.61	19281542.65	0.0088	0.0088
Moon	48079-12-22 09:36 G	19281909.73	19281909.90	19281910.11	0.0088	0.0058
Earth	48079-12-22 11:17 G	19281909.81	19281909.97	19281910.19	0.0088	0.0060 *
Earth	48080-12-24 00:00 G	19282277.26	19282277.50	19282277.74	0.0088	0.0032
Moon	48080-12-24 01:12 G	19282277.30	19282277.55	19282277.80	0.0088	0.0033 *
Earth	48081-12-26 12:00 G	19282644.74	19282645.00	19282645.26	0.0088	0.0005
Moon	48081-12-26 12:29 G	19282644.77	19282645.02	19282645.27	0.0088	0.0003 *
Moon	48082-12-28 22:05 G	19283012.17	19283012.42	19283012.69	0.0088	0.0021
Earth	48082-12-29 00:00 G	19283012.25	19283012.50	19283012.75	0.0088	0.0022 *
Earth	48083-12-31 11:31 G	19283379.78	19283379.98	19283380.21	0.0088	0.0050
Moon	48083-12-31 13:55 G	19283379.88	19283380.08	19283380.30	0.0088	0.0050 *
Moon	48085-01-01 19:55 G	19283747.20	19283747.33	19283747.48	0.0088	0.0074
Earth	48085-01-01 23:17 G	19283747.36	19283747.47	19283747.62	0.0088	0.0076 *
Venus	48105-10-08 19:41 G	19291331.25	19291331.32	19291331.44	0.0088	0.0080
Venus	48106-05-22 08:24 G	19291556.74	19291556.85	19291557.01	0.0088	0.0070
Venus	48107-01-02 21:22 G	19291782.25	19291782.39	19291782.57	0.0088	0.0060

Venus	48107-08-16 10:05 G	19292007.75	19292007.92	19292008.12	0.0088	0.0050
Venus	48108-03-28 22:34 G	19292233.26	19292233.44	19292233.66	0.0088	0.0040
Venus	48108-11-09 11:31 G	19292458.78	19292458.98	19292459.20	0.0088	0.0030
Venus	48109-06-23 00:14 G	19292684.30	19292684.51	19292684.73	0.0088	0.0020
Venus	48110-02-03 12:58 G	19292909.83	19292910.04	19292910.26	0.0088	0.0009
Venus	48110-09-17 01:41 G	19293135.35	19293135.57	19293135.79	0.0088	0.0001
Venus	48111-04-30 14:24 G	19293360.88	19293361.10	19293361.32	0.0088	0.0011
Venus	48111-12-12 03:07 G	19293586.42	19293586.63	19293586.85	0.0088	0.0021
Venus	48112-07-24 15:50 G	19293811.96	19293812.16	19293812.37	0.0088	0.0031
Venus	48113-03-07 04:34 G	19294037.50	19294037.69	19294037.89	0.0088	0.0041
Venus	48113-10-18 17:17 G	19294263.04	19294263.22	19294263.40	0.0088	0.0051
Venus	48114-06-01 06:00 G	19294488.59	19294488.75	19294488.91	0.0088	0.0061
Venus	48115-01-12 18:58 G	19294714.16	19294714.29	19294714.41	0.0088	0.0071
Venus	48115-08-26 07:26 G	19294939.74	19294939.81	19294939.90	0.0088	0.0081
Mars	48126-06-07 01:41 G	19298877.28	19298877.57	19298877.88	0.0088	0.0029
Mars	48128-05-02 02:38 G	19299572.46	19299572.61	19299572.82	0.0088	0.0073
Mercury	48145-10-10 16:19 G	19305943.10	19305943.18	19305943.29	0.0089	0.0078
Mercury	48146-01-06 20:24 G	19306031.22	19306031.35	19306031.49	0.0089	0.0066
Mercury	48146-04-05 00:00 G	19306119.36	19306119.50	19306119.67	0.0089	0.0055
Mercury	48146-07-02 03:50 G	19306207.49	19306207.66	19306207.84	0.0089	0.0043
Mercury	48146-09-28 07:26 G	19306295.64	19306295.81	19306296.01	0.0089	0.0032
Mercury	48146-12-25 11:31 G	19306383.79	19306383.98	19306384.17	0.0089	0.0020
Mercury	48147-03-23 15:07 G	19306471.94	19306472.13	19306472.33	0.0089	0.0009
Mercury	48147-06-19 18:58 G	19306560.09	19306560.29	19306560.49	0.0089	0.0003
Mercury	48147-09-15 22:48 G	19306648.25	19306648.45	19306648.64	0.0089	0.0015
Mercury	48147-12-13 02:10 G	19306736.42	19306736.59	19306736.79	0.0089	0.0027
Mercury	48148-03-10 06:00 G	19306824.58	19306824.75	19306824.94	0.0089	0.0038
Mercury	48148-06-06 09:36 G	19306912.75	19306912.90	19306913.08	0.0089	0.0050
Mercury	48148-09-02 13:26 G	19307000.93	19307001.06	19307001.22	0.0089	0.0061
Mercury	48148-11-29 17:02 G	19307089.12	19307089.21	19307089.34	0.0089	0.0073



Mercury	48149-02-25 20:53 G	19307177.33	19307177.37	19307177.45	0.0089	0.0084
Moon	48162-06-23 06:58 G	19312042.67	19312042.79	19312042.97	0.0089	0.0073
Earth	48162-06-23 07:12 G	19312042.71	19312042.80	19312042.95	0.0089	0.0078 *
Earth	48163-06-25 18:43 G	19312410.09	19312410.28	19312410.51	0.0089	0.0051
Moon	48163-06-25 20:38 G	19312410.17	19312410.36	19312410.56	0.0089	0.0055 *
Moon	48164-06-27 04:05 G	19312777.42	19312777.67	19312777.93	0.0089	0.0018
Earth	48164-06-27 06:14 G	19312777.52	19312777.76	19312778.02	0.0089	0.0023 *
Earth	48165-06-29 17:46 G	19313144.99	19313145.24	19313145.50	0.0089	0.0005
Moon	48165-06-29 21:07 G	19313145.13	19313145.38	19313145.63	0.0089	0.0001 *
Moon	48166-07-02 01:12 G	19313512.34	19313512.55	19313512.81	0.0089	0.0038
Earth	48166-07-02 05:02 G	19313512.48	19313512.71	19313512.96	0.0089	0.0032 *
Earth	48167-07-04 16:05 G	19313880.01	19313880.17	19313880.38	0.0089	0.0060
Moon	48167-07-04 19:55 G	19313880.14	19313880.33	19313880.54	0.0089	0.0055 *
Earth	48168-07-06 03:36 G	19314247.63	19314247.65	19314247.73	0.0089	0.0088
Venus	48187-11-25 02:24 G	19321328.54	19321328.60	19321328.69	0.0090	0.0084
Venus	48188-07-07 15:36 G	19321554.05	19321554.15	19321554.30	0.0090	0.0074
Venus	48189-02-18 05:17 G	19321779.58	19321779.72	19321779.89	0.0090	0.0063
Venus	48189-10-01 18:14 G	19322005.11	19322005.26	19322005.46	0.0090	0.0053
Venus	48190-05-15 07:55 G	19322230.65	19322230.83	19322231.04	0.0090	0.0042
Venus	48190-12-26 21:36 G	19322456.20	19322456.40	19322456.61	0.0090	0.0031
Venus	48191-08-09 10:48 G	19322681.75	19322681.95	19322682.17	0.0090	0.0020
Venus	48192-03-22 00:14 G	19322907.30	19322907.51	19322907.73	0.0090	0.0010
Venus	48192-11-02 13:41 G	19323132.85	19323133.07	19323133.29	0.0090	0.0002
Venus	48193-06-16 03:22 G	19323358.42	19323358.64	19323358.85	0.0090	0.0012
Venus	48194-01-27 16:34 G	19323583.98	19323584.19	19323584.41	0.0090	0.0023
Venus	48194-09-10 05:31 G	19323809.55	19323809.73	19323809.95	0.0090	0.0034
Venus	48195-04-23 19:12 G	19324035.11	19324035.30	19324035.49	0.0090	0.0044
Venus	48195-12-05 08:10 G	19324260.69	19324260.84	19324261.03	0.0090	0.0055
Venus	48196-07-17 21:50 G	19324486.27	19324486.41	19324486.57	0.0090	0.0065
Venus	48197-02-28 10:48 G	19324711.86	19324711.95	19324712.09	0.0090	0.0076

Venus	48197-10-12 00:14 G	19324937.47	19324937.51	19324937.59	0.0090	0.0086
Mars	48208-05-13 01:41 G	19328802.27	19328802.57	19328802.89	0.0089	0.0005
Mercury	48225-11-11 09:22 G	19335193.88	19335193.89	19335193.91	0.0089	0.0088
Mercury	48226-02-07 10:34 G	19335281.90	19335281.94	19335282.00	0.0089	0.0081
Mercury	48226-05-06 11:46 G	19335369.93	19335369.99	19335370.07	0.0089	0.0073
Mercury	48226-08-02 13:12 G	19335457.97	19335458.05	19335458.14	0.0089	0.0065
Mercury	48226-10-29 14:24 G	19335546.01	19335546.10	19335546.21	0.0089	0.0058
Mercury	48227-01-25 15:36 G	19335634.05	19335634.15	19335634.27	0.0089	0.0050
Mercury	48227-04-23 17:02 G	19335722.10	19335722.21	19335722.33	0.0089	0.0042
Mercury	48227-07-20 18:14 G	19335810.14	19335810.26	19335810.38	0.0089	0.0035
Mercury	48227-10-16 19:26 G	19335898.19	19335898.31	19335898.44	0.0089	0.0027
Mercury	48228-01-12 20:53 G	19335986.24	19335986.37	19335986.50	0.0089	0.0019
Mercury	48228-04-09 22:05 G	19336074.29	19336074.42	19336074.55	0.0089	0.0011
Mercury	48228-07-06 23:17 G	19336162.34	19336162.47	19336162.61	0.0089	0.0005
Mercury	48228-10-03 00:43 G	19336250.40	19336250.53	19336250.66	0.0089	0.0004
Mercury	48228-12-30 01:55 G	19336338.45	19336338.58	19336338.71	0.0089	0.0012
Mercury	48229-03-28 03:07 G	19336426.50	19336426.63	19336426.76	0.0089	0.0019
Mercury	48229-06-24 04:19 G	19336514.56	19336514.68	19336514.81	0.0089	0.0027
Mercury	48229-09-20 05:31 G	19336602.62	19336602.73	19336602.86	0.0089	0.0035
Mercury	48229-12-17 06:43 G	19336690.68	19336690.78	19336690.91	0.0089	0.0043
Mercury	48230-03-15 08:10 G	19336778.74	19336778.84	19336778.95	0.0089	0.0050
Mercury	48230-06-11 09:22 G	19336866.80	19336866.89	19336866.99	0.0089	0.0058
Mercury	48230-09-07 10:34 G	19336954.86	19336954.94	19336955.04	0.0089	0.0065
Mercury	48230-12-04 12:00 G	19337042.93	19337043.00	19337043.07	0.0089	0.0073
Mercury	48231-03-02 12:58 G	19337131.00	19337131.04	19337131.11	0.0089	0.0081
Mercury	48231-05-29 14:38 G	19337219.10	19337219.11	19337219.12	0.0089	0.0088
Earth	48243-12-23 21:07 G	19341810.26	19341810.38	19341810.55	0.0088	0.0072
Moon	48243-12-23 21:07 G	19341810.26	19341810.38	19341810.54	0.0088	0.0075 *
Earth	48244-12-25 09:22 G	19342177.68	19342177.89	19342178.13	0.0088	0.0045
Moon	48244-12-25 10:19 G	19342177.72	19342177.93	19342178.16	0.0088	0.0041 *

Moon	48245-12-27 19:12 G	19342545.06	19342545.30	19342545.58	0.0088	0.0023
Earth	48245-12-27 21:36 G	19342545.16	19342545.40	19342545.67	0.0088	0.0018 *
Earth	48246-12-30 09:50 G	19342912.65	19342912.91	19342913.17	0.0088	0.0009
Moon	48246-12-30 12:43 G	19342912.79	19342913.03	19342913.29	0.0088	0.0013 *
Moon	48248-01-01 18:00 G	19343280.02	19343280.25	19343280.51	0.0088	0.0032
Earth	48248-01-01 21:36 G	19343280.17	19343280.40	19343280.64	0.0088	0.0036 *
Earth	48249-01-03 09:07 G	19343647.72	19343647.88	19343648.08	0.0088	0.0064
Moon	48249-01-03 12:43 G	19343647.89	19343648.03	19343648.22	0.0088	0.0068 *
Moon	48250-01-05 18:14 G	19344015.23	19344015.26	19344015.32	0.0088	0.0086
Venus	48270-01-11 07:26 G	19351325.75	19351325.81	19351325.92	0.0088	0.0081
Venus	48270-08-24 20:10 G	19351551.23	19351551.34	19351551.49	0.0088	0.0071
Venus	48271-04-07 08:53 G	19351776.73	19351776.87	19351777.05	0.0088	0.0061
Venus	48271-11-18 21:50 G	19352002.24	19352002.41	19352002.60	0.0088	0.0051
Venus	48272-07-01 10:34 G	19352227.76	19352227.94	19352228.15	0.0088	0.0041
Venus	48273-02-11 23:17 G	19352453.27	19352453.47	19352453.69	0.0088	0.0031
Venus	48273-09-25 12:00 G	19352678.79	19352679.00	19352679.22	0.0088	0.0021
Venus	48274-05-09 00:43 G	19352904.31	19352904.53	19352904.75	0.0088	0.0011
Venus	48274-12-20 13:41 G	19353129.85	19353130.07	19353130.29	0.0088	0.0002
Venus	48275-08-03 02:10 G	19353355.37	19353355.59	19353355.81	0.0088	0.0009
Venus	48276-03-15 14:53 G	19353580.90	19353581.12	19353581.34	0.0088	0.0019
Venus	48276-10-27 03:22 G	19353806.44	19353806.64	19353806.85	0.0088	0.0029
Venus	48277-06-09 16:05 G	19354031.98	19354032.17	19354032.37	0.0088	0.0039
Venus	48278-01-21 04:48 G	19354257.52	19354257.70	19354257.89	0.0088	0.0049
Venus	48278-09-03 17:17 G	19354483.07	19354483.22	19354483.40	0.0088	0.0059
Venus	48279-04-17 06:00 G	19354708.63	19354708.75	19354708.90	0.0088	0.0069
Venus	48279-11-28 18:43 G	19354934.20	19354934.28	19354934.39	0.0088	0.0079
Mars	48290-01-20 16:05 G	19358639.98	19358640.17	19358640.41	0.0088	0.0065
Mars	48291-12-16 14:24 G	19359334.83	19359335.10	19359335.41	0.0088	0.0037
Mercury	48310-04-12 11:46 G	19366025.93	19366025.99	19366026.06	0.0089	0.0083
Mercury	48310-07-09 15:07 G	19366114.03	19366114.13	19366114.26	0.0089	0.0072

Mercury	48310-10-05 18:58 G	19366202.16	19366202.29	19366202.45	0.0089	0.0060
Mercury	48311-01-01 22:48 G	19366290.30	19366290.45	19366290.63	0.0089	0.0049
Mercury	48311-03-31 02:24 G	19366378.44	19366378.60	19366378.80	0.0089	0.0038
Mercury	48311-06-27 06:29 G	19366466.58	19366466.77	19366466.96	0.0089	0.0026
Mercury	48311-09-23 10:05 G	19366554.74	19366554.92	19366555.13	0.0089	0.0015
Mercury	48311-12-20 14:10 G	19366642.89	19366643.09	19366643.29	0.0089	0.0003
Mercury	48312-03-17 17:46 G	19366731.05	19366731.24	19366731.44	0.0089	0.0009
Mercury	48312-06-13 21:22 G	19366819.21	19366819.39	19366819.59	0.0089	0.0021
Mercury	48312-09-10 01:12 G	19366907.37	19366907.55	19366907.74	0.0089	0.0032
Mercury	48312-12-07 04:48 G	19366995.54	19366995.70	19366995.89	0.0089	0.0044
Mercury	48313-03-05 08:53 G	19367083.72	19367083.87	19367084.02	0.0089	0.0055
Mercury	48313-06-01 12:14 G	19367171.90	19367172.01	19367172.16	0.0089	0.0067
Mercury	48313-08-28 16:19 G	19367260.09	19367260.18	19367260.27	0.0089	0.0078
Moon	48327-06-27 02:10 G	19372310.44	19372310.59	19372310.79	0.0089	0.0065
Earth	48327-06-27 05:17 G	19372310.57	19372310.72	19372310.92	0.0089	0.0065 *
Earth	48328-06-28 17:02 G	19372677.98	19372678.21	19372678.45	0.0089	0.0036
Moon	48328-06-28 20:24 G	19372678.12	19372678.35	19372678.58	0.0089	0.0036 *
Moon	48329-07-01 00:29 G	19373045.28	19373045.52	19373045.78	0.0089	0.0009
Earth	48329-07-01 04:19 G	19373045.43	19373045.68	19373045.94	0.0089	0.0009 *
Earth	48330-07-03 15:22 G	19373412.90	19373413.14	19373413.40	0.0089	0.0019
Moon	48330-07-03 18:29 G	19373413.03	19373413.27	19373413.54	0.0089	0.0020 *
Moon	48331-07-06 00:14 G	19373780.32	19373780.51	19373780.74	0.0089	0.0047
Earth	48331-07-06 02:53 G	19373780.42	19373780.62	19373780.85	0.0089	0.0047 *
Earth	48332-07-07 13:55 G	19374147.97	19374148.08	19374148.25	0.0089	0.0075
Moon	48332-07-07 15:50 G	19374148.03	19374148.16	19374148.33	0.0089	0.0073 *
Venus	48352-02-28 13:55 G	19381323.02	19381323.08	19381323.15	0.0090	0.0085
Venus	48352-10-11 02:53 G	19381548.52	19381548.62	19381548.76	0.0090	0.0075
Venus	48353-05-24 16:05 G	19381774.04	19381774.17	19381774.35	0.0090	0.0065
Venus	48354-01-05 05:46 G	19381999.58	19381999.74	19381999.93	0.0090	0.0054
Venus	48354-08-18 18:58 G	19382225.11	19382225.29	19382225.50	0.0090	0.0044

Venus	48355-04-01 08:24 G	19382450.65	19382450.85	19382451.06	0.0090	0.0033
Venus	48355-11-12 21:36 G	19382676.20	19382676.40	19382676.63	0.0090	0.0023
Venus	48356-06-25 11:17 G	19382901.76	19382901.97	19382902.19	0.0090	0.0012
Venus	48357-02-06 00:43 G	19383127.31	19383127.53	19383127.75	0.0090	0.0001
Venus	48357-09-19 13:55 G	19383352.87	19383353.08	19383353.30	0.0090	0.0010
Venus	48358-05-03 03:07 G	19383578.43	19383578.63	19383578.86	0.0090	0.0021
Venus	48358-12-14 16:34 G	19383803.99	19383804.19	19383804.41	0.0090	0.0031
Venus	48359-07-28 06:00 G	19384029.57	19384029.75	19384029.96	0.0090	0.0041
Venus	48360-03-09 19:26 G	19384255.14	19384255.31	19384255.49	0.0090	0.0052
Venus	48360-10-21 08:24 G	19384480.71	19384480.85	19384481.03	0.0090	0.0063
Venus	48361-06-03 22:05 G	19384706.30	19384706.42	19384706.56	0.0090	0.0073
Venus	48362-01-15 11:31 G	19384931.91	19384931.98	19384932.06	0.0090	0.0083
Mars	48371-12-27 20:24 G	19388565.10	19388565.35	19388565.65	0.0089	0.0042
Mars	48373-11-21 12:29 G	19389259.83	19389260.02	19389260.28	0.0089	0.0063
Mercury	48390-08-09 09:07 G	19395364.86	19395364.88	19395364.93	0.0089	0.0085
Mercury	48390-11-05 10:34 G	19395452.88	19395452.94	19395453.01	0.0089	0.0077
Mercury	48391-02-01 12:00 G	19395540.92	19395541.00	19395541.08	0.0089	0.0069
Mercury	48391-04-30 12:58 G	19395628.96	19395629.04	19395629.14	0.0089	0.0062
Mercury	48391-07-27 14:24 G	19395717.00	19395717.10	19395717.21	0.0089	0.0054
Mercury	48391-10-23 15:22 G	19395805.04	19395805.14	19395805.27	0.0089	0.0047
Mercury	48392-01-19 16:48 G	19395893.09	19395893.20	19395893.33	0.0089	0.0039
Mercury	48392-04-16 18:14 G	19395981.14	19395981.26	19395981.38	0.0089	0.0031
Mercury	48392-07-13 19:26 G	19396069.19	19396069.31	19396069.44	0.0089	0.0023
Mercury	48392-10-09 20:38 G	19396157.24	19396157.36	19396157.49	0.0089	0.0016
Mercury	48393-01-05 22:05 G	19396245.29	19396245.42	19396245.55	0.0089	0.0008
Mercury	48393-04-03 23:17 G	19396333.34	19396333.47	19396333.60	0.0089	0.0000
Mercury	48393-07-01 00:29 G	19396421.39	19396421.52	19396421.65	0.0089	0.0008
Mercury	48393-09-27 01:41 G	19396509.45	19396509.57	19396509.70	0.0089	0.0015
Mercury	48393-12-24 03:07 G	19396597.50	19396597.63	19396597.75	0.0089	0.0023
Mercury	48394-03-22 04:05 G	19396685.56	19396685.67	19396685.80	0.0089	0.0031

Mercury	48394-06-18 05:31 G	19396773.61	19396773.73	19396773.85	0.0089	0.0038
Mercury	48394-09-14 06:43 G	19396861.67	19396861.78	19396861.90	0.0089	0.0046
Mercury	48394-12-11 07:55 G	19396949.73	19396949.83	19396949.94	0.0089	0.0054
Mercury	48395-03-09 09:22 G	19397037.80	19397037.89	19397037.98	0.0089	0.0061
Mercury	48395-06-05 10:19 G	19397125.86	19397125.93	19397126.02	0.0089	0.0069
Mercury	48395-09-01 11:31 G	19397213.93	19397213.98	19397214.06	0.0089	0.0077
Mercury	48395-11-28 12:58 G	19397302.01	19397302.04	19397302.09	0.0089	0.0084
Earth	48407-12-24 06:29 G	19401710.73	19401710.77	19401710.85	0.0088	0.0086
Moon	48408-12-25 16:05 G	19402077.98	19402078.17	19402078.39	0.0088	0.0056
Earth	48408-12-25 18:43 G	19402078.10	19402078.28	19402078.49	0.0088	0.0059 *
Earth	48409-12-28 06:58 G	19402445.56	19402445.79	19402446.04	0.0088	0.0031
Moon	48409-12-28 10:19 G	19402445.71	19402445.93	19402446.18	0.0088	0.0034 *
Moon	48410-12-30 15:36 G	19402812.89	19402813.15	19402813.41	0.0088	0.0001
Earth	48410-12-30 19:12 G	19402813.04	19402813.30	19402813.56	0.0088	0.0004 *
Earth	48412-01-02 06:58 G	19403180.55	19403180.79	19403181.05	0.0088	0.0024
Moon	48412-01-02 10:19 G	19403180.69	19403180.93	19403181.20	0.0088	0.0022 *
Moon	48413-01-03 15:50 G	19403547.98	19403548.16	19403548.38	0.0088	0.0053
Earth	48413-01-03 18:58 G	19403548.09	19403548.29	19403548.52	0.0088	0.0051 *
Earth	48414-01-06 06:58 G	19403915.68	19403915.79	19403915.92	0.0088	0.0077
Moon	48414-01-06 08:53 G	19403915.73	19403915.87	19403916.01	0.0088	0.0075 *
Venus	48434-04-15 18:29 G	19411320.21	19411320.27	19411320.36	0.0088	0.0082
Venus	48434-11-27 07:41 G	19411545.70	19411545.82	19411545.95	0.0088	0.0072
Venus	48435-07-10 19:55 G	19411771.20	19411771.33	19411771.51	0.0088	0.0063
Venus	48436-02-21 08:38 G	19411996.71	19411996.86	19411997.06	0.0088	0.0053
Venus	48436-10-03 21:36 G	19412222.22	19412222.40	19412222.60	0.0088	0.0043
Venus	48437-05-17 10:19 G	19412447.73	19412447.93	19412448.14	0.0088	0.0033
Venus	48437-12-28 23:17 G	19412673.26	19412673.47	19412673.69	0.0088	0.0023
Venus	48438-08-11 12:00 G	19412898.79	19412899.00	19412899.22	0.0088	0.0013
Venus	48439-03-25 00:43 G	19413124.31	19413124.53	19413124.75	0.0088	0.0003
Venus	48439-11-05 13:26 G	19413349.84	19413350.06	19413350.28	0.0088	0.0007

Venus	48440-06-18 02:10 G	19413575.37	19413575.59	19413575.81	0.0088	0.0017
Venus	48441-01-29 14:38 G	19413800.91	19413801.11	19413801.33	0.0088	0.0027
Venus	48441-09-12 03:07 G	19414026.45	19414026.63	19414026.85	0.0088	0.0037
Venus	48442-04-25 15:50 G	19414251.99	19414252.16	19414252.36	0.0088	0.0047
Venus	48442-12-07 04:34 G	19414477.54	19414477.69	19414477.87	0.0088	0.0057
Venus	48443-07-20 17:02 G	19414703.09	19414703.21	19414703.38	0.0088	0.0067
Venus	48444-03-02 06:00 G	19414928.66	19414928.75	19414928.87	0.0088	0.0076
Venus	48444-10-13 18:29 G	19415154.25	19415154.27	19415154.33	0.0088	0.0086
Mars	48455-08-01 05:02 G	19419097.39	19419097.71	19419098.03	0.0088	0.0001
Mercury	48475-01-07 09:50 G	19426196.84	19426196.91	19426197.02	0.0088	0.0079
Mercury	48475-04-05 13:41 G	19426284.96	19426285.07	19426285.22	0.0089	0.0067
Mercury	48475-07-02 17:17 G	19426373.09	19426373.22	19426373.40	0.0089	0.0056
Mercury	48475-09-28 21:22 G	19426461.23	19426461.39	19426461.57	0.0089	0.0044
Mercury	48475-12-26 00:58 G	19426549.37	19426549.54	19426549.74	0.0089	0.0033
Mercury	48476-03-23 05:02 G	19426637.52	19426637.71	19426637.91	0.0089	0.0021
Mercury	48476-06-19 08:38 G	19426725.67	19426725.86	19426726.07	0.0089	0.0010
Mercury	48476-09-15 12:29 G	19426813.83	19426814.02	19426814.22	0.0089	0.0003
Mercury	48476-12-12 16:19 G	19426901.99	19426902.18	19426902.38	0.0089	0.0014
Mercury	48477-03-10 19:55 G	19426990.15	19426990.33	19426990.53	0.0089	0.0026
Mercury	48477-06-06 23:31 G	19427078.32	19427078.48	19427078.68	0.0089	0.0038
Mercury	48477-09-03 03:22 G	19427166.49	19427166.64	19427166.82	0.0089	0.0049
Mercury	48477-11-30 06:58 G	19427254.67	19427254.79	19427254.95	0.0089	0.0061
Mercury	48478-02-26 10:48 G	19427342.85	19427342.95	19427343.08	0.0089	0.0072
Mercury	48478-05-25 14:24 G	19427431.06	19427431.10	19427431.19	0.0089	0.0084
Earth	48491-06-26 15:50 G	19432211.07	19432211.16	19432211.31	0.0089	0.0078
Moon	48491-06-26 19:41 G	19432211.20	19432211.32	19432211.49	0.0089	0.0073 *
Moon	48492-06-28 00:29 G	19432578.32	19432578.52	19432578.72	0.0089	0.0055
Earth	48492-06-28 03:22 G	19432578.45	19432578.64	19432578.87	0.0089	0.0051 *
Earth	48493-06-30 14:38 G	19432945.88	19432946.11	19432946.37	0.0089	0.0023
Moon	48493-06-30 18:00 G	19432946.00	19432946.25	19432946.51	0.0089	0.0018 *

Moon	48494-07-03 00:29 G	19433313.28	19433313.52	19433313.77	0.0089	0.0001
Earth	48494-07-03 02:10 G	19433313.34	19433313.59	19433313.85	0.0089	0.0005 *
Earth	48495-07-05 13:26 G	19433680.83	19433681.06	19433681.30	0.0089	0.0033
Moon	48495-07-05 14:10 G	19433680.85	19433681.09	19433681.34	0.0089	0.0037 *
Earth	48496-07-07 00:29 G	19434048.35	19434048.52	19434048.72	0.0089	0.0061
Moon	48496-07-07 00:29 G	19434048.35	19434048.52	19434048.74	0.0089	0.0057 *
Earth	48497-07-09 11:31 G	19434415.97	19434415.98	19434416.05	0.0089	0.0088
Venus	48516-06-02 00:29 G	19441317.49	19441317.52	19441317.60	0.0090	0.0087
Venus	48517-01-13 13:41 G	19441542.98	19441543.07	19441543.21	0.0090	0.0077
Venus	48517-08-27 03:22 G	19441768.50	19441768.64	19441768.80	0.0090	0.0066
Venus	48518-04-09 16:34 G	19441994.03	19441994.19	19441994.38	0.0090	0.0056
Venus	48518-11-21 06:14 G	19442219.57	19442219.76	19442219.95	0.0090	0.0045
Venus	48519-07-04 19:26 G	19442445.12	19442445.31	19442445.52	0.0090	0.0035
Venus	48520-02-15 08:38 G	19442670.66	19442670.86	19442671.09	0.0090	0.0025
Venus	48520-09-27 22:05 G	19442896.21	19442896.42	19442896.64	0.0090	0.0014
Venus	48521-05-11 11:31 G	19443121.76	19443121.98	19443122.20	0.0090	0.0003
Venus	48521-12-23 00:58 G	19443347.32	19443347.54	19443347.76	0.0090	0.0007
Venus	48522-08-05 14:24 G	19443572.88	19443573.10	19443573.31	0.0090	0.0018
Venus	48523-03-19 03:22 G	19443798.44	19443798.64	19443798.86	0.0090	0.0029
Venus	48523-10-30 16:48 G	19444024.01	19444024.20	19444024.41	0.0090	0.0039
Venus	48524-06-12 06:00 G	19444249.59	19444249.75	19444249.95	0.0090	0.0050
Venus	48525-01-23 19:26 G	19444475.16	19444475.31	19444475.49	0.0090	0.0060
Venus	48525-09-06 09:07 G	19444700.75	19444700.88	19444701.02	0.0090	0.0070
Venus	48526-04-19 21:50 G	19444926.34	19444926.41	19444926.53	0.0090	0.0081
Mars	48535-08-12 14:10 G	19448327.97	19448328.09	19448328.24	0.0089	0.0080
Mars	48537-07-07 07:55 G	19449022.55	19449022.83	19449023.14	0.0089	0.0025
Mercury	48555-05-07 09:07 G	19455535.84	19455535.88	19455535.94	0.0089	0.0081
Mercury	48555-08-03 10:19 G	19455623.87	19455623.93	19455624.01	0.0089	0.0074
Mercury	48555-10-30 11:31 G	19455711.91	19455711.98	19455712.08	0.0089	0.0066
Mercury	48556-01-26 12:58 G	19455799.95	19455800.04	19455800.14	0.0089	0.0058



Mercury	48556-04-23 14:10 G	19455887.99	19455888.09	19455888.20	0.0089	0.0051
Mercury	48556-07-20 15:22 G	19455976.04	19455976.14	19455976.26	0.0089	0.0043
Mercury	48556-10-16 16:48 G	19456064.08	19456064.20	19456064.32	0.0089	0.0035
Mercury	48557-01-12 18:00 G	19456152.13	19456152.25	19456152.38	0.0089	0.0028
Mercury	48557-04-10 19:12 G	19456240.18	19456240.30	19456240.44	0.0089	0.0020
Mercury	48557-07-07 20:38 G	19456328.23	19456328.36	19456328.49	0.0089	0.0012
Mercury	48557-10-03 21:50 G	19456416.28	19456416.41	19456416.54	0.0089	0.0005
Mercury	48557-12-30 23:02 G	19456504.33	19456504.46	19456504.60	0.0089	0.0004
Mercury	48558-03-29 00:29 G	19456592.39	19456592.52	19456592.65	0.0089	0.0011
Mercury	48558-06-25 01:41 G	19456680.44	19456680.57	19456680.70	0.0089	0.0019
Mercury	48558-09-21 02:53 G	19456768.50	19456768.62	19456768.75	0.0089	0.0026
Mercury	48558-12-18 04:05 G	19456856.55	19456856.67	19456856.80	0.0089	0.0034
Mercury	48559-03-16 05:17 G	19456944.61	19456944.72	19456944.84	0.0089	0.0042
Mercury	48559-06-12 06:43 G	19457032.67	19457032.78	19457032.89	0.0089	0.0049
Mercury	48559-09-08 07:55 G	19457120.73	19457120.83	19457120.93	0.0089	0.0057
Mercury	48559-12-05 08:53 G	19457208.80	19457208.87	19457208.97	0.0089	0.0065
Mercury	48560-03-02 10:19 G	19457296.86	19457296.93	19457297.01	0.0089	0.0072
Mercury	48560-05-29 11:31 G	19457384.93	19457384.98	19457385.04	0.0089	0.0080
Mercury	48560-08-25 12:43 G	19457473.02	19457473.03	19457473.06	0.0089	0.0088
Earth	48572-12-26 03:22 G	19461978.51	19461978.64	19461978.80	0.0088	0.0073
Moon	48572-12-26 06:29 G	19461978.67	19461978.77	19461978.93	0.0088	0.0076 *
Moon	48573-12-28 11:31 G	19462345.78	19462345.98	19462346.23	0.0088	0.0043
Earth	48573-12-28 15:22 G	19462345.93	19462346.14	19462346.38	0.0088	0.0046 *
Earth	48574-12-31 03:22 G	19462713.40	19462713.64	19462713.91	0.0088	0.0019
Moon	48574-12-31 06:43 G	19462713.53	19462713.78	19462714.04	0.0088	0.0021 *
Moon	48576-01-02 13:41 G	19463080.82	19463081.07	19463081.33	0.0088	0.0012
Earth	48576-01-02 15:50 G	19463080.90	19463081.16	19463081.42	0.0088	0.0009 *
Earth	48577-01-04 03:36 G	19463448.43	19463448.65	19463448.90	0.0088	0.0037
Moon	48577-01-04 05:17 G	19463448.48	19463448.72	19463448.98	0.0088	0.0033 *
Earth	48578-01-06 15:22 G	19463815.99	19463816.14	19463816.35	0.0088	0.0064

Moon	48578-01-06 15:50 G	19463816.02	19463816.16	19463816.34	0.0088	0.0067 *
Moon	48579-01-09 02:10 G	19464183.59	19464183.59	19464183.62	0.0088	0.0088
Venus	48598-07-19 05:17 G	19471314.68	19471314.72	19471314.82	0.0088	0.0084
Venus	48599-03-01 18:14 G	19471540.16	19471540.26	19471540.39	0.0088	0.0074
Venus	48599-10-13 06:58 G	19471765.65	19471765.79	19471765.95	0.0088	0.0064
Venus	48600-05-26 19:55 G	19471991.16	19471991.33	19471991.51	0.0088	0.0054
Venus	48601-01-07 08:24 G	19472216.68	19472216.85	19472217.06	0.0088	0.0045
Venus	48601-08-20 21:07 G	19472442.19	19472442.38	19472442.60	0.0088	0.0035
Venus	48602-04-03 10:05 G	19472667.71	19472667.92	19472668.14	0.0088	0.0025
Venus	48602-11-14 22:48 G	19472893.24	19472893.45	19472893.68	0.0088	0.0015
Venus	48603-06-28 11:46 G	19473118.77	19473118.99	19473119.21	0.0088	0.0005
Venus	48604-02-09 00:29 G	19473344.30	19473344.52	19473344.74	0.0088	0.0005
Venus	48604-09-21 12:58 G	19473569.83	19473570.04	19473570.26	0.0088	0.0015
Venus	48605-05-05 01:26 G	19473795.36	19473795.56	19473795.78	0.0088	0.0025
Venus	48605-12-16 14:10 G	19474020.90	19474021.09	19474021.31	0.0088	0.0035
Venus	48606-07-30 03:07 G	19474246.44	19474246.63	19474246.82	0.0088	0.0044
Venus	48607-03-12 15:36 G	19474471.99	19474472.15	19474472.33	0.0088	0.0054
Venus	48607-10-24 04:05 G	19474697.53	19474697.67	19474697.84	0.0088	0.0064
Venus	48608-06-05 16:34 G	19474923.09	19474923.19	19474923.33	0.0088	0.0074
Venus	48609-01-17 05:31 G	19475148.68	19475148.73	19475148.81	0.0088	0.0083
Mars	48619-03-17 18:58 G	19478860.01	19478860.29	19478860.59	0.0088	0.0036
Mars	48621-02-09 16:05 G	19479554.99	19479555.17	19479555.41	0.0088	0.0066
Mercury	48639-07-10 04:19 G	19486279.65	19486279.68	19486279.75	0.0088	0.0086
Mercury	48639-10-06 08:24 G	19486367.75	19486367.85	19486367.97	0.0089	0.0074
Mercury	48640-01-02 12:00 G	19486455.88	19486456.00	19486456.15	0.0089	0.0063
Mercury	48640-03-30 15:50 G	19486544.01	19486544.16	19486544.33	0.0089	0.0051
Mercury	48640-06-26 19:26 G	19486632.15	19486632.31	19486632.51	0.0089	0.0040
Mercury	48640-09-22 23:31 G	19486720.30	19486720.48	19486720.67	0.0089	0.0028
Mercury	48640-12-20 03:07 G	19486808.45	19486808.63	19486808.84	0.0089	0.0017
Mercury	48641-03-18 07:12 G	19486896.60	19486896.80	19486897.00	0.0089	0.0005

Mercury	48641-06-14 10:48 G	19486984.76	19486984.95	19486985.15	0.0089	0.0007
Mercury	48641-09-10 14:38 G	19487072.92	19487073.11	19487073.31	0.0089	0.0018
Mercury	48641-12-07 18:29 G	19487161.08	19487161.27	19487161.45	0.0089	0.0030
Mercury	48642-03-05 21:50 G	19487249.25	19487249.41	19487249.60	0.0089	0.0042
Mercury	48642-06-02 01:26 G	19487337.42	19487337.56	19487337.74	0.0089	0.0054
Mercury	48642-08-29 05:31 G	19487425.61	19487425.73	19487425.87	0.0089	0.0065
Mercury	48642-11-25 08:53 G	19487513.80	19487513.87	19487514.00	0.0089	0.0077
Mercury	48643-02-21 12:58 G	19487602.03	19487602.04	19487602.08	0.0089	0.0088
Earth	48656-06-29 13:12 G	19492478.89	19492479.05	19492479.24	0.0089	0.0065
Moon	48656-06-29 15:22 G	19492478.98	19492479.14	19492479.33	0.0089	0.0066 *
Moon	48657-07-01 22:48 G	19492846.24	19492846.45	19492846.70	0.0089	0.0036
Earth	48657-07-02 00:29 G	19492846.30	19492846.52	19492846.77	0.0089	0.0037 *
Moon	48658-07-04 12:00 G	19493213.74	19493214.00	19493214.27	0.0089	0.0011
Earth	48658-07-04 12:00 G	19493213.75	19493214.00	19493214.26	0.0089	0.0009 *
Earth	48659-07-06 23:02 G	19493581.23	19493581.46	19493581.73	0.0089	0.0019
Moon	48659-07-07 00:43 G	19493581.29	19493581.53	19493581.77	0.0089	0.0021 *
Moon	48660-07-08 08:10 G	19493948.63	19493948.84	19493949.09	0.0089	0.0046
Earth	48660-07-08 10:34 G	19493948.73	19493948.94	19493949.16	0.0089	0.0046 *
Earth	48661-07-10 21:22 G	19494316.28	19494316.39	19494316.56	0.0089	0.0075
Moon	48661-07-11 01:12 G	19494316.42	19494316.55	19494316.68	0.0089	0.0076 *
Venus	48680-09-04 11:17 G	19501311.93	19501311.97	19501312.01	0.0090	0.0088
Venus	48681-04-18 00:29 G	19501537.42	19501537.52	19501537.63	0.0090	0.0078
Venus	48681-11-29 13:41 G	19501762.94	19501763.07	19501763.23	0.0090	0.0068
Venus	48682-07-13 02:53 G	19501988.48	19501988.62	19501988.81	0.0090	0.0058
Venus	48683-02-23 16:34 G	19502214.01	19502214.19	19502214.38	0.0090	0.0047
Venus	48683-10-07 05:46 G	19502439.55	19502439.74	19502439.95	0.0090	0.0037
Venus	48684-05-19 19:12 G	19502665.10	19502665.30	19502665.52	0.0090	0.0026
Venus	48684-12-31 08:38 G	19502890.65	19502890.86	19502891.08	0.0090	0.0016
Venus	48685-08-13 22:05 G	19503116.20	19503116.42	19503116.64	0.0090	0.0006
Venus	48686-03-27 11:17 G	19503341.75	19503341.97	19503342.19	0.0090	0.0005

Venus	48686-11-08 00:29 G	19503567.31	19503567.52	19503567.74	0.0090	0.0015
Venus	48687-06-21 13:55 G	19503792.87	19503793.08	19503793.30	0.0090	0.0026
Venus	48688-02-02 03:22 G	19504018.44	19504018.64	19504018.84	0.0090	0.0036
Venus	48688-09-14 16:19 G	19504244.01	19504244.18	19504244.38	0.0090	0.0047
Venus	48689-04-28 05:46 G	19504469.58	19504469.74	19504469.92	0.0090	0.0057
Venus	48689-12-09 19:12 G	19504695.16	19504695.30	19504695.45	0.0090	0.0067
Venus	48690-07-23 08:24 G	19504920.76	19504920.85	19504920.98	0.0090	0.0078
Venus	48691-03-05 21:36 G	19505146.38	19505146.40	19505146.47	0.0090	0.0088
Mars	48701-02-21 01:55 G	19508785.28	19508785.58	19508785.90	0.0089	0.0014
Mercury	48719-11-07 07:26 G	19515618.79	19515618.81	19515618.85	0.0089	0.0086
Mercury	48720-02-03 08:53 G	19515706.82	19515706.87	19515706.93	0.0089	0.0078
Mercury	48720-05-01 10:05 G	19515794.85	19515794.92	19515795.01	0.0089	0.0071
Mercury	48720-07-28 11:17 G	19515882.89	19515882.97	19515883.07	0.0089	0.0063
Mercury	48720-10-24 12:43 G	19515970.93	19515971.03	19515971.14	0.0089	0.0055
Mercury	48721-01-20 13:55 G	19516058.98	19516059.08	19516059.20	0.0089	0.0048
Mercury	48721-04-18 15:07 G	19516147.02	19516147.13	19516147.26	0.0089	0.0040
Mercury	48721-07-15 16:34 G	19516235.07	19516235.19	19516235.31	0.0089	0.0032
Mercury	48721-10-11 17:46 G	19516323.12	19516323.24	19516323.37	0.0089	0.0025
Mercury	48722-01-07 18:58 G	19516411.17	19516411.29	19516411.42	0.0089	0.0017
Mercury	48722-04-05 20:24 G	19516499.22	19516499.35	19516499.48	0.0089	0.0009
Mercury	48722-07-02 21:36 G	19516587.27	19516587.40	19516587.53	0.0089	0.0002
Mercury	48722-09-28 22:48 G	19516675.32	19516675.45	19516675.59	0.0089	0.0007
Mercury	48722-12-26 00:14 G	19516763.38	19516763.51	19516763.64	0.0089	0.0014
Mercury	48723-03-24 01:26 G	19516851.43	19516851.56	19516851.69	0.0089	0.0022
Mercury	48723-06-20 02:24 G	19516939.49	19516939.60	19516939.74	0.0089	0.0030
Mercury	48723-09-16 03:50 G	19517027.55	19517027.66	19517027.78	0.0089	0.0037
Mercury	48723-12-13 05:02 G	19517115.60	19517115.71	19517115.83	0.0089	0.0045
Mercury	48724-03-10 06:29 G	19517203.66	19517203.77	19517203.87	0.0089	0.0052
Mercury	48724-06-06 07:26 G	19517291.73	19517291.81	19517291.92	0.0089	0.0060
Mercury	48724-09-02 08:38 G	19517379.79	19517379.86	19517379.96	0.0089	0.0068

Mercury	48724-11-29 10:05 G	19517467.86	19517467.92	19517467.99	0.0089	0.0075
Mercury	48725-02-25 11:17 G	19517555.93	19517555.97	19517556.02	0.0089	0.0083
Earth	48736-12-27 12:00 G	19521878.97	19521879.00	19521879.07	0.0088	0.0087
Earth	48737-12-30 00:00 G	19522246.32	19522246.50	19522246.71	0.0088	0.0059
Moon	48737-12-30 03:07 G	19522246.43	19522246.63	19522246.84	0.0088	0.0056 *
Moon	48739-01-01 10:19 G	19522613.72	19522613.93	19522614.18	0.0088	0.0036
Earth	48739-01-01 12:00 G	19522613.77	19522614.00	19522614.26	0.0088	0.0032 *
Earth	48740-01-04 00:29 G	19522981.26	19522981.52	19522981.78	0.0088	0.0005
Moon	48740-01-04 00:43 G	19522981.26	19522981.53	19522981.80	0.0088	0.0002 *
Earth	48741-01-05 12:14 G	19523348.77	19523349.01	19523349.27	0.0088	0.0023
Moon	48741-01-05 12:29 G	19523348.79	19523349.02	19523349.28	0.0088	0.0021 *
Moon	48742-01-07 21:36 G	19523716.22	19523716.40	19523716.64	0.0088	0.0055
Earth	48742-01-08 00:00 G	19523716.30	19523716.50	19523716.73	0.0088	0.0050 *
Earth	48743-01-10 12:00 G	19524083.89	19524084.00	19524084.14	0.0088	0.0077
Moon	48743-01-10 14:38 G	19524084.00	19524084.11	19524084.27	0.0088	0.0074 *
Venus	48762-10-22 16:05 G	19531309.13	19531309.17	19531309.24	0.0088	0.0085
Venus	48763-06-05 04:34 G	19531534.60	19531534.69	19531534.82	0.0088	0.0076
Venus	48764-01-16 17:17 G	19531760.10	19531760.22	19531760.39	0.0088	0.0066
Venus	48764-08-29 06:14 G	19531985.60	19531985.76	19531985.94	0.0088	0.0056
Venus	48765-04-11 18:43 G	19532211.11	19532211.28	19532211.49	0.0088	0.0047
Venus	48765-11-23 07:41 G	19532436.63	19532436.82	19532437.03	0.0088	0.0037
Venus	48766-07-06 20:24 G	19532662.15	19532662.35	19532662.57	0.0088	0.0027
Venus	48767-02-17 09:22 G	19532887.67	19532887.89	19532888.11	0.0088	0.0017
Venus	48767-09-30 22:05 G	19533113.20	19533113.42	19533113.64	0.0088	0.0007
Venus	48768-05-13 10:48 G	19533338.73	19533338.95	19533339.17	0.0088	0.0003
Venus	48768-12-24 23:31 G	19533564.27	19533564.48	19533564.70	0.0088	0.0013
Venus	48769-08-07 12:00 G	19533789.80	19533790.00	19533790.23	0.0088	0.0023
Venus	48770-03-21 00:58 G	19534015.34	19534015.54	19534015.75	0.0088	0.0032
Venus	48770-11-01 13:26 G	19534240.88	19534241.06	19534241.27	0.0088	0.0042
Venus	48771-06-15 01:55 G	19534466.42	19534466.58	19534466.78	0.0088	0.0052

Venus	48772-01-26 15:07 G	19534691.98	19534692.13	19534692.29	0.0088	0.0061
Venus	48772-09-08 03:22 G	19534917.53	19534917.64	19534917.79	0.0088	0.0071
Venus	48773-04-21 15:50 G	19535143.10	19535143.16	19535143.28	0.0088	0.0081
Mars	48782-10-31 09:22 G	19538622.74	19538622.89	19538623.08	0.0088	0.0074
Mars	48784-09-25 04:05 G	19539317.38	19539317.67	19539317.98	0.0088	0.0028
Mercury	48804-04-06 02:24 G	19546450.55	19546450.60	19546450.70	0.0088	0.0082
Mercury	48804-07-03 06:29 G	19546538.66	19546538.77	19546538.90	0.0088	0.0070
Mercury	48804-09-29 10:05 G	19546626.79	19546626.92	19546627.08	0.0089	0.0059
Mercury	48804-12-26 14:10 G	19546714.92	19546715.09	19546715.26	0.0089	0.0047
Mercury	48805-03-24 17:46 G	19546803.07	19546803.24	19546803.43	0.0089	0.0035
Mercury	48805-06-20 21:36 G	19546891.21	19546891.40	19546891.59	0.0089	0.0024
Mercury	48805-09-17 01:26 G	19546979.36	19546979.56	19546979.76	0.0089	0.0012
Mercury	48805-12-14 05:17 G	19547067.52	19547067.72	19547067.92	0.0089	0.0001
Mercury	48806-03-12 08:53 G	19547155.68	19547155.87	19547156.07	0.0089	0.0011
Mercury	48806-06-08 12:29 G	19547243.84	19547244.02	19547244.22	0.0089	0.0023
Mercury	48806-09-04 16:34 G	19547332.01	19547332.19	19547332.37	0.0089	0.0034
Mercury	48806-12-01 19:55 G	19547420.18	19547420.33	19547420.52	0.0089	0.0046
Mercury	48807-02-27 23:31 G	19547508.35	19547508.48	19547508.65	0.0089	0.0058
Mercury	48807-05-27 03:36 G	19547596.54	19547596.65	19547596.78	0.0089	0.0069
Mercury	48807-08-23 07:12 G	19547684.74	19547684.80	19547684.90	0.0089	0.0081
Jupiter	48818-12-30 13:55 G	19551831.58	19551832.08	19551832.64	0.0089	0.0016
Moon	48820-06-29 21:36 G	19552379.30	19552379.40	19552379.55	0.0089	0.0076
Earth	48820-06-29 22:05 G	19552379.32	19552379.42	19552379.55	0.0089	0.0079 *
Moon	48821-07-02 08:38 G	19552746.68	19552746.86	19552747.10	0.0089	0.0056
Earth	48821-07-02 09:36 G	19552746.70	19552746.90	19552747.12	0.0089	0.0051 *
Earth	48822-07-04 20:53 G	19553114.13	19553114.37	19553114.63	0.0089	0.0024
Moon	48822-07-04 22:48 G	19553114.21	19553114.45	19553114.69	0.0089	0.0020 *
Moon	48823-07-07 05:17 G	19553481.46	19553481.72	19553481.98	0.0089	0.0001
Earth	48823-07-07 08:24 G	19553481.59	19553481.85	19553482.10	0.0089	0.0004 *
Earth	48824-07-08 19:12 G	19553849.08	19553849.30	19553849.56	0.0089	0.0032

Moon	48824-07-08 22:34 G	19553849.22	19553849.44	19553849.68	0.0089	0.0036 *
Moon	48825-07-11 02:53 G	19554216.44	19554216.62	19554216.84	0.0089	0.0056
Earth	48825-07-11 06:29 G	19554216.61	19554216.77	19554216.98	0.0089	0.0060 *
Earth	48826-07-13 17:46 G	19554584.21	19554584.24	19554584.31	0.0089	0.0088
Venus	48845-07-21 10:19 G	19561531.85	19561531.93	19561532.05	0.0090	0.0080
Venus	48846-03-03 23:46 G	19561757.37	19561757.49	19561757.64	0.0090	0.0070
Venus	48846-10-15 12:58 G	19561982.90	19561983.04	19561983.23	0.0090	0.0060
Venus	48847-05-29 02:53 G	19562208.44	19562208.62	19562208.81	0.0090	0.0049
Venus	48848-01-09 16:05 G	19562433.98	19562434.17	19562434.38	0.0090	0.0039
Venus	48848-08-22 05:17 G	19562659.53	19562659.72	19562659.94	0.0090	0.0029
Venus	48849-04-04 18:43 G	19562885.07	19562885.28	19562885.50	0.0090	0.0018
Venus	48849-11-16 08:10 G	19563110.62	19563110.84	19563111.06	0.0090	0.0008
Venus	48850-06-29 21:36 G	19563336.18	19563336.40	19563336.62	0.0090	0.0003
Venus	48851-02-10 10:48 G	19563561.74	19563561.95	19563562.17	0.0090	0.0013
Venus	48851-09-24 00:14 G	19563787.30	19563787.51	19563787.72	0.0090	0.0023
Venus	48852-05-06 13:12 G	19564012.86	19564013.05	19564013.27	0.0090	0.0034
Venus	48852-12-18 02:24 G	19564238.43	19564238.60	19564238.81	0.0090	0.0044
Venus	48853-07-31 16:05 G	19564464.00	19564464.17	19564464.35	0.0090	0.0054
Venus	48854-03-14 05:17 G	19564689.58	19564689.72	19564689.88	0.0090	0.0064
Venus	48854-10-25 18:14 G	19564915.16	19564915.26	19564915.40	0.0090	0.0075
Venus	48855-06-08 07:41 G	19565140.77	19565140.82	19565140.91	0.0090	0.0085
Mars	48864-10-05 15:07 G	19568547.89	19568548.13	19568548.39	0.0089	0.0054
Mars	48866-08-31 11:02 G	19569242.74	19569242.96	19569243.24	0.0089	0.0053
Mercury	48884-08-03 07:26 G	19575789.77	19575789.81	19575789.85	0.0089	0.0083
Mercury	48884-10-30 08:24 G	19575877.80	19575877.85	19575877.93	0.0089	0.0076
Mercury	48885-01-26 09:50 G	19575965.83	19575965.91	19575966.00	0.0089	0.0068
Mercury	48885-04-24 11:02 G	19576053.87	19576053.96	19576054.06	0.0089	0.0060
Mercury	48885-07-21 12:29 G	19576141.92	19576142.02	19576142.13	0.0089	0.0052
Mercury	48885-10-17 13:41 G	19576229.96	19576230.07	19576230.19	0.0089	0.0045
Mercury	48886-01-13 14:53 G	19576318.01	19576318.12	19576318.25	0.0089	0.0037

Mercury	48886-04-11 16:19 G	19576406.06	19576406.18	19576406.30	0.0089	0.0029
Mercury	48886-07-08 17:31 G	19576494.11	19576494.23	19576494.36	0.0089	0.0022
Mercury	48886-10-04 18:43 G	19576582.16	19576582.28	19576582.41	0.0089	0.0014
Mercury	48886-12-31 20:10 G	19576670.21	19576670.34	19576670.47	0.0089	0.0006
Mercury	48887-03-29 21:22 G	19576758.26	19576758.39	19576758.52	0.0089	0.0002
Mercury	48887-06-25 22:34 G	19576846.31	19576846.44	19576846.57	0.0089	0.0009
Mercury	48887-09-21 23:46 G	19576934.37	19576934.49	19576934.62	0.0089	0.0017
Mercury	48887-12-19 00:58 G	19577022.42	19577022.54	19577022.67	0.0089	0.0025
Mercury	48888-03-16 02:24 G	19577110.48	19577110.60	19577110.72	0.0089	0.0032
Mercury	48888-06-12 03:36 G	19577198.54	19577198.65	19577198.77	0.0089	0.0040
Mercury	48888-09-08 04:48 G	19577286.59	19577286.70	19577286.81	0.0089	0.0047
Mercury	48888-12-05 06:00 G	19577374.66	19577374.75	19577374.86	0.0089	0.0055
Mercury	48889-03-03 07:12 G	19577462.72	19577462.80	19577462.90	0.0089	0.0063
Mercury	48889-05-30 08:24 G	19577550.78	19577550.85	19577550.94	0.0089	0.0071
Mercury	48889-08-26 09:50 G	19577638.85	19577638.91	19577638.97	0.0089	0.0078
Mercury	48889-11-22 10:48 G	19577726.93	19577726.95	19577727.00	0.0089	0.0086
Moon	48901-12-30 06:29 G	19582146.67	19582146.77	19582146.92	0.0088	0.0076
Earth	48901-12-30 07:41 G	19582146.69	19582146.82	19582146.98	0.0088	0.0074 *
Moon	48903-01-01 19:41 G	19582514.10	19582514.32	19582514.56	0.0088	0.0044
Earth	48903-01-01 19:41 G	19582514.11	19582514.32	19582514.56	0.0088	0.0047 *
Earth	48904-01-04 07:41 G	19582881.58	19582881.82	19582882.09	0.0088	0.0019
Moon	48904-01-04 09:36 G	19582881.66	19582881.90	19582882.16	0.0088	0.0020 *
Moon	48905-01-05 17:17 G	19583248.96	19583249.22	19583249.49	0.0088	0.0010
Earth	48905-01-05 19:55 G	19583249.07	19583249.33	19583249.59	0.0088	0.0009 *
Earth	48906-01-08 07:26 G	19583616.59	19583616.81	19583617.06	0.0088	0.0036
Moon	48906-01-08 10:34 G	19583616.73	19583616.94	19583617.20	0.0088	0.0035 *
Moon	48907-01-10 15:36 G	19583984.00	19583984.15	19583984.35	0.0088	0.0065
Earth	48907-01-10 19:41 G	19583984.15	19583984.32	19583984.51	0.0088	0.0063 *
Moon	48908-01-13 11:02 G	19584351.96	19584351.96	19584351.99	0.0088	0.0088
Venus	48927-01-25 02:10 G	19591303.58	19591303.59	19591303.65	0.0088	0.0087



Venus	48927-09-07 14:53 G	19591529.03	19591529.12	19591529.24	0.0088	0.0077
Venus	48928-04-20 03:22 G	19591754.52	19591754.64	19591754.80	0.0088	0.0068
Venus	48928-12-01 16:19 G	19591980.03	19591980.18	19591980.36	0.0088	0.0058
Venus	48929-07-15 04:48 G	19592205.54	19592205.70	19592205.91	0.0088	0.0049
Venus	48930-02-25 17:46 G	19592431.05	19592431.24	19592431.45	0.0088	0.0039
Venus	48930-10-09 06:29 G	19592656.57	19592656.77	19592656.98	0.0088	0.0029
Venus	48931-05-22 18:58 G	19592882.09	19592882.29	19592882.52	0.0088	0.0020
Venus	48932-01-03 07:55 G	19593107.62	19593107.83	19593108.06	0.0088	0.0010
Venus	48932-08-15 20:53 G	19593333.15	19593333.37	19593333.59	0.0088	0.0001
Venus	48933-03-29 09:22 G	19593558.68	19593558.89	19593559.11	0.0088	0.0010
Venus	48933-11-09 22:05 G	19593784.21	19593784.42	19593784.64	0.0088	0.0020
Venus	48934-06-23 10:34 G	19594009.75	19594009.94	19594010.16	0.0088	0.0030
Venus	48935-02-03 23:31 G	19594235.29	19594235.48	19594235.68	0.0088	0.0039
Venus	48935-09-17 12:00 G	19594460.83	19594461.00	19594461.20	0.0088	0.0049
Venus	48936-04-30 00:58 G	19594686.38	19594686.54	19594686.71	0.0088	0.0058
Venus	48936-12-11 13:26 G	19594911.94	19594912.06	19594912.22	0.0088	0.0068
Venus	48937-07-25 01:55 G	19595137.51	19595137.58	19595137.71	0.0088	0.0078
Venus	48938-03-07 14:53 G	19595363.11	19595363.12	19595363.16	0.0088	0.0087
Mars	48948-05-10 18:00 G	19599079.94	19599080.25	19599080.57	0.0088	0.0011
Mercury	48969-01-02 00:14 G	19606621.44	19606621.51	19606621.62	0.0089	0.0079
Mercury	48969-03-31 04:19 G	19606709.56	19606709.68	19606709.81	0.0089	0.0067
Mercury	48969-06-27 07:55 G	19606797.69	19606797.83	19606797.99	0.0089	0.0056
Mercury	48969-09-23 11:46 G	19606885.82	19606885.99	19606886.17	0.0089	0.0044
Mercury	48969-12-20 15:22 G	19606973.97	19606974.14	19606974.34	0.0089	0.0033
Mercury	48970-03-18 19:26 G	19607062.11	19607062.31	19607062.50	0.0089	0.0021
Mercury	48970-06-14 23:02 G	19607150.27	19607150.46	19607150.66	0.0089	0.0010
Mercury	48970-09-11 02:53 G	19607238.42	19607238.62	19607238.82	0.0089	0.0002
Mercury	48970-12-08 06:29 G	19607326.58	19607326.77	19607326.97	0.0089	0.0014
Mercury	48971-03-06 10:05 G	19607414.74	19607414.92	19607415.12	0.0089	0.0026
Mercury	48971-06-02 14:10 G	19607502.91	19607503.09	19607503.27	0.0089	0.0037

Mercury	48971-08-29 17:31 G	19607591.08	19607591.23	19607591.41	0.0089	0.0049
Mercury	48971-11-25 21:36 G	19607679.26	19607679.40	19607679.55	0.0089	0.0060
Mercury	48972-02-22 01:12 G	19607767.45	19607767.55	19607767.68	0.0089	0.0072
Mercury	48972-05-20 05:17 G	19607855.66	19607855.72	19607855.79	0.0089	0.0083
Earth	48985-07-02 17:46 G	19612647.08	19612647.24	19612647.42	0.0089	0.0066
Moon	48985-07-02 19:41 G	19612647.19	19612647.32	19612647.50	0.0089	0.0070 *
Moon	48986-07-05 01:41 G	19613014.36	19613014.57	19613014.83	0.0089	0.0037
Earth	48986-07-05 05:02 G	19613014.50	19613014.71	19613014.95	0.0089	0.0039 *
Earth	48987-07-07 16:34 G	19613381.94	19613382.19	19613382.45	0.0089	0.0011
Moon	48987-07-07 20:10 G	19613382.10	19613382.34	19613382.60	0.0089	0.0015 *
Moon	48988-07-09 00:43 G	19613749.29	19613749.53	19613749.78	0.0089	0.0020
Earth	48988-07-09 04:05 G	19613749.42	19613749.67	19613749.93	0.0089	0.0017 *
Earth	48989-07-11 14:53 G	19614116.92	19614117.12	19614117.36	0.0089	0.0046
Moon	48989-07-11 18:14 G	19614117.05	19614117.26	19614117.51	0.0089	0.0043 *
Moon	48990-07-14 00:29 G	19614484.41	19614484.52	19614484.67	0.0089	0.0076
Earth	48990-07-14 02:10 G	19614484.47	19614484.59	19614484.76	0.0089	0.0073 *

# 50TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 50th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	49009-10-24 19:41 G	19621526.24	19621526.32	19621526.42	0.0090	0.0082		
Venus	49010-06-07 09:07 G	19621751.76	19621751.88	19621752.02	0.0090	0.0072		

Venus	49011-01-18 22:34 G	19621977.29	19621977.44	19621977.61	0.0090	0.0062
Venus	49011-09-01 11:46 G	19622202.83	19622202.99	19622203.19	0.0090	0.0052
Venus	49012-04-14 01:12 G	19622428.37	19622428.55	19622428.76	0.0090	0.0042
Venus	49012-11-25 14:53 G	19622653.92	19622654.12	19622654.33	0.0090	0.0031
Venus	49013-07-09 04:19 G	19622879.47	19622879.68	19622879.90	0.0090	0.0021
Venus	49014-02-19 17:46 G	19623105.02	19623105.24	19623105.46	0.0090	0.0010
Venus	49014-10-03 07:12 G	19623330.58	19623330.80	19623331.02	0.0090	0.0001
Venus	49015-05-16 20:24 G	19623556.14	19623556.35	19623556.57	0.0090	0.0010
Venus	49015-12-28 09:36 G	19623781.70	19623781.90	19623782.12	0.0090	0.0021
Venus	49016-08-09 23:02 G	19624007.26	19624007.46	19624007.67	0.0090	0.0031
Venus	49017-03-23 12:14 G	19624232.83	19624233.01	19624233.22	0.0090	0.0041
Venus	49017-11-04 01:26 G	19624458.39	19624458.56	19624458.75	0.0090	0.0051
Venus	49018-06-17 14:53 G	19624683.97	19624684.12	19624684.29	0.0090	0.0061
Venus	49019-01-29 04:19 G	19624909.56	19624909.68	19624909.82	0.0090	0.0071
Venus	49019-09-11 17:46 G	19625135.15	19625135.24	19625135.33	0.0090	0.0081
Mars	49030-04-17 00:58 G	19629005.24	19629005.54	19629005.86	0.0089	0.0013
Mercury	49049-02-03 05:31 G	19635872.73	19635872.73	19635872.74	0.0089	0.0089
Mercury	49049-05-02 06:43 G	19635960.74	19635960.78	19635960.84	0.0089	0.0081
Mercury	49049-07-29 08:10 G	19636048.77	19636048.84	19636048.92	0.0089	0.0073
Mercury	49049-10-25 09:07 G	19636136.81	19636136.88	19636136.98	0.0089	0.0066
Mercury	49050-01-21 10:34 G	19636224.85	19636224.94	19636225.05	0.0089	0.0058
Mercury	49050-04-19 12:00 G	19636312.90	19636313.00	19636313.11	0.0089	0.0050
Mercury	49050-07-16 13:12 G	19636400.94	19636401.05	19636401.17	0.0089	0.0042
Mercury	49050-10-12 14:24 G	19636488.99	19636489.10	19636489.23	0.0089	0.0035
Mercury	49051-01-08 15:50 G	19636577.04	19636577.16	19636577.29	0.0089	0.0027
Mercury	49051-04-06 17:02 G	19636665.09	19636665.21	19636665.34	0.0089	0.0019
Mercury	49051-07-03 18:29 G	19636753.14	19636753.27	19636753.40	0.0089	0.0012
Mercury	49051-09-29 19:41 G	19636841.19	19636841.32	19636841.45	0.0089	0.0004
Mercury	49051-12-26 20:53 G	19636929.24	19636929.37	19636929.50	0.0089	0.0004
Mercury	49052-03-23 22:19 G	19637017.30	19637017.43	19637017.56	0.0089	0.0012

Mercury	49052-06-19 23:17 G	19637105.35	19637105.47	19637105.61	0.0089	0.0020
Mercury	49052-09-16 00:43 G	19637193.41	19637193.53	19637193.66	0.0089	0.0027
Mercury	49052-12-13 01:55 G	19637281.46	19637281.58	19637281.70	0.0089	0.0035
Mercury	49053-03-11 03:07 G	19637369.52	19637369.63	19637369.75	0.0089	0.0042
Mercury	49053-06-07 04:19 G	19637457.58	19637457.68	19637457.80	0.0089	0.0050
Mercury	49053-09-03 05:31 G	19637545.64	19637545.73	19637545.84	0.0089	0.0058
Mercury	49053-11-30 06:58 G	19637633.70	19637633.79	19637633.88	0.0089	0.0065
Mercury	49054-02-26 08:10 G	19637721.77	19637721.84	19637721.92	0.0089	0.0073
Mercury	49054-05-25 09:07 G	19637809.84	19637809.88	19637809.95	0.0089	0.0081
Mercury	49054-08-21 10:34 G	19637897.93	19637897.94	19637897.96	0.0089	0.0088
Earth	49065-12-30 15:36 G	19642047.15	19642047.15	19642047.16	0.0088	0.0088
Earth	49067-01-02 03:07 G	19642414.47	19642414.63	19642414.84	0.0088	0.0061
Moon	49067-01-02 05:31 G	19642414.54	19642414.73	19642414.93	0.0088	0.0057 *
Moon	49068-01-04 11:46 G	19642781.77	19642781.99	19642782.25	0.0088	0.0039
Earth	49068-01-04 15:22 G	19642781.91	19642782.14	19642782.39	0.0088	0.0034 *
Earth	49069-01-06 03:22 G	19643149.38	19643149.64	19643149.90	0.0088	0.0006
Moon	49069-01-06 06:43 G	19643149.52	19643149.78	19643150.04	0.0088	0.0002 *
Moon	49070-01-08 11:31 G	19643516.73	19643516.98	19643517.24	0.0088	0.0017
Earth	49070-01-08 15:07 G	19643516.89	19643517.13	19643517.39	0.0088	0.0022 *
Earth	49071-01-11 02:38 G	19643884.41	19643884.61	19643884.85	0.0088	0.0049
Moon	49071-01-11 06:00 G	19643884.55	19643884.75	19643884.97	0.0088	0.0054 *
Moon	49072-01-13 12:29 G	19644251.89	19644252.02	19644252.17	0.0088	0.0072
Earth	49072-01-13 14:38 G	19644252.00	19644252.11	19644252.25	0.0088	0.0076 *
Venus	49091-12-11 00:43 G	19651523.46	19651523.53	19651523.65	0.0088	0.0079
Venus	49092-07-23 13:55 G	19651748.95	19651749.08	19651749.22	0.0088	0.0069
Venus	49093-03-06 02:10 G	19651974.45	19651974.59	19651974.77	0.0088	0.0060
Venus	49093-10-17 15:07 G	19652199.95	19652200.13	19652200.31	0.0088	0.0050
Venus	49094-05-31 03:36 G	19652425.46	19652425.65	19652425.85	0.0088	0.0041
Venus	49095-01-11 16:34 G	19652650.98	19652651.19	19652651.40	0.0088	0.0031
Venus	49095-08-25 05:02 G	19652876.50	19652876.71	19652876.93	0.0088	0.0022

Venus	49096-04-06 17:46 G	19653102.03	19653102.24	19653102.46	0.0088	0.0012
Venus	49096-11-18 06:29 G	19653327.55	19653327.77	19653327.99	0.0088	0.0003
Venus	49097-07-01 19:12 G	19653553.08	19653553.30	19653553.52	0.0088	0.0007
Venus	49098-02-12 07:55 G	19653778.61	19653778.83	19653779.05	0.0088	0.0017
Venus	49098-09-25 20:24 G	19654004.15	19654004.35	19654004.57	0.0088	0.0027
Venus	49099-05-09 09:22 G	19654229.69	19654229.89	19654230.09	0.0088	0.0036
Venus	49099-12-20 21:50 G	19654455.23	19654455.41	19654455.61	0.0088	0.0046
Venus	49100-08-03 10:19 G	19654680.78	19654680.93	19654681.12	0.0088	0.0056
Venus	49101-03-16 23:17 G	19654906.33	19654906.47	19654906.63	0.0088	0.0065
Venus	49101-10-28 11:31 G	19655131.89	19655131.98	19655132.12	0.0088	0.0075
Venus	49102-06-11 00:29 G	19655357.47	19655357.52	19655357.60	0.0088	0.0084
Mars	49111-12-26 06:14 G	19658842.53	19658842.76	19658843.04	0.0088	0.0051
Mars	49113-11-19 23:46 G	19659537.26	19659537.49	19659537.77	0.0088	0.0052
Mercury	49133-07-04 18:00 G	19666704.24	19666704.25	19666704.30	0.0089	0.0088
Mercury	49133-09-30 22:05 G	19666792.33	19666792.42	19666792.53	0.0089	0.0076
Mercury	49133-12-28 01:41 G	19666880.45	19666880.57	19666880.72	0.0089	0.0065
Mercury	49134-03-26 05:31 G	19666968.58	19666968.73	19666968.90	0.0089	0.0053
Mercury	49134-06-22 09:07 G	19667056.72	19667056.88	19667057.07	0.0089	0.0042
Mercury	49134-09-18 13:12 G	19667144.86	19667145.05	19667145.24	0.0089	0.0030
Mercury	49134-12-15 16:48 G	19667233.01	19667233.20	19667233.40	0.0089	0.0019
Mercury	49135-03-13 20:38 G	19667321.16	19667321.36	19667321.56	0.0089	0.0007
Mercury	49135-06-10 00:29 G	19667409.32	19667409.52	19667409.72	0.0089	0.0005
Mercury	49135-09-06 04:05 G	19667497.48	19667497.67	19667497.87	0.0089	0.0016
Mercury	49135-12-03 07:55 G	19667585.64	19667585.83	19667586.02	0.0089	0.0028
Mercury	49136-02-29 11:31 G	19667673.81	19667673.98	19667674.17	0.0089	0.0040
Mercury	49136-05-27 15:22 G	19667761.98	19667762.14	19667762.31	0.0089	0.0051
Mercury	49136-08-23 18:58 G	19667850.16	19667850.29	19667850.44	0.0089	0.0063
Mercury	49136-11-19 23:02 G	19667938.35	19667938.46	19667938.57	0.0089	0.0074
Mercury	49137-02-16 02:24 G	19668026.57	19668026.60	19668026.67	0.0089	0.0086
Moon	49149-07-03 20:53 G	19672547.28	19672547.37	19672547.50	0.0089	0.0081

Earth	49149-07-04 00:29 G	19672547.44	19672547.52	19672547.63	0.0089	0.0082	*
Earth	49150-07-06 12:00 G	19672914.80	19672915.00	19672915.21	0.0089	0.0054	
Moon	49150-07-06 15:07 G	19672914.96	19672915.13	19672915.35	0.0089	0.0058	*
Moon	49151-07-08 20:10 G	19673282.11	19673282.34	19673282.59	0.0089	0.0024	
Earth	49151-07-08 23:46 G	19673282.24	19673282.49	19673282.73	0.0089	0.0027	*
Earth	49152-07-10 11:02 G	19673649.70	19673649.96	19673650.22	0.0089	0.0002	
Moon	49152-07-10 13:12 G	19673649.79	19673650.05	19673650.32	0.0089	0.0002	*
Moon	49153-07-12 20:24 G	19674017.14	19674017.35	19674017.60	0.0089	0.0034	
Earth	49153-07-12 22:19 G	19674017.20	19674017.43	19674017.68	0.0089	0.0030	*
Moon	49154-07-15 09:36 G	19674384.70	19674384.90	19674385.12	0.0089	0.0054	
Earth	49154-07-15 09:36 G	19674384.72	19674384.90	19674385.10	0.0089	0.0058	*
Earth	49155-07-17 20:53 G	19674752.31	19674752.37	19674752.46	0.0089	0.0086	
Moon	49155-07-17 21:50 G	19674752.40	19674752.41	19674752.47	0.0089	0.0089	*
Venus	49174-01-27 04:48 G	19681520.63	19681520.70	19681520.78	0.0090	0.0084	
Venus	49174-09-09 18:00 G	19681746.14	19681746.25	19681746.39	0.0090	0.0074	
Venus	49175-04-23 07:26 G	19681971.67	19681971.81	19681971.97	0.0090	0.0064	
Venus	49175-12-04 20:53 G	19682197.20	19682197.37	19682197.55	0.0090	0.0054	
Venus	49176-07-17 10:19 G	19682422.75	19682422.93	19682423.13	0.0090	0.0044	
Venus	49177-02-27 23:46 G	19682648.30	19682648.49	19682648.70	0.0090	0.0034	
Venus	49177-10-11 13:12 G	19682873.84	19682874.05	19682874.27	0.0090	0.0023	
Venus	49178-05-25 02:38 G	19683099.40	19683099.61	19683099.83	0.0090	0.0013	
Venus	49179-01-05 16:05 G	19683324.95	19683325.17	19683325.39	0.0090	0.0003	
Venus	49179-08-19 05:31 G	19683550.51	19683550.73	19683550.95	0.0090	0.0007	
Venus	49180-03-31 18:43 G	19683776.07	19683776.28	19683776.50	0.0090	0.0017	
Venus	49180-11-12 07:55 G	19684001.63	19684001.83	19684002.05	0.0090	0.0028	
Venus	49181-06-25 21:22 G	19684227.20	19684227.39	19684227.60	0.0090	0.0038	
Venus	49182-02-06 10:34 G	19684452.77	19684452.94	19684453.14	0.0090	0.0048	
Venus	49182-09-19 23:46 G	19684678.34	19684678.49	19684678.68	0.0090	0.0058	
Venus	49183-05-03 13:12 G	19684903.92	19684904.05	19684904.20	0.0090	0.0068	
Venus	49183-12-15 02:24 G	19685129.51	19685129.60	19685129.72	0.0090	0.0078	

Venus	49184-07-27 15:50 G	19685355.13	19685355.16	19685355.22	0.0090	0.0088
Mars	49193-11-30 11:31 G	19688767.69	19688767.98	19688768.28	0.0089	0.0030
Mars	49195-10-26 07:55 G	19689462.69	19689462.83	19689463.00	0.0089	0.0078
Mercury	49213-11-01 04:48 G	19696043.69	19696043.70	19696043.74	0.0089	0.0087
Mercury	49214-01-28 06:14 G	19696131.71	19696131.76	19696131.82	0.0089	0.0079
Mercury	49214-04-26 07:41 G	19696219.74	19696219.82	19696219.90	0.0089	0.0071
Mercury	49214-07-23 08:38 G	19696307.78	19696307.86	19696307.96	0.0089	0.0064
Mercury	49214-10-19 10:05 G	19696395.83	19696395.92	19696396.03	0.0089	0.0056
Mercury	49215-01-15 11:31 G	19696483.87	19696483.98	19696484.09	0.0089	0.0048
Mercury	49215-04-13 12:43 G	19696571.92	19696572.03	19696572.15	0.0089	0.0040
Mercury	49215-07-10 13:55 G	19696659.97	19696660.08	19696660.21	0.0089	0.0033
Mercury	49215-10-06 15:22 G	19696748.01	19696748.14	19696748.26	0.0089	0.0025
Mercury	49216-01-02 16:34 G	19696836.06	19696836.19	19696836.32	0.0089	0.0017
Mercury	49216-03-30 17:46 G	19696924.11	19696924.24	19696924.38	0.0089	0.0010
Mercury	49216-06-26 19:12 G	19697012.17	19697012.30	19697012.43	0.0089	0.0002
Mercury	49216-09-22 20:24 G	19697100.22	19697100.35	19697100.48	0.0089	0.0006
Mercury	49216-12-19 21:36 G	19697188.27	19697188.40	19697188.53	0.0089	0.0014
Mercury	49217-03-17 22:48 G	19697276.33	19697276.45	19697276.58	0.0089	0.0021
Mercury	49217-06-14 00:14 G	19697364.38	19697364.51	19697364.63	0.0089	0.0029
Mercury	49217-09-10 01:12 G	19697452.44	19697452.55	19697452.68	0.0089	0.0037
Mercury	49217-12-07 02:38 G	19697540.50	19697540.61	19697540.73	0.0089	0.0044
Mercury	49218-03-05 03:50 G	19697628.56	19697628.66	19697628.77	0.0089	0.0052
Mercury	49218-06-01 05:02 G	19697716.62	19697716.71	19697716.81	0.0089	0.0060
Mercury	49218-08-28 06:29 G	19697804.69	19697804.77	19697804.85	0.0089	0.0067
Mercury	49218-11-24 07:26 G	19697892.75	19697892.81	19697892.89	0.0089	0.0075
Mercury	49219-02-20 08:38 G	19697980.83	19697980.86	19697980.92	0.0089	0.0083
Moon	49231-01-02 06:14 G	19702314.66	19702314.76	19702314.93	0.0088	0.0077
Earth	49231-01-02 09:50 G	19702314.80	19702314.91	19702315.06	0.0088	0.0076 *
Earth	49232-01-04 22:05 G	19702682.21	19702682.42	19702682.64	0.0088	0.0048
Moon	49232-01-05 01:55 G	19702682.37	19702682.58	19702682.80	0.0088	0.0048 *

Moon	49233-01-06 06:58 G	19703049.55	19703049.79	19703050.04	0.0088	0.0021
Earth	49233-01-06 09:50 G	19703049.67	19703049.91	19703050.18	0.0088	0.0022 *
Earth	49234-01-08 21:50 G	19703417.16	19703417.41	19703417.68	0.0088	0.0008
Moon	49234-01-09 00:58 G	19703417.28	19703417.54	19703417.81	0.0088	0.0008 *
Moon	49235-01-11 07:55 G	19703784.61	19703784.83	19703785.08	0.0088	0.0034
Earth	49235-01-11 09:50 G	19703784.68	19703784.91	19703785.16	0.0088	0.0034 *
Earth	49236-01-13 21:36 G	19704152.22	19704152.40	19704152.59	0.0088	0.0062
Moon	49236-01-13 21:50 G	19704152.22	19704152.41	19704152.61	0.0088	0.0062 *
Venus	49256-03-14 10:05 G	19711517.86	19711517.92	19711518.03	0.0088	0.0081
Venus	49256-10-25 23:02 G	19711743.34	19711743.46	19711743.60	0.0088	0.0071
Venus	49257-06-08 11:31 G	19711968.84	19711968.98	19711969.15	0.0088	0.0062
Venus	49258-01-20 00:00 G	19712194.35	19712194.50	19712194.70	0.0088	0.0053
Venus	49258-09-02 12:58 G	19712419.86	19712420.04	19712420.24	0.0088	0.0043
Venus	49259-04-16 01:26 G	19712645.37	19712645.56	19712645.78	0.0088	0.0034
Venus	49259-11-27 14:24 G	19712870.89	19712871.10	19712871.32	0.0088	0.0024
Venus	49260-07-10 03:07 G	19713096.42	19713096.63	19713096.85	0.0088	0.0014
Venus	49261-02-20 15:50 G	19713321.94	19713322.16	19713322.38	0.0088	0.0005
Venus	49261-10-04 04:19 G	19713547.46	19713547.68	19713547.90	0.0088	0.0005
Venus	49262-05-17 17:02 G	19713772.99	19713773.21	19713773.43	0.0088	0.0014
Venus	49262-12-29 05:31 G	19713998.53	19713998.73	19713998.96	0.0088	0.0024
Venus	49263-08-11 18:29 G	19714224.07	19714224.27	19714224.48	0.0088	0.0033
Venus	49264-03-24 06:58 G	19714449.61	19714449.79	19714449.99	0.0088	0.0043
Venus	49264-11-04 19:41 G	19714675.15	19714675.32	19714675.50	0.0088	0.0052
Venus	49265-06-18 08:10 G	19714900.70	19714900.84	19714901.01	0.0088	0.0062
Venus	49266-01-29 21:07 G	19715126.26	19715126.38	19715126.52	0.0088	0.0071
Venus	49266-09-12 09:22 G	19715351.83	19715351.89	19715352.01	0.0088	0.0081
Mars	49277-07-04 11:17 G	19719299.66	19719299.97	19719300.29	0.0088	0.0011
Mercury	49298-03-31 15:22 G	19726875.11	19726875.14	19726875.20	0.0088	0.0086
Mercury	49298-06-27 18:58 G	19726963.21	19726963.29	19726963.42	0.0089	0.0075
Mercury	49298-09-23 23:02 G	19727051.33	19727051.46	19727051.60	0.0089	0.0063



Mercury	49298-12-21 02:38 G	19727139.46	19727139.61	19727139.78	0.0089	0.0051
Mercury	49299-03-19 06:29 G	19727227.60	19727227.77	19727227.95	0.0089	0.0040
Mercury	49299-06-15 10:05 G	19727315.74	19727315.92	19727316.12	0.0089	0.0029
Mercury	49299-09-11 14:10 G	19727403.89	19727404.09	19727404.28	0.0089	0.0017
Mercury	49299-12-08 17:46 G	19727492.05	19727492.24	19727492.44	0.0089	0.0006
Mercury	49300-03-06 21:36 G	19727580.20	19727580.40	19727580.60	0.0089	0.0006
Mercury	49300-06-03 01:12 G	19727668.36	19727668.55	19727668.75	0.0089	0.0018
Mercury	49300-08-30 04:48 G	19727756.53	19727756.70	19727756.90	0.0089	0.0030
Mercury	49300-11-26 08:38 G	19727844.69	19727844.86	19727845.05	0.0089	0.0041
Mercury	49301-02-22 12:14 G	19727932.87	19727933.01	19727933.19	0.0089	0.0053
Mercury	49301-05-21 16:19 G	19728021.05	19728021.18	19728021.32	0.0089	0.0064
Mercury	49301-08-17 19:41 G	19728109.24	19728109.32	19728109.44	0.0089	0.0076
Mercury	49301-11-13 23:17 G	19728197.47	19728197.47	19728197.53	0.0089	0.0088
Moon	49314-07-06 15:36 G	19732815.03	19732815.15	19732815.30	0.0089	0.0075
Earth	49314-07-06 18:29 G	19732815.12	19732815.27	19732815.43	0.0089	0.0070 *
Earth	49315-07-09 06:00 G	19733182.53	19733182.75	19733182.97	0.0089	0.0043
Moon	49315-07-09 07:55 G	19733182.60	19733182.83	19733183.07	0.0089	0.0038 *
Moon	49316-07-10 16:48 G	19733549.97	19733550.20	19733550.46	0.0089	0.0019
Earth	49316-07-10 17:31 G	19733549.97	19733550.23	19733550.48	0.0089	0.0015 *
Moon	49317-07-13 04:05 G	19733917.42	19733917.67	19733917.94	0.0089	0.0017
Earth	49317-07-13 04:48 G	19733917.45	19733917.70	19733917.95	0.0089	0.0013 *
Earth	49318-07-15 16:05 G	19734284.95	19734285.17	19734285.40	0.0089	0.0042
Moon	49318-07-15 17:31 G	19734285.02	19734285.23	19734285.47	0.0089	0.0038 *
Moon	49319-07-18 00:00 G	19734652.39	19734652.50	19734652.68	0.0089	0.0074
Earth	49319-07-18 03:36 G	19734652.50	19734652.65	19734652.82	0.0089	0.0070 *
Venus	49338-05-01 12:43 G	19741515.00	19741515.03	19741515.11	0.0090	0.0087
Venus	49338-12-13 02:10 G	19741740.50	19741740.59	19741740.72	0.0090	0.0077
Venus	49339-07-26 15:36 G	19741966.02	19741966.15	19741966.32	0.0090	0.0067
Venus	49340-03-08 05:02 G	19742191.56	19742191.71	19742191.90	0.0090	0.0057
Venus	49340-10-19 18:29 G	19742417.10	19742417.27	19742417.47	0.0090	0.0047

Venus	49341-06-02 07:55 G	19742642.64	19742642.83	19742643.05	0.0090	0.0037
Venus	49342-01-13 21:22 G	19742868.19	19742868.39	19742868.61	0.0090	0.0027
Venus	49342-08-27 11:02 G	19743093.75	19743093.96	19743094.18	0.0090	0.0016
Venus	49343-04-10 00:29 G	19743319.30	19743319.52	19743319.74	0.0090	0.0006
Venus	49343-11-21 13:55 G	19743544.86	19743545.08	19743545.30	0.0090	0.0004
Venus	49344-07-04 03:22 G	19743770.43	19743770.64	19743770.86	0.0090	0.0014
Venus	49345-02-14 16:34 G	19743995.99	19743996.19	19743996.41	0.0090	0.0025
Venus	49345-09-28 05:46 G	19744221.55	19744221.74	19744221.96	0.0090	0.0035
Venus	49346-05-11 19:12 G	19744447.12	19744447.30	19744447.50	0.0090	0.0045
Venus	49346-12-23 08:24 G	19744672.70	19744672.85	19744673.04	0.0090	0.0055
Venus	49347-08-05 21:50 G	19744898.28	19744898.41	19744898.58	0.0090	0.0065
Venus	49348-03-18 11:02 G	19745123.86	19745123.96	19745124.10	0.0090	0.0075
Venus	49348-10-30 00:43 G	19745349.46	19745349.53	19745349.61	0.0090	0.0084
Mars	49357-07-15 18:29 G	19748530.13	19748530.27	19748530.48	0.0089	0.0075
Mars	49359-06-10 18:00 G	19749224.99	19749225.25	19749225.56	0.0089	0.0036
Mercury	49378-07-30 04:19 G	19756214.65	19756214.68	19756214.72	0.0089	0.0085
Mercury	49378-10-26 05:31 G	19756302.68	19756302.73	19756302.80	0.0089	0.0078
Mercury	49379-01-22 06:43 G	19756390.71	19756390.78	19756390.87	0.0089	0.0070
Mercury	49379-04-20 08:10 G	19756478.75	19756478.84	19756478.94	0.0089	0.0062
Mercury	49379-07-17 09:36 G	19756566.80	19756566.90	19756567.00	0.0089	0.0054
Mercury	49379-10-13 10:48 G	19756654.84	19756654.95	19756655.06	0.0089	0.0047
Mercury	49380-01-09 12:00 G	19756742.89	19756743.00	19756743.12	0.0089	0.0039
Mercury	49380-04-06 13:26 G	19756830.94	19756831.06	19756831.18	0.0089	0.0031
Mercury	49380-07-03 14:38 G	19756918.99	19756919.11	19756919.24	0.0089	0.0023
Mercury	49380-09-29 15:50 G	19757007.04	19757007.16	19757007.30	0.0089	0.0016
Mercury	49380-12-26 17:17 G	19757095.09	19757095.22	19757095.35	0.0089	0.0008
Mercury	49381-03-24 18:29 G	19757183.14	19757183.27	19757183.40	0.0089	0.0001
Mercury	49381-06-20 19:41 G	19757271.19	19757271.32	19757271.46	0.0089	0.0008
Mercury	49381-09-16 20:53 G	19757359.25	19757359.37	19757359.51	0.0089	0.0016
Mercury	49381-12-13 22:19 G	19757447.30	19757447.43	19757447.56	0.0089	0.0023

Mercury	49382-03-11 23:31 G	19757535.36	19757535.48	19757535.61	0.0089	0.0031
Mercury	49382-06-08 00:43 G	19757623.42	19757623.53	19757623.65	0.0089	0.0038
Mercury	49382-09-04 01:55 G	19757711.48	19757711.58	19757711.70	0.0089	0.0046
Mercury	49382-12-01 03:07 G	19757799.54	19757799.63	19757799.74	0.0089	0.0054
Mercury	49383-02-27 04:34 G	19757887.60	19757887.69	19757887.79	0.0089	0.0061
Mercury	49383-05-26 05:46 G	19757975.66	19757975.74	19757975.82	0.0089	0.0069
Mercury	49383-08-22 06:43 G	19758063.73	19758063.78	19758063.86	0.0089	0.0077
Mercury	49383-11-18 08:24 G	19758151.81	19758151.85	19758151.89	0.0089	0.0084
Jupiter	49394-01-03 09:07 G	19761850.38	19761850.88	19761851.44	0.0088	0.0022
Moon	49396-01-05 00:58 G	19762582.36	19762582.54	19762582.74	0.0088	0.0059
Earth	49396-01-05 03:50 G	19762582.50	19762582.66	19762582.86	0.0088	0.0064 *
Earth	49397-01-06 16:05 G	19762949.94	19762950.17	19762950.42	0.0088	0.0036
Moon	49397-01-06 18:00 G	19762950.02	19762950.25	19762950.49	0.0088	0.0041 *
Moon	49398-01-09 03:07 G	19763317.39	19763317.63	19763317.89	0.0088	0.0005
Earth	49398-01-09 04:05 G	19763317.42	19763317.67	19763317.94	0.0088	0.0009 *
Moon	49399-01-11 15:50 G	19763684.89	19763685.16	19763685.43	0.0088	0.0014
Earth	49399-01-11 15:50 G	19763684.91	19763685.16	19763685.42	0.0088	0.0019 *
Earth	49400-01-14 03:36 G	19764052.44	19764052.65	19764052.88	0.0088	0.0046
Moon	49400-01-14 05:02 G	19764052.53	19764052.71	19764052.94	0.0088	0.0051 *
Moon	49401-01-16 13:12 G	19764419.89	19764420.05	19764420.22	0.0088	0.0069
Earth	49401-01-16 15:07 G	19764420.02	19764420.13	19764420.30	0.0088	0.0074 *
Venus	49420-06-17 19:55 G	19771512.25	19771512.33	19771512.40	0.0088	0.0082
Venus	49421-01-29 08:10 G	19771737.74	19771737.84	19771737.98	0.0088	0.0073
Venus	49421-09-11 20:38 G	19771963.23	19771963.36	19771963.53	0.0088	0.0064
Venus	49422-04-25 09:22 G	19772188.74	19772188.89	19772189.08	0.0088	0.0055
Venus	49422-12-06 22:19 G	19772414.25	19772414.43	19772414.63	0.0088	0.0045
Venus	49423-07-20 11:02 G	19772639.77	19772639.96	19772640.17	0.0088	0.0036
Venus	49424-03-01 23:46 G	19772865.28	19772865.49	19772865.70	0.0088	0.0026
Venus	49424-10-13 12:14 G	19773090.80	19773091.01	19773091.23	0.0088	0.0017
Venus	49425-05-27 00:58 G	19773316.32	19773316.54	19773316.76	0.0088	0.0007

Venus	49426-01-07 13:41 G	19773541.85	19773542.07	19773542.29	0.0088	0.0002
Venus	49426-08-21 02:10 G	19773767.38	19773767.59	19773767.82	0.0088	0.0012
Venus	49427-04-03 14:53 G	19773992.91	19773993.12	19773993.34	0.0088	0.0021
Venus	49427-11-15 03:07 G	19774218.44	19774218.63	19774218.85	0.0088	0.0031
Venus	49428-06-27 15:50 G	19774443.98	19774444.16	19774444.37	0.0088	0.0040
Venus	49429-02-08 04:48 G	19774669.52	19774669.70	19774669.88	0.0088	0.0049
Venus	49429-09-21 17:02 G	19774895.06	19774895.21	19774895.39	0.0088	0.0059
Venus	49430-05-05 05:46 G	19775120.62	19775120.74	19775120.89	0.0088	0.0068
Venus	49430-12-16 18:43 G	19775346.18	19775346.28	19775346.39	0.0088	0.0077
Venus	49431-07-30 06:58 G	19775571.78	19775571.79	19775571.85	0.0088	0.0087
Mars	49441-02-17 23:31 G	19779062.20	19779062.48	19779062.79	0.0088	0.0031
Mars	49443-01-13 14:24 G	19779756.95	19779757.10	19779757.30	0.0088	0.0073
Mercury	49462-12-28 12:14 G	19787045.98	19787046.01	19787046.09	0.0088	0.0085
Mercury	49463-03-26 16:19 G	19787134.08	19787134.18	19787134.30	0.0089	0.0073
Mercury	49463-06-22 19:55 G	19787222.20	19787222.33	19787222.48	0.0089	0.0062
Mercury	49463-09-19 00:00 G	19787310.34	19787310.50	19787310.66	0.0089	0.0050
Mercury	49463-12-16 03:22 G	19787398.48	19787398.64	19787398.83	0.0089	0.0039
Mercury	49464-03-13 07:12 G	19787486.62	19787486.80	19787487.00	0.0089	0.0027
Mercury	49464-06-09 11:02 G	19787574.77	19787574.96	19787575.16	0.0089	0.0016
Mercury	49464-09-05 14:53 G	19787662.92	19787663.12	19787663.32	0.0089	0.0004
Mercury	49464-12-02 18:29 G	19787751.08	19787751.27	19787751.47	0.0089	0.0008
Mercury	49465-02-28 22:19 G	19787839.24	19787839.43	19787839.62	0.0089	0.0019
Mercury	49465-05-28 01:55 G	19787927.40	19787927.58	19787927.77	0.0089	0.0031
Mercury	49465-08-24 05:46 G	19788015.57	19788015.74	19788015.92	0.0089	0.0042
Mercury	49465-11-20 09:22 G	19788103.74	19788103.89	19788104.06	0.0089	0.0054
Mercury	49466-02-16 13:12 G	19788191.92	19788192.05	19788192.19	0.0089	0.0065
Mercury	49466-05-15 16:48 G	19788280.11	19788280.20	19788280.31	0.0089	0.0077
Mercury	49466-08-11 20:53 G	19788368.35	19788368.37	19788368.39	0.0089	0.0088
Earth	49478-07-06 23:46 G	19792715.46	19792715.49	19792715.56	0.0089	0.0087
Moon	49478-07-07 00:29 G	19792715.48	19792715.52	19792715.62	0.0089	0.0086 *

Earth	49479-07-09 11:02 G	19793082.79	19793082.96	19793083.17	0.0089	0.0060
Moon	49479-07-09 10:48 G	19793082.80	19793082.95	19793083.16	0.0089	0.0061 *
Moon	49480-07-10 20:53 G	19793450.13	19793450.37	19793450.62	0.0089	0.0030
Earth	49480-07-10 22:34 G	19793450.21	19793450.44	19793450.69	0.0089	0.0031 *
Earth	49481-07-13 10:05 G	19793817.66	19793817.92	19793818.18	0.0089	0.0003
Moon	49481-07-13 12:29 G	19793817.77	19793818.02	19793818.27	0.0089	0.0004 *
Moon	49482-07-15 18:00 G	19794185.02	19794185.25	19794185.52	0.0089	0.0027
Earth	49482-07-15 21:22 G	19794185.16	19794185.39	19794185.65	0.0089	0.0025 *
Earth	49483-07-18 08:38 G	19794552.67	19794552.86	19794553.08	0.0089	0.0054
Moon	49483-07-18 12:14 G	19794552.82	19794553.01	19794553.23	0.0089	0.0052 *
Moon	49484-07-19 16:34 G	19794920.13	19794920.19	19794920.31	0.0089	0.0084
Earth	49484-07-19 20:10 G	19794920.26	19794920.34	19794920.46	0.0089	0.0082 *
Venus	49502-08-04 20:38 G	19801509.35	19801509.36	19801509.41	0.0090	0.0089
Venus	49503-03-18 10:19 G	19801734.84	19801734.93	19801735.04	0.0090	0.0079
Venus	49503-10-29 23:46 G	19801960.35	19801960.49	19801960.63	0.0090	0.0069
Venus	49504-06-11 12:43 G	19802185.89	19802186.03	19802186.22	0.0090	0.0060
Venus	49505-01-23 02:10 G	19802411.43	19802411.59	19802411.79	0.0090	0.0050
Venus	49505-09-05 15:36 G	19802636.97	19802637.15	19802637.36	0.0090	0.0040
Venus	49506-04-19 05:02 G	19802862.51	19802862.71	19802862.93	0.0090	0.0030
Venus	49506-11-30 18:29 G	19803088.06	19803088.27	19803088.49	0.0090	0.0020
Venus	49507-07-14 08:10 G	19803313.62	19803313.84	19803314.06	0.0090	0.0009
Venus	49508-02-24 21:36 G	19803539.18	19803539.40	19803539.62	0.0090	0.0001
Venus	49508-10-07 10:48 G	19803764.74	19803764.95	19803765.17	0.0090	0.0011
Venus	49509-05-21 00:14 G	19803990.30	19803990.51	19803990.73	0.0090	0.0021
Venus	49510-01-01 13:41 G	19804215.87	19804216.07	19804216.28	0.0090	0.0031
Venus	49510-08-15 03:07 G	19804441.44	19804441.63	19804441.83	0.0090	0.0041
Venus	49511-03-28 16:19 G	19804667.01	19804667.18	19804667.37	0.0090	0.0051
Venus	49511-11-09 05:31 G	19804892.59	19804892.73	19804892.91	0.0090	0.0061
Venus	49512-06-21 18:58 G	19805118.18	19805118.29	19805118.44	0.0090	0.0071
Venus	49513-02-02 08:10 G	19805343.77	19805343.84	19805343.96	0.0090	0.0081

Mars	49523-01-25 00:00 G	19808987.18	19808987.50	19808987.81	0.0089	0.0010
Mercury	49543-04-28 03:36 G	19816385.62	19816385.65	19816385.69	0.0089	0.0084
Mercury	49543-07-25 04:34 G	19816473.64	19816473.69	19816473.77	0.0089	0.0077
Mercury	49543-10-21 06:00 G	19816561.68	19816561.75	19816561.84	0.0089	0.0069
Mercury	49544-01-17 07:26 G	19816649.72	19816649.81	19816649.91	0.0089	0.0061
Mercury	49544-04-14 08:53 G	19816737.76	19816737.87	19816737.97	0.0089	0.0053
Mercury	49544-07-11 09:50 G	19816825.81	19816825.91	19816826.03	0.0089	0.0046
Mercury	49544-10-07 11:17 G	19816913.86	19816913.97	19816914.09	0.0089	0.0038
Mercury	49545-01-03 12:43 G	19817001.90	19817002.03	19817002.15	0.0089	0.0030
Mercury	49545-04-01 13:55 G	19817089.95	19817090.08	19817090.21	0.0089	0.0022
Mercury	49545-06-28 15:07 G	19817178.00	19817178.13	19817178.26	0.0089	0.0015
Mercury	49545-09-24 16:19 G	19817266.05	19817266.18	19817266.32	0.0089	0.0008
Mercury	49545-12-21 17:46 G	19817354.11	19817354.24	19817354.37	0.0089	0.0001
Mercury	49546-03-19 18:58 G	19817442.16	19817442.29	19817442.42	0.0089	0.0008
Mercury	49546-06-15 20:10 G	19817530.21	19817530.34	19817530.47	0.0089	0.0016
Mercury	49546-09-11 21:22 G	19817618.27	19817618.39	19817618.52	0.0089	0.0024
Mercury	49546-12-08 22:34 G	19817706.33	19817706.44	19817706.57	0.0089	0.0032
Mercury	49547-03-07 00:00 G	19817794.38	19817794.50	19817794.62	0.0089	0.0039
Mercury	49547-06-03 01:12 G	19817882.44	19817882.55	19817882.66	0.0089	0.0047
Mercury	49547-08-30 02:24 G	19817970.50	19817970.60	19817970.71	0.0089	0.0055
Mercury	49547-11-26 03:50 G	19818058.57	19818058.66	19818058.75	0.0089	0.0062
Mercury	49548-02-22 04:48 G	19818146.63	19818146.70	19818146.79	0.0089	0.0070
Mercury	49548-05-20 06:00 G	19818234.70	19818234.75	19818234.83	0.0089	0.0078
Mercury	49548-08-16 07:26 G	19818322.78	19818322.81	19818322.85	0.0089	0.0085
Earth	49560-01-06 09:36 G	19822482.80	19822482.90	19822483.02	0.0088	0.0080
Moon	49560-01-06 10:48 G	19822482.86	19822482.95	19822483.11	0.0088	0.0079 *
Earth	49561-01-07 21:36 G	19822850.21	19822850.40	19822850.63	0.0088	0.0052
Moon	49561-01-07 21:50 G	19822850.23	19822850.41	19822850.62	0.0088	0.0054 *
Moon	49562-01-10 08:24 G	19823217.60	19823217.85	19823218.12	0.0088	0.0023
Earth	49562-01-10 09:50 G	19823217.67	19823217.91	19823218.17	0.0088	0.0024 *

Earth	49563-01-12 21:50 G	19823585.15	19823585.41	19823585.67	0.0088	0.0004
Moon	49563-01-12 23:46 G	19823585.24	19823585.49	19823585.75	0.0088	0.0003 *
Moon	49564-01-15 06:14 G	19823952.53	19823952.76	19823953.02	0.0088	0.0033
Earth	49564-01-15 09:36 G	19823952.67	19823952.90	19823953.16	0.0088	0.0031 *
Earth	49565-01-16 21:07 G	19824320.21	19824320.38	19824320.59	0.0088	0.0059
Moon	49565-01-17 00:58 G	19824320.35	19824320.54	19824320.74	0.0088	0.0057 *
Moon	49566-01-19 05:17 G	19824687.71	19824687.72	19824687.78	0.0088	0.0087
Earth	49566-01-19 09:07 G	19824687.85	19824687.88	19824687.95	0.0088	0.0086
Venus	49584-09-20 03:50 G	19831506.63	19831506.66	19831506.74	0.0088	0.0085
Venus	49585-05-03 17:02 G	19831732.10	19831732.21	19831732.33	0.0088	0.0075
Venus	49585-12-15 05:31 G	19831957.60	19831957.73	19831957.89	0.0088	0.0066
Venus	49586-07-28 18:14 G	19832183.11	19832183.26	19832183.44	0.0088	0.0057
Venus	49587-03-11 06:43 G	19832408.62	19832408.78	19832408.99	0.0088	0.0048
Venus	49587-10-22 19:41 G	19832634.13	19832634.32	19832634.53	0.0088	0.0038
Venus	49588-06-04 08:24 G	19832859.65	19832859.85	19832860.07	0.0088	0.0029
Venus	49589-01-15 21:07 G	19833085.17	19833085.38	19833085.60	0.0088	0.0020
Venus	49589-08-29 09:50 G	19833310.70	19833310.91	19833311.13	0.0088	0.0010
Venus	49590-04-11 22:34 G	19833536.22	19833536.44	19833536.66	0.0088	0.0001
Venus	49590-11-23 11:17 G	19833761.75	19833761.97	19833762.19	0.0088	0.0009
Venus	49591-07-06 23:46 G	19833987.28	19833987.49	19833987.71	0.0088	0.0018
Venus	49592-02-17 12:14 G	19834212.81	19834213.01	19834213.23	0.0088	0.0028
Venus	49592-09-30 00:43 G	19834438.34	19834438.53	19834438.74	0.0088	0.0037
Venus	49593-05-13 13:26 G	19834663.88	19834664.06	19834664.26	0.0088	0.0046
Venus	49593-12-25 01:55 G	19834889.43	19834889.58	19834889.77	0.0088	0.0056
Venus	49594-08-07 14:38 G	19835114.98	19835115.11	19835115.28	0.0088	0.0065
Venus	49595-03-21 03:07 G	19835340.53	19835340.63	19835340.77	0.0088	0.0074
Venus	49595-11-01 15:50 G	19835566.11	19835566.16	19835566.25	0.0088	0.0083
Mars	49604-10-03 13:12 G	19838824.91	19838825.05	19838825.26	0.0088	0.0072
Mars	49606-08-29 01:55 G	19839519.31	19839519.58	19839519.90	0.0088	0.0031
Mercury	49627-09-25 09:22 G	19847216.84	19847216.89	19847216.96	0.0088	0.0084

Mercury	49627-12-22 12:43 G	19847304.94	19847305.03	19847305.17	0.0088	0.0073
Mercury	49628-03-19 16:48 G	19847393.07	19847393.20	19847393.35	0.0088	0.0061
Mercury	49628-06-15 20:24 G	19847481.20	19847481.35	19847481.53	0.0088	0.0050
Mercury	49628-09-12 00:29 G	19847569.34	19847569.52	19847569.70	0.0088	0.0038
Mercury	49628-12-09 04:05 G	19847657.49	19847657.67	19847657.87	0.0089	0.0026
Mercury	49629-03-07 07:55 G	19847745.64	19847745.83	19847746.03	0.0089	0.0015
Mercury	49629-06-03 11:46 G	19847833.79	19847833.99	19847834.19	0.0089	0.0003
Mercury	49629-08-30 15:22 G	19847921.95	19847922.14	19847922.34	0.0089	0.0008
Mercury	49629-11-26 19:12 G	19848010.11	19848010.30	19848010.49	0.0089	0.0020
Mercury	49630-02-22 22:34 G	19848098.27	19848098.44	19848098.64	0.0089	0.0032
Mercury	49630-05-22 02:24 G	19848186.44	19848186.60	19848186.79	0.0089	0.0043
Mercury	49630-08-18 06:00 G	19848274.61	19848274.75	19848274.92	0.0089	0.0055
Mercury	49630-11-14 09:50 G	19848362.79	19848362.91	19848363.05	0.0089	0.0066
Mercury	49631-02-10 13:26 G	19848450.99	19848451.06	19848451.17	0.0089	0.0078
Moon	49643-07-09 14:10 G	19852983.00	19852983.09	19852983.23	0.0089	0.0081
Earth	49643-07-09 16:05 G	19852983.06	19852983.17	19852983.33	0.0089	0.0076 *
Earth	49644-07-11 03:22 G	19853350.45	19853350.64	19853350.88	0.0089	0.0049
Moon	49644-07-11 06:43 G	19853350.57	19853350.78	19853351.01	0.0089	0.0043 *
Moon	49645-07-13 11:31 G	19853717.74	19853717.98	19853718.23	0.0089	0.0024
Earth	49645-07-13 14:53 G	19853717.88	19853718.12	19853718.38	0.0089	0.0020 *
Earth	49646-07-16 02:24 G	19854085.34	19854085.60	19854085.85	0.0089	0.0008
Moon	49646-07-16 05:46 G	19854085.49	19854085.74	19854086.00	0.0089	0.0013 *
Moon	49647-07-18 10:05 G	19854452.71	19854452.92	19854453.18	0.0089	0.0033
Earth	49647-07-18 13:41 G	19854452.84	19854453.07	19854453.31	0.0089	0.0037 *
Earth	49648-07-20 00:58 G	19854820.37	19854820.54	19854820.72	0.0089	0.0065
Moon	49648-07-20 02:38 G	19854820.47	19854820.61	19854820.80	0.0089	0.0069 *
Moon	49649-07-22 10:34 G	19855187.94	19855187.94	19855187.98	0.0089	0.0089
Venus	49667-06-19 17:31 G	19861729.17	19861729.23	19861729.35	0.0090	0.0082
Venus	49668-01-31 07:12 G	19861954.68	19861954.80	19861954.94	0.0090	0.0072
Venus	49668-09-12 20:38 G	19862180.21	19862180.36	19862180.52	0.0090	0.0062



Venus	49669-04-26 10:05 G	19862405.74	19862405.92	19862406.10	0.0090	0.0052
Venus	49669-12-07 23:02 G	19862631.29	19862631.46	19862631.67	0.0090	0.0043
Venus	49670-07-21 12:43 G	19862856.84	19862857.03	19862857.24	0.0090	0.0033
Venus	49671-03-04 02:10 G	19863082.38	19863082.59	19863082.81	0.0090	0.0023
Venus	49671-10-15 15:36 G	19863307.93	19863308.15	19863308.37	0.0090	0.0013
Venus	49672-05-28 05:02 G	19863533.49	19863533.71	19863533.93	0.0090	0.0003
Venus	49673-01-08 18:14 G	19863759.05	19863759.26	19863759.49	0.0090	0.0008
Venus	49673-08-22 07:41 G	19863984.61	19863984.82	19863985.04	0.0090	0.0018
Venus	49674-04-04 20:53 G	19864210.18	19864210.37	19864210.59	0.0090	0.0028
Venus	49674-11-16 10:34 G	19864435.74	19864435.94	19864436.14	0.0090	0.0037
Venus	49675-06-30 00:00 G	19864661.32	19864661.50	19864661.69	0.0090	0.0047
Venus	49676-02-10 13:12 G	19864886.90	19864887.05	19864887.23	0.0090	0.0057
Venus	49676-09-23 02:24 G	19865112.48	19865112.60	19865112.77	0.0090	0.0067
Venus	49677-05-06 15:50 G	19865338.07	19865338.16	19865338.29	0.0090	0.0077
Venus	49677-12-18 05:31 G	19865563.68	19865563.73	19865563.79	0.0090	0.0086
Mars	49686-09-08 00:00 G	19868749.29	19868749.50	19868749.78	0.0090	0.0058
Mars	49688-08-03 02:53 G	19869444.37	19869444.62	19869444.87	0.0089	0.0054
Mercury	49708-01-24 02:53 G	19876556.58	19876556.62	19876556.66	0.0089	0.0083
Mercury	49708-04-21 03:50 G	19876644.61	19876644.66	19876644.74	0.0089	0.0076
Mercury	49708-07-18 05:17 G	19876732.64	19876732.72	19876732.81	0.0089	0.0068
Mercury	49708-10-14 06:43 G	19876820.69	19876820.78	19876820.88	0.0089	0.0060
Mercury	49709-01-10 07:41 G	19876908.73	19876908.82	19876908.94	0.0089	0.0053
Mercury	49709-04-08 09:07 G	19876996.78	19876996.88	19876997.00	0.0089	0.0045
Mercury	49709-07-05 10:34 G	19877084.82	19877084.94	19877085.06	0.0089	0.0037
Mercury	49709-10-01 11:46 G	19877172.87	19877172.99	19877173.12	0.0089	0.0029
Mercury	49709-12-28 12:58 G	19877260.92	19877261.04	19877261.17	0.0089	0.0022
Mercury	49710-03-26 14:24 G	19877348.97	19877349.10	19877349.23	0.0089	0.0014
Mercury	49710-06-22 15:36 G	19877437.02	19877437.15	19877437.28	0.0089	0.0006
Mercury	49710-09-18 16:48 G	19877525.07	19877525.20	19877525.34	0.0089	0.0003
Mercury	49710-12-15 18:14 G	19877613.13	19877613.26	19877613.39	0.0089	0.0010

Mercury	49711-03-13 19:26 G	19877701.18	19877701.31	19877701.44	0.0089	0.0017
Mercury	49711-06-09 20:38 G	19877789.24	19877789.36	19877789.49	0.0089	0.0025
Mercury	49711-09-05 21:50 G	19877877.29	19877877.41	19877877.54	0.0089	0.0033
Mercury	49711-12-02 23:17 G	19877965.35	19877965.47	19877965.58	0.0089	0.0040
Mercury	49712-02-29 00:14 G	19878053.41	19878053.51	19878053.63	0.0089	0.0048
Mercury	49712-05-27 01:26 G	19878141.47	19878141.56	19878141.67	0.0089	0.0056
Mercury	49712-08-23 02:53 G	19878229.53	19878229.62	19878229.71	0.0089	0.0063
Mercury	49712-11-19 04:05 G	19878317.60	19878317.67	19878317.75	0.0089	0.0071
Mercury	49713-02-15 05:17 G	19878405.67	19878405.72	19878405.79	0.0089	0.0079
Mercury	49713-05-14 06:43 G	19878493.75	19878493.78	19878493.81	0.0089	0.0086
Moon	49725-01-08 00:00 G	19882750.34	19882750.50	19882750.70	0.0088	0.0065
Earth	49725-01-08 01:55 G	19882750.45	19882750.58	19882750.77	0.0088	0.0069 *
Earth	49726-01-10 14:24 G	19883117.88	19883118.10	19883118.34	0.0088	0.0040
Moon	49726-01-10 17:31 G	19883118.01	19883118.23	19883118.46	0.0088	0.0044 *
Moon	49727-01-12 23:31 G	19883485.22	19883485.48	19883485.74	0.0088	0.0009
Earth	49727-01-13 02:38 G	19883485.36	19883485.61	19883485.87	0.0088	0.0013 *
Earth	49728-01-15 14:38 G	19883852.86	19883853.11	19883853.37	0.0088	0.0016
Moon	49728-01-15 18:29 G	19883853.02	19883853.27	19883853.53	0.0088	0.0011 *
Moon	49729-01-16 23:17 G	19884220.27	19884220.47	19884220.70	0.0088	0.0047
Earth	49729-01-17 02:24 G	19884220.39	19884220.60	19884220.84	0.0088	0.0044 *
Earth	49730-01-19 13:55 G	19884587.95	19884588.08	19884588.26	0.0088	0.0071
Moon	49730-01-19 17:31 G	19884588.06	19884588.23	19884588.40	0.0088	0.0067 *
Venus	49748-12-23 13:12 G	19891501.02	19891501.05	19891501.10	0.0088	0.0086
Venus	49749-08-06 01:55 G	19891726.48	19891726.58	19891726.69	0.0088	0.0077
Venus	49750-03-19 14:24 G	19891951.97	19891952.10	19891952.25	0.0088	0.0068
Venus	49750-10-31 02:53 G	19892177.47	19892177.62	19892177.80	0.0088	0.0059
Venus	49751-06-13 15:36 G	19892402.98	19892403.15	19892403.34	0.0088	0.0050
Venus	49752-01-25 04:19 G	19892628.50	19892628.68	19892628.89	0.0088	0.0041
Venus	49752-09-06 17:17 G	19892854.01	19892854.22	19892854.43	0.0088	0.0031
Venus	49753-04-20 05:46 G	19893079.53	19893079.74	19893079.96	0.0088	0.0022

Venus	49753-12-01 18:29 G	19893305.06	19893305.27	19893305.50	0.0088	0.0013
Venus	49754-07-15 07:12 G	19893530.58	19893530.80	19893531.02	0.0088	0.0004
Venus	49755-02-25 19:55 G	19893756.11	19893756.33	19893756.55	0.0088	0.0006
Venus	49755-10-09 08:10 G	19893981.64	19893981.84	19893982.07	0.0088	0.0016
Venus	49756-05-21 20:53 G	19894207.17	19894207.37	19894207.59	0.0088	0.0025
Venus	49757-01-02 09:36 G	19894432.71	19894432.90	19894433.11	0.0088	0.0034
Venus	49757-08-15 22:19 G	19894658.24	19894658.43	19894658.63	0.0088	0.0043
Venus	49758-03-29 10:48 G	19894883.78	19894883.95	19894884.13	0.0088	0.0052
Venus	49758-11-09 23:02 G	19895109.32	19895109.46	19895109.64	0.0088	0.0062
Venus	49759-06-23 11:31 G	19895334.88	19895334.98	19895335.14	0.0088	0.0071
Venus	49760-02-04 00:14 G	19895560.45	19895560.51	19895560.63	0.0088	0.0080
Mars	49770-04-13 15:36 G	19899281.84	19899282.15	19899282.46	0.0088	0.0011
Mercury	49792-06-22 05:46 G	19907387.70	19907387.74	19907387.83	0.0088	0.0084
Mercury	49792-09-18 09:50 G	19907475.80	19907475.91	19907476.03	0.0088	0.0072
Mercury	49792-12-15 13:26 G	19907563.93	19907564.06	19907564.22	0.0088	0.0061
Mercury	49793-03-13 17:31 G	19907652.06	19907652.23	19907652.39	0.0088	0.0049
Mercury	49793-06-09 20:53 G	19907740.20	19907740.37	19907740.56	0.0088	0.0038
Mercury	49793-09-06 00:58 G	19907828.35	19907828.54	19907828.73	0.0088	0.0026
Mercury	49793-12-03 04:34 G	19907916.50	19907916.69	19907916.89	0.0088	0.0015
Mercury	49794-03-01 08:24 G	19908004.65	19908004.85	19908005.05	0.0089	0.0003
Mercury	49794-05-28 12:00 G	19908092.81	19908093.00	19908093.20	0.0089	0.0009
Mercury	49794-08-24 15:50 G	19908180.97	19908181.16	19908181.35	0.0089	0.0020
Mercury	49794-11-20 19:26 G	19908269.13	19908269.31	19908269.50	0.0089	0.0032
Mercury	49795-02-16 23:17 G	19908357.30	19908357.47	19908357.64	0.0089	0.0043
Mercury	49795-05-16 02:53 G	19908445.47	19908445.62	19908445.78	0.0089	0.0055
Mercury	49795-08-12 06:14 G	19908533.65	19908533.76	19908533.91	0.0089	0.0067
Mercury	49795-11-08 10:19 G	19908621.85	19908621.93	19908622.03	0.0089	0.0078
Moon	49808-07-12 04:34 G	19913250.53	19913250.69	19913250.89	0.0089	0.0064
Earth	49808-07-12 08:10 G	19913250.69	19913250.84	19913251.04	0.0089	0.0065 *
Earth	49809-07-14 19:26 G	19913618.10	19913618.31	19913618.57	0.0089	0.0037

Moon	49809-07-14 22:48 G	19913618.23	19913618.45	19913618.70	0.0089	0.0038 *
Moon	49810-07-17 04:34 G	19913985.45	19913985.69	19913985.94	0.0089	0.0009
Earth	49810-07-17 07:26 G	19913985.55	19913985.81	19913986.06	0.0089	0.0009 *
Earth	49811-07-19 18:14 G	19914353.02	19914353.26	19914353.52	0.0089	0.0020
Moon	49811-07-19 20:24 G	19914353.09	19914353.35	19914353.60	0.0089	0.0020 *
Earth	49812-07-21 05:17 G	19914720.53	19914720.72	19914720.96	0.0089	0.0049
Moon	49812-07-21 05:17 G	19914720.53	19914720.72	19914720.95	0.0089	0.0049 *
Moon	49813-07-23 15:50 G	19915088.05	19915088.16	19915088.33	0.0089	0.0076
Earth	49813-07-23 16:48 G	19915088.09	19915088.20	19915088.35	0.0089	0.0076 *
Venus	49831-09-23 00:29 G	19921723.47	19921723.52	19921723.62	0.0090	0.0085
Venus	49832-05-05 13:55 G	19921948.98	19921949.08	19921949.22	0.0090	0.0075
Venus	49832-12-17 03:36 G	19922174.51	19922174.65	19922174.81	0.0090	0.0065
Venus	49833-07-30 17:17 G	19922400.05	19922400.22	19922400.39	0.0090	0.0055
Venus	49834-03-13 06:14 G	19922625.59	19922625.76	19922625.96	0.0090	0.0046
Venus	49834-10-24 19:41 G	19922851.13	19922851.32	19922851.53	0.0090	0.0036
Venus	49835-06-07 09:07 G	19923076.68	19923076.88	19923077.10	0.0090	0.0026
Venus	49836-01-18 22:48 G	19923302.23	19923302.45	19923302.66	0.0090	0.0016
Venus	49836-08-31 12:00 G	19923527.78	19923528.00	19923528.22	0.0090	0.0006
Venus	49837-04-14 01:26 G	19923753.34	19923753.56	19923753.78	0.0090	0.0004
Venus	49837-11-25 14:38 G	19923978.90	19923979.11	19923979.33	0.0090	0.0014
Venus	49838-07-09 04:05 G	19924204.47	19924204.67	19924204.89	0.0090	0.0023
Venus	49839-02-19 17:17 G	19924430.03	19924430.22	19924430.44	0.0090	0.0034
Venus	49839-10-03 06:58 G	19924655.60	19924655.79	19924655.98	0.0090	0.0043
Venus	49840-05-15 20:10 G	19924881.17	19924881.34	19924881.53	0.0090	0.0053
Venus	49840-12-27 09:22 G	19925106.75	19925106.89	19925107.07	0.0090	0.0063
Venus	49841-08-09 22:48 G	19925332.35	19925332.45	19925332.60	0.0090	0.0073
Venus	49842-03-23 12:29 G	19925557.95	19925558.02	19925558.12	0.0090	0.0082
Mars	49852-03-19 03:50 G	19929206.36	19929206.66	19929206.99	0.0090	0.0008
Mercury	49872-10-21 01:41 G	19936727.54	19936727.57	19936727.63	0.0089	0.0083
Mercury	49873-01-17 03:07 G	19936815.57	19936815.63	19936815.70	0.0089	0.0075

Mercury	49873-04-15 04:34 G	19936903.60	19936903.69	19936903.77	0.0089	0.0067
Mercury	49873-07-12 05:31 G	19936991.65	19936991.73	19936991.84	0.0089	0.0060
Mercury	49873-10-08 06:58 G	19937079.69	19937079.79	19937079.90	0.0089	0.0052
Mercury	49874-01-04 08:24 G	19937167.74	19937167.85	19937167.96	0.0089	0.0044
Mercury	49874-04-02 09:22 G	19937255.78	19937255.89	19937256.02	0.0089	0.0037
Mercury	49874-06-29 10:48 G	19937343.83	19937343.95	19937344.08	0.0089	0.0029
Mercury	49874-09-25 12:14 G	19937431.88	19937432.01	19937432.14	0.0089	0.0021
Mercury	49874-12-22 13:26 G	19937519.93	19937520.06	19937520.19	0.0089	0.0013
Mercury	49875-03-20 14:38 G	19937607.98	19937608.11	19937608.24	0.0089	0.0006
Mercury	49875-06-16 15:50 G	19937696.03	19937696.16	19937696.30	0.0089	0.0004
Mercury	49875-09-12 17:17 G	19937784.09	19937784.22	19937784.35	0.0089	0.0010
Mercury	49875-12-09 18:29 G	19937872.14	19937872.27	19937872.40	0.0089	0.0018
Mercury	49876-03-06 19:41 G	19937960.20	19937960.32	19937960.45	0.0089	0.0025
Mercury	49876-06-02 20:53 G	19938048.25	19938048.37	19938048.50	0.0089	0.0033
Mercury	49876-08-29 22:05 G	19938136.31	19938136.42	19938136.54	0.0089	0.0041
Mercury	49876-11-25 23:17 G	19938224.37	19938224.47	19938224.59	0.0089	0.0049
Mercury	49877-02-22 00:43 G	19938312.43	19938312.53	19938312.63	0.0089	0.0056
Mercury	49877-05-21 01:55 G	19938400.50	19938400.58	19938400.68	0.0089	0.0064
Mercury	49877-08-17 03:07 G	19938488.56	19938488.63	19938488.71	0.0089	0.0071
Mercury	49877-11-13 04:34 G	19938576.63	19938576.69	19938576.75	0.0089	0.0079
Mercury	49878-02-09 05:31 G	19938664.72	19938664.73	19938664.77	0.0089	0.0087
Earth	49889-01-08 06:43 G	19942650.74	19942650.78	19942650.89	0.0088	0.0085
Moon	49889-01-08 10:48 G	19942650.85	19942650.95	19942651.05	0.0088	0.0081 *
Moon	49890-01-10 15:22 G	19943017.97	19943018.14	19943018.35	0.0088	0.0061
Earth	49890-01-10 18:58 G	19943018.11	19943018.29	19943018.51	0.0088	0.0057 *
Earth	49891-01-13 07:26 G	19943385.57	19943385.81	19943386.06	0.0088	0.0028
Moon	49891-01-13 10:48 G	19943385.71	19943385.95	19943386.21	0.0088	0.0026 *
Moon	49892-01-15 16:34 G	19943752.94	19943753.19	19943753.45	0.0088	0.0004
Earth	49892-01-15 19:41 G	19943753.06	19943753.32	19943753.58	0.0088	0.0000 *
Earth	49893-01-17 07:12 G	19944120.56	19944120.80	19944121.06	0.0088	0.0028

Moon	49893-01-17 09:07 G	19944120.64	19944120.88	19944121.14	0.0088	0.0031 *
Moon	49894-01-19 18:00 G	19944488.07	19944488.25	19944488.47	0.0088	0.0053
Earth	49894-01-19 19:12 G	19944488.11	19944488.30	19944488.52	0.0088	0.0055 *
Earth	49895-01-22 06:43 G	19944855.73	19944855.78	19944855.90	0.0088	0.0083
Moon	49895-01-22 06:43 G	19944855.74	19944855.78	19944855.87	0.0088	0.0086 *
Venus	49913-11-09 10:34 G	19951720.85	19951720.94	19951721.04	0.0088	0.0079
Venus	49914-06-22 23:02 G	19951946.34	19951946.46	19951946.60	0.0088	0.0070
Venus	49915-02-03 11:46 G	19952171.84	19952171.99	19952172.16	0.0088	0.0061
Venus	49915-09-17 00:14 G	19952397.35	19952397.51	19952397.70	0.0088	0.0052
Venus	49916-04-29 12:58 G	19952622.86	19952623.04	19952623.24	0.0088	0.0043
Venus	49916-12-11 01:41 G	19952848.38	19952848.57	19952848.79	0.0088	0.0034
Venus	49917-07-24 14:24 G	19953073.90	19953074.10	19953074.32	0.0088	0.0025
Venus	49918-03-07 03:22 G	19953299.42	19953299.64	19953299.86	0.0088	0.0015
Venus	49918-10-18 15:50 G	19953524.94	19953525.16	19953525.38	0.0088	0.0006
Venus	49919-06-01 04:34 G	19953750.47	19953750.69	19953750.91	0.0088	0.0003
Venus	49920-01-12 17:17 G	19953976.01	19953976.22	19953976.44	0.0088	0.0013
Venus	49920-08-25 06:00 G	19954201.54	19954201.75	19954201.97	0.0088	0.0022
Venus	49921-04-07 18:29 G	19954427.07	19954427.27	19954427.48	0.0088	0.0031
Venus	49921-11-19 07:12 G	19954652.61	19954652.80	19954653.00	0.0088	0.0040
Venus	49922-07-02 19:26 G	19954878.15	19954878.31	19954878.51	0.0088	0.0050
Venus	49923-02-13 07:55 G	19955103.69	19955103.83	19955104.02	0.0088	0.0059
Venus	49923-09-26 20:38 G	19955329.24	19955329.36	19955329.52	0.0088	0.0068
Venus	49924-05-09 09:07 G	19955554.80	19955554.88	19955555.01	0.0088	0.0077
Venus	49924-12-20 21:36 G	19955780.38	19955780.40	19955780.48	0.0088	0.0086
Mars	49933-11-28 04:34 G	19959044.46	19959044.69	19959044.95	0.0088	0.0054
Mars	49935-10-23 15:50 G	19959738.92	19959739.16	19959739.44	0.0088	0.0050
Mercury	49957-03-21 02:38 G	19967558.56	19967558.61	19967558.70	0.0088	0.0083
Mercury	49957-06-17 06:14 G	19967646.67	19967646.76	19967646.90	0.0088	0.0072
Mercury	49957-09-13 10:19 G	19967734.79	19967734.93	19967735.08	0.0088	0.0060
Mercury	49957-12-10 13:55 G	19967822.93	19967823.08	19967823.26	0.0088	0.0049

Mercury	49958-03-08 18:00 G	19967911.07	19967911.25	19967911.43	0.0088	0.0037
Mercury	49958-06-04 21:36 G	19967999.21	19967999.40	19967999.59	0.0088	0.0025
Mercury	49958-09-01 01:26 G	19968087.36	19968087.56	19968087.75	0.0088	0.0014
Mercury	49958-11-28 05:02 G	19968175.52	19968175.71	19968175.91	0.0088	0.0003
Mercury	49959-02-24 08:53 G	19968263.67	19968263.87	19968264.07	0.0088	0.0009
Mercury	49959-05-23 12:29 G	19968351.83	19968352.02	19968352.22	0.0088	0.0021
Mercury	49959-08-19 16:05 G	19968440.00	19968440.17	19968440.37	0.0089	0.0033
Mercury	49959-11-15 19:55 G	19968528.17	19968528.33	19968528.51	0.0089	0.0044
Mercury	49960-02-11 23:31 G	19968616.34	19968616.48	19968616.65	0.0089	0.0056
Mercury	49960-05-10 03:22 G	19968704.52	19968704.64	19968704.78	0.0089	0.0067
Mercury	49960-08-06 06:58 G	19968792.72	19968792.79	19968792.90	0.0089	0.0079
Earth	49972-07-12 12:43 G	19973150.96	19973151.03	19973151.16	0.0089	0.0082
Moon	49972-07-12 16:05 G	19973151.13	19973151.17	19973151.25	0.0089	0.0086 *
Moon	49973-07-14 22:19 G	19973518.25	19973518.43	19973518.66	0.0089	0.0050
Earth	49973-07-15 00:14 G	19973518.33	19973518.51	19973518.73	0.0089	0.0054 *
Earth	49974-07-17 11:46 G	19973885.75	19973885.99	19973886.24	0.0089	0.0025
Moon	49974-07-17 12:29 G	19973885.77	19973886.02	19973886.27	0.0089	0.0029 *
Earth	49975-07-19 23:02 G	19974253.20	19974253.46	19974253.72	0.0089	0.0003
Moon	49975-07-19 23:02 G	19974253.22	19974253.46	19974253.71	0.0089	0.0007 *
Moon	49976-07-21 07:55 G	19974620.60	19974620.83	19974621.10	0.0089	0.0027
Earth	49976-07-21 10:05 G	19974620.69	19974620.92	19974621.17	0.0089	0.0031 *
Earth	49977-07-23 21:07 G	19974988.21	19974988.38	19974988.59	0.0089	0.0060
Moon	49977-07-23 23:46 G	19974988.33	19974988.49	19974988.68	0.0089	0.0064 *
Moon	49978-07-26 04:48 G	19975355.64	19975355.70	19975355.83	0.0089	0.0084
Earth	49978-07-26 08:38 G	19975355.83	19975355.86	19975355.92	0.0089	0.0088 *
Venus	49995-12-26 07:55 G	19981717.79	19981717.83	19981717.89	0.0090	0.0087
Venus	49996-08-07 21:07 G	19981943.29	19981943.38	19981943.51	0.0090	0.0078
Venus	49997-03-21 10:34 G	19982168.81	19982168.94	19982169.10	0.0090	0.0068
Venus	49997-11-02 00:14 G	19982394.35	19982394.51	19982394.68	0.0090	0.0058
Venus	49998-06-15 13:26 G	19982619.89	19982620.06	19982620.26	0.0090	0.0049

Venus	49999-01-27 02:53 G	19982845.43	19982845.62	19982845.83	0.0090	0.0039
Venus	49999-09-09 16:19 G	19983070.98	19983071.18	19983071.39	0.0090	0.0029
Venus	50000-04-22 05:31 G	19983296.53	19983296.73	19983296.96	0.0090	0.0020
Venus	50000-12-03 18:58 G	19983522.08	19983522.29	19983522.52	0.0090	0.0010

# 51ST MILLENNIUM CE

This is a list of transits visible from Neptune in the 51st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	50001-07-17 08:38 G		19983747.64	19983747.86	19983748.08	0.0090	0.0000	
Venus	50002-02-27 21:50 G		19983973.20	19983973.41	19983973.63	0.0090	0.0010	
Venus	50002-10-11 11:02 G		19984198.75	19984198.96	19984199.18	0.0090	0.0020	
Venus	50003-05-25 00:14 G		19984424.32	19984424.51	19984424.73	0.0090	0.0030	
Venus	50004-01-05 13:55 G		19984649.89	19984650.08	19984650.28	0.0090	0.0039	
Venus	50004-08-18 03:07 G		19984875.46	19984875.63	19984875.83	0.0090	0.0049	
Venus	50005-03-31 16:19 G		19985101.03	19985101.18	19985101.36	0.0090	0.0059	
Venus	50005-11-12 06:14 G		19985326.61	19985326.76	19985326.90	0.0090	0.0068	
Venus	50006-06-25 19:12 G		19985552.21	19985552.30	19985552.42	0.0090	0.0078	
Venus	50007-02-06 08:24 G		19985777.83	19985777.85	19985777.92	0.0090	0.0088	
Mars	50015-11-02 01:26 G		19988968.29	19988968.56	19988968.85	0.0090	0.0042	
Mars	50017-09-27 05:31 G		19989663.55	19989663.73	19989663.93	0.0090	0.0071	
Mercury	50037-07-19 00:58 G		19996898.50	19996898.54	19996898.59	0.0089	0.0082	
Mercury	50037-10-15 01:55 G		19996986.53	19996986.58	19996986.67	0.0089	0.0075	



Mercury	50038-01-11 03:22 G	19997074.56	19997074.64	19997074.73	0.0089	0.0067
Mercury	50038-04-09 04:48 G	19997162.61	19997162.70	19997162.80	0.0089	0.0059
Mercury	50038-07-06 05:46 G	19997250.65	19997250.74	19997250.86	0.0089	0.0052
Mercury	50038-10-02 07:12 G	19997338.70	19997338.80	19997338.92	0.0089	0.0044
Mercury	50038-12-29 08:38 G	19997426.74	19997426.86	19997426.98	0.0089	0.0036
Mercury	50039-03-27 09:50 G	19997514.79	19997514.91	19997515.04	0.0089	0.0028
Mercury	50039-06-23 11:02 G	19997602.84	19997602.96	19997603.09	0.0089	0.0021
Mercury	50039-09-19 12:29 G	19997690.89	19997691.02	19997691.15	0.0089	0.0013
Mercury	50039-12-16 13:41 G	19997778.94	19997779.07	19997779.20	0.0089	0.0005
Mercury	50040-03-13 15:07 G	19997866.99	19997867.13	19997867.26	0.0089	0.0004
Mercury	50040-06-09 16:19 G	19997955.05	19997955.18	19997955.31	0.0089	0.0010
Mercury	50040-09-05 17:31 G	19998043.10	19998043.23	19998043.36	0.0089	0.0018
Mercury	50040-12-02 18:43 G	19998131.16	19998131.28	19998131.41	0.0089	0.0026
Mercury	50041-02-28 19:55 G	19998219.22	19998219.33	19998219.46	0.0089	0.0034
Mercury	50041-05-27 21:22 G	19998307.27	19998307.39	19998307.50	0.0089	0.0041
Mercury	50041-08-23 22:19 G	19998395.33	19998395.43	19998395.55	0.0089	0.0049
Mercury	50041-11-19 23:31 G	19998483.39	19998483.48	19998483.59	0.0089	0.0057
Mercury	50042-02-16 00:58 G	19998571.46	19998571.54	19998571.64	0.0089	0.0064
Mercury	50042-05-15 02:10 G	19998659.52	19998659.59	19998659.67	0.0089	0.0072
Mercury	50042-08-11 03:22 G	19998747.60	19998747.64	19998747.71	0.0089	0.0080
Mercury	50042-11-07 04:48 G	19998835.68	19998835.70	19998835.73	0.0089	0.0087
Earth	50054-01-10 23:31 G	20002918.35	20002918.48	20002918.64	0.0088	0.0073
Moon	50054-01-11 02:24 G	20002918.46	20002918.60	20002918.78	0.0088	0.0071 *
Moon	50055-01-13 09:22 G	20003285.70	20003285.89	20003286.12	0.0088	0.0047
Earth	50055-01-13 11:46 G	20003285.77	20003285.99	20003286.22	0.0088	0.0045 *
Earth	50056-01-15 23:46 G	20003653.24	20003653.49	20003653.75	0.0088	0.0017
Moon	50056-01-16 00:58 G	20003653.29	20003653.54	20003653.82	0.0088	0.0015 *
Earth	50057-01-17 11:46 G	20004020.74	20004020.99	20004021.25	0.0088	0.0011
Moon	50057-01-17 12:00 G	20004020.76	20004021.00	20004021.26	0.0088	0.0009 *
Moon	50058-01-19 22:19 G	20004388.20	20004388.43	20004388.68	0.0088	0.0041

Earth	50058-01-19 23:46 G	20004388.27	20004388.49	20004388.73	0.0088	0.0039 *
Earth	50059-01-22 11:31 G	20004755.84	20004755.98	20004756.17	0.0088	0.0068
Moon	50059-01-22 13:41 G	20004755.92	20004756.07	20004756.26	0.0088	0.0065 *
Venus	50078-02-10 19:12 G	20011715.23	20011715.30	20011715.39	0.0088	0.0081
Venus	50078-09-24 07:41 G	20011940.71	20011940.82	20011940.96	0.0088	0.0072
Venus	50079-05-07 20:24 G	20012166.20	20012166.35	20012166.51	0.0088	0.0063
Venus	50079-12-19 09:07 G	20012391.71	20012391.88	20012392.06	0.0088	0.0054
Venus	50080-07-31 21:50 G	20012617.22	20012617.41	20012617.60	0.0088	0.0045
Venus	50081-03-14 10:19 G	20012842.74	20012842.93	20012843.14	0.0088	0.0036
Venus	50081-10-25 23:02 G	20013068.25	20013068.46	20013068.67	0.0088	0.0027
Venus	50082-06-08 11:31 G	20013293.77	20013293.98	20013294.20	0.0088	0.0018
Venus	50083-01-20 00:29 G	20013519.30	20013519.52	20013519.74	0.0088	0.0009
Venus	50083-09-02 13:12 G	20013744.83	20013745.05	20013745.27	0.0088	0.0001
Venus	50084-04-15 01:41 G	20013970.36	20013970.57	20013970.79	0.0088	0.0010
Venus	50084-11-26 14:24 G	20014195.89	20014196.10	20014196.32	0.0088	0.0019
Venus	50085-07-10 03:07 G	20014421.42	20014421.63	20014421.84	0.0088	0.0028
Venus	50086-02-20 15:50 G	20014646.96	20014647.16	20014647.36	0.0088	0.0037
Venus	50086-10-04 03:50 G	20014872.50	20014872.66	20014872.87	0.0088	0.0047
Venus	50087-05-17 17:02 G	20015098.04	20015098.21	20015098.38	0.0088	0.0055
Venus	50087-12-29 05:17 G	20015323.59	20015323.72	20015323.89	0.0088	0.0065
Venus	50088-08-10 18:29 G	20015549.15	20015549.27	20015549.39	0.0088	0.0073
Venus	50089-03-24 06:43 G	20015774.72	20015774.78	20015774.87	0.0088	0.0082
Mars	50099-06-07 06:58 G	20019501.48	20019501.79	20019502.10	0.0088	0.0007
Mercury	50121-12-16 23:17 G	20027729.42	20027729.47	20027729.56	0.0088	0.0082
Mercury	50122-03-15 03:22 G	20027817.53	20027817.64	20027817.77	0.0088	0.0071
Mercury	50122-06-11 06:58 G	20027905.66	20027905.79	20027905.95	0.0088	0.0059
Mercury	50122-09-07 10:48 G	20027993.79	20027993.95	20027994.12	0.0088	0.0048
Mercury	50122-12-04 14:24 G	20028081.93	20028082.10	20028082.29	0.0088	0.0037
Mercury	50123-03-02 18:29 G	20028170.08	20028170.27	20028170.46	0.0088	0.0025
Mercury	50123-05-29 22:05 G	20028258.23	20028258.42	20028258.62	0.0088	0.0013

Mercury	50123-08-26 01:55 G	20028346.38	20028346.58	20028346.78	0.0088	0.0002
Mercury	50123-11-22 05:31 G	20028434.54	20028434.73	20028434.93	0.0088	0.0010
Mercury	50124-02-18 09:07 G	20028522.70	20028522.88	20028523.08	0.0088	0.0022
Mercury	50124-05-16 12:58 G	20028610.86	20028611.04	20028611.23	0.0088	0.0033
Mercury	50124-08-12 16:34 G	20028699.03	20028699.19	20028699.37	0.0088	0.0045
Mercury	50124-11-08 20:24 G	20028787.20	20028787.35	20028787.51	0.0088	0.0056
Mercury	50125-02-05 00:00 G	20028875.39	20028875.50	20028875.64	0.0088	0.0068
Mercury	50125-05-04 03:50 G	20028963.58	20028963.66	20028963.76	0.0089	0.0079
Jupiter	50135-08-03 13:41 G	20032706.72	20032707.07	20032707.52	0.0089	0.0060
Moon	50137-07-15 05:02 G	20033418.57	20033418.71	20033418.91	0.0089	0.0068
Earth	50137-07-15 05:46 G	20033418.59	20033418.74	20033418.90	0.0089	0.0070 *
Earth	50138-07-17 16:48 G	20033785.99	20033786.20	20033786.44	0.0089	0.0042
Moon	50138-07-17 18:14 G	20033786.06	20033786.26	20033786.49	0.0089	0.0045 *
Moon	50139-07-20 01:55 G	20034153.33	20034153.58	20034153.85	0.0089	0.0012
Earth	50139-07-20 04:05 G	20034153.43	20034153.67	20034153.93	0.0089	0.0014 *
Earth	50140-07-21 15:22 G	20034520.89	20034521.14	20034521.40	0.0089	0.0015
Moon	50140-07-21 18:43 G	20034521.03	20034521.28	20034521.53	0.0089	0.0012 *
Moon	50141-07-23 23:02 G	20034888.25	20034888.46	20034888.69	0.0089	0.0046
Earth	50141-07-24 02:24 G	20034888.39	20034888.60	20034888.84	0.0089	0.0043 *
Earth	50142-07-26 13:12 G	20035255.93	20035256.05	20035256.23	0.0089	0.0072
Moon	50142-07-26 17:17 G	20035256.07	20035256.22	20035256.38	0.0089	0.0070 *
Venus	50160-03-29 14:53 G	20041712.12	20041712.12	20041712.13	0.0090	0.0090
Venus	50160-11-10 04:19 G	20041937.59	20041937.68	20041937.78	0.0090	0.0080
Venus	50161-06-23 17:31 G	20042163.12	20042163.23	20042163.38	0.0090	0.0071
Venus	50162-02-04 07:12 G	20042388.65	20042388.80	20042388.97	0.0090	0.0061
Venus	50162-09-17 20:24 G	20042614.19	20042614.35	20042614.54	0.0090	0.0052
Venus	50163-05-01 09:50 G	20042839.73	20042839.91	20042840.12	0.0090	0.0042
Venus	50163-12-12 23:17 G	20043065.28	20043065.47	20043065.69	0.0090	0.0033
Venus	50164-07-25 12:58 G	20043290.83	20043291.04	20043291.26	0.0090	0.0023
Venus	50165-03-08 02:24 G	20043516.38	20043516.60	20043516.82	0.0090	0.0013

Venus	50165-10-19 15:36 G	20043741.94	20043742.15	20043742.38	0.0090	0.0004
Venus	50166-06-02 05:02 G	20043967.50	20043967.71	20043967.93	0.0090	0.0007
Venus	50167-01-13 18:29 G	20044193.06	20044193.27	20044193.49	0.0090	0.0016
Venus	50167-08-27 07:41 G	20044418.62	20044418.82	20044419.04	0.0090	0.0026
Venus	50168-04-08 20:53 G	20044644.18	20044644.37	20044644.59	0.0090	0.0036
Venus	50168-11-20 10:34 G	20044869.75	20044869.94	20044870.13	0.0090	0.0045
Venus	50169-07-03 23:46 G	20045095.33	20045095.49	20045095.68	0.0090	0.0055
Venus	50170-02-14 12:58 G	20045320.91	20045321.04	20045321.21	0.0090	0.0065
Venus	50170-09-28 02:24 G	20045546.49	20045546.60	20045546.74	0.0090	0.0074
Venus	50171-05-11 15:22 G	20045772.09	20045772.14	20045772.25	0.0090	0.0084
Mars	50181-05-12 04:05 G	20049425.38	20049425.67	20049425.99	0.0090	0.0023
Mercury	50202-04-17 00:00 G	20057069.45	20057069.50	20057069.55	0.0089	0.0082
Mercury	50202-07-14 01:12 G	20057157.49	20057157.55	20057157.63	0.0089	0.0074
Mercury	50202-10-10 02:24 G	20057245.52	20057245.60	20057245.69	0.0089	0.0067
Mercury	50203-01-06 03:36 G	20057333.57	20057333.65	20057333.76	0.0089	0.0059
Mercury	50203-04-04 05:02 G	20057421.61	20057421.71	20057421.82	0.0089	0.0051
Mercury	50203-07-01 06:29 G	20057509.66	20057509.77	20057509.88	0.0089	0.0043
Mercury	50203-09-27 07:26 G	20057597.70	20057597.81	20057597.94	0.0089	0.0036
Mercury	50203-12-24 08:53 G	20057685.75	20057685.87	20057686.00	0.0089	0.0028
Mercury	50204-03-21 10:19 G	20057773.80	20057773.93	20057774.06	0.0089	0.0020
Mercury	50204-06-17 11:31 G	20057861.85	20057861.98	20057862.11	0.0089	0.0012
Mercury	50204-09-13 12:43 G	20057949.90	20057950.03	20057950.16	0.0089	0.0005
Mercury	50204-12-10 14:10 G	20058037.96	20058038.09	20058038.22	0.0089	0.0004
Mercury	50205-03-08 15:22 G	20058126.01	20058126.14	20058126.27	0.0089	0.0011
Mercury	50205-06-04 16:34 G	20058214.06	20058214.19	20058214.32	0.0089	0.0019
Mercury	50205-08-31 17:46 G	20058302.12	20058302.24	20058302.37	0.0089	0.0027
Mercury	50205-11-27 19:12 G	20058390.18	20058390.30	20058390.42	0.0089	0.0034
Mercury	50206-02-23 20:10 G	20058478.24	20058478.34	20058478.47	0.0089	0.0042
Mercury	50206-05-22 21:22 G	20058566.30	20058566.39	20058566.51	0.0089	0.0050
Mercury	50206-08-18 22:48 G	20058654.36	20058654.45	20058654.56	0.0089	0.0057

Mercury	50206-11-15 00:00 G	20058742.42	20058742.50	20058742.60	0.0089	0.0065
Mercury	50207-02-11 01:12 G	20058830.49	20058830.55	20058830.64	0.0089	0.0073
Mercury	50207-05-10 02:38 G	20058918.56	20058918.61	20058918.67	0.0089	0.0080
Mercury	50207-08-06 03:50 G	20059006.65	20059006.66	20059006.68	0.0089	0.0088
Moon	50218-01-12 02:38 G	20062818.56	20062818.61	20062818.69	0.0088	0.0085
Earth	50219-01-14 15:50 G	20063186.00	20063186.16	20063186.37	0.0088	0.0061
Moon	50219-01-14 15:36 G	20063186.00	20063186.15	20063186.37	0.0088	0.0066 *
Earth	50220-01-17 03:50 G	20063553.44	20063553.66	20063553.92	0.0088	0.0034
Moon	50220-01-17 04:48 G	20063553.47	20063553.70	20063553.95	0.0088	0.0029 *
Moon	50221-01-18 13:55 G	20063920.82	20063921.08	20063921.36	0.0088	0.0010
Earth	50221-01-18 16:19 G	20063920.92	20063921.18	20063921.44	0.0088	0.0005 *
Earth	50222-01-21 04:05 G	20064288.43	20064288.67	20064288.93	0.0088	0.0023
Moon	50222-01-21 07:12 G	20064288.56	20064288.80	20064289.05	0.0088	0.0028 *
Moon	50223-01-23 12:43 G	20064655.82	20064656.03	20064656.26	0.0088	0.0047
Earth	50223-01-23 16:05 G	20064655.97	20064656.17	20064656.39	0.0088	0.0051 *
Earth	50224-01-26 03:36 G	20065023.56	20065023.65	20065023.79	0.0088	0.0079
Moon	50224-01-26 07:26 G	20065023.75	20065023.81	20065023.92	0.0088	0.0084 *
Venus	50242-05-17 03:50 G	20071709.61	20071709.66	20071709.75	0.0088	0.0083
Venus	50242-12-28 16:48 G	20071935.10	20071935.20	20071935.33	0.0088	0.0074
Venus	50243-08-11 05:31 G	20072160.59	20072160.73	20072160.89	0.0088	0.0065
Venus	50244-03-23 18:00 G	20072386.09	20072386.25	20072386.43	0.0088	0.0056
Venus	50244-11-04 06:43 G	20072611.60	20072611.78	20072611.97	0.0088	0.0047
Venus	50245-06-17 19:26 G	20072837.11	20072837.31	20072837.51	0.0088	0.0038
Venus	50246-01-29 08:10 G	20073062.63	20073062.84	20073063.05	0.0088	0.0029
Venus	50246-09-11 20:38 G	20073288.15	20073288.36	20073288.58	0.0088	0.0020
Venus	50247-04-25 09:22 G	20073513.67	20073513.89	20073514.11	0.0088	0.0011
Venus	50247-12-06 22:05 G	20073739.20	20073739.42	20073739.64	0.0088	0.0002
Venus	50248-07-19 10:34 G	20073964.73	20073964.94	20073965.17	0.0088	0.0008
Venus	50249-03-01 23:02 G	20074190.26	20074190.46	20074190.69	0.0088	0.0017
Venus	50249-10-13 11:46 G	20074415.79	20074415.99	20074416.21	0.0088	0.0025

Venus	50250-05-27 00:14 G	20074641.32	20074641.51	20074641.73	0.0088	0.0035
Venus	50251-01-07 12:58 G	20074866.87	20074867.04	20074867.25	0.0088	0.0044
Venus	50251-08-21 01:41 G	20075092.41	20075092.57	20075092.76	0.0088	0.0053
Venus	50252-04-02 14:10 G	20075317.96	20075318.09	20075318.27	0.0088	0.0062
Venus	50252-11-14 03:07 G	20075543.51	20075543.63	20075543.77	0.0088	0.0070
Venus	50253-06-27 15:36 G	20075769.07	20075769.15	20075769.26	0.0088	0.0079
Mars	50263-01-21 23:31 G	20079264.21	20079264.48	20079264.77	0.0088	0.0035
Mars	50264-12-16 08:53 G	20079958.70	20079958.87	20079959.08	0.0088	0.0069
Mercury	50286-09-13 20:38 G	20087900.29	20087900.36	20087900.45	0.0088	0.0081
Mercury	50286-12-11 00:14 G	20087988.40	20087988.51	20087988.65	0.0088	0.0069
Mercury	50287-03-09 04:19 G	20088076.53	20088076.68	20088076.83	0.0088	0.0058
Mercury	50287-06-05 07:41 G	20088164.67	20088164.82	20088165.00	0.0088	0.0047
Mercury	50287-09-01 11:17 G	20088252.81	20088252.97	20088253.17	0.0088	0.0036
Mercury	50287-11-28 15:22 G	20088340.95	20088341.14	20088341.33	0.0088	0.0024
Mercury	50288-02-24 18:58 G	20088429.10	20088429.29	20088429.49	0.0088	0.0013
Mercury	50288-05-22 22:48 G	20088517.26	20088517.45	20088517.65	0.0088	0.0002
Mercury	50288-08-19 02:24 G	20088605.41	20088605.60	20088605.81	0.0088	0.0012
Mercury	50288-11-15 06:14 G	20088693.57	20088693.76	20088693.96	0.0088	0.0022
Mercury	50289-02-11 10:05 G	20088781.74	20088781.92	20088782.10	0.0088	0.0034
Mercury	50289-05-10 13:26 G	20088869.91	20088870.06	20088870.24	0.0088	0.0046
Mercury	50289-08-06 17:02 G	20088958.08	20088958.21	20088958.38	0.0088	0.0058
Mercury	50289-11-02 20:53 G	20089046.26	20089046.37	20089046.51	0.0088	0.0069
Mercury	50290-01-30 00:29 G	20089134.46	20089134.52	20089134.62	0.0088	0.0081
Earth	50301-07-16 10:34 G	20093318.91	20093318.94	20093319.01	0.0089	0.0087
Jupiter	50301-09-29 04:05 G	20093393.29	20093393.67	20093394.11	0.0089	0.0057
Moon	50302-07-18 18:58 G	20093686.10	20093686.29	20093686.50	0.0089	0.0056
Earth	50302-07-18 21:50 G	20093686.24	20093686.41	20093686.63	0.0089	0.0059 *
Earth	50303-07-21 09:36 G	20094053.66	20094053.90	20094054.14	0.0089	0.0030
Moon	50303-07-21 12:29 G	20094053.80	20094054.02	20094054.27	0.0089	0.0034 *
Moon	50304-07-22 17:17 G	20094420.97	20094421.22	20094421.48	0.0089	0.0002

Earth	50304-07-22 21:07 G	20094421.12	20094421.38	20094421.64	0.0089	0.0002	*
Earth	50305-07-25 07:55 G	20094788.60	20094788.83	20094789.08	0.0089	0.0027	
Moon	50305-07-25 11:02 G	20094788.72	20094788.96	20094789.22	0.0089	0.0023	*
Moon	50306-07-27 16:48 G	20095156.02	20095156.20	20095156.40	0.0089	0.0058	
Earth	50306-07-27 18:58 G	20095156.11	20095156.29	20095156.51	0.0089	0.0055	*
Earth	50307-07-30 06:14 G	20095523.69	20095523.76	20095523.87	0.0089	0.0083	
Moon	50307-07-30 07:55 G	20095523.73	20095523.83	20095523.97	0.0089	0.0079	*
Venus	50325-02-13 11:31 G	20101931.91	20101931.98	20101932.08	0.0090	0.0083	
Venus	50325-09-27 00:43 G	20102157.43	20102157.53	20102157.68	0.0090	0.0074	
Venus	50326-05-10 14:10 G	20102382.96	20102383.09	20102383.26	0.0090	0.0064	
Venus	50326-12-22 03:36 G	20102608.49	20102608.65	20102608.84	0.0090	0.0055	
Venus	50327-08-04 17:17 G	20102834.04	20102834.22	20102834.42	0.0090	0.0045	
Venus	50328-03-17 06:58 G	20103059.59	20103059.79	20103059.99	0.0090	0.0035	
Venus	50328-10-28 20:10 G	20103285.14	20103285.34	20103285.56	0.0090	0.0026	
Venus	50329-06-11 09:50 G	20103510.69	20103510.91	20103511.12	0.0090	0.0016	
Venus	50330-01-22 23:02 G	20103736.25	20103736.46	20103736.68	0.0090	0.0007	
Venus	50330-09-05 12:29 G	20103961.80	20103962.02	20103962.24	0.0090	0.0003	
Venus	50331-04-19 01:41 G	20104187.36	20104187.57	20104187.79	0.0090	0.0013	
Venus	50331-11-30 14:53 G	20104412.92	20104413.12	20104413.35	0.0090	0.0023	
Venus	50332-07-13 04:34 G	20104638.49	20104638.69	20104638.90	0.0090	0.0032	
Venus	50333-02-23 17:46 G	20104864.06	20104864.24	20104864.45	0.0090	0.0042	
Venus	50333-10-07 07:12 G	20105089.62	20105089.80	20105089.99	0.0090	0.0051	
Venus	50334-05-20 20:10 G	20105315.20	20105315.34	20105315.52	0.0090	0.0061	
Venus	50335-01-01 09:36 G	20105540.78	20105540.90	20105541.05	0.0090	0.0070	
Venus	50335-08-14 22:48 G	20105766.38	20105766.45	20105766.58	0.0090	0.0080	
Venus	50336-03-27 12:29 G	20105992.01	20105992.02	20105992.06	0.0090	0.0089	
Mars	50344-12-26 02:38 G	20109187.30	20109187.61	20109187.92	0.0090	0.0025	
Mars	50346-11-21 07:41 G	20109882.79	20109882.82	20109882.85	0.0090	0.0089	
Mercury	50367-01-12 22:48 G	20117240.41	20117240.45	20117240.51	0.0089	0.0082	
Mercury	50367-04-11 00:14 G	20117328.44	20117328.51	20117328.59	0.0089	0.0074	

Mercury	50367-07-08 01:26 G	20117416.48	20117416.56	20117416.66	0.0089	0.0066
Mercury	50367-10-04 02:53 G	20117504.52	20117504.62	20117504.72	0.0089	0.0058
Mercury	50367-12-31 04:05 G	20117592.57	20117592.67	20117592.78	0.0089	0.0051
Mercury	50368-03-28 05:17 G	20117680.61	20117680.72	20117680.84	0.0089	0.0043
Mercury	50368-06-24 06:43 G	20117768.66	20117768.78	20117768.90	0.0089	0.0035
Mercury	50368-09-20 07:55 G	20117856.71	20117856.83	20117856.96	0.0089	0.0028
Mercury	50368-12-17 09:07 G	20117944.76	20117944.88	20117945.02	0.0089	0.0020
Mercury	50369-03-15 10:34 G	20118032.81	20118032.94	20118033.07	0.0089	0.0012
Mercury	50369-06-11 11:46 G	20118120.86	20118120.99	20118121.13	0.0089	0.0005
Mercury	50369-09-07 13:12 G	20118208.92	20118209.05	20118209.18	0.0089	0.0004
Mercury	50369-12-04 14:24 G	20118296.97	20118297.10	20118297.23	0.0089	0.0011
Mercury	50370-03-02 15:36 G	20118385.02	20118385.15	20118385.28	0.0089	0.0019
Mercury	50370-05-29 16:48 G	20118473.08	20118473.20	20118473.33	0.0089	0.0027
Mercury	50370-08-25 18:00 G	20118561.14	20118561.25	20118561.38	0.0089	0.0035
Mercury	50370-11-21 19:26 G	20118649.20	20118649.31	20118649.43	0.0089	0.0042
Mercury	50371-02-17 20:38 G	20118737.26	20118737.36	20118737.47	0.0089	0.0050
Mercury	50371-05-16 21:50 G	20118825.32	20118825.41	20118825.52	0.0089	0.0058
Mercury	50371-08-12 23:17 G	20118913.38	20118913.47	20118913.56	0.0089	0.0065
Mercury	50371-11-09 00:29 G	20119001.45	20119001.52	20119001.60	0.0089	0.0073
Mercury	50372-02-05 01:26 G	20119089.52	20119089.56	20119089.63	0.0089	0.0081
Mercury	50372-05-03 02:53 G	20119177.62	20119177.62	20119177.64	0.0089	0.0088
Earth	50383-01-14 20:38 G	20123086.26	20123086.36	20123086.51	0.0088	0.0077
Moon	50383-01-14 22:48 G	20123086.35	20123086.45	20123086.59	0.0088	0.0078 *
Moon	50384-01-17 06:00 G	20123453.55	20123453.75	20123453.99	0.0088	0.0050
Earth	50384-01-17 08:38 G	20123453.67	20123453.86	20123454.10	0.0088	0.0050 *
Earth	50385-01-18 20:53 G	20123821.13	20123821.37	20123821.64	0.0088	0.0021
Moon	50385-01-19 00:29 G	20123821.28	20123821.52	20123821.78	0.0088	0.0020 *
Moon	50386-01-21 05:31 G	20124188.48	20124188.73	20124189.00	0.0088	0.0007
Earth	50386-01-21 09:22 G	20124188.63	20124188.89	20124189.15	0.0088	0.0007 *
Earth	50387-01-23 20:53 G	20124556.14	20124556.37	20124556.62	0.0088	0.0035



Moon	50387-01-24 00:00 G	20124556.28	20124556.50	20124556.76	0.0088	0.0037 *
Moon	50388-01-26 05:46 G	20124923.58	20124923.74	20124923.94	0.0088	0.0062
Earth	50388-01-26 08:53 G	20124923.71	20124923.87	20124924.06	0.0088	0.0064 *
Venus	50406-08-19 12:43 G	20131704.00	20131704.03	20131704.11	0.0088	0.0085
Venus	50407-04-02 01:26 G	20131929.47	20131929.56	20131929.69	0.0088	0.0076
Venus	50407-11-13 14:10 G	20132154.97	20132155.09	20132155.25	0.0088	0.0067
Venus	50408-06-26 02:53 G	20132380.47	20132380.62	20132380.80	0.0088	0.0058
Venus	50409-02-06 15:36 G	20132605.98	20132606.15	20132606.34	0.0088	0.0049
Venus	50409-09-20 04:19 G	20132831.49	20132831.68	20132831.88	0.0088	0.0040
Venus	50410-05-03 16:48 G	20133057.01	20133057.20	20133057.42	0.0088	0.0032
Venus	50410-12-15 05:31 G	20133282.53	20133282.73	20133282.96	0.0088	0.0023
Venus	50411-07-28 18:14 G	20133508.05	20133508.26	20133508.49	0.0088	0.0014
Venus	50412-03-10 06:58 G	20133733.57	20133733.79	20133734.01	0.0088	0.0004
Venus	50412-10-21 19:41 G	20133959.10	20133959.32	20133959.54	0.0088	0.0005
Venus	50413-06-04 08:10 G	20134184.62	20134184.84	20134185.06	0.0088	0.0014
Venus	50414-01-15 20:53 G	20134410.16	20134410.37	20134410.59	0.0088	0.0023
Venus	50414-08-29 09:22 G	20134635.70	20134635.89	20134636.11	0.0088	0.0032
Venus	50415-04-11 22:05 G	20134861.23	20134861.42	20134861.63	0.0088	0.0041
Venus	50415-11-23 10:34 G	20135086.78	20135086.94	20135087.14	0.0088	0.0050
Venus	50416-07-05 23:02 G	20135312.32	20135312.46	20135312.65	0.0088	0.0059
Venus	50417-02-16 11:46 G	20135537.88	20135537.99	20135538.16	0.0088	0.0068
Venus	50417-09-30 00:58 G	20135763.44	20135763.54	20135763.65	0.0088	0.0076
Venus	50418-05-13 13:26 G	20135989.02	20135989.06	20135989.12	0.0088	0.0085
Mars	50426-09-06 18:43 G	20139027.14	20139027.28	20139027.44	0.0088	0.0076
Mars	50428-08-01 02:24 G	20139721.32	20139721.60	20139721.91	0.0088	0.0028
Mercury	50451-06-11 18:00 G	20148071.17	20148071.25	20148071.35	0.0088	0.0079
Mercury	50451-09-07 21:36 G	20148159.29	20148159.40	20148159.54	0.0088	0.0067
Mercury	50451-12-05 01:12 G	20148247.41	20148247.55	20148247.72	0.0088	0.0056
Mercury	50452-03-02 05:02 G	20148335.55	20148335.71	20148335.89	0.0088	0.0045
Mercury	50452-05-29 08:38 G	20148423.69	20148423.86	20148424.06	0.0088	0.0034

Mercury	50452-08-25 12:43 G	20148511.84	20148512.03	20148512.22	0.0088	0.0022
Mercury	50452-11-21 16:19 G	20148599.99	20148600.18	20148600.38	0.0088	0.0010
Mercury	50453-02-17 20:10 G	20148688.14	20148688.34	20148688.54	0.0088	0.0001
Mercury	50453-05-16 23:46 G	20148776.30	20148776.49	20148776.69	0.0088	0.0013
Mercury	50453-08-13 03:22 G	20148864.46	20148864.64	20148864.84	0.0088	0.0025
Mercury	50453-11-09 07:12 G	20148952.62	20148952.80	20148952.99	0.0088	0.0036
Mercury	50454-02-05 10:48 G	20149040.79	20149040.95	20149041.13	0.0088	0.0048
Mercury	50454-05-04 14:38 G	20149128.97	20149129.11	20149129.26	0.0088	0.0059
Mercury	50454-07-31 18:14 G	20149217.15	20149217.26	20149217.39	0.0088	0.0071
Mercury	50454-10-27 22:19 G	20149305.36	20149305.43	20149305.50	0.0088	0.0082
Earth	50466-07-18 04:19 G	20153586.56	20153586.68	20153586.83	0.0089	0.0075
Moon	50466-07-18 07:55 G	20153586.70	20153586.83	20153587.00	0.0089	0.0071 *
Moon	50467-07-20 12:58 G	20153953.83	20153954.04	20153954.24	0.0089	0.0050
Earth	50467-07-20 15:36 G	20153953.95	20153954.15	20153954.39	0.0089	0.0047 *
Earth	50468-07-22 03:07 G	20154321.38	20154321.63	20154321.88	0.0089	0.0018
Moon	50468-07-22 06:14 G	20154321.51	20154321.76	20154322.02	0.0089	0.0015 *
Moon	50469-07-24 12:58 G	20154688.79	20154689.04	20154689.29	0.0089	0.0006
Earth	50469-07-24 14:24 G	20154688.85	20154689.10	20154689.36	0.0089	0.0011 *
Earth	50470-07-27 01:55 G	20155056.35	20155056.58	20155056.81	0.0089	0.0039
Moon	50470-07-27 01:55 G	20155056.37	20155056.58	20155056.84	0.0089	0.0042 *
Earth	50471-07-29 12:29 G	20155423.88	20155424.02	20155424.21	0.0089	0.0068
Moon	50471-07-29 12:43 G	20155423.88	20155424.03	20155424.22	0.0089	0.0065 *
Venus	50489-05-17 19:26 G	20161926.26	20161926.31	20161926.39	0.0090	0.0085
Venus	50489-12-29 08:38 G	20162151.77	20162151.86	20162152.00	0.0090	0.0076
Venus	50490-08-11 22:34 G	20162377.29	20162377.44	20162377.59	0.0090	0.0066
Venus	50491-03-25 11:31 G	20162602.83	20162602.98	20162603.17	0.0090	0.0057
Venus	50491-11-06 00:58 G	20162828.37	20162828.54	20162828.74	0.0090	0.0048
Venus	50492-06-18 14:38 G	20163053.92	20163054.11	20163054.32	0.0090	0.0038
Venus	50493-01-30 03:50 G	20163279.47	20163279.66	20163279.88	0.0090	0.0029
Venus	50493-09-12 17:31 G	20163505.02	20163505.23	20163505.45	0.0090	0.0019

Venus	50494-04-26 06:58 G	20163730.57	20163730.79	20163731.01	0.0090	0.0009
Venus	50494-12-07 20:24 G	20163956.13	20163956.35	20163956.57	0.0090	0.0001
Venus	50495-07-21 09:50 G	20164181.70	20164181.91	20164182.13	0.0090	0.0010
Venus	50496-03-02 23:02 G	20164407.26	20164407.46	20164407.69	0.0090	0.0020
Venus	50496-10-14 12:29 G	20164632.82	20164633.02	20164633.24	0.0090	0.0029
Venus	50497-05-28 01:41 G	20164858.39	20164858.57	20164858.78	0.0090	0.0039
Venus	50498-01-08 15:07 G	20165083.96	20165084.13	20165084.33	0.0090	0.0048
Venus	50498-08-22 04:19 G	20165309.53	20165309.68	20165309.87	0.0090	0.0058
Venus	50499-04-04 17:46 G	20165535.11	20165535.24	20165535.40	0.0090	0.0067
Venus	50499-11-16 07:12 G	20165760.70	20165760.80	20165760.93	0.0090	0.0076
Venus	50500-06-29 20:53 G	20165986.30	20165986.37	20165986.44	0.0090	0.0085
Mars	50508-08-09 23:46 G	20168949.35	20168949.49	20168949.70	0.0090	0.0075
Mars	50510-07-06 07:41 G	20169644.56	20169644.82	20169645.13	0.0090	0.0043
Mercury	50531-07-14 20:53 G	20177323.37	20177323.37	20177323.38	0.0089	0.0089
Mercury	50531-10-10 22:05 G	20177411.37	20177411.42	20177411.48	0.0089	0.0081
Mercury	50532-01-06 23:17 G	20177499.41	20177499.47	20177499.55	0.0089	0.0073
Mercury	50532-04-04 00:43 G	20177587.44	20177587.53	20177587.62	0.0089	0.0065
Mercury	50532-07-01 01:55 G	20177675.49	20177675.58	20177675.69	0.0089	0.0058
Mercury	50532-09-27 03:07 G	20177763.53	20177763.63	20177763.75	0.0089	0.0050
Mercury	50532-12-24 04:34 G	20177851.58	20177851.69	20177851.81	0.0089	0.0042
Mercury	50533-03-22 06:00 G	20177939.63	20177939.75	20177939.87	0.0089	0.0034
Mercury	50533-06-18 07:12 G	20178027.68	20178027.80	20178027.93	0.0089	0.0026
Mercury	50533-09-14 08:24 G	20178115.73	20178115.85	20178115.98	0.0089	0.0019
Mercury	50533-12-11 09:50 G	20178203.78	20178203.91	20178204.04	0.0089	0.0011
Mercury	50534-03-09 11:02 G	20178291.83	20178291.96	20178292.09	0.0089	0.0003
Mercury	50534-06-05 12:14 G	20178379.88	20178380.01	20178380.14	0.0089	0.0005
Mercury	50534-09-01 13:26 G	20178467.94	20178468.06	20178468.20	0.0089	0.0013
Mercury	50534-11-28 14:53 G	20178555.99	20178556.12	20178556.25	0.0089	0.0020
Mercury	50535-02-24 16:05 G	20178644.05	20178644.17	20178644.30	0.0089	0.0028
Mercury	50535-05-23 17:17 G	20178732.11	20178732.22	20178732.35	0.0089	0.0036

Mercury	50535-08-19 18:43 G	20178820.17	20178820.28	20178820.39	0.0089	0.0043
Mercury	50535-11-15 19:55 G	20178908.23	20178908.33	20178908.44	0.0089	0.0051
Mercury	50536-02-11 21:07 G	20178996.29	20178996.38	20178996.48	0.0089	0.0059
Mercury	50536-05-09 22:34 G	20179084.35	20179084.44	20179084.52	0.0089	0.0066
Mercury	50536-08-05 23:31 G	20179172.42	20179172.48	20179172.56	0.0089	0.0074
Mercury	50536-11-02 00:43 G	20179260.49	20179260.53	20179260.59	0.0089	0.0082
Earth	50548-01-17 13:41 G	20183353.92	20183354.07	20183354.27	0.0088	0.0066
Moon	50548-01-17 17:17 G	20183354.08	20183354.22	20183354.39	0.0088	0.0070 *
Moon	50549-01-18 22:34 G	20183721.21	20183721.44	20183721.69	0.0088	0.0033
Earth	50549-01-19 01:55 G	20183721.36	20183721.58	20183721.84	0.0088	0.0038 *
Earth	50550-01-21 14:10 G	20184088.83	20184089.09	20184089.35	0.0088	0.0009
Moon	50550-01-21 17:17 G	20184088.96	20184089.22	20184089.48	0.0088	0.0013 *
Moon	50551-01-24 00:14 G	20184456.27	20184456.51	20184456.76	0.0088	0.0024
Earth	50551-01-24 02:10 G	20184456.34	20184456.59	20184456.85	0.0088	0.0019 *
Earth	50552-01-26 14:10 G	20184823.88	20184824.09	20184824.31	0.0088	0.0048
Moon	50552-01-26 15:22 G	20184823.92	20184824.14	20184824.39	0.0088	0.0043 *
Earth	50553-01-28 02:10 G	20185191.46	20185191.59	20185191.73	0.0088	0.0076
Moon	50553-01-28 02:24 G	20185191.51	20185191.60	20185191.71	0.0088	0.0080 *
Venus	50570-11-21 22:05 G	20191698.40	20191698.42	20191698.48	0.0088	0.0086
Venus	50571-07-05 11:02 G	20191923.87	20191923.96	20191924.07	0.0088	0.0077
Venus	50572-02-16 00:00 G	20192149.36	20192149.50	20192149.63	0.0088	0.0068
Venus	50572-09-28 12:00 G	20192374.86	20192375.00	20192375.19	0.0088	0.0060
Venus	50573-05-12 00:58 G	20192600.37	20192600.54	20192600.73	0.0088	0.0051
Venus	50573-12-23 13:41 G	20192825.89	20192826.07	20192826.28	0.0088	0.0042
Venus	50574-08-06 02:38 G	20193051.41	20193051.61	20193051.81	0.0088	0.0033
Venus	50575-03-19 14:53 G	20193276.92	20193277.12	20193277.35	0.0088	0.0025
Venus	50575-10-31 03:36 G	20193502.44	20193502.65	20193502.87	0.0088	0.0016
Venus	50576-06-12 16:19 G	20193727.96	20193728.18	20193728.40	0.0088	0.0007
Venus	50577-01-24 05:02 G	20193953.49	20193953.71	20193953.93	0.0088	0.0003
Venus	50577-09-06 17:31 G	20194179.02	20194179.23	20194179.46	0.0088	0.0012

Venus	50578-04-20 06:14 G	20194404.55	20194404.76	20194404.98	0.0088	0.0020
Venus	50578-12-01 18:58 G	20194630.08	20194630.29	20194630.50	0.0088	0.0029
Venus	50579-07-15 07:26 G	20194855.62	20194855.81	20194856.01	0.0088	0.0038
Venus	50580-02-25 19:55 G	20195081.16	20195081.33	20195081.53	0.0088	0.0047
Venus	50580-10-08 08:24 G	20195306.70	20195306.85	20195307.04	0.0088	0.0056
Venus	50581-05-21 20:53 G	20195532.25	20195532.37	20195532.55	0.0088	0.0065
Venus	50582-01-02 10:19 G	20195757.81	20195757.93	20195758.05	0.0088	0.0073
Venus	50582-08-15 22:34 G	20195983.38	20195983.44	20195983.53	0.0088	0.0082
Mars	50592-03-16 23:02 G	20199484.16	20199484.46	20199484.77	0.0088	0.0014
Mercury	50615-12-12 11:46 G	20208153.98	20208153.99	20208154.03	0.0088	0.0088
Mercury	50616-03-09 15:22 G	20208242.06	20208242.14	20208242.26	0.0088	0.0076
Mercury	50616-06-05 19:12 G	20208330.18	20208330.30	20208330.44	0.0088	0.0065
Mercury	50616-09-01 22:48 G	20208418.31	20208418.45	20208418.62	0.0088	0.0054
Mercury	50616-11-29 02:24 G	20208506.44	20208506.60	20208506.79	0.0088	0.0043
Mercury	50617-02-25 06:29 G	20208594.59	20208594.77	20208594.96	0.0088	0.0031
Mercury	50617-05-24 10:05 G	20208682.73	20208682.92	20208683.12	0.0088	0.0019
Mercury	50617-08-20 13:55 G	20208770.88	20208771.08	20208771.28	0.0088	0.0008
Mercury	50617-11-16 17:31 G	20208859.04	20208859.23	20208859.43	0.0088	0.0004
Mercury	50618-02-12 21:07 G	20208947.19	20208947.38	20208947.58	0.0088	0.0016
Mercury	50618-05-12 00:58 G	20209035.35	20209035.54	20209035.73	0.0088	0.0027
Mercury	50618-08-08 04:19 G	20209123.52	20209123.68	20209123.88	0.0088	0.0039
Mercury	50618-11-04 08:24 G	20209211.69	20209211.85	20209212.02	0.0088	0.0050
Mercury	50619-01-31 11:46 G	20209299.87	20209299.99	20209300.15	0.0088	0.0062
Mercury	50619-04-29 15:50 G	20209388.05	20209388.16	20209388.28	0.0088	0.0073
Mercury	50619-07-26 19:12 G	20209476.26	20209476.30	20209476.38	0.0088	0.0085
Earth	50631-07-21 22:19 G	20213854.28	20213854.43	20213854.64	0.0089	0.0063
Moon	50631-07-22 00:29 G	20213854.36	20213854.52	20213854.74	0.0089	0.0061 *
Moon	50632-07-23 08:53 G	20214221.65	20214221.87	20214222.10	0.0089	0.0036
Earth	50632-07-23 10:05 G	20214221.70	20214221.92	20214222.17	0.0089	0.0034 *
Moon	50633-07-25 21:22 G	20214589.13	20214589.39	20214589.66	0.0089	0.0004

Earth	50633-07-25 21:36 G	20214589.15	20214589.40	20214589.66	0.0089	0.0006	*
Earth	50634-07-28 08:38 G	20214956.63	20214956.86	20214957.12	0.0089	0.0023	
Moon	50634-07-28 10:05 G	20214956.70	20214956.92	20214957.18	0.0089	0.0022	*
Moon	50635-07-30 17:31 G	20215324.05	20215324.23	20215324.47	0.0089	0.0054	
Earth	50635-07-30 20:24 G	20215324.14	20215324.35	20215324.56	0.0089	0.0051	*
Earth	50636-08-01 06:58 G	20215691.70	20215691.79	20215691.92	0.0089	0.0080	
Moon	50636-08-01 10:05 G	20215691.83	20215691.92	20215692.07	0.0089	0.0078	*
Venus	50653-08-21 03:50 G	20221920.63	20221920.66	20221920.73	0.0090	0.0087	
Venus	50654-04-03 17:02 G	20222146.12	20222146.21	20222146.34	0.0090	0.0078	
Venus	50654-11-15 06:14 G	20222371.65	20222371.76	20222371.93	0.0090	0.0069	
Venus	50655-06-28 20:10 G	20222597.18	20222597.34	20222597.51	0.0090	0.0059	
Venus	50656-02-09 09:22 G	20222822.72	20222822.89	20222823.09	0.0090	0.0050	
Venus	50656-09-21 22:34 G	20223048.26	20223048.44	20223048.65	0.0090	0.0041	
Venus	50657-05-05 12:14 G	20223273.81	20223274.01	20223274.22	0.0090	0.0031	
Venus	50657-12-17 01:26 G	20223499.36	20223499.56	20223499.79	0.0090	0.0022	
Venus	50658-07-30 15:22 G	20223724.92	20223725.14	20223725.35	0.0090	0.0012	
Venus	50659-03-13 04:34 G	20223950.47	20223950.69	20223950.91	0.0090	0.0003	
Venus	50659-10-24 18:00 G	20224176.03	20224176.25	20224176.47	0.0090	0.0007	
Venus	50660-06-06 07:26 G	20224401.60	20224401.81	20224402.03	0.0090	0.0016	
Venus	50661-01-17 20:53 G	20224627.16	20224627.37	20224627.58	0.0090	0.0026	
Venus	50661-08-31 10:05 G	20224852.73	20224852.92	20224853.13	0.0090	0.0036	
Venus	50662-04-13 23:31 G	20225078.30	20225078.48	20225078.68	0.0090	0.0045	
Venus	50662-11-25 12:58 G	20225303.87	20225304.04	20225304.22	0.0090	0.0054	
Venus	50663-07-09 02:10 G	20225529.45	20225529.59	20225529.76	0.0090	0.0064	
Venus	50664-02-19 15:36 G	20225755.04	20225755.15	20225755.29	0.0090	0.0073	
Venus	50664-10-02 04:48 G	20225980.63	20225980.70	20225980.81	0.0090	0.0082	
Mars	50674-02-18 08:24 G	20229406.53	20229406.85	20229407.17	0.0090	0.0006	
Mercury	50696-04-10 19:41 G	20237494.32	20237494.32	20237494.35	0.0089	0.0088	
Mercury	50696-07-07 21:07 G	20237582.34	20237582.38	20237582.45	0.0089	0.0080	
Mercury	50696-10-03 22:34 G	20237670.37	20237670.44	20237670.52	0.0089	0.0072	

Mercury	50696-12-31 00:00 G	20237758.41	20237758.50	20237758.59	0.0089	0.0064
Mercury	50697-03-29 00:58 G	20237846.45	20237846.54	20237846.65	0.0089	0.0057
Mercury	50697-06-25 02:24 G	20237934.50	20237934.60	20237934.72	0.0089	0.0049
Mercury	50697-09-21 03:36 G	20238022.54	20238022.65	20238022.78	0.0089	0.0041
Mercury	50697-12-18 05:02 G	20238110.59	20238110.71	20238110.84	0.0089	0.0033
Mercury	50698-03-16 06:29 G	20238198.64	20238198.77	20238198.89	0.0089	0.0025
Mercury	50698-06-12 07:41 G	20238286.69	20238286.82	20238286.95	0.0089	0.0018
Mercury	50698-09-08 08:53 G	20238374.74	20238374.87	20238375.01	0.0089	0.0010
Mercury	50698-12-05 10:19 G	20238462.80	20238462.93	20238463.06	0.0089	0.0002
Mercury	50699-03-03 11:31 G	20238550.85	20238550.98	20238551.11	0.0089	0.0006
Mercury	50699-05-30 12:43 G	20238638.91	20238639.03	20238639.17	0.0089	0.0014
Mercury	50699-08-26 14:10 G	20238726.96	20238727.09	20238727.22	0.0089	0.0021
Mercury	50699-11-22 15:22 G	20238815.02	20238815.14	20238815.27	0.0089	0.0029
Mercury	50700-02-18 16:34 G	20238903.08	20238903.19	20238903.31	0.0089	0.0037
Mercury	50700-05-17 17:46 G	20238991.14	20238991.24	20238991.36	0.0089	0.0045
Mercury	50700-08-13 19:12 G	20239079.20	20239079.30	20239079.41	0.0089	0.0052
Mercury	50700-11-09 20:24 G	20239167.26	20239167.35	20239167.45	0.0089	0.0060
Mercury	50701-02-05 21:36 G	20239255.32	20239255.40	20239255.49	0.0089	0.0068
Mercury	50701-05-04 23:02 G	20239343.39	20239343.46	20239343.53	0.0089	0.0075
Mercury	50701-08-01 00:14 G	20239431.47	20239431.51	20239431.56	0.0089	0.0083
Jupiter	50710-07-17 09:22 G	20242703.61	20242703.89	20242704.24	0.0088	0.0073
Moon	50712-01-18 17:17 G	20243254.13	20243254.22	20243254.30	0.0088	0.0083
Earth	50712-01-18 19:26 G	20243254.24	20243254.31	20243254.44	0.0088	0.0082 *
Earth	50713-01-20 07:55 G	20243621.63	20243621.83	20243622.05	0.0088	0.0053
Moon	50713-01-20 10:19 G	20243621.74	20243621.93	20243622.17	0.0088	0.0053 *
Moon	50714-01-22 18:43 G	20243989.04	20243989.28	20243989.53	0.0088	0.0026
Earth	50714-01-22 20:10 G	20243989.10	20243989.34	20243989.60	0.0088	0.0025 *
Moon	50715-01-25 08:10 G	20244356.58	20244356.84	20244357.12	0.0088	0.0006
Earth	50715-01-25 08:24 G	20244356.59	20244356.85	20244357.11	0.0088	0.0004 *
Earth	50716-01-27 20:10 G	20244724.11	20244724.34	20244724.59	0.0088	0.0032

Moon	50716-01-27 20:38 G	20244724.15	20244724.36	20244724.61	0.0088	0.0033 *
Moon	50717-01-29 05:31 G	20245091.56	20245091.73	20245091.95	0.0088	0.0062
Earth	50717-01-29 08:10 G	20245091.66	20245091.84	20245092.04	0.0088	0.0061 *
Moon	50718-01-31 23:02 G	20245459.44	20245459.46	20245459.50	0.0088	0.0088
Venus	50735-02-25 07:41 G	20251692.80	20251692.82	20251692.85	0.0088	0.0087
Venus	50735-10-08 19:55 G	20251918.26	20251918.33	20251918.45	0.0088	0.0079
Venus	50736-05-21 08:53 G	20252143.75	20252143.87	20252144.02	0.0088	0.0070
Venus	50737-01-01 21:50 G	20252369.26	20252369.41	20252369.58	0.0088	0.0061
Venus	50737-08-15 10:19 G	20252594.77	20252594.93	20252595.13	0.0088	0.0053
Venus	50738-03-28 23:02 G	20252820.29	20252820.46	20252820.67	0.0088	0.0044
Venus	50738-11-09 12:00 G	20253045.80	20253046.00	20253046.21	0.0088	0.0035
Venus	50739-06-23 00:43 G	20253271.32	20253271.53	20253271.74	0.0088	0.0026
Venus	50740-02-03 13:41 G	20253496.85	20253497.07	20253497.28	0.0088	0.0017
Venus	50740-09-16 02:10 G	20253722.37	20253722.59	20253722.81	0.0088	0.0008
Venus	50741-04-29 14:53 G	20253947.90	20253948.12	20253948.34	0.0088	0.0001
Venus	50741-12-11 03:22 G	20254173.43	20254173.64	20254173.87	0.0088	0.0010
Venus	50742-07-24 16:05 G	20254398.96	20254399.17	20254399.39	0.0088	0.0018
Venus	50743-03-07 04:34 G	20254624.49	20254624.69	20254624.91	0.0088	0.0027
Venus	50743-10-18 17:02 G	20254850.02	20254850.21	20254850.42	0.0088	0.0036
Venus	50744-05-31 05:31 G	20255075.56	20255075.73	20255075.94	0.0088	0.0045
Venus	50745-01-11 18:43 G	20255301.11	20255301.28	20255301.46	0.0088	0.0053
Venus	50745-08-25 07:12 G	20255526.65	20255526.80	20255526.96	0.0088	0.0062
Venus	50746-04-07 19:41 G	20255752.21	20255752.32	20255752.46	0.0088	0.0071
Venus	50746-11-19 07:55 G	20255977.77	20255977.83	20255977.95	0.0088	0.0080
Mars	50755-11-01 22:34 G	20259247.21	20259247.44	20259247.69	0.0088	0.0054
Mars	50757-09-26 04:05 G	20259941.43	20259941.67	20259941.93	0.0088	0.0050
Mercury	50780-09-08 09:50 G	20268324.86	20268324.91	20268324.98	0.0088	0.0084
Mercury	50780-12-05 13:26 G	20268412.96	20268413.06	20268413.18	0.0088	0.0073
Mercury	50781-03-03 17:02 G	20268501.08	20268501.21	20268501.37	0.0088	0.0061
Mercury	50781-05-30 21:07 G	20268589.22	20268589.38	20268589.54	0.0088	0.0050



Mercury	50781-08-27 00:29 G	20268677.35	20268677.52	20268677.71	0.0088	0.0039
Mercury	50781-11-23 04:05 G	20268765.50	20268765.67	20268765.87	0.0088	0.0028
Mercury	50782-02-19 08:10 G	20268853.64	20268853.84	20268854.03	0.0088	0.0016
Mercury	50782-05-18 11:46 G	20268941.79	20268941.99	20268942.19	0.0088	0.0004
Mercury	50782-08-14 15:22 G	20269029.95	20269030.14	20269030.34	0.0088	0.0008
Mercury	50782-11-10 19:12 G	20269118.11	20269118.30	20269118.49	0.0088	0.0019
Mercury	50783-02-06 22:34 G	20269206.27	20269206.44	20269206.64	0.0088	0.0031
Mercury	50783-05-06 02:24 G	20269294.44	20269294.60	20269294.78	0.0088	0.0042
Mercury	50783-08-02 06:00 G	20269382.61	20269382.75	20269382.92	0.0088	0.0053
Mercury	50783-10-29 09:50 G	20269470.79	20269470.91	20269471.05	0.0088	0.0065
Mercury	50784-01-25 13:12 G	20269558.98	20269559.05	20269559.17	0.0088	0.0077
Mercury	50784-04-22 17:17 G	20269647.21	20269647.22	20269647.25	0.0088	0.0088
Moon	50795-07-22 06:29 G	20273754.66	20273754.77	20273754.93	0.0089	0.0074
Earth	50795-07-22 06:43 G	20273754.68	20273754.78	20273754.92	0.0089	0.0078 *
Moon	50796-07-23 17:31 G	20274122.02	20274122.23	20274122.44	0.0089	0.0053
Earth	50796-07-23 18:14 G	20274122.05	20274122.26	20274122.47	0.0089	0.0049 *
Earth	50797-07-26 05:17 G	20274489.48	20274489.72	20274489.97	0.0089	0.0021
Moon	50797-07-26 06:58 G	20274489.56	20274489.79	20274490.05	0.0089	0.0017 *
Moon	50798-07-28 13:26 G	20274856.80	20274857.06	20274857.32	0.0089	0.0003
Earth	50798-07-28 16:34 G	20274856.94	20274857.19	20274857.45	0.0089	0.0008 *
Earth	50799-07-31 03:36 G	20275224.43	20275224.65	20275224.89	0.0089	0.0036
Moon	50799-07-31 06:58 G	20275224.57	20275224.79	20275225.02	0.0089	0.0040 *
Moon	50800-08-01 11:17 G	20275591.79	20275591.97	20275592.17	0.0089	0.0060
Earth	50800-08-01 14:38 G	20275591.96	20275592.11	20275592.31	0.0089	0.0065 *
Venus	50817-11-23 13:12 G	20281915.03	20281915.05	20281915.10	0.0090	0.0088
Venus	50818-07-07 02:38 G	20282140.52	20282140.61	20282140.73	0.0090	0.0079
Venus	50819-02-17 15:50 G	20282366.04	20282366.16	20282366.32	0.0090	0.0070
Venus	50819-10-01 05:02 G	20282591.57	20282591.71	20282591.89	0.0090	0.0061
Venus	50820-05-13 18:29 G	20282817.11	20282817.27	20282817.47	0.0090	0.0052
Venus	50820-12-25 08:10 G	20283042.65	20283042.84	20283043.04	0.0090	0.0042

Venus	50821-08-07 21:22 G	20283268.20	20283268.39	20283268.61	0.0090	0.0033
Venus	50822-03-21 10:48 G	20283493.74	20283493.95	20283494.17	0.0090	0.0023
Venus	50822-11-02 00:14 G	20283719.29	20283719.51	20283719.73	0.0090	0.0014
Venus	50823-06-15 13:41 G	20283944.85	20283945.07	20283945.29	0.0090	0.0005
Venus	50824-01-27 03:07 G	20284170.41	20284170.63	20284170.85	0.0090	0.0005
Venus	50824-09-08 16:34 G	20284395.97	20284396.19	20284396.40	0.0090	0.0014
Venus	50825-04-22 05:31 G	20284621.53	20284621.73	20284621.96	0.0090	0.0024
Venus	50825-12-03 18:58 G	20284847.10	20284847.29	20284847.51	0.0090	0.0033
Venus	50826-07-17 08:38 G	20285072.67	20285072.86	20285073.06	0.0090	0.0042
Venus	50827-02-27 21:50 G	20285298.25	20285298.41	20285298.60	0.0090	0.0052
Venus	50827-10-11 11:02 G	20285523.82	20285523.96	20285524.14	0.0090	0.0061
Venus	50828-05-24 00:29 G	20285749.40	20285749.52	20285749.67	0.0090	0.0070
Venus	50829-01-04 13:55 G	20285974.99	20285975.08	20285975.20	0.0090	0.0079
Venus	50829-08-18 03:36 G	20286200.62	20286200.65	20286200.69	0.0090	0.0088
Mars	50837-10-03 06:14 G	20289168.53	20289168.76	20289169.04	0.0090	0.0054
Mars	50839-08-29 16:19 G	20289864.00	20289864.18	20289864.44	0.0090	0.0065
Mercury	50861-01-06 19:12 G	20297665.28	20297665.30	20297665.34	0.0089	0.0086
Mercury	50861-04-04 20:38 G	20297753.31	20297753.36	20297753.43	0.0089	0.0078
Mercury	50861-07-01 22:05 G	20297841.34	20297841.42	20297841.50	0.0089	0.0070
Mercury	50861-09-27 23:02 G	20297929.38	20297929.46	20297929.57	0.0089	0.0063
Mercury	50861-12-25 00:29 G	20298017.42	20298017.52	20298017.63	0.0089	0.0055
Mercury	50862-03-23 01:41 G	20298105.47	20298105.57	20298105.69	0.0089	0.0047
Mercury	50862-06-19 03:07 G	20298193.52	20298193.63	20298193.75	0.0089	0.0039
Mercury	50862-09-15 04:34 G	20298281.57	20298281.69	20298281.81	0.0089	0.0031
Mercury	50862-12-12 05:46 G	20298369.62	20298369.74	20298369.87	0.0089	0.0024
Mercury	50863-03-10 06:58 G	20298457.67	20298457.79	20298457.93	0.0089	0.0016
Mercury	50863-06-06 08:24 G	20298545.72	20298545.85	20298545.98	0.0089	0.0008
Mercury	50863-09-02 09:36 G	20298633.77	20298633.90	20298634.04	0.0089	0.0003
Mercury	50863-11-29 11:02 G	20298721.83	20298721.96	20298722.09	0.0089	0.0008
Mercury	50864-02-25 12:14 G	20298809.88	20298810.01	20298810.14	0.0089	0.0015

Mercury	50864-05-23 13:26 G	20298897.94	20298898.06	20298898.19	0.0089	0.0023
Mercury	50864-08-19 14:38 G	20298986.00	20298986.11	20298986.24	0.0089	0.0031
Mercury	50864-11-15 15:50 G	20299074.05	20299074.16	20299074.29	0.0089	0.0039
Mercury	50865-02-11 17:17 G	20299162.11	20299162.22	20299162.34	0.0089	0.0046
Mercury	50865-05-10 18:29 G	20299250.17	20299250.27	20299250.38	0.0089	0.0054
Mercury	50865-08-06 19:41 G	20299338.24	20299338.32	20299338.42	0.0089	0.0062
Mercury	50865-11-02 20:53 G	20299426.30	20299426.37	20299426.46	0.0089	0.0070
Mercury	50866-01-29 22:19 G	20299514.37	20299514.43	20299514.50	0.0089	0.0077
Mercury	50866-04-27 23:31 G	20299602.45	20299602.48	20299602.52	0.0089	0.0085
Jupiter	50876-09-22 01:26 G	20303402.15	20303402.56	20303403.05	0.0088	0.0051
Moon	50877-01-19 12:58 G	20303521.92	20303522.04	20303522.21	0.0088	0.0073
Earth	50877-01-19 13:41 G	20303521.93	20303522.07	20303522.26	0.0088	0.0069 *
Moon	50878-01-22 01:55 G	20303889.34	20303889.58	20303889.83	0.0088	0.0036
Earth	50878-01-22 01:55 G	20303889.37	20303889.58	20303889.83	0.0088	0.0041 *
Earth	50879-01-24 14:38 G	20304256.85	20304257.11	20304257.37	0.0088	0.0011
Moon	50879-01-24 16:34 G	20304256.95	20304257.19	20304257.45	0.0088	0.0016 *
Moon	50880-01-27 00:14 G	20304624.25	20304624.51	20304624.77	0.0088	0.0021
Earth	50880-01-27 02:38 G	20304624.37	20304624.61	20304624.88	0.0088	0.0017 *
Earth	50881-01-28 14:24 G	20304991.89	20304992.10	20304992.34	0.0088	0.0046
Moon	50881-01-28 18:14 G	20304992.03	20304992.26	20304992.49	0.0088	0.0041 *
Moon	50882-01-30 23:17 G	20305359.35	20305359.47	20305359.59	0.0088	0.0078
Earth	50882-01-31 02:38 G	20305359.48	20305359.61	20305359.77	0.0088	0.0074 *
Venus	50900-01-10 06:00 G	20311912.68	20311912.75	20311912.86	0.0088	0.0080
Venus	50900-08-23 18:58 G	20312138.17	20312138.29	20312138.43	0.0088	0.0071
Venus	50901-04-06 07:12 G	20312363.67	20312363.80	20312363.98	0.0088	0.0063
Venus	50901-11-17 20:10 G	20312589.18	20312589.34	20312589.53	0.0088	0.0054
Venus	50902-07-01 09:07 G	20312814.70	20312814.88	20312815.07	0.0088	0.0045
Venus	50903-02-11 22:05 G	20313040.22	20313040.42	20313040.62	0.0088	0.0036
Venus	50903-09-25 10:19 G	20313265.74	20313265.93	20313266.15	0.0088	0.0028
Venus	50904-05-07 23:17 G	20313491.26	20313491.47	20313491.69	0.0088	0.0019

Venus	50904-12-19 12:14 G	20313716.79	20313717.01	20313717.23	0.0088	0.0010
Venus	50905-08-02 00:43 G	20313942.31	20313942.53	20313942.76	0.0088	0.0002
Venus	50906-03-15 13:26 G	20314167.84	20314168.06	20314168.28	0.0088	0.0007
Venus	50906-10-27 01:41 G	20314393.37	20314393.57	20314393.80	0.0088	0.0017
Venus	50907-06-09 14:38 G	20314618.90	20314619.11	20314619.32	0.0088	0.0025
Venus	50908-01-21 03:07 G	20314844.44	20314844.63	20314844.85	0.0088	0.0034
Venus	50908-09-02 15:36 G	20315069.98	20315070.15	20315070.36	0.0088	0.0043
Venus	50909-04-16 04:34 G	20315295.52	20315295.69	20315295.87	0.0088	0.0051
Venus	50909-11-27 16:48 G	20315521.06	20315521.20	20315521.38	0.0088	0.0060
Venus	50910-07-11 05:46 G	20315746.61	20315746.74	20315746.88	0.0088	0.0068
Venus	50911-02-21 18:14 G	20315972.17	20315972.26	20315972.38	0.0088	0.0077
Venus	50911-10-05 06:43 G	20316197.76	20316197.78	20316197.85	0.0088	0.0086
Mars	50921-05-12 04:48 G	20319704.41	20319704.70	20319705.02	0.0088	0.0011
Mercury	50945-06-06 07:41 G	20328495.76	20328495.82	20328495.92	0.0088	0.0080
Mercury	50945-09-02 11:31 G	20328583.87	20328583.98	20328584.11	0.0088	0.0069
Mercury	50945-11-29 15:07 G	20328671.99	20328672.13	20328672.29	0.0088	0.0058
Mercury	50946-02-25 18:43 G	20328760.13	20328760.28	20328760.46	0.0088	0.0047
Mercury	50946-05-24 22:34 G	20328848.27	20328848.44	20328848.63	0.0088	0.0035
Mercury	50946-08-21 02:10 G	20328936.41	20328936.59	20328936.79	0.0088	0.0024
Mercury	50946-11-17 06:00 G	20329024.56	20329024.75	20329024.95	0.0088	0.0012
Mercury	50947-02-13 09:50 G	20329112.71	20329112.91	20329113.11	0.0088	0.0000
Mercury	50947-05-12 13:26 G	20329200.87	20329201.06	20329201.26	0.0088	0.0011
Mercury	50947-08-08 17:02 G	20329289.03	20329289.21	20329289.41	0.0088	0.0023
Mercury	50947-11-04 20:38 G	20329377.19	20329377.36	20329377.55	0.0088	0.0034
Mercury	50948-02-01 00:29 G	20329465.36	20329465.52	20329465.70	0.0088	0.0046
Mercury	50948-04-29 04:19 G	20329553.53	20329553.68	20329553.83	0.0088	0.0057
Mercury	50948-07-26 07:41 G	20329641.71	20329641.82	20329641.96	0.0088	0.0069
Mercury	50948-10-22 11:46 G	20329729.91	20329729.99	20329730.07	0.0088	0.0080
Earth	50960-07-24 03:22 G	20334022.47	20334022.64	20334022.82	0.0089	0.0064
Moon	50960-07-24 06:00 G	20334022.58	20334022.75	20334022.92	0.0089	0.0064 *

Moon	50961-07-26 11:31 G	20334389.74	20334389.98	20334390.22	0.0089	0.0036
Earth	50961-07-26 14:24 G	20334389.88	20334390.10	20334390.35	0.0089	0.0036 *
Earth	50962-07-29 01:41 G	20334757.31	20334757.57	20334757.82	0.0089	0.0007
Moon	50962-07-29 05:17 G	20334757.47	20334757.72	20334757.98	0.0089	0.0007 *
Moon	50963-07-31 09:22 G	20335124.66	20335124.89	20335125.15	0.0089	0.0021
Earth	50963-07-31 12:58 G	20335124.79	20335125.04	20335125.29	0.0089	0.0021 *
Earth	50964-08-01 23:46 G	20335492.29	20335492.49	20335492.72	0.0089	0.0050
Moon	50964-08-02 03:07 G	20335492.42	20335492.63	20335492.85	0.0089	0.0051 *
Moon	50965-08-04 09:22 G	20335859.79	20335859.89	20335860.02	0.0089	0.0078
Earth	50965-08-04 11:31 G	20335859.86	20335859.98	20335860.09	0.0089	0.0079 *
Venus	50982-02-25 23:02 G	20341909.44	20341909.46	20341909.49	0.0090	0.0089
Venus	50982-10-09 12:14 G	20342134.92	20342135.01	20342135.12	0.0090	0.0080
Venus	50983-05-23 01:41 G	20342360.44	20342360.57	20342360.71	0.0090	0.0071
Venus	50984-01-03 14:53 G	20342585.98	20342586.12	20342586.29	0.0090	0.0062
Venus	50984-08-16 04:19 G	20342811.51	20342811.68	20342811.87	0.0090	0.0053
Venus	50985-03-29 17:31 G	20343037.05	20343037.23	20343037.44	0.0090	0.0044
Venus	50985-11-10 06:43 G	20343262.60	20343262.78	20343263.00	0.0090	0.0035
Venus	50986-06-23 20:24 G	20343488.15	20343488.35	20343488.57	0.0090	0.0025
Venus	50987-02-04 09:50 G	20343713.70	20343713.91	20343714.13	0.0090	0.0016
Venus	50987-09-17 23:17 G	20343939.25	20343939.47	20343939.69	0.0090	0.0007
Venus	50988-04-30 12:29 G	20344164.80	20344165.02	20344165.24	0.0090	0.0003
Venus	50988-12-12 01:55 G	20344390.36	20344390.58	20344390.80	0.0090	0.0012
Venus	50989-07-25 15:07 G	20344615.93	20344616.13	20344616.36	0.0090	0.0022
Venus	50990-03-08 04:34 G	20344841.49	20344841.69	20344841.91	0.0090	0.0031
Venus	50990-10-19 18:00 G	20345067.06	20345067.25	20345067.45	0.0090	0.0040
Venus	50991-06-02 07:26 G	20345292.63	20345292.81	20345293.00	0.0090	0.0049
Venus	50992-01-13 20:53 G	20345518.21	20345518.37	20345518.54	0.0090	0.0058
Venus	50992-08-26 10:05 G	20345743.80	20345743.92	20345744.08	0.0090	0.0068
Venus	50993-04-08 23:17 G	20345969.38	20345969.47	20345969.61	0.0090	0.0077
Venus	50993-11-20 12:43 G	20346194.99	20346195.03	20346195.12	0.0090	0.0086

# 52ND MILLENNIUM CE

This is a list of transits visible from Neptune in the 52nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	51003-04-14 18:58	G	20349625.99	20349626.29	20349626.62	0.0090	0.0019	
Mercury	51025-10-05 18:43	G	20357836.25	20357836.28	20357836.33	0.0089	0.0084	
Mercury	51026-01-01 20:10	G	20357924.28	20357924.34	20357924.41	0.0089	0.0076	
Mercury	51026-03-30 21:22	G	20358012.32	20358012.39	20358012.48	0.0089	0.0068	
Mercury	51026-06-26 22:48	G	20358100.36	20358100.45	20358100.55	0.0089	0.0060	
Mercury	51026-09-23 00:14	G	20358188.40	20358188.51	20358188.61	0.0089	0.0052	
Mercury	51026-12-20 01:12	G	20358276.45	20358276.55	20358276.68	0.0089	0.0045	
Mercury	51027-03-18 02:38	G	20358364.50	20358364.61	20358364.73	0.0089	0.0037	
Mercury	51027-06-14 04:05	G	20358452.54	20358452.67	20358452.79	0.0089	0.0029	
Mercury	51027-09-10 05:17	G	20358540.60	20358540.72	20358540.85	0.0089	0.0021	
Mercury	51027-12-07 06:29	G	20358628.65	20358628.77	20358628.91	0.0089	0.0014	
Mercury	51028-03-04 07:55	G	20358716.70	20358716.83	20358716.96	0.0089	0.0006	
Mercury	51028-05-31 09:07	G	20358804.75	20358804.88	20358805.02	0.0089	0.0003	
Mercury	51028-08-27 10:34	G	20358892.81	20358892.94	20358893.07	0.0089	0.0010	
Mercury	51028-11-23 11:46	G	20358980.86	20358980.99	20358981.12	0.0089	0.0018	
Mercury	51029-02-19 12:58	G	20359068.92	20359069.04	20359069.17	0.0089	0.0026	
Mercury	51029-05-18 14:24	G	20359156.98	20359157.10	20359157.22	0.0089	0.0033	
Mercury	51029-08-14 15:36	G	20359245.04	20359245.15	20359245.27	0.0089	0.0041	

Mercury	51029-11-10 16:48 G	20359333.10	20359333.20	20359333.31	0.0089	0.0049
Mercury	51030-02-06 18:14 G	20359421.16	20359421.26	20359421.36	0.0089	0.0056
Mercury	51030-05-05 19:26 G	20359509.22	20359509.31	20359509.40	0.0089	0.0064
Mercury	51030-08-01 20:24 G	20359597.29	20359597.35	20359597.44	0.0089	0.0072
Mercury	51030-10-28 21:36 G	20359685.36	20359685.40	20359685.47	0.0089	0.0080
Mercury	51031-01-24 23:02 G	20359773.45	20359773.46	20359773.49	0.0089	0.0087
Moon	51041-01-20 19:12 G	20363422.27	20363422.30	20363422.38	0.0088	0.0087
Earth	51041-01-20 20:53 G	20363422.31	20363422.37	20363422.47	0.0088	0.0084 *
Earth	51042-01-23 09:07 G	20363789.70	20363789.88	20363790.10	0.0088	0.0056
Moon	51042-01-23 11:46 G	20363789.79	20363789.99	20363790.19	0.0088	0.0053 *
Moon	51043-01-25 18:29 G	20364157.02	20364157.27	20364157.52	0.0088	0.0030
Earth	51043-01-25 21:50 G	20364157.17	20364157.41	20364157.66	0.0088	0.0027 *
Earth	51044-01-28 09:50 G	20364524.65	20364524.91	20364525.17	0.0088	0.0002
Moon	51044-01-28 13:26 G	20364524.80	20364525.06	20364525.32	0.0088	0.0004 *
Moon	51045-01-29 18:14 G	20364892.03	20364892.26	20364892.52	0.0088	0.0029
Earth	51045-01-29 21:50 G	20364892.18	20364892.41	20364892.67	0.0088	0.0031 *
Earth	51046-02-01 10:05 G	20365259.73	20365259.92	20365260.12	0.0088	0.0059
Moon	51046-02-01 12:43 G	20365259.87	20365260.03	20365260.25	0.0088	0.0062 *
Moon	51047-02-03 19:41 G	20365627.28	20365627.32	20365627.40	0.0088	0.0086
Earth	51047-02-03 21:36 G	20365627.39	20365627.40	20365627.47	0.0088	0.0088 *
Venus	51064-04-14 16:05 G	20371907.11	20371907.17	20371907.28	0.0088	0.0081
Venus	51064-11-26 05:02 G	20372132.60	20372132.71	20372132.85	0.0088	0.0072
Venus	51065-07-09 17:31 G	20372358.10	20372358.23	20372358.41	0.0088	0.0064
Venus	51066-02-20 06:29 G	20372583.61	20372583.77	20372583.96	0.0088	0.0055
Venus	51066-10-03 19:26 G	20372809.13	20372809.31	20372809.50	0.0088	0.0046
Venus	51067-05-17 07:55 G	20373034.64	20373034.83	20373035.04	0.0088	0.0038
Venus	51067-12-28 20:53 G	20373260.17	20373260.37	20373260.59	0.0088	0.0029
Venus	51068-08-10 09:50 G	20373485.70	20373485.91	20373486.12	0.0088	0.0020
Venus	51069-03-23 22:19 G	20373711.22	20373711.43	20373711.66	0.0088	0.0012
Venus	51069-11-04 11:02 G	20373936.74	20373936.96	20373937.19	0.0088	0.0003

Venus	51070-06-17 23:46 G	20374162.27	20374162.49	20374162.72	0.0088	0.0006
Venus	51071-01-29 12:29 G	20374387.81	20374388.02	20374388.25	0.0088	0.0015
Venus	51071-09-12 01:12 G	20374613.35	20374613.55	20374613.77	0.0088	0.0024
Venus	51072-04-24 13:55 G	20374838.88	20374839.08	20374839.29	0.0088	0.0032
Venus	51072-12-06 02:24 G	20375064.42	20375064.60	20375064.81	0.0088	0.0041
Venus	51073-07-19 15:22 G	20375289.96	20375290.14	20375290.32	0.0088	0.0049
Venus	51074-03-02 03:36 G	20375515.50	20375515.65	20375515.83	0.0088	0.0058
Venus	51074-10-13 16:05 G	20375741.05	20375741.17	20375741.33	0.0088	0.0067
Venus	51075-05-27 04:48 G	20375966.60	20375966.70	20375966.83	0.0088	0.0075
Venus	51076-01-07 18:00 G	20376192.18	20376192.25	20376192.32	0.0088	0.0083
Mars	51084-12-26 05:31 G	20379467.46	20379467.73	20379468.03	0.0088	0.0030
Mars	51086-11-20 10:48 G	20380161.83	20380161.95	20380162.14	0.0088	0.0076
Mercury	51109-12-07 02:38 G	20388578.58	20388578.61	20388578.65	0.0088	0.0087
Mercury	51110-03-05 06:00 G	20388666.67	20388666.75	20388666.87	0.0088	0.0076
Mercury	51110-06-01 09:36 G	20388754.79	20388754.90	20388755.06	0.0088	0.0065
Mercury	51110-08-28 13:41 G	20388842.92	20388843.07	20388843.23	0.0088	0.0053
Mercury	51110-11-24 17:17 G	20388931.06	20388931.22	20388931.40	0.0088	0.0041
Mercury	51111-02-20 21:07 G	20389019.20	20389019.38	20389019.57	0.0088	0.0030
Mercury	51111-05-20 00:43 G	20389107.34	20389107.53	20389107.73	0.0088	0.0019
Mercury	51111-08-16 04:34 G	20389195.49	20389195.69	20389195.89	0.0088	0.0007
Mercury	51111-11-12 08:10 G	20389283.65	20389283.84	20389284.04	0.0088	0.0005
Mercury	51112-02-08 12:00 G	20389371.80	20389372.00	20389372.19	0.0088	0.0016
Mercury	51112-05-06 15:22 G	20389459.96	20389460.14	20389460.34	0.0088	0.0028
Mercury	51112-08-02 19:12 G	20389548.13	20389548.30	20389548.48	0.0088	0.0039
Mercury	51112-10-29 22:34 G	20389636.30	20389636.44	20389636.62	0.0088	0.0051
Mercury	51113-01-26 02:24 G	20389724.47	20389724.60	20389724.76	0.0088	0.0062
Mercury	51113-04-24 06:00 G	20389812.66	20389812.75	20389812.88	0.0088	0.0074
Mercury	51113-07-21 09:50 G	20389900.87	20389900.91	20389900.98	0.0089	0.0085
Moon	51124-07-25 08:53 G	20393922.77	20393922.87	20393923.04	0.0089	0.0075
Earth	51124-07-25 12:43 G	20393922.93	20393923.03	20393923.16	0.0089	0.0079 *



Earth	51125-07-28 00:00 G	20394290.29	20394290.50	20394290.71	0.0089	0.0050
Moon	51125-07-28 03:22 G	20394290.45	20394290.64	20394290.85	0.0089	0.0055 *
Moon	51126-07-30 07:55 G	20394657.59	20394657.83	20394658.08	0.0089	0.0017
Earth	51126-07-30 11:02 G	20394657.72	20394657.96	20394658.22	0.0089	0.0022 *
Earth	51127-08-01 22:19 G	20395025.18	20395025.43	20395025.69	0.0089	0.0007
Moon	51127-08-02 00:29 G	20395025.26	20395025.52	20395025.79	0.0089	0.0003 *
Moon	51128-08-03 07:41 G	20395392.61	20395392.82	20395393.06	0.0089	0.0040
Earth	51128-08-03 09:22 G	20395392.66	20395392.89	20395393.13	0.0089	0.0036 *
Moon	51129-08-05 20:24 G	20395760.17	20395760.35	20395760.56	0.0089	0.0060
Earth	51129-08-05 20:24 G	20395760.19	20395760.35	20395760.54	0.0089	0.0064 *
Venus	51147-01-12 22:34 G	20402129.36	20402129.44	20402129.54	0.0090	0.0081
Venus	51147-08-26 11:46 G	20402354.88	20402354.99	20402355.14	0.0090	0.0072
Venus	51148-04-08 01:12 G	20402580.41	20402580.55	20402580.72	0.0090	0.0063
Venus	51148-11-19 14:24 G	20402805.94	20402806.10	20402806.29	0.0090	0.0054
Venus	51149-07-03 03:50 G	20403031.49	20403031.66	20403031.87	0.0090	0.0045
Venus	51150-02-13 17:17 G	20403257.03	20403257.22	20403257.43	0.0090	0.0036
Venus	51150-09-27 06:29 G	20403482.57	20403482.77	20403482.99	0.0090	0.0027
Venus	51151-05-10 19:55 G	20403708.12	20403708.33	20403708.55	0.0090	0.0018
Venus	51151-12-22 09:22 G	20403933.67	20403933.89	20403934.11	0.0090	0.0008
Venus	51152-08-03 22:48 G	20404159.23	20404159.45	20404159.67	0.0090	0.0001
Venus	51153-03-17 12:00 G	20404384.79	20404385.00	20404385.22	0.0090	0.0010
Venus	51153-10-29 01:12 G	20404610.35	20404610.55	20404610.77	0.0090	0.0020
Venus	51154-06-11 14:38 G	20404835.91	20404836.11	20404836.33	0.0090	0.0029
Venus	51155-01-23 03:50 G	20405061.48	20405061.66	20405061.87	0.0090	0.0038
Venus	51155-09-05 17:17 G	20405287.05	20405287.22	20405287.42	0.0090	0.0047
Venus	51156-04-18 06:43 G	20405512.62	20405512.78	20405512.96	0.0090	0.0056
Venus	51156-11-29 20:10 G	20405738.20	20405738.34	20405738.50	0.0090	0.0065
Venus	51157-07-13 09:36 G	20405963.79	20405963.90	20405964.03	0.0090	0.0074
Venus	51158-02-23 23:02 G	20406189.39	20406189.46	20406189.55	0.0090	0.0083
Mars	51166-11-27 20:53 G	20409388.08	20409388.37	20409388.69	0.0090	0.0029

Mercury	51190-04-06 17:17 G	20417919.22	20417919.22	20417919.23	0.0089	0.0089
Mercury	51190-07-03 18:29 G	20418007.23	20418007.27	20418007.33	0.0089	0.0081
Mercury	51190-09-29 19:41 G	20418095.26	20418095.32	20418095.41	0.0089	0.0073
Mercury	51190-12-26 21:07 G	20418183.30	20418183.38	20418183.47	0.0089	0.0065
Mercury	51191-03-24 22:34 G	20418271.34	20418271.44	20418271.54	0.0089	0.0057
Mercury	51191-06-20 23:31 G	20418359.38	20418359.48	20418359.60	0.0089	0.0050
Mercury	51191-09-17 00:58 G	20418447.43	20418447.54	20418447.66	0.0089	0.0042
Mercury	51191-12-14 02:24 G	20418535.48	20418535.60	20418535.72	0.0089	0.0034
Mercury	51192-03-11 03:50 G	20418623.53	20418623.66	20418623.78	0.0089	0.0026
Mercury	51192-06-07 04:48 G	20418711.58	20418711.70	20418711.84	0.0089	0.0019
Mercury	51192-09-03 06:14 G	20418799.63	20418799.76	20418799.89	0.0089	0.0011
Mercury	51192-11-30 07:41 G	20418887.68	20418887.82	20418887.95	0.0089	0.0004
Mercury	51193-02-26 08:53 G	20418975.74	20418975.87	20418976.00	0.0089	0.0005
Mercury	51193-05-25 10:05 G	20419063.79	20419063.92	20419064.05	0.0089	0.0013
Mercury	51193-08-21 11:17 G	20419151.85	20419151.97	20419152.10	0.0089	0.0021
Mercury	51193-11-17 12:43 G	20419239.90	20419240.03	20419240.15	0.0089	0.0028
Mercury	51194-02-13 13:55 G	20419327.96	20419328.08	20419328.20	0.0089	0.0036
Mercury	51194-05-12 15:07 G	20419416.02	20419416.13	20419416.25	0.0089	0.0044
Mercury	51194-08-08 16:34 G	20419504.08	20419504.19	20419504.29	0.0089	0.0051
Mercury	51194-11-04 17:31 G	20419592.14	20419592.23	20419592.34	0.0089	0.0059
Mercury	51195-01-31 18:43 G	20419680.21	20419680.28	20419680.38	0.0089	0.0067
Mercury	51195-04-29 19:55 G	20419768.28	20419768.33	20419768.42	0.0089	0.0075
Mercury	51195-07-26 21:22 G	20419856.35	20419856.39	20419856.45	0.0089	0.0082
Moon	51206-01-23 13:26 G	20423689.95	20423690.06	20423690.24	0.0088	0.0074
Earth	51206-01-23 17:31 G	20423690.08	20423690.23	20423690.39	0.0088	0.0070 *
Earth	51207-01-26 05:17 G	20424057.50	20424057.72	20424057.96	0.0088	0.0042
Moon	51207-01-26 09:22 G	20424057.66	20424057.89	20424058.13	0.0088	0.0038 *
Moon	51208-01-28 14:53 G	20424424.87	20424425.12	20424425.37	0.0088	0.0016
Earth	51208-01-28 18:00 G	20424424.99	20424425.25	20424425.50	0.0088	0.0013 *
Earth	51209-01-30 05:46 G	20424792.50	20424792.74	20424793.01	0.0088	0.0017

Moon	51209-01-30 08:53 G	20424792.61	20424792.87	20424793.13	0.0088	0.0019	*
Moon	51210-02-01 16:19 G	20425159.98	20425160.18	20425160.43	0.0088	0.0042	
Earth	51210-02-01 18:14 G	20425160.04	20425160.26	20425160.49	0.0088	0.0044	*
Earth	51211-02-04 06:29 G	20425527.63	20425527.77	20425527.92	0.0088	0.0073	
Moon	51211-02-04 06:29 G	20425527.64	20425527.77	20425527.91	0.0088	0.0076	*
Venus	51228-07-18 03:07 G	20431901.56	20431901.63	20431901.72	0.0088	0.0081	
Venus	51229-02-28 15:36 G	20432127.05	20432127.15	20432127.29	0.0088	0.0073	
Venus	51229-10-12 04:34 G	20432352.55	20432352.69	20432352.84	0.0088	0.0064	
Venus	51230-05-25 17:02 G	20432578.05	20432578.21	20432578.39	0.0088	0.0056	
Venus	51231-01-06 06:00 G	20432803.57	20432803.75	20432803.94	0.0088	0.0047	
Venus	51231-08-19 18:29 G	20433029.09	20433029.27	20433029.48	0.0088	0.0039	
Venus	51232-04-01 07:26 G	20433254.61	20433254.81	20433255.02	0.0088	0.0030	
Venus	51232-11-12 19:55 G	20433480.13	20433480.33	20433480.56	0.0088	0.0022	
Venus	51233-06-26 08:53 G	20433705.65	20433705.87	20433706.09	0.0088	0.0013	
Venus	51234-02-06 21:36 G	20433931.19	20433931.40	20433931.63	0.0088	0.0005	
Venus	51234-09-20 10:19 G	20434156.72	20434156.93	20434157.16	0.0088	0.0005	
Venus	51235-05-03 23:02 G	20434382.25	20434382.46	20434382.68	0.0088	0.0013	
Venus	51235-12-15 11:46 G	20434607.78	20434607.99	20434608.21	0.0088	0.0022	
Venus	51236-07-28 00:14 G	20434833.32	20434833.51	20434833.73	0.0088	0.0031	
Venus	51237-03-10 13:12 G	20435058.86	20435059.05	20435059.25	0.0088	0.0039	
Venus	51237-10-22 01:41 G	20435284.40	20435284.57	20435284.77	0.0088	0.0048	
Venus	51238-06-04 14:24 G	20435509.94	20435510.10	20435510.28	0.0088	0.0056	
Venus	51239-01-16 02:53 G	20435735.50	20435735.62	20435735.79	0.0088	0.0065	
Venus	51239-08-29 15:50 G	20435961.05	20435961.16	20435961.29	0.0088	0.0073	
Venus	51240-04-11 04:48 G	20436186.62	20436186.70	20436186.78	0.0088	0.0081	
Mars	51248-08-11 10:05 G	20439230.76	20439230.92	20439231.13	0.0088	0.0070	
Mars	51250-07-06 13:26 G	20439924.79	20439925.06	20439925.35	0.0088	0.0036	
Mercury	51274-09-03 01:12 G	20448749.48	20448749.55	20448749.62	0.0088	0.0082	
Mercury	51274-11-30 04:34 G	20448837.59	20448837.69	20448837.82	0.0088	0.0071	
Mercury	51275-02-26 08:10 G	20448925.71	20448925.84	20448926.00	0.0088	0.0060	

Mercury	51275-05-25 12:14 G	20449013.85	20449014.01	20449014.18	0.0088	0.0048
Mercury	51275-08-21 15:50 G	20449101.99	20449102.16	20449102.34	0.0088	0.0036
Mercury	51275-11-17 19:26 G	20449190.13	20449190.31	20449190.51	0.0088	0.0025
Mercury	51276-02-13 23:17 G	20449278.28	20449278.47	20449278.67	0.0088	0.0014
Mercury	51276-05-12 03:07 G	20449366.43	20449366.63	20449366.82	0.0088	0.0003
Mercury	51276-08-08 06:43 G	20449454.58	20449454.78	20449454.98	0.0088	0.0009
Mercury	51276-11-04 10:19 G	20449542.74	20449542.93	20449543.13	0.0088	0.0021
Mercury	51277-01-31 13:55 G	20449630.91	20449631.08	20449631.27	0.0088	0.0033
Mercury	51277-04-29 17:46 G	20449719.07	20449719.24	20449719.42	0.0088	0.0044
Mercury	51277-07-26 21:07 G	20449807.25	20449807.38	20449807.55	0.0088	0.0056
Mercury	51277-10-23 01:12 G	20449895.43	20449895.55	20449895.68	0.0088	0.0067
Mercury	51278-01-19 04:34 G	20449983.62	20449983.69	20449983.80	0.0088	0.0079
Moon	51289-07-27 07:26 G	20454190.66	20454190.81	20454191.00	0.0089	0.0066
Earth	51289-07-27 10:05 G	20454190.77	20454190.92	20454191.12	0.0089	0.0065 *
Earth	51290-07-29 21:22 G	20454558.17	20454558.39	20454558.64	0.0089	0.0036
Moon	51290-07-29 23:46 G	20454558.25	20454558.49	20454558.73	0.0089	0.0035 *
Moon	51291-08-01 08:24 G	20454925.61	20454925.85	20454926.10	0.0089	0.0009
Earth	51291-08-01 08:53 G	20454925.61	20454925.87	20454926.12	0.0089	0.0007 *
Moon	51292-08-02 19:12 G	20455293.06	20455293.30	20455293.57	0.0089	0.0022
Earth	51292-08-02 19:55 G	20455293.08	20455293.33	20455293.58	0.0089	0.0021 *
Earth	51293-08-05 06:29 G	20455660.58	20455660.77	20455661.00	0.0089	0.0050
Moon	51293-08-05 08:38 G	20455660.65	20455660.86	20455661.07	0.0089	0.0049 *
Moon	51294-08-07 14:38 G	20456028.02	20456028.11	20456028.24	0.0089	0.0080
Earth	51294-08-07 18:14 G	20456028.14	20456028.26	20456028.38	0.0089	0.0079 *
Venus	51311-04-17 08:38 G	20462123.79	20462123.86	20462123.97	0.0089	0.0082
Venus	51311-11-28 22:05 G	20462349.31	20462349.42	20462349.57	0.0090	0.0073
Venus	51312-07-11 11:46 G	20462574.85	20462574.99	20462575.16	0.0090	0.0064
Venus	51313-02-22 01:12 G	20462800.39	20462800.55	20462800.73	0.0090	0.0055
Venus	51313-10-05 14:24 G	20463025.93	20463026.10	20463026.30	0.0090	0.0046
Venus	51314-05-19 03:50 G	20463251.47	20463251.66	20463251.87	0.0090	0.0037

Venus	51314-12-30 17:17 G	20463477.02	20463477.22	20463477.44	0.0090	0.0028
Venus	51315-08-13 06:43 G	20463702.57	20463702.78	20463703.00	0.0090	0.0019
Venus	51316-03-25 20:10 G	20463928.12	20463928.34	20463928.56	0.0090	0.0009
Venus	51316-11-06 09:36 G	20464153.68	20464153.90	20464154.12	0.0090	0.0001
Venus	51317-06-19 22:48 G	20464379.24	20464379.45	20464379.67	0.0090	0.0009
Venus	51318-01-31 12:14 G	20464604.80	20464605.01	20464605.23	0.0090	0.0018
Venus	51318-09-14 01:26 G	20464830.36	20464830.56	20464830.78	0.0090	0.0027
Venus	51319-04-27 14:53 G	20465055.92	20465056.12	20465056.32	0.0090	0.0036
Venus	51319-12-09 04:05 G	20465281.49	20465281.67	20465281.86	0.0090	0.0045
Venus	51320-07-21 17:31 G	20465507.06	20465507.23	20465507.41	0.0090	0.0054
Venus	51321-03-04 06:58 G	20465732.64	20465732.79	20465732.95	0.0090	0.0063
Venus	51321-10-15 20:10 G	20465958.22	20465958.34	20465958.48	0.0090	0.0072
Venus	51322-05-29 09:22 G	20466183.81	20466183.89	20466184.00	0.0090	0.0081
Mars	51330-07-12 22:19 G	20469150.28	20469150.43	20469150.64	0.0090	0.0075
Mars	51332-06-07 12:00 G	20469845.73	20469846.00	20469846.29	0.0090	0.0046
Mercury	51355-01-02 17:02 G	20478090.18	20478090.21	20478090.25	0.0089	0.0085
Mercury	51355-03-31 18:29 G	20478178.21	20478178.27	20478178.33	0.0089	0.0077
Mercury	51355-06-27 19:26 G	20478266.24	20478266.31	20478266.41	0.0089	0.0070
Mercury	51355-09-23 20:53 G	20478354.28	20478354.37	20478354.47	0.0089	0.0062
Mercury	51355-12-20 22:19 G	20478442.33	20478442.43	20478442.54	0.0089	0.0054
Mercury	51356-03-17 23:31 G	20478530.38	20478530.48	20478530.60	0.0089	0.0046
Mercury	51356-06-14 00:58 G	20478618.42	20478618.54	20478618.66	0.0089	0.0038
Mercury	51356-09-10 02:10 G	20478706.47	20478706.59	20478706.72	0.0089	0.0031
Mercury	51356-12-07 03:22 G	20478794.52	20478794.64	20478794.77	0.0089	0.0023
Mercury	51357-03-05 04:48 G	20478882.57	20478882.70	20478882.83	0.0089	0.0015
Mercury	51357-06-01 06:00 G	20478970.62	20478970.75	20478970.89	0.0089	0.0008
Mercury	51357-08-28 07:26 G	20479058.68	20479058.81	20479058.94	0.0089	0.0001
Mercury	51357-11-24 08:38 G	20479146.73	20479146.86	20479146.99	0.0089	0.0008
Mercury	51358-02-20 09:50 G	20479234.79	20479234.91	20479235.04	0.0089	0.0016
Mercury	51358-05-19 11:02 G	20479322.84	20479322.96	20479323.09	0.0089	0.0024

Mercury	51358-08-15 12:29 G	20479410.90	20479411.02	20479411.14	0.0089	0.0031
Mercury	51358-11-11 13:41 G	20479498.96	20479499.07	20479499.19	0.0089	0.0039
Mercury	51359-02-07 14:53 G	20479587.02	20479587.12	20479587.24	0.0089	0.0047
Mercury	51359-05-06 16:05 G	20479675.08	20479675.17	20479675.28	0.0089	0.0055
Mercury	51359-08-02 17:31 G	20479763.14	20479763.23	20479763.33	0.0089	0.0062
Mercury	51359-10-29 18:43 G	20479851.21	20479851.28	20479851.36	0.0089	0.0070
Mercury	51360-01-25 19:55 G	20479939.28	20479939.33	20479939.40	0.0089	0.0078
Mercury	51360-04-22 21:22 G	20480027.36	20480027.39	20480027.42	0.0089	0.0085
Earth	51370-01-24 01:41 G	20483590.52	20483590.57	20483590.67	0.0088	0.0085
Moon	51370-01-24 05:31 G	20483590.71	20483590.73	20483590.76	0.0088	0.0088
Moon	51371-01-26 10:48 G	20483957.77	20483957.95	20483958.18	0.0088	0.0053
Earth	51371-01-26 13:41 G	20483957.90	20483958.07	20483958.30	0.0088	0.0057 *
Earth	51372-01-29 01:55 G	20484325.35	20484325.58	20484325.85	0.0088	0.0028
Moon	51372-01-29 03:36 G	20484325.42	20484325.65	20484325.92	0.0088	0.0032 *
Moon	51373-01-30 13:41 G	20484692.82	20484693.07	20484693.32	0.0088	0.0005
Earth	51373-01-30 14:38 G	20484692.85	20484693.11	20484693.37	0.0088	0.0002 *
Moon	51374-02-02 02:24 G	20485060.35	20485060.60	20485060.86	0.0088	0.0027
Earth	51374-02-02 02:24 G	20485060.37	20485060.60	20485060.86	0.0088	0.0031 *
Earth	51375-02-04 14:24 G	20485427.92	20485428.10	20485428.31	0.0088	0.0059
Moon	51375-02-04 16:19 G	20485428.02	20485428.18	20485428.37	0.0088	0.0063 *
Moon	51376-02-07 00:14 G	20485795.44	20485795.51	20485795.60	0.0088	0.0084
Earth	51376-02-07 02:24 G	20485795.59	20485795.60	20485795.67	0.0088	0.0088 *
Venus	51392-10-20 14:24 G	20491896.03	20491896.10	20491896.19	0.0088	0.0081
Venus	51393-06-03 02:53 G	20492121.52	20492121.62	20492121.76	0.0088	0.0073
Venus	51394-01-14 15:36 G	20492347.02	20492347.15	20492347.32	0.0088	0.0065
Venus	51394-08-28 04:34 G	20492572.53	20492572.69	20492572.87	0.0088	0.0056
Venus	51395-04-10 17:02 G	20492798.04	20492798.21	20492798.41	0.0088	0.0048
Venus	51395-11-22 06:00 G	20493023.56	20493023.75	20493023.95	0.0088	0.0039
Venus	51396-07-04 18:29 G	20493249.07	20493249.27	20493249.49	0.0088	0.0031
Venus	51397-02-15 07:26 G	20493474.60	20493474.81	20493475.02	0.0088	0.0022

Venus	51397-09-28 19:55 G	20493700.12	20493700.33	20493700.56	0.0088	0.0014
Venus	51398-05-12 08:38 G	20493925.65	20493925.86	20493926.09	0.0088	0.0006
Venus	51398-12-23 21:36 G	20494151.18	20494151.40	20494151.62	0.0088	0.0003
Venus	51399-08-06 10:19 G	20494376.71	20494376.93	20494377.15	0.0088	0.0012
Venus	51400-03-19 22:48 G	20494602.24	20494602.45	20494602.67	0.0088	0.0021
Venus	51400-10-31 11:31 G	20494827.78	20494827.98	20494828.19	0.0088	0.0029
Venus	51401-06-14 00:00 G	20495053.31	20495053.50	20495053.71	0.0088	0.0038
Venus	51402-01-25 12:58 G	20495278.86	20495279.04	20495279.24	0.0088	0.0046
Venus	51402-09-08 01:26 G	20495504.41	20495504.56	20495504.75	0.0088	0.0055
Venus	51403-04-21 14:10 G	20495729.95	20495730.09	20495730.26	0.0088	0.0063
Venus	51403-12-03 03:07 G	20495955.51	20495955.63	20495955.76	0.0088	0.0071
Venus	51404-07-15 15:22 G	20496181.07	20496181.14	20496181.25	0.0088	0.0080
Mars	51414-02-20 18:58 G	20499687.98	20499688.29	20499688.59	0.0088	0.0004
Mercury	51439-03-05 19:41 G	20508832.32	20508832.32	20508832.36	0.0088	0.0088
Mercury	51439-06-01 23:31 G	20508920.40	20508920.48	20508920.59	0.0088	0.0077
Mercury	51439-08-29 03:07 G	20509008.52	20509008.63	20509008.78	0.0088	0.0066
Mercury	51439-11-25 06:43 G	20509096.64	20509096.78	20509096.95	0.0088	0.0055
Mercury	51440-02-21 10:34 G	20509184.78	20509184.94	20509185.12	0.0088	0.0043
Mercury	51440-05-19 14:10 G	20509272.92	20509273.09	20509273.29	0.0088	0.0032
Mercury	51440-08-15 18:14 G	20509361.07	20509361.26	20509361.45	0.0088	0.0020
Mercury	51440-11-11 21:50 G	20509449.22	20509449.41	20509449.61	0.0088	0.0008
Mercury	51441-02-08 01:41 G	20509537.37	20509537.57	20509537.76	0.0088	0.0003
Mercury	51441-05-07 05:17 G	20509625.53	20509625.72	20509625.92	0.0088	0.0015
Mercury	51441-08-03 08:38 G	20509713.69	20509713.86	20509714.06	0.0088	0.0027
Mercury	51441-10-30 12:29 G	20509801.85	20509802.02	20509802.21	0.0088	0.0038
Mercury	51442-01-26 16:05 G	20509890.02	20509890.17	20509890.35	0.0088	0.0049
Mercury	51442-04-24 19:55 G	20509978.20	20509978.33	20509978.48	0.0088	0.0061
Mercury	51442-07-21 23:17 G	20510066.38	20510066.47	20510066.61	0.0088	0.0073
Mercury	51442-10-18 03:22 G	20510154.59	20510154.64	20510154.71	0.0089	0.0084
Jupiter	51452-02-27 15:22 G	20513574.12	20513574.14	20513574.30	0.0089	0.0088

Earth	51453-07-28 20:38 G	20514091.26	20514091.36	20514091.50	0.0089	0.0079
Moon	51453-07-28 21:50 G	20514091.29	20514091.41	20514091.57	0.0089	0.0075 *
Earth	51454-07-31 08:10 G	20514458.64	20514458.84	20514459.06	0.0089	0.0050
Moon	51454-07-31 07:41 G	20514458.65	20514458.82	20514459.03	0.0089	0.0055 *
Moon	51455-08-02 18:00 G	20514825.99	20514826.25	20514826.51	0.0089	0.0017
Earth	51455-08-02 19:26 G	20514826.07	20514826.31	20514826.57	0.0089	0.0022 *
Earth	51456-08-04 06:43 G	20515193.52	20515193.78	20515194.03	0.0089	0.0007
Moon	51456-08-04 08:53 G	20515193.63	20515193.87	20515194.12	0.0089	0.0004 *
Moon	51457-08-06 14:24 G	20515560.89	20515561.10	20515561.35	0.0089	0.0041
Earth	51457-08-06 17:46 G	20515561.01	20515561.24	20515561.48	0.0089	0.0036 *
Earth	51458-08-09 04:34 G	20515928.54	20515928.69	20515928.88	0.0089	0.0065
Moon	51458-08-09 08:38 G	20515928.68	20515928.86	20515929.05	0.0089	0.0060 *
Venus	51475-07-20 19:41 G	20522118.25	20522118.32	20522118.42	0.0090	0.0082
Venus	51476-03-02 09:22 G	20522343.77	20522343.89	20522344.02	0.0090	0.0073
Venus	51476-10-13 22:05 G	20522569.29	20522569.42	20522569.60	0.0090	0.0065
Venus	51477-05-27 11:46 G	20522794.83	20522794.99	20522795.18	0.0090	0.0055
Venus	51478-01-08 01:12 G	20523020.38	20523020.55	20523020.75	0.0090	0.0047
Venus	51478-08-21 14:38 G	20523245.92	20523246.11	20523246.32	0.0090	0.0038
Venus	51479-04-04 04:05 G	20523471.47	20523471.67	20523471.89	0.0090	0.0029
Venus	51479-11-15 17:31 G	20523697.02	20523697.23	20523697.45	0.0090	0.0019
Venus	51480-06-28 06:58 G	20523922.58	20523922.79	20523923.01	0.0090	0.0011
Venus	51481-02-08 20:24 G	20524148.13	20524148.35	20524148.57	0.0090	0.0001
Venus	51481-09-22 09:36 G	20524373.69	20524373.90	20524374.12	0.0090	0.0008
Venus	51482-05-05 22:48 G	20524599.24	20524599.45	20524599.67	0.0090	0.0017
Venus	51482-12-17 12:00 G	20524824.80	20524825.00	20524825.22	0.0090	0.0026
Venus	51483-07-31 01:26 G	20525050.37	20525050.56	20525050.78	0.0090	0.0035
Venus	51484-03-12 14:38 G	20525275.94	20525276.11	20525276.32	0.0090	0.0044
Venus	51484-10-24 03:50 G	20525501.51	20525501.66	20525501.86	0.0090	0.0053
Venus	51485-06-06 17:17 G	20525727.08	20525727.22	20525727.40	0.0090	0.0062
Venus	51486-01-18 06:58 G	20525952.66	20525952.79	20525952.93	0.0090	0.0070



Venus	51486-08-31 20:10 G	20526178.25	20526178.34	20526178.46	0.0090	0.0079
Venus	51487-04-14 09:22 G	20526403.87	20526403.89	20526403.95	0.0090	0.0088
Mars	51496-01-21 15:36 G	20529607.82	20529608.15	20529608.48	0.0090	0.0001
Mercury	51519-10-01 16:48 G	20538261.16	20538261.20	20538261.26	0.0089	0.0082
Mercury	51519-12-28 18:00 G	20538349.19	20538349.25	20538349.34	0.0089	0.0074
Mercury	51520-03-25 19:26 G	20538437.23	20538437.31	20538437.40	0.0089	0.0066
Mercury	51520-06-21 20:53 G	20538525.27	20538525.37	20538525.47	0.0089	0.0058
Mercury	51520-09-17 22:19 G	20538613.32	20538613.43	20538613.53	0.0089	0.0050
Mercury	51520-12-14 23:17 G	20538701.37	20538701.47	20538701.60	0.0089	0.0043
Mercury	51521-03-13 00:43 G	20538789.41	20538789.53	20538789.65	0.0089	0.0035
Mercury	51521-06-09 02:10 G	20538877.46	20538877.59	20538877.71	0.0089	0.0027
Mercury	51521-09-05 03:22 G	20538965.51	20538965.64	20538965.77	0.0089	0.0019
Mercury	51521-12-02 04:34 G	20539053.57	20539053.69	20539053.83	0.0089	0.0012
Mercury	51522-02-28 06:00 G	20539141.62	20539141.75	20539141.88	0.0089	0.0004
Mercury	51522-05-27 07:12 G	20539229.67	20539229.80	20539229.93	0.0089	0.0004
Mercury	51522-08-23 08:38 G	20539317.73	20539317.86	20539317.99	0.0089	0.0012
Mercury	51522-11-19 09:50 G	20539405.78	20539405.91	20539406.04	0.0089	0.0020
Mercury	51523-02-15 11:02 G	20539493.84	20539493.96	20539494.09	0.0089	0.0027
Mercury	51523-05-14 12:14 G	20539581.89	20539582.01	20539582.13	0.0089	0.0035
Mercury	51523-08-10 13:26 G	20539669.95	20539670.06	20539670.18	0.0089	0.0043
Mercury	51523-11-06 14:38 G	20539758.01	20539758.11	20539758.23	0.0089	0.0051
Mercury	51524-02-02 16:05 G	20539846.08	20539846.17	20539846.27	0.0089	0.0058
Mercury	51524-04-30 17:17 G	20539934.14	20539934.22	20539934.31	0.0089	0.0066
Mercury	51524-07-27 18:29 G	20540022.21	20540022.27	20540022.35	0.0089	0.0074
Mercury	51524-10-23 19:55 G	20540110.28	20540110.33	20540110.38	0.0089	0.0081
Earth	51535-01-27 23:31 G	20543858.34	20543858.48	20543858.65	0.0088	0.0070
Moon	51535-01-28 01:26 G	20543858.41	20543858.56	20543858.72	0.0088	0.0072 *
Earth	51536-01-30 11:31 G	20544225.77	20544225.98	20544226.23	0.0088	0.0042
Moon	51536-01-30 12:00 G	20544225.78	20544226.00	20544226.23	0.0088	0.0040 *
Moon	51537-01-31 22:34 G	20544593.18	20544593.44	20544593.72	0.0088	0.0014

Earth	51537-02-01 00:00 G	20544593.25	20544593.50	20544593.76	0.0088	0.0013	*
Earth	51538-02-03 11:46 G	20544960.75	20544960.99	20544961.26	0.0088	0.0017	
Moon	51538-02-03 13:55 G	20544960.84	20544961.08	20544961.33	0.0088	0.0019	*
Moon	51539-02-05 20:53 G	20545328.14	20545328.37	20545328.60	0.0088	0.0043	
Earth	51539-02-06 00:14 G	20545328.29	20545328.51	20545328.74	0.0088	0.0045	*
Earth	51540-02-08 12:00 G	20545695.87	20545696.00	20545696.16	0.0088	0.0073	
Moon	51540-02-08 15:36 G	20545696.03	20545696.15	20545696.29	0.0088	0.0076	*
Venus	51557-01-24 01:26 G	20551890.50	20551890.56	20551890.66	0.0088	0.0082	
Venus	51557-09-06 14:38 G	20552115.99	20552116.11	20552116.23	0.0088	0.0073	
Venus	51558-04-20 03:07 G	20552341.49	20552341.63	20552341.79	0.0088	0.0065	
Venus	51558-12-01 15:36 G	20552567.00	20552567.15	20552567.34	0.0088	0.0057	
Venus	51559-07-15 04:34 G	20552792.52	20552792.69	20552792.88	0.0088	0.0048	
Venus	51560-02-25 17:17 G	20553018.03	20553018.22	20553018.42	0.0088	0.0040	
Venus	51560-10-08 05:46 G	20553243.55	20553243.74	20553243.96	0.0088	0.0032	
Venus	51561-05-21 18:43 G	20553469.07	20553469.28	20553469.49	0.0088	0.0023	
Venus	51562-01-02 07:26 G	20553694.60	20553694.81	20553695.03	0.0088	0.0015	
Venus	51562-08-15 20:10 G	20553920.12	20553920.34	20553920.56	0.0088	0.0006	
Venus	51563-03-29 08:53 G	20554145.65	20554145.87	20554146.09	0.0088	0.0002	
Venus	51563-11-09 21:22 G	20554371.18	20554371.39	20554371.62	0.0088	0.0011	
Venus	51564-06-22 10:05 G	20554596.71	20554596.92	20554597.14	0.0088	0.0019	
Venus	51565-02-02 22:48 G	20554822.25	20554822.45	20554822.67	0.0088	0.0028	
Venus	51565-09-16 11:46 G	20555047.79	20555047.99	20555048.19	0.0088	0.0036	
Venus	51566-04-30 00:14 G	20555273.33	20555273.51	20555273.71	0.0088	0.0045	
Venus	51566-12-11 12:58 G	20555498.88	20555499.04	20555499.22	0.0088	0.0053	
Venus	51567-07-25 01:26 G	20555724.42	20555724.56	20555724.74	0.0088	0.0062	
Venus	51568-03-06 14:24 G	20555949.98	20555950.10	20555950.24	0.0088	0.0070	
Venus	51568-10-18 03:07 G	20556175.54	20556175.63	20556175.74	0.0088	0.0078	
Venus	51569-05-31 15:22 G	20556401.13	20556401.14	20556401.21	0.0088	0.0087	
Mars	51577-10-07 00:14 G	20559451.27	20559451.51	20559451.79	0.0088	0.0043	
Mars	51579-09-01 03:22 G	20560145.43	20560145.64	20560145.85	0.0088	0.0063	

Mercury	51603-12-01 18:29 G	20569003.22	20569003.27	20569003.36	0.0088	0.0083
Mercury	51604-02-27 22:34 G	20569091.33	20569091.44	20569091.56	0.0088	0.0071
Mercury	51604-05-26 01:55 G	20569179.45	20569179.58	20569179.74	0.0088	0.0060
Mercury	51604-08-22 05:31 G	20569267.58	20569267.73	20569267.91	0.0088	0.0049
Mercury	51604-11-18 09:36 G	20569355.72	20569355.90	20569356.08	0.0088	0.0037
Mercury	51605-02-14 13:12 G	20569443.87	20569444.05	20569444.24	0.0088	0.0025
Mercury	51605-05-13 16:48 G	20569532.01	20569532.20	20569532.40	0.0088	0.0014
Mercury	51605-08-09 20:38 G	20569620.16	20569620.36	20569620.56	0.0088	0.0003
Mercury	51605-11-06 00:14 G	20569708.32	20569708.51	20569708.71	0.0088	0.0009
Mercury	51606-02-02 03:50 G	20569796.48	20569796.66	20569796.86	0.0088	0.0021
Mercury	51606-05-01 07:26 G	20569884.64	20569884.81	20569885.01	0.0088	0.0033
Mercury	51606-07-28 11:17 G	20569972.81	20569972.97	20569973.15	0.0088	0.0044
Mercury	51606-10-24 15:07 G	20570060.98	20570061.13	20570061.29	0.0088	0.0055
Mercury	51607-01-20 18:43 G	20570149.16	20570149.28	20570149.42	0.0088	0.0067
Mercury	51607-04-18 22:05 G	20570237.35	20570237.42	20570237.54	0.0088	0.0079
Jupiter	51618-05-03 17:02 G	20574269.76	20574270.21	20574270.75	0.0089	0.0035
Moon	51618-07-31 17:31 G	20574359.06	20574359.23	20574359.41	0.0089	0.0066
Earth	51618-07-31 18:58 G	20574359.13	20574359.29	20574359.48	0.0089	0.0064 *
Earth	51619-08-03 06:00 G	20574726.53	20574726.75	20574727.00	0.0089	0.0036
Moon	51619-08-03 09:07 G	20574726.66	20574726.88	20574727.12	0.0089	0.0033 *
Moon	51620-08-04 14:10 G	20575093.84	20575094.09	20575094.35	0.0089	0.0010
Earth	51620-08-04 17:31 G	20575093.98	20575094.23	20575094.50	0.0089	0.0007 *
Earth	51621-08-07 04:48 G	20575461.45	20575461.70	20575461.95	0.0089	0.0022
Moon	51621-08-07 08:10 G	20575461.60	20575461.84	20575462.10	0.0089	0.0024 *
Moon	51622-08-09 12:14 G	20575828.82	20575829.01	20575829.24	0.0089	0.0049
Earth	51622-08-09 15:50 G	20575828.96	20575829.16	20575829.38	0.0089	0.0051 *
Earth	51623-08-12 02:38 G	20576196.52	20576196.61	20576196.74	0.0089	0.0080
Moon	51623-08-12 05:02 G	20576196.63	20576196.71	20576196.84	0.0089	0.0082 *
Venus	51639-10-23 07:12 G	20582112.72	20582112.80	20582112.89	0.0090	0.0082
Venus	51640-06-04 20:10 G	20582338.23	20582338.34	20582338.48	0.0090	0.0074

Venus	51641-01-16 09:36 G	20582563.76	20582563.90	20582564.07	0.0090	0.0065
Venus	51641-08-29 23:02 G	20582789.30	20582789.46	20582789.64	0.0090	0.0056
Venus	51642-04-12 12:29 G	20583014.84	20583015.02	20583015.21	0.0090	0.0047
Venus	51642-11-24 01:55 G	20583240.38	20583240.58	20583240.78	0.0090	0.0038
Venus	51643-07-07 15:07 G	20583465.94	20583466.13	20583466.35	0.0090	0.0030
Venus	51644-02-18 04:34 G	20583691.49	20583691.69	20583691.92	0.0090	0.0021
Venus	51644-09-30 18:00 G	20583917.04	20583917.25	20583917.48	0.0090	0.0012
Venus	51645-05-14 07:41 G	20584142.60	20584142.82	20584143.04	0.0090	0.0003
Venus	51645-12-25 20:53 G	20584368.15	20584368.37	20584368.59	0.0090	0.0007
Venus	51646-08-08 10:19 G	20584593.72	20584593.93	20584594.15	0.0090	0.0016
Venus	51647-03-21 23:31 G	20584819.28	20584819.48	20584819.70	0.0090	0.0025
Venus	51647-11-02 12:43 G	20585044.84	20585045.03	20585045.25	0.0090	0.0034
Venus	51648-06-15 01:55 G	20585270.41	20585270.58	20585270.79	0.0090	0.0043
Venus	51649-01-26 15:36 G	20585495.98	20585496.15	20585496.34	0.0090	0.0051
Venus	51649-09-09 04:48 G	20585721.55	20585721.70	20585721.88	0.0090	0.0060
Venus	51650-04-22 18:00 G	20585947.13	20585947.25	20585947.41	0.0090	0.0069
Venus	51650-12-04 07:12 G	20586172.71	20586172.80	20586172.93	0.0090	0.0078
Venus	51651-07-17 20:53 G	20586398.32	20586398.37	20586398.44	0.0090	0.0086
Mars	51659-09-05 17:31 G	20589369.96	20589370.23	20589370.53	0.0090	0.0045
Mars	51661-08-01 07:55 G	20590065.70	20590065.83	20590066.02	0.0090	0.0078
Mercury	51684-03-31 15:22 G	20598344.12	20598344.14	20598344.19	0.0089	0.0086
Mercury	51684-06-27 16:34 G	20598432.15	20598432.19	20598432.27	0.0089	0.0078
Mercury	51684-09-23 18:00 G	20598520.18	20598520.25	20598520.34	0.0089	0.0070
Mercury	51684-12-20 19:26 G	20598608.22	20598608.31	20598608.41	0.0089	0.0062
Mercury	51685-03-18 20:53 G	20598696.27	20598696.37	20598696.47	0.0089	0.0054
Mercury	51685-06-14 22:05 G	20598784.31	20598784.42	20598784.54	0.0089	0.0046
Mercury	51685-09-10 23:17 G	20598872.36	20598872.47	20598872.60	0.0089	0.0039
Mercury	51685-12-08 00:43 G	20598960.41	20598960.53	20598960.66	0.0089	0.0031
Mercury	51686-03-06 01:55 G	20599048.46	20599048.58	20599048.71	0.0089	0.0023
Mercury	51686-06-02 03:22 G	20599136.51	20599136.64	20599136.77	0.0089	0.0015

Mercury	51686-08-29 04:34 G	20599224.56	20599224.69	20599224.83	0.0089	0.0008
Mercury	51686-11-25 06:00 G	20599312.62	20599312.75	20599312.88	0.0089	0.0002
Mercury	51687-02-21 07:12 G	20599400.67	20599400.80	20599400.93	0.0089	0.0008
Mercury	51687-05-20 08:24 G	20599488.72	20599488.85	20599488.98	0.0089	0.0016
Mercury	51687-08-16 09:36 G	20599576.78	20599576.90	20599577.03	0.0089	0.0024
Mercury	51687-11-12 11:02 G	20599664.84	20599664.96	20599665.08	0.0089	0.0031
Mercury	51688-02-08 12:14 G	20599752.90	20599753.01	20599753.13	0.0089	0.0039
Mercury	51688-05-06 13:26 G	20599840.96	20599841.06	20599841.18	0.0089	0.0047
Mercury	51688-08-02 14:38 G	20599929.02	20599929.11	20599929.22	0.0089	0.0055
Mercury	51688-10-29 16:05 G	20600017.08	20600017.17	20600017.26	0.0089	0.0062
Mercury	51689-01-25 17:17 G	20600105.15	20600105.22	20600105.30	0.0089	0.0070
Mercury	51689-04-23 18:14 G	20600193.22	20600193.26	20600193.34	0.0089	0.0078
Mercury	51689-07-20 19:55 G	20600281.30	20600281.33	20600281.36	0.0089	0.0085
Earth	51699-01-27 09:22 G	20603758.82	20603758.89	20603758.98	0.0088	0.0084
Moon	51699-01-27 09:36 G	20603758.90	20603758.90	20603758.94	0.0088	0.0088 *
Moon	51700-01-29 19:26 G	20604126.11	20604126.31	20604126.55	0.0088	0.0051
Earth	51700-01-29 21:22 G	20604126.21	20604126.39	20604126.61	0.0088	0.0056 *
Earth	51701-02-01 09:22 G	20604493.66	20604493.89	20604494.15	0.0088	0.0027
Moon	51701-02-01 12:29 G	20604493.79	20604494.02	20604494.27	0.0088	0.0031 *
Moon	51702-02-03 18:29 G	20604861.01	20604861.27	20604861.54	0.0088	0.0007
Earth	51702-02-03 21:50 G	20604861.15	20604861.41	20604861.67	0.0088	0.0002 *
Earth	51703-02-06 09:36 G	20605228.67	20605228.90	20605229.16	0.0088	0.0031
Moon	51703-02-06 13:26 G	20605228.82	20605229.06	20605229.32	0.0088	0.0027 *
Moon	51704-02-08 18:29 G	20605596.11	20605596.27	20605596.46	0.0088	0.0064
Earth	51704-02-08 21:50 G	20605596.23	20605596.41	20605596.61	0.0088	0.0060 *
Moon	51705-02-10 12:43 G	20605963.97	20605964.03	20605964.12	0.0088	0.0085
Venus	51721-04-28 12:58 G	20611884.98	20611885.04	20611885.14	0.0088	0.0082
Venus	51721-12-10 02:10 G	20612110.48	20612110.59	20612110.72	0.0088	0.0073
Venus	51722-07-23 14:53 G	20612335.98	20612336.12	20612336.27	0.0088	0.0065
Venus	51723-03-06 03:22 G	20612561.49	20612561.64	20612561.82	0.0088	0.0057

Venus	51723-10-17 15:50 G	20612787.00	20612787.16	20612787.37	0.0088	0.0049
Venus	51724-05-30 05:02 G	20613012.52	20613012.71	20613012.91	0.0088	0.0040
Venus	51725-01-10 17:46 G	20613238.04	20613238.24	20613238.45	0.0088	0.0032
Venus	51725-08-24 06:14 G	20613463.56	20613463.76	20613463.99	0.0088	0.0024
Venus	51726-04-06 19:12 G	20613689.08	20613689.30	20613689.52	0.0088	0.0015
Venus	51726-11-18 07:41 G	20613914.61	20613914.82	20613915.05	0.0088	0.0007
Venus	51727-07-01 20:24 G	20614140.13	20614140.35	20614140.57	0.0088	0.0002
Venus	51728-02-12 09:07 G	20614365.67	20614365.88	20614366.10	0.0088	0.0010
Venus	51728-09-24 21:36 G	20614591.20	20614591.40	20614591.63	0.0088	0.0019
Venus	51729-05-08 10:19 G	20614816.73	20614816.93	20614817.15	0.0088	0.0027
Venus	51729-12-19 23:02 G	20615042.27	20615042.46	20615042.67	0.0088	0.0035
Venus	51730-08-02 11:31 G	20615267.81	20615267.98	20615268.19	0.0088	0.0044
Venus	51731-03-16 00:14 G	20615493.35	20615493.51	20615493.70	0.0088	0.0052
Venus	51731-10-27 12:58 G	20615718.89	20615719.04	20615719.21	0.0088	0.0060
Venus	51732-06-09 01:26 G	20615944.45	20615944.56	20615944.72	0.0088	0.0069
Venus	51733-01-20 14:24 G	20616170.01	20616170.10	20616170.22	0.0088	0.0077
Venus	51733-09-03 03:07 G	20616395.59	20616395.63	20616395.70	0.0088	0.0085
Mars	51741-05-23 08:24 G	20619214.78	20619214.85	20619215.00	0.0088	0.0082
Mars	51743-04-17 09:50 G	20619908.62	20619908.91	20619909.20	0.0088	0.0024
Mercury	51768-06-01 13:55 G	20629086.07	20629086.08	20629086.10	0.0088	0.0088
Mercury	51768-08-28 17:31 G	20629174.14	20629174.23	20629174.33	0.0088	0.0077
Mercury	51768-11-24 20:53 G	20629262.26	20629262.37	20629262.52	0.0088	0.0066
Mercury	51769-02-21 00:29 G	20629350.39	20629350.52	20629350.70	0.0088	0.0055
Mercury	51769-05-20 04:34 G	20629438.52	20629438.69	20629438.87	0.0088	0.0043
Mercury	51769-08-16 08:10 G	20629526.66	20629526.84	20629527.03	0.0088	0.0031
Mercury	51769-11-12 12:00 G	20629614.81	20629615.00	20629615.19	0.0088	0.0020
Mercury	51770-02-08 15:36 G	20629702.96	20629703.15	20629703.35	0.0088	0.0009
Mercury	51770-05-07 19:26 G	20629791.11	20629791.31	20629791.51	0.0088	0.0003
Mercury	51770-08-03 23:02 G	20629879.27	20629879.46	20629879.66	0.0088	0.0015
Mercury	51770-10-31 02:38 G	20629967.43	20629967.61	20629967.81	0.0088	0.0026

Mercury	51771-01-27 06:14 G	20630055.59	20630055.76	20630055.95	0.0088	0.0038
Mercury	51771-04-25 09:50 G	20630143.76	20630143.91	20630144.09	0.0088	0.0050
Mercury	51771-07-22 13:41 G	20630231.94	20630232.07	20630232.22	0.0088	0.0061
Mercury	51771-10-18 17:17 G	20630320.12	20630320.22	20630320.35	0.0088	0.0072
Mercury	51772-01-14 21:07 G	20630408.33	20630408.38	20630408.45	0.0088	0.0084
Earth	51782-08-01 06:00 G	20634259.64	20634259.75	20634259.88	0.0089	0.0078
Moon	51782-08-01 08:38 G	20634259.75	20634259.86	20634260.02	0.0089	0.0075 *
Moon	51783-08-03 13:41 G	20634626.88	20634627.07	20634627.29	0.0089	0.0053
Earth	51783-08-03 17:31 G	20634627.03	20634627.23	20634627.45	0.0089	0.0049 *
Earth	51784-08-05 04:48 G	20634994.45	20634994.70	20634994.95	0.0089	0.0020
Moon	51784-08-05 08:10 G	20634994.59	20634994.84	20634995.10	0.0089	0.0017 *
Moon	51785-08-07 13:12 G	20635361.80	20635362.05	20635362.31	0.0089	0.0005
Earth	51785-08-07 16:05 G	20635361.92	20635362.17	20635362.43	0.0089	0.0009 *
Earth	51786-08-10 03:07 G	20635729.42	20635729.63	20635729.88	0.0089	0.0038
Moon	51786-08-10 05:31 G	20635729.52	20635729.73	20635729.98	0.0089	0.0042 *
Moon	51787-08-12 13:41 G	20636096.91	20636097.07	20636097.26	0.0089	0.0064
Earth	51787-08-12 14:10 G	20636096.95	20636097.09	20636097.28	0.0089	0.0067 *
Venus	51804-01-26 18:00 G	20642107.19	20642107.25	20642107.36	0.0090	0.0083
Venus	51804-09-08 07:26 G	20642332.70	20642332.81	20642332.95	0.0090	0.0074
Venus	51805-04-21 20:53 G	20642558.23	20642558.37	20642558.53	0.0090	0.0065
Venus	51805-12-03 09:50 G	20642783.76	20642783.91	20642784.10	0.0090	0.0057
Venus	51806-07-16 23:31 G	20643009.31	20643009.48	20643009.68	0.0090	0.0048
Venus	51807-02-27 12:58 G	20643234.85	20643235.04	20643235.25	0.0090	0.0039
Venus	51807-10-11 02:24 G	20643460.40	20643460.60	20643460.81	0.0090	0.0030
Venus	51808-05-23 15:50 G	20643685.95	20643686.16	20643686.37	0.0090	0.0021
Venus	51809-01-04 05:02 G	20643911.50	20643911.71	20643911.94	0.0090	0.0013
Venus	51809-08-17 18:43 G	20644137.06	20644137.28	20644137.50	0.0090	0.0003
Venus	51810-03-31 08:10 G	20644362.62	20644362.84	20644363.06	0.0090	0.0006
Venus	51810-11-11 21:22 G	20644588.18	20644588.39	20644588.61	0.0090	0.0015
Venus	51811-06-25 10:34 G	20644813.74	20644813.94	20644814.17	0.0090	0.0024

Venus	51812-02-06 00:00 G	20645039.31	20645039.50	20645039.72	0.0090	0.0033
Venus	51812-09-18 13:41 G	20645264.88	20645265.07	20645265.27	0.0090	0.0041
Venus	51813-05-02 02:38 G	20645490.44	20645490.61	20645490.81	0.0090	0.0050
Venus	51813-12-13 15:50 G	20645716.02	20645716.16	20645716.35	0.0090	0.0059
Venus	51814-07-27 05:46 G	20645941.60	20645941.74	20645941.89	0.0090	0.0067
Venus	51815-03-09 18:43 G	20646167.18	20646167.28	20646167.41	0.0090	0.0076
Venus	51815-10-21 07:55 G	20646392.78	20646392.83	20646392.92	0.0090	0.0085
Mars	51825-03-17 12:00 G	20649827.71	20649828.00	20649828.32	0.0090	0.0033
Mercury	51848-12-28 15:22 G	20658515.10	20658515.14	20658515.20	0.0089	0.0082
Mercury	51849-03-26 16:34 G	20658603.13	20658603.19	20658603.28	0.0089	0.0074
Mercury	51849-06-22 18:00 G	20658691.17	20658691.25	20658691.35	0.0089	0.0066
Mercury	51849-09-18 19:26 G	20658779.22	20658779.31	20658779.41	0.0089	0.0058
Mercury	51849-12-15 20:53 G	20658867.26	20658867.37	20658867.48	0.0089	0.0050
Mercury	51850-03-13 22:05 G	20658955.31	20658955.42	20658955.54	0.0089	0.0042
Mercury	51850-06-09 23:17 G	20659043.36	20659043.47	20659043.60	0.0089	0.0035
Mercury	51850-09-06 00:43 G	20659131.41	20659131.53	20659131.66	0.0089	0.0027
Mercury	51850-12-03 01:55 G	20659219.46	20659219.58	20659219.71	0.0089	0.0019
Mercury	51851-03-01 03:22 G	20659307.51	20659307.64	20659307.77	0.0089	0.0011
Mercury	51851-05-28 04:34 G	20659395.56	20659395.69	20659395.83	0.0089	0.0004
Mercury	51851-08-24 06:00 G	20659483.62	20659483.75	20659483.88	0.0089	0.0005
Mercury	51851-11-20 07:12 G	20659571.67	20659571.80	20659571.93	0.0089	0.0012
Mercury	51852-02-16 08:24 G	20659659.73	20659659.85	20659659.98	0.0089	0.0020
Mercury	51852-05-14 09:36 G	20659747.78	20659747.90	20659748.03	0.0089	0.0028
Mercury	51852-08-10 10:48 G	20659835.84	20659835.95	20659836.08	0.0089	0.0036
Mercury	51852-11-06 12:14 G	20659923.90	20659924.01	20659924.13	0.0089	0.0043
Mercury	51853-02-02 13:26 G	20660011.96	20660012.06	20660012.17	0.0089	0.0051
Mercury	51853-05-01 14:38 G	20660100.02	20660100.11	20660100.22	0.0089	0.0059
Mercury	51853-07-28 16:05 G	20660188.09	20660188.17	20660188.26	0.0089	0.0066
Mercury	51853-10-24 17:17 G	20660276.15	20660276.22	20660276.30	0.0089	0.0074
Mercury	51854-01-20 18:29 G	20660364.23	20660364.27	20660364.33	0.0089	0.0082



Earth	51864-01-31 07:41 G	20664026.67	20664026.82	20664026.99	0.0088	0.0069
Moon	51864-01-31 10:48 G	20664026.81	20664026.95	20664027.12	0.0088	0.0070 *
Moon	51865-02-01 16:05 G	20664393.96	20664394.17	20664394.42	0.0088	0.0040
Earth	51865-02-01 19:41 G	20664394.11	20664394.32	20664394.57	0.0088	0.0041 *
Earth	51866-02-04 07:55 G	20664761.58	20664761.83	20664762.09	0.0088	0.0011
Moon	51866-02-04 11:31 G	20664761.72	20664761.98	20664762.24	0.0088	0.0012 *
Moon	51867-02-06 17:02 G	20665128.96	20665129.21	20665129.46	0.0088	0.0019
Earth	51867-02-06 20:10 G	20665129.09	20665129.34	20665129.60	0.0088	0.0018 *
Earth	51868-02-09 07:55 G	20665496.62	20665496.83	20665497.06	0.0088	0.0046
Moon	51868-02-09 09:50 G	20665496.70	20665496.91	20665497.16	0.0088	0.0046 *
Moon	51869-02-10 18:29 G	20665864.16	20665864.27	20665864.41	0.0088	0.0077
Earth	51869-02-10 19:26 G	20665864.20	20665864.31	20665864.47	0.0088	0.0075 *
Venus	51885-08-01 00:29 G	20671879.47	20671879.52	20671879.63	0.0088	0.0082
Venus	51886-03-14 13:55 G	20672104.96	20672105.08	20672105.20	0.0088	0.0073
Venus	51886-10-26 02:24 G	20672330.46	20672330.60	20672330.76	0.0088	0.0065
Venus	51887-06-08 15:07 G	20672555.97	20672556.13	20672556.31	0.0088	0.0057
Venus	51888-01-20 03:50 G	20672781.50	20672781.66	20672781.86	0.0088	0.0049
Venus	51888-09-01 16:34 G	20673007.01	20673007.19	20673007.41	0.0088	0.0041
Venus	51889-04-15 05:31 G	20673232.53	20673232.73	20673232.94	0.0088	0.0032
Venus	51889-11-26 18:14 G	20673458.05	20673458.26	20673458.48	0.0088	0.0024
Venus	51890-07-10 06:58 G	20673683.58	20673683.79	20673684.01	0.0088	0.0016
Venus	51891-02-20 19:55 G	20673909.11	20673909.33	20673909.55	0.0088	0.0007
Venus	51891-10-04 08:24 G	20674134.63	20674134.85	20674135.08	0.0088	0.0002
Venus	51892-05-16 21:07 G	20674360.16	20674360.38	20674360.60	0.0088	0.0009
Venus	51892-12-28 09:50 G	20674585.70	20674585.91	20674586.13	0.0088	0.0018
Venus	51893-08-10 22:19 G	20674811.23	20674811.43	20674811.65	0.0088	0.0026
Venus	51894-03-24 11:02 G	20675036.76	20675036.96	20675037.17	0.0088	0.0034
Venus	51894-11-04 23:17 G	20675262.30	20675262.47	20675262.68	0.0088	0.0043
Venus	51895-06-18 12:00 G	20675487.84	20675488.00	20675488.20	0.0088	0.0051
Venus	51896-01-30 00:58 G	20675713.39	20675713.54	20675713.72	0.0088	0.0059

Venus	51896-09-11 13:41 G	20675938.94	20675939.07	20675939.22	0.0088	0.0067
Venus	51897-04-25 02:24 G	20676164.50	20676164.60	20676164.72	0.0088	0.0075
Venus	51897-12-06 14:38 G	20676390.07	20676390.11	20676390.20	0.0088	0.0084
Mars	51906-12-02 18:00 G	20679671.97	20679672.25	20679672.56	0.0088	0.0015
Mercury	51933-02-28 12:43 G	20689256.97	20689257.03	20689257.12	0.0088	0.0082
Mercury	51933-05-27 16:19 G	20689345.08	20689345.18	20689345.31	0.0088	0.0071
Mercury	51933-08-23 19:55 G	20689433.20	20689433.33	20689433.49	0.0088	0.0059
Mercury	51933-11-19 23:46 G	20689521.34	20689521.49	20689521.66	0.0088	0.0048
Mercury	51934-02-16 03:22 G	20689609.47	20689609.64	20689609.83	0.0088	0.0037
Mercury	51934-05-15 06:58 G	20689697.62	20689697.79	20689697.99	0.0088	0.0026
Mercury	51934-08-11 11:02 G	20689785.76	20689785.96	20689786.15	0.0088	0.0014
Mercury	51934-11-07 14:38 G	20689873.91	20689874.11	20689874.31	0.0088	0.0002
Mercury	51935-02-03 18:14 G	20689962.07	20689962.26	20689962.46	0.0088	0.0010
Mercury	51935-05-02 22:05 G	20690050.23	20690050.42	20690050.61	0.0088	0.0021
Mercury	51935-07-30 01:26 G	20690138.39	20690138.56	20690138.76	0.0088	0.0033
Mercury	51935-10-26 05:17 G	20690226.56	20690226.72	20690226.90	0.0088	0.0044
Mercury	51936-01-22 08:38 G	20690314.73	20690314.86	20690315.03	0.0088	0.0056
Mercury	51936-04-19 12:43 G	20690402.91	20690403.03	20690403.16	0.0088	0.0067
Mercury	51936-07-16 16:05 G	20690491.10	20690491.17	20690491.28	0.0089	0.0079
Moon	51946-08-02 14:10 G	20694160.07	20694160.09	20694160.12	0.0089	0.0088
Earth	51947-08-05 04:19 G	20694527.51	20694527.68	20694527.87	0.0089	0.0063
Moon	51947-08-05 07:55 G	20694527.67	20694527.83	20694528.01	0.0089	0.0066 *
Moon	51948-08-06 13:12 G	20694894.83	20694895.05	20694895.30	0.0089	0.0031
Earth	51948-08-06 15:50 G	20694894.93	20694895.16	20694895.40	0.0089	0.0034 *
Earth	51949-08-09 03:07 G	20695262.38	20695262.63	20695262.89	0.0089	0.0005
Moon	51949-08-09 04:48 G	20695262.44	20695262.70	20695262.97	0.0089	0.0008 *
Moon	51950-08-11 13:26 G	20695629.84	20695630.06	20695630.31	0.0089	0.0027
Earth	51950-08-11 14:10 G	20695629.86	20695630.09	20695630.35	0.0089	0.0024 *
Moon	51951-08-14 00:29 G	20695997.31	20695997.52	20695997.75	0.0089	0.0049
Earth	51951-08-14 01:26 G	20695997.37	20695997.56	20695997.78	0.0089	0.0053 *

Earth	51952-08-15 12:29 G	20696364.95	20696365.02	20696365.15	0.0089	0.0082
Moon	51952-08-15 14:24 G	20696365.06	20696365.10	20696365.20	0.0089	0.0086 *
Venus	51968-04-30 06:14 G	20702101.67	20702101.76	20702101.84	0.0090	0.0082
Venus	51968-12-11 18:58 G	20702327.19	20702327.29	20702327.43	0.0090	0.0074
Venus	51969-07-25 08:38 G	20702552.72	20702552.86	20702553.02	0.0090	0.0065
Venus	51970-03-07 21:36 G	20702778.25	20702778.40	20702778.59	0.0090	0.0057
Venus	51970-10-19 11:02 G	20703003.79	20703003.96	20703004.16	0.0090	0.0048
Venus	51971-06-02 00:14 G	20703229.33	20703229.51	20703229.72	0.0090	0.0040
Venus	51972-01-13 13:41 G	20703454.88	20703455.07	20703455.29	0.0090	0.0031
Venus	51972-08-26 03:07 G	20703680.43	20703680.63	20703680.85	0.0090	0.0022
Venus	51973-04-08 16:34 G	20703905.98	20703906.19	20703906.41	0.0090	0.0013
Venus	51973-11-20 06:00 G	20704131.53	20704131.75	20704131.97	0.0090	0.0004
Venus	51974-07-03 19:26 G	20704357.09	20704357.31	20704357.53	0.0090	0.0005
Venus	51975-02-14 08:38 G	20704582.65	20704582.86	20704583.08	0.0090	0.0014
Venus	51975-09-27 21:50 G	20704808.21	20704808.41	20704808.64	0.0090	0.0023
Venus	51976-05-10 11:31 G	20705033.77	20705033.98	20705034.19	0.0090	0.0031
Venus	51976-12-22 00:43 G	20705259.34	20705259.53	20705259.73	0.0090	0.0040
Venus	51977-08-04 13:55 G	20705484.92	20705485.08	20705485.29	0.0090	0.0049
Venus	51978-03-18 03:50 G	20705710.49	20705710.66	20705710.83	0.0090	0.0057
Venus	51978-10-29 16:48 G	20705936.06	20705936.20	20705936.36	0.0090	0.0066
Venus	51979-06-12 06:00 G	20706161.65	20706161.75	20706161.89	0.0090	0.0075
Venus	51980-01-23 19:26 G	20706387.24	20706387.31	20706387.41	0.0090	0.0083
Mars	51988-10-30 12:29 G	20709589.70	20709590.02	20709590.35	0.0090	0.0014

# 53RD MILLENNIUM CE

This is a list of transits visible from Neptune in the 53rd millennium

CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	52013-06-29 14:10	G	20718598.06	20718598.09	20718598.13	0.0089	0.0085	
Mercury	52013-09-25 15:36	G	20718686.09	20718686.15	20718686.21	0.0089	0.0077	
Mercury	52013-12-22 16:34	G	20718774.12	20718774.19	20718774.28	0.0089	0.0070	
Mercury	52014-03-20 18:00	G	20718862.16	20718862.25	20718862.35	0.0089	0.0062	
Mercury	52014-06-16 19:26	G	20718950.21	20718950.31	20718950.42	0.0089	0.0054	
Mercury	52014-09-12 20:38	G	20719038.26	20719038.36	20719038.48	0.0089	0.0046	
Mercury	52014-12-09 22:05	G	20719126.30	20719126.42	20719126.54	0.0089	0.0038	
Mercury	52015-03-07 23:17	G	20719214.35	20719214.47	20719214.60	0.0089	0.0031	
Mercury	52015-06-04 00:43	G	20719302.40	20719302.53	20719302.66	0.0089	0.0023	
Mercury	52015-08-31 01:55	G	20719390.45	20719390.58	20719390.71	0.0089	0.0015	
Mercury	52015-11-27 03:22	G	20719478.51	20719478.64	20719478.77	0.0089	0.0007	
Mercury	52016-02-23 04:34	G	20719566.56	20719566.69	20719566.82	0.0089	0.0001	
Mercury	52016-05-21 05:46	G	20719654.61	20719654.74	20719654.88	0.0089	0.0009	
Mercury	52016-08-17 07:12	G	20719742.67	20719742.80	20719742.93	0.0089	0.0016	
Mercury	52016-11-13 08:24	G	20719830.73	20719830.85	20719830.98	0.0089	0.0024	
Mercury	52017-02-09 09:36	G	20719918.78	20719918.90	20719919.03	0.0089	0.0032	
Mercury	52017-05-08 10:48	G	20720006.84	20720006.95	20720007.08	0.0089	0.0040	
Mercury	52017-08-04 12:14	G	20720094.90	20720095.01	20720095.12	0.0089	0.0047	
Mercury	52017-10-31 13:26	G	20720182.96	20720183.06	20720183.17	0.0089	0.0055	
Mercury	52018-01-27 14:38	G	20720271.03	20720271.11	20720271.21	0.0089	0.0063	
Mercury	52018-04-25 15:50	G	20720359.09	20720359.16	20720359.25	0.0089	0.0071	
Mercury	52018-07-22 17:17	G	20720447.16	20720447.22	20720447.28	0.0089	0.0078	
Mercury	52018-10-18 18:29	G	20720535.25	20720535.27	20720535.31	0.0089	0.0086	
Jupiter	52027-02-27 18:14	G	20723589.00	20723589.26	20723589.58	0.0089	0.0075	
Moon	52028-01-31 13:41	G	20723927.06	20723927.07	20723927.14	0.0088	0.0088	

Earth	52028-01-31 17:31 G	20723927.16	20723927.23	20723927.34	0.0088	0.0083
Earth	52029-02-02 05:46 G	20724294.55	20724294.74	20724294.96	0.0088	0.0054
Moon	52029-02-02 09:22 G	20724294.68	20724294.89	20724295.11	0.0088	0.0049 *
Moon	52030-02-04 15:36 G	20724661.92	20724662.15	20724662.40	0.0088	0.0029
Earth	52030-02-04 18:14 G	20724662.02	20724662.26	20724662.52	0.0088	0.0025 *
Earth	52031-02-07 06:29 G	20725029.51	20725029.77	20725030.03	0.0088	0.0004
Moon	52031-02-07 08:24 G	20725029.59	20725029.85	20725030.12	0.0088	0.0009 *
Moon	52032-02-09 18:00 G	20725397.02	20725397.25	20725397.50	0.0088	0.0029
Earth	52032-02-09 18:00 G	20725397.03	20725397.25	20725397.51	0.0088	0.0034 *
Moon	52033-02-11 05:31 G	20725764.56	20725764.73	20725764.92	0.0088	0.0066
Earth	52033-02-11 06:29 G	20725764.59	20725764.77	20725764.96	0.0088	0.0062 *
Moon	52034-02-13 19:41 G	20726132.29	20726132.32	20726132.40	0.0088	0.0087
Venus	52049-11-03 12:14 G	20731873.95	20731874.01	20731874.11	0.0088	0.0082
Venus	52050-06-17 00:58 G	20732099.45	20732099.54	20732099.68	0.0088	0.0074
Venus	52051-01-28 14:10 G	20732324.95	20732325.09	20732325.25	0.0088	0.0065
Venus	52051-09-11 02:53 G	20732550.46	20732550.62	20732550.80	0.0088	0.0057
Venus	52052-04-23 15:36 G	20732775.98	20732776.15	20732776.34	0.0088	0.0049
Venus	52052-12-05 04:19 G	20733001.50	20733001.68	20733001.89	0.0088	0.0041
Venus	52053-07-18 17:02 G	20733227.02	20733227.21	20733227.43	0.0088	0.0033
Venus	52054-03-01 06:00 G	20733452.54	20733452.75	20733452.97	0.0088	0.0024
Venus	52054-10-12 18:43 G	20733678.07	20733678.28	20733678.50	0.0088	0.0016
Venus	52055-05-26 07:26 G	20733903.59	20733903.81	20733904.03	0.0088	0.0008
Venus	52056-01-06 20:24 G	20734129.13	20734129.35	20734129.57	0.0088	0.0001
Venus	52056-08-19 08:53 G	20734354.66	20734354.87	20734355.10	0.0088	0.0009
Venus	52057-04-01 21:36 G	20734580.19	20734580.40	20734580.62	0.0088	0.0017
Venus	52057-11-13 10:19 G	20734805.72	20734805.93	20734806.14	0.0088	0.0025
Venus	52058-06-26 23:02 G	20735031.25	20735031.46	20735031.66	0.0088	0.0033
Venus	52059-02-07 11:17 G	20735256.80	20735256.97	20735257.18	0.0088	0.0042
Venus	52059-09-21 00:00 G	20735482.34	20735482.50	20735482.70	0.0088	0.0050
Venus	52060-05-03 12:43 G	20735707.88	20735708.03	20735708.21	0.0088	0.0058

Venus	52060-12-15 01:12 G	20735933.43	20735933.55	20735933.71	0.0088	0.0066
Venus	52061-07-28 13:55 G	20736158.98	20736159.08	20736159.22	0.0088	0.0074
Venus	52062-03-11 02:38 G	20736384.55	20736384.61	20736384.70	0.0088	0.0082
Mars	52070-07-18 02:10 G	20739435.37	20739435.59	20739435.85	0.0088	0.0053
Mars	52072-06-11 03:22 G	20740129.42	20740129.64	20740129.90	0.0088	0.0054
Mercury	52097-08-29 08:10 G	20749339.81	20749339.84	20749339.88	0.0088	0.0087
Mercury	52097-11-25 11:46 G	20749427.90	20749427.99	20749428.10	0.0088	0.0076
Mercury	52098-02-21 15:07 G	20749516.02	20749516.13	20749516.28	0.0088	0.0065
Mercury	52098-05-20 19:12 G	20749604.15	20749604.30	20749604.46	0.0088	0.0053
Mercury	52098-08-16 22:48 G	20749692.28	20749692.45	20749692.63	0.0088	0.0042
Mercury	52098-11-13 02:24 G	20749780.42	20749780.60	20749780.79	0.0088	0.0030
Mercury	52099-02-09 06:14 G	20749868.57	20749868.76	20749868.95	0.0088	0.0019
Mercury	52099-05-08 09:50 G	20749956.72	20749956.91	20749957.11	0.0088	0.0007
Mercury	52099-08-04 13:26 G	20750044.87	20750045.06	20750045.26	0.0088	0.0004
Mercury	52099-10-31 17:02 G	20750133.02	20750133.21	20750133.41	0.0088	0.0016
Mercury	52100-01-27 20:53 G	20750221.18	20750221.37	20750221.56	0.0088	0.0027
Mercury	52100-04-26 00:14 G	20750309.35	20750309.51	20750309.70	0.0088	0.0039
Mercury	52100-07-23 04:05 G	20750397.52	20750397.67	20750397.84	0.0088	0.0050
Mercury	52100-10-19 07:41 G	20750485.69	20750485.82	20750485.97	0.0088	0.0062
Mercury	52101-01-15 11:31 G	20750573.88	20750573.98	20750574.10	0.0088	0.0073
Mercury	52101-04-13 14:53 G	20750662.09	20750662.12	20750662.20	0.0088	0.0085
Moon	52111-08-05 13:41 G	20754427.95	20754428.07	20754428.22	0.0089	0.0074
Earth	52111-08-05 15:50 G	20754428.06	20754428.16	20754428.31	0.0089	0.0077 *
Earth	52112-08-07 03:07 G	20754795.43	20754795.63	20754795.86	0.0089	0.0048
Moon	52112-08-07 04:19 G	20754795.47	20754795.68	20754795.91	0.0089	0.0050 *
Earth	52113-08-09 14:24 G	20755162.86	20755163.10	20755163.36	0.0089	0.0019
Moon	52113-08-09 14:53 G	20755162.89	20755163.12	20755163.37	0.0089	0.0017 *
Moon	52114-08-12 00:43 G	20755530.27	20755530.53	20755530.79	0.0089	0.0007
Earth	52114-08-12 01:55 G	20755530.33	20755530.58	20755530.83	0.0089	0.0010 *
Earth	52115-08-14 12:58 G	20755897.82	20755898.04	20755898.28	0.0089	0.0039

Moon	52115-08-14 15:22 G	20755897.94	20755898.14	20755898.38	0.0089	0.0042 *
Moon	52116-08-15 20:38 G	20756265.21	20756265.36	20756265.56	0.0089	0.0066
Earth	52116-08-16 00:14 G	20756265.36	20756265.51	20756265.68	0.0089	0.0068 *
Venus	52132-08-02 17:31 G	20762096.15	20762096.23	20762096.32	0.0089	0.0082
Venus	52133-03-16 06:29 G	20762321.66	20762321.77	20762321.91	0.0089	0.0074
Venus	52133-10-27 19:41 G	20762547.19	20762547.32	20762547.49	0.0090	0.0066
Venus	52134-06-10 09:07 G	20762772.73	20762772.88	20762773.06	0.0090	0.0057
Venus	52135-01-21 22:48 G	20762998.27	20762998.45	20762998.64	0.0090	0.0048
Venus	52135-09-04 11:46 G	20763223.81	20763223.99	20763224.20	0.0090	0.0040
Venus	52136-04-17 01:12 G	20763449.35	20763449.55	20763449.76	0.0090	0.0031
Venus	52136-11-28 14:24 G	20763674.90	20763675.10	20763675.32	0.0090	0.0023
Venus	52137-07-12 04:05 G	20763900.45	20763900.67	20763900.89	0.0090	0.0014
Venus	52138-02-22 17:31 G	20764126.01	20764126.23	20764126.45	0.0090	0.0005
Venus	52138-10-06 06:43 G	20764351.56	20764351.78	20764352.00	0.0090	0.0004
Venus	52139-05-19 19:55 G	20764577.12	20764577.33	20764577.55	0.0090	0.0013
Venus	52139-12-31 09:07 G	20764802.68	20764802.88	20764803.11	0.0090	0.0022
Venus	52140-08-12 22:48 G	20765028.25	20765028.45	20765028.66	0.0090	0.0030
Venus	52141-03-26 12:00 G	20765253.82	20765254.00	20765254.21	0.0090	0.0039
Venus	52141-11-07 01:12 G	20765479.38	20765479.55	20765479.76	0.0090	0.0048
Venus	52142-06-20 14:53 G	20765704.96	20765705.12	20765705.30	0.0090	0.0056
Venus	52143-02-01 04:05 G	20765930.54	20765930.67	20765930.84	0.0090	0.0065
Venus	52143-09-14 17:46 G	20766156.12	20766156.24	20766156.37	0.0090	0.0073
Venus	52144-04-27 06:43 G	20766381.72	20766381.78	20766381.89	0.0090	0.0082
Mars	52152-06-14 13:26 G	20769351.84	20769352.06	20769352.32	0.0090	0.0061
Mars	52154-05-11 07:26 G	20770047.60	20770047.81	20770048.04	0.0090	0.0065
Mercury	52177-12-29 12:58 G	20778681.04	20778681.04	20778681.04	0.0089	0.0089
Mercury	52178-03-27 14:10 G	20778769.04	20778769.09	20778769.15	0.0089	0.0081
Mercury	52178-06-23 15:22 G	20778857.08	20778857.14	20778857.22	0.0089	0.0073
Mercury	52178-09-19 16:48 G	20778945.12	20778945.20	20778945.29	0.0089	0.0065
Mercury	52178-12-16 18:00 G	20779033.16	20779033.25	20779033.36	0.0089	0.0058

Mercury	52179-03-14 19:12 G	20779121.20	20779121.30	20779121.42	0.0089	0.0050
Mercury	52179-06-10 20:38 G	20779209.25	20779209.36	20779209.48	0.0089	0.0042
Mercury	52179-09-06 22:05 G	20779297.30	20779297.42	20779297.54	0.0089	0.0034
Mercury	52179-12-03 23:31 G	20779385.35	20779385.48	20779385.60	0.0089	0.0026
Mercury	52180-03-01 00:43 G	20779473.40	20779473.53	20779473.66	0.0089	0.0018
Mercury	52180-05-28 01:55 G	20779561.45	20779561.58	20779561.71	0.0089	0.0011
Mercury	52180-08-24 03:22 G	20779649.51	20779649.64	20779649.77	0.0089	0.0003
Mercury	52180-11-20 04:34 G	20779737.56	20779737.69	20779737.82	0.0089	0.0005
Mercury	52181-02-16 05:46 G	20779825.62	20779825.74	20779825.88	0.0089	0.0013
Mercury	52181-05-15 06:58 G	20779913.67	20779913.79	20779913.93	0.0089	0.0021
Mercury	52181-08-11 08:24 G	20780001.73	20780001.85	20780001.98	0.0089	0.0028
Mercury	52181-11-07 09:36 G	20780089.79	20780089.90	20780090.03	0.0089	0.0036
Mercury	52182-02-03 10:48 G	20780177.85	20780177.95	20780178.07	0.0089	0.0044
Mercury	52182-05-02 12:00 G	20780265.91	20780266.00	20780266.12	0.0089	0.0052
Mercury	52182-07-29 13:41 G	20780353.97	20780354.07	20780354.16	0.0089	0.0059
Mercury	52182-10-25 14:38 G	20780442.03	20780442.11	20780442.20	0.0089	0.0067
Mercury	52183-01-21 15:50 G	20780530.10	20780530.16	20780530.24	0.0089	0.0075
Mercury	52183-04-19 17:02 G	20780618.18	20780618.21	20780618.27	0.0089	0.0083
Moon	52193-02-02 13:41 G	20784194.92	20784195.07	20784195.24	0.0088	0.0067
Earth	52193-02-02 15:36 G	20784195.00	20784195.15	20784195.34	0.0088	0.0068 *
Jupiter	52193-04-27 21:22 G	20784278.95	20784279.39	20784279.92	0.0088	0.0041
Earth	52194-02-05 04:05 G	20784562.45	20784562.67	20784562.91	0.0088	0.0039
Moon	52194-02-05 04:48 G	20784562.47	20784562.70	20784562.96	0.0088	0.0040 *
Earth	52195-02-07 16:19 G	20784929.93	20784930.18	20784930.44	0.0088	0.0010
Moon	52195-02-07 16:19 G	20784929.93	20784930.18	20784930.43	0.0088	0.0010 *
Moon	52196-02-10 02:53 G	20785297.36	20785297.62	20785297.89	0.0088	0.0019
Earth	52196-02-10 04:19 G	20785297.44	20785297.68	20785297.94	0.0088	0.0020 *
Earth	52197-02-11 16:05 G	20785664.98	20785665.17	20785665.41	0.0088	0.0049
Moon	52197-02-11 18:43 G	20785665.09	20785665.28	20785665.51	0.0088	0.0050 *
Moon	52198-02-14 00:58 G	20786032.44	20786032.54	20786032.69	0.0088	0.0078



Earth	52198-02-14 04:05 G	20786032.57	20786032.67	20786032.82	0.0088	0.0078 *
Venus	52214-02-07 00:43 G	20791868.45	20791868.53	20791868.62	0.0088	0.0081
Venus	52214-09-20 13:26 G	20792093.94	20792094.06	20792094.18	0.0088	0.0073
Venus	52215-05-04 02:10 G	20792319.45	20792319.59	20792319.74	0.0088	0.0065
Venus	52215-12-15 14:53 G	20792544.96	20792545.12	20792545.29	0.0088	0.0057
Venus	52216-07-28 03:36 G	20792770.47	20792770.65	20792770.84	0.0088	0.0049
Venus	52217-03-10 16:05 G	20792995.99	20792996.17	20792996.38	0.0088	0.0041
Venus	52217-10-22 04:48 G	20793221.51	20793221.70	20793221.92	0.0088	0.0033
Venus	52218-06-04 17:31 G	20793447.03	20793447.23	20793447.46	0.0088	0.0025
Venus	52219-01-16 06:29 G	20793672.57	20793672.77	20793673.00	0.0088	0.0017
Venus	52219-08-29 19:26 G	20793898.09	20793898.31	20793898.53	0.0088	0.0008
Venus	52220-04-11 08:10 G	20794123.62	20794123.84	20794124.06	0.0088	0.0001
Venus	52220-11-22 20:53 G	20794349.15	20794349.37	20794349.59	0.0088	0.0008
Venus	52221-07-06 09:36 G	20794574.68	20794574.90	20794575.12	0.0088	0.0016
Venus	52222-02-16 22:05 G	20794800.22	20794800.42	20794800.64	0.0088	0.0025
Venus	52222-09-30 10:48 G	20795025.76	20795025.95	20795026.17	0.0088	0.0033
Venus	52223-05-13 23:17 G	20795251.29	20795251.47	20795251.68	0.0088	0.0041
Venus	52223-12-25 12:00 G	20795476.83	20795477.00	20795477.20	0.0088	0.0049
Venus	52224-08-07 00:43 G	20795702.38	20795702.53	20795702.71	0.0088	0.0057
Venus	52225-03-20 13:12 G	20795927.92	20795928.05	20795928.22	0.0088	0.0065
Venus	52225-11-01 01:55 G	20796153.47	20796153.58	20796153.72	0.0088	0.0073
Venus	52226-06-14 14:24 G	20796379.04	20796379.10	20796379.21	0.0088	0.0081
Mars	52236-01-27 11:17 G	20799892.69	20799892.97	20799893.28	0.0088	0.0015
Mercury	52262-05-28 06:58 G	20809510.73	20809510.79	20809510.89	0.0088	0.0081
Mercury	52262-08-24 10:34 G	20809598.84	20809598.94	20809599.08	0.0088	0.0070
Mercury	52262-11-20 14:10 G	20809686.96	20809687.09	20809687.26	0.0088	0.0059
Mercury	52263-02-16 18:00 G	20809775.09	20809775.25	20809775.43	0.0088	0.0047
Mercury	52263-05-15 21:36 G	20809863.23	20809863.40	20809863.59	0.0088	0.0036
Mercury	52263-08-12 01:12 G	20809951.37	20809951.55	20809951.75	0.0088	0.0025
Mercury	52263-11-08 05:02 G	20810039.52	20810039.71	20810039.91	0.0088	0.0013

Mercury	52264-02-04 08:53 G	20810127.67	20810127.87	20810128.06	0.0088	0.0002
Mercury	52264-05-02 12:14 G	20810215.82	20810216.01	20810216.22	0.0088	0.0011
Mercury	52264-07-29 16:05 G	20810303.98	20810304.17	20810304.36	0.0088	0.0022
Mercury	52264-10-25 19:26 G	20810392.14	20810392.31	20810392.51	0.0088	0.0034
Mercury	52265-01-21 23:17 G	20810480.31	20810480.47	20810480.65	0.0088	0.0045
Mercury	52265-04-20 03:07 G	20810568.48	20810568.63	20810568.78	0.0089	0.0056
Mercury	52265-07-17 06:29 G	20810656.66	20810656.77	20810656.91	0.0089	0.0068
Mercury	52265-10-13 10:19 G	20810744.85	20810744.93	20810745.03	0.0089	0.0079
Moon	52275-08-06 03:36 G	20814328.62	20814328.65	20814328.74	0.0089	0.0087
Earth	52276-08-07 14:10 G	20814695.93	20814696.09	20814696.30	0.0089	0.0062
Moon	52276-08-07 15:07 G	20814695.98	20814696.13	20814696.31	0.0089	0.0066 *
Moon	52277-08-09 23:31 G	20815063.24	20815063.48	20815063.74	0.0089	0.0028
Earth	52277-08-10 01:41 G	20815063.35	20815063.57	20815063.82	0.0089	0.0033 *
Earth	52278-08-12 12:58 G	20815430.79	20815431.04	20815431.30	0.0089	0.0004
Moon	52278-08-12 15:36 G	20815430.90	20815431.15	20815431.40	0.0089	0.0007 *
Moon	52279-08-14 20:24 G	20815798.12	20815798.35	20815798.61	0.0089	0.0030
Earth	52279-08-15 00:00 G	20815798.27	20815798.50	20815798.76	0.0089	0.0026 *
Earth	52280-08-16 11:02 G	20816165.78	20816165.96	20816166.18	0.0089	0.0055
Moon	52280-08-16 14:53 G	20816165.92	20816166.12	20816166.34	0.0089	0.0051 *
Moon	52281-08-18 19:12 G	20816533.27	20816533.30	20816533.36	0.0089	0.0087
Earth	52281-08-18 22:05 G	20816533.37	20816533.42	20816533.54	0.0089	0.0084
Venus	52296-11-05 04:48 G	20822090.62	20822090.70	20822090.79	0.0089	0.0082
Venus	52297-06-18 17:46 G	20822316.14	20822316.24	20822316.38	0.0089	0.0074
Venus	52298-01-30 06:58 G	20822541.67	20822541.79	20822541.97	0.0090	0.0066
Venus	52298-09-12 20:38 G	20822767.20	20822767.36	20822767.54	0.0090	0.0057
Venus	52299-04-26 09:50 G	20822992.74	20822992.91	20822993.11	0.0090	0.0049
Venus	52299-12-07 23:17 G	20823218.28	20823218.47	20823218.67	0.0090	0.0040
Venus	52300-07-21 12:29 G	20823443.83	20823444.02	20823444.24	0.0090	0.0032
Venus	52301-03-04 02:10 G	20823669.38	20823669.59	20823669.80	0.0090	0.0023
Venus	52301-10-15 15:22 G	20823894.93	20823895.14	20823895.36	0.0090	0.0014

Venus	52302-05-29 04:48 G	20824120.48	20824120.70	20824120.92	0.0090	0.0006
Venus	52303-01-09 18:00 G	20824346.03	20824346.25	20824346.47	0.0090	0.0003
Venus	52303-08-23 07:26 G	20824571.59	20824571.81	20824572.03	0.0090	0.0012
Venus	52304-04-04 20:24 G	20824797.15	20824797.35	20824797.58	0.0090	0.0021
Venus	52304-11-16 09:50 G	20825022.71	20825022.91	20825023.13	0.0090	0.0029
Venus	52305-06-29 23:02 G	20825248.28	20825248.46	20825248.68	0.0090	0.0038
Venus	52306-02-10 12:43 G	20825473.85	20825474.03	20825474.22	0.0090	0.0046
Venus	52306-09-24 01:41 G	20825699.42	20825699.57	20825699.77	0.0090	0.0055
Venus	52307-05-07 15:22 G	20825924.99	20825925.14	20825925.30	0.0090	0.0063
Venus	52307-12-19 04:19 G	20826150.57	20826150.68	20826150.84	0.0090	0.0072
Venus	52308-07-31 18:14 G	20826376.17	20826376.26	20826376.37	0.0090	0.0080
Venus	52309-03-14 07:12 G	20826601.79	20826601.80	20826601.86	0.0090	0.0089
Mars	52317-12-25 08:38 G	20829809.54	20829809.86	20829810.18	0.0090	0.0018
Mercury	52342-09-27 12:43 G	20838852.00	20838852.03	20838852.07	0.0089	0.0085
Mercury	52342-12-24 14:10 G	20838940.03	20838940.09	20838940.16	0.0089	0.0077
Mercury	52343-03-22 15:22 G	20839028.07	20839028.14	20839028.23	0.0089	0.0069
Mercury	52343-06-18 16:34 G	20839116.11	20839116.19	20839116.29	0.0089	0.0062
Mercury	52343-09-14 18:00 G	20839204.15	20839204.25	20839204.36	0.0089	0.0054
Mercury	52343-12-11 19:12 G	20839292.20	20839292.30	20839292.42	0.0089	0.0046
Mercury	52344-03-08 20:38 G	20839380.24	20839380.36	20839380.48	0.0089	0.0038
Mercury	52344-06-04 22:05 G	20839468.29	20839468.42	20839468.54	0.0089	0.0030
Mercury	52344-08-31 23:17 G	20839556.34	20839556.47	20839556.60	0.0089	0.0022
Mercury	52344-11-28 00:29 G	20839644.40	20839644.52	20839644.66	0.0089	0.0015
Mercury	52345-02-24 01:55 G	20839732.45	20839732.58	20839732.71	0.0089	0.0007
Mercury	52345-05-23 03:07 G	20839820.50	20839820.63	20839820.77	0.0089	0.0002
Mercury	52345-08-19 04:34 G	20839908.56	20839908.69	20839908.82	0.0089	0.0009
Mercury	52345-11-15 05:46 G	20839996.61	20839996.74	20839996.87	0.0089	0.0017
Mercury	52346-02-11 06:58 G	20840084.67	20840084.79	20840084.92	0.0089	0.0025
Mercury	52346-05-10 08:24 G	20840172.73	20840172.85	20840172.97	0.0089	0.0032
Mercury	52346-08-06 09:36 G	20840260.79	20840260.90	20840261.02	0.0089	0.0040

Mercury	52346-11-02 10:48 G	20840348.85	20840348.95	20840349.07	0.0089	0.0048
Mercury	52347-01-29 12:00 G	20840436.91	20840437.00	20840437.11	0.0089	0.0056
Mercury	52347-04-27 13:26 G	20840524.97	20840525.06	20840525.15	0.0089	0.0063
Mercury	52347-07-24 14:38 G	20840613.04	20840613.11	20840613.19	0.0089	0.0071
Mercury	52347-10-20 15:50 G	20840701.11	20840701.16	20840701.23	0.0089	0.0079
Mercury	52348-01-16 17:17 G	20840789.20	20840789.22	20840789.25	0.0089	0.0086
Earth	52357-02-04 01:26 G	20844095.48	20844095.56	20844095.68	0.0088	0.0082
Moon	52357-02-04 01:55 G	20844095.54	20844095.58	20844095.67	0.0088	0.0086 *
Earth	52358-02-06 13:41 G	20844462.88	20844463.07	20844463.30	0.0088	0.0053
Moon	52358-02-06 14:53 G	20844462.93	20844463.12	20844463.35	0.0088	0.0049 *
Moon	52359-02-09 00:14 G	20844830.26	20844830.51	20844830.77	0.0088	0.0027
Earth	52359-02-09 02:10 G	20844830.35	20844830.59	20844830.85	0.0088	0.0024 *
Earth	52360-02-11 14:38 G	20845197.85	20845198.11	20845198.37	0.0088	0.0006
Moon	52360-02-11 17:17 G	20845197.97	20845198.22	20845198.48	0.0088	0.0011 *
Moon	52361-02-12 23:02 G	20845565.22	20845565.46	20845565.71	0.0088	0.0031
Earth	52361-02-13 02:53 G	20845565.38	20845565.62	20845565.86	0.0088	0.0035 *
Earth	52362-02-15 14:38 G	20845932.94	20845933.11	20845933.30	0.0088	0.0064
Moon	52362-02-15 17:46 G	20845933.10	20845933.24	20845933.43	0.0088	0.0069 *
Moon	52363-02-17 23:17 G	20846300.45	20846300.47	20846300.50	0.0088	0.0088
Venus	52378-05-12 12:00 G	20851862.93	20851863.00	20851863.10	0.0088	0.0081
Venus	52378-12-24 00:58 G	20852088.43	20852088.54	20852088.67	0.0088	0.0073
Venus	52379-08-06 13:41 G	20852313.93	20852314.07	20852314.23	0.0088	0.0065
Venus	52380-03-19 02:24 G	20852539.44	20852539.60	20852539.77	0.0088	0.0057
Venus	52380-10-30 15:07 G	20852764.95	20852765.13	20852765.32	0.0088	0.0049
Venus	52381-06-13 03:50 G	20852990.47	20852990.66	20852990.86	0.0088	0.0041
Venus	52382-01-24 16:34 G	20853215.99	20853216.19	20853216.40	0.0088	0.0033
Venus	52382-09-07 05:17 G	20853441.52	20853441.72	20853441.94	0.0088	0.0025
Venus	52383-04-20 18:00 G	20853667.04	20853667.25	20853667.47	0.0088	0.0017
Venus	52383-12-02 06:58 G	20853892.57	20853892.79	20853893.01	0.0088	0.0009
Venus	52384-07-14 19:41 G	20854118.10	20854118.32	20854118.54	0.0088	0.0001

Venus	52385-02-25 08:24 G	20854343.63	20854343.85	20854344.07	0.0088	0.0007
Venus	52385-10-08 21:07 G	20854569.17	20854569.38	20854569.60	0.0088	0.0016
Venus	52386-05-22 09:36 G	20854794.70	20854794.90	20854795.13	0.0088	0.0024
Venus	52387-01-02 22:34 G	20855020.24	20855020.44	20855020.65	0.0088	0.0032
Venus	52387-08-16 11:02 G	20855245.78	20855245.96	20855246.17	0.0088	0.0040
Venus	52388-03-28 23:46 G	20855471.32	20855471.49	20855471.69	0.0088	0.0048
Venus	52388-11-09 12:29 G	20855696.86	20855697.02	20855697.20	0.0088	0.0056
Venus	52389-06-23 00:58 G	20855922.41	20855922.54	20855922.71	0.0088	0.0064
Venus	52390-02-03 13:41 G	20856147.97	20856148.07	20856148.22	0.0088	0.0072
Venus	52390-09-17 02:24 G	20856373.53	20856373.60	20856373.71	0.0088	0.0080
Venus	52391-04-30 15:22 G	20856599.13	20856599.14	20856599.17	0.0088	0.0087
Mars	52399-09-12 22:34 G	20859656.16	20859656.44	20859656.73	0.0088	0.0025
Mars	52401-08-06 19:55 G	20860350.26	20860350.33	20860350.46	0.0088	0.0083
Mercury	52426-11-27 02:24 G	20869593.57	20869593.60	20869593.65	0.0088	0.0086
Mercury	52427-02-23 06:00 G	20869681.66	20869681.75	20869681.86	0.0088	0.0075
Mercury	52427-05-22 09:22 G	20869769.78	20869769.89	20869770.05	0.0088	0.0064
Mercury	52427-08-18 13:26 G	20869857.91	20869858.06	20869858.22	0.0088	0.0052
Mercury	52427-11-14 17:02 G	20869946.04	20869946.21	20869946.39	0.0088	0.0041
Mercury	52428-02-10 20:38 G	20870034.18	20870034.36	20870034.55	0.0088	0.0029
Mercury	52428-05-09 00:29 G	20870122.33	20870122.52	20870122.71	0.0088	0.0018
Mercury	52428-08-05 04:05 G	20870210.47	20870210.67	20870210.87	0.0088	0.0007
Mercury	52428-11-01 07:41 G	20870298.63	20870298.82	20870299.02	0.0088	0.0005
Mercury	52429-01-28 11:17 G	20870386.78	20870386.97	20870387.17	0.0088	0.0016
Mercury	52429-04-26 14:53 G	20870474.94	20870475.12	20870475.31	0.0088	0.0028
Mercury	52429-07-23 18:29 G	20870563.10	20870563.27	20870563.46	0.0088	0.0039
Mercury	52429-10-19 22:05 G	20870651.27	20870651.42	20870651.59	0.0088	0.0051
Mercury	52430-01-16 01:41 G	20870739.45	20870739.57	20870739.73	0.0089	0.0062
Mercury	52430-04-14 05:31 G	20870827.63	20870827.73	20870827.85	0.0089	0.0074
Mercury	52430-07-11 08:53 G	20870915.84	20870915.87	20870915.95	0.0089	0.0086
Moon	52440-08-07 23:17 G	20874596.35	20874596.47	20874596.63	0.0089	0.0074

Earth	52440-08-08 01:26 G	20874596.46	20874596.56	20874596.72	0.0089	0.0076	*
Earth	52441-08-10 12:29 G	20874963.83	20874964.02	20874964.26	0.0089	0.0047	
Moon	52441-08-10 15:50 G	20874963.97	20874964.16	20874964.40	0.0089	0.0048	*
Moon	52442-08-12 20:53 G	20875331.12	20875331.37	20875331.62	0.0089	0.0016	
Earth	52442-08-13 00:00 G	20875331.26	20875331.50	20875331.77	0.0089	0.0018	*
Earth	52443-08-15 11:17 G	20875698.72	20875698.97	20875699.23	0.0089	0.0012	
Moon	52443-08-15 15:07 G	20875698.87	20875699.13	20875699.39	0.0089	0.0009	*
Moon	52444-08-16 19:41 G	20876066.11	20876066.32	20876066.55	0.0089	0.0042	
Earth	52444-08-16 22:05 G	20876066.21	20876066.42	20876066.67	0.0089	0.0041	*
Earth	52445-08-19 09:07 G	20876433.75	20876433.88	20876434.06	0.0089	0.0070	
Moon	52445-08-19 11:17 G	20876433.82	20876433.97	20876434.16	0.0089	0.0068	*
Venus	52461-02-07 16:05 G	20882085.08	20882085.17	20882085.25	0.0089	0.0082	
Venus	52461-09-21 05:02 G	20882310.60	20882310.71	20882310.84	0.0089	0.0074	
Venus	52462-05-04 18:14 G	20882536.13	20882536.26	20882536.43	0.0089	0.0066	
Venus	52462-12-16 07:55 G	20882761.67	20882761.83	20882762.00	0.0089	0.0057	
Venus	52463-07-29 21:07 G	20882987.21	20882987.38	20882987.58	0.0089	0.0049	
Venus	52464-03-11 10:34 G	20883212.76	20883212.94	20883213.15	0.0090	0.0040	
Venus	52464-10-23 00:00 G	20883438.30	20883438.50	20883438.71	0.0090	0.0032	
Venus	52465-06-05 13:12 G	20883663.85	20883664.05	20883664.28	0.0090	0.0024	
Venus	52466-01-17 02:38 G	20883889.40	20883889.61	20883889.84	0.0090	0.0015	
Venus	52466-08-30 16:05 G	20884114.96	20884115.17	20884115.40	0.0090	0.0007	
Venus	52467-04-13 05:31 G	20884340.51	20884340.73	20884340.95	0.0090	0.0002	
Venus	52467-11-24 18:43 G	20884566.07	20884566.28	20884566.50	0.0090	0.0011	
Venus	52468-07-07 07:55 G	20884791.63	20884791.83	20884792.06	0.0090	0.0020	
Venus	52469-02-17 21:22 G	20885017.19	20885017.39	20885017.61	0.0090	0.0028	
Venus	52469-10-01 10:34 G	20885242.75	20885242.94	20885243.15	0.0090	0.0037	
Venus	52470-05-14 23:46 G	20885468.31	20885468.49	20885468.69	0.0090	0.0045	
Venus	52470-12-26 12:58 G	20885693.88	20885694.04	20885694.24	0.0090	0.0054	
Venus	52471-08-09 02:38 G	20885919.46	20885919.61	20885919.78	0.0090	0.0062	
Venus	52472-03-21 16:05 G	20886145.04	20886145.17	20886145.31	0.0090	0.0070	

Venus	52472-11-02 05:02 G	20886370.63	20886370.71	20886370.84	0.0090	0.0079
Venus	52473-06-15 18:29 G	20886596.24	20886596.27	20886596.34	0.0090	0.0087
Mars	52481-08-08 06:43 G	20889571.48	20889571.78	20889572.11	0.0090	0.0030
Mercury	52507-03-29 11:17 G	20898934.97	20898934.97	20898934.99	0.0089	0.0089
Mercury	52507-06-25 12:43 G	20899022.98	20899023.03	20899023.09	0.0089	0.0081
Mercury	52507-09-21 13:55 G	20899111.02	20899111.08	20899111.16	0.0089	0.0073
Mercury	52507-12-18 15:22 G	20899199.06	20899199.14	20899199.23	0.0089	0.0065
Mercury	52508-03-15 16:48 G	20899287.10	20899287.20	20899287.30	0.0089	0.0057
Mercury	52508-06-11 17:46 G	20899375.14	20899375.24	20899375.36	0.0089	0.0050
Mercury	52508-09-07 19:12 G	20899463.19	20899463.30	20899463.42	0.0089	0.0042
Mercury	52508-12-04 20:38 G	20899551.24	20899551.36	20899551.48	0.0089	0.0034
Mercury	52509-03-02 21:50 G	20899639.29	20899639.41	20899639.54	0.0089	0.0026
Mercury	52509-05-29 23:17 G	20899727.34	20899727.47	20899727.60	0.0089	0.0018
Mercury	52509-08-26 00:29 G	20899815.39	20899815.52	20899815.65	0.0089	0.0011
Mercury	52509-11-22 01:55 G	20899903.45	20899903.58	20899903.71	0.0089	0.0003
Mercury	52510-02-18 03:07 G	20899991.50	20899991.63	20899991.76	0.0089	0.0005
Mercury	52510-05-17 04:19 G	20900079.55	20900079.68	20900079.82	0.0089	0.0013
Mercury	52510-08-13 05:46 G	20900167.61	20900167.74	20900167.87	0.0089	0.0021
Mercury	52510-11-09 06:58 G	20900255.67	20900255.79	20900255.92	0.0089	0.0028
Mercury	52511-02-05 08:10 G	20900343.73	20900343.84	20900343.97	0.0089	0.0036
Mercury	52511-05-04 09:22 G	20900431.79	20900431.89	20900432.01	0.0089	0.0044
Mercury	52511-07-31 10:48 G	20900519.85	20900519.95	20900520.06	0.0089	0.0052
Mercury	52511-10-27 12:00 G	20900607.91	20900608.00	20900608.10	0.0089	0.0060
Mercury	52512-01-23 13:26 G	20900695.98	20900696.06	20900696.14	0.0089	0.0067
Mercury	52512-04-20 14:24 G	20900784.04	20900784.10	20900784.18	0.0089	0.0075
Mercury	52512-07-17 15:36 G	20900872.12	20900872.15	20900872.21	0.0089	0.0083
Moon	52522-02-06 20:24 G	20904363.18	20904363.35	20904363.55	0.0088	0.0064
Earth	52522-02-06 23:17 G	20904363.32	20904363.47	20904363.66	0.0088	0.0067 *
Earth	52523-02-09 11:17 G	20904730.75	20904730.97	20904731.22	0.0088	0.0038
Moon	52523-02-09 14:38 G	20904730.89	20904731.11	20904731.35	0.0088	0.0040 *

Moon	52524-02-11 20:10 G	20905098.08	20905098.34	20905098.60	0.0088	0.0007
Earth	52524-02-11 23:46 G	20905098.24	20905098.49	20905098.76	0.0088	0.0009 *
Earth	52525-02-13 12:00 G	20905465.75	20905466.00	20905466.26	0.0088	0.0021
Moon	52525-02-13 15:36 G	20905465.89	20905466.15	20905466.41	0.0088	0.0019 *
Moon	52526-02-15 20:53 G	20905833.19	20905833.37	20905833.60	0.0088	0.0052
Earth	52526-02-16 00:00 G	20905833.30	20905833.50	20905833.72	0.0088	0.0050 *
Earth	52527-02-18 12:14 G	20906200.90	20906201.01	20906201.13	0.0088	0.0079
Moon	52527-02-18 14:24 G	20906200.99	20906201.10	20906201.24	0.0088	0.0078 *
Venus	52542-08-14 23:46 G	20911857.43	20911857.49	20911857.59	0.0088	0.0081
Venus	52543-03-28 12:29 G	20912082.92	20912083.02	20912083.16	0.0088	0.0073
Venus	52543-11-09 01:12 G	20912308.42	20912308.55	20912308.71	0.0088	0.0065
Venus	52544-06-21 14:10 G	20912533.93	20912534.09	20912534.26	0.0088	0.0057
Venus	52545-02-02 02:53 G	20912759.45	20912759.62	20912759.81	0.0088	0.0049
Venus	52545-09-15 15:22 G	20912984.96	20912985.14	20912985.35	0.0088	0.0042
Venus	52546-04-29 04:05 G	20913210.48	20913210.67	20913210.89	0.0088	0.0034
Venus	52546-12-10 16:48 G	20913436.00	20913436.20	20913436.42	0.0088	0.0026
Venus	52547-07-24 05:31 G	20913661.52	20913661.73	20913661.96	0.0088	0.0018
Venus	52548-03-05 18:14 G	20913887.05	20913887.26	20913887.49	0.0088	0.0010
Venus	52548-10-17 07:12 G	20914112.58	20914112.80	20914113.02	0.0088	0.0002
Venus	52549-05-30 19:41 G	20914338.11	20914338.32	20914338.55	0.0088	0.0007
Venus	52550-01-11 08:38 G	20914563.64	20914563.86	20914564.08	0.0088	0.0015
Venus	52550-08-24 21:07 G	20914789.18	20914789.38	20914789.61	0.0088	0.0023
Venus	52551-04-07 09:50 G	20915014.71	20915014.91	20915015.13	0.0088	0.0031
Venus	52551-11-18 22:34 G	20915240.25	20915240.44	20915240.65	0.0088	0.0039
Venus	52552-07-01 11:02 G	20915465.79	20915465.96	20915466.16	0.0088	0.0047
Venus	52553-02-12 00:00 G	20915691.34	20915691.50	20915691.69	0.0088	0.0055
Venus	52553-09-25 12:29 G	20915916.89	20915917.02	20915917.20	0.0088	0.0063
Venus	52554-05-09 01:41 G	20916142.44	20916142.57	20916142.70	0.0088	0.0070
Venus	52554-12-20 14:10 G	20916368.00	20916368.09	20916368.20	0.0088	0.0078
Venus	52555-08-03 02:38 G	20916593.58	20916593.61	20916593.67	0.0088	0.0086



Mars	52563-04-29 09:07 G	20919419.69	20919419.88	20919420.09	0.0088	0.0065
Mars	52565-03-23 06:43 G	20920113.54	20920113.78	20920114.07	0.0088	0.0043
Mercury	52591-08-25 00:58 G	20929764.48	20929764.54	20929764.63	0.0088	0.0080
Mercury	52591-11-21 04:19 G	20929852.58	20929852.68	20929852.83	0.0088	0.0070
Mercury	52592-02-17 08:24 G	20929940.71	20929940.85	20929941.00	0.0088	0.0058
Mercury	52592-05-15 12:00 G	20930028.84	20930029.00	20930029.17	0.0088	0.0047
Mercury	52592-08-11 15:36 G	20930116.98	20930117.15	20930117.34	0.0088	0.0035
Mercury	52592-11-07 19:26 G	20930205.12	20930205.31	20930205.50	0.0088	0.0024
Mercury	52593-02-03 23:02 G	20930293.27	20930293.46	20930293.66	0.0088	0.0012
Mercury	52593-05-03 02:38 G	20930381.42	20930381.61	20930381.81	0.0088	0.0002
Mercury	52593-07-30 06:14 G	20930469.57	20930469.76	20930469.96	0.0088	0.0011
Mercury	52593-10-26 10:05 G	20930557.73	20930557.92	20930558.11	0.0088	0.0022
Mercury	52594-01-22 13:26 G	20930645.89	20930646.06	20930646.25	0.0088	0.0034
Mercury	52594-04-20 17:17 G	20930734.06	20930734.22	20930734.39	0.0088	0.0045
Mercury	52594-07-17 20:38 G	20930822.23	20930822.36	20930822.53	0.0088	0.0057
Mercury	52594-10-14 00:29 G	20930910.41	20930910.52	20930910.66	0.0089	0.0068
Mercury	52595-01-10 03:50 G	20930998.60	20930998.66	20930998.77	0.0089	0.0080
Moon	52604-08-09 15:36 G	20934497.10	20934497.15	20934497.24	0.0089	0.0085
Moon	52605-08-11 20:24 G	20934864.18	20934864.35	20934864.52	0.0089	0.0065
Earth	52605-08-11 23:31 G	20934864.32	20934864.48	20934864.69	0.0089	0.0061 *
Earth	52606-08-14 10:48 G	20935231.73	20935231.95	20935232.21	0.0089	0.0032
Moon	52606-08-14 14:10 G	20935231.85	20935232.09	20935232.35	0.0089	0.0027 *
Moon	52607-08-16 19:41 G	20935599.07	20935599.32	20935599.57	0.0089	0.0007
Earth	52607-08-16 22:19 G	20935599.18	20935599.43	20935599.69	0.0089	0.0003 *
Earth	52608-08-18 09:22 G	20935966.66	20935966.89	20935967.14	0.0089	0.0027
Moon	52608-08-18 11:02 G	20935966.71	20935966.96	20935967.21	0.0089	0.0031 *
Moon	52609-08-20 20:24 G	20936334.16	20936334.35	20936334.56	0.0089	0.0052
Earth	52609-08-20 20:24 G	20936334.17	20936334.35	20936334.56	0.0089	0.0056 *
Earth	52610-08-23 07:41 G	20936701.76	20936701.82	20936701.90	0.0089	0.0085
Venus	52625-05-14 02:10 G	20942079.53	20942079.59	20942079.70	0.0089	0.0083

Venus	52625-12-25 15:50 G	20942305.05	20942305.16	20942305.29	0.0089	0.0074
Venus	52626-08-08 05:17 G	20942530.58	20942530.72	20942530.88	0.0089	0.0066
Venus	52627-03-21 18:29 G	20942756.12	20942756.27	20942756.45	0.0089	0.0058
Venus	52627-11-02 08:10 G	20942981.66	20942981.84	20942982.02	0.0089	0.0049
Venus	52628-06-14 21:22 G	20943207.21	20943207.39	20943207.60	0.0090	0.0041
Venus	52629-01-26 10:34 G	20943432.75	20943432.94	20943433.16	0.0090	0.0033
Venus	52629-09-09 00:14 G	20943658.30	20943658.51	20943658.73	0.0090	0.0024
Venus	52630-04-22 13:26 G	20943883.85	20943884.06	20943884.29	0.0090	0.0016
Venus	52630-12-04 03:07 G	20944109.41	20944109.63	20944109.85	0.0090	0.0007
Venus	52631-07-17 16:34 G	20944334.97	20944335.19	20944335.41	0.0090	0.0002
Venus	52632-02-28 05:46 G	20944560.52	20944560.74	20944560.96	0.0090	0.0010
Venus	52632-10-10 18:58 G	20944786.08	20944786.29	20944786.51	0.0090	0.0019
Venus	52633-05-24 08:10 G	20945011.64	20945011.84	20945012.06	0.0090	0.0027
Venus	52634-01-04 21:22 G	20945237.20	20945237.39	20945237.61	0.0090	0.0036
Venus	52634-08-18 10:48 G	20945462.77	20945462.95	20945463.16	0.0090	0.0044
Venus	52635-04-01 00:14 G	20945688.34	20945688.51	20945688.70	0.0090	0.0052
Venus	52635-11-12 13:12 G	20945913.91	20945914.05	20945914.23	0.0090	0.0061
Venus	52636-06-25 02:38 G	20946139.49	20946139.61	20946139.77	0.0090	0.0069
Venus	52637-02-05 16:05 G	20946365.08	20946365.17	20946365.30	0.0090	0.0077
Venus	52637-09-19 05:46 G	20946590.68	20946590.74	20946590.81	0.0090	0.0085
Mars	52645-03-24 04:05 G	20949333.55	20949333.67	20949333.87	0.0090	0.0079
Mars	52647-02-18 02:10 G	20950029.32	20950029.59	20950029.86	0.0090	0.0050
Mercury	52671-12-25 11:02 G	20959105.94	20959105.96	20959106.01	0.0089	0.0085
Mercury	52672-03-22 12:29 G	20959193.97	20959194.02	20959194.09	0.0089	0.0077
Mercury	52672-06-18 13:55 G	20959282.00	20959282.08	20959282.17	0.0089	0.0069
Mercury	52672-09-14 15:22 G	20959370.05	20959370.14	20959370.23	0.0089	0.0061
Mercury	52672-12-11 16:19 G	20959458.09	20959458.18	20959458.30	0.0089	0.0054
Mercury	52673-03-09 17:46 G	20959546.14	20959546.24	20959546.36	0.0089	0.0046
Mercury	52673-06-05 19:12 G	20959634.18	20959634.30	20959634.42	0.0089	0.0038
Mercury	52673-09-01 20:24 G	20959722.23	20959722.35	20959722.48	0.0089	0.0030

Mercury	52673-11-28 21:50 G	20959810.28	20959810.41	20959810.54	0.0089	0.0022
Mercury	52674-02-24 23:02 G	20959898.33	20959898.46	20959898.59	0.0089	0.0015
Mercury	52674-05-24 00:29 G	20959986.39	20959986.52	20959986.65	0.0089	0.0007
Mercury	52674-08-20 01:41 G	20960074.44	20960074.57	20960074.70	0.0089	0.0002
Mercury	52674-11-16 03:07 G	20960162.50	20960162.63	20960162.76	0.0089	0.0009
Mercury	52675-02-12 04:19 G	20960250.55	20960250.68	20960250.81	0.0089	0.0017
Mercury	52675-05-11 05:31 G	20960338.61	20960338.73	20960338.86	0.0089	0.0025
Mercury	52675-08-07 06:58 G	20960426.66	20960426.79	20960426.91	0.0089	0.0032
Mercury	52675-11-03 08:10 G	20960514.72	20960514.84	20960514.96	0.0089	0.0040
Mercury	52676-01-30 09:22 G	20960602.78	20960602.89	20960603.01	0.0089	0.0048
Mercury	52676-04-27 10:34 G	20960690.85	20960690.94	20960691.05	0.0089	0.0056
Mercury	52676-07-24 12:00 G	20960778.91	20960779.00	20960779.09	0.0089	0.0063
Mercury	52676-10-20 13:12 G	20960866.98	20960867.05	20960867.13	0.0089	0.0071
Mercury	52677-01-16 14:24 G	20960955.05	20960955.10	20960955.17	0.0089	0.0079
Mercury	52677-04-14 15:50 G	20961043.13	20961043.16	20961043.19	0.0089	0.0086
Earth	52686-02-07 08:38 G	20964263.78	20964263.86	20964263.99	0.0089	0.0081
Moon	52686-02-07 12:14 G	20964263.96	20964264.01	20964264.11	0.0089	0.0085 *
Moon	52687-02-09 17:31 G	20964631.03	20964631.23	20964631.46	0.0088	0.0049
Earth	52687-02-09 21:07 G	20964631.18	20964631.38	20964631.60	0.0088	0.0052 *
Earth	52688-02-12 09:07 G	20964998.64	20964998.88	20964999.14	0.0088	0.0023
Moon	52688-02-12 12:43 G	20964998.78	20964999.03	20964999.28	0.0088	0.0027 *
Moon	52689-02-13 18:58 G	20965366.04	20965366.29	20965366.54	0.0088	0.0011
Earth	52689-02-13 21:22 G	20965366.13	20965366.39	20965366.65	0.0088	0.0007 *
Earth	52690-02-16 09:22 G	20965733.66	20965733.89	20965734.13	0.0088	0.0036
Moon	52690-02-16 10:19 G	20965733.70	20965733.93	20965734.20	0.0088	0.0032 *
Moon	52691-02-18 20:24 G	20966101.23	20966101.35	20966101.54	0.0088	0.0070
Earth	52691-02-18 21:22 G	20966101.23	20966101.39	20966101.58	0.0088	0.0065 *
Venus	52706-11-18 10:48 G	20971851.88	20971851.95	20971852.05	0.0088	0.0081
Venus	52707-07-01 23:31 G	20972077.38	20972077.48	20972077.62	0.0088	0.0073
Venus	52708-02-12 12:29 G	20972302.89	20972303.02	20972303.18	0.0088	0.0065

Venus	52708-09-25 01:26 G	20972528.40	20972528.56	20972528.73	0.0088	0.0057
Venus	52709-05-08 13:41 G	20972753.91	20972754.07	20972754.28	0.0088	0.0050
Venus	52709-12-20 02:38 G	20972979.43	20972979.61	20972979.82	0.0088	0.0042
Venus	52710-08-02 15:22 G	20973204.95	20973205.14	20973205.36	0.0088	0.0034
Venus	52711-03-16 04:05 G	20973430.47	20973430.67	20973430.89	0.0088	0.0026
Venus	52711-10-27 16:48 G	20973655.99	20973656.20	20973656.42	0.0088	0.0018
Venus	52712-06-09 05:31 G	20973881.52	20973881.73	20973881.96	0.0088	0.0010
Venus	52713-01-20 18:29 G	20974107.05	20974107.27	20974107.49	0.0088	0.0002
Venus	52713-09-03 07:12 G	20974332.58	20974332.80	20974333.02	0.0088	0.0006
Venus	52714-04-16 19:41 G	20974558.11	20974558.32	20974558.55	0.0088	0.0014
Venus	52714-11-28 08:24 G	20974783.64	20974783.85	20974784.07	0.0088	0.0022
Venus	52715-07-11 21:07 G	20975009.18	20975009.38	20975009.59	0.0088	0.0030
Venus	52716-02-22 09:50 G	20975234.72	20975234.91	20975235.12	0.0088	0.0038
Venus	52716-10-04 22:19 G	20975460.26	20975460.43	20975460.64	0.0088	0.0046
Venus	52717-05-18 11:02 G	20975685.81	20975685.96	20975686.15	0.0088	0.0054
Venus	52717-12-29 23:46 G	20975911.35	20975911.49	20975911.67	0.0088	0.0062
Venus	52718-08-12 12:43 G	20976136.91	20976137.03	20976137.18	0.0088	0.0069
Venus	52719-03-26 01:26 G	20976362.47	20976362.56	20976362.68	0.0088	0.0077
Venus	52719-11-06 13:55 G	20976588.04	20976588.08	20976588.16	0.0088	0.0085
Mars	52728-11-07 16:19 G	20979876.89	20979877.18	20979877.48	0.0088	0.0002
Mercury	52756-02-24 19:55 G	20989847.31	20989847.33	20989847.39	0.0088	0.0086
Mercury	52756-05-22 23:17 G	20989935.40	20989935.47	20989935.60	0.0088	0.0076
Mercury	52756-08-19 03:22 G	20990023.51	20990023.64	20990023.78	0.0088	0.0064
Mercury	52756-11-15 06:58 G	20990111.64	20990111.79	20990111.96	0.0088	0.0053
Mercury	52757-02-11 10:34 G	20990199.78	20990199.94	20990200.12	0.0088	0.0041
Mercury	52757-05-10 14:24 G	20990287.92	20990288.10	20990288.29	0.0088	0.0030
Mercury	52757-08-06 18:00 G	20990376.06	20990376.25	20990376.44	0.0088	0.0018
Mercury	52757-11-02 21:36 G	20990464.21	20990464.40	20990464.60	0.0088	0.0007
Mercury	52758-01-30 01:26 G	20990552.36	20990552.56	20990552.75	0.0088	0.0005
Mercury	52758-04-28 05:02 G	20990640.52	20990640.71	20990640.90	0.0088	0.0016

Mercury	52758-07-25 08:24 G	20990728.67	20990728.85	20990729.05	0.0088	0.0028
Mercury	52758-10-21 12:14 G	20990816.84	20990817.01	20990817.19	0.0088	0.0039
Mercury	52759-01-17 15:36 G	20990905.01	20990905.15	20990905.33	0.0088	0.0051
Mercury	52759-04-15 19:26 G	20990993.18	20990993.31	20990993.46	0.0088	0.0062
Mercury	52759-07-12 22:48 G	20991081.37	20991081.45	20991081.58	0.0089	0.0074
Mercury	52759-10-09 02:38 G	20991169.57	20991169.61	20991169.68	0.0089	0.0085
Jupiter	52768-10-22 23:46 G	20994471.23	20994471.49	20994471.80	0.0089	0.0075
Earth	52769-08-12 09:36 G	20994764.78	20994764.90	20994765.05	0.0089	0.0075
Moon	52769-08-12 12:29 G	20994764.91	20994765.02	20994765.19	0.0089	0.0075 *
Moon	52770-08-14 19:12 G	20995132.10	20995132.30	20995132.53	0.0089	0.0046
Earth	52770-08-14 20:53 G	20995132.17	20995132.37	20995132.61	0.0089	0.0046 *
Earth	52771-08-17 08:24 G	20995499.60	20995499.85	20995500.11	0.0089	0.0017
Moon	52771-08-17 09:36 G	20995499.64	20995499.90	20995500.16	0.0089	0.0016 *
Earth	52772-08-18 19:26 G	20995867.07	20995867.31	20995867.58	0.0089	0.0013
Moon	52772-08-18 20:10 G	20995867.09	20995867.34	20995867.58	0.0089	0.0012 *
Moon	52773-08-21 04:48 G	20996234.47	20996234.70	20996234.94	0.0089	0.0041
Earth	52773-08-21 06:29 G	20996234.56	20996234.77	20996235.01	0.0089	0.0042 *
Earth	52774-08-23 17:31 G	20996602.10	20996602.23	20996602.41	0.0089	0.0072
Moon	52774-08-23 20:24 G	20996602.20	20996602.35	20996602.50	0.0089	0.0070 *
Venus	52789-08-16 13:12 G	21002073.99	21002074.05	21002074.16	0.0089	0.0083
Venus	52790-03-30 02:53 G	21002299.50	21002299.62	21002299.75	0.0089	0.0074
Venus	52790-11-10 16:05 G	21002525.03	21002525.17	21002525.33	0.0089	0.0066
Venus	52791-06-24 05:17 G	21002750.57	21002750.72	21002750.91	0.0089	0.0058
Venus	52792-02-04 18:43 G	21002976.11	21002976.28	21002976.48	0.0089	0.0050
Venus	52792-09-17 08:24 G	21003201.65	21003201.85	21003202.04	0.0090	0.0041
Venus	52793-04-30 21:36 G	21003427.20	21003427.40	21003427.61	0.0090	0.0033
Venus	52793-12-12 10:48 G	21003652.75	21003652.95	21003653.17	0.0090	0.0025
Venus	52794-07-26 00:29 G	21003878.31	21003878.52	21003878.74	0.0090	0.0016
Venus	52795-03-08 13:55 G	21004103.86	21004104.08	21004104.30	0.0090	0.0008
Venus	52795-10-20 03:22 G	21004329.42	21004329.64	21004329.86	0.0090	0.0002

Venus	52796-06-01 16:34 G	21004554.97	21004555.19	21004555.41	0.0090	0.0009
Venus	52797-01-13 05:46 G	21004780.53	21004780.74	21004780.96	0.0090	0.0018
Venus	52797-08-26 19:12 G	21005006.10	21005006.30	21005006.52	0.0090	0.0026
Venus	52798-04-09 08:24 G	21005231.66	21005231.85	21005232.07	0.0090	0.0035
Venus	52798-11-20 21:36 G	21005457.22	21005457.40	21005457.61	0.0090	0.0043
Venus	52799-07-04 11:02 G	21005682.79	21005682.96	21005683.15	0.0090	0.0051
Venus	52800-02-15 00:29 G	21005908.36	21005908.52	21005908.69	0.0090	0.0059
Venus	52800-09-27 13:26 G	21006133.94	21006134.06	21006134.23	0.0090	0.0068
Venus	52801-05-11 02:38 G	21006359.52	21006359.61	21006359.75	0.0090	0.0076
Venus	52801-12-22 16:05 G	21006585.11	21006585.17	21006585.27	0.0090	0.0084
Mars	52810-10-02 22:34 G	21009791.11	21009791.44	21009791.78	0.0090	0.0001
Mercury	52836-09-21 11:02 G	21019276.92	21019276.96	21019277.02	0.0089	0.0081
Mercury	52836-12-18 12:29 G	21019364.95	21019365.02	21019365.10	0.0089	0.0073
Mercury	52837-03-16 13:41 G	21019452.99	21019453.07	21019453.17	0.0089	0.0066
Mercury	52837-06-12 14:53 G	21019541.03	21019541.12	21019541.23	0.0089	0.0058
Mercury	52837-09-08 16:19 G	21019629.08	21019629.18	21019629.30	0.0089	0.0050
Mercury	52837-12-05 17:46 G	21019717.13	21019717.24	21019717.36	0.0089	0.0042
Mercury	52838-03-03 18:58 G	21019805.17	21019805.29	21019805.42	0.0089	0.0034
Mercury	52838-05-30 20:24 G	21019893.22	21019893.35	21019893.48	0.0089	0.0026
Mercury	52838-08-26 21:36 G	21019981.27	21019981.40	21019981.53	0.0089	0.0019
Mercury	52838-11-22 23:02 G	21020069.33	21020069.46	21020069.59	0.0089	0.0011
Mercury	52839-02-19 00:14 G	21020157.38	21020157.51	21020157.64	0.0089	0.0003
Mercury	52839-05-18 01:26 G	21020245.43	21020245.56	21020245.70	0.0089	0.0006
Mercury	52839-08-14 02:53 G	21020333.49	21020333.62	21020333.75	0.0089	0.0012
Mercury	52839-11-10 04:05 G	21020421.54	21020421.67	21020421.80	0.0089	0.0020
Mercury	52840-02-06 05:17 G	21020509.60	21020509.72	21020509.85	0.0089	0.0028
Mercury	52840-05-04 06:29 G	21020597.66	21020597.77	21020597.90	0.0089	0.0036
Mercury	52840-07-31 07:41 G	21020685.72	21020685.82	21020685.95	0.0089	0.0044
Mercury	52840-10-27 09:07 G	21020773.78	21020773.88	21020773.99	0.0089	0.0051
Mercury	52841-01-23 10:19 G	21020861.84	21020861.93	21020862.04	0.0089	0.0059

Mercury	52841-04-21 11:31 G	21020949.91	21020949.98	21020950.08	0.0089	0.0067
Mercury	52841-07-18 12:58 G	21021037.98	21021038.04	21021038.12	0.0089	0.0074
Mercury	52841-10-14 14:10 G	21021126.05	21021126.09	21021126.15	0.0089	0.0082
Earth	52851-02-10 06:14 G	21024531.59	21024531.76	21024531.93	0.0088	0.0066
Moon	52851-02-10 08:24 G	21024531.68	21024531.85	21024532.06	0.0088	0.0063 *
Moon	52852-02-12 16:05 G	21024898.96	21024899.17	21024899.41	0.0088	0.0040
Earth	52852-02-12 18:14 G	21024899.03	21024899.26	21024899.50	0.0088	0.0037 *
Earth	52853-02-14 06:14 G	21025266.50	21025266.76	21025267.02	0.0088	0.0008
Moon	52853-02-14 07:12 G	21025266.53	21025266.80	21025267.07	0.0088	0.0005 *
Earth	52854-02-16 18:14 G	21025634.01	21025634.26	21025634.52	0.0088	0.0022
Moon	52854-02-16 18:58 G	21025634.05	21025634.29	21025634.54	0.0088	0.0019 *
Moon	52855-02-19 04:19 G	21026001.49	21026001.68	21026001.92	0.0088	0.0054
Earth	52855-02-19 06:14 G	21026001.56	21026001.76	21026001.98	0.0088	0.0051 *
Earth	52856-02-21 18:14 G	21026369.16	21026369.26	21026369.38	0.0088	0.0080
Moon	52856-02-21 20:38 G	21026369.26	21026369.36	21026369.51	0.0088	0.0077 *
Venus	52871-02-19 21:36 G	21031846.34	21031846.40	21031846.51	0.0088	0.0081
Venus	52871-10-03 10:34 G	21032071.84	21032071.94	21032072.08	0.0088	0.0073
Venus	52872-05-15 23:31 G	21032297.34	21032297.48	21032297.63	0.0088	0.0065
Venus	52872-12-27 12:00 G	21032522.86	21032523.00	21032523.19	0.0088	0.0058
Venus	52873-08-10 00:58 G	21032748.37	21032748.54	21032748.73	0.0088	0.0050
Venus	52874-03-23 13:41 G	21032973.89	21032974.07	21032974.27	0.0088	0.0042
Venus	52874-11-04 02:24 G	21033199.40	21033199.60	21033199.81	0.0088	0.0034
Venus	52875-06-17 15:07 G	21033424.93	21033425.13	21033425.35	0.0088	0.0026
Venus	52876-01-29 03:50 G	21033650.46	21033650.66	21033650.89	0.0088	0.0019
Venus	52876-09-10 16:34 G	21033875.98	21033876.19	21033876.42	0.0088	0.0011
Venus	52877-04-24 05:17 G	21034101.50	21034101.72	21034101.95	0.0088	0.0003
Venus	52877-12-05 18:00 G	21034327.03	21034327.25	21034327.47	0.0088	0.0005
Venus	52878-07-19 06:43 G	21034552.56	21034552.78	21034553.00	0.0088	0.0013
Venus	52879-03-01 19:12 G	21034778.10	21034778.30	21034778.52	0.0088	0.0021
Venus	52879-10-13 07:55 G	21035003.63	21035003.83	21035004.05	0.0088	0.0029

Venus	52880-05-25 20:24 G	21035229.16	21035229.35	21035229.57	0.0088	0.0037
Venus	52881-01-06 09:07 G	21035454.71	21035454.88	21035455.09	0.0088	0.0045
Venus	52881-08-19 22:05 G	21035680.25	21035680.42	21035680.60	0.0088	0.0052
Venus	52882-04-02 10:34 G	21035905.79	21035905.94	21035906.11	0.0088	0.0060
Venus	52882-11-13 23:02 G	21036131.34	21036131.46	21036131.62	0.0088	0.0068
Venus	52883-06-27 11:46 G	21036356.90	21036356.99	21036357.12	0.0088	0.0076
Venus	52884-02-08 00:43 G	21036582.48	21036582.53	21036582.62	0.0088	0.0083
Mars	52892-06-23 02:10 G	21039640.34	21039640.59	21039640.87	0.0088	0.0040
Mars	52894-05-17 22:19 G	21040334.28	21040334.43	21040334.65	0.0088	0.0069
Mercury	52920-11-21 18:29 G	21050018.20	21050018.27	21050018.34	0.0088	0.0082
Mercury	52921-02-17 21:50 G	21050106.31	21050106.41	21050106.54	0.0088	0.0071
Mercury	52921-05-17 01:26 G	21050194.43	21050194.56	21050194.72	0.0088	0.0060
Mercury	52921-08-13 05:02 G	21050282.56	21050282.71	21050282.89	0.0088	0.0048
Mercury	52921-11-09 08:53 G	21050370.70	21050370.87	21050371.05	0.0088	0.0037
Mercury	52922-02-05 12:29 G	21050458.84	21050459.02	21050459.22	0.0088	0.0026
Mercury	52922-05-04 16:05 G	21050546.99	21050547.17	21050547.37	0.0088	0.0015
Mercury	52922-07-31 19:55 G	21050635.14	21050635.33	21050635.53	0.0088	0.0003
Mercury	52922-10-27 23:31 G	21050723.29	21050723.48	21050723.68	0.0088	0.0009
Mercury	52923-01-24 03:07 G	21050811.45	21050811.63	21050811.83	0.0088	0.0020
Mercury	52923-04-22 06:58 G	21050899.61	21050899.79	21050899.97	0.0088	0.0032
Mercury	52923-07-19 10:19 G	21050987.77	21050987.93	21050988.11	0.0088	0.0044
Mercury	52923-10-15 14:10 G	21051075.94	21051076.09	21051076.25	0.0088	0.0055
Mercury	52924-01-11 17:31 G	21051164.12	21051164.23	21051164.38	0.0088	0.0067
Mercury	52924-04-08 21:22 G	21051252.31	21051252.39	21051252.50	0.0088	0.0078
Moon	52933-08-12 17:17 G	21054665.19	21054665.22	21054665.32	0.0089	0.0086
Moon	52934-08-15 06:14 G	21055032.60	21055032.76	21055032.96	0.0089	0.0065
Earth	52934-08-15 06:29 G	21055032.60	21055032.77	21055032.98	0.0089	0.0061 *
Jupiter	52934-12-26 16:48 G	21055165.73	21055166.20	21055166.71	0.0089	0.0037
Earth	52935-08-17 17:46 G	21055400.02	21055400.24	21055400.50	0.0089	0.0032
Moon	52935-08-17 19:12 G	21055400.07	21055400.30	21055400.54	0.0089	0.0027 *



Moon	52936-08-19 03:22 G	21055767.38	21055767.64	21055767.91	0.0089	0.0007
Earth	52936-08-19 05:31 G	21055767.48	21055767.73	21055767.99	0.0089	0.0002 *
Earth	52937-08-21 16:48 G	21056134.96	21056135.20	21056135.45	0.0089	0.0027
Moon	52937-08-21 19:41 G	21056135.10	21056135.32	21056135.57	0.0089	0.0032 *
Moon	52938-08-24 00:14 G	21056502.32	21056502.51	21056502.74	0.0089	0.0052
Earth	52938-08-24 03:22 G	21056502.47	21056502.64	21056502.87	0.0089	0.0058 *
Earth	52939-08-26 14:24 G	21056870.07	21056870.10	21056870.20	0.0089	0.0087
Venus	52953-11-18 23:31 G	21062068.42	21062068.48	21062068.59	0.0089	0.0083
Venus	52954-07-02 12:43 G	21062293.94	21062294.03	21062294.18	0.0089	0.0075
Venus	52955-02-13 02:10 G	21062519.47	21062519.59	21062519.76	0.0089	0.0067
Venus	52955-09-26 15:50 G	21062745.00	21062745.16	21062745.33	0.0089	0.0058
Venus	52956-05-09 05:02 G	21062970.54	21062970.71	21062970.90	0.0090	0.0050
Venus	52956-12-20 18:14 G	21063196.08	21063196.26	21063196.47	0.0090	0.0042
Venus	52957-08-03 07:41 G	21063421.63	21063421.82	21063422.04	0.0090	0.0034
Venus	52958-03-16 21:07 G	21063647.18	21063647.38	21063647.60	0.0090	0.0025
Venus	52958-10-28 10:34 G	21063872.73	21063872.94	21063873.16	0.0090	0.0017
Venus	52959-06-11 00:00 G	21064098.28	21064098.50	21064098.72	0.0090	0.0009
Venus	52960-01-22 13:26 G	21064323.84	21064324.06	21064324.28	0.0090	0.0000
Venus	52960-09-04 02:53 G	21064549.40	21064549.62	21064549.84	0.0090	0.0008
Venus	52961-04-17 16:05 G	21064774.96	21064775.17	21064775.39	0.0090	0.0017
Venus	52961-11-29 05:31 G	21065000.52	21065000.73	21065000.95	0.0090	0.0025
Venus	52962-07-12 18:58 G	21065226.09	21065226.29	21065226.50	0.0090	0.0033
Venus	52963-02-23 08:10 G	21065451.66	21065451.84	21065452.05	0.0090	0.0042
Venus	52963-10-06 21:22 G	21065677.23	21065677.39	21065677.59	0.0090	0.0050
Venus	52964-05-19 10:48 G	21065902.80	21065902.95	21065903.13	0.0090	0.0058
Venus	52964-12-31 00:14 G	21066128.37	21066128.51	21066128.67	0.0090	0.0066
Venus	52965-08-13 13:41 G	21066353.96	21066354.07	21066354.20	0.0090	0.0074
Venus	52966-03-27 02:53 G	21066579.55	21066579.62	21066579.72	0.0090	0.0082
Mars	52974-05-17 16:19 G	21069552.93	21069553.18	21069553.48	0.0090	0.0051
Mars	52976-04-12 16:05 G	21070249.03	21070249.17	21070249.32	0.0090	0.0080

# 54TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 54th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	53001-03-24 09:22	G	21079359.87	21079359.89	21079359.94	0.0089	0.0086	
Mercury	53001-06-20 10:48	G	21079447.90	21079447.95	21079448.02	0.0089	0.0078	
Mercury	53001-09-16 12:14	G	21079535.93	21079536.01	21079536.09	0.0089	0.0070	
Mercury	53001-12-13 13:26	G	21079623.97	21079624.06	21079624.16	0.0089	0.0062	
Mercury	53002-03-11 14:53	G	21079712.02	21079712.12	21079712.23	0.0089	0.0054	
Mercury	53002-06-07 16:05	G	21079800.07	21079800.17	21079800.29	0.0089	0.0047	
Mercury	53002-09-03 17:17	G	21079888.11	21079888.22	21079888.35	0.0089	0.0039	
Mercury	53002-11-30 18:43	G	21079976.16	21079976.28	21079976.41	0.0089	0.0031	
Mercury	53003-02-26 20:10	G	21080064.21	21080064.34	21080064.47	0.0089	0.0023	
Mercury	53003-05-25 21:22	G	21080152.26	21080152.39	21080152.52	0.0089	0.0015	
Mercury	53003-08-21 22:48	G	21080240.32	21080240.45	21080240.58	0.0089	0.0007	
Mercury	53003-11-18 00:00	G	21080328.37	21080328.50	21080328.63	0.0089	0.0002	
Mercury	53004-02-14 01:12	G	21080416.43	21080416.55	21080416.69	0.0089	0.0009	
Mercury	53004-05-12 02:38	G	21080504.48	21080504.61	21080504.74	0.0089	0.0016	
Mercury	53004-08-08 03:50	G	21080592.54	21080592.66	21080592.79	0.0089	0.0024	
Mercury	53004-11-04 05:02	G	21080680.60	21080680.71	21080680.84	0.0089	0.0032	
Mercury	53005-01-31 06:29	G	21080768.65	21080768.77	21080768.89	0.0089	0.0039	
Mercury	53005-04-29 07:41	G	21080856.71	21080856.82	21080856.94	0.0089	0.0047	

Mercury	53005-07-26 08:53 G	21080944.78	21080944.87	21080944.98	0.0089	0.0055
Mercury	53005-10-22 10:19 G	21081032.84	21081032.93	21081033.02	0.0089	0.0062
Mercury	53006-01-18 11:31 G	21081120.91	21081120.98	21081121.06	0.0089	0.0070
Mercury	53006-04-16 12:43 G	21081208.98	21081209.03	21081209.10	0.0089	0.0078
Mercury	53006-07-13 14:10 G	21081297.06	21081297.09	21081297.12	0.0089	0.0085
Moon	53015-02-11 13:26 G	21084432.00	21084432.06	21084432.17	0.0088	0.0084
Earth	53015-02-11 14:38 G	21084432.02	21084432.11	21084432.23	0.0088	0.0081 *
Moon	53016-02-14 02:24 G	21084799.40	21084799.60	21084799.85	0.0088	0.0050
Earth	53016-02-14 02:38 G	21084799.42	21084799.61	21084799.84	0.0088	0.0052 *
Earth	53017-02-15 14:38 G	21085166.87	21085167.11	21085167.37	0.0088	0.0023
Moon	53017-02-15 15:36 G	21085166.92	21085167.15	21085167.40	0.0088	0.0026 *
Moon	53018-02-18 00:00 G	21085534.24	21085534.50	21085534.77	0.0088	0.0010
Earth	53018-02-18 02:53 G	21085534.36	21085534.62	21085534.88	0.0088	0.0007 *
Earth	53019-02-20 14:24 G	21085901.88	21085902.10	21085902.36	0.0088	0.0037
Moon	53019-02-20 17:31 G	21085902.01	21085902.23	21085902.48	0.0088	0.0034 *
Moon	53020-02-22 22:34 G	21086269.30	21086269.44	21086269.63	0.0088	0.0069
Earth	53020-02-23 02:10 G	21086269.44	21086269.59	21086269.79	0.0088	0.0065 *
Venus	53035-05-26 08:10 G	21091840.78	21091840.84	21091840.95	0.0088	0.0081
Venus	53036-01-06 21:22 G	21092066.28	21092066.39	21092066.52	0.0088	0.0073
Venus	53036-08-19 10:19 G	21092291.79	21092291.93	21092292.08	0.0088	0.0065
Venus	53037-04-01 22:34 G	21092517.30	21092517.44	21092517.63	0.0088	0.0058
Venus	53037-11-13 11:31 G	21092742.81	21092742.98	21092743.17	0.0088	0.0050
Venus	53038-06-27 00:29 G	21092968.33	21092968.52	21092968.72	0.0088	0.0042
Venus	53039-02-07 12:58 G	21093193.86	21093194.04	21093194.26	0.0088	0.0035
Venus	53039-09-21 01:55 G	21093419.38	21093419.58	21093419.80	0.0088	0.0027
Venus	53040-05-03 14:38 G	21093644.90	21093645.11	21093645.33	0.0088	0.0019
Venus	53040-12-15 03:36 G	21093870.43	21093870.65	21093870.87	0.0088	0.0011
Venus	53041-07-28 16:05 G	21094095.96	21094096.17	21094096.40	0.0088	0.0004
Venus	53042-03-11 04:48 G	21094321.48	21094321.70	21094321.93	0.0088	0.0005
Venus	53042-10-22 17:17 G	21094547.01	21094547.22	21094547.45	0.0088	0.0013

Venus	53043-06-05 06:14 G	21094772.54	21094772.76	21094772.97	0.0088	0.0020
Venus	53044-01-16 18:43 G	21094998.08	21094998.28	21094998.50	0.0088	0.0028
Venus	53044-08-29 07:12 G	21095223.62	21095223.80	21095224.02	0.0088	0.0036
Venus	53045-04-11 20:10 G	21095449.15	21095449.34	21095449.53	0.0088	0.0043
Venus	53045-11-23 08:38 G	21095674.69	21095674.86	21095675.05	0.0088	0.0051
Venus	53046-07-06 21:07 G	21095900.23	21095900.38	21095900.56	0.0088	0.0059
Venus	53047-02-17 10:19 G	21096125.79	21096125.93	21096126.07	0.0088	0.0066
Venus	53047-09-30 22:34 G	21096351.34	21096351.44	21096351.58	0.0088	0.0074
Venus	53048-05-13 11:02 G	21096576.91	21096576.96	21096577.07	0.0088	0.0082
Mars	53056-02-08 12:29 G	21099403.93	21099404.02	21099404.14	0.0088	0.0082
Mars	53058-01-02 07:41 G	21100097.55	21100097.82	21100098.12	0.0088	0.0026
Mercury	53085-08-19 16:34 G	21110189.11	21110189.19	21110189.29	0.0088	0.0078
Mercury	53085-11-15 19:55 G	21110277.22	21110277.33	21110277.47	0.0088	0.0067
Mercury	53086-02-11 23:31 G	21110365.34	21110365.48	21110365.65	0.0088	0.0056
Mercury	53086-05-11 03:07 G	21110453.48	21110453.63	21110453.82	0.0088	0.0045
Mercury	53086-08-07 06:58 G	21110541.62	21110541.79	21110541.98	0.0088	0.0033
Mercury	53086-11-03 10:34 G	21110629.76	21110629.94	21110630.14	0.0088	0.0022
Mercury	53087-01-30 14:10 G	21110717.91	21110718.09	21110718.29	0.0088	0.0011
Mercury	53087-04-28 18:00 G	21110806.06	21110806.25	21110806.45	0.0088	0.0002
Mercury	53087-07-25 21:36 G	21110894.21	21110894.40	21110894.60	0.0088	0.0013
Mercury	53087-10-22 01:12 G	21110982.37	21110982.55	21110982.75	0.0088	0.0024
Mercury	53088-01-18 04:48 G	21111070.53	21111070.70	21111070.89	0.0088	0.0036
Mercury	53088-04-15 08:24 G	21111158.70	21111158.85	21111159.03	0.0088	0.0047
Mercury	53088-07-12 12:00 G	21111246.87	21111247.00	21111247.16	0.0088	0.0059
Mercury	53088-10-08 15:36 G	21111335.05	21111335.15	21111335.29	0.0088	0.0071
Mercury	53089-01-04 19:26 G	21111423.25	21111423.31	21111423.40	0.0088	0.0082
Earth	53098-08-15 14:53 G	21114933.01	21114933.12	21114933.27	0.0089	0.0076
Moon	53098-08-15 16:48 G	21114933.11	21114933.20	21114933.34	0.0089	0.0078 *
Moon	53099-08-17 23:31 G	21115300.27	21115300.48	21115300.72	0.0089	0.0045
Earth	53099-08-18 02:24 G	21115300.40	21115300.60	21115300.83	0.0089	0.0047 *

Earth	53100-08-20 14:10 G	21115667.84	21115668.09	21115668.34	0.0089	0.0017
Moon	53100-08-20 17:17 G	21115667.97	21115668.22	21115668.47	0.0089	0.0018 *
Moon	53101-08-22 21:36 G	21116035.15	21116035.40	21116035.66	0.0089	0.0014
Earth	53101-08-23 01:26 G	21116035.31	21116035.56	21116035.82	0.0089	0.0012 *
Earth	53102-08-25 12:43 G	21116402.81	21116403.03	21116403.26	0.0089	0.0041
Moon	53102-08-25 15:50 G	21116402.94	21116403.16	21116403.40	0.0089	0.0040 *
Moon	53103-08-27 21:07 G	21116770.24	21116770.38	21116770.54	0.0089	0.0071
Earth	53103-08-27 23:31 G	21116770.36	21116770.48	21116770.66	0.0089	0.0071 *
Venus	53118-02-22 09:36 G	21122062.85	21122062.90	21122063.01	0.0089	0.0083
Venus	53118-10-05 23:02 G	21122288.36	21122288.46	21122288.60	0.0089	0.0075
Venus	53119-05-19 12:14 G	21122513.89	21122514.01	21122514.18	0.0089	0.0067
Venus	53119-12-31 01:41 G	21122739.42	21122739.57	21122739.75	0.0090	0.0059
Venus	53120-08-12 14:53 G	21122964.96	21122965.12	21122965.32	0.0090	0.0051
Venus	53121-03-26 04:19 G	21123190.50	21123190.68	21123190.89	0.0090	0.0043
Venus	53121-11-06 18:00 G	21123416.04	21123416.25	21123416.45	0.0090	0.0034
Venus	53122-06-20 07:12 G	21123641.59	21123641.80	21123642.01	0.0090	0.0026
Venus	53123-01-31 20:24 G	21123867.14	21123867.35	21123867.57	0.0090	0.0018
Venus	53123-09-14 09:50 G	21124092.70	21124092.91	21124093.13	0.0090	0.0010
Venus	53124-04-26 23:17 G	21124318.25	21124318.47	21124318.69	0.0090	0.0001
Venus	53124-12-08 12:29 G	21124543.81	21124544.02	21124544.24	0.0090	0.0007
Venus	53125-07-22 01:55 G	21124769.37	21124769.58	21124769.80	0.0090	0.0015
Venus	53126-03-04 15:22 G	21124994.93	21124995.14	21124995.36	0.0090	0.0023
Venus	53126-10-16 04:34 G	21125220.50	21125220.69	21125220.91	0.0090	0.0032
Venus	53127-05-29 18:00 G	21125446.06	21125446.25	21125446.45	0.0090	0.0040
Venus	53128-01-10 07:26 G	21125671.63	21125671.81	21125672.00	0.0090	0.0048
Venus	53128-08-22 21:07 G	21125897.21	21125897.38	21125897.55	0.0090	0.0056
Venus	53129-04-05 09:50 G	21126122.78	21126122.91	21126123.09	0.0090	0.0065
Venus	53129-11-16 23:46 G	21126348.36	21126348.49	21126348.62	0.0090	0.0072
Venus	53130-06-30 12:29 G	21126573.95	21126574.02	21126574.14	0.0090	0.0081
Venus	53131-02-11 02:24 G	21126799.57	21126799.60	21126799.64	0.0090	0.0088

Mars	53139-11-27 08:10 G	21130010.52	21130010.84	21130011.16	0.0090	0.0028
Mercury	53165-12-20 09:07 G	21139530.84	21139530.88	21139530.93	0.0089	0.0083
Mercury	53166-03-18 10:19 G	21139618.87	21139618.93	21139619.01	0.0089	0.0075
Mercury	53166-06-14 11:46 G	21139706.91	21139706.99	21139707.08	0.0089	0.0067
Mercury	53166-09-10 13:12 G	21139794.95	21139795.05	21139795.15	0.0089	0.0059
Mercury	53166-12-07 14:24 G	21139883.00	21139883.10	21139883.21	0.0089	0.0052
Mercury	53167-03-05 15:36 G	21139971.05	21139971.15	21139971.28	0.0089	0.0044
Mercury	53167-06-01 17:02 G	21140059.10	21140059.21	21140059.34	0.0089	0.0036
Mercury	53167-08-28 18:29 G	21140147.15	21140147.27	21140147.40	0.0089	0.0028
Mercury	53167-11-24 19:41 G	21140235.20	21140235.32	21140235.45	0.0089	0.0020
Mercury	53168-02-20 21:07 G	21140323.25	21140323.38	21140323.51	0.0089	0.0012
Mercury	53168-05-18 22:19 G	21140411.30	21140411.43	21140411.57	0.0089	0.0005
Mercury	53168-08-14 23:46 G	21140499.36	21140499.49	21140499.62	0.0089	0.0003
Mercury	53168-11-11 00:58 G	21140587.41	21140587.54	21140587.67	0.0089	0.0011
Mercury	53169-02-07 02:10 G	21140675.47	21140675.59	21140675.72	0.0089	0.0019
Mercury	53169-05-06 03:22 G	21140763.52	21140763.64	21140763.78	0.0089	0.0027
Mercury	53169-08-02 04:48 G	21140851.58	21140851.70	21140851.82	0.0089	0.0034
Mercury	53169-10-29 06:00 G	21140939.64	21140939.75	21140939.87	0.0089	0.0042
Mercury	53170-01-25 07:12 G	21141027.70	21141027.80	21141027.92	0.0089	0.0050
Mercury	53170-04-23 08:24 G	21141115.76	21141115.85	21141115.96	0.0089	0.0058
Mercury	53170-07-20 09:50 G	21141203.83	21141203.91	21141204.00	0.0089	0.0065
Mercury	53170-10-16 11:02 G	21141291.90	21141291.96	21141292.04	0.0089	0.0073
Mercury	53171-01-12 12:14 G	21141379.97	21141380.01	21141380.08	0.0089	0.0081
Mercury	53171-04-10 13:41 G	21141468.06	21141468.07	21141468.09	0.0089	0.0088
Earth	53180-02-14 10:34 G	21144699.79	21144699.94	21144700.13	0.0088	0.0067
Moon	53180-02-14 12:43 G	21144699.87	21144700.03	21144700.22	0.0088	0.0063 *
Moon	53181-02-15 19:55 G	21145067.12	21145067.33	21145067.59	0.0088	0.0042
Earth	53181-02-15 22:48 G	21145067.23	21145067.45	21145067.70	0.0088	0.0038 *
Earth	53182-02-18 11:02 G	21145434.71	21145434.96	21145435.22	0.0088	0.0008
Moon	53182-02-18 14:53 G	21145434.86	21145435.12	21145435.37	0.0088	0.0004 *

Moon	53183-02-20 19:26 G	21145802.06	21145802.31	21145802.57	0.0088	0.0017
Earth	53183-02-20 22:48 G	21145802.21	21145802.45	21145802.72	0.0088	0.0022 *
Earth	53184-02-23 10:34 G	21146169.75	21146169.94	21146170.17	0.0088	0.0051
Moon	53184-02-23 14:24 G	21146169.90	21146170.10	21146170.31	0.0088	0.0054 *
Moon	53185-02-24 20:10 G	21146537.22	21146537.34	21146537.48	0.0088	0.0076
Earth	53185-02-24 22:34 G	21146537.35	21146537.44	21146537.57	0.0088	0.0080 *
Venus	53199-08-28 18:29 G	21151835.21	21151835.27	21151835.37	0.0088	0.0081
Venus	53200-04-10 07:26 G	21152060.70	21152060.81	21152060.94	0.0088	0.0073
Venus	53200-11-21 19:55 G	21152286.20	21152286.33	21152286.49	0.0088	0.0066
Venus	53201-07-05 08:53 G	21152511.71	21152511.87	21152512.04	0.0088	0.0058
Venus	53202-02-15 21:22 G	21152737.23	21152737.39	21152737.59	0.0088	0.0051
Venus	53202-09-29 10:19 G	21152962.75	21152962.93	21152963.14	0.0088	0.0043
Venus	53203-05-12 23:17 G	21153188.27	21153188.47	21153188.68	0.0088	0.0035
Venus	53203-12-24 12:14 G	21153413.80	21153414.01	21153414.22	0.0088	0.0027
Venus	53204-08-06 00:43 G	21153639.32	21153639.53	21153639.75	0.0088	0.0020
Venus	53205-03-19 13:26 G	21153864.85	21153865.06	21153865.29	0.0088	0.0012
Venus	53205-10-31 02:10 G	21154090.37	21154090.59	21154090.82	0.0088	0.0005
Venus	53206-06-13 14:53 G	21154315.90	21154316.12	21154316.34	0.0088	0.0004
Venus	53207-01-25 03:36 G	21154541.44	21154541.65	21154541.88	0.0088	0.0012
Venus	53207-09-07 16:19 G	21154766.97	21154767.18	21154767.40	0.0088	0.0019
Venus	53208-04-20 04:48 G	21154992.50	21154992.70	21154992.92	0.0088	0.0027
Venus	53208-12-01 17:17 G	21155218.04	21155218.22	21155218.44	0.0088	0.0035
Venus	53209-07-15 06:14 G	21155443.57	21155443.76	21155443.96	0.0088	0.0042
Venus	53210-02-25 18:43 G	21155669.12	21155669.28	21155669.48	0.0088	0.0050
Venus	53210-10-09 07:41 G	21155894.66	21155894.82	21155894.99	0.0088	0.0057
Venus	53211-05-22 19:55 G	21156120.20	21156120.33	21156120.50	0.0088	0.0065
Venus	53212-01-03 09:07 G	21156345.76	21156345.88	21156346.00	0.0088	0.0072
Venus	53212-08-15 21:22 G	21156571.32	21156571.39	21156571.50	0.0088	0.0080
Venus	53213-03-29 10:19 G	21156796.92	21156796.93	21156796.96	0.0088	0.0087
Mars	53221-08-18 15:50 G	21159860.87	21159861.16	21159861.46	0.0088	0.0017

Mercury	53250-02-18 10:34 G	21170271.91	21170271.94	21170272.01	0.0088	0.0086
Mercury	53250-05-17 14:10 G	21170360.00	21170360.09	21170360.21	0.0088	0.0075
Mercury	53250-08-13 17:46 G	21170448.12	21170448.24	21170448.39	0.0088	0.0064
Mercury	53250-11-09 21:50 G	21170536.25	21170536.41	21170536.56	0.0088	0.0052
Mercury	53251-02-06 01:12 G	21170624.38	21170624.55	21170624.73	0.0088	0.0041
Mercury	53251-05-05 04:48 G	21170712.52	21170712.70	21170712.89	0.0088	0.0029
Mercury	53251-08-01 08:24 G	21170800.67	21170800.85	21170801.05	0.0088	0.0018
Mercury	53251-10-28 12:14 G	21170888.81	21170889.01	21170889.21	0.0088	0.0007
Mercury	53252-01-24 15:50 G	21170976.97	21170977.16	21170977.36	0.0088	0.0005
Mercury	53252-04-21 19:26 G	21171065.12	21171065.31	21171065.51	0.0088	0.0016
Mercury	53252-07-18 23:02 G	21171153.28	21171153.46	21171153.65	0.0088	0.0028
Mercury	53252-10-15 02:24 G	21171241.44	21171241.60	21171241.79	0.0088	0.0040
Mercury	53253-01-11 06:14 G	21171329.61	21171329.76	21171329.93	0.0088	0.0051
Mercury	53253-04-09 09:36 G	21171417.79	21171417.90	21171418.06	0.0088	0.0063
Mercury	53253-07-06 13:26 G	21171505.97	21171506.06	21171506.19	0.0088	0.0074
Mercury	53253-10-02 17:31 G	21171594.18	21171594.23	21171594.28	0.0088	0.0085
Moon	53262-08-15 20:24 G	21174833.31	21174833.35	21174833.40	0.0089	0.0087
Earth	53263-08-18 11:02 G	21175200.78	21175200.96	21175201.14	0.0089	0.0062
Moon	53263-08-18 14:24 G	21175200.94	21175201.10	21175201.27	0.0089	0.0066 *
Moon	53264-08-19 18:29 G	21175568.04	21175568.27	21175568.52	0.0089	0.0029
Earth	53264-08-19 22:05 G	21175568.19	21175568.42	21175568.66	0.0089	0.0033 *
Earth	53265-08-22 09:22 G	21175935.64	21175935.89	21175936.15	0.0089	0.0004
Moon	53265-08-22 12:29 G	21175935.77	21175936.02	21175936.29	0.0089	0.0008 *
Moon	53266-08-24 18:29 G	21176303.05	21176303.27	21176303.52	0.0089	0.0030
Earth	53266-08-24 20:24 G	21176303.12	21176303.35	21176303.61	0.0089	0.0026 *
Earth	53267-08-27 07:55 G	21176670.64	21176670.83	21176671.04	0.0089	0.0055
Moon	53267-08-27 09:07 G	21176670.68	21176670.88	21176671.11	0.0089	0.0051 *
Earth	53268-08-28 19:26 G	21177038.24	21177038.31	21177038.39	0.0089	0.0084
Venus	53282-05-26 19:12 G	21182057.23	21182057.30	21182057.40	0.0089	0.0083
Venus	53283-01-07 08:38 G	21182282.75	21182282.86	21182282.99	0.0089	0.0075



Venus	53283-08-20 22:05 G	21182508.29	21182508.42	21182508.58	0.0089	0.0067
Venus	53284-04-02 11:17 G	21182733.82	21182733.97	21182734.15	0.0089	0.0059
Venus	53284-11-14 00:43 G	21182959.36	21182959.53	21182959.72	0.0089	0.0051
Venus	53285-06-27 14:10 G	21183184.90	21183185.09	21183185.29	0.0090	0.0043
Venus	53286-02-08 03:22 G	21183410.45	21183410.64	21183410.85	0.0090	0.0035
Venus	53286-09-21 16:48 G	21183635.99	21183636.20	21183636.41	0.0090	0.0027
Venus	53287-05-05 06:00 G	21183861.54	21183861.75	21183861.97	0.0090	0.0019
Venus	53287-12-16 19:26 G	21184087.09	21184087.31	21184087.53	0.0090	0.0010
Venus	53288-07-29 08:53 G	21184312.65	21184312.87	21184313.09	0.0090	0.0002
Venus	53289-03-11 22:05 G	21184538.21	21184538.42	21184538.64	0.0090	0.0006
Venus	53289-10-23 11:31 G	21184763.76	21184763.98	21184764.20	0.0090	0.0014
Venus	53290-06-06 00:29 G	21184989.32	21184989.52	21184989.75	0.0090	0.0023
Venus	53291-01-17 13:55 G	21185214.89	21185215.08	21185215.30	0.0090	0.0031
Venus	53291-08-31 03:22 G	21185440.46	21185440.64	21185440.85	0.0090	0.0039
Venus	53292-04-12 16:48 G	21185666.03	21185666.20	21185666.40	0.0090	0.0047
Venus	53292-11-24 06:00 G	21185891.60	21185891.75	21185891.94	0.0090	0.0055
Venus	53293-07-07 19:26 G	21186117.18	21186117.31	21186117.49	0.0090	0.0063
Venus	53294-02-18 08:53 G	21186342.76	21186342.87	21186343.02	0.0090	0.0071
Venus	53294-10-01 22:19 G	21186568.35	21186568.43	21186568.55	0.0090	0.0079
Venus	53295-05-15 11:31 G	21186793.95	21186793.98	21186794.06	0.0090	0.0087
Mars	53303-07-11 21:50 G	21189772.10	21189772.41	21189772.74	0.0090	0.0026
Mercury	53330-06-21 07:26 G	21199613.80	21199613.81	21199613.82	0.0089	0.0088
Mercury	53330-09-17 08:38 G	21199701.81	21199701.86	21199701.92	0.0089	0.0080
Mercury	53330-12-14 10:05 G	21199789.85	21199789.92	21199790.00	0.0089	0.0072
Mercury	53331-03-12 11:17 G	21199877.89	21199877.97	21199878.07	0.0089	0.0065
Mercury	53331-06-08 12:29 G	21199965.93	21199966.02	21199966.13	0.0089	0.0057
Mercury	53331-09-04 13:55 G	21200053.98	21200054.08	21200054.20	0.0089	0.0049
Mercury	53331-12-01 15:22 G	21200142.03	21200142.14	21200142.26	0.0089	0.0041
Mercury	53332-02-27 16:48 G	21200230.08	21200230.20	21200230.32	0.0089	0.0033
Mercury	53332-05-25 18:00 G	21200318.13	21200318.25	21200318.38	0.0089	0.0025

Mercury	53332-08-21 19:12 G	21200406.18	21200406.30	21200406.44	0.0089	0.0018
Mercury	53332-11-17 20:38 G	21200494.23	21200494.36	21200494.49	0.0089	0.0010
Mercury	53333-02-13 22:05 G	21200582.29	21200582.42	21200582.55	0.0089	0.0002
Mercury	53333-05-12 23:17 G	21200670.34	21200670.47	21200670.60	0.0089	0.0006
Mercury	53333-08-09 00:29 G	21200758.40	21200758.52	21200758.66	0.0089	0.0014
Mercury	53333-11-05 01:55 G	21200846.45	21200846.58	21200846.71	0.0089	0.0022
Mercury	53334-02-01 03:07 G	21200934.51	21200934.63	21200934.76	0.0089	0.0029
Mercury	53334-04-30 04:34 G	21201022.57	21201022.69	21201022.81	0.0089	0.0037
Mercury	53334-07-27 05:31 G	21201110.63	21201110.73	21201110.85	0.0089	0.0045
Mercury	53334-10-23 06:43 G	21201198.69	21201198.78	21201198.90	0.0089	0.0053
Mercury	53335-01-19 08:24 G	21201286.75	21201286.85	21201286.94	0.0089	0.0060
Mercury	53335-04-17 09:22 G	21201374.82	21201374.89	21201374.98	0.0089	0.0068
Mercury	53335-07-14 10:34 G	21201462.89	21201462.94	21201463.02	0.0089	0.0076
Mercury	53335-10-10 12:00 G	21201550.96	21201551.00	21201551.05	0.0089	0.0083
Jupiter	53343-09-24 08:10 G	21204456.80	21204456.84	21204456.91	0.0088	0.0088
Moon	53344-02-14 14:10 G	21204600.02	21204600.09	21204600.21	0.0088	0.0083
Earth	53344-02-14 17:31 G	21204600.17	21204600.23	21204600.36	0.0088	0.0083 *
Earth	53345-02-16 06:14 G	21204967.56	21204967.76	21204967.97	0.0088	0.0053
Moon	53345-02-16 09:22 G	21204967.70	21204967.89	21204968.12	0.0088	0.0052 *
Moon	53346-02-18 14:24 G	21205334.87	21205335.10	21205335.36	0.0088	0.0025
Earth	53346-02-18 18:14 G	21205335.02	21205335.26	21205335.52	0.0088	0.0024 *
Earth	53347-02-21 06:14 G	21205702.51	21205702.76	21205703.02	0.0088	0.0006
Moon	53347-02-21 09:07 G	21205702.62	21205702.88	21205703.15	0.0088	0.0007 *
Moon	53348-02-23 15:50 G	21206069.94	21206070.16	21206070.41	0.0088	0.0034
Earth	53348-02-23 18:00 G	21206070.03	21206070.25	21206070.50	0.0088	0.0036 *
Earth	53349-02-25 05:46 G	21206437.59	21206437.74	21206437.94	0.0088	0.0065
Moon	53349-02-25 06:43 G	21206437.63	21206437.78	21206437.98	0.0088	0.0067 *
Venus	53363-12-01 04:34 G	21211829.62	21211829.69	21211829.79	0.0088	0.0081
Venus	53364-07-13 17:46 G	21212055.12	21212055.24	21212055.36	0.0088	0.0073
Venus	53365-02-24 06:00 G	21212280.62	21212280.75	21212280.91	0.0088	0.0066

Venus	53365-10-07 18:58 G	21212506.13	21212506.29	21212506.46	0.0088	0.0058
Venus	53366-05-21 07:26 G	21212731.65	21212731.81	21212732.01	0.0088	0.0051
Venus	53367-01-01 20:24 G	21212957.17	21212957.35	21212957.55	0.0088	0.0043
Venus	53367-08-15 09:07 G	21213182.69	21213182.88	21213183.09	0.0088	0.0036
Venus	53368-03-27 21:50 G	21213408.21	21213408.41	21213408.63	0.0088	0.0028
Venus	53368-11-08 10:48 G	21213633.73	21213633.95	21213634.16	0.0088	0.0020
Venus	53369-06-21 23:17 G	21213859.26	21213859.47	21213859.70	0.0088	0.0013
Venus	53370-02-02 12:14 G	21214084.79	21214085.01	21214085.24	0.0088	0.0005
Venus	53370-09-16 00:58 G	21214310.32	21214310.54	21214310.77	0.0088	0.0003
Venus	53371-04-29 13:41 G	21214535.85	21214536.07	21214536.29	0.0088	0.0010
Venus	53371-12-11 02:24 G	21214761.38	21214761.60	21214761.82	0.0088	0.0018
Venus	53372-07-23 14:53 G	21214986.92	21214987.12	21214987.34	0.0088	0.0026
Venus	53373-03-06 03:50 G	21215212.45	21215212.66	21215212.86	0.0088	0.0033
Venus	53373-10-17 16:05 G	21215437.99	21215438.17	21215438.38	0.0088	0.0041
Venus	53374-05-31 04:34 G	21215663.53	21215663.69	21215663.90	0.0088	0.0049
Venus	53375-01-11 17:31 G	21215889.07	21215889.23	21215889.41	0.0088	0.0056
Venus	53375-08-25 06:29 G	21216114.62	21216114.77	21216114.92	0.0088	0.0063
Venus	53376-04-06 18:29 G	21216340.16	21216340.27	21216340.42	0.0088	0.0071
Venus	53376-11-18 07:26 G	21216565.72	21216565.81	21216565.91	0.0088	0.0078
Venus	53377-07-01 19:41 G	21216791.29	21216791.32	21216791.39	0.0088	0.0086
Mars	53385-04-03 23:46 G	21219624.30	21219624.49	21219624.72	0.0088	0.0062
Mars	53387-02-26 17:31 G	21220318.01	21220318.23	21220318.51	0.0088	0.0048
Mercury	53414-11-17 08:24 G	21230442.79	21230442.85	21230442.92	0.0088	0.0083
Mercury	53415-02-13 12:00 G	21230530.90	21230531.00	21230531.12	0.0088	0.0072
Mercury	53415-05-12 15:22 G	21230619.02	21230619.14	21230619.30	0.0088	0.0061
Mercury	53415-08-08 18:58 G	21230707.14	21230707.29	21230707.47	0.0088	0.0050
Mercury	53415-11-04 22:34 G	21230795.28	21230795.44	21230795.63	0.0088	0.0039
Mercury	53416-02-01 02:24 G	21230883.42	21230883.60	21230883.79	0.0088	0.0027
Mercury	53416-04-29 06:00 G	21230971.56	21230971.75	21230971.95	0.0088	0.0016
Mercury	53416-07-26 09:50 G	21231059.71	21231059.91	21231060.10	0.0088	0.0004

Mercury	53416-10-22 13:12 G	21231147.86	21231148.05	21231148.25	0.0088	0.0008
Mercury	53417-01-18 17:02 G	21231236.02	21231236.21	21231236.40	0.0088	0.0019
Mercury	53417-04-16 20:24 G	21231324.18	21231324.35	21231324.55	0.0088	0.0030
Mercury	53417-07-14 00:00 G	21231412.34	21231412.50	21231412.69	0.0088	0.0042
Mercury	53417-10-10 03:50 G	21231500.51	21231500.66	21231500.82	0.0088	0.0053
Mercury	53418-01-06 07:12 G	21231588.68	21231588.80	21231588.95	0.0088	0.0065
Mercury	53418-04-04 11:02 G	21231676.87	21231676.96	21231677.07	0.0088	0.0076
Mercury	53418-07-01 14:24 G	21231765.10	21231765.10	21231765.15	0.0088	0.0088
Moon	53427-08-19 14:53 G	21235101.04	21235101.12	21235101.23	0.0089	0.0082
Earth	53427-08-19 17:31 G	21235101.15	21235101.23	21235101.38	0.0089	0.0079 *
Earth	53428-08-21 05:17 G	21235468.52	21235468.72	21235468.94	0.0089	0.0049
Moon	53428-08-21 07:41 G	21235468.62	21235468.82	21235469.06	0.0089	0.0047 *
Moon	53429-08-23 14:53 G	21235835.88	21235836.12	21235836.37	0.0089	0.0022
Earth	53429-08-23 16:34 G	21235835.95	21235836.19	21235836.45	0.0089	0.0020 *
Moon	53430-08-26 03:50 G	21236203.40	21236203.66	21236203.93	0.0089	0.0013
Earth	53430-08-26 03:50 G	21236203.41	21236203.66	21236203.92	0.0089	0.0010 *
Earth	53431-08-28 15:07 G	21236570.91	21236571.13	21236571.37	0.0089	0.0039
Moon	53431-08-28 15:50 G	21236570.95	21236571.16	21236571.40	0.0089	0.0037 *
Moon	53432-08-30 00:00 G	21236938.37	21236938.50	21236938.68	0.0089	0.0071
Earth	53432-08-30 01:55 G	21236938.45	21236938.58	21236938.77	0.0089	0.0069 *
Venus	53446-08-30 04:19 G	21242051.61	21242051.68	21242051.77	0.0089	0.0083
Venus	53447-04-12 17:17 G	21242277.12	21242277.22	21242277.36	0.0089	0.0076
Venus	53447-11-24 06:43 G	21242502.65	21242502.78	21242502.94	0.0089	0.0068
Venus	53448-07-06 20:10 G	21242728.19	21242728.34	21242728.52	0.0089	0.0060
Venus	53449-02-17 09:36 G	21242953.73	21242953.90	21242954.09	0.0089	0.0052
Venus	53449-09-30 22:48 G	21243179.27	21243179.45	21243179.66	0.0090	0.0044
Venus	53450-05-14 12:14 G	21243404.81	21243405.01	21243405.22	0.0090	0.0036
Venus	53450-12-26 01:26 G	21243630.36	21243630.56	21243630.78	0.0090	0.0028
Venus	53451-08-08 14:53 G	21243855.92	21243856.12	21243856.34	0.0090	0.0020
Venus	53452-03-21 04:19 G	21244081.47	21244081.68	21244081.90	0.0090	0.0012

Venus	53452-11-01 17:46 G	21244307.02	21244307.24	21244307.46	0.0090	0.0004
Venus	53453-06-15 06:58 G	21244532.57	21244532.79	21244533.01	0.0090	0.0004
Venus	53454-01-26 20:10 G	21244758.13	21244758.34	21244758.56	0.0090	0.0013
Venus	53454-09-09 09:36 G	21244983.69	21244983.90	21244984.12	0.0090	0.0021
Venus	53455-04-22 22:48 G	21245209.25	21245209.45	21245209.67	0.0090	0.0029
Venus	53455-12-04 12:00 G	21245434.81	21245435.00	21245435.21	0.0090	0.0037
Venus	53456-07-17 01:26 G	21245660.38	21245660.56	21245660.76	0.0090	0.0045
Venus	53457-02-27 14:53 G	21245885.96	21245886.12	21245886.31	0.0090	0.0053
Venus	53457-10-11 04:05 G	21246111.53	21246111.67	21246111.85	0.0090	0.0061
Venus	53458-05-24 17:31 G	21246337.11	21246337.23	21246337.39	0.0090	0.0069
Venus	53459-01-05 06:43 G	21246562.69	21246562.78	21246562.92	0.0090	0.0077
Venus	53459-08-18 20:10 G	21246788.30	21246788.34	21246788.44	0.0090	0.0085
Saturn	53464-11-27 16:05 G	21248715.61	21248716.17	21248716.84	0.0090	0.0038
Mars	53467-02-23 06:29 G	21249533.68	21249533.77	21249533.94	0.0090	0.0083
Mars	53469-01-19 09:50 G	21250229.66	21250229.91	21250230.20	0.0090	0.0052
Mercury	53495-03-19 06:43 G	21259784.76	21259784.78	21259784.82	0.0089	0.0086
Mercury	53495-06-15 08:10 G	21259872.78	21259872.84	21259872.90	0.0089	0.0078
Mercury	53495-09-11 09:36 G	21259960.82	21259960.90	21259960.98	0.0089	0.0070
Mercury	53495-12-08 10:34 G	21260048.86	21260048.94	21260049.05	0.0089	0.0063
Mercury	53496-03-05 12:00 G	21260136.90	21260137.00	21260137.11	0.0089	0.0055
Mercury	53496-06-01 13:26 G	21260224.95	21260225.06	21260225.17	0.0089	0.0047
Mercury	53496-08-28 14:38 G	21260313.00	21260313.11	21260313.24	0.0089	0.0039
Mercury	53496-11-24 16:05 G	21260401.05	21260401.17	21260401.30	0.0089	0.0031
Mercury	53497-02-20 17:31 G	21260489.10	21260489.23	21260489.36	0.0089	0.0023
Mercury	53497-05-19 18:43 G	21260577.15	21260577.28	21260577.41	0.0089	0.0016
Mercury	53497-08-15 20:10 G	21260665.21	21260665.34	21260665.47	0.0089	0.0008
Mercury	53497-11-11 21:22 G	21260753.26	21260753.39	21260753.52	0.0089	0.0002
Mercury	53498-02-07 22:48 G	21260841.32	21260841.45	21260841.58	0.0089	0.0008
Mercury	53498-05-07 00:00 G	21260929.37	21260929.50	21260929.63	0.0089	0.0016
Mercury	53498-08-03 01:12 G	21261017.43	21261017.55	21261017.68	0.0089	0.0024

Mercury	53498-10-30 02:24 G	21261105.49	21261105.60	21261105.73	0.0089	0.0032
Mercury	53499-01-26 03:50 G	21261193.55	21261193.66	21261193.78	0.0089	0.0039
Mercury	53499-04-24 05:02 G	21261281.61	21261281.71	21261281.83	0.0089	0.0047
Mercury	53499-07-21 06:14 G	21261369.67	21261369.76	21261369.87	0.0089	0.0055
Mercury	53499-10-17 07:26 G	21261457.73	21261457.81	21261457.92	0.0089	0.0063
Mercury	53500-01-13 08:53 G	21261545.80	21261545.87	21261545.96	0.0089	0.0070
Mercury	53500-04-11 10:05 G	21261633.87	21261633.92	21261633.99	0.0089	0.0078
Mercury	53500-07-08 11:17 G	21261721.95	21261721.97	21261722.02	0.0089	0.0086
Moon	53509-02-17 09:36 G	21264867.75	21264867.90	21264868.10	0.0088	0.0065
Earth	53509-02-17 12:43 G	21264867.89	21264868.03	21264868.21	0.0088	0.0069 *
Jupiter	53509-11-25 12:29 G	21265148.51	21265149.02	21265149.57	0.0088	0.0022
Earth	53510-02-20 00:43 G	21265235.32	21265235.53	21265235.78	0.0088	0.0040
Moon	53510-02-20 03:36 G	21265235.44	21265235.65	21265235.90	0.0088	0.0044 *
Moon	53511-02-22 12:14 G	21265602.76	21265603.01	21265603.26	0.0088	0.0005
Earth	53511-02-22 13:26 G	21265602.80	21265603.06	21265603.31	0.0088	0.0010 *
Moon	53512-02-25 01:26 G	21265970.30	21265970.56	21265970.83	0.0088	0.0016
Earth	53512-02-25 01:26 G	21265970.31	21265970.56	21265970.81	0.0088	0.0020 *
Earth	53513-02-26 12:58 G	21266337.84	21266338.04	21266338.28	0.0088	0.0049
Moon	53513-02-26 13:55 G	21266337.90	21266338.08	21266338.29	0.0088	0.0054 *
Moon	53514-02-28 22:19 G	21266705.30	21266705.43	21266705.59	0.0088	0.0074
Earth	53514-03-01 00:43 G	21266705.44	21266705.53	21266705.67	0.0088	0.0079 *
Venus	53528-03-05 14:10 G	21271824.02	21271824.09	21271824.19	0.0088	0.0081
Venus	53528-10-17 02:38 G	21272049.52	21272049.61	21272049.75	0.0088	0.0074
Venus	53529-05-30 15:50 G	21272275.02	21272275.16	21272275.31	0.0088	0.0066
Venus	53530-01-11 04:19 G	21272500.53	21272500.68	21272500.86	0.0088	0.0059
Venus	53530-08-24 17:17 G	21272726.05	21272726.22	21272726.40	0.0088	0.0051
Venus	53531-04-07 05:46 G	21272951.56	21272951.74	21272951.94	0.0088	0.0044
Venus	53531-11-18 18:43 G	21273177.08	21273177.28	21273177.48	0.0088	0.0036
Venus	53532-07-01 07:12 G	21273402.60	21273402.80	21273403.02	0.0088	0.0029
Venus	53533-02-11 20:10 G	21273628.13	21273628.34	21273628.56	0.0088	0.0021

Venus	53533-09-25 08:53 G	21273853.66	21273853.87	21273854.09	0.0088	0.0014
Venus	53534-05-08 21:36 G	21274079.18	21274079.40	21274079.62	0.0088	0.0006
Venus	53534-12-20 10:19 G	21274304.71	21274304.93	21274305.15	0.0088	0.0002
Venus	53535-08-02 23:02 G	21274530.24	21274530.46	21274530.68	0.0088	0.0009
Venus	53536-03-15 11:46 G	21274755.78	21274755.99	21274756.21	0.0088	0.0017
Venus	53536-10-27 00:14 G	21274981.31	21274981.51	21274981.74	0.0088	0.0025
Venus	53537-06-09 13:12 G	21275206.85	21275207.05	21275207.26	0.0088	0.0032
Venus	53538-01-21 01:41 G	21275432.39	21275432.57	21275432.78	0.0088	0.0040
Venus	53538-09-03 14:38 G	21275657.93	21275658.11	21275658.30	0.0088	0.0047
Venus	53539-04-17 02:53 G	21275883.47	21275883.62	21275883.81	0.0088	0.0055
Venus	53539-11-28 15:36 G	21276109.01	21276109.15	21276109.32	0.0088	0.0062
Venus	53540-07-11 04:34 G	21276334.56	21276334.69	21276334.83	0.0088	0.0069
Venus	53541-02-21 16:48 G	21276560.12	21276560.20	21276560.33	0.0088	0.0077
Venus	53541-10-05 05:31 G	21276785.69	21276785.73	21276785.81	0.0088	0.0084
Mars	53550-10-14 01:26 G	21280081.27	21280081.56	21280081.86	0.0088	0.0002
Mercury	53579-08-15 05:46 G	21290613.68	21290613.74	21290613.83	0.0088	0.0081
Mercury	53579-11-11 09:22 G	21290701.78	21290701.89	21290702.02	0.0088	0.0069
Mercury	53580-02-07 12:43 G	21290789.90	21290790.03	21290790.20	0.0088	0.0059
Mercury	53580-05-05 16:48 G	21290878.04	21290878.20	21290878.36	0.0088	0.0047
Mercury	53580-08-01 20:10 G	21290966.17	21290966.34	21290966.53	0.0088	0.0036
Mercury	53580-10-28 23:46 G	21291054.31	21291054.49	21291054.69	0.0088	0.0025
Mercury	53581-01-25 03:22 G	21291142.46	21291142.64	21291142.84	0.0088	0.0014
Mercury	53581-04-23 07:12 G	21291230.60	21291230.80	21291230.99	0.0088	0.0002
Mercury	53581-07-20 10:48 G	21291318.75	21291318.95	21291319.14	0.0088	0.0010
Mercury	53581-10-16 14:24 G	21291406.91	21291407.10	21291407.29	0.0088	0.0021
Mercury	53582-01-12 17:46 G	21291495.07	21291495.24	21291495.43	0.0088	0.0033
Mercury	53582-04-10 21:36 G	21291583.23	21291583.40	21291583.57	0.0088	0.0044
Mercury	53582-07-08 00:58 G	21291671.40	21291671.54	21291671.71	0.0088	0.0055
Mercury	53582-10-04 04:34 G	21291759.58	21291759.69	21291759.84	0.0088	0.0067
Mercury	53582-12-31 08:38 G	21291847.77	21291847.86	21291847.95	0.0088	0.0078

Moon	53592-08-21 10:48 G	21295368.82	21295368.95	21295369.13	0.0089	0.0069
Earth	53592-08-21 11:17 G	21295368.83	21295368.97	21295369.17	0.0089	0.0066 *
Moon	53593-08-23 22:48 G	21295736.21	21295736.45	21295736.70	0.0089	0.0033
Earth	53593-08-23 22:48 G	21295736.23	21295736.45	21295736.70	0.0089	0.0037 *
Earth	53594-08-26 10:19 G	21296103.68	21296103.93	21296104.19	0.0089	0.0007
Moon	53594-08-26 12:14 G	21296103.76	21296104.01	21296104.26	0.0089	0.0010 *
Moon	53595-08-28 18:29 G	21296471.03	21296471.27	21296471.53	0.0089	0.0025
Earth	53595-08-28 21:07 G	21296471.15	21296471.38	21296471.65	0.0089	0.0023 *
Earth	53596-08-30 08:24 G	21296838.66	21296838.85	21296839.07	0.0089	0.0052
Moon	53596-08-30 11:46 G	21296838.79	21296838.99	21296839.21	0.0089	0.0048 *
Moon	53597-09-01 15:36 G	21297206.11	21297206.15	21297206.26	0.0089	0.0085
Earth	53597-09-01 19:55 G	21297206.24	21297206.33	21297206.44	0.0089	0.0081 *
Venus	53610-12-02 12:14 G	21302045.95	21302046.01	21302046.10	0.0089	0.0084
Venus	53611-07-16 01:55 G	21302271.47	21302271.58	21302271.70	0.0089	0.0076
Venus	53612-02-26 14:53 G	21302497.00	21302497.12	21302497.29	0.0089	0.0069
Venus	53612-10-09 04:19 G	21302722.54	21302722.68	21302722.86	0.0089	0.0061
Venus	53613-05-22 17:46 G	21302948.08	21302948.24	21302948.43	0.0089	0.0053
Venus	53614-01-03 07:12 G	21303173.62	21303173.80	21303174.00	0.0089	0.0045
Venus	53614-08-16 20:38 G	21303399.17	21303399.36	21303399.57	0.0090	0.0037
Venus	53615-03-30 10:05 G	21303624.72	21303624.92	21303625.14	0.0090	0.0029
Venus	53615-11-10 23:31 G	21303850.27	21303850.48	21303850.70	0.0090	0.0021
Venus	53616-06-23 12:58 G	21304075.82	21304076.04	21304076.26	0.0090	0.0013
Venus	53617-02-04 02:10 G	21304301.37	21304301.59	21304301.81	0.0090	0.0005
Venus	53617-09-17 15:36 G	21304526.93	21304527.15	21304527.37	0.0090	0.0003
Venus	53618-05-01 04:48 G	21304752.49	21304752.70	21304752.92	0.0090	0.0011
Venus	53618-12-12 18:14 G	21304978.04	21304978.26	21304978.47	0.0090	0.0019
Venus	53619-07-26 07:41 G	21305203.61	21305203.82	21305204.03	0.0090	0.0027
Venus	53620-03-07 20:53 G	21305429.17	21305429.37	21305429.57	0.0090	0.0035
Venus	53620-10-19 10:05 G	21305654.73	21305654.92	21305655.12	0.0090	0.0043
Venus	53621-06-01 23:17 G	21305880.30	21305880.47	21305880.66	0.0090	0.0051



Venus	53622-01-13 12:29 G	21306105.87	21306106.02	21306106.20	0.0090	0.0059
Venus	53622-08-27 01:55 G	21306331.45	21306331.58	21306331.74	0.0090	0.0067
Venus	53623-04-09 15:07 G	21306557.04	21306557.13	21306557.28	0.0090	0.0075
Venus	53623-11-21 05:02 G	21306782.63	21306782.71	21306782.80	0.0090	0.0082
Mars	53632-09-02 17:31 G	21309990.90	21309991.23	21309991.57	0.0090	0.0006
Mercury	53659-12-15 06:14 G	21319955.72	21319955.76	21319955.80	0.0089	0.0084
Mercury	53660-03-12 07:12 G	21320043.75	21320043.80	21320043.88	0.0089	0.0077
Mercury	53660-06-08 08:38 G	21320131.79	21320131.86	21320131.95	0.0089	0.0069
Mercury	53660-09-04 09:50 G	21320219.83	21320219.91	21320220.02	0.0089	0.0061
Mercury	53660-12-01 11:17 G	21320307.87	21320307.97	21320308.09	0.0089	0.0053
Mercury	53661-02-27 12:43 G	21320395.92	21320396.03	21320396.15	0.0089	0.0045
Mercury	53661-05-26 14:10 G	21320483.97	21320484.09	21320484.21	0.0089	0.0037
Mercury	53661-08-22 15:22 G	21320572.02	21320572.14	21320572.27	0.0089	0.0029
Mercury	53661-11-18 16:34 G	21320660.07	21320660.19	21320660.33	0.0089	0.0022
Mercury	53662-02-14 18:00 G	21320748.12	21320748.25	21320748.39	0.0089	0.0014
Mercury	53662-05-13 19:26 G	21320836.18	21320836.31	21320836.44	0.0089	0.0006
Mercury	53662-08-09 20:38 G	21320924.23	21320924.36	21320924.50	0.0089	0.0004
Mercury	53662-11-05 22:05 G	21321012.29	21321012.42	21321012.55	0.0089	0.0010
Mercury	53663-02-01 23:17 G	21321100.34	21321100.47	21321100.60	0.0089	0.0018
Mercury	53663-05-01 00:29 G	21321188.40	21321188.52	21321188.65	0.0089	0.0026
Mercury	53663-07-28 01:55 G	21321276.46	21321276.58	21321276.70	0.0089	0.0033
Mercury	53663-10-24 03:07 G	21321364.52	21321364.63	21321364.75	0.0089	0.0041
Mercury	53664-01-20 04:19 G	21321452.58	21321452.68	21321452.80	0.0089	0.0049
Mercury	53664-04-17 05:31 G	21321540.64	21321540.73	21321540.84	0.0089	0.0057
Mercury	53664-07-14 06:58 G	21321628.71	21321628.79	21321628.89	0.0089	0.0064
Mercury	53664-10-10 08:10 G	21321716.77	21321716.84	21321716.93	0.0089	0.0072
Mercury	53665-01-06 09:22 G	21321804.85	21321804.89	21321804.96	0.0089	0.0080
Mercury	53665-04-04 10:48 G	21321892.94	21321892.95	21321892.98	0.0089	0.0087
Earth	53673-02-16 18:29 G	21324768.22	21324768.27	21324768.37	0.0088	0.0085
Moon	53673-02-16 20:10 G	21324768.28	21324768.34	21324768.44	0.0088	0.0084 *

Moon	53674-02-19 05:46 G	21325135.57	21325135.74	21325135.95	0.0088	0.0056
Earth	53674-02-19 06:29 G	21325135.59	21325135.77	21325136.00	0.0088	0.0056 *
Moon	53675-02-21 18:00 G	21325503.01	21325503.25	21325503.52	0.0088	0.0026
Earth	53675-02-21 19:12 G	21325503.05	21325503.30	21325503.55	0.0088	0.0026 *
Earth	53676-02-24 07:26 G	21325870.55	21325870.81	21325871.07	0.0088	0.0004
Moon	53676-02-24 09:22 G	21325870.64	21325870.89	21325871.14	0.0088	0.0003 *
Moon	53677-02-25 16:48 G	21326237.95	21326238.20	21326238.45	0.0088	0.0033
Earth	53677-02-25 18:58 G	21326238.07	21326238.29	21326238.55	0.0088	0.0034 *
Earth	53678-02-28 06:58 G	21326605.63	21326605.79	21326605.99	0.0088	0.0063
Moon	53678-02-28 10:34 G	21326605.78	21326605.94	21326606.14	0.0088	0.0063 *
Venus	53692-06-06 23:31 G	21331818.42	21331818.48	21331818.58	0.0088	0.0081
Venus	53693-01-18 12:29 G	21332043.92	21332044.02	21332044.15	0.0088	0.0074
Venus	53693-09-01 00:58 G	21332269.42	21332269.54	21332269.71	0.0088	0.0067
Venus	53694-04-14 13:55 G	21332494.93	21332495.08	21332495.25	0.0088	0.0059
Venus	53694-11-26 02:24 G	21332720.44	21332720.60	21332720.80	0.0088	0.0052
Venus	53695-07-09 15:22 G	21332945.96	21332946.14	21332946.34	0.0088	0.0044
Venus	53696-02-20 04:05 G	21333171.48	21333171.67	21333171.88	0.0088	0.0037
Venus	53696-10-02 16:34 G	21333397.00	21333397.19	21333397.41	0.0088	0.0030
Venus	53697-05-16 05:17 G	21333622.52	21333622.72	21333622.94	0.0088	0.0022
Venus	53697-12-27 18:00 G	21333848.04	21333848.25	21333848.48	0.0088	0.0015
Venus	53698-08-10 06:58 G	21334073.57	21334073.79	21334074.01	0.0088	0.0007
Venus	53699-03-23 19:26 G	21334299.09	21334299.31	21334299.54	0.0088	0.0002
Venus	53699-11-04 08:10 G	21334524.62	21334524.84	21334525.06	0.0088	0.0008
Venus	53700-06-17 20:38 G	21334750.15	21334750.36	21334750.59	0.0088	0.0016
Venus	53701-01-29 09:36 G	21334975.69	21334975.90	21334976.12	0.0088	0.0023
Venus	53701-09-11 22:05 G	21335201.23	21335201.42	21335201.64	0.0088	0.0031
Venus	53702-04-25 11:02 G	21335426.76	21335426.96	21335427.16	0.0088	0.0038
Venus	53702-12-06 23:17 G	21335652.30	21335652.47	21335652.68	0.0088	0.0046
Venus	53703-07-20 12:00 G	21335877.84	21335878.00	21335878.19	0.0088	0.0053
Venus	53704-03-02 01:12 G	21336103.39	21336103.55	21336103.71	0.0088	0.0060

Venus	53704-10-13 13:26 G	21336328.94	21336329.06	21336329.22	0.0088	0.0068
Venus	53705-05-27 02:10 G	21336554.49	21336554.59	21336554.72	0.0088	0.0075
Venus	53706-01-07 14:53 G	21336780.05	21336780.12	21336780.21	0.0088	0.0082
Mars	53714-05-30 07:55 G	21339844.60	21339844.83	21339845.11	0.0088	0.0045
Mars	53716-04-23 01:26 G	21340538.39	21340538.56	21340538.79	0.0088	0.0066
Mercury	53744-05-12 02:38 G	21350784.55	21350784.61	21350784.72	0.0088	0.0080
Mercury	53744-08-08 06:43 G	21350872.66	21350872.78	21350872.90	0.0088	0.0068
Mercury	53744-11-04 10:05 G	21350960.78	21350960.92	21350961.08	0.0088	0.0057
Mercury	53745-01-31 13:41 G	21351048.91	21351049.07	21351049.25	0.0088	0.0046
Mercury	53745-04-29 17:17 G	21351137.05	21351137.22	21351137.41	0.0088	0.0034
Mercury	53745-07-26 20:53 G	21351225.19	21351225.37	21351225.57	0.0088	0.0023
Mercury	53745-10-23 00:43 G	21351313.33	21351313.53	21351313.72	0.0088	0.0012
Mercury	53746-01-19 04:19 G	21351401.48	21351401.68	21351401.87	0.0088	0.0001
Mercury	53746-04-17 07:41 G	21351489.63	21351489.82	21351490.02	0.0088	0.0011
Mercury	53746-07-14 11:17 G	21351577.79	21351577.97	21351578.17	0.0088	0.0022
Mercury	53746-10-10 14:53 G	21351665.95	21351666.12	21351666.31	0.0088	0.0034
Mercury	53747-01-06 18:43 G	21351754.11	21351754.28	21351754.45	0.0088	0.0045
Mercury	53747-04-04 22:05 G	21351842.28	21351842.42	21351842.58	0.0088	0.0057
Mercury	53747-07-02 01:55 G	21351930.46	21351930.58	21351930.71	0.0088	0.0068
Mercury	53747-09-28 05:02 G	21352018.65	21352018.71	21352018.82	0.0088	0.0080
Moon	53756-08-21 16:19 G	21355269.13	21355269.18	21355269.24	0.0089	0.0086
Earth	53756-08-21 17:17 G	21355269.16	21355269.22	21355269.34	0.0089	0.0083 *
Earth	53757-08-24 05:02 G	21355636.51	21355636.71	21355636.92	0.0089	0.0053
Moon	53757-08-24 06:43 G	21355636.60	21355636.78	21355637.01	0.0089	0.0050 *
Moon	53758-08-26 12:58 G	21356003.80	21356004.04	21356004.29	0.0089	0.0028
Earth	53758-08-26 16:05 G	21356003.94	21356004.17	21356004.43	0.0089	0.0024 *
Earth	53759-08-29 03:36 G	21356371.39	21356371.65	21356371.90	0.0089	0.0006
Moon	53759-08-29 06:58 G	21356371.54	21356371.79	21356372.05	0.0089	0.0010 *
Moon	53760-08-30 11:02 G	21356738.74	21356738.96	21356739.21	0.0089	0.0032
Earth	53760-08-30 14:38 G	21356738.88	21356739.11	21356739.35	0.0089	0.0035 *

Earth	53761-09-02 01:26 G	21357106.41	21357106.56	21357106.76	0.0089	0.0065
Moon	53761-09-02 04:34 G	21357106.55	21357106.69	21357106.88	0.0089	0.0069 *
Venus	53775-03-06 19:55 G	21362040.28	21362040.33	21362040.42	0.0089	0.0085
Venus	53775-10-18 09:22 G	21362265.79	21362265.89	21362266.01	0.0089	0.0077
Venus	53776-05-30 22:19 G	21362491.32	21362491.43	21362491.60	0.0089	0.0070
Venus	53777-01-11 12:00 G	21362716.86	21362717.00	21362717.17	0.0089	0.0062
Venus	53777-08-25 01:26 G	21362942.40	21362942.56	21362942.75	0.0089	0.0054
Venus	53778-04-07 14:53 G	21363167.94	21363168.12	21363168.32	0.0089	0.0046
Venus	53778-11-19 04:19 G	21363393.49	21363393.68	21363393.88	0.0089	0.0038
Venus	53779-07-02 17:31 G	21363619.04	21363619.23	21363619.45	0.0090	0.0031
Venus	53780-02-13 06:58 G	21363844.59	21363844.79	21363845.02	0.0090	0.0023
Venus	53780-09-25 20:24 G	21364070.14	21364070.35	21364070.58	0.0090	0.0015
Venus	53781-05-09 09:50 G	21364295.70	21364295.91	21364296.13	0.0090	0.0007
Venus	53781-12-20 23:17 G	21364521.25	21364521.47	21364521.69	0.0090	0.0002
Venus	53782-08-03 12:43 G	21364746.81	21364747.03	21364747.25	0.0090	0.0009
Venus	53783-03-17 01:55 G	21364972.37	21364972.58	21364972.80	0.0090	0.0018
Venus	53783-10-28 15:07 G	21365197.93	21365198.13	21365198.35	0.0090	0.0025
Venus	53784-06-10 04:34 G	21365423.49	21365423.69	21365423.90	0.0090	0.0033
Venus	53785-01-21 17:46 G	21365649.06	21365649.24	21365649.45	0.0090	0.0041
Venus	53785-09-04 07:12 G	21365874.63	21365874.80	21365874.99	0.0090	0.0049
Venus	53786-04-17 20:24 G	21366100.20	21366100.35	21366100.54	0.0090	0.0057
Venus	53786-11-29 09:36 G	21366325.77	21366325.90	21366326.07	0.0090	0.0065
Venus	53787-07-12 23:31 G	21366551.35	21366551.48	21366551.61	0.0090	0.0072
Venus	53788-02-23 12:29 G	21366776.94	21366777.02	21366777.14	0.0090	0.0080
Venus	53788-10-06 01:41 G	21367002.55	21367002.57	21367002.64	0.0090	0.0088
Mars	53796-04-16 23:17 G	21369752.24	21369752.47	21369752.71	0.0090	0.0064
Mars	53798-03-14 02:24 G	21370448.42	21370448.60	21370448.82	0.0090	0.0071
Mercury	53824-09-12 05:17 G	21380126.68	21380126.72	21380126.77	0.0089	0.0083
Mercury	53824-12-09 06:29 G	21380214.71	21380214.77	21380214.85	0.0089	0.0075
Mercury	53825-03-07 07:55 G	21380302.75	21380302.83	21380302.92	0.0089	0.0067

Mercury	53825-06-03 09:22 G	21380390.79	21380390.89	21380390.99	0.0089	0.0059
Mercury	53825-08-30 10:48 G	21380478.84	21380478.95	21380479.06	0.0089	0.0051
Mercury	53825-11-26 11:46 G	21380566.89	21380566.99	21380567.12	0.0089	0.0044
Mercury	53826-02-22 13:12 G	21380654.94	21380655.05	21380655.18	0.0089	0.0036
Mercury	53826-05-21 14:38 G	21380742.99	21380743.11	21380743.24	0.0089	0.0028
Mercury	53826-08-17 16:05 G	21380831.04	21380831.17	21380831.30	0.0089	0.0020
Mercury	53826-11-13 17:17 G	21380919.09	21380919.22	21380919.35	0.0089	0.0012
Mercury	53827-02-09 18:43 G	21381007.15	21381007.28	21381007.41	0.0089	0.0005
Mercury	53827-05-08 19:55 G	21381095.20	21381095.33	21381095.46	0.0089	0.0004
Mercury	53827-08-04 21:07 G	21381183.25	21381183.38	21381183.52	0.0089	0.0012
Mercury	53827-10-31 22:34 G	21381271.31	21381271.44	21381271.57	0.0089	0.0019
Mercury	53828-01-27 23:46 G	21381359.37	21381359.49	21381359.62	0.0089	0.0027
Mercury	53828-04-25 00:58 G	21381447.43	21381447.54	21381447.67	0.0089	0.0035
Mercury	53828-07-22 02:10 G	21381535.49	21381535.59	21381535.72	0.0089	0.0043
Mercury	53828-10-18 03:36 G	21381623.55	21381623.65	21381623.76	0.0089	0.0050
Mercury	53829-01-14 04:48 G	21381711.61	21381711.70	21381711.81	0.0089	0.0058
Mercury	53829-04-12 06:00 G	21381799.68	21381799.75	21381799.85	0.0089	0.0066
Mercury	53829-07-09 07:41 G	21381887.75	21381887.82	21381887.89	0.0089	0.0073
Mercury	53829-10-05 08:38 G	21381975.82	21381975.86	21381975.92	0.0089	0.0081
Mercury	53830-01-01 10:05 G	21382063.92	21382063.92	21382063.93	0.0089	0.0089
Moon	53838-02-20 11:02 G	21385035.81	21385035.96	21385036.16	0.0088	0.0068
Earth	53838-02-20 12:29 G	21385035.89	21385036.02	21385036.19	0.0088	0.0072 *
Earth	53839-02-23 00:29 G	21385403.31	21385403.52	21385403.77	0.0088	0.0042
Moon	53839-02-23 03:07 G	21385403.43	21385403.63	21385403.86	0.0088	0.0047 *
Moon	53840-02-25 09:22 G	21385770.63	21385770.89	21385771.16	0.0088	0.0009
Earth	53840-02-25 12:43 G	21385770.78	21385771.03	21385771.29	0.0088	0.0013 *
Earth	53841-02-27 00:29 G	21386138.28	21386138.52	21386138.79	0.0088	0.0018
Moon	53841-02-27 04:05 G	21386138.42	21386138.67	21386138.93	0.0088	0.0013 *
Moon	53842-03-01 08:38 G	21386505.68	21386505.86	21386506.10	0.0088	0.0052
Earth	53842-03-01 12:29 G	21386505.82	21386506.02	21386506.26	0.0088	0.0047 *

Earth	53843-03-04 00:43 G	21386873.41	21386873.53	21386873.68	0.0088	0.0076
Moon	53843-03-04 03:07 G	21386873.51	21386873.63	21386873.82	0.0088	0.0072 *
Venus	53856-09-10 08:53 G	21391812.80	21391812.87	21391812.96	0.0088	0.0081
Venus	53857-04-23 21:36 G	21392038.29	21392038.40	21392038.52	0.0088	0.0074
Venus	53857-12-05 10:05 G	21392263.80	21392263.92	21392264.08	0.0088	0.0067
Venus	53858-07-18 22:48 G	21392489.31	21392489.45	21392489.63	0.0088	0.0060
Venus	53859-03-01 11:46 G	21392714.82	21392714.99	21392715.18	0.0088	0.0052
Venus	53859-10-13 00:14 G	21392940.34	21392940.51	21392940.72	0.0088	0.0045
Venus	53860-05-25 12:58 G	21393165.86	21393166.04	21393166.25	0.0088	0.0038
Venus	53861-01-06 01:55 G	21393391.38	21393391.58	21393391.79	0.0088	0.0030
Venus	53861-08-19 14:38 G	21393616.90	21393617.11	21393617.33	0.0088	0.0023
Venus	53862-04-02 03:22 G	21393842.42	21393842.64	21393842.86	0.0088	0.0015
Venus	53862-11-13 15:50 G	21394067.95	21394068.16	21394068.39	0.0088	0.0008
Venus	53863-06-27 04:34 G	21394293.47	21394293.69	21394293.91	0.0088	0.0001
Venus	53864-02-07 17:31 G	21394519.01	21394519.23	21394519.45	0.0088	0.0007
Venus	53864-09-20 06:00 G	21394744.54	21394744.75	21394744.97	0.0088	0.0014
Venus	53865-05-03 18:29 G	21394970.07	21394970.27	21394970.49	0.0088	0.0022
Venus	53865-12-15 06:58 G	21395195.60	21395195.79	21395196.02	0.0088	0.0030
Venus	53866-07-28 19:41 G	21395421.14	21395421.32	21395421.54	0.0088	0.0037
Venus	53867-03-11 08:38 G	21395646.68	21395646.86	21395647.06	0.0088	0.0044
Venus	53867-10-22 21:07 G	21395872.22	21395872.38	21395872.58	0.0088	0.0052
Venus	53868-06-04 09:50 G	21396097.76	21396097.91	21396098.09	0.0088	0.0059
Venus	53869-01-15 22:34 G	21396323.31	21396323.44	21396323.60	0.0088	0.0066
Venus	53869-08-29 11:31 G	21396548.86	21396548.98	21396549.10	0.0088	0.0073
Venus	53870-04-11 23:31 G	21396774.42	21396774.48	21396774.60	0.0088	0.0081
Venus	53870-11-23 12:29 G	21397000.02	21397000.02	21397000.05	0.0088	0.0088
Mars	53879-12-08 07:12 G	21400301.52	21400301.80	21400302.10	0.0088	0.0019
Mercury	53909-02-08 00:00 G	21410955.42	21410955.50	21410955.60	0.0088	0.0078
Mercury	53909-05-07 03:36 G	21411043.53	21411043.65	21411043.78	0.0088	0.0067
Mercury	53909-08-03 06:58 G	21411131.66	21411131.79	21411131.96	0.0088	0.0056

Mercury	53909-10-30 10:34 G	21411219.79	21411219.94	21411220.12	0.0088	0.0045
Mercury	53910-01-26 14:10 G	21411307.92	21411308.09	21411308.28	0.0088	0.0034
Mercury	53910-04-24 18:00 G	21411396.06	21411396.25	21411396.44	0.0088	0.0022
Mercury	53910-07-21 21:36 G	21411484.21	21411484.40	21411484.60	0.0088	0.0011
Mercury	53910-10-18 01:12 G	21411572.36	21411572.55	21411572.75	0.0088	0.0002
Mercury	53911-01-14 04:48 G	21411660.51	21411660.70	21411660.90	0.0088	0.0012
Mercury	53911-04-12 08:24 G	21411748.66	21411748.85	21411749.04	0.0088	0.0023
Mercury	53911-07-09 12:00 G	21411836.82	21411837.00	21411837.18	0.0088	0.0035
Mercury	53911-10-05 15:22 G	21411924.99	21411925.14	21411925.32	0.0088	0.0047
Mercury	53912-01-01 18:58 G	21412013.16	21412013.29	21412013.45	0.0088	0.0058
Mercury	53912-03-29 22:48 G	21412101.34	21412101.45	21412101.58	0.0088	0.0069
Mercury	53912-06-26 02:10 G	21412189.53	21412189.59	21412189.69	0.0088	0.0081
Moon	53921-08-25 06:14 G	21415536.64	21415536.76	21415536.94	0.0089	0.0072
Earth	53921-08-25 09:36 G	21415536.77	21415536.90	21415537.08	0.0089	0.0071 *
Earth	53922-08-27 21:07 G	21415904.16	21415904.38	21415904.62	0.0089	0.0041
Moon	53922-08-28 00:43 G	21415904.32	21415904.53	21415904.78	0.0089	0.0039 *
Moon	53923-08-30 05:17 G	21416271.48	21416271.72	21416271.98	0.0089	0.0013
Earth	53923-08-30 08:24 G	21416271.61	21416271.85	21416272.11	0.0089	0.0012 *
Earth	53924-08-31 19:41 G	21416639.07	21416639.32	21416639.58	0.0089	0.0018
Moon	53924-08-31 22:19 G	21416639.18	21416639.43	21416639.69	0.0089	0.0020 *
Moon	53925-09-03 05:02 G	21417006.51	21417006.71	21417006.94	0.0089	0.0046
Earth	53925-09-03 06:29 G	21417006.58	21417006.77	21417007.01	0.0089	0.0048 *
Earth	53926-09-05 17:46 G	21417374.13	21417374.24	21417374.38	0.0089	0.0077
Moon	53926-09-05 18:00 G	21417374.13	21417374.25	21417374.38	0.0089	0.0078 *
Venus	53939-06-10 03:22 G	21422034.61	21422034.64	21422034.73	0.0089	0.0086
Venus	53940-01-21 17:02 G	21422260.12	21422260.21	21422260.33	0.0089	0.0078
Venus	53940-09-03 06:43 G	21422485.64	21422485.78	21422485.91	0.0089	0.0070
Venus	53941-04-16 19:26 G	21422711.17	21422711.31	21422711.49	0.0089	0.0063
Venus	53941-11-28 08:53 G	21422936.71	21422936.87	21422937.06	0.0089	0.0055
Venus	53942-07-11 22:34 G	21423162.26	21423162.44	21423162.63	0.0089	0.0047

Venus	53943-02-22 11:31 G	21423387.80	21423387.98	21423388.20	0.0089	0.0040
Venus	53943-10-06 00:58 G	21423613.35	21423613.54	21423613.76	0.0090	0.0032
Venus	53944-05-18 14:24 G	21423838.90	21423839.10	21423839.32	0.0090	0.0024
Venus	53944-12-30 03:50 G	21424064.45	21424064.66	21424064.88	0.0090	0.0016
Venus	53945-08-12 17:31 G	21424290.01	21424290.23	21424290.45	0.0090	0.0008
Venus	53946-03-26 06:43 G	21424515.56	21424515.78	21424516.00	0.0090	0.0002
Venus	53946-11-06 20:10 G	21424741.12	21424741.34	21424741.56	0.0090	0.0008
Venus	53947-06-20 09:22 G	21424966.68	21424966.89	21424967.11	0.0090	0.0016
Venus	53948-01-31 22:34 G	21425192.24	21425192.44	21425192.66	0.0090	0.0024
Venus	53948-09-13 12:00 G	21425417.81	21425418.00	21425418.22	0.0090	0.0032
Venus	53949-04-27 01:26 G	21425643.37	21425643.56	21425643.76	0.0090	0.0039
Venus	53949-12-08 14:38 G	21425868.93	21425869.11	21425869.31	0.0090	0.0047
Venus	53950-07-22 03:50 G	21426094.50	21426094.66	21426094.85	0.0090	0.0055
Venus	53951-03-04 17:31 G	21426320.08	21426320.23	21426320.39	0.0090	0.0062
Venus	53951-10-16 06:43 G	21426545.65	21426545.78	21426545.93	0.0090	0.0070
Venus	53952-05-28 19:41 G	21426771.23	21426771.32	21426771.45	0.0090	0.0078
Venus	53953-01-09 09:22 G	21426996.83	21426996.89	21426996.97	0.0090	0.0085
Mars	53961-10-27 06:29 G	21430209.43	21430209.77	21430210.10	0.0090	0.0011
Mercury	53989-06-10 04:19 G	21440297.64	21440297.68	21440297.74	0.0089	0.0082
Mercury	53989-09-06 05:46 G	21440385.67	21440385.74	21440385.81	0.0089	0.0074
Mercury	53989-12-03 07:12 G	21440473.71	21440473.80	21440473.89	0.0089	0.0066
Mercury	53990-03-01 08:24 G	21440561.76	21440561.85	21440561.95	0.0089	0.0058
Mercury	53990-05-28 09:36 G	21440649.80	21440649.90	21440650.02	0.0089	0.0051
Mercury	53990-08-24 11:02 G	21440737.85	21440737.96	21440738.08	0.0089	0.0043
Mercury	53990-11-20 12:14 G	21440825.90	21440826.01	21440826.14	0.0089	0.0035
Mercury	53991-02-16 13:41 G	21440913.95	21440914.07	21440914.20	0.0089	0.0027
Mercury	53991-05-15 15:07 G	21441002.00	21441002.13	21441002.26	0.0089	0.0019
Mercury	53991-08-11 16:19 G	21441090.05	21441090.18	21441090.32	0.0089	0.0012
Mercury	53991-11-07 17:46 G	21441178.11	21441178.24	21441178.37	0.0089	0.0004
Mercury	53992-02-03 18:58 G	21441266.16	21441266.29	21441266.43	0.0089	0.0005



Mercury	53992-05-01 20:24 G	21441354.22	21441354.35	21441354.48	0.0089	0.0012
Mercury	53992-07-28 21:36 G	21441442.27	21441442.40	21441442.53	0.0089	0.0020
Mercury	53992-10-24 22:48 G	21441530.33	21441530.45	21441530.58	0.0089	0.0028
Mercury	53993-01-21 00:00 G	21441618.39	21441618.50	21441618.63	0.0089	0.0036
Mercury	53993-04-19 01:26 G	21441706.45	21441706.56	21441706.68	0.0089	0.0043
Mercury	53993-07-16 02:38 G	21441794.51	21441794.61	21441794.73	0.0089	0.0051
Mercury	53993-10-12 03:50 G	21441882.57	21441882.66	21441882.77	0.0089	0.0059
Mercury	53994-01-08 05:02 G	21441970.64	21441970.71	21441970.81	0.0089	0.0067
Mercury	53994-04-06 06:43 G	21442058.71	21442058.78	21442058.85	0.0089	0.0074
Mercury	53994-07-03 07:41 G	21442146.79	21442146.82	21442146.88	0.0089	0.0082

# 55TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 55th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	54002-02-20 18:00 G	21444936.23	21444936.25	21444936.28	0.0089	0.0088		
Moon	54002-02-20 20:38 G	21444936.31	21444936.36	21444936.43	0.0089	0.0086		
Moon	54003-02-23 02:10 G	21445303.42	21445303.59	21445303.79	0.0088	0.0061		
Earth	54003-02-23 05:46 G	21445303.56	21445303.74	21445303.95	0.0088	0.0059	*	
Earth	54004-02-25 17:31 G	21445671.00	21445671.23	21445671.49	0.0088	0.0030		
Moon	54004-02-25 21:36 G	21445671.15	21445671.40	21445671.65	0.0088	0.0027	*	
Moon	54005-02-27 02:53 G	21446038.37	21446038.62	21446038.88	0.0088	0.0002		
Earth	54005-02-27 06:00 G	21446038.49	21446038.75	21446039.01	0.0088	0.0001	*	

Earth	54006-03-01 18:00 G	21446406.01	21446406.25	21446406.50	0.0088	0.0030
Moon	54006-03-01 20:24 G	21446406.12	21446406.35	21446406.62	0.0088	0.0032 *
Moon	54007-03-04 04:48 G	21446773.52	21446773.70	21446773.90	0.0088	0.0058
Earth	54007-03-04 05:46 G	21446773.57	21446773.74	21446773.95	0.0088	0.0060 *
Venus	54020-12-13 17:02 G	21451807.16	21451807.21	21451807.32	0.0088	0.0082
Venus	54021-07-27 05:46 G	21452032.66	21452032.74	21452032.89	0.0088	0.0075
Venus	54022-03-09 18:58 G	21452258.16	21452258.29	21452258.44	0.0088	0.0067
Venus	54022-10-21 07:41 G	21452483.67	21452483.82	21452483.99	0.0088	0.0060
Venus	54023-06-03 20:24 G	21452709.19	21452709.35	21452709.54	0.0088	0.0053
Venus	54024-01-15 09:07 G	21452934.71	21452934.88	21452935.09	0.0088	0.0046
Venus	54024-08-27 22:05 G	21453160.23	21453160.42	21453160.62	0.0088	0.0038
Venus	54025-04-10 10:34 G	21453385.75	21453385.94	21453386.16	0.0088	0.0031
Venus	54025-11-21 23:17 G	21453611.27	21453611.47	21453611.69	0.0088	0.0024
Venus	54026-07-05 12:00 G	21453836.79	21453837.00	21453837.22	0.0088	0.0016
Venus	54027-02-16 00:58 G	21454062.32	21454062.54	21454062.76	0.0088	0.0009
Venus	54027-09-29 13:26 G	21454287.84	21454288.06	21454288.29	0.0088	0.0003
Venus	54028-05-12 02:10 G	21454513.37	21454513.59	21454513.81	0.0088	0.0006
Venus	54028-12-23 14:53 G	21454738.90	21454739.12	21454739.33	0.0088	0.0013
Venus	54029-08-06 03:07 G	21454964.43	21454964.63	21454964.86	0.0088	0.0021
Venus	54030-03-19 15:50 G	21455189.96	21455190.16	21455190.38	0.0088	0.0028
Venus	54030-10-31 04:48 G	21455415.50	21455415.70	21455415.90	0.0088	0.0035
Venus	54031-06-13 17:02 G	21455641.03	21455641.21	21455641.42	0.0088	0.0043
Venus	54032-01-25 05:46 G	21455866.58	21455866.74	21455866.94	0.0088	0.0050
Venus	54032-09-06 18:43 G	21456092.12	21456092.28	21456092.45	0.0088	0.0057
Venus	54033-04-20 07:26 G	21456317.66	21456317.81	21456317.96	0.0088	0.0064
Venus	54033-12-01 19:26 G	21456543.21	21456543.31	21456543.47	0.0088	0.0072
Venus	54034-07-15 08:10 G	21456768.77	21456768.84	21456768.96	0.0088	0.0079
Venus	54035-02-25 21:07 G	21456994.36	21456994.38	21456994.45	0.0088	0.0086
Mars	54043-07-24 13:55 G	21460064.82	21460065.08	21460065.37	0.0088	0.0029
Mars	54045-06-17 06:29 G	21460758.68	21460758.77	21460758.88	0.0088	0.0082

Mercury	54073-08-08 17:31 G	21471038.22	21471038.23	21471038.25	0.0088	0.0088
Mercury	54073-11-04 20:53 G	21471126.29	21471126.37	21471126.47	0.0088	0.0077
Mercury	54074-02-01 00:29 G	21471214.40	21471214.52	21471214.66	0.0088	0.0066
Mercury	54074-04-30 04:05 G	21471302.52	21471302.67	21471302.83	0.0088	0.0054
Mercury	54074-07-27 07:26 G	21471390.66	21471390.81	21471390.99	0.0088	0.0044
Mercury	54074-10-23 11:02 G	21471478.79	21471478.96	21471479.16	0.0088	0.0033
Mercury	54075-01-19 14:53 G	21471566.93	21471567.12	21471567.31	0.0088	0.0021
Mercury	54075-04-17 18:29 G	21471655.08	21471655.27	21471655.47	0.0088	0.0010
Mercury	54075-07-14 22:05 G	21471743.23	21471743.42	21471743.62	0.0088	0.0002
Mercury	54075-10-11 01:41 G	21471831.38	21471831.57	21471831.77	0.0088	0.0013
Mercury	54076-01-07 05:17 G	21471919.54	21471919.72	21471919.91	0.0088	0.0024
Mercury	54076-04-04 08:53 G	21472007.70	21472007.87	21472008.05	0.0088	0.0036
Mercury	54076-07-01 12:14 G	21472095.86	21472096.01	21472096.19	0.0088	0.0048
Mercury	54076-09-27 15:50 G	21472184.03	21472184.16	21472184.32	0.0088	0.0059
Mercury	54076-12-24 19:41 G	21472272.21	21472272.32	21472272.45	0.0088	0.0070
Mercury	54077-03-22 23:02 G	21472360.40	21472360.46	21472360.55	0.0088	0.0082
Earth	54085-08-24 14:24 G	21475437.09	21475437.10	21475437.17	0.0089	0.0088
Moon	54086-08-26 23:02 G	21475804.28	21475804.46	21475804.68	0.0089	0.0054
Earth	54086-08-27 02:24 G	21475804.41	21475804.60	21475804.79	0.0089	0.0058 *
Earth	54087-08-29 13:26 G	21476171.83	21476172.06	21476172.31	0.0089	0.0029
Moon	54087-08-29 15:36 G	21476171.90	21476172.15	21476172.39	0.0089	0.0033 *
Moon	54088-08-31 00:29 G	21476539.27	21476539.52	21476539.77	0.0089	0.0005
Earth	54088-08-31 00:58 G	21476539.28	21476539.54	21476539.80	0.0089	0.0001 *
Moon	54089-09-02 11:31 G	21476906.74	21476906.98	21476907.25	0.0089	0.0026
Earth	54089-09-02 11:46 G	21476906.76	21476906.99	21476907.24	0.0089	0.0031 *
Earth	54090-09-04 22:48 G	21477274.28	21477274.45	21477274.66	0.0089	0.0060
Moon	54090-09-05 00:29 G	21477274.38	21477274.52	21477274.72	0.0089	0.0065 *
Moon	54091-09-07 07:12 G	21477641.75	21477641.80	21477641.90	0.0089	0.0085
Venus	54103-09-12 11:17 G	21482028.91	21482028.97	21482029.03	0.0089	0.0086
Venus	54104-04-25 00:00 G	21482254.42	21482254.50	21482254.62	0.0089	0.0079

Venus	54104-12-06 13:12 G	21482479.94	21482480.05	21482480.21	0.0089	0.0072
Venus	54105-07-20 02:53 G	21482705.48	21482705.62	21482705.78	0.0089	0.0064
Venus	54106-03-02 16:19 G	21482931.01	21482931.18	21482931.36	0.0089	0.0056
Venus	54106-10-14 05:17 G	21483156.55	21483156.72	21483156.92	0.0089	0.0049
Venus	54107-05-27 18:43 G	21483382.09	21483382.28	21483382.48	0.0089	0.0041
Venus	54108-01-08 08:10 G	21483607.64	21483607.84	21483608.05	0.0089	0.0033
Venus	54108-08-20 21:22 G	21483833.19	21483833.39	21483833.62	0.0089	0.0026
Venus	54109-04-03 10:48 G	21484058.75	21484058.95	21484059.18	0.0090	0.0018
Venus	54109-11-15 00:14 G	21484284.30	21484284.51	21484284.73	0.0090	0.0010
Venus	54110-06-28 13:41 G	21484509.86	21484510.07	21484510.29	0.0090	0.0003
Venus	54111-02-09 03:07 G	21484735.41	21484735.63	21484735.85	0.0090	0.0006
Venus	54111-09-22 16:34 G	21484960.98	21484961.19	21484961.41	0.0090	0.0014
Venus	54112-05-05 05:46 G	21485186.54	21485186.74	21485186.96	0.0090	0.0022
Venus	54112-12-16 18:58 G	21485412.10	21485412.29	21485412.51	0.0090	0.0030
Venus	54113-07-30 08:53 G	21485637.67	21485637.87	21485638.07	0.0090	0.0037
Venus	54114-03-12 22:05 G	21485863.24	21485863.42	21485863.62	0.0090	0.0045
Venus	54114-10-24 11:02 G	21486088.80	21486088.96	21486089.16	0.0090	0.0053
Venus	54115-06-07 00:43 G	21486314.37	21486314.53	21486314.70	0.0090	0.0060
Venus	54116-01-18 13:41 G	21486539.95	21486540.07	21486540.24	0.0090	0.0068
Venus	54116-08-31 03:36 G	21486765.54	21486765.65	21486765.77	0.0090	0.0075
Venus	54117-04-13 16:34 G	21486991.13	21486991.19	21486991.29	0.0090	0.0083
Mars	54125-06-10 07:26 G	21489970.55	21489970.81	21489971.11	0.0090	0.0051
Mars	54127-05-07 12:29 G	21490666.97	21490667.02	21490667.15	0.0090	0.0087
Mercury	54154-03-08 03:22 G	21500468.60	21500468.64	21500468.70	0.0089	0.0081
Mercury	54154-06-04 04:48 G	21500556.63	21500556.70	21500556.78	0.0089	0.0073
Mercury	54154-08-31 06:14 G	21500644.67	21500644.76	21500644.85	0.0089	0.0065
Mercury	54154-11-27 07:12 G	21500732.71	21500732.80	21500732.92	0.0089	0.0058
Mercury	54155-02-23 08:38 G	21500820.76	21500820.86	21500820.98	0.0089	0.0050
Mercury	54155-05-22 10:05 G	21500908.81	21500908.92	21500909.04	0.0089	0.0042
Mercury	54155-08-18 11:31 G	21500996.86	21500996.98	21500997.10	0.0089	0.0034

Mercury	54155-11-14 12:43 G	21501084.91	21501085.03	21501085.16	0.0089	0.0026
Mercury	54156-02-10 14:10 G	21501172.96	21501173.09	21501173.22	0.0089	0.0018
Mercury	54156-05-08 15:22 G	21501261.01	21501261.14	21501261.28	0.0089	0.0011
Mercury	54156-08-04 16:48 G	21501349.07	21501349.20	21501349.33	0.0089	0.0003
Mercury	54156-10-31 18:00 G	21501437.12	21501437.25	21501437.39	0.0089	0.0006
Mercury	54157-01-27 19:26 G	21501525.18	21501525.31	21501525.44	0.0089	0.0013
Mercury	54157-04-25 20:38 G	21501613.24	21501613.36	21501613.49	0.0089	0.0021
Mercury	54157-07-22 21:50 G	21501701.29	21501701.41	21501701.54	0.0089	0.0029
Mercury	54157-10-18 23:02 G	21501789.35	21501789.46	21501789.59	0.0089	0.0037
Mercury	54158-01-15 00:29 G	21501877.41	21501877.52	21501877.64	0.0089	0.0044
Mercury	54158-04-13 01:41 G	21501965.47	21501965.57	21501965.69	0.0089	0.0052
Mercury	54158-07-10 02:53 G	21502053.54	21502053.62	21502053.73	0.0089	0.0060
Mercury	54158-10-06 04:34 G	21502141.60	21502141.69	21502141.77	0.0089	0.0067
Mercury	54159-01-02 05:46 G	21502229.67	21502229.74	21502229.81	0.0089	0.0075
Mercury	54159-03-31 06:43 G	21502317.75	21502317.78	21502317.84	0.0089	0.0083
Earth	54167-02-23 10:05 G	21505203.81	21505203.92	21505204.08	0.0089	0.0076
Moon	54167-02-23 13:41 G	21505203.94	21505204.07	21505204.25	0.0089	0.0072 *
Moon	54168-02-25 19:41 G	21505571.12	21505571.32	21505571.54	0.0089	0.0050
Earth	54168-02-25 22:34 G	21505571.22	21505571.44	21505571.67	0.0089	0.0046 *
Earth	54169-02-27 10:34 G	21505938.69	21505938.94	21505939.20	0.0088	0.0017
Moon	54169-02-27 12:00 G	21505938.74	21505939.00	21505939.27	0.0088	0.0013 *
Moon	54170-03-01 21:36 G	21506306.16	21506306.40	21506306.66	0.0088	0.0010
Earth	54170-03-01 22:19 G	21506306.19	21506306.43	21506306.70	0.0088	0.0014 *
Moon	54171-03-04 09:07 G	21506673.67	21506673.88	21506674.13	0.0088	0.0046
Earth	54171-03-04 10:05 G	21506673.71	21506673.92	21506674.16	0.0088	0.0043 *
Earth	54172-03-05 21:50 G	21507041.29	21507041.41	21507041.58	0.0088	0.0072
Moon	54172-03-06 00:14 G	21507041.36	21507041.51	21507041.67	0.0088	0.0069 *
Venus	54185-03-18 01:55 G	21511801.52	21511801.58	21511801.67	0.0088	0.0082
Venus	54185-10-29 14:38 G	21512027.01	21512027.11	21512027.24	0.0088	0.0075
Venus	54186-06-12 03:22 G	21512252.52	21512252.64	21512252.80	0.0088	0.0068

Venus	54187-01-23 16:19 G	21512478.04	21512478.18	21512478.36	0.0088	0.0061
Venus	54187-09-06 05:31 G	21512703.55	21512703.73	21512703.90	0.0088	0.0053
Venus	54188-04-18 18:00 G	21512929.07	21512929.25	21512929.45	0.0088	0.0046
Venus	54188-11-30 06:43 G	21513154.59	21513154.78	21513154.98	0.0088	0.0039
Venus	54189-07-13 19:26 G	21513380.11	21513380.31	21513380.52	0.0088	0.0032
Venus	54190-02-24 08:24 G	21513605.64	21513605.85	21513606.06	0.0088	0.0024
Venus	54190-10-07 21:07 G	21513831.17	21513831.38	21513831.60	0.0088	0.0017
Venus	54191-05-21 09:50 G	21514056.69	21514056.91	21514057.13	0.0088	0.0010
Venus	54192-01-01 22:34 G	21514282.22	21514282.44	21514282.66	0.0088	0.0003
Venus	54192-08-14 11:17 G	21514507.74	21514507.97	21514508.19	0.0088	0.0005
Venus	54193-03-27 23:46 G	21514733.27	21514733.49	21514733.71	0.0088	0.0012
Venus	54193-11-08 12:14 G	21514958.80	21514959.01	21514959.23	0.0088	0.0020
Venus	54194-06-22 00:43 G	21515184.33	21515184.53	21515184.75	0.0088	0.0027
Venus	54195-02-02 13:41 G	21515409.87	21515410.07	21515410.28	0.0088	0.0034
Venus	54195-09-16 02:10 G	21515635.41	21515635.59	21515635.80	0.0088	0.0041
Venus	54196-04-28 14:53 G	21515860.94	21515861.12	21515861.31	0.0088	0.0048
Venus	54196-12-10 03:07 G	21516086.48	21516086.63	21516086.82	0.0088	0.0056
Venus	54197-07-23 15:50 G	21516312.02	21516312.16	21516312.33	0.0088	0.0063
Venus	54198-03-06 04:34 G	21516537.58	21516537.69	21516537.84	0.0088	0.0070
Venus	54198-10-17 17:17 G	21516763.13	21516763.22	21516763.34	0.0088	0.0077
Venus	54199-05-31 05:46 G	21516988.70	21516988.74	21516988.83	0.0088	0.0084
Mars	54207-03-10 22:34 G	21519828.32	21519828.44	21519828.62	0.0088	0.0076
Mars	54209-02-01 13:26 G	21520521.81	21520522.06	21520522.35	0.0088	0.0035
Mercury	54238-05-07 13:55 G	21531209.07	21531209.08	21531209.13	0.0088	0.0087
Mercury	54238-08-03 18:00 G	21531297.15	21531297.25	21531297.35	0.0088	0.0076
Mercury	54238-10-30 21:22 G	21531385.27	21531385.39	21531385.53	0.0088	0.0065
Mercury	54239-01-27 00:58 G	21531473.39	21531473.54	21531473.70	0.0088	0.0054
Mercury	54239-04-25 04:34 G	21531561.52	21531561.69	21531561.86	0.0088	0.0042
Mercury	54239-07-22 07:55 G	21531649.66	21531649.83	21531650.02	0.0088	0.0032
Mercury	54239-10-18 11:31 G	21531737.80	21531737.98	21531738.18	0.0088	0.0021

Mercury	54240-01-14 15:22 G	21531825.95	21531826.14	21531826.33	0.0088	0.0009
Mercury	54240-04-11 18:58 G	21531914.10	21531914.29	21531914.49	0.0088	0.0003
Mercury	54240-07-08 22:34 G	21532002.25	21532002.44	21532002.63	0.0088	0.0014
Mercury	54240-10-05 01:55 G	21532090.40	21532090.58	21532090.78	0.0088	0.0026
Mercury	54241-01-01 05:31 G	21532178.56	21532178.73	21532178.92	0.0088	0.0037
Mercury	54241-03-30 09:22 G	21532266.73	21532266.89	21532267.05	0.0088	0.0048
Mercury	54241-06-26 12:43 G	21532354.90	21532355.03	21532355.19	0.0088	0.0059
Mercury	54241-09-22 16:19 G	21532443.08	21532443.18	21532443.31	0.0088	0.0071
Mercury	54241-12-19 19:41 G	21532531.27	21532531.32	21532531.42	0.0088	0.0083
Earth	54250-08-28 06:29 G	21535704.66	21535704.77	21535704.92	0.0089	0.0076
Moon	54250-08-28 07:41 G	21535704.71	21535704.82	21535704.99	0.0089	0.0076 *
Jupiter	54251-07-17 00:00 G	21536027.01	21536027.50	21536028.06	0.0089	0.0024
Earth	54251-08-30 18:14 G	21536072.05	21536072.26	21536072.48	0.0089	0.0046
Moon	54251-08-30 18:00 G	21536072.06	21536072.25	21536072.48	0.0089	0.0047 *
Moon	54252-09-01 03:50 G	21536439.40	21536439.66	21536439.93	0.0089	0.0016
Earth	54252-09-01 05:31 G	21536439.48	21536439.73	21536439.99	0.0089	0.0017 *
Earth	54253-09-03 16:48 G	21536806.95	21536807.20	21536807.46	0.0089	0.0013
Moon	54253-09-03 18:43 G	21536807.05	21536807.28	21536807.54	0.0089	0.0014 *
Moon	54254-09-06 00:29 G	21537174.31	21537174.52	21537174.76	0.0089	0.0043
Earth	54254-09-06 03:50 G	21537174.45	21537174.66	21537174.90	0.0089	0.0043 *
Earth	54255-09-08 15:22 G	21537541.99	21537542.14	21537542.29	0.0089	0.0072
Moon	54255-09-08 18:29 G	21537542.14	21537542.27	21537542.44	0.0089	0.0072 *
Venus	54267-12-15 18:14 G	21542023.22	21542023.26	21542023.33	0.0089	0.0087
Venus	54268-07-28 07:26 G	21542248.73	21542248.81	21542248.93	0.0089	0.0080
Venus	54269-03-10 21:07 G	21542474.26	21542474.38	21542474.51	0.0089	0.0072
Venus	54269-10-22 10:05 G	21542699.78	21542699.92	21542700.09	0.0089	0.0065
Venus	54270-06-04 23:31 G	21542925.32	21542925.48	21542925.65	0.0089	0.0057
Venus	54271-01-16 12:29 G	21543150.86	21543151.02	21543151.22	0.0089	0.0050
Venus	54271-08-30 02:10 G	21543376.40	21543376.59	21543376.79	0.0089	0.0042
Venus	54272-04-11 15:07 G	21543601.94	21543602.13	21543602.35	0.0089	0.0035

Venus	54272-11-23 04:34 G	21543827.49	21543827.69	21543827.91	0.0090	0.0027
Venus	54273-07-06 18:14 G	21544053.04	21544053.26	21544053.47	0.0090	0.0019
Venus	54274-02-17 07:26 G	21544278.59	21544278.81	21544279.03	0.0090	0.0011
Venus	54274-09-30 20:53 G	21544504.15	21544504.37	21544504.59	0.0090	0.0004
Venus	54275-05-14 10:05 G	21544729.70	21544729.92	21544730.14	0.0090	0.0004
Venus	54275-12-25 23:31 G	21544955.26	21544955.48	21544955.70	0.0090	0.0012
Venus	54276-08-07 12:43 G	21545180.83	21545181.03	21545181.25	0.0090	0.0020
Venus	54277-03-21 01:55 G	21545406.39	21545406.58	21545406.81	0.0090	0.0028
Venus	54277-11-01 15:36 G	21545631.95	21545632.15	21545632.36	0.0090	0.0035
Venus	54278-06-15 04:48 G	21545857.52	21545857.70	21545857.90	0.0090	0.0043
Venus	54279-01-26 18:29 G	21546083.09	21546083.27	21546083.45	0.0090	0.0050
Venus	54279-09-09 07:41 G	21546308.66	21546308.82	21546309.00	0.0090	0.0058
Venus	54280-04-21 20:38 G	21546534.24	21546534.36	21546534.54	0.0090	0.0066
Venus	54280-12-03 10:19 G	21546759.82	21546759.93	21546760.07	0.0090	0.0073
Venus	54281-07-16 23:17 G	21546985.40	21546985.47	21546985.60	0.0090	0.0081
Venus	54282-02-27 12:58 G	21547211.01	21547211.04	21547211.10	0.0090	0.0088
Mars	54290-12-19 13:55 G	21550427.77	21550428.08	21550428.42	0.0090	0.0025
Mercury	54318-09-08 00:58 G	21560551.54	21560551.54	21560551.55	0.0089	0.0089
Mercury	54318-12-05 02:10 G	21560639.55	21560639.59	21560639.66	0.0089	0.0081
Mercury	54319-03-03 03:36 G	21560727.59	21560727.65	21560727.73	0.0089	0.0073
Mercury	54319-05-30 05:02 G	21560815.63	21560815.71	21560815.81	0.0089	0.0065
Mercury	54319-08-26 06:29 G	21560903.67	21560903.77	21560903.87	0.0089	0.0057
Mercury	54319-11-22 07:41 G	21560991.72	21560991.82	21560991.94	0.0089	0.0049
Mercury	54320-02-18 09:07 G	21561079.77	21561079.88	21561080.00	0.0089	0.0041
Mercury	54320-05-16 10:34 G	21561167.82	21561167.94	21561168.06	0.0089	0.0033
Mercury	54320-08-12 11:46 G	21561255.87	21561255.99	21561256.12	0.0089	0.0026
Mercury	54320-11-08 12:58 G	21561343.92	21561344.04	21561344.18	0.0089	0.0018
Mercury	54321-02-04 14:24 G	21561431.97	21561432.10	21561432.24	0.0089	0.0010
Mercury	54321-05-03 15:50 G	21561520.03	21561520.16	21561520.29	0.0089	0.0002
Mercury	54321-07-30 17:02 G	21561608.08	21561608.21	21561608.34	0.0089	0.0006



Mercury	54321-10-26 18:14 G	21561696.14	21561696.26	21561696.40	0.0089	0.0014
Mercury	54322-01-22 19:41 G	21561784.19	21561784.32	21561784.45	0.0089	0.0021
Mercury	54322-04-20 21:07 G	21561872.25	21561872.38	21561872.50	0.0089	0.0029
Mercury	54322-07-17 22:19 G	21561960.31	21561960.43	21561960.55	0.0089	0.0037
Mercury	54322-10-13 23:31 G	21562048.37	21562048.48	21562048.60	0.0089	0.0045
Mercury	54323-01-10 00:43 G	21562136.43	21562136.53	21562136.64	0.0089	0.0053
Mercury	54323-04-08 02:10 G	21562224.50	21562224.59	21562224.69	0.0089	0.0060
Mercury	54323-07-05 03:22 G	21562312.56	21562312.64	21562312.73	0.0089	0.0068
Mercury	54323-10-01 04:34 G	21562400.63	21562400.69	21562400.77	0.0089	0.0076
Mercury	54323-12-28 06:14 G	21562488.71	21562488.76	21562488.80	0.0089	0.0083
Earth	54332-02-27 02:53 G	21565471.46	21565471.62	21565471.82	0.0089	0.0063
Moon	54332-02-27 04:19 G	21565471.51	21565471.68	21565471.86	0.0089	0.0066 *
Earth	54333-02-28 14:53 G	21565838.90	21565839.12	21565839.38	0.0089	0.0034
Moon	54333-02-28 15:50 G	21565838.93	21565839.16	21565839.40	0.0089	0.0030 *
Moon	54334-03-03 01:55 G	21566206.31	21566206.58	21566206.85	0.0088	0.0007
Earth	54334-03-03 03:22 G	21566206.38	21566206.64	21566206.90	0.0088	0.0004 *
Earth	54335-03-05 15:07 G	21566573.89	21566574.13	21566574.38	0.0088	0.0026
Moon	54335-03-05 17:31 G	21566574.00	21566574.23	21566574.48	0.0088	0.0029 *
Moon	54336-03-06 23:31 G	21566941.28	21566941.48	21566941.71	0.0088	0.0052
Earth	54336-03-07 02:53 G	21566941.44	21566941.62	21566941.84	0.0088	0.0056 *
Earth	54337-03-09 15:07 G	21567309.07	21567309.13	21567309.20	0.0088	0.0085
Moon	54337-03-09 18:14 G	21567309.25	21567309.26	21567309.31	0.0088	0.0088
Venus	54349-06-21 10:05 G	21571795.87	21571795.92	21571796.02	0.0088	0.0083
Venus	54350-02-01 23:31 G	21572021.37	21572021.48	21572021.59	0.0088	0.0075
Venus	54350-09-15 12:14 G	21572246.87	21572247.01	21572247.15	0.0088	0.0068
Venus	54351-04-29 00:58 G	21572472.38	21572472.54	21572472.70	0.0088	0.0061
Venus	54351-12-10 13:26 G	21572697.90	21572698.06	21572698.25	0.0088	0.0054
Venus	54352-07-23 02:10 G	21572923.42	21572923.59	21572923.79	0.0088	0.0047
Venus	54353-03-05 14:53 G	21573148.94	21573149.12	21573149.34	0.0088	0.0040
Venus	54353-10-17 03:50 G	21573374.47	21573374.66	21573374.87	0.0088	0.0033

Venus	54354-05-30 16:48 G	21573599.99	21573600.20	21573600.41	0.0088	0.0025
Venus	54355-01-11 05:31 G	21573825.52	21573825.73	21573825.95	0.0088	0.0018
Venus	54355-08-24 18:14 G	21574051.05	21574051.26	21574051.48	0.0088	0.0011
Venus	54356-04-06 06:58 G	21574276.57	21574276.79	21574277.01	0.0088	0.0004
Venus	54356-11-17 19:41 G	21574502.10	21574502.32	21574502.54	0.0088	0.0004
Venus	54357-07-01 08:24 G	21574727.63	21574727.85	21574728.07	0.0088	0.0011
Venus	54358-02-11 21:07 G	21574953.17	21574953.38	21574953.60	0.0088	0.0018
Venus	54358-09-25 09:36 G	21575178.70	21575178.90	21575179.12	0.0088	0.0026
Venus	54359-05-08 22:05 G	21575404.23	21575404.42	21575404.64	0.0088	0.0033
Venus	54359-12-20 10:48 G	21575629.77	21575629.95	21575630.16	0.0088	0.0040
Venus	54360-08-01 23:17 G	21575855.30	21575855.47	21575855.68	0.0088	0.0047
Venus	54361-03-15 12:14 G	21576080.85	21576081.01	21576081.19	0.0088	0.0054
Venus	54361-10-27 00:43 G	21576306.39	21576306.53	21576306.70	0.0088	0.0061
Venus	54362-06-09 13:26 G	21576531.93	21576532.06	21576532.21	0.0088	0.0068
Venus	54363-01-21 02:10 G	21576757.49	21576757.59	21576757.71	0.0088	0.0075
Venus	54363-09-03 14:38 G	21576983.05	21576983.11	21576983.20	0.0088	0.0082
Mars	54372-09-17 22:05 G	21580285.14	21580285.42	21580285.72	0.0088	0.0012
Mercury	54403-02-02 11:17 G	21591379.94	21591379.97	21591380.03	0.0088	0.0085
Mercury	54403-05-01 14:53 G	21591468.03	21591468.12	21591468.23	0.0088	0.0074
Mercury	54403-07-28 18:14 G	21591556.14	21591556.26	21591556.41	0.0088	0.0064
Mercury	54403-10-24 21:50 G	21591644.27	21591644.41	21591644.58	0.0088	0.0052
Mercury	54404-01-21 01:26 G	21591732.40	21591732.56	21591732.74	0.0088	0.0041
Mercury	54404-04-18 05:17 G	21591820.54	21591820.72	21591820.90	0.0088	0.0030
Mercury	54404-07-15 08:53 G	21591908.68	21591908.87	21591909.06	0.0088	0.0019
Mercury	54404-10-11 12:29 G	21591996.82	21591997.02	21591997.21	0.0088	0.0007
Mercury	54405-01-07 16:05 G	21592084.97	21592085.17	21592085.36	0.0088	0.0004
Mercury	54405-04-05 19:26 G	21592173.13	21592173.31	21592173.51	0.0088	0.0016
Mercury	54405-07-02 23:02 G	21592261.28	21592261.46	21592261.65	0.0088	0.0027
Mercury	54405-09-29 02:24 G	21592349.44	21592349.60	21592349.79	0.0088	0.0039
Mercury	54405-12-26 06:00 G	21592437.61	21592437.75	21592437.93	0.0088	0.0050

Mercury	54406-03-24 09:50 G	21592525.78	21592525.91	21592526.06	0.0088	0.0061
Mercury	54406-06-20 13:12 G	21592613.96	21592614.05	21592614.18	0.0088	0.0072
Mercury	54406-09-16 16:48 G	21592702.16	21592702.20	21592702.28	0.0088	0.0084
Moon	54415-08-30 20:53 G	21595972.20	21595972.37	21595972.59	0.0089	0.0059
Earth	54415-08-30 22:48 G	21595972.30	21595972.45	21595972.66	0.0089	0.0064 *
Earth	54416-09-01 10:19 G	21596339.71	21596339.93	21596340.18	0.0089	0.0034
Moon	54416-09-01 13:41 G	21596339.85	21596340.07	21596340.30	0.0089	0.0038 *
Moon	54417-09-03 18:29 G	21596707.02	21596707.27	21596707.53	0.0089	0.0001
Earth	54417-09-03 21:50 G	21596707.16	21596707.41	21596707.67	0.0089	0.0004 *
Jupiter	54417-09-17 00:43 G	21596720.32	21596720.53	21596720.82	0.0089	0.0079
Earth	54418-09-06 08:53 G	21597074.64	21597074.87	21597075.13	0.0089	0.0026
Moon	54418-09-06 12:43 G	21597074.79	21597075.03	21597075.29	0.0089	0.0021 *
Moon	54419-09-08 17:02 G	21597442.05	21597442.21	21597442.42	0.0089	0.0060
Earth	54419-09-08 20:24 G	21597442.16	21597442.35	21597442.56	0.0089	0.0055 *
Earth	54420-09-10 06:58 G	21597809.74	21597809.79	21597809.89	0.0089	0.0085
Moon	54420-09-10 09:50 G	21597809.81	21597809.91	21597810.03	0.0089	0.0080 *
Venus	54432-03-19 01:26 G	21602017.54	21602017.56	21602017.63	0.0089	0.0088
Venus	54432-10-30 14:38 G	21602243.04	21602243.11	21602243.23	0.0089	0.0081
Venus	54433-06-13 04:19 G	21602468.57	21602468.68	21602468.82	0.0089	0.0073
Venus	54434-01-24 17:31 G	21602694.10	21602694.23	21602694.39	0.0089	0.0065
Venus	54434-09-07 06:58 G	21602919.63	21602919.79	21602919.97	0.0089	0.0058
Venus	54435-04-20 20:10 G	21603145.17	21603145.34	21603145.53	0.0089	0.0050
Venus	54435-12-02 09:36 G	21603370.71	21603370.90	21603371.10	0.0089	0.0043
Venus	54436-07-14 22:48 G	21603596.26	21603596.45	21603596.66	0.0089	0.0036
Venus	54437-02-25 12:14 G	21603821.81	21603822.01	21603822.22	0.0089	0.0028
Venus	54437-10-09 01:26 G	21604047.35	21604047.56	21604047.78	0.0089	0.0020
Venus	54438-05-22 14:53 G	21604272.90	21604273.12	21604273.33	0.0090	0.0013
Venus	54439-01-03 04:05 G	21604498.45	21604498.67	21604498.89	0.0090	0.0005
Venus	54439-08-16 17:31 G	21604724.01	21604724.23	21604724.45	0.0090	0.0003
Venus	54440-03-29 06:43 G	21604949.57	21604949.78	21604950.00	0.0090	0.0010

Venus	54440-11-09 20:10 G	21605175.13	21605175.34	21605175.56	0.0090	0.0018
Venus	54441-06-23 09:22 G	21605400.69	21605400.89	21605401.11	0.0090	0.0025
Venus	54442-02-03 22:48 G	21605626.25	21605626.45	21605626.66	0.0090	0.0033
Venus	54442-09-17 12:00 G	21605851.82	21605852.00	21605852.21	0.0090	0.0041
Venus	54443-05-01 01:12 G	21606077.39	21606077.55	21606077.76	0.0090	0.0049
Venus	54443-12-12 14:53 G	21606302.96	21606303.12	21606303.30	0.0090	0.0056
Venus	54444-07-25 04:05 G	21606528.54	21606528.67	21606528.85	0.0090	0.0064
Venus	54445-03-07 17:31 G	21606754.12	21606754.23	21606754.38	0.0090	0.0071
Venus	54445-10-19 07:12 G	21606979.70	21606979.80	21606979.91	0.0090	0.0078
Venus	54446-06-01 20:10 G	21607205.30	21607205.34	21607205.43	0.0090	0.0086
Mars	54454-08-02 14:24 G	21610188.79	21610189.10	21610189.41	0.0090	0.0038
Mercury	54483-06-05 00:00 G	21620722.49	21620722.50	21620722.52	0.0089	0.0088
Mercury	54483-09-01 01:12 G	21620810.51	21620810.55	21620810.62	0.0089	0.0081
Mercury	54483-11-28 02:38 G	21620898.54	21620898.61	21620898.69	0.0089	0.0072
Mercury	54484-02-24 04:05 G	21620986.58	21620986.67	21620986.77	0.0089	0.0064
Mercury	54484-05-22 05:31 G	21621074.63	21621074.73	21621074.83	0.0089	0.0056
Mercury	54484-08-18 06:29 G	21621162.67	21621162.77	21621162.90	0.0089	0.0050
Mercury	54484-11-14 07:55 G	21621250.72	21621250.83	21621250.96	0.0089	0.0041
Mercury	54485-02-10 09:22 G	21621338.77	21621338.89	21621339.02	0.0089	0.0033
Mercury	54485-05-09 10:48 G	21621426.82	21621426.95	21621427.08	0.0089	0.0025
Mercury	54485-08-05 12:00 G	21621514.88	21621515.00	21621515.14	0.0089	0.0018
Mercury	54485-11-01 13:26 G	21621602.93	21621603.06	21621603.19	0.0089	0.0009
Mercury	54486-01-28 14:53 G	21621690.98	21621691.12	21621691.25	0.0089	0.0002
Mercury	54486-04-26 16:05 G	21621779.04	21621779.17	21621779.30	0.0089	0.0007
Mercury	54486-07-23 17:17 G	21621867.10	21621867.22	21621867.36	0.0089	0.0015
Mercury	54486-10-19 18:43 G	21621955.15	21621955.28	21621955.41	0.0089	0.0022
Mercury	54487-01-15 19:55 G	21622043.21	21622043.33	21622043.46	0.0089	0.0030
Mercury	54487-04-13 21:07 G	21622131.27	21622131.38	21622131.51	0.0089	0.0038
Mercury	54487-07-10 22:19 G	21622219.33	21622219.43	21622219.56	0.0089	0.0046
Mercury	54487-10-07 00:00 G	21622307.39	21622307.50	21622307.60	0.0089	0.0053

Mercury	54488-01-03 01:12 G	21622395.46	21622395.55	21622395.65	0.0089	0.0061
Mercury	54488-03-31 02:24 G	21622483.53	21622483.60	21622483.69	0.0089	0.0069
Mercury	54488-06-27 03:50 G	21622571.60	21622571.66	21622571.73	0.0089	0.0076
Mercury	54488-09-23 05:02 G	21622659.68	21622659.71	21622659.76	0.0089	0.0084
Earth	54496-02-26 07:12 G	21625371.70	21625371.80	21625371.92	0.0089	0.0080
Moon	54496-02-26 07:55 G	21625371.73	21625371.83	21625371.96	0.0089	0.0078 *
Moon	54497-02-27 16:34 G	21625738.99	21625739.19	21625739.42	0.0089	0.0052
Earth	54497-02-27 18:58 G	21625739.10	21625739.29	21625739.52	0.0089	0.0051 *
Earth	54498-03-02 07:26 G	21626106.56	21626106.81	21626107.07	0.0089	0.0021
Moon	54498-03-02 10:19 G	21626106.69	21626106.93	21626107.19	0.0089	0.0019 *
Moon	54499-03-04 15:50 G	21626473.91	21626474.16	21626474.43	0.0088	0.0007
Earth	54499-03-04 19:26 G	21626474.06	21626474.31	21626474.57	0.0088	0.0009 *
Earth	54500-03-07 07:26 G	21626841.58	21626841.81	21626842.05	0.0088	0.0039
Moon	54500-03-07 10:48 G	21626841.74	21626841.95	21626842.20	0.0088	0.0041 *
Moon	54501-03-09 16:19 G	21627209.02	21627209.18	21627209.36	0.0088	0.0066
Earth	54501-03-09 19:12 G	21627209.16	21627209.30	21627209.48	0.0088	0.0069 *
Venus	54513-09-23 18:58 G	21631790.24	21631790.29	21631790.39	0.0088	0.0083
Venus	54514-05-07 07:41 G	21632015.73	21632015.82	21632015.95	0.0088	0.0076
Venus	54514-12-18 20:24 G	21632241.24	21632241.35	21632241.51	0.0088	0.0069
Venus	54515-08-01 09:07 G	21632466.75	21632466.88	21632467.06	0.0088	0.0062
Venus	54516-03-13 22:05 G	21632692.26	21632692.42	21632692.61	0.0088	0.0055
Venus	54516-10-25 10:48 G	21632917.78	21632917.95	21632918.15	0.0088	0.0048
Venus	54517-06-08 00:00 G	21633143.30	21633143.50	21633143.69	0.0088	0.0040
Venus	54518-01-19 12:43 G	21633368.83	21633369.03	21633369.24	0.0088	0.0033
Venus	54518-09-02 01:26 G	21633594.35	21633594.56	21633594.78	0.0088	0.0026
Venus	54519-04-15 14:10 G	21633819.88	21633820.09	21633820.31	0.0088	0.0019
Venus	54519-11-27 02:53 G	21634045.41	21634045.62	21634045.84	0.0088	0.0012
Venus	54520-07-09 15:36 G	21634270.93	21634271.15	21634271.38	0.0088	0.0005
Venus	54521-02-20 04:34 G	21634496.47	21634496.69	21634496.91	0.0088	0.0003
Venus	54521-10-03 17:17 G	21634722.00	21634722.22	21634722.44	0.0088	0.0010

Venus	54522-05-17 06:00 G	21634947.53	21634947.75	21634947.97	0.0088	0.0017
Venus	54522-12-28 18:43 G	21635173.07	21635173.28	21635173.49	0.0088	0.0024
Venus	54523-08-11 06:58 G	21635398.60	21635398.79	21635399.01	0.0088	0.0032
Venus	54524-03-23 19:41 G	21635624.14	21635624.32	21635624.53	0.0088	0.0039
Venus	54524-11-04 08:10 G	21635849.67	21635849.84	21635850.05	0.0088	0.0046
Venus	54525-06-17 20:53 G	21636075.21	21636075.37	21636075.56	0.0088	0.0053
Venus	54526-01-29 09:36 G	21636300.76	21636300.90	21636301.08	0.0088	0.0060
Venus	54526-09-11 22:05 G	21636526.30	21636526.42	21636526.59	0.0088	0.0067
Venus	54527-04-25 10:34 G	21636751.85	21636751.94	21636752.09	0.0088	0.0074
Venus	54527-12-06 23:31 G	21636977.40	21636977.48	21636977.58	0.0088	0.0080
Venus	54528-07-19 12:00 G	21637202.99	21637203.00	21637203.04	0.0088	0.0087
Mars	54536-05-04 06:43 G	21640048.59	21640048.78	21640049.02	0.0088	0.0060
Mars	54538-03-28 21:50 G	21640742.19	21640742.41	21640742.66	0.0088	0.0052
Mercury	54567-10-31 08:38 G	21651550.81	21651550.86	21651550.92	0.0088	0.0084
Mercury	54568-01-27 12:14 G	21651638.90	21651639.01	21651639.12	0.0088	0.0073
Mercury	54568-04-24 15:36 G	21651727.02	21651727.15	21651727.30	0.0088	0.0062
Mercury	54568-07-21 19:12 G	21651815.15	21651815.30	21651815.46	0.0088	0.0051
Mercury	54568-10-17 22:48 G	21651903.28	21651903.45	21651903.63	0.0088	0.0039
Mercury	54569-01-14 02:10 G	21651991.42	21651991.59	21651991.79	0.0088	0.0029
Mercury	54569-04-12 05:46 G	21652079.56	21652079.74	21652079.94	0.0088	0.0018
Mercury	54569-07-09 09:22 G	21652167.70	21652167.89	21652168.09	0.0088	0.0007
Mercury	54569-10-05 13:12 G	21652255.85	21652256.05	21652256.24	0.0088	0.0006
Mercury	54570-01-01 16:34 G	21652344.00	21652344.19	21652344.39	0.0088	0.0017
Mercury	54570-03-30 19:55 G	21652432.16	21652432.33	21652432.53	0.0088	0.0029
Mercury	54570-06-26 23:46 G	21652520.32	21652520.49	21652520.67	0.0088	0.0039
Mercury	54570-09-23 03:22 G	21652608.49	21652608.64	21652608.80	0.0088	0.0051
Mercury	54570-12-20 06:43 G	21652696.66	21652696.78	21652696.93	0.0088	0.0062
Mercury	54571-03-18 10:19 G	21652784.84	21652784.93	21652785.05	0.0088	0.0074
Mercury	54571-06-14 14:10 G	21652873.04	21652873.09	21652873.15	0.0088	0.0085
Earth	54579-08-31 05:02 G	21655872.62	21655872.71	21655872.84	0.0089	0.0080

Moon	54579-08-31 07:55 G	21655872.74	21655872.83	21655872.98	0.0089	0.0079	*
Moon	54580-09-01 12:43 G	21656239.83	21656240.03	21656240.24	0.0089	0.0053	
Earth	54580-09-01 16:05 G	21656239.98	21656240.17	21656240.40	0.0089	0.0051	*
Earth	54581-09-04 03:36 G	21656607.41	21656607.65	21656607.90	0.0089	0.0021	
Moon	54581-09-04 06:58 G	21656607.54	21656607.79	21656608.04	0.0089	0.0019	*
Moon	54582-09-06 12:00 G	21656974.75	21656975.00	21656975.26	0.0089	0.0008	
Earth	54582-09-06 15:07 G	21656974.87	21656975.13	21656975.38	0.0089	0.0009	*
Earth	54583-09-09 01:41 G	21657342.36	21657342.57	21657342.82	0.0089	0.0039	
Moon	54583-09-09 03:50 G	21657342.43	21657342.66	21657342.90	0.0089	0.0040	*
Moon	54584-09-10 12:29 G	21657709.88	21657710.02	21657710.21	0.0089	0.0067	
Earth	54584-09-10 13:12 G	21657709.90	21657710.05	21657710.23	0.0089	0.0068	*
Venus	54596-06-21 09:22 G	21662011.86	21662011.89	21662011.94	0.0089	0.0088	
Venus	54597-02-01 22:34 G	21662237.36	21662237.44	21662237.55	0.0089	0.0081	
Venus	54597-09-15 11:46 G	21662462.89	21662462.99	21662463.14	0.0089	0.0074	
Venus	54598-04-29 01:26 G	21662688.42	21662688.56	21662688.71	0.0089	0.0066	
Venus	54598-12-10 14:24 G	21662913.95	21662914.10	21662914.28	0.0089	0.0059	
Venus	54599-07-24 03:50 G	21663139.49	21663139.66	21663139.85	0.0089	0.0051	
Venus	54600-03-06 17:17 G	21663365.04	21663365.22	21663365.42	0.0089	0.0044	
Venus	54600-10-18 06:29 G	21663590.58	21663590.77	21663590.98	0.0089	0.0036	
Venus	54601-05-31 19:55 G	21663816.12	21663816.33	21663816.54	0.0089	0.0029	
Venus	54602-01-12 08:53 G	21664041.67	21664041.87	21664042.09	0.0089	0.0022	
Venus	54602-08-25 22:19 G	21664267.22	21664267.43	21664267.66	0.0089	0.0014	
Venus	54603-04-08 11:46 G	21664492.77	21664492.99	21664493.21	0.0089	0.0007	
Venus	54603-11-20 00:58 G	21664718.32	21664718.54	21664718.76	0.0090	0.0001	
Venus	54604-07-02 14:10 G	21664943.88	21664944.09	21664944.32	0.0090	0.0009	
Venus	54605-02-13 03:36 G	21665169.44	21665169.65	21665169.87	0.0090	0.0016	
Venus	54605-09-26 16:48 G	21665395.00	21665395.20	21665395.42	0.0090	0.0024	
Venus	54606-05-10 06:00 G	21665620.56	21665620.75	21665620.97	0.0090	0.0031	
Venus	54606-12-21 19:26 G	21665846.12	21665846.31	21665846.52	0.0090	0.0039	
Venus	54607-08-04 09:07 G	21666071.69	21666071.88	21666072.07	0.0090	0.0046	

Venus	54608-03-16 22:05 G	21666297.26	21666297.42	21666297.61	0.0090	0.0054
Venus	54608-10-28 11:46 G	21666522.83	21666522.99	21666523.15	0.0090	0.0061
Venus	54609-06-11 00:43 G	21666748.41	21666748.53	21666748.69	0.0090	0.0069
Venus	54610-01-22 14:24 G	21666973.99	21666974.10	21666974.23	0.0090	0.0076
Venus	54610-09-05 04:05 G	21667199.59	21667199.67	21667199.75	0.0090	0.0083
Mars	54620-02-11 22:48 G	21670646.17	21670646.45	21670646.78	0.0090	0.0040
Mercury	54648-03-02 23:02 G	21680893.44	21680893.46	21680893.48	0.0089	0.0088
Mercury	54648-05-30 00:00 G	21680981.46	21680981.50	21680981.58	0.0089	0.0081
Mercury	54648-08-26 01:26 G	21681069.50	21681069.56	21681069.65	0.0089	0.0072
Mercury	54648-11-22 02:53 G	21681157.54	21681157.62	21681157.72	0.0089	0.0064
Mercury	54649-02-18 04:19 G	21681245.59	21681245.68	21681245.79	0.0089	0.0056
Mercury	54649-05-17 05:46 G	21681333.63	21681333.74	21681333.86	0.0089	0.0048
Mercury	54649-08-13 06:58 G	21681421.68	21681421.79	21681421.92	0.0089	0.0040
Mercury	54649-11-09 08:24 G	21681509.73	21681509.85	21681509.98	0.0089	0.0032
Mercury	54650-02-05 09:50 G	21681597.78	21681597.91	21681598.04	0.0089	0.0024
Mercury	54650-05-04 11:17 G	21681685.84	21681685.97	21681686.10	0.0089	0.0016
Mercury	54650-07-31 12:29 G	21681773.89	21681774.02	21681774.15	0.0089	0.0008
Mercury	54650-10-27 13:55 G	21681861.94	21681862.08	21681862.21	0.0089	0.0002
Mercury	54651-01-23 15:07 G	21681950.00	21681950.13	21681950.26	0.0089	0.0008
Mercury	54651-04-21 16:34 G	21682038.06	21682038.19	21682038.32	0.0089	0.0015
Mercury	54651-07-18 17:46 G	21682126.11	21682126.24	21682126.37	0.0089	0.0023
Mercury	54651-10-14 18:58 G	21682214.17	21682214.29	21682214.42	0.0089	0.0031
Mercury	54652-01-10 20:10 G	21682302.23	21682302.34	21682302.47	0.0089	0.0039
Mercury	54652-04-07 21:36 G	21682390.29	21682390.40	21682390.52	0.0089	0.0047
Mercury	54652-07-04 23:02 G	21682478.36	21682478.46	21682478.57	0.0089	0.0054
Mercury	54652-10-01 00:14 G	21682566.42	21682566.51	21682566.61	0.0089	0.0062
Mercury	54652-12-28 01:26 G	21682654.49	21682654.56	21682654.65	0.0089	0.0070
Mercury	54653-03-26 02:53 G	21682742.56	21682742.62	21682742.69	0.0089	0.0077
Mercury	54653-06-22 04:05 G	21682830.64	21682830.67	21682830.71	0.0089	0.0085
Earth	54661-02-28 23:17 G	21685639.33	21685639.47	21685639.67	0.0089	0.0068



Moon	54661-03-01 03:36 G	21685639.50	21685639.65	21685639.80	0.0089	0.0072 *
Moon	54662-03-03 08:10 G	21686006.62	21686006.84	21686007.10	0.0089	0.0034
Earth	54662-03-03 11:46 G	21686006.77	21686006.99	21686007.24	0.0089	0.0038 *
Earth	54663-03-06 00:14 G	21686374.25	21686374.51	21686374.77	0.0089	0.0008
Moon	54663-03-06 03:50 G	21686374.40	21686374.66	21686374.92	0.0089	0.0012 *
Moon	54664-03-07 09:36 G	21686741.67	21686741.90	21686742.15	0.0089	0.0027
Earth	54664-03-07 12:29 G	21686741.77	21686742.02	21686742.27	0.0089	0.0022 *
Earth	54665-03-10 00:00 G	21687109.30	21687109.50	21687109.72	0.0088	0.0052
Moon	54665-03-10 01:26 G	21687109.35	21687109.56	21687109.81	0.0088	0.0048 *
Earth	54666-03-12 11:31 G	21687476.91	21687476.98	21687477.12	0.0088	0.0082
Moon	54666-03-12 10:48 G	21687476.92	21687476.95	21687477.05	0.0088	0.0086 *
Venus	54677-12-27 03:36 G	21691784.60	21691784.65	21691784.74	0.0088	0.0083
Venus	54678-08-09 16:19 G	21692010.09	21692010.18	21692010.31	0.0088	0.0076
Venus	54679-03-23 05:17 G	21692235.60	21692235.72	21692235.87	0.0088	0.0069
Venus	54679-11-03 18:00 G	21692461.11	21692461.25	21692461.42	0.0088	0.0062
Venus	54680-06-16 06:43 G	21692686.62	21692686.78	21692686.97	0.0088	0.0055
Venus	54681-01-27 19:41 G	21692912.15	21692912.32	21692912.52	0.0088	0.0048
Venus	54681-09-10 08:24 G	21693137.67	21693137.85	21693138.06	0.0088	0.0041
Venus	54682-04-23 21:07 G	21693363.19	21693363.38	21693363.60	0.0088	0.0034
Venus	54682-12-05 09:50 G	21693588.71	21693588.91	21693589.13	0.0088	0.0027
Venus	54683-07-18 22:48 G	21693814.24	21693814.45	21693814.67	0.0088	0.0020
Venus	54684-02-29 11:31 G	21694039.77	21694039.98	21694040.21	0.0088	0.0013
Venus	54684-10-12 00:29 G	21694265.30	21694265.52	21694265.74	0.0088	0.0006
Venus	54685-05-25 13:12 G	21694490.83	21694491.05	21694491.27	0.0088	0.0002
Venus	54686-01-06 01:55 G	21694716.37	21694716.58	21694716.81	0.0088	0.0009
Venus	54686-08-19 14:38 G	21694941.90	21694942.11	21694942.34	0.0088	0.0016
Venus	54687-04-02 03:36 G	21695167.44	21695167.65	21695167.86	0.0088	0.0023
Venus	54687-11-13 16:19 G	21695392.97	21695393.18	21695393.39	0.0088	0.0030
Venus	54688-06-26 05:02 G	21695618.51	21695618.71	21695618.91	0.0088	0.0037
Venus	54689-02-06 17:46 G	21695844.05	21695844.24	21695844.43	0.0088	0.0044

Venus	54689-09-20 06:29 G	21696069.59	21696069.77	21696069.95	0.0088	0.0051
Venus	54690-05-03 18:58 G	21696295.13	21696295.29	21696295.46	0.0088	0.0058
Venus	54690-12-15 07:26 G	21696520.68	21696520.81	21696520.97	0.0088	0.0065
Venus	54691-07-28 20:10 G	21696746.22	21696746.34	21696746.47	0.0088	0.0072
Venus	54692-03-10 08:38 G	21696971.79	21696971.86	21696971.98	0.0088	0.0079
Venus	54692-10-21 21:07 G	21697197.36	21697197.38	21697197.45	0.0088	0.0086
Mars	54701-11-13 07:55 G	21700505.54	21700505.83	21700506.12	0.0088	0.0005
Mercury	54732-07-29 06:00 G	21711721.69	21711721.75	21711721.84	0.0088	0.0081
Mercury	54732-10-25 09:22 G	21711809.79	21711809.89	21711810.03	0.0088	0.0071
Mercury	54733-01-21 12:58 G	21711897.91	21711898.04	21711898.20	0.0088	0.0059
Mercury	54733-04-19 16:34 G	21711986.04	21711986.19	21711986.37	0.0088	0.0048
Mercury	54733-07-16 20:10 G	21712074.17	21712074.34	21712074.53	0.0088	0.0037
Mercury	54733-10-12 23:46 G	21712162.31	21712162.49	21712162.68	0.0088	0.0026
Mercury	54734-01-09 03:22 G	21712250.45	21712250.64	21712250.84	0.0088	0.0015
Mercury	54734-04-07 06:58 G	21712338.60	21712338.79	21712338.99	0.0088	0.0004
Mercury	54734-07-04 10:34 G	21712426.75	21712426.94	21712427.13	0.0088	0.0008
Mercury	54734-09-30 13:55 G	21712514.90	21712515.08	21712515.28	0.0088	0.0019
Mercury	54734-12-27 17:31 G	21712603.05	21712603.23	21712603.42	0.0088	0.0030
Mercury	54735-03-25 21:07 G	21712691.22	21712691.38	21712691.56	0.0088	0.0042
Mercury	54735-06-22 00:29 G	21712779.38	21712779.52	21712779.69	0.0088	0.0053
Mercury	54735-09-18 04:05 G	21712867.55	21712867.67	21712867.82	0.0088	0.0065
Mercury	54735-12-15 07:55 G	21712955.74	21712955.83	21712955.94	0.0088	0.0076
Mercury	54736-03-12 11:02 G	21713043.96	21713043.96	21713044.02	0.0088	0.0088
Earth	54744-09-02 22:48 G	21716140.29	21716140.45	21716140.63	0.0089	0.0067
Moon	54744-09-03 01:55 G	21716140.41	21716140.58	21716140.78	0.0089	0.0063 *
Moon	54745-09-05 08:10 G	21716507.62	21716507.84	21716508.06	0.0089	0.0041
Earth	54745-09-05 09:50 G	21716507.69	21716507.91	21716508.16	0.0089	0.0038 *
Earth	54746-09-07 21:07 G	21716875.13	21716875.38	21716875.64	0.0089	0.0008
Moon	54746-09-07 22:48 G	21716875.18	21716875.45	21716875.71	0.0089	0.0004 *
Earth	54747-09-10 08:24 G	21717242.60	21717242.85	21717243.10	0.0089	0.0022

Moon	54747-09-10 08:24 G	21717242.61	21717242.85	21717243.10	0.0089	0.0018	*
Moon	54748-09-11 17:46 G	21717610.04	21717610.24	21717610.46	0.0089	0.0055	
Earth	54748-09-11 19:12 G	21717610.11	21717610.30	21717610.53	0.0089	0.0052	*
Earth	54749-09-14 06:43 G	21717977.69	21717977.78	21717977.89	0.0089	0.0081	
Moon	54749-09-14 08:53 G	21717977.75	21717977.87	21717978.00	0.0089	0.0077	*
Venus	54760-09-24 17:17 G	21722006.21	21722006.22	21722006.28	0.0089	0.0089	
Venus	54761-05-08 06:58 G	21722231.71	21722231.79	21722231.89	0.0089	0.0081	
Venus	54761-12-19 20:10 G	21722457.23	21722457.34	21722457.47	0.0089	0.0074	
Venus	54762-08-02 09:22 G	21722682.76	21722682.89	21722683.06	0.0089	0.0067	
Venus	54763-03-15 22:34 G	21722908.30	21722908.44	21722908.63	0.0089	0.0060	
Venus	54763-10-27 12:14 G	21723133.84	21723134.01	21723134.19	0.0089	0.0052	
Venus	54764-06-09 01:26 G	21723359.38	21723359.56	21723359.76	0.0089	0.0045	
Venus	54765-01-20 14:38 G	21723584.92	21723585.11	21723585.32	0.0089	0.0037	
Venus	54765-09-03 04:05 G	21723810.47	21723810.67	21723810.89	0.0089	0.0030	
Venus	54766-04-16 17:17 G	21724036.02	21724036.22	21724036.45	0.0089	0.0023	
Venus	54766-11-28 06:43 G	21724261.57	21724261.78	21724262.00	0.0089	0.0015	
Venus	54767-07-11 20:10 G	21724487.12	21724487.34	21724487.56	0.0089	0.0007	
Venus	54768-02-22 09:22 G	21724712.67	21724712.89	21724713.11	0.0089	0.0001	
Venus	54768-10-04 22:34 G	21724938.23	21724938.44	21724938.66	0.0090	0.0008	
Venus	54769-05-18 12:00 G	21725163.78	21725164.00	21725164.21	0.0090	0.0015	
Venus	54769-12-30 00:58 G	21725389.34	21725389.54	21725389.76	0.0090	0.0023	
Venus	54770-08-12 14:24 G	21725614.90	21725615.10	21725615.31	0.0090	0.0030	
Venus	54771-03-26 03:50 G	21725840.46	21725840.66	21725840.86	0.0090	0.0037	
Venus	54771-11-06 16:48 G	21726066.02	21726066.20	21726066.40	0.0090	0.0045	
Venus	54772-06-19 06:14 G	21726291.59	21726291.76	21726291.95	0.0090	0.0052	
Venus	54773-01-30 19:12 G	21726517.16	21726517.30	21726517.49	0.0090	0.0060	
Venus	54773-09-13 08:53 G	21726742.74	21726742.87	21726743.03	0.0090	0.0067	
Venus	54774-04-26 22:19 G	21726968.32	21726968.43	21726968.56	0.0090	0.0074	
Venus	54774-12-08 11:46 G	21727193.91	21727193.99	21727194.09	0.0090	0.0081	
Venus	54775-07-22 00:43 G	21727419.52	21727419.53	21727419.59	0.0090	0.0089	

Mars	54783-09-26 00:29 G	21730407.20	21730407.52	21730407.85	0.0090	0.0023
Mercury	54812-11-28 21:50 G	21741064.39	21741064.41	21741064.45	0.0089	0.0087
Mercury	54813-02-24 23:02 G	21741152.42	21741152.46	21741152.54	0.0089	0.0080
Mercury	54813-05-24 00:29 G	21741240.46	21741240.52	21741240.61	0.0089	0.0071
Mercury	54813-08-20 01:55 G	21741328.50	21741328.58	21741328.69	0.0089	0.0063
Mercury	54813-11-16 03:22 G	21741416.54	21741416.64	21741416.75	0.0089	0.0055
Mercury	54814-02-12 04:48 G	21741504.59	21741504.70	21741504.82	0.0089	0.0047
Mercury	54814-05-11 06:00 G	21741592.64	21741592.75	21741592.88	0.0089	0.0040
Mercury	54814-08-07 07:26 G	21741680.69	21741680.81	21741680.94	0.0089	0.0031
Mercury	54814-11-03 08:53 G	21741768.74	21741768.87	21741769.00	0.0089	0.0023
Mercury	54815-01-30 10:19 G	21741856.80	21741856.93	21741857.06	0.0089	0.0015
Mercury	54815-04-28 11:31 G	21741944.85	21741944.98	21741945.12	0.0089	0.0008
Mercury	54815-07-25 12:58 G	21742032.91	21742033.04	21742033.17	0.0089	0.0001
Mercury	54815-10-21 14:10 G	21742120.96	21742121.09	21742121.23	0.0089	0.0009
Mercury	54816-01-17 15:36 G	21742209.02	21742209.15	21742209.28	0.0089	0.0016
Mercury	54816-04-14 16:48 G	21742297.08	21742297.20	21742297.33	0.0089	0.0024
Mercury	54816-07-11 18:00 G	21742385.14	21742385.25	21742385.38	0.0089	0.0032
Mercury	54816-10-07 19:26 G	21742473.20	21742473.31	21742473.43	0.0089	0.0040
Mercury	54817-01-03 20:53 G	21742561.26	21742561.37	21742561.48	0.0089	0.0047
Mercury	54817-04-01 22:05 G	21742649.32	21742649.42	21742649.53	0.0089	0.0055
Mercury	54817-06-28 23:17 G	21742737.39	21742737.47	21742737.57	0.0089	0.0063
Mercury	54817-09-25 00:29 G	21742825.45	21742825.52	21742825.61	0.0089	0.0071
Mercury	54817-12-22 02:10 G	21742913.53	21742913.59	21742913.65	0.0089	0.0078
Mercury	54818-03-20 03:07 G	21743001.61	21743001.63	21743001.67	0.0089	0.0086
Moon	54825-03-01 00:29 G	21745539.46	21745539.52	21745539.62	0.0089	0.0084
Earth	54825-03-01 03:50 G	21745539.61	21745539.66	21745539.77	0.0089	0.0085 *
Earth	54826-03-03 16:19 G	21745907.00	21745907.18	21745907.41	0.0089	0.0055
Moon	54826-03-03 19:26 G	21745907.11	21745907.31	21745907.53	0.0089	0.0055 *
Jupiter	54826-06-24 12:43 G	21746019.57	21746020.03	21746020.55	0.0089	0.0038
Moon	54827-03-06 02:38 G	21746274.38	21746274.61	21746274.87	0.0089	0.0024

Earth	54827-03-06 05:02 G	21746274.47	21746274.71	21746274.97	0.0089	0.0025	*
Earth	54828-03-07 17:17 G	21746641.96	21746642.22	21746642.48	0.0089	0.0005	
Moon	54828-03-07 18:29 G	21746642.00	21746642.27	21746642.54	0.0089	0.0004	*
Earth	54829-03-10 05:31 G	21747009.49	21747009.73	21747009.97	0.0088	0.0035	
Moon	54829-03-10 05:46 G	21747009.52	21747009.74	21747009.98	0.0088	0.0036	*
Moon	54830-03-12 15:50 G	21747377.00	21747377.16	21747377.37	0.0088	0.0064	
Earth	54830-03-12 17:31 G	21747377.06	21747377.23	21747377.41	0.0088	0.0065	*
Venus	54842-03-31 12:29 G	21751778.97	21751779.02	21751779.12	0.0088	0.0083	
Venus	54842-11-12 01:12 G	21752004.47	21752004.55	21752004.69	0.0088	0.0077	
Venus	54843-06-25 14:10 G	21752229.97	21752230.09	21752230.24	0.0088	0.0069	
Venus	54844-02-06 03:07 G	21752455.49	21752455.63	21752455.80	0.0088	0.0062	
Venus	54844-09-18 16:05 G	21752681.01	21752681.17	21752681.35	0.0088	0.0055	
Venus	54845-05-02 04:48 G	21752906.52	21752906.70	21752906.89	0.0088	0.0048	
Venus	54845-12-13 17:31 G	21753132.04	21753132.23	21753132.43	0.0088	0.0041	
Venus	54846-07-27 06:14 G	21753357.57	21753357.76	21753357.97	0.0088	0.0034	
Venus	54847-03-09 19:12 G	21753583.09	21753583.30	21753583.51	0.0088	0.0027	
Venus	54847-10-21 07:55 G	21753808.62	21753808.83	21753809.05	0.0088	0.0020	
Venus	54848-06-02 20:38 G	21754034.14	21754034.36	21754034.58	0.0088	0.0013	
Venus	54849-01-14 09:22 G	21754259.67	21754259.89	21754260.12	0.0088	0.0006	
Venus	54849-08-27 22:19 G	21754485.21	21754485.43	21754485.65	0.0088	0.0002	
Venus	54850-04-10 10:48 G	21754710.74	21754710.95	21754711.18	0.0088	0.0008	
Venus	54850-11-21 23:31 G	21754936.27	21754936.48	21754936.70	0.0088	0.0015	
Venus	54851-07-05 12:14 G	21755161.80	21755162.01	21755162.23	0.0088	0.0022	
Venus	54852-02-16 01:12 G	21755387.35	21755387.55	21755387.76	0.0088	0.0029	
Venus	54852-09-28 13:55 G	21755612.88	21755613.08	21755613.29	0.0088	0.0036	
Venus	54853-05-12 02:38 G	21755838.42	21755838.61	21755838.81	0.0088	0.0043	
Venus	54853-12-23 15:07 G	21756063.96	21756064.13	21756064.32	0.0088	0.0050	
Venus	54854-08-06 03:50 G	21756289.51	21756289.66	21756289.84	0.0088	0.0057	
Venus	54855-03-19 16:34 G	21756515.06	21756515.19	21756515.36	0.0088	0.0064	
Venus	54855-10-31 05:02 G	21756740.61	21756740.71	21756740.86	0.0088	0.0071	

Venus	54856-06-12 17:46 G	21756966.16	21756966.24	21756966.36	0.0088	0.0078
Venus	54857-01-24 06:43 G	21757191.73	21757191.78	21757191.85	0.0088	0.0084
Mars	54865-06-28 19:12 G	21760269.05	21760269.30	21760269.56	0.0088	0.0042
Mars	54867-05-23 09:22 G	21760962.73	21760962.89	21760963.08	0.0088	0.0070
Mercury	54897-04-25 03:36 G	21771892.58	21771892.65	21771892.76	0.0088	0.0079
Mercury	54897-07-22 07:12 G	21771980.69	21771980.80	21771980.94	0.0088	0.0067
Mercury	54897-10-18 10:48 G	21772068.81	21772068.95	21772069.11	0.0088	0.0056
Mercury	54898-01-14 14:10 G	21772156.94	21772157.09	21772157.27	0.0088	0.0046
Mercury	54898-04-12 17:46 G	21772245.07	21772245.24	21772245.43	0.0088	0.0034
Mercury	54898-07-09 21:22 G	21772333.21	21772333.39	21772333.59	0.0088	0.0023
Mercury	54898-10-06 01:12 G	21772421.35	21772421.55	21772421.74	0.0088	0.0012
Mercury	54899-01-02 04:34 G	21772509.50	21772509.69	21772509.89	0.0088	0.0002
Mercury	54899-03-31 08:10 G	21772597.65	21772597.84	21772598.04	0.0088	0.0011
Mercury	54899-06-27 11:31 G	21772685.80	21772685.98	21772686.18	0.0088	0.0022
Mercury	54899-09-23 15:07 G	21772773.96	21772774.13	21772774.32	0.0088	0.0033
Mercury	54899-12-20 18:43 G	21772862.12	21772862.28	21772862.46	0.0088	0.0045
Mercury	54900-03-18 22:34 G	21772950.29	21772950.44	21772950.59	0.0088	0.0056
Mercury	54900-06-15 01:41 G	21773038.46	21773038.57	21773038.71	0.0088	0.0067
Mercury	54900-09-11 05:17 G	21773126.65	21773126.72	21773126.83	0.0088	0.0079
Moon	54908-09-03 04:34 G	21776040.60	21776040.69	21776040.82	0.0089	0.0080
Earth	54908-09-03 06:29 G	21776040.70	21776040.77	21776040.88	0.0089	0.0083 *
Earth	54909-09-05 17:46 G	21776408.04	21776408.24	21776408.45	0.0089	0.0053
Moon	54909-09-05 17:46 G	21776408.06	21776408.24	21776408.46	0.0089	0.0057 *
Earth	54910-09-08 04:48 G	21776775.46	21776775.70	21776775.96	0.0089	0.0024
Moon	54910-09-08 05:31 G	21776775.49	21776775.73	21776775.97	0.0089	0.0021 *
Moon	54911-09-10 14:10 G	21777142.83	21777143.09	21777143.36	0.0089	0.0003
Earth	54911-09-10 16:05 G	21777142.91	21777143.17	21777143.43	0.0089	0.0006 *
Earth	54912-09-12 02:53 G	21777510.40	21777510.62	21777510.87	0.0089	0.0036
Moon	54912-09-12 06:00 G	21777510.53	21777510.75	21777510.98	0.0089	0.0039 *
Moon	54913-09-14 10:34 G	21777877.78	21777877.94	21777878.15	0.0089	0.0063

Earth	54913-09-14 13:41 G	21777877.93	21777878.07	21777878.27	0.0089	0.0066 *
Venus	54924-12-28 01:55 G	21782000.57	21782000.58	21782000.64	0.0089	0.0089
Venus	54925-08-10 15:22 G	21782226.07	21782226.14	21782226.25	0.0089	0.0081
Venus	54926-03-24 05:02 G	21782451.59	21782451.71	21782451.84	0.0089	0.0074
Venus	54926-11-04 18:14 G	21782677.12	21782677.26	21782677.41	0.0089	0.0067
Venus	54927-06-18 07:12 G	21782902.65	21782902.80	21782902.98	0.0089	0.0060
Venus	54928-01-29 20:24 G	21783128.19	21783128.35	21783128.55	0.0089	0.0053
Venus	54928-09-11 09:50 G	21783353.74	21783353.91	21783354.12	0.0089	0.0045
Venus	54929-04-24 23:17 G	21783579.28	21783579.47	21783579.68	0.0089	0.0038
Venus	54929-12-06 12:29 G	21783804.83	21783805.02	21783805.24	0.0089	0.0031
Venus	54930-07-20 01:55 G	21784030.38	21784030.58	21784030.80	0.0089	0.0023
Venus	54931-03-02 15:22 G	21784255.93	21784256.14	21784256.36	0.0089	0.0016
Venus	54931-10-14 04:48 G	21784481.48	21784481.70	21784481.92	0.0089	0.0008
Venus	54932-05-26 18:00 G	21784707.03	21784707.25	21784707.47	0.0089	0.0001
Venus	54933-01-07 07:12 G	21784932.59	21784932.80	21784933.02	0.0089	0.0007
Venus	54933-08-20 20:38 G	21785158.15	21785158.36	21785158.58	0.0089	0.0014
Venus	54934-04-03 09:50 G	21785383.70	21785383.91	21785384.13	0.0089	0.0021
Venus	54934-11-14 23:02 G	21785609.26	21785609.46	21785609.68	0.0090	0.0029
Venus	54935-06-28 12:29 G	21785834.82	21785835.02	21785835.22	0.0090	0.0036
Venus	54936-02-09 01:26 G	21786060.38	21786060.56	21786060.77	0.0090	0.0044
Venus	54936-09-21 14:53 G	21786285.95	21786286.12	21786286.31	0.0090	0.0051
Venus	54937-05-05 04:19 G	21786511.52	21786511.68	21786511.85	0.0090	0.0058
Venus	54937-12-16 17:46 G	21786737.09	21786737.24	21786737.39	0.0090	0.0065
Venus	54938-07-30 06:43 G	21786962.67	21786962.78	21786962.93	0.0090	0.0073
Venus	54939-03-12 19:55 G	21787188.26	21787188.33	21787188.46	0.0090	0.0080
Venus	54939-10-24 09:22 G	21787413.86	21787413.89	21787413.97	0.0090	0.0087
Mars	54947-05-10 03:36 G	21790168.57	21790168.65	21790168.81	0.0090	0.0084
Mars	54949-04-05 12:43 G	21790864.80	21790865.03	21790865.31	0.0090	0.0058
Mercury	54977-08-26 21:07 G	21801235.35	21801235.38	21801235.43	0.0089	0.0085
Mercury	54977-11-22 22:34 G	21801323.38	21801323.44	21801323.51	0.0089	0.0077

Mercury	54978-02-19 00:00 G	21801411.42	21801411.50	21801411.59	0.0089	0.0069
Mercury	54978-05-18 01:12 G	21801499.46	21801499.55	21801499.65	0.0089	0.0061
Mercury	54978-08-14 02:38 G	21801587.51	21801587.61	21801587.72	0.0089	0.0053
Mercury	54978-11-10 04:05 G	21801675.56	21801675.67	21801675.79	0.0089	0.0045
Mercury	54979-02-06 05:31 G	21801763.61	21801763.73	21801763.85	0.0089	0.0037
Mercury	54979-05-05 06:43 G	21801851.66	21801851.78	21801851.91	0.0089	0.0030
Mercury	54979-08-01 08:10 G	21801939.71	21801939.84	21801939.97	0.0089	0.0022
Mercury	54979-10-28 09:22 G	21802027.76	21802027.89	21802028.03	0.0089	0.0014
Mercury	54980-01-24 10:48 G	21802115.82	21802115.95	21802116.09	0.0089	0.0006
Mercury	54980-04-21 12:14 G	21802203.88	21802204.01	21802204.14	0.0089	0.0003
Mercury	54980-07-18 13:26 G	21802291.93	21802292.06	21802292.20	0.0089	0.0010
Mercury	54980-10-14 14:53 G	21802379.99	21802380.12	21802380.25	0.0089	0.0018
Mercury	54981-01-10 16:05 G	21802468.05	21802468.17	21802468.30	0.0089	0.0026
Mercury	54981-04-08 17:17 G	21802556.11	21802556.22	21802556.35	0.0089	0.0034
Mercury	54981-07-05 18:43 G	21802644.17	21802644.28	21802644.40	0.0089	0.0041
Mercury	54981-10-01 20:10 G	21802732.23	21802732.34	21802732.45	0.0089	0.0049
Mercury	54981-12-28 21:22 G	21802820.29	21802820.39	21802820.50	0.0089	0.0057
Mercury	54982-03-26 22:34 G	21802908.36	21802908.44	21802908.54	0.0089	0.0065
Mercury	54982-06-23 00:00 G	21802996.43	21802996.50	21802996.58	0.0089	0.0072
Mercury	54982-09-19 01:12 G	21803084.50	21803084.55	21803084.61	0.0089	0.0080
Mercury	54982-12-16 02:24 G	21803172.59	21803172.60	21803172.63	0.0089	0.0088
Moon	54990-03-03 20:53 G	21805807.26	21805807.37	21805807.51	0.0089	0.0076
Earth	54990-03-03 22:05 G	21805807.28	21805807.42	21805807.59	0.0089	0.0071 *
Earth	54991-03-06 10:05 G	21806174.71	21806174.92	21806175.17	0.0089	0.0042
Moon	54991-03-06 10:48 G	21806174.71	21806174.95	21806175.20	0.0089	0.0037 *
Earth	54992-03-07 22:34 G	21806542.19	21806542.44	21806542.70	0.0089	0.0011
Moon	54992-03-07 23:02 G	21806542.23	21806542.46	21806542.72	0.0089	0.0017 *
Jupiter	54992-08-20 11:02 G	21806707.59	21806707.96	21806708.42	0.0089	0.0057
Moon	54993-03-10 08:10 G	21806909.60	21806909.84	21806910.11	0.0089	0.0024
Earth	54993-03-10 10:48 G	21806909.70	21806909.95	21806910.21	0.0089	0.0019 *



Earth	54994-03-12 22:48 G	21807277.25	21807277.45	21807277.68	0.0089	0.0049
Moon	54994-03-13 01:12 G	21807277.36	21807277.55	21807277.80	0.0089	0.0045 *
Moon	54995-03-15 07:41 G	21807644.73	21807644.82	21807644.91	0.0088	0.0083
Earth	54995-03-15 10:34 G	21807644.85	21807644.94	21807645.09	0.0088	0.0079 *

# 56TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 56th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	55006-07-04 21:22 G		21811773.35	21811773.39	21811773.49	0.0088	0.0083	
Venus	55007-02-15 10:34 G		21811998.85	21811998.94	21811999.07	0.0088	0.0076	
Venus	55007-09-28 23:31 G		21812224.36	21812224.48	21812224.63	0.0088	0.0069	
Venus	55008-05-11 12:29 G		21812449.88	21812450.02	21812450.19	0.0088	0.0062	
Venus	55008-12-23 01:12 G		21812675.40	21812675.55	21812675.74	0.0088	0.0056	
Venus	55009-08-05 14:10 G		21812900.92	21812901.09	21812901.28	0.0088	0.0048	
Venus	55010-03-19 03:07 G		21813126.44	21813126.63	21813126.83	0.0088	0.0041	
Venus	55010-10-30 15:50 G		21813351.96	21813352.16	21813352.37	0.0088	0.0034	
Venus	55011-06-13 04:19 G		21813577.49	21813577.68	21813577.91	0.0088	0.0028	
Venus	55012-01-24 17:17 G		21813803.02	21813803.22	21813803.45	0.0088	0.0021	
Venus	55012-09-06 06:00 G		21814028.54	21814028.75	21814028.98	0.0088	0.0014	
Venus	55013-04-19 18:58 G		21814254.07	21814254.29	21814254.51	0.0088	0.0007	
Venus	55013-12-01 07:41 G		21814479.60	21814479.82	21814480.04	0.0088	0.0001	
Venus	55014-07-14 20:24 G		21814705.13	21814705.35	21814705.57	0.0088	0.0007	

Venus	55015-02-25 09:07 G	21814930.67	21814930.88	21814931.10	0.0088	0.0015
Venus	55015-10-08 22:05 G	21815156.20	21815156.42	21815156.63	0.0088	0.0021
Venus	55016-05-21 10:48 G	21815381.74	21815381.95	21815382.16	0.0088	0.0028
Venus	55017-01-01 23:31 G	21815607.28	21815607.48	21815607.68	0.0088	0.0035
Venus	55017-08-15 12:00 G	21815832.82	21815833.00	21815833.20	0.0088	0.0042
Venus	55018-03-29 00:58 G	21816058.36	21816058.54	21816058.73	0.0088	0.0049
Venus	55018-11-09 13:26 G	21816283.90	21816284.06	21816284.24	0.0088	0.0056
Venus	55019-06-23 02:10 G	21816509.45	21816509.59	21816509.76	0.0088	0.0063
Venus	55020-02-03 14:53 G	21816735.00	21816735.12	21816735.27	0.0088	0.0070
Venus	55020-09-16 03:50 G	21816960.56	21816960.66	21816960.77	0.0088	0.0076
Venus	55021-04-29 16:19 G	21817186.13	21817186.18	21817186.26	0.0088	0.0083
Mars	55031-01-07 20:38 G	21820726.09	21820726.36	21820726.66	0.0088	0.0024
Mercury	55061-10-25 22:19 G	21831975.40	21831975.43	21831975.49	0.0088	0.0085
Mercury	55062-01-22 01:41 G	21832063.49	21832063.57	21832063.69	0.0088	0.0075
Mercury	55062-04-20 05:17 G	21832151.60	21832151.72	21832151.87	0.0088	0.0064
Mercury	55062-07-17 08:53 G	21832239.72	21832239.87	21832240.03	0.0088	0.0052
Mercury	55062-10-13 12:14 G	21832327.85	21832328.01	21832328.19	0.0088	0.0042
Mercury	55063-01-09 15:50 G	21832415.99	21832416.16	21832416.35	0.0088	0.0031
Mercury	55063-04-07 19:26 G	21832504.13	21832504.31	21832504.50	0.0088	0.0019
Mercury	55063-07-04 23:02 G	21832592.27	21832592.46	21832592.66	0.0088	0.0008
Mercury	55063-10-01 02:38 G	21832680.41	21832680.61	21832680.80	0.0088	0.0003
Mercury	55063-12-28 06:00 G	21832768.56	21832768.75	21832768.95	0.0088	0.0014
Mercury	55064-03-25 09:36 G	21832856.72	21832856.90	21832857.09	0.0088	0.0026
Mercury	55064-06-21 13:12 G	21832944.88	21832945.05	21832945.23	0.0088	0.0037
Mercury	55064-09-17 16:19 G	21833033.04	21833033.18	21833033.36	0.0088	0.0049
Mercury	55064-12-14 19:55 G	21833121.21	21833121.33	21833121.49	0.0088	0.0060
Mercury	55065-03-12 23:46 G	21833209.38	21833209.49	21833209.61	0.0088	0.0071
Mercury	55065-06-09 03:36 G	21833297.58	21833297.65	21833297.72	0.0088	0.0082
Earth	55073-09-06 01:41 G	21836308.43	21836308.57	21836308.75	0.0089	0.0069
Moon	55073-09-06 03:07 G	21836308.49	21836308.63	21836308.82	0.0089	0.0067 *

Moon	55074-09-08 10:19 G	21836675.72	21836675.93	21836676.18	0.0089	0.0042
Earth	55074-09-08 12:58 G	21836675.82	21836676.04	21836676.28	0.0089	0.0039 *
Earth	55075-09-11 00:00 G	21837043.26	21837043.50	21837043.77	0.0089	0.0010
Moon	55075-09-11 03:22 G	21837043.39	21837043.64	21837043.89	0.0089	0.0006 *
Moon	55076-09-12 07:26 G	21837410.57	21837410.81	21837411.08	0.0089	0.0018
Earth	55076-09-12 11:31 G	21837410.73	21837410.98	21837411.23	0.0089	0.0020 *
Earth	55077-09-14 22:05 G	21837778.22	21837778.42	21837778.65	0.0089	0.0050
Moon	55077-09-15 01:26 G	21837778.37	21837778.56	21837778.78	0.0089	0.0053 *
Moon	55078-09-17 06:00 G	21838145.64	21838145.75	21838145.90	0.0089	0.0076
Earth	55078-09-17 08:53 G	21838145.79	21838145.87	21838146.01	0.0089	0.0080 *
Venus	55089-04-01 12:00 G	21841994.97	21841995.00	21841995.06	0.0089	0.0087
Venus	55089-11-13 01:12 G	21842220.47	21842220.55	21842220.65	0.0089	0.0081
Venus	55090-06-26 14:24 G	21842445.99	21842446.10	21842446.23	0.0089	0.0074
Venus	55091-02-07 03:36 G	21842671.52	21842671.65	21842671.81	0.0089	0.0067
Venus	55091-09-20 16:48 G	21842897.05	21842897.20	21842897.38	0.0089	0.0059
Venus	55092-05-03 05:46 G	21843122.58	21843122.74	21843122.94	0.0089	0.0053
Venus	55092-12-14 18:58 G	21843348.12	21843348.29	21843348.50	0.0089	0.0046
Venus	55093-07-28 08:53 G	21843573.67	21843573.87	21843574.07	0.0089	0.0038
Venus	55094-03-10 22:05 G	21843799.22	21843799.42	21843799.63	0.0089	0.0031
Venus	55094-10-22 11:17 G	21844024.76	21844024.97	21844025.19	0.0089	0.0023
Venus	55095-06-05 00:29 G	21844250.31	21844250.52	21844250.74	0.0089	0.0016
Venus	55096-01-16 13:55 G	21844475.86	21844476.08	21844476.30	0.0089	0.0009
Venus	55096-08-29 03:22 G	21844701.42	21844701.64	21844701.86	0.0089	0.0001
Venus	55097-04-11 16:34 G	21844926.97	21844927.19	21844927.41	0.0089	0.0006
Venus	55097-11-23 05:46 G	21845152.53	21845152.74	21845152.96	0.0089	0.0013
Venus	55098-07-06 18:58 G	21845378.09	21845378.29	21845378.51	0.0089	0.0021
Venus	55099-02-17 08:24 G	21845603.65	21845603.85	21845604.06	0.0089	0.0028
Venus	55099-09-30 21:50 G	21845829.21	21845829.41	21845829.61	0.0090	0.0035
Venus	55100-05-14 10:34 G	21846054.77	21846054.94	21846055.15	0.0090	0.0043
Venus	55100-12-26 00:00 G	21846280.33	21846280.50	21846280.70	0.0090	0.0050

Venus	55101-08-08 13:26 G	21846505.90	21846506.06	21846506.24	0.0090	0.0057
Venus	55102-03-22 02:38 G	21846731.47	21846731.61	21846731.78	0.0090	0.0064
Venus	55102-11-02 16:05 G	21846957.04	21846957.17	21846957.31	0.0090	0.0071
Venus	55103-06-16 05:17 G	21847182.62	21847182.72	21847182.84	0.0090	0.0078
Venus	55104-01-27 18:43 G	21847408.22	21847408.28	21847408.35	0.0090	0.0085
Mars	55112-11-18 18:43 G	21850625.94	21850626.28	21850626.62	0.0090	0.0002
Mercury	55142-05-25 20:24 G	21861406.32	21861406.35	21861406.41	0.0089	0.0083
Mercury	55142-08-21 21:50 G	21861494.35	21861494.41	21861494.49	0.0089	0.0075
Mercury	55142-11-17 23:17 G	21861582.39	21861582.47	21861582.56	0.0089	0.0067
Mercury	55143-02-14 00:43 G	21861670.43	21861670.53	21861670.63	0.0089	0.0059
Mercury	55143-05-13 01:55 G	21861758.48	21861758.58	21861758.70	0.0089	0.0052
Mercury	55143-08-09 03:22 G	21861846.53	21861846.64	21861846.76	0.0089	0.0043
Mercury	55143-11-05 04:48 G	21861934.58	21861934.70	21861934.82	0.0089	0.0035
Mercury	55144-02-01 06:00 G	21862022.63	21862022.75	21862022.88	0.0089	0.0028
Mercury	55144-04-29 07:26 G	21862110.68	21862110.81	21862110.94	0.0089	0.0020
Mercury	55144-07-26 08:53 G	21862198.74	21862198.87	21862199.00	0.0089	0.0012
Mercury	55144-10-22 10:05 G	21862286.79	21862286.92	21862287.06	0.0089	0.0004
Mercury	55145-01-18 11:31 G	21862374.85	21862374.98	21862375.11	0.0089	0.0004
Mercury	55145-04-16 12:43 G	21862462.90	21862463.03	21862463.17	0.0089	0.0012
Mercury	55145-07-13 14:10 G	21862550.96	21862551.09	21862551.22	0.0089	0.0020
Mercury	55145-10-09 15:22 G	21862639.02	21862639.14	21862639.27	0.0089	0.0028
Mercury	55146-01-05 16:48 G	21862727.08	21862727.20	21862727.32	0.0089	0.0035
Mercury	55146-04-03 18:00 G	21862815.14	21862815.25	21862815.37	0.0089	0.0043
Mercury	55146-06-30 19:26 G	21862903.21	21862903.31	21862903.42	0.0089	0.0051
Mercury	55146-09-26 20:38 G	21862991.27	21862991.36	21862991.47	0.0089	0.0059
Mercury	55146-12-23 21:50 G	21863079.34	21863079.41	21863079.51	0.0089	0.0067
Mercury	55147-03-21 23:17 G	21863167.41	21863167.47	21863167.55	0.0089	0.0074
Mercury	55147-06-18 00:29 G	21863255.48	21863255.52	21863255.58	0.0089	0.0082
Moon	55154-03-05 04:05 G	21865707.65	21865707.67	21865707.71	0.0089	0.0088
Earth	55154-03-05 04:34 G	21865707.66	21865707.69	21865707.75	0.0089	0.0087 *

Earth	55155-03-07 16:34 G	21866075.01	21866075.19	21866075.41	0.0089	0.0058
Moon	55155-03-07 18:43 G	21866075.09	21866075.28	21866075.47	0.0089	0.0056 *
Moon	55156-03-09 02:24 G	21866442.36	21866442.60	21866442.87	0.0089	0.0028
Earth	55156-03-09 04:48 G	21866442.47	21866442.70	21866442.96	0.0089	0.0028 *
Earth	55157-03-11 17:17 G	21866809.97	21866810.22	21866810.48	0.0089	0.0003
Moon	55157-03-11 20:53 G	21866810.11	21866810.37	21866810.63	0.0089	0.0004 *
Moon	55158-03-14 02:10 G	21867177.35	21867177.59	21867177.84	0.0089	0.0032
Earth	55158-03-14 05:31 G	21867177.50	21867177.73	21867177.98	0.0089	0.0033 *
Earth	55159-03-16 17:17 G	21867545.06	21867545.22	21867545.42	0.0088	0.0063
Moon	55159-03-16 21:22 G	21867545.21	21867545.39	21867545.58	0.0088	0.0062 *
Venus	55170-10-07 07:12 G	21871767.74	21871767.80	21871767.90	0.0088	0.0083
Venus	55171-05-20 20:24 G	21871993.24	21871993.35	21871993.47	0.0088	0.0075
Venus	55172-01-01 08:53 G	21872218.76	21872218.87	21872219.03	0.0088	0.0069
Venus	55172-08-13 21:50 G	21872444.27	21872444.41	21872444.58	0.0088	0.0062
Venus	55173-03-27 10:48 G	21872669.79	21872669.95	21872670.13	0.0088	0.0055
Venus	55173-11-07 23:46 G	21872895.31	21872895.49	21872895.68	0.0088	0.0048
Venus	55174-06-21 12:43 G	21873120.84	21873121.03	21873121.22	0.0088	0.0041
Venus	55175-02-02 01:41 G	21873346.37	21873346.57	21873346.77	0.0088	0.0034
Venus	55175-09-15 14:10 G	21873571.89	21873572.09	21873572.31	0.0088	0.0028
Venus	55176-04-28 02:53 G	21873797.42	21873797.62	21873797.85	0.0088	0.0021
Venus	55176-12-09 15:50 G	21874022.94	21874023.16	21874023.38	0.0088	0.0014
Venus	55177-07-23 04:34 G	21874248.47	21874248.69	21874248.91	0.0088	0.0007
Venus	55178-03-05 17:31 G	21874474.01	21874474.23	21874474.45	0.0088	0.0000
Venus	55178-10-17 06:14 G	21874699.54	21874699.76	21874699.98	0.0088	0.0007
Venus	55179-05-30 18:43 G	21874925.07	21874925.28	21874925.51	0.0088	0.0014
Venus	55180-01-11 07:26 G	21875150.60	21875150.81	21875151.03	0.0088	0.0021
Venus	55180-08-23 20:10 G	21875376.14	21875376.34	21875376.56	0.0088	0.0028
Venus	55181-04-06 08:53 G	21875601.68	21875601.87	21875602.08	0.0088	0.0035
Venus	55181-11-17 21:50 G	21875827.22	21875827.41	21875827.61	0.0088	0.0041
Venus	55182-07-01 10:34 G	21876052.76	21876052.94	21876053.13	0.0088	0.0048

Venus	55183-02-11 23:17 G	21876278.31	21876278.47	21876278.65	0.0088	0.0055
Venus	55183-09-25 11:46 G	21876503.86	21876503.99	21876504.17	0.0088	0.0062
Venus	55184-05-08 00:29 G	21876729.40	21876729.52	21876729.68	0.0088	0.0069
Venus	55184-12-19 13:26 G	21876954.96	21876955.06	21876955.18	0.0088	0.0075
Venus	55185-08-02 01:55 G	21877180.52	21877180.58	21877180.68	0.0088	0.0082
Mars	55194-08-24 09:22 G	21880489.62	21880489.89	21880490.18	0.0088	0.0023
Mercury	55226-07-23 20:24 G	21892146.30	21892146.35	21892146.45	0.0088	0.0081
Mercury	55226-10-20 00:00 G	21892234.40	21892234.50	21892234.63	0.0088	0.0070
Mercury	55227-01-16 03:22 G	21892322.52	21892322.64	21892322.80	0.0088	0.0060
Mercury	55227-04-14 06:58 G	21892410.64	21892410.79	21892410.97	0.0088	0.0048
Mercury	55227-07-11 10:34 G	21892498.78	21892498.94	21892499.13	0.0088	0.0037
Mercury	55227-10-07 14:10 G	21892586.91	21892587.09	21892587.28	0.0088	0.0026
Mercury	55228-01-03 17:46 G	21892675.05	21892675.24	21892675.43	0.0088	0.0015
Mercury	55228-03-31 21:22 G	21892763.20	21892763.39	21892763.58	0.0088	0.0004
Mercury	55228-06-28 00:58 G	21892851.34	21892851.54	21892851.73	0.0088	0.0008
Mercury	55228-09-24 04:05 G	21892939.49	21892939.67	21892939.87	0.0088	0.0020
Mercury	55228-12-21 07:41 G	21893027.65	21893027.82	21893028.01	0.0088	0.0030
Mercury	55229-03-19 11:17 G	21893115.81	21893115.97	21893116.15	0.0088	0.0041
Mercury	55229-06-15 14:53 G	21893203.97	21893204.12	21893204.28	0.0088	0.0052
Mercury	55229-09-11 18:29 G	21893292.14	21893292.27	21893292.41	0.0088	0.0064
Mercury	55229-12-08 21:36 G	21893380.32	21893380.40	21893380.53	0.0088	0.0076
Mercury	55230-03-07 01:26 G	21893468.54	21893468.56	21893468.61	0.0088	0.0086
Moon	55237-09-06 07:26 G	21896208.72	21896208.81	21896208.95	0.0089	0.0080
Earth	55237-09-06 10:48 G	21896208.89	21896208.95	21896209.04	0.0089	0.0084 *
Earth	55238-09-08 21:36 G	21896576.23	21896576.40	21896576.63	0.0089	0.0055
Moon	55238-09-09 01:12 G	21896576.38	21896576.55	21896576.76	0.0089	0.0059 *
Moon	55239-09-11 05:46 G	21896943.50	21896943.74	21896944.00	0.0089	0.0021
Earth	55239-09-11 09:22 G	21896943.65	21896943.89	21896944.14	0.0089	0.0025 *
Earth	55240-09-12 20:24 G	21897311.10	21897311.35	21897311.61	0.0089	0.0005
Moon	55240-09-12 23:46 G	21897311.23	21897311.49	21897311.75	0.0089	0.0002 *

Moon	55241-09-15 04:48 G	21897678.49	21897678.70	21897678.94	0.0089	0.0039
Earth	55241-09-15 07:12 G	21897678.58	21897678.80	21897679.05	0.0089	0.0035 *
Earth	55242-09-17 18:00 G	21898046.10	21898046.25	21898046.45	0.0089	0.0065
Moon	55242-09-17 20:10 G	21898046.17	21898046.34	21898046.55	0.0089	0.0061 *
Venus	55253-07-04 22:19 G	21901989.38	21901989.43	21901989.48	0.0089	0.0087
Venus	55254-02-15 10:48 G	21902214.88	21902214.95	21902215.07	0.0089	0.0081
Venus	55254-09-29 00:00 G	21902440.40	21902440.50	21902440.65	0.0089	0.0074
Venus	55255-05-12 13:12 G	21902665.93	21902666.05	21902666.22	0.0089	0.0067
Venus	55255-12-24 02:24 G	21902891.46	21902891.60	21902891.79	0.0089	0.0060
Venus	55256-08-05 15:50 G	21903117.00	21903117.16	21903117.35	0.0089	0.0052
Venus	55257-03-19 05:02 G	21903342.54	21903342.71	21903342.92	0.0089	0.0045
Venus	55257-10-30 18:43 G	21903568.08	21903568.28	21903568.47	0.0089	0.0038
Venus	55258-06-13 07:41 G	21903793.62	21903793.82	21903794.03	0.0089	0.0031
Venus	55259-01-24 20:53 G	21904019.17	21904019.37	21904019.59	0.0089	0.0024
Venus	55259-09-07 10:19 G	21904244.72	21904244.93	21904245.15	0.0089	0.0016
Venus	55260-04-19 23:31 G	21904470.27	21904470.48	21904470.71	0.0089	0.0010
Venus	55260-12-01 12:58 G	21904695.82	21904696.04	21904696.26	0.0089	0.0002
Venus	55261-07-15 02:24 G	21904921.38	21904921.60	21904921.82	0.0089	0.0006
Venus	55262-02-25 15:50 G	21905146.94	21905147.16	21905147.37	0.0089	0.0013
Venus	55262-10-09 04:48 G	21905372.50	21905372.70	21905372.93	0.0089	0.0021
Venus	55263-05-22 18:00 G	21905598.06	21905598.25	21905598.47	0.0089	0.0028
Venus	55264-01-03 07:26 G	21905823.62	21905823.81	21905824.02	0.0089	0.0035
Venus	55264-08-15 20:53 G	21906049.18	21906049.37	21906049.57	0.0089	0.0042
Venus	55265-03-29 10:05 G	21906274.75	21906274.92	21906275.12	0.0090	0.0049
Venus	55265-11-09 23:31 G	21906500.31	21906500.48	21906500.66	0.0090	0.0056
Venus	55266-06-23 12:43 G	21906725.88	21906726.03	21906726.19	0.0090	0.0063
Venus	55267-02-04 01:55 G	21906951.46	21906951.58	21906951.73	0.0090	0.0070
Venus	55267-09-17 15:22 G	21907177.04	21907177.14	21907177.26	0.0090	0.0077
Venus	55268-04-30 04:34 G	21907402.63	21907402.69	21907402.78	0.0090	0.0084
Mars	55276-07-02 00:14 G	21910387.29	21910387.51	21910387.79	0.0090	0.0062

Mars	55278-05-29 10:05 G	21911083.82	21911083.92	21911084.09	0.0090	0.0082
Mercury	55306-11-24 18:43 G	21921489.27	21921489.28	21921489.30	0.0089	0.0088
Mercury	55307-02-20 20:10 G	21921577.29	21921577.34	21921577.40	0.0089	0.0080
Mercury	55307-05-19 21:22 G	21921665.32	21921665.39	21921665.47	0.0089	0.0073
Mercury	55307-08-15 22:48 G	21921753.36	21921753.45	21921753.55	0.0089	0.0065
Mercury	55307-11-12 00:14 G	21921841.41	21921841.51	21921841.61	0.0089	0.0057
Mercury	55308-02-08 01:26 G	21921929.46	21921929.56	21921929.68	0.0089	0.0049
Mercury	55308-05-06 02:53 G	21922017.51	21922017.62	21922017.74	0.0089	0.0041
Mercury	55308-08-02 04:05 G	21922105.56	21922105.67	21922105.80	0.0089	0.0033
Mercury	55308-10-29 05:31 G	21922193.61	21922193.73	21922193.86	0.0089	0.0025
Mercury	55309-01-25 06:58 G	21922281.66	21922281.79	21922281.92	0.0089	0.0017
Mercury	55309-04-23 08:24 G	21922369.72	21922369.85	21922369.98	0.0089	0.0009
Mercury	55309-07-20 09:36 G	21922457.77	21922457.90	21922458.04	0.0089	0.0003
Mercury	55309-10-16 11:02 G	21922545.83	21922545.96	21922546.09	0.0089	0.0007
Mercury	55310-01-12 12:14 G	21922633.88	21922634.01	21922634.15	0.0089	0.0015
Mercury	55310-04-10 13:41 G	21922721.94	21922722.07	21922722.20	0.0089	0.0022
Mercury	55310-07-07 14:53 G	21922810.00	21922810.12	21922810.25	0.0089	0.0030
Mercury	55310-10-03 16:19 G	21922898.06	21922898.18	21922898.30	0.0089	0.0038
Mercury	55310-12-30 17:31 G	21922986.12	21922986.23	21922986.35	0.0089	0.0046
Mercury	55311-03-28 18:43 G	21923074.19	21923074.28	21923074.40	0.0089	0.0054
Mercury	55311-06-24 20:10 G	21923162.25	21923162.34	21923162.44	0.0089	0.0061
Mercury	55311-09-20 21:36 G	21923250.32	21923250.40	21923250.48	0.0089	0.0069
Mercury	55311-12-17 22:48 G	21923338.39	21923338.45	21923338.52	0.0089	0.0077
Mercury	55312-03-15 00:00 G	21923426.47	21923426.50	21923426.55	0.0089	0.0085
Moon	55319-03-07 20:38 G	21925975.25	21925975.36	21925975.51	0.0089	0.0077
Earth	55319-03-08 00:00 G	21925975.37	21925975.50	21925975.66	0.0089	0.0073 *
Earth	55320-03-09 12:14 G	21926342.79	21926343.01	21926343.24	0.0089	0.0043
Moon	55320-03-09 15:22 G	21926342.92	21926343.14	21926343.39	0.0089	0.0039 *
Moon	55321-03-11 20:38 G	21926710.12	21926710.36	21926710.62	0.0089	0.0018
Earth	55321-03-12 00:29 G	21926710.27	21926710.52	21926710.78	0.0089	0.0013 *



Earth	55322-03-14 12:29 G	21927077.77	21927078.02	21927078.28	0.0089	0.0017
Moon	55322-03-14 15:07 G	21927077.89	21927078.13	21927078.40	0.0089	0.0022 *
Moon	55323-03-16 21:50 G	21927445.20	21927445.41	21927445.64	0.0089	0.0043
Earth	55323-03-17 00:29 G	21927445.31	21927445.52	21927445.75	0.0089	0.0047 *
Earth	55324-03-18 12:29 G	21927812.91	21927813.02	21927813.17	0.0088	0.0077
Moon	55324-03-18 13:26 G	21927812.99	21927813.06	21927813.20	0.0088	0.0082 *
Venus	55335-01-09 17:46 G	21931762.16	21931762.24	21931762.32	0.0088	0.0082
Venus	55335-08-23 06:00 G	21931987.66	21931987.75	21931987.89	0.0088	0.0076
Venus	55336-04-04 19:12 G	21932213.17	21932213.30	21932213.45	0.0088	0.0068
Venus	55336-11-16 08:10 G	21932438.69	21932438.84	21932439.00	0.0088	0.0061
Venus	55337-06-29 20:38 G	21932664.21	21932664.36	21932664.55	0.0088	0.0055
Venus	55338-02-10 09:50 G	21932889.74	21932889.91	21932890.11	0.0088	0.0048
Venus	55338-09-23 22:48 G	21933115.26	21933115.45	21933115.65	0.0088	0.0041
Venus	55339-05-07 11:46 G	21933340.79	21933340.99	21933341.20	0.0088	0.0034
Venus	55339-12-19 00:29 G	21933566.32	21933566.52	21933566.74	0.0088	0.0027
Venus	55340-07-31 13:12 G	21933791.85	21933792.05	21933792.27	0.0088	0.0021
Venus	55341-03-14 02:10 G	21934017.38	21934017.59	21934017.81	0.0088	0.0014
Venus	55341-10-25 15:07 G	21934242.91	21934243.13	21934243.35	0.0088	0.0007
Venus	55342-06-08 03:50 G	21934468.44	21934468.66	21934468.88	0.0088	0.0000
Venus	55343-01-19 16:34 G	21934693.97	21934694.19	21934694.41	0.0088	0.0007
Venus	55343-09-02 05:17 G	21934919.50	21934919.72	21934919.94	0.0088	0.0014
Venus	55344-04-14 17:46 G	21935145.04	21935145.24	21935145.47	0.0088	0.0021
Venus	55344-11-26 06:43 G	21935370.57	21935370.78	21935370.99	0.0088	0.0027
Venus	55345-07-09 19:12 G	21935596.11	21935596.30	21935596.51	0.0088	0.0034
Venus	55346-02-20 07:55 G	21935821.65	21935821.83	21935822.04	0.0088	0.0041
Venus	55346-10-03 20:38 G	21936047.19	21936047.36	21936047.56	0.0088	0.0048
Venus	55347-05-17 09:36 G	21936272.73	21936272.90	21936273.08	0.0088	0.0054
Venus	55347-12-28 22:05 G	21936498.27	21936498.42	21936498.59	0.0088	0.0061
Venus	55348-08-10 10:34 G	21936723.82	21936723.94	21936724.10	0.0088	0.0068
Venus	55349-03-23 23:17 G	21936949.38	21936949.47	21936949.61	0.0088	0.0075

Venus	55349-11-04 12:14 G	21937174.95	21937175.01	21937175.11	0.0088	0.0081
Venus	55350-06-18 00:58 G	21937400.54	21937400.54	21937400.58	0.0088	0.0088
Mars	55358-04-10 00:14 G	21940253.36	21940253.51	21940253.72	0.0088	0.0069
Mars	55360-03-03 12:29 G	21940946.80	21940947.02	21940947.30	0.0088	0.0045
Mercury	55391-01-22 15:22 G	21952229.13	21952229.14	21952229.18	0.0088	0.0088
Mercury	55391-04-20 18:58 G	21952317.21	21952317.29	21952317.39	0.0088	0.0076
Mercury	55391-07-17 22:19 G	21952405.32	21952405.43	21952405.57	0.0088	0.0066
Mercury	55391-10-14 01:55 G	21952493.44	21952493.58	21952493.74	0.0088	0.0055
Mercury	55392-01-10 05:31 G	21952581.57	21952581.73	21952581.90	0.0088	0.0043
Mercury	55392-04-07 08:53 G	21952669.70	21952669.87	21952670.06	0.0088	0.0033
Mercury	55392-07-04 12:29 G	21952757.84	21952758.02	21952758.21	0.0088	0.0021
Mercury	55392-09-30 16:05 G	21952845.98	21952846.17	21952846.36	0.0088	0.0010
Mercury	55392-12-27 19:41 G	21952934.13	21952934.32	21952934.51	0.0088	0.0001
Mercury	55393-03-25 23:02 G	21953022.27	21953022.46	21953022.66	0.0088	0.0012
Mercury	55393-06-22 02:38 G	21953110.43	21953110.61	21953110.80	0.0088	0.0023
Mercury	55393-09-18 06:14 G	21953198.58	21953198.76	21953198.94	0.0088	0.0035
Mercury	55393-12-15 09:50 G	21953286.74	21953286.91	21953287.08	0.0088	0.0046
Mercury	55394-03-13 12:58 G	21953374.91	21953375.04	21953375.21	0.0088	0.0058
Mercury	55394-06-09 16:34 G	21953463.08	21953463.19	21953463.33	0.0088	0.0069
Mercury	55394-09-05 20:10 G	21953551.27	21953551.34	21953551.44	0.0088	0.0080
Moon	55402-09-10 03:50 G	21956476.53	21956476.66	21956476.85	0.0089	0.0069
Earth	55402-09-10 07:55 G	21956476.67	21956476.83	21956476.99	0.0089	0.0069 *
Earth	55403-09-12 18:29 G	21956844.06	21956844.27	21956844.52	0.0089	0.0040
Moon	55403-09-12 21:50 G	21956844.19	21956844.41	21956844.65	0.0089	0.0042 *
Moon	55404-09-14 04:05 G	21957211.42	21957211.67	21957211.92	0.0089	0.0008
Earth	55404-09-14 06:14 G	21957211.51	21957211.76	21957212.02	0.0089	0.0010 *
Earth	55405-09-16 17:17 G	21957578.97	21957579.22	21957579.47	0.0089	0.0020
Moon	55405-09-16 18:00 G	21957579.00	21957579.25	21957579.52	0.0089	0.0019 *
Earth	55406-09-19 04:05 G	21957946.48	21957946.67	21957946.90	0.0089	0.0050
Moon	55406-09-19 04:19 G	21957946.49	21957946.68	21957946.89	0.0089	0.0052 *

Moon	55407-09-21 14:10 G	21958313.96	21958314.09	21958314.22	0.0089	0.0077
Earth	55407-09-21 15:07 G	21958314.04	21958314.13	21958314.26	0.0089	0.0080 *
Venus	55417-10-08 08:10 G	21961983.81	21961983.84	21961983.92	0.0089	0.0086
Venus	55418-05-21 21:22 G	21962209.31	21962209.39	21962209.51	0.0089	0.0079
Venus	55419-01-02 10:34 G	21962434.83	21962434.94	21962435.09	0.0089	0.0073
Venus	55419-08-16 00:00 G	21962660.37	21962660.50	21962660.66	0.0089	0.0065
Venus	55420-03-28 13:12 G	21962885.90	21962886.05	21962886.23	0.0089	0.0059
Venus	55420-11-09 02:24 G	21963111.43	21963111.60	21963111.79	0.0089	0.0052
Venus	55421-06-22 15:36 G	21963336.97	21963337.15	21963337.35	0.0089	0.0045
Venus	55422-02-03 04:48 G	21963562.51	21963562.70	21963562.91	0.0089	0.0038
Venus	55422-09-16 18:00 G	21963788.05	21963788.25	21963788.47	0.0089	0.0031
Venus	55423-04-30 07:12 G	21964013.60	21964013.80	21964014.02	0.0089	0.0023
Venus	55423-12-11 20:24 G	21964239.14	21964239.35	21964239.57	0.0089	0.0016
Venus	55424-07-24 09:50 G	21964464.70	21964464.91	21964465.13	0.0089	0.0009
Venus	55425-03-06 23:17 G	21964690.25	21964690.47	21964690.69	0.0089	0.0002
Venus	55425-10-18 12:29 G	21964915.80	21964916.02	21964916.24	0.0089	0.0005
Venus	55426-06-01 01:41 G	21965141.35	21965141.57	21965141.79	0.0089	0.0012
Venus	55427-01-12 14:53 G	21965366.91	21965367.12	21965367.34	0.0089	0.0020
Venus	55427-08-26 04:19 G	21965592.48	21965592.68	21965592.90	0.0089	0.0027
Venus	55428-04-07 17:46 G	21965818.04	21965818.24	21965818.44	0.0089	0.0034
Venus	55428-11-19 06:43 G	21966043.60	21966043.78	21966043.99	0.0089	0.0041
Venus	55429-07-02 19:55 G	21966269.17	21966269.33	21966269.53	0.0089	0.0049
Venus	55430-02-13 09:22 G	21966494.73	21966494.89	21966495.08	0.0090	0.0055
Venus	55430-09-26 22:34 G	21966720.31	21966720.44	21966720.62	0.0090	0.0063
Venus	55431-05-10 11:46 G	21966945.88	21966945.99	21966946.15	0.0090	0.0070
Venus	55431-12-22 00:58 G	21967171.46	21967171.54	21967171.68	0.0090	0.0077
Venus	55432-08-03 14:53 G	21967397.05	21967397.12	21967397.21	0.0090	0.0083
Mars	55442-01-11 18:29 G	21970844.96	21970845.27	21970845.62	0.0090	0.0024
Mercury	55471-08-22 18:14 G	21981660.23	21981660.26	21981660.30	0.0089	0.0085
Mercury	55471-11-18 19:41 G	21981748.26	21981748.32	21981748.39	0.0089	0.0077

Mercury	55472-02-14 21:07 G	21981836.30	21981836.38	21981836.46	0.0089	0.0069
Mercury	55472-05-12 22:19 G	21981924.34	21981924.43	21981924.53	0.0089	0.0062
Mercury	55472-08-08 23:46 G	21982012.39	21982012.49	21982012.60	0.0089	0.0053
Mercury	55472-11-05 01:12 G	21982100.44	21982100.55	21982100.67	0.0089	0.0045
Mercury	55473-02-01 02:38 G	21982188.49	21982188.61	21982188.73	0.0089	0.0037
Mercury	55473-04-30 03:50 G	21982276.54	21982276.66	21982276.79	0.0089	0.0030
Mercury	55473-07-27 05:17 G	21982364.59	21982364.72	21982364.85	0.0089	0.0022
Mercury	55473-10-23 06:43 G	21982452.65	21982452.78	21982452.91	0.0089	0.0014
Mercury	55474-01-19 07:55 G	21982540.70	21982540.83	21982540.97	0.0089	0.0006
Mercury	55474-04-17 09:22 G	21982628.76	21982628.89	21982629.02	0.0089	0.0002
Mercury	55474-07-14 10:34 G	21982716.81	21982716.94	21982717.08	0.0089	0.0010
Mercury	55474-10-10 12:00 G	21982804.87	21982805.00	21982805.13	0.0089	0.0018
Mercury	55475-01-06 13:12 G	21982892.93	21982893.05	21982893.18	0.0089	0.0026
Mercury	55475-04-04 14:38 G	21982980.99	21982981.11	21982981.23	0.0089	0.0033
Mercury	55475-07-01 15:50 G	21983069.05	21983069.16	21983069.28	0.0089	0.0041
Mercury	55475-09-27 17:02 G	21983157.11	21983157.21	21983157.33	0.0089	0.0049
Mercury	55475-12-24 18:29 G	21983245.18	21983245.27	21983245.38	0.0089	0.0057
Mercury	55476-03-21 19:55 G	21983333.24	21983333.33	21983333.42	0.0089	0.0064
Mercury	55476-06-17 21:07 G	21983421.31	21983421.38	21983421.46	0.0089	0.0072
Mercury	55476-09-13 22:19 G	21983509.38	21983509.43	21983509.50	0.0089	0.0080
Mercury	55476-12-10 23:31 G	21983597.48	21983597.48	21983597.51	0.0089	0.0088
Earth	55483-03-08 08:24 G	21985875.83	21985875.85	21985875.90	0.0089	0.0088
Moon	55484-03-09 17:31 G	21986243.04	21986243.23	21986243.43	0.0089	0.0056
Earth	55484-03-09 20:38 G	21986243.18	21986243.36	21986243.57	0.0089	0.0058 *
Earth	55485-03-12 08:53 G	21986610.62	21986610.87	21986611.12	0.0089	0.0028
Moon	55485-03-12 11:46 G	21986610.75	21986610.99	21986611.25	0.0089	0.0030 *
Moon	55486-03-14 19:12 G	21986978.06	21986978.30	21986978.56	0.0089	0.0005
Earth	55486-03-14 20:53 G	21986978.11	21986978.37	21986978.63	0.0089	0.0002 *
Earth	55487-03-17 08:53 G	21987345.63	21987345.87	21987346.12	0.0089	0.0032
Moon	55487-03-17 09:36 G	21987345.66	21987345.90	21987346.17	0.0089	0.0031 *

Earth	55488-03-18 20:53 G	21987713.20	21987713.37	21987713.57	0.0089	0.0062
Moon	55488-03-18 21:07 G	21987713.22	21987713.38	21987713.57	0.0089	0.0064 *
Venus	55498-08-31 14:53 G	21991531.11	21991531.12	21991531.16	0.0088	0.0088
Venus	55499-04-14 03:22 G	21991756.58	21991756.64	21991756.75	0.0088	0.0082
Venus	55499-11-25 16:34 G	21991982.08	21991982.19	21991982.32	0.0088	0.0074
Venus	55500-07-09 05:02 G	21992207.60	21992207.71	21992207.88	0.0088	0.0068
Venus	55501-02-19 18:14 G	21992433.12	21992433.26	21992433.44	0.0088	0.0061
Venus	55501-10-03 07:12 G	21992658.64	21992658.80	21992658.99	0.0088	0.0054
Venus	55502-05-16 20:24 G	21992884.16	21992884.35	21992884.53	0.0088	0.0048
Venus	55502-12-28 08:53 G	21993109.69	21993109.87	21993110.08	0.0088	0.0041
Venus	55503-08-10 21:50 G	21993335.22	21993335.41	21993335.62	0.0088	0.0034
Venus	55504-03-23 10:48 G	21993560.75	21993560.95	21993561.17	0.0088	0.0027
Venus	55504-11-03 23:46 G	21993786.28	21993786.49	21993786.71	0.0088	0.0020
Venus	55505-06-17 12:29 G	21994011.81	21994012.02	21994012.25	0.0088	0.0014
Venus	55506-01-29 01:26 G	21994237.35	21994237.56	21994237.79	0.0088	0.0007
Venus	55506-09-11 14:24 G	21994462.88	21994463.10	21994463.32	0.0088	0.0000
Venus	55507-04-25 03:07 G	21994688.41	21994688.63	21994688.85	0.0088	0.0007
Venus	55507-12-06 15:36 G	21994913.94	21994914.15	21994914.38	0.0088	0.0014
Venus	55508-07-19 04:19 G	21995139.48	21995139.68	21995139.91	0.0088	0.0021
Venus	55509-03-01 17:31 G	21995365.02	21995365.23	21995365.44	0.0088	0.0027
Venus	55509-10-13 06:00 G	21995590.56	21995590.75	21995590.96	0.0088	0.0034
Venus	55510-05-26 18:29 G	21995816.09	21995816.27	21995816.49	0.0088	0.0041
Venus	55511-01-07 07:41 G	21996041.63	21996041.82	21996042.00	0.0088	0.0047
Venus	55511-08-20 20:10 G	21996267.18	21996267.34	21996267.52	0.0088	0.0054
Venus	55512-04-02 08:38 G	21996492.72	21996492.86	21996493.04	0.0088	0.0061
Venus	55512-11-13 21:36 G	21996718.27	21996718.40	21996718.55	0.0088	0.0067
Venus	55513-06-27 10:05 G	21996943.82	21996943.92	21996944.06	0.0088	0.0074
Venus	55514-02-07 23:17 G	21997169.39	21997169.47	21997169.56	0.0088	0.0080
Venus	55514-09-21 11:46 G	21997394.98	21997394.99	21997395.04	0.0088	0.0087
Mars	55523-10-20 04:34 G	22000710.40	22000710.69	22000710.98	0.0088	0.0001

Mercury	55555-10-21 13:55 G	22012400.03	22012400.08	22012400.16	0.0088	0.0082
Mercury	55556-01-17 17:17 G	22012488.13	22012488.22	22012488.35	0.0088	0.0072
Mercury	55556-04-14 20:53 G	22012576.25	22012576.37	22012576.52	0.0088	0.0060
Mercury	55556-07-12 00:29 G	22012664.37	22012664.52	22012664.69	0.0088	0.0049
Mercury	55556-10-08 03:50 G	22012752.50	22012752.66	22012752.85	0.0088	0.0039
Mercury	55557-01-04 07:26 G	22012840.64	22012840.81	22012841.00	0.0088	0.0027
Mercury	55557-04-02 11:02 G	22012928.78	22012928.96	22012929.16	0.0088	0.0016
Mercury	55557-06-29 14:38 G	22013016.92	22013017.11	22013017.31	0.0088	0.0005
Mercury	55557-09-25 18:14 G	22013105.07	22013105.26	22013105.45	0.0088	0.0006
Mercury	55557-12-22 21:50 G	22013193.22	22013193.41	22013193.60	0.0088	0.0018
Mercury	55558-03-21 01:12 G	22013281.37	22013281.55	22013281.74	0.0088	0.0029
Mercury	55558-06-17 04:34 G	22013369.53	22013369.69	22013369.88	0.0088	0.0040
Mercury	55558-09-13 08:10 G	22013457.69	22013457.84	22013458.01	0.0088	0.0051
Mercury	55558-12-10 11:46 G	22013545.86	22013545.99	22013546.14	0.0088	0.0063
Mercury	55559-03-08 15:22 G	22013634.04	22013634.14	22013634.25	0.0088	0.0074
Mercury	55559-06-04 18:29 G	22013722.25	22013722.27	22013722.35	0.0088	0.0086
Earth	55566-09-10 17:02 G	22016377.15	22016377.21	22016377.31	0.0089	0.0084
Moon	55566-09-10 19:41 G	22016377.22	22016377.32	22016377.45	0.0089	0.0079 *
Moon	55567-09-13 02:38 G	22016744.45	22016744.61	22016744.82	0.0089	0.0059
Earth	55567-09-13 04:48 G	22016744.50	22016744.70	22016744.90	0.0089	0.0054 *
Jupiter	55568-02-24 16:48 G	22016908.88	22016909.20	22016909.64	0.0089	0.0064
Earth	55568-09-14 15:36 G	22017111.92	22017112.15	22017112.41	0.0089	0.0025
Moon	55568-09-14 16:34 G	22017111.94	22017112.19	22017112.45	0.0089	0.0020 *
Earth	55569-09-17 03:07 G	22017479.38	22017479.63	22017479.89	0.0089	0.0006
Moon	55569-09-17 04:19 G	22017479.43	22017479.68	22017479.93	0.0089	0.0001 *
Moon	55570-09-19 12:14 G	22017846.79	22017847.01	22017847.26	0.0089	0.0040
Earth	55570-09-19 14:38 G	22017846.87	22017847.11	22017847.34	0.0089	0.0035 *
Earth	55571-09-22 01:26 G	22018214.39	22018214.56	22018214.74	0.0089	0.0065
Moon	55571-09-22 03:50 G	22018214.50	22018214.66	22018214.86	0.0089	0.0061 *
Venus	55582-01-10 18:43 G	22021978.25	22021978.28	22021978.37	0.0089	0.0086

Venus	55582-08-24 08:10 G	22022203.76	22022203.84	22022203.97	0.0089	0.0079
Venus	55583-04-06 21:36 G	22022429.28	22022429.40	22022429.54	0.0089	0.0071
Venus	55583-11-18 10:48 G	22022654.81	22022654.95	22022655.11	0.0089	0.0065
Venus	55584-07-01 00:14 G	22022880.35	22022880.51	22022880.68	0.0089	0.0058
Venus	55585-02-11 13:26 G	22023105.88	22023106.06	22023106.24	0.0089	0.0051
Venus	55585-09-25 02:38 G	22023331.42	22023331.61	22023331.81	0.0089	0.0044
Venus	55586-05-08 15:50 G	22023556.96	22023557.16	22023557.36	0.0089	0.0037
Venus	55586-12-20 05:02 G	22023782.50	22023782.71	22023782.92	0.0089	0.0030
Venus	55587-08-02 18:29 G	22024008.05	22024008.27	22024008.48	0.0089	0.0023
Venus	55588-03-15 07:41 G	22024233.60	22024233.82	22024234.03	0.0089	0.0016
Venus	55588-10-26 20:38 G	22024459.15	22024459.36	22024459.58	0.0089	0.0009
Venus	55589-06-09 09:50 G	22024684.69	22024684.91	22024685.13	0.0089	0.0002
Venus	55590-01-20 23:02 G	22024910.25	22024910.46	22024910.69	0.0089	0.0006
Venus	55590-09-03 12:29 G	22025135.81	22025136.02	22025136.24	0.0089	0.0013
Venus	55591-04-17 01:41 G	22025361.36	22025361.57	22025361.79	0.0089	0.0020
Venus	55591-11-28 14:53 G	22025586.92	22025587.12	22025587.34	0.0089	0.0027
Venus	55592-07-11 04:19 G	22025812.48	22025812.68	22025812.89	0.0089	0.0034
Venus	55593-02-21 17:31 G	22026038.04	22026038.23	22026038.43	0.0089	0.0041
Venus	55593-10-05 06:58 G	22026263.61	22026263.79	22026263.98	0.0089	0.0048
Venus	55594-05-18 20:10 G	22026489.18	22026489.34	22026489.52	0.0089	0.0055
Venus	55594-12-30 09:36 G	22026714.75	22026714.90	22026715.06	0.0090	0.0062
Venus	55595-08-12 22:48 G	22026940.33	22026940.45	22026940.60	0.0090	0.0069
Venus	55596-03-25 12:00 G	22027165.90	22027166.00	22027166.14	0.0090	0.0076
Venus	55596-11-06 01:12 G	22027391.49	22027391.55	22027391.66	0.0090	0.0083
Venus	55597-06-19 14:38 G	22027617.11	22027617.11	22027617.14	0.0090	0.0089
Mars	55605-08-26 01:55 G	22030606.30	22030606.58	22030606.93	0.0090	0.0036
Mercury	55636-05-19 18:14 G	22041831.21	22041831.26	22041831.31	0.0089	0.0082
Mercury	55636-08-15 19:12 G	22041919.24	22041919.30	22041919.39	0.0089	0.0074
Mercury	55636-11-11 20:53 G	22042007.28	22042007.37	22042007.46	0.0089	0.0066
Mercury	55637-02-07 22:05 G	22042095.33	22042095.42	22042095.53	0.0089	0.0058

Mercury	55637-05-06 23:31 G	22042183.37	22042183.48	22042183.60	0.0089	0.0050
Mercury	55637-08-03 00:43 G	22042271.42	22042271.53	22042271.66	0.0089	0.0042
Mercury	55637-10-30 02:10 G	22042359.47	22042359.59	22042359.72	0.0089	0.0034
Mercury	55638-01-26 03:36 G	22042447.53	22042447.65	22042447.78	0.0089	0.0026
Mercury	55638-04-24 05:02 G	22042535.58	22042535.71	22042535.84	0.0089	0.0018
Mercury	55638-07-21 06:29 G	22042623.63	22042623.77	22042623.90	0.0089	0.0010
Mercury	55638-10-17 07:41 G	22042711.69	22042711.82	22042711.96	0.0089	0.0003
Mercury	55639-01-13 09:07 G	22042799.75	22042799.88	22042800.01	0.0089	0.0006
Mercury	55639-04-11 10:19 G	22042887.80	22042887.93	22042888.07	0.0089	0.0014
Mercury	55639-07-08 11:46 G	22042975.86	22042975.99	22042976.12	0.0089	0.0021
Mercury	55639-10-04 12:58 G	22043063.92	22043064.04	22043064.17	0.0089	0.0029
Mercury	55639-12-31 14:10 G	22043151.98	22043152.09	22043152.22	0.0089	0.0037
Mercury	55640-03-28 15:36 G	22043240.04	22043240.15	22043240.27	0.0089	0.0045
Mercury	55640-06-24 17:02 G	22043328.10	22043328.21	22043328.32	0.0089	0.0052
Mercury	55640-09-20 18:14 G	22043416.17	22043416.26	22043416.36	0.0089	0.0060
Mercury	55640-12-17 19:26 G	22043504.24	22043504.31	22043504.40	0.0089	0.0068
Mercury	55641-03-15 20:38 G	22043592.31	22043592.36	22043592.44	0.0089	0.0076
Mercury	55641-06-11 22:05 G	22043680.39	22043680.42	22043680.47	0.0089	0.0083
Earth	55648-03-10 05:02 G	22046143.59	22046143.71	22046143.88	0.0089	0.0073
Moon	55648-03-10 07:55 G	22046143.70	22046143.83	22046143.97	0.0089	0.0076 *
Moon	55649-03-12 16:05 G	22046510.95	22046511.17	22046511.40	0.0089	0.0039
Earth	55649-03-12 17:31 G	22046511.02	22046511.23	22046511.47	0.0089	0.0043 *
Moon	55650-03-15 05:17 G	22046878.47	22046878.72	22046879.00	0.0089	0.0017
Earth	55650-03-15 05:46 G	22046878.48	22046878.74	22046879.00	0.0089	0.0013 *
Earth	55651-03-17 17:31 G	22047245.99	22047246.23	22047246.50	0.0089	0.0018
Moon	55651-03-17 18:58 G	22047246.05	22047246.29	22047246.54	0.0089	0.0021 *
Moon	55652-03-19 03:50 G	22047613.43	22047613.66	22047613.90	0.0089	0.0043
Earth	55652-03-19 05:31 G	22047613.53	22047613.73	22047613.97	0.0089	0.0048 *
Earth	55653-03-21 17:46 G	22047981.12	22047981.24	22047981.37	0.0089	0.0077
Moon	55653-03-21 21:07 G	22047981.28	22047981.38	22047981.48	0.0089	0.0081 *



Venus	55662-12-04 01:55 G	22051525.55	22051525.58	22051525.64	0.0088	0.0086
Venus	55663-07-17 14:24 G	22051751.04	22051751.10	22051751.22	0.0088	0.0081
Venus	55664-02-28 03:36 G	22051976.55	22051976.65	22051976.79	0.0088	0.0074
Venus	55664-10-10 16:19 G	22052202.06	22052202.18	22052202.35	0.0088	0.0067
Venus	55665-05-24 05:17 G	22052427.58	22052427.72	22052427.90	0.0088	0.0060
Venus	55666-01-04 18:14 G	22052653.10	22052653.26	22052653.45	0.0088	0.0054
Venus	55666-08-18 06:58 G	22052878.62	22052878.79	22052878.99	0.0088	0.0047
Venus	55667-03-31 19:55 G	22053104.14	22053104.33	22053104.54	0.0088	0.0040
Venus	55667-11-12 08:53 G	22053329.67	22053329.87	22053330.08	0.0088	0.0033
Venus	55668-06-24 21:22 G	22053555.20	22053555.39	22053555.62	0.0088	0.0028
Venus	55669-02-05 10:34 G	22053780.73	22053780.94	22053781.16	0.0088	0.0020
Venus	55669-09-18 23:31 G	22054006.27	22054006.48	22054006.70	0.0088	0.0013
Venus	55670-05-02 12:14 G	22054231.80	22054232.01	22054232.24	0.0088	0.0007
Venus	55670-12-14 01:12 G	22054457.33	22054457.55	22054457.77	0.0088	0.0001
Venus	55671-07-27 13:55 G	22054682.86	22054683.08	22054683.30	0.0088	0.0007
Venus	55672-03-09 02:53 G	22054908.40	22054908.62	22054908.84	0.0088	0.0014
Venus	55672-10-20 15:22 G	22055133.94	22055134.14	22055134.37	0.0088	0.0021
Venus	55673-06-03 04:19 G	22055359.48	22055359.68	22055359.90	0.0088	0.0027
Venus	55674-01-14 17:02 G	22055585.01	22055585.21	22055585.42	0.0088	0.0034
Venus	55674-08-28 05:31 G	22055810.55	22055810.73	22055810.94	0.0088	0.0041
Venus	55675-04-10 18:29 G	22056036.09	22056036.27	22056036.46	0.0088	0.0047
Venus	55675-11-22 06:58 G	22056261.63	22056261.79	22056261.98	0.0088	0.0054
Venus	55676-07-04 19:55 G	22056487.18	22056487.33	22056487.50	0.0088	0.0060
Venus	55677-02-15 08:24 G	22056712.73	22056712.85	22056713.01	0.0088	0.0067
Venus	55677-09-28 21:22 G	22056938.28	22056938.39	22056938.52	0.0088	0.0073
Venus	55678-05-12 09:50 G	22057163.84	22057163.91	22057164.02	0.0088	0.0080
Venus	55678-12-23 22:34 G	22057389.41	22057389.44	22057389.50	0.0088	0.0086
Mars	55687-06-04 19:12 G	22060474.07	22060474.30	22060474.57	0.0088	0.0046
Mars	55689-04-28 08:38 G	22061167.71	22061167.86	22061168.07	0.0088	0.0069
Mercury	55720-04-21 09:22 G	22072482.88	22072482.89	22072482.91	0.0088	0.0088

Mercury	55720-07-18 12:58 G	22072570.95	22072571.04	22072571.13	0.0088	0.0077
Mercury	55720-10-14 15:50 G	22072659.06	22072659.16	22072659.31	0.0088	0.0066
Mercury	55721-01-10 19:26 G	22072747.18	22072747.31	22072747.48	0.0088	0.0055
Mercury	55721-04-08 23:02 G	22072835.30	22072835.46	22072835.64	0.0088	0.0044
Mercury	55721-07-06 02:24 G	22072923.44	22072923.60	22072923.80	0.0088	0.0034
Mercury	55721-10-02 06:14 G	22073011.58	22073011.76	22073011.95	0.0088	0.0022
Mercury	55721-12-29 09:50 G	22073099.72	22073099.91	22073100.10	0.0088	0.0011
Mercury	55722-03-27 13:12 G	22073187.86	22073188.05	22073188.25	0.0088	0.0002
Mercury	55722-06-23 16:48 G	22073276.01	22073276.20	22073276.39	0.0088	0.0012
Mercury	55722-09-19 20:10 G	22073364.16	22073364.34	22073364.54	0.0088	0.0023
Mercury	55722-12-16 23:46 G	22073452.32	22073452.49	22073452.68	0.0088	0.0034
Mercury	55723-03-15 03:22 G	22073540.48	22073540.64	22073540.81	0.0088	0.0045
Mercury	55723-06-11 06:58 G	22073628.65	22073628.79	22073628.94	0.0088	0.0057
Mercury	55723-09-07 10:05 G	22073716.82	22073716.92	22073717.07	0.0088	0.0069
Mercury	55723-12-04 13:41 G	22073805.01	22073805.07	22073805.18	0.0088	0.0080
Moon	55731-09-13 14:53 G	22076644.96	22076645.12	22076645.30	0.0089	0.0068
Earth	55731-09-13 14:38 G	22076644.98	22076645.11	22076645.30	0.0089	0.0069 *
Earth	55732-09-15 02:10 G	22077012.38	22077012.59	22077012.84	0.0089	0.0039
Moon	55732-09-15 03:07 G	22077012.43	22077012.63	22077012.87	0.0089	0.0040 *
Moon	55733-09-17 11:02 G	22077379.71	22077379.96	22077380.23	0.0089	0.0009
Earth	55733-09-17 13:55 G	22077379.82	22077380.08	22077380.34	0.0089	0.0009 *
Jupiter	55734-04-30 02:53 G	22077604.15	22077604.62	22077605.16	0.0089	0.0034
Earth	55734-09-20 00:58 G	22077747.30	22077747.54	22077747.79	0.0089	0.0021
Moon	55734-09-20 04:05 G	22077747.43	22077747.67	22077747.92	0.0089	0.0021 *
Moon	55735-09-22 08:38 G	22078114.66	22078114.86	22078115.08	0.0089	0.0052
Earth	55735-09-22 12:00 G	22078114.81	22078115.00	22078115.23	0.0089	0.0051 *
Earth	55736-09-23 23:02 G	22078482.38	22078482.46	22078482.59	0.0089	0.0081
Moon	55736-09-24 02:38 G	22078482.52	22078482.61	22078482.74	0.0089	0.0080 *
Venus	55746-04-15 05:46 G	22081972.69	22081972.74	22081972.84	0.0089	0.0084
Venus	55746-11-26 18:58 G	22082198.20	22082198.29	22082198.42	0.0089	0.0078

Venus	55747-07-10 08:24 G	22082423.73	22082423.85	22082424.00	0.0089	0.0071
Venus	55748-02-20 21:50 G	22082649.27	22082649.41	22082649.57	0.0089	0.0064
Venus	55748-10-03 11:17 G	22082874.80	22082874.97	22082875.14	0.0089	0.0057
Venus	55749-05-17 00:00 G	22083100.34	22083100.50	22083100.70	0.0089	0.0050
Venus	55749-12-28 13:12 G	22083325.87	22083326.05	22083326.26	0.0089	0.0044
Venus	55750-08-11 02:38 G	22083551.42	22083551.61	22083551.82	0.0089	0.0036
Venus	55751-03-24 15:50 G	22083776.96	22083777.16	22083777.38	0.0089	0.0030
Venus	55751-11-05 05:02 G	22084002.51	22084002.71	22084002.93	0.0089	0.0023
Venus	55752-06-17 18:14 G	22084228.05	22084228.26	22084228.49	0.0089	0.0016
Venus	55753-01-29 07:41 G	22084453.60	22084453.82	22084454.04	0.0089	0.0008
Venus	55753-09-11 20:53 G	22084679.15	22084679.37	22084679.59	0.0089	0.0002
Venus	55754-04-25 10:05 G	22084904.70	22084904.92	22084905.14	0.0089	0.0006
Venus	55754-12-06 23:17 G	22085130.26	22085130.47	22085130.69	0.0089	0.0013
Venus	55755-07-20 12:29 G	22085355.81	22085356.02	22085356.24	0.0089	0.0020
Venus	55756-03-02 01:41 G	22085581.37	22085581.57	22085581.79	0.0089	0.0027
Venus	55756-10-13 15:07 G	22085806.93	22085807.13	22085807.34	0.0089	0.0034
Venus	55757-05-27 04:19 G	22086032.49	22086032.68	22086032.88	0.0089	0.0041
Venus	55758-01-07 17:31 G	22086258.05	22086258.23	22086258.43	0.0089	0.0048
Venus	55758-08-21 06:58 G	22086483.63	22086483.79	22086483.97	0.0089	0.0055
Venus	55759-04-03 20:10 G	22086709.20	22086709.34	22086709.52	0.0089	0.0062
Venus	55759-11-15 09:22 G	22086934.77	22086934.89	22086935.05	0.0089	0.0069
Venus	55760-06-27 23:17 G	22087160.35	22087160.47	22087160.58	0.0090	0.0075
Venus	55761-02-08 12:14 G	22087385.94	22087386.01	22087386.11	0.0090	0.0082
Venus	55761-09-22 01:41 G	22087611.56	22087611.57	22087611.61	0.0090	0.0089
Mars	55771-03-06 23:17 G	22091064.23	22091064.47	22091064.78	0.0090	0.0053
Mercury	55800-11-19 16:34 G	22101914.16	22101914.19	22101914.23	0.0089	0.0085
Mercury	55801-02-15 18:00 G	22102002.19	22102002.25	22102002.32	0.0089	0.0077
Mercury	55801-05-14 19:26 G	22102090.23	22102090.31	22102090.39	0.0089	0.0069
Mercury	55801-08-10 20:53 G	22102178.27	22102178.37	22102178.46	0.0089	0.0062
Mercury	55801-11-06 22:05 G	22102266.32	22102266.42	22102266.53	0.0089	0.0054

Mercury	55802-02-02 23:31 G	22102354.37	22102354.48	22102354.59	0.0089	0.0046
Mercury	55802-05-02 00:43 G	22102442.42	22102442.53	22102442.66	0.0089	0.0038
Mercury	55802-07-29 02:10 G	22102530.47	22102530.59	22102530.72	0.0089	0.0030
Mercury	55802-10-25 03:36 G	22102618.52	22102618.65	22102618.78	0.0089	0.0022
Mercury	55803-01-21 04:48 G	22102706.57	22102706.70	22102706.84	0.0089	0.0014
Mercury	55803-04-19 06:14 G	22102794.63	22102794.76	22102794.90	0.0089	0.0006
Mercury	55803-07-16 07:41 G	22102882.69	22102882.82	22102882.95	0.0089	0.0002
Mercury	55803-10-12 08:53 G	22102970.74	22102970.87	22102971.01	0.0089	0.0010
Mercury	55804-01-08 10:19 G	22103058.80	22103058.93	22103059.06	0.0089	0.0017
Mercury	55804-04-05 11:31 G	22103146.86	22103146.98	22103147.11	0.0089	0.0026
Mercury	55804-07-02 12:58 G	22103234.92	22103235.04	22103235.16	0.0089	0.0033
Mercury	55804-09-28 14:10 G	22103322.98	22103323.09	22103323.21	0.0089	0.0041
Mercury	55804-12-25 15:22 G	22103411.04	22103411.14	22103411.26	0.0089	0.0049
Mercury	55805-03-23 16:34 G	22103499.10	22103499.19	22103499.31	0.0089	0.0057
Mercury	55805-06-19 18:00 G	22103587.17	22103587.25	22103587.35	0.0089	0.0064
Mercury	55805-09-15 19:26 G	22103675.24	22103675.31	22103675.39	0.0089	0.0072
Mercury	55805-12-12 20:38 G	22103763.31	22103763.36	22103763.43	0.0089	0.0080
Mercury	55806-03-10 22:05 G	22103851.40	22103851.42	22103851.44	0.0089	0.0087
Earth	55812-03-11 15:07 G	22106044.09	22106044.13	22106044.18	0.0089	0.0087
Moon	55813-03-14 02:10 G	22106411.41	22106411.59	22106411.83	0.0089	0.0055
Earth	55813-03-14 02:38 G	22106411.44	22106411.61	22106411.83	0.0089	0.0058 *
Earth	55814-03-16 14:53 G	22106778.89	22106779.12	22106779.38	0.0089	0.0028
Moon	55814-03-16 17:02 G	22106778.98	22106779.21	22106779.45	0.0089	0.0031 *
Moon	55815-03-19 00:29 G	22107146.26	22107146.52	22107146.79	0.0089	0.0006
Earth	55815-03-19 03:22 G	22107146.39	22107146.64	22107146.90	0.0089	0.0003 *
Earth	55816-03-20 15:07 G	22107513.90	22107514.13	22107514.38	0.0089	0.0033
Moon	55816-03-20 18:00 G	22107514.03	22107514.25	22107514.51	0.0089	0.0031 *
Moon	55817-03-22 23:31 G	22107881.31	22107881.48	22107881.66	0.0089	0.0066
Earth	55817-03-23 03:07 G	22107881.46	22107881.63	22107881.83	0.0089	0.0063 *
Venus	55827-03-09 12:58 G	22111520.01	22111520.04	22111520.12	0.0088	0.0085

Venus	55827-10-21 02:10 G	22111745.50	22111745.59	22111745.69	0.0088	0.0079
Venus	55828-06-02 14:53 G	22111971.01	22111971.12	22111971.26	0.0088	0.0072
Venus	55829-01-14 04:05 G	22112196.53	22112196.67	22112196.82	0.0088	0.0066
Venus	55829-08-27 16:34 G	22112422.04	22112422.19	22112422.37	0.0088	0.0059
Venus	55830-04-10 05:46 G	22112647.56	22112647.74	22112647.91	0.0088	0.0053
Venus	55830-11-21 18:14 G	22112873.08	22112873.26	22112873.46	0.0088	0.0046
Venus	55831-07-05 07:12 G	22113098.61	22113098.80	22113099.00	0.0088	0.0039
Venus	55832-02-15 19:55 G	22113324.14	22113324.33	22113324.55	0.0088	0.0033
Venus	55832-09-28 08:53 G	22113549.67	22113549.87	22113550.09	0.0088	0.0026
Venus	55833-05-11 21:50 G	22113775.20	22113775.41	22113775.63	0.0088	0.0019
Venus	55833-12-23 10:34 G	22114000.73	22114000.94	22114001.16	0.0088	0.0013
Venus	55834-08-05 23:31 G	22114226.26	22114226.48	22114226.70	0.0088	0.0006
Venus	55835-03-19 12:29 G	22114451.80	22114452.02	22114452.24	0.0088	0.0001
Venus	55835-10-31 01:12 G	22114677.33	22114677.55	22114677.77	0.0088	0.0008
Venus	55836-06-12 14:10 G	22114902.87	22114903.09	22114903.31	0.0088	0.0014
Venus	55837-01-24 02:53 G	22115128.41	22115128.62	22115128.84	0.0088	0.0021
Venus	55837-09-06 15:36 G	22115353.95	22115354.15	22115354.37	0.0088	0.0028
Venus	55838-04-20 04:19 G	22115579.49	22115579.68	22115579.89	0.0088	0.0034
Venus	55838-12-01 17:02 G	22115805.03	22115805.21	22115805.42	0.0088	0.0041
Venus	55839-07-15 06:00 G	22116030.57	22116030.75	22116030.94	0.0088	0.0047
Venus	55840-02-25 18:43 G	22116256.12	22116256.28	22116256.47	0.0088	0.0054
Venus	55840-10-08 07:41 G	22116481.66	22116481.82	22116481.98	0.0088	0.0060
Venus	55841-05-21 19:55 G	22116707.21	22116707.33	22116707.49	0.0088	0.0067
Venus	55842-01-02 08:53 G	22116932.76	22116932.87	22116933.00	0.0088	0.0073
Venus	55842-08-15 21:07 G	22117158.32	22117158.38	22117158.50	0.0088	0.0080
Venus	55843-03-29 10:05 G	22117383.90	22117383.92	22117383.99	0.0088	0.0086
Mars	55852-12-14 01:12 G	22120931.27	22120931.55	22120931.83	0.0088	0.0024
Mercury	55885-01-17 07:41 G	22132653.78	22132653.82	22132653.91	0.0088	0.0083
Mercury	55885-04-15 11:17 G	22132741.87	22132741.97	22132742.10	0.0088	0.0071
Mercury	55885-07-12 14:38 G	22132829.99	22132830.11	22132830.27	0.0088	0.0061

Mercury	55885-10-08 18:14 G	22132918.12	22132918.26	22132918.43	0.0088	0.0050
Mercury	55886-01-04 21:50 G	22133006.25	22133006.41	22133006.59	0.0088	0.0038
Mercury	55886-04-03 01:26 G	22133094.38	22133094.56	22133094.75	0.0088	0.0027
Mercury	55886-06-30 04:48 G	22133182.52	22133182.70	22133182.90	0.0088	0.0017
Mercury	55886-09-26 08:24 G	22133270.66	22133270.85	22133271.05	0.0088	0.0006
Mercury	55886-12-23 12:00 G	22133358.81	22133359.00	22133359.20	0.0088	0.0006
Mercury	55887-03-21 15:36 G	22133446.96	22133447.15	22133447.34	0.0088	0.0017
Mercury	55887-06-17 18:58 G	22133535.11	22133535.29	22133535.48	0.0088	0.0029
Mercury	55887-09-13 22:19 G	22133623.27	22133623.43	22133623.62	0.0088	0.0040
Mercury	55887-12-11 01:55 G	22133711.43	22133711.58	22133711.75	0.0088	0.0051
Mercury	55888-03-08 05:31 G	22133799.60	22133799.73	22133799.88	0.0088	0.0062
Mercury	55888-06-04 09:07 G	22133887.78	22133887.88	22133887.99	0.0088	0.0074
Mercury	55888-08-31 12:58 G	22133975.99	22133976.04	22133976.09	0.0088	0.0085
Earth	55895-09-14 01:26 G	22136545.49	22136545.56	22136545.67	0.0089	0.0083
Moon	55895-09-14 03:22 G	22136545.55	22136545.64	22136545.78	0.0089	0.0079 *
Moon	55896-09-15 10:05 G	22136912.74	22136912.92	22136913.14	0.0089	0.0058
Earth	55896-09-15 12:58 G	22136912.85	22136913.04	22136913.26	0.0089	0.0053 *
Earth	55897-09-18 00:14 G	22137280.26	22137280.51	22137280.76	0.0089	0.0023
Moon	55897-09-18 03:50 G	22137280.41	22137280.66	22137280.91	0.0089	0.0018 *
Moon	55898-09-20 08:10 G	22137647.59	22137647.84	22137648.10	0.0089	0.0002
Earth	55898-09-20 11:31 G	22137647.73	22137647.98	22137648.24	0.0089	0.0007 *
Earth	55899-09-22 22:34 G	22138015.22	22138015.44	22138015.68	0.0089	0.0037
Moon	55899-09-23 01:41 G	22138015.36	22138015.57	22138015.82	0.0089	0.0042 *
Moon	55900-09-25 07:12 G	22138382.64	22138382.80	22138383.00	0.0089	0.0062
Earth	55900-09-25 09:50 G	22138382.76	22138382.91	22138383.09	0.0089	0.0067 *
Venus	55909-12-06 04:19 G	22141741.68	22141741.68	22141741.68	0.0089	0.0089
Venus	55910-07-19 17:31 G	22141967.16	22141967.23	22141967.32	0.0089	0.0083
Venus	55911-03-02 06:29 G	22142192.67	22142192.77	22142192.90	0.0089	0.0076
Venus	55911-10-13 19:41 G	22142418.20	22142418.32	22142418.47	0.0089	0.0070
Venus	55912-05-26 09:07 G	22142643.73	22142643.88	22142644.04	0.0089	0.0063

Venus	55913-01-06 21:50 G	22142869.26	22142869.41	22142869.61	0.0089	0.0057
Venus	55913-08-20 11:17 G	22143094.81	22143094.97	22143095.17	0.0089	0.0050
Venus	55914-04-03 00:43 G	22143320.35	22143320.53	22143320.74	0.0089	0.0042
Venus	55914-11-14 13:55 G	22143545.89	22143546.08	22143546.29	0.0089	0.0036
Venus	55915-06-28 03:22 G	22143771.43	22143771.64	22143771.85	0.0089	0.0028
Venus	55916-02-08 16:34 G	22143996.98	22143997.19	22143997.41	0.0089	0.0022
Venus	55916-09-21 06:00 G	22144222.53	22144222.75	22144222.96	0.0089	0.0015
Venus	55917-05-04 19:12 G	22144448.08	22144448.30	22144448.52	0.0089	0.0008
Venus	55917-12-16 08:24 G	22144673.63	22144673.85	22144674.07	0.0089	0.0002
Venus	55918-07-29 21:36 G	22144899.18	22144899.40	22144899.62	0.0089	0.0006
Venus	55919-03-12 10:34 G	22145124.73	22145124.94	22145125.17	0.0089	0.0014
Venus	55919-10-24 00:00 G	22145350.29	22145350.50	22145350.72	0.0089	0.0020
Venus	55920-06-05 13:12 G	22145575.84	22145576.05	22145576.26	0.0089	0.0027
Venus	55921-01-17 02:10 G	22145801.40	22145801.59	22145801.80	0.0089	0.0034
Venus	55921-08-30 15:36 G	22146026.96	22146027.15	22146027.35	0.0089	0.0041
Venus	55922-04-13 04:48 G	22146252.52	22146252.70	22146252.90	0.0089	0.0048
Venus	55922-11-24 17:46 G	22146478.09	22146478.24	22146478.43	0.0089	0.0055
Venus	55923-07-08 06:58 G	22146703.65	22146703.79	22146703.97	0.0089	0.0062
Venus	55924-02-18 20:38 G	22146929.23	22146929.36	22146929.51	0.0090	0.0068
Venus	55924-10-01 09:50 G	22147154.81	22147154.91	22147155.05	0.0090	0.0075
Venus	55925-05-14 23:02 G	22147380.39	22147380.46	22147380.57	0.0090	0.0082
Venus	55925-12-26 12:43 G	22147606.00	22147606.03	22147606.07	0.0090	0.0088
Mars	55934-10-20 09:22 G	22150825.55	22150825.89	22150826.24	0.0090	0.0006
Mercury	55965-08-17 16:19 G	22162085.14	22162085.18	22162085.24	0.0089	0.0082
Mercury	55965-11-13 17:46 G	22162173.17	22162173.24	22162173.32	0.0089	0.0073
Mercury	55966-02-09 19:12 G	22162261.21	22162261.30	22162261.39	0.0089	0.0065
Mercury	55966-05-08 20:38 G	22162349.26	22162349.36	22162349.46	0.0089	0.0057
Mercury	55966-08-04 22:05 G	22162437.31	22162437.42	22162437.53	0.0089	0.0050
Mercury	55966-10-31 23:17 G	22162525.36	22162525.47	22162525.59	0.0089	0.0042
Mercury	55967-01-28 00:29 G	22162613.41	22162613.52	22162613.65	0.0089	0.0034

Mercury	55967-04-26 01:55 G	22162701.46	22162701.58	22162701.72	0.0089	0.0026
Mercury	55967-07-23 03:22 G	22162789.51	22162789.64	22162789.78	0.0089	0.0018
Mercury	55967-10-19 04:48 G	22162877.57	22162877.70	22162877.83	0.0089	0.0010
Mercury	55968-01-15 06:14 G	22162965.62	22162965.76	22162965.89	0.0089	0.0003
Mercury	55968-04-12 07:26 G	22163053.68	22163053.81	22163053.95	0.0089	0.0006
Mercury	55968-07-09 08:53 G	22163141.74	22163141.87	22163142.00	0.0089	0.0014
Mercury	55968-10-05 10:05 G	22163229.80	22163229.92	22163230.05	0.0089	0.0022
Mercury	55969-01-01 11:31 G	22163317.85	22163317.98	22163318.11	0.0089	0.0029
Mercury	55969-03-30 12:43 G	22163405.91	22163406.03	22163406.16	0.0089	0.0037
Mercury	55969-06-26 13:55 G	22163493.98	22163494.08	22163494.20	0.0089	0.0045
Mercury	55969-09-22 15:22 G	22163582.04	22163582.14	22163582.25	0.0089	0.0053
Mercury	55969-12-19 16:34 G	22163670.10	22163670.19	22163670.30	0.0089	0.0061
Mercury	55970-03-17 18:00 G	22163758.17	22163758.25	22163758.34	0.0089	0.0068
Mercury	55970-06-13 19:12 G	22163846.24	22163846.30	22163846.38	0.0089	0.0076
Mercury	55970-09-09 20:24 G	22163934.32	22163934.35	22163934.41	0.0089	0.0084
Earth	55977-03-14 12:14 G	22166311.89	22166312.01	22166312.19	0.0089	0.0072
Moon	55977-03-14 14:10 G	22166311.99	22166312.09	22166312.26	0.0089	0.0075 *
Moon	55978-03-16 21:36 G	22166679.18	22166679.40	22166679.65	0.0089	0.0039
Earth	55978-03-17 00:43 G	22166679.32	22166679.53	22166679.78	0.0089	0.0042 *
Earth	55979-03-19 12:58 G	22167046.80	22167047.04	22167047.31	0.0089	0.0012
Moon	55979-03-19 16:48 G	22167046.95	22167047.20	22167047.46	0.0089	0.0014 *
Moon	55980-03-20 21:36 G	22167414.17	22167414.40	22167414.67	0.0089	0.0023
Earth	55980-03-21 01:26 G	22167414.31	22167414.56	22167414.82	0.0089	0.0019 *
Earth	55981-03-23 13:12 G	22167781.85	22167782.05	22167782.28	0.0089	0.0049
Moon	55981-03-23 16:19 G	22167781.98	22167782.18	22167782.43	0.0089	0.0046 *
Moon	55982-03-25 23:17 G	22168149.39	22168149.47	22168149.57	0.0089	0.0082
Earth	55982-03-26 01:12 G	22168149.45	22168149.55	22168149.68	0.0089	0.0079 *
Venus	55991-06-12 00:14 G	22171514.47	22171514.51	22171514.60	0.0088	0.0084
Venus	55992-01-23 13:26 G	22171739.97	22171740.06	22171740.18	0.0088	0.0078
Venus	55992-09-05 02:10 G	22171965.49	22171965.59	22171965.74	0.0088	0.0072



Venus	55993-04-18 15:22 G	22172191.00	22172191.14	22172191.30	0.0088	0.0065
Venus	55993-11-30 03:50 G	22172416.52	22172416.66	22172416.85	0.0088	0.0059
Venus	55994-07-13 17:02 G	22172642.04	22172642.21	22172642.40	0.0088	0.0052
Venus	55995-02-24 05:46 G	22172867.57	22172867.74	22172867.95	0.0088	0.0045
Venus	55995-10-07 18:58 G	22173093.09	22173093.29	22173093.49	0.0088	0.0038
Venus	55996-05-20 07:26 G	22173318.62	22173318.81	22173319.03	0.0088	0.0032
Venus	55996-12-31 20:24 G	22173544.14	22173544.35	22173544.57	0.0088	0.0025
Venus	55997-08-14 09:07 G	22173769.67	22173769.88	22173770.10	0.0088	0.0019
Venus	55998-03-27 22:05 G	22173995.21	22173995.42	22173995.64	0.0088	0.0012
Venus	55998-11-08 10:48 G	22174220.74	22174220.95	22174221.18	0.0088	0.0006
Venus	55999-06-21 23:46 G	22174446.27	22174446.49	22174446.71	0.0088	0.0001
Venus	56000-02-02 12:29 G	22174671.81	22174672.02	22174672.25	0.0088	0.0008
Venus	56000-09-15 01:26 G	22174897.34	22174897.56	22174897.78	0.0088	0.0014

# 57TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 57th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	56001-04-28 14:10 G		22175122.88	22175123.09	22175123.31	0.0088	0.0021	
Venus	56001-12-10 02:38 G		22175348.41	22175348.61	22175348.83	0.0088	0.0028	
Venus	56002-07-23 15:36 G		22175573.96	22175574.15	22175574.36	0.0088	0.0034	
Venus	56003-03-06 04:19 G		22175799.50	22175799.68	22175799.89	0.0088	0.0041	
Venus	56003-10-17 17:31 G		22176025.05	22176025.23	22176025.42	0.0088	0.0047	

Venus	56004-05-30 06:00 G	22176250.59	22176250.75	22176250.94	0.0088	0.0054
Venus	56005-01-10 18:58 G	22176476.14	22176476.29	22176476.45	0.0088	0.0060
Venus	56005-08-24 07:12 G	22176701.68	22176701.80	22176701.97	0.0088	0.0067
Venus	56006-04-06 20:24 G	22176927.24	22176927.35	22176927.48	0.0088	0.0073
Venus	56006-11-18 09:22 G	22177152.80	22177152.89	22177152.98	0.0088	0.0079
Venus	56007-07-01 21:22 G	22177378.37	22177378.39	22177378.47	0.0088	0.0086
Mars	56016-07-30 19:26 G	22180695.04	22180695.31	22180695.61	0.0088	0.0021
Mercury	56049-07-19 03:36 G	22192736.62	22192736.65	22192736.69	0.0088	0.0087
Mercury	56049-10-15 07:12 G	22192824.70	22192824.80	22192824.89	0.0088	0.0076
Mercury	56050-01-11 10:05 G	22192912.81	22192912.92	22192913.07	0.0088	0.0066
Mercury	56050-04-09 13:41 G	22193000.93	22193001.07	22193001.24	0.0088	0.0054
Mercury	56050-07-06 17:02 G	22193089.06	22193089.21	22193089.40	0.0088	0.0044
Mercury	56050-10-02 20:38 G	22193177.19	22193177.36	22193177.55	0.0088	0.0033
Mercury	56050-12-30 00:14 G	22193265.33	22193265.51	22193265.71	0.0088	0.0021
Mercury	56051-03-28 03:50 G	22193353.47	22193353.66	22193353.86	0.0088	0.0010
Mercury	56051-06-24 07:26 G	22193441.62	22193441.81	22193442.00	0.0088	0.0001
Mercury	56051-09-20 10:48 G	22193529.77	22193529.95	22193530.15	0.0088	0.0013
Mercury	56051-12-17 14:24 G	22193617.92	22193618.10	22193618.29	0.0088	0.0024
Mercury	56052-03-14 18:00 G	22193706.07	22193706.25	22193706.43	0.0088	0.0035
Mercury	56052-06-10 21:07 G	22193794.23	22193794.38	22193794.56	0.0088	0.0047
Mercury	56052-09-07 00:43 G	22193882.40	22193882.53	22193882.69	0.0088	0.0058
Mercury	56052-12-04 04:19 G	22193970.57	22193970.68	22193970.81	0.0088	0.0069
Mercury	56053-03-02 08:10 G	22194058.76	22194058.84	22194058.92	0.0088	0.0080
Earth	56060-09-16 00:00 G	22196813.35	22196813.50	22196813.69	0.0089	0.0067
Moon	56060-09-16 03:07 G	22196813.50	22196813.63	22196813.82	0.0089	0.0068 *
Moon	56061-09-18 07:26 G	22197180.60	22197180.81	22197181.07	0.0089	0.0037
Earth	56061-09-18 11:31 G	22197180.75	22197180.98	22197181.22	0.0089	0.0037 *
Earth	56062-09-20 22:34 G	22197548.19	22197548.44	22197548.70	0.0089	0.0007
Moon	56062-09-21 01:41 G	22197548.30	22197548.57	22197548.83	0.0089	0.0008 *
Moon	56063-09-23 07:41 G	22197915.58	22197915.82	22197916.06	0.0089	0.0023

Earth	56063-09-23 09:50 G	22197915.67	22197915.91	22197916.16	0.0089	0.0023	*
Earth	56064-09-24 20:38 G	22198283.18	22198283.36	22198283.59	0.0089	0.0053	
Moon	56064-09-24 21:50 G	22198283.22	22198283.41	22198283.65	0.0089	0.0053	*
Earth	56065-09-27 07:41 G	22198650.76	22198650.82	22198650.94	0.0089	0.0083	
Moon	56065-09-27 08:10 G	22198650.79	22198650.84	22198650.95	0.0089	0.0084	*
Venus	56074-03-09 15:22 G	22201736.13	22201736.14	22201736.19	0.0089	0.0088	
Venus	56074-10-21 04:34 G	22201961.62	22201961.69	22201961.79	0.0089	0.0082	
Venus	56075-06-03 17:31 G	22202187.13	22202187.23	22202187.37	0.0089	0.0075	
Venus	56076-01-15 06:58 G	22202412.66	22202412.79	22202412.94	0.0089	0.0068	
Venus	56076-08-27 20:24 G	22202638.20	22202638.35	22202638.51	0.0089	0.0062	
Venus	56077-04-10 09:07 G	22202863.73	22202863.88	22202864.07	0.0089	0.0056	
Venus	56077-11-21 22:34 G	22203089.27	22203089.44	22203089.64	0.0089	0.0048	
Venus	56078-07-05 12:00 G	22203314.81	22203315.00	22203315.20	0.0089	0.0041	
Venus	56079-02-16 01:12 G	22203540.35	22203540.55	22203540.76	0.0089	0.0035	
Venus	56079-09-29 14:38 G	22203765.90	22203766.11	22203766.32	0.0089	0.0028	
Venus	56080-05-12 03:36 G	22203991.45	22203991.65	22203991.87	0.0089	0.0021	
Venus	56080-12-23 17:02 G	22204217.00	22204217.21	22204217.43	0.0089	0.0014	
Venus	56081-08-06 06:29 G	22204442.55	22204442.77	22204442.99	0.0089	0.0007	
Venus	56082-03-19 19:41 G	22204668.10	22204668.32	22204668.54	0.0089	0.0001	
Venus	56082-10-31 08:53 G	22204893.65	22204893.87	22204894.09	0.0089	0.0007	
Venus	56083-06-13 22:05 G	22205119.21	22205119.42	22205119.64	0.0089	0.0013	
Venus	56084-01-25 11:17 G	22205344.76	22205344.97	22205345.19	0.0089	0.0020	
Venus	56084-09-07 00:29 G	22205570.32	22205570.52	22205570.74	0.0089	0.0027	
Venus	56085-04-20 13:55 G	22205795.88	22205796.08	22205796.28	0.0089	0.0034	
Venus	56085-12-02 02:53 G	22206021.44	22206021.62	22206021.83	0.0089	0.0041	
Venus	56086-07-15 16:05 G	22206247.00	22206247.17	22206247.37	0.0089	0.0048	
Venus	56087-02-26 05:17 G	22206472.56	22206472.72	22206472.91	0.0089	0.0055	
Venus	56087-10-09 18:29 G	22206698.13	22206698.27	22206698.45	0.0089	0.0062	
Venus	56088-05-22 07:55 G	22206923.70	22206923.83	22206923.99	0.0090	0.0068	
Venus	56089-01-02 21:07 G	22207149.28	22207149.38	22207149.52	0.0090	0.0075	

Venus	56089-08-16 10:19 G	22207374.87	22207374.93	22207375.05	0.0090	0.0082
Venus	56090-03-30 00:00 G	22207600.47	22207600.50	22207600.55	0.0090	0.0088
Mars	56098-06-02 19:55 G	22210587.11	22210587.33	22210587.60	0.0090	0.0063
Mars	56100-04-30 07:26 G	22211283.72	22211283.81	22211283.97	0.0090	0.0084
Mercury	56130-02-16 14:38 G	22222168.09	22222168.11	22222168.16	0.0089	0.0086
Mercury	56130-05-15 16:05 G	22222256.12	22222256.17	22222256.25	0.0089	0.0077
Mercury	56130-08-11 17:31 G	22222344.16	22222344.23	22222344.32	0.0089	0.0069
Mercury	56130-11-07 18:58 G	22222432.20	22222432.29	22222432.40	0.0089	0.0061
Mercury	56131-02-03 20:24 G	22222520.25	22222520.35	22222520.46	0.0089	0.0053
Mercury	56131-05-02 21:50 G	22222608.30	22222608.41	22222608.53	0.0089	0.0045
Mercury	56131-07-29 23:17 G	22222696.35	22222696.47	22222696.59	0.0089	0.0037
Mercury	56131-10-26 00:43 G	22222784.40	22222784.53	22222784.66	0.0089	0.0029
Mercury	56132-01-22 02:10 G	22222872.46	22222872.59	22222872.72	0.0089	0.0021
Mercury	56132-04-19 03:22 G	22222960.51	22222960.64	22222960.78	0.0089	0.0013
Mercury	56132-07-16 04:48 G	22223048.57	22223048.70	22223048.83	0.0089	0.0005
Mercury	56132-10-12 06:00 G	22223136.62	22223136.75	22223136.89	0.0089	0.0004
Mercury	56133-01-08 07:26 G	22223224.68	22223224.81	22223224.94	0.0089	0.0010
Mercury	56133-04-06 08:53 G	22223312.74	22223312.87	22223313.00	0.0089	0.0018
Mercury	56133-07-03 10:05 G	22223400.80	22223400.92	22223401.05	0.0089	0.0026
Mercury	56133-09-29 11:17 G	22223488.86	22223488.97	22223489.10	0.0089	0.0034
Mercury	56133-12-26 12:43 G	22223576.92	22223577.03	22223577.15	0.0089	0.0042
Mercury	56134-03-24 14:10 G	22223664.98	22223665.09	22223665.20	0.0089	0.0049
Mercury	56134-06-20 15:22 G	22223753.04	22223753.14	22223753.24	0.0089	0.0057
Mercury	56134-09-16 16:34 G	22223841.11	22223841.19	22223841.29	0.0089	0.0065
Mercury	56134-12-13 17:46 G	22223929.18	22223929.24	22223929.33	0.0089	0.0073
Mercury	56135-03-11 19:26 G	22224017.25	22224017.31	22224017.36	0.0089	0.0080
Mercury	56135-06-07 20:38 G	22224105.35	22224105.36	22224105.38	0.0089	0.0088
Earth	56141-03-14 22:05 G	22226212.38	22226212.42	22226212.51	0.0089	0.0086
Earth	56142-03-17 10:19 G	22226579.75	22226579.93	22226580.15	0.0089	0.0056
Moon	56142-03-17 14:10 G	22226579.89	22226580.09	22226580.31	0.0089	0.0052 *

Jupiter	56143-01-18 20:24 G	22226887.08	22226887.35	22226887.75	0.0089	0.0070
Moon	56143-03-19 19:41 G	22226947.08	22226947.32	22226947.56	0.0089	0.0030
Earth	56143-03-19 22:48 G	22226947.21	22226947.45	22226947.71	0.0089	0.0026 *
Earth	56144-03-21 11:02 G	22227314.70	22227314.96	22227315.22	0.0089	0.0005
Moon	56144-03-21 13:55 G	22227314.82	22227315.08	22227315.34	0.0089	0.0008 *
Moon	56145-03-23 20:53 G	22227682.15	22227682.37	22227682.62	0.0089	0.0032
Earth	56145-03-23 23:02 G	22227682.23	22227682.46	22227682.71	0.0089	0.0035 *
Earth	56146-03-26 11:02 G	22228049.80	22228049.96	22228050.15	0.0089	0.0065
Moon	56146-03-26 11:17 G	22228049.83	22228049.97	22228050.16	0.0089	0.0069 *
Venus	56155-09-14 12:14 G	22231508.94	22231509.01	22231509.09	0.0088	0.0083
Venus	56156-04-27 00:43 G	22231734.44	22231734.53	22231734.66	0.0088	0.0077
Venus	56156-12-08 13:41 G	22231959.96	22231960.07	22231960.22	0.0088	0.0070
Venus	56157-07-22 02:53 G	22232185.48	22232185.62	22232185.78	0.0088	0.0063
Venus	56158-03-04 15:36 G	22232411.01	22232411.15	22232411.34	0.0088	0.0057
Venus	56158-10-16 04:48 G	22232636.53	22232636.70	22232636.89	0.0088	0.0050
Venus	56159-05-29 17:31 G	22232862.05	22232862.23	22232862.44	0.0088	0.0044
Venus	56160-01-10 06:29 G	22233087.58	22233087.77	22233087.98	0.0088	0.0038
Venus	56160-08-22 19:12 G	22233313.11	22233313.30	22233313.52	0.0088	0.0031
Venus	56161-04-05 08:10 G	22233538.64	22233538.84	22233539.06	0.0088	0.0025
Venus	56161-11-16 20:53 G	22233764.17	22233764.37	22233764.60	0.0088	0.0018
Venus	56162-06-30 09:50 G	22233989.70	22233989.91	22233990.13	0.0088	0.0011
Venus	56163-02-10 22:48 G	22234215.23	22234215.45	22234215.67	0.0088	0.0005
Venus	56163-09-24 11:46 G	22234440.77	22234440.99	22234441.21	0.0088	0.0002
Venus	56164-05-07 00:14 G	22234666.30	22234666.51	22234666.74	0.0088	0.0009
Venus	56164-12-18 12:58 G	22234891.83	22234892.04	22234892.26	0.0088	0.0015
Venus	56165-08-01 01:55 G	22235117.37	22235117.58	22235117.79	0.0088	0.0021
Venus	56166-03-14 14:38 G	22235342.91	22235343.11	22235343.33	0.0088	0.0028
Venus	56166-10-26 03:22 G	22235568.45	22235568.64	22235568.85	0.0088	0.0035
Venus	56167-06-08 16:05 G	22235793.99	22235794.17	22235794.38	0.0088	0.0041
Venus	56168-01-20 04:48 G	22236019.53	22236019.70	22236019.90	0.0088	0.0048

Venus	56168-09-01 17:46 G	22236245.08	22236245.24	22236245.42	0.0088	0.0054
Venus	56169-04-15 06:43 G	22236470.63	22236470.78	22236470.95	0.0088	0.0060
Venus	56169-11-26 19:12 G	22236696.17	22236696.30	22236696.46	0.0088	0.0067
Venus	56170-07-10 07:55 G	22236921.73	22236921.83	22236921.97	0.0088	0.0073
Venus	56171-02-20 21:07 G	22237147.29	22237147.38	22237147.48	0.0088	0.0079
Venus	56171-10-04 09:22 G	22237372.87	22237372.89	22237372.96	0.0088	0.0086
Mars	56180-03-16 13:55 G	22240458.90	22240459.08	22240459.28	0.0088	0.0065
Mars	56182-02-08 02:10 G	22241152.37	22241152.59	22241152.84	0.0088	0.0050
Mercury	56214-04-17 02:24 G	22252907.54	22252907.60	22252907.69	0.0088	0.0081
Mercury	56214-07-14 06:00 G	22252995.64	22252995.75	22252995.87	0.0088	0.0070
Mercury	56214-10-10 09:36 G	22253083.75	22253083.90	22253084.04	0.0088	0.0059
Mercury	56215-01-06 12:29 G	22253171.88	22253172.02	22253172.20	0.0088	0.0049
Mercury	56215-04-04 16:05 G	22253260.01	22253260.17	22253260.36	0.0088	0.0037
Mercury	56215-07-01 19:41 G	22253348.14	22253348.32	22253348.51	0.0088	0.0026
Mercury	56215-09-27 23:02 G	22253436.28	22253436.46	22253436.66	0.0088	0.0016
Mercury	56215-12-25 02:53 G	22253524.42	22253524.62	22253524.81	0.0088	0.0004
Mercury	56216-03-22 06:14 G	22253612.57	22253612.76	22253612.96	0.0088	0.0007
Mercury	56216-06-18 09:36 G	22253700.72	22253700.90	22253701.10	0.0088	0.0019
Mercury	56216-09-14 13:12 G	22253788.87	22253789.05	22253789.24	0.0088	0.0030
Mercury	56216-12-11 16:48 G	22253877.03	22253877.20	22253877.37	0.0088	0.0041
Mercury	56217-03-09 19:55 G	22253965.19	22253965.33	22253965.50	0.0088	0.0053
Mercury	56217-06-05 23:31 G	22254053.36	22254053.48	22254053.63	0.0088	0.0064
Mercury	56217-09-02 03:07 G	22254141.54	22254141.63	22254141.75	0.0088	0.0075
Mercury	56217-11-29 06:43 G	22254229.75	22254229.78	22254229.84	0.0088	0.0086
Moon	56224-09-17 07:55 G	22256713.73	22256713.83	22256713.98	0.0089	0.0077
Earth	56224-09-17 11:02 G	22256713.88	22256713.96	22256714.09	0.0089	0.0081 *
Earth	56225-09-19 22:19 G	22257081.24	22257081.43	22257081.66	0.0089	0.0051
Moon	56225-09-20 01:12 G	22257081.37	22257081.55	22257081.78	0.0089	0.0056 *
Moon	56226-09-22 08:24 G	22257448.61	22257448.85	22257449.10	0.0089	0.0017
Earth	56226-09-22 09:50 G	22257448.67	22257448.91	22257449.17	0.0089	0.0021 *

Earth	56227-09-24 21:07 G	22257816.13	22257816.38	22257816.64	0.0089	0.0009
Moon	56227-09-24 21:36 G	22257816.14	22257816.40	22257816.67	0.0089	0.0005 *
Earth	56228-09-26 07:55 G	22258183.62	22258183.83	22258184.08	0.0089	0.0039
Moon	56228-09-26 08:24 G	22258183.65	22258183.85	22258184.08	0.0089	0.0044 *
Moon	56229-09-28 17:17 G	22258551.04	22258551.22	22258551.40	0.0089	0.0064
Earth	56229-09-28 19:12 G	22258551.16	22258551.30	22258551.48	0.0089	0.0069 *
Venus	56238-06-13 03:07 G	22261730.60	22261730.63	22261730.70	0.0089	0.0087
Venus	56239-01-24 16:05 G	22261956.10	22261956.17	22261956.29	0.0089	0.0080
Venus	56239-09-07 05:31 G	22262181.62	22262181.73	22262181.86	0.0089	0.0074
Venus	56240-04-19 18:29 G	22262407.14	22262407.27	22262407.43	0.0089	0.0067
Venus	56240-12-01 07:41 G	22262632.67	22262632.82	22262632.99	0.0089	0.0061
Venus	56241-07-14 20:38 G	22262858.21	22262858.36	22262858.56	0.0089	0.0055
Venus	56242-02-25 10:05 G	22263083.75	22263083.92	22263084.12	0.0089	0.0047
Venus	56242-10-08 23:17 G	22263309.29	22263309.47	22263309.68	0.0089	0.0041
Venus	56243-05-22 12:43 G	22263534.83	22263535.03	22263535.23	0.0089	0.0034
Venus	56244-01-03 01:41 G	22263760.37	22263760.57	22263760.79	0.0089	0.0027
Venus	56244-08-15 15:07 G	22263985.92	22263986.13	22263986.35	0.0089	0.0020
Venus	56245-03-29 04:34 G	22264211.47	22264211.69	22264211.91	0.0089	0.0013
Venus	56245-11-09 17:46 G	22264437.02	22264437.24	22264437.46	0.0089	0.0007
Venus	56246-06-23 06:58 G	22264662.57	22264662.79	22264663.01	0.0089	0.0000
Venus	56247-02-03 20:10 G	22264888.12	22264888.34	22264888.56	0.0089	0.0007
Venus	56247-09-17 09:36 G	22265113.68	22265113.90	22265114.12	0.0089	0.0014
Venus	56248-04-29 22:48 G	22265339.24	22265339.45	22265339.66	0.0089	0.0021
Venus	56248-12-11 11:46 G	22265564.79	22265564.99	22265565.21	0.0089	0.0028
Venus	56249-07-25 00:58 G	22265790.35	22265790.54	22265790.76	0.0089	0.0035
Venus	56250-03-07 14:24 G	22266015.91	22266016.10	22266016.30	0.0089	0.0041
Venus	56250-10-19 03:36 G	22266241.47	22266241.65	22266241.85	0.0089	0.0048
Venus	56251-06-01 16:34 G	22266467.04	22266467.19	22266467.38	0.0089	0.0055
Venus	56252-01-13 06:14 G	22266692.60	22266692.76	22266692.92	0.0089	0.0061
Venus	56252-08-25 19:12 G	22266918.18	22266918.30	22266918.46	0.0090	0.0068

Venus	56253-04-08 08:24 G	22267143.75	22267143.85	22267143.99	0.0090	0.0075
Venus	56253-11-19 21:50 G	22267369.33	22267369.41	22267369.52	0.0090	0.0081
Venus	56254-07-03 10:48 G	22267594.93	22267594.95	22267595.02	0.0090	0.0088
Mars	56263-12-13 19:26 G	22271045.00	22271045.31	22271045.65	0.0090	0.0027
Mercury	56294-08-18 13:12 G	22282251.05	22282251.05	22282251.07	0.0089	0.0089
Mercury	56294-11-14 14:38 G	22282339.07	22282339.11	22282339.18	0.0089	0.0081
Mercury	56295-02-10 16:05 G	22282427.10	22282427.17	22282427.26	0.0089	0.0073
Mercury	56295-05-09 17:31 G	22282515.15	22282515.23	22282515.33	0.0089	0.0065
Mercury	56295-08-05 18:43 G	22282603.19	22282603.28	22282603.40	0.0089	0.0058
Mercury	56295-11-01 20:10 G	22282691.24	22282691.34	22282691.46	0.0089	0.0049
Mercury	56296-01-28 21:36 G	22282779.29	22282779.40	22282779.53	0.0089	0.0041
Mercury	56296-04-25 23:02 G	22282867.34	22282867.46	22282867.59	0.0089	0.0033
Mercury	56296-07-23 00:29 G	22282955.40	22282955.52	22282955.65	0.0089	0.0025
Mercury	56296-10-19 01:55 G	22283043.45	22283043.58	22283043.71	0.0089	0.0017
Mercury	56297-01-15 03:22 G	22283131.51	22283131.64	22283131.77	0.0089	0.0009
Mercury	56297-04-13 04:48 G	22283219.56	22283219.70	22283219.83	0.0089	0.0003
Mercury	56297-07-10 06:00 G	22283307.62	22283307.75	22283307.89	0.0089	0.0007
Mercury	56297-10-06 07:26 G	22283395.68	22283395.81	22283395.94	0.0089	0.0015
Mercury	56298-01-02 08:38 G	22283483.74	22283483.86	22283483.99	0.0089	0.0023
Mercury	56298-03-31 10:05 G	22283571.80	22283571.92	22283572.04	0.0089	0.0030
Mercury	56298-06-27 11:17 G	22283659.86	22283659.97	22283660.10	0.0089	0.0038
Mercury	56298-09-23 12:43 G	22283747.92	22283748.03	22283748.14	0.0089	0.0046
Mercury	56298-12-20 13:55 G	22283835.98	22283836.08	22283836.19	0.0089	0.0054
Mercury	56299-03-18 15:07 G	22283924.05	22283924.13	22283924.24	0.0089	0.0062
Mercury	56299-06-14 16:48 G	22284012.12	22284012.20	22284012.28	0.0089	0.0069
Mercury	56299-09-10 18:00 G	22284100.19	22284100.25	22284100.32	0.0089	0.0077
Mercury	56299-12-07 19:12 G	22284188.27	22284188.30	22284188.34	0.0089	0.0085
Moon	56306-03-18 17:17 G	22286480.09	22286480.22	22286480.39	0.0089	0.0072
Earth	56306-03-18 20:38 G	22286480.22	22286480.36	22286480.54	0.0089	0.0070 *
Earth	56307-03-21 08:38 G	22286847.65	22286847.86	22286848.11	0.0089	0.0040



Moon	56307-03-21 11:02 G	22286847.74	22286847.96	22286848.22	0.0089	0.0038 *
Moon	56308-03-22 20:10 G	22287215.09	22287215.34	22287215.59	0.0089	0.0011
Earth	56308-03-22 21:07 G	22287215.13	22287215.38	22287215.65	0.0089	0.0010 *
Jupiter	56309-03-23 07:26 G	22287580.32	22287580.81	22287581.35	0.0089	0.0027
Earth	56309-03-25 09:22 G	22287582.65	22287582.89	22287583.15	0.0089	0.0021
Moon	56309-03-25 09:36 G	22287582.66	22287582.90	22287583.17	0.0089	0.0024 *
Earth	56310-03-27 21:22 G	22287950.19	22287950.39	22287950.61	0.0089	0.0051
Moon	56310-03-27 22:19 G	22287950.25	22287950.43	22287950.66	0.0089	0.0050 *
Moon	56311-03-30 06:43 G	22288317.72	22288317.78	22288317.90	0.0089	0.0083
Earth	56311-03-30 09:36 G	22288317.81	22288317.90	22288318.01	0.0089	0.0081 *
Venus	56319-05-07 10:34 G	22291277.93	22291277.94	22291277.98	0.0088	0.0088
Venus	56319-12-18 23:17 G	22291503.41	22291503.47	22291503.57	0.0088	0.0081
Venus	56320-07-31 12:00 G	22291728.91	22291729.00	22291729.14	0.0088	0.0076
Venus	56321-03-14 01:26 G	22291954.43	22291954.56	22291954.71	0.0088	0.0069
Venus	56321-10-25 14:10 G	22292179.95	22292180.09	22292180.26	0.0088	0.0062
Venus	56322-06-08 02:53 G	22292405.48	22292405.62	22292405.82	0.0088	0.0057
Venus	56323-01-19 16:19 G	22292631.00	22292631.18	22292631.37	0.0088	0.0049
Venus	56323-09-02 05:02 G	22292856.53	22292856.71	22292856.92	0.0088	0.0043
Venus	56324-04-14 18:00 G	22293082.06	22293082.25	22293082.46	0.0088	0.0037
Venus	56324-11-26 06:43 G	22293307.59	22293307.78	22293308.00	0.0088	0.0030
Venus	56325-07-09 19:55 G	22293533.12	22293533.33	22293533.54	0.0088	0.0023
Venus	56326-02-20 08:38 G	22293758.65	22293758.86	22293759.09	0.0088	0.0017
Venus	56326-10-03 21:36 G	22293984.19	22293984.40	22293984.62	0.0088	0.0011
Venus	56327-05-17 10:34 G	22294209.72	22294209.94	22294210.16	0.0088	0.0004
Venus	56327-12-28 23:17 G	22294435.25	22294435.47	22294435.69	0.0088	0.0003
Venus	56328-08-10 12:00 G	22294660.78	22294661.00	22294661.22	0.0088	0.0009
Venus	56329-03-24 00:58 G	22294886.32	22294886.54	22294886.75	0.0088	0.0015
Venus	56329-11-04 13:26 G	22295111.86	22295112.06	22295112.28	0.0088	0.0022
Venus	56330-06-18 02:24 G	22295337.39	22295337.60	22295337.81	0.0088	0.0028
Venus	56331-01-29 14:53 G	22295562.93	22295563.12	22295563.34	0.0088	0.0035

Venus	56331-09-12 03:50 G	22295788.47	22295788.66	22295788.86	0.0088	0.0041
Venus	56332-04-24 16:19 G	22296014.02	22296014.18	22296014.39	0.0088	0.0048
Venus	56332-12-06 05:17 G	22296239.56	22296239.72	22296239.91	0.0088	0.0054
Venus	56333-07-19 18:14 G	22296465.11	22296465.26	22296465.42	0.0088	0.0060
Venus	56334-03-02 06:43 G	22296690.66	22296690.78	22296690.95	0.0088	0.0067
Venus	56334-10-13 19:41 G	22296916.22	22296916.32	22296916.46	0.0088	0.0073
Venus	56335-05-27 08:38 G	22297141.78	22297141.86	22297141.96	0.0088	0.0079
Venus	56336-01-07 21:22 G	22297367.35	22297367.39	22297367.45	0.0088	0.0085
Mars	56345-09-25 20:53 G	22300916.09	22300916.37	22300916.67	0.0088	0.0006
Mercury	56378-10-16 22:19 G	22312990.38	22312990.43	22312990.48	0.0088	0.0085
Mercury	56379-01-13 01:12 G	22313078.47	22313078.55	22313078.68	0.0088	0.0075
Mercury	56379-04-11 04:48 G	22313166.58	22313166.70	22313166.85	0.0088	0.0063
Mercury	56379-07-08 08:24 G	22313254.71	22313254.85	22313255.01	0.0088	0.0052
Mercury	56379-10-04 11:46 G	22313342.83	22313342.99	22313343.17	0.0088	0.0042
Mercury	56379-12-31 15:22 G	22313430.97	22313431.14	22313431.33	0.0088	0.0030
Mercury	56380-03-28 18:43 G	22313519.10	22313519.28	22313519.48	0.0088	0.0020
Mercury	56380-06-24 22:19 G	22313607.24	22313607.43	22313607.63	0.0088	0.0008
Mercury	56380-09-21 01:55 G	22313695.39	22313695.58	22313695.77	0.0088	0.0003
Mercury	56380-12-18 05:17 G	22313783.53	22313783.72	22313783.91	0.0088	0.0014
Mercury	56381-03-16 08:38 G	22313871.68	22313871.86	22313872.05	0.0088	0.0025
Mercury	56381-06-12 12:00 G	22313959.84	22313960.00	22313960.19	0.0088	0.0037
Mercury	56381-09-08 15:36 G	22314048.00	22314048.15	22314048.32	0.0088	0.0047
Mercury	56381-12-05 19:12 G	22314136.16	22314136.30	22314136.45	0.0088	0.0058
Mercury	56382-03-03 22:34 G	22314224.34	22314224.44	22314224.57	0.0088	0.0070
Mercury	56382-05-31 02:24 G	22314312.53	22314312.60	22314312.68	0.0088	0.0081
Moon	56389-09-20 07:55 G	22316981.69	22316981.83	22316982.02	0.0089	0.0067
Earth	56389-09-20 09:36 G	22316981.74	22316981.90	22316982.09	0.0089	0.0065 *
Moon	56390-09-22 20:38 G	22317349.13	22317349.36	22317349.62	0.0089	0.0033
Earth	56390-09-22 20:53 G	22317349.15	22317349.37	22317349.62	0.0089	0.0035 *
Earth	56391-09-25 08:24 G	22317716.59	22317716.85	22317717.10	0.0089	0.0005

Moon	56391-09-25 09:36 G	22317716.66	22317716.90	22317717.15	0.0089	0.0007 *
Moon	56392-09-26 17:02 G	22318083.97	22318084.21	22318084.48	0.0089	0.0027
Earth	56392-09-26 19:26 G	22318084.07	22318084.31	22318084.56	0.0089	0.0025 *
Earth	56393-09-29 06:14 G	22318451.57	22318451.76	22318451.98	0.0089	0.0055
Moon	56393-09-29 09:50 G	22318451.71	22318451.91	22318452.11	0.0089	0.0053 *
Moon	56394-10-01 13:55 G	22318819.05	22318819.08	22318819.15	0.0089	0.0087
Earth	56394-10-01 17:17 G	22318819.17	22318819.22	22318819.32	0.0089	0.0085
Venus	56402-09-15 14:24 G	22321725.06	22321725.10	22321725.19	0.0089	0.0086
Venus	56403-04-29 04:05 G	22321950.57	22321950.67	22321950.77	0.0089	0.0079
Venus	56403-12-10 16:48 G	22322176.09	22322176.20	22322176.35	0.0089	0.0073
Venus	56404-07-23 06:29 G	22322401.62	22322401.77	22322401.92	0.0089	0.0066
Venus	56405-03-05 19:12 G	22322627.16	22322627.30	22322627.48	0.0089	0.0060
Venus	56405-10-17 08:38 G	22322852.69	22322852.86	22322853.04	0.0089	0.0053
Venus	56406-05-30 21:36 G	22323078.22	22323078.40	22323078.60	0.0089	0.0046
Venus	56407-01-11 10:48 G	22323303.76	22323303.95	22323304.15	0.0089	0.0040
Venus	56407-08-25 00:00 G	22323529.31	22323529.50	22323529.72	0.0089	0.0033
Venus	56408-04-06 13:12 G	22323754.85	22323755.05	22323755.27	0.0089	0.0027
Venus	56408-11-18 02:38 G	22323980.40	22323980.61	22323980.82	0.0089	0.0019
Venus	56409-07-01 15:50 G	22324205.94	22324206.16	22324206.38	0.0089	0.0013
Venus	56410-02-12 05:02 G	22324431.49	22324431.71	22324431.93	0.0089	0.0006
Venus	56410-09-25 18:29 G	22324657.05	22324657.27	22324657.49	0.0089	0.0001
Venus	56411-05-09 07:41 G	22324882.60	22324882.82	22324883.04	0.0089	0.0008
Venus	56411-12-20 20:53 G	22325108.16	22325108.37	22325108.59	0.0089	0.0014
Venus	56412-08-02 10:05 G	22325333.72	22325333.92	22325334.14	0.0089	0.0021
Venus	56413-03-15 23:31 G	22325559.28	22325559.48	22325559.69	0.0089	0.0028
Venus	56413-10-27 12:43 G	22325784.84	22325785.03	22325785.24	0.0089	0.0035
Venus	56414-06-10 01:41 G	22326010.39	22326010.57	22326010.78	0.0089	0.0042
Venus	56415-01-21 15:22 G	22326235.96	22326236.14	22326236.33	0.0089	0.0048
Venus	56415-09-04 04:19 G	22326461.53	22326461.68	22326461.87	0.0089	0.0055
Venus	56416-04-16 17:31 G	22326687.09	22326687.23	22326687.41	0.0089	0.0062

Venus	56416-11-28 06:58 G	22326912.66	22326912.79	22326912.94	0.0090	0.0068
Venus	56417-07-11 19:55 G	22327138.23	22327138.33	22327138.47	0.0090	0.0075
Venus	56418-02-22 09:22 G	22327363.81	22327363.89	22327364.00	0.0090	0.0081
Venus	56418-10-05 22:19 G	22327589.41	22327589.43	22327589.51	0.0090	0.0088
Mars	56427-07-28 06:00 G	22330806.45	22330806.75	22330807.10	0.0090	0.0032
Mercury	56459-05-16 13:12 G	22342422.02	22342422.05	22342422.10	0.0089	0.0085
Mercury	56459-08-12 14:38 G	22342510.05	22342510.11	22342510.19	0.0089	0.0077
Mercury	56459-11-08 16:05 G	22342598.09	22342598.17	22342598.26	0.0089	0.0068
Mercury	56460-02-04 17:31 G	22342686.14	22342686.23	22342686.33	0.0089	0.0060
Mercury	56460-05-02 18:58 G	22342774.19	22342774.29	22342774.40	0.0089	0.0052
Mercury	56460-07-29 20:24 G	22342862.24	22342862.35	22342862.47	0.0089	0.0044
Mercury	56460-10-25 21:50 G	22342950.29	22342950.41	22342950.53	0.0089	0.0036
Mercury	56461-01-21 23:02 G	22343038.34	22343038.46	22343038.59	0.0089	0.0029
Mercury	56461-04-20 00:29 G	22343126.39	22343126.52	22343126.65	0.0089	0.0020
Mercury	56461-07-17 01:55 G	22343214.45	22343214.58	22343214.71	0.0089	0.0013
Mercury	56461-10-13 03:22 G	22343302.50	22343302.64	22343302.77	0.0089	0.0005
Mercury	56462-01-09 04:34 G	22343390.56	22343390.69	22343390.83	0.0089	0.0003
Mercury	56462-04-07 06:00 G	22343478.62	22343478.75	22343478.88	0.0089	0.0011
Mercury	56462-07-04 07:12 G	22343566.67	22343566.80	22343566.93	0.0089	0.0019
Mercury	56462-09-30 08:38 G	22343654.73	22343654.86	22343654.99	0.0089	0.0027
Mercury	56462-12-27 09:50 G	22343742.79	22343742.91	22343743.04	0.0089	0.0035
Mercury	56463-03-25 11:02 G	22343830.86	22343830.96	22343831.09	0.0089	0.0043
Mercury	56463-06-21 12:43 G	22343918.92	22343919.03	22343919.14	0.0089	0.0050
Mercury	56463-09-17 13:55 G	22344006.98	22344007.08	22344007.18	0.0089	0.0058
Mercury	56463-12-14 15:07 G	22344095.05	22344095.13	22344095.23	0.0089	0.0066
Mercury	56464-03-11 16:19 G	22344183.12	22344183.18	22344183.27	0.0089	0.0074
Mercury	56464-06-07 18:00 G	22344271.20	22344271.25	22344271.30	0.0089	0.0081
Earth	56470-03-18 06:29 G	22346380.71	22346380.77	22346380.87	0.0089	0.0084
Moon	56470-03-18 08:38 G	22346380.84	22346380.86	22346380.92	0.0089	0.0088 *
Moon	56471-03-20 18:29 G	22346748.06	22346748.27	22346748.47	0.0089	0.0049

Earth	56471-03-20 18:43 G	22346748.09	22346748.28	22346748.50	0.0089	0.0054	*
Moon	56472-03-22 06:00 G	22347115.51	22347115.75	22347116.02	0.0089	0.0028	
Earth	56472-03-22 06:58 G	22347115.55	22347115.79	22347116.05	0.0089	0.0024	*
Earth	56473-03-24 19:12 G	22347483.04	22347483.30	22347483.56	0.0089	0.0007	
Moon	56473-03-24 20:38 G	22347483.11	22347483.36	22347483.61	0.0089	0.0011	*
Moon	56474-03-27 04:05 G	22347850.44	22347850.67	22347850.93	0.0089	0.0033	
Earth	56474-03-27 07:12 G	22347850.57	22347850.80	22347851.04	0.0089	0.0037	*
Earth	56475-03-29 19:26 G	22348218.14	22348218.31	22348218.48	0.0089	0.0067	
Moon	56475-03-29 22:19 G	22348218.30	22348218.43	22348218.60	0.0089	0.0072	*
Venus	56483-08-08 21:50 G	22351272.39	22351272.41	22351272.49	0.0088	0.0087	
Venus	56484-03-21 11:17 G	22351497.89	22351497.97	22351498.07	0.0088	0.0080	
Venus	56484-11-02 00:00 G	22351723.39	22351723.50	22351723.63	0.0088	0.0074	
Venus	56485-06-15 12:58 G	22351948.91	22351949.04	22351949.19	0.0088	0.0067	
Venus	56486-01-27 01:41 G	22352174.44	22352174.57	22352174.75	0.0088	0.0062	
Venus	56486-09-09 15:07 G	22352399.96	22352400.13	22352400.31	0.0088	0.0054	
Venus	56487-04-23 03:50 G	22352625.48	22352625.66	22352625.85	0.0088	0.0048	
Venus	56487-12-04 16:34 G	22352851.01	22352851.19	22352851.40	0.0088	0.0042	
Venus	56488-07-17 05:46 G	22353076.54	22353076.74	22353076.95	0.0088	0.0035	
Venus	56489-02-27 18:43 G	22353302.08	22353302.28	22353302.50	0.0088	0.0029	
Venus	56489-10-11 07:41 G	22353527.61	22353527.82	22353528.04	0.0088	0.0022	
Venus	56490-05-24 20:24 G	22353753.14	22353753.35	22353753.58	0.0088	0.0016	
Venus	56491-01-05 09:22 G	22353978.67	22353978.89	22353979.11	0.0088	0.0010	
Venus	56491-08-18 22:19 G	22354204.21	22354204.43	22354204.65	0.0088	0.0003	
Venus	56492-03-31 11:02 G	22354429.74	22354429.96	22354430.18	0.0088	0.0004	
Venus	56492-11-11 23:46 G	22354655.28	22354655.49	22354655.72	0.0088	0.0010	
Venus	56493-06-25 12:29 G	22354880.81	22354881.02	22354881.25	0.0088	0.0016	
Venus	56494-02-06 01:12 G	22355106.35	22355106.55	22355106.78	0.0088	0.0023	
Venus	56494-09-19 14:10 G	22355331.89	22355332.09	22355332.30	0.0088	0.0029	
Venus	56495-05-03 02:53 G	22355557.42	22355557.62	22355557.83	0.0088	0.0035	
Venus	56495-12-14 15:22 G	22355782.96	22355783.14	22355783.35	0.0088	0.0042	

Venus	56496-07-27 04:05 G	22356008.50	22356008.67	22356008.87	0.0088	0.0048
Venus	56497-03-09 17:02 G	22356234.05	22356234.21	22356234.40	0.0088	0.0054
Venus	56497-10-21 06:00 G	22356459.60	22356459.75	22356459.91	0.0088	0.0060
Venus	56498-06-03 18:14 G	22356685.14	22356685.26	22356685.43	0.0088	0.0067
Venus	56499-01-15 07:12 G	22356910.69	22356910.80	22356910.94	0.0088	0.0073
Venus	56499-08-28 19:55 G	22357136.25	22357136.33	22357136.44	0.0088	0.0079
Venus	56500-04-11 08:53 G	22357361.83	22357361.87	22357361.94	0.0088	0.0085
Mars	56509-05-12 16:48 G	22360679.97	22360680.20	22360680.48	0.0088	0.0040
Mars	56511-04-06 03:50 G	22361373.55	22361373.66	22361373.83	0.0088	0.0077
Mercury	56543-07-14 21:07 G	22373161.30	22373161.38	22373161.47	0.0088	0.0079
Mercury	56543-10-11 00:43 G	22373249.41	22373249.53	22373249.65	0.0088	0.0068
Mercury	56544-01-07 03:36 G	22373337.53	22373337.65	22373337.82	0.0088	0.0058
Mercury	56544-04-04 07:12 G	22373425.65	22373425.80	22373425.98	0.0088	0.0046
Mercury	56544-07-01 10:48 G	22373513.78	22373513.95	22373514.13	0.0088	0.0035
Mercury	56544-09-27 14:10 G	22373601.92	22373602.09	22373602.29	0.0088	0.0025
Mercury	56544-12-24 17:46 G	22373690.06	22373690.24	22373690.44	0.0088	0.0013
Mercury	56545-03-22 21:22 G	22373778.20	22373778.39	22373778.58	0.0088	0.0002
Mercury	56545-06-19 00:43 G	22373866.34	22373866.53	22373866.73	0.0088	0.0009
Mercury	56545-09-15 04:05 G	22373954.49	22373954.67	22373954.87	0.0088	0.0020
Mercury	56545-12-12 07:26 G	22374042.64	22374042.81	22374043.00	0.0088	0.0032
Mercury	56546-03-10 11:02 G	22374130.80	22374130.96	22374131.14	0.0088	0.0042
Mercury	56546-06-06 14:24 G	22374218.96	22374219.10	22374219.27	0.0088	0.0054
Mercury	56546-09-02 18:00 G	22374307.13	22374307.25	22374307.39	0.0088	0.0065
Mercury	56546-11-29 21:36 G	22374395.31	22374395.40	22374395.51	0.0088	0.0076
Mercury	56547-02-26 00:43 G	22374483.52	22374483.53	22374483.59	0.0088	0.0088
Moon	56553-09-20 20:10 G	22376882.22	22376882.34	22376882.51	0.0089	0.0075
Earth	56553-09-20 20:38 G	22376882.26	22376882.36	22376882.50	0.0089	0.0079 *
Earth	56554-09-23 07:55 G	22377249.64	22377249.83	22377250.07	0.0089	0.0049
Moon	56554-09-23 09:50 G	22377249.72	22377249.91	22377250.12	0.0089	0.0053 *
Moon	56555-09-25 16:48 G	22377616.94	22377617.20	22377617.46	0.0089	0.0015

Earth	56555-09-25 19:41 G	22377617.07	22377617.32	22377617.57	0.0089	0.0019 *
Earth	56556-09-27 06:43 G	22377984.53	22377984.78	22377985.04	0.0089	0.0012
Moon	56556-09-27 09:50 G	22377984.66	22377984.91	22377985.17	0.0089	0.0008 *
Moon	56557-09-29 13:55 G	22378351.88	22378352.08	22378352.32	0.0089	0.0046
Earth	56557-09-29 17:31 G	22378352.03	22378352.23	22378352.48	0.0089	0.0042 *
Earth	56558-10-02 05:17 G	22378719.57	22378719.72	22378719.87	0.0089	0.0071
Moon	56558-10-02 08:24 G	22378719.69	22378719.85	22378720.02	0.0089	0.0067 *
Venus	56566-12-19 02:10 G	22381719.53	22381719.59	22381719.68	0.0089	0.0084
Venus	56567-08-01 15:22 G	22381945.05	22381945.14	22381945.26	0.0089	0.0077
Venus	56568-03-14 04:19 G	22382170.57	22382170.68	22382170.83	0.0089	0.0071
Venus	56568-10-25 17:46 G	22382396.10	22382396.24	22382396.40	0.0089	0.0064
Venus	56569-06-08 06:29 G	22382621.63	22382621.77	22382621.96	0.0089	0.0059
Venus	56570-01-19 19:55 G	22382847.16	22382847.33	22382847.52	0.0089	0.0052
Venus	56570-09-02 09:07 G	22383072.70	22383072.88	22383073.08	0.0089	0.0045
Venus	56571-04-15 22:19 G	22383298.24	22383298.43	22383298.64	0.0089	0.0039
Venus	56571-11-27 11:17 G	22383523.78	22383523.97	22383524.19	0.0089	0.0032
Venus	56572-07-10 00:43 G	22383749.32	22383749.53	22383749.74	0.0089	0.0025
Venus	56573-02-20 13:55 G	22383974.87	22383975.08	22383975.30	0.0089	0.0019
Venus	56573-10-04 03:07 G	22384200.42	22384200.63	22384200.85	0.0089	0.0012
Venus	56574-05-17 16:19 G	22384425.96	22384426.18	22384426.40	0.0089	0.0005
Venus	56574-12-29 05:31 G	22384651.51	22384651.73	22384651.95	0.0089	0.0001
Venus	56575-08-11 18:43 G	22384877.07	22384877.28	22384877.51	0.0089	0.0008
Venus	56576-03-24 08:10 G	22385102.62	22385102.84	22385103.06	0.0089	0.0015
Venus	56576-11-04 21:07 G	22385328.18	22385328.38	22385328.60	0.0089	0.0022
Venus	56577-06-18 10:19 G	22385553.73	22385553.93	22385554.15	0.0089	0.0028
Venus	56578-01-29 23:46 G	22385779.29	22385779.49	22385779.70	0.0089	0.0035
Venus	56578-09-12 12:58 G	22386004.86	22386005.04	22386005.25	0.0089	0.0042
Venus	56579-04-26 02:38 G	22386230.43	22386230.61	22386230.80	0.0089	0.0048
Venus	56579-12-07 15:36 G	22386455.99	22386456.15	22386456.34	0.0089	0.0055
Venus	56580-07-20 04:34 G	22386681.56	22386681.69	22386681.88	0.0089	0.0062

Venus	56581-03-02 18:14 G	22386907.13	22386907.26	22386907.41	0.0089	0.0068
Venus	56581-10-14 07:12 G	22387132.71	22387132.80	22387132.95	0.0089	0.0075
Venus	56582-05-27 20:38 G	22387358.29	22387358.36	22387358.47	0.0090	0.0081
Venus	56583-01-08 10:05 G	22387583.88	22387583.92	22387583.98	0.0090	0.0087
Mars	56593-02-05 05:46 G	22391264.50	22391264.74	22391265.02	0.0090	0.0059
Mercury	56623-11-16 11:46 G	22402504.98	22402504.99	22402505.02	0.0089	0.0088
Mercury	56624-02-12 13:12 G	22402593.00	22402593.05	22402593.12	0.0089	0.0080
Mercury	56624-05-10 14:24 G	22402681.04	22402681.10	22402681.20	0.0089	0.0073
Mercury	56624-08-06 15:50 G	22402769.08	22402769.16	22402769.27	0.0089	0.0064
Mercury	56624-11-02 17:17 G	22402857.13	22402857.22	22402857.34	0.0089	0.0056
Mercury	56625-01-29 18:43 G	22402945.18	22402945.28	22402945.40	0.0089	0.0048
Mercury	56625-04-27 20:10 G	22403033.23	22403033.34	22403033.47	0.0089	0.0040
Mercury	56625-07-24 21:36 G	22403121.28	22403121.40	22403121.53	0.0089	0.0032
Mercury	56625-10-20 23:02 G	22403209.33	22403209.46	22403209.59	0.0089	0.0024
Mercury	56626-01-17 00:29 G	22403297.39	22403297.52	22403297.65	0.0089	0.0016
Mercury	56626-04-15 01:55 G	22403385.44	22403385.58	22403385.71	0.0089	0.0008
Mercury	56626-07-12 03:07 G	22403473.50	22403473.63	22403473.77	0.0089	0.0001
Mercury	56626-10-08 04:34 G	22403561.56	22403561.69	22403561.82	0.0089	0.0008
Mercury	56627-01-04 05:46 G	22403649.61	22403649.74	22403649.88	0.0089	0.0016
Mercury	56627-04-02 07:12 G	22403737.67	22403737.80	22403737.93	0.0089	0.0023
Mercury	56627-06-29 08:38 G	22403825.73	22403825.86	22403825.98	0.0089	0.0031
Mercury	56627-09-25 09:50 G	22403913.79	22403913.91	22403914.03	0.0089	0.0039
Mercury	56627-12-22 11:02 G	22404001.86	22404001.96	22404002.08	0.0089	0.0047
Mercury	56628-03-19 12:29 G	22404089.92	22404090.02	22404090.13	0.0089	0.0055
Mercury	56628-06-15 13:41 G	22404177.99	22404178.07	22404178.17	0.0089	0.0063
Mercury	56628-09-11 15:07 G	22404266.06	22404266.13	22404266.22	0.0089	0.0070
Mercury	56628-12-08 16:19 G	22404354.13	22404354.18	22404354.25	0.0089	0.0078
Mercury	56629-03-06 17:46 G	22404442.22	22404442.24	22404442.28	0.0089	0.0086
Moon	56635-03-22 04:05 G	22406648.51	22406648.67	22406648.85	0.0089	0.0068
Earth	56635-03-22 04:48 G	22406648.56	22406648.70	22406648.89	0.0089	0.0068 *



Earth	56636-03-23 16:48 G	22407015.99	22407016.20	22407016.46	0.0089	0.0038
Moon	56636-03-23 19:26 G	22407016.10	22407016.31	22407016.55	0.0089	0.0038 *
Moon	56637-03-26 02:24 G	22407383.34	22407383.60	22407383.86	0.0089	0.0008
Earth	56637-03-26 05:17 G	22407383.47	22407383.72	22407383.98	0.0089	0.0007 *
Earth	56638-03-28 17:02 G	22407750.97	22407751.21	22407751.47	0.0089	0.0023
Moon	56638-03-28 20:53 G	22407751.12	22407751.37	22407751.62	0.0089	0.0024 *
Moon	56639-03-31 01:41 G	22408118.38	22408118.57	22408118.79	0.0089	0.0053
Earth	56639-03-31 05:17 G	22408118.52	22408118.72	22408118.93	0.0089	0.0053 *
Earth	56640-04-01 17:17 G	22408486.14	22408486.22	22408486.32	0.0089	0.0083
Moon	56640-04-01 20:10 G	22408486.29	22408486.34	22408486.44	0.0089	0.0085 *
Venus	56647-11-12 09:36 G	22411266.85	22411266.90	22411266.97	0.0088	0.0085
Venus	56648-06-24 22:19 G	22411492.35	22411492.43	22411492.55	0.0088	0.0079
Venus	56649-02-05 11:31 G	22411717.87	22411717.98	22411718.12	0.0088	0.0072
Venus	56649-09-19 00:14 G	22411943.39	22411943.51	22411943.68	0.0088	0.0066
Venus	56650-05-02 12:58 G	22412168.90	22412169.04	22412169.23	0.0088	0.0061
Venus	56650-12-14 02:10 G	22412394.43	22412394.59	22412394.78	0.0088	0.0054
Venus	56651-07-27 14:53 G	22412619.95	22412620.12	22412620.32	0.0088	0.0048
Venus	56652-03-09 03:50 G	22412845.49	22412845.66	22412845.88	0.0088	0.0042
Venus	56652-10-20 17:02 G	22413071.02	22413071.21	22413071.42	0.0088	0.0035
Venus	56653-06-03 06:00 G	22413296.55	22413296.75	22413296.96	0.0088	0.0028
Venus	56654-01-14 18:43 G	22413522.08	22413522.28	22413522.51	0.0088	0.0022
Venus	56654-08-28 07:55 G	22413747.61	22413747.83	22413748.05	0.0088	0.0015
Venus	56655-04-10 20:38 G	22413973.15	22413973.36	22413973.59	0.0088	0.0009
Venus	56655-11-22 09:36 G	22414198.68	22414198.90	22414199.13	0.0088	0.0003
Venus	56656-07-04 22:34 G	22414424.22	22414424.44	22414424.66	0.0088	0.0004
Venus	56657-02-15 11:31 G	22414649.76	22414649.98	22414650.20	0.0088	0.0010
Venus	56657-09-29 00:14 G	22414875.30	22414875.51	22414875.73	0.0088	0.0017
Venus	56658-05-12 12:58 G	22415100.83	22415101.04	22415101.26	0.0088	0.0023
Venus	56658-12-24 01:55 G	22415326.37	22415326.58	22415326.79	0.0088	0.0029
Venus	56659-08-06 14:24 G	22415551.91	22415552.10	22415552.31	0.0088	0.0036

Venus	56660-03-19 03:22 G	22415777.46	22415777.64	22415777.84	0.0088	0.0042
Venus	56660-10-30 16:05 G	22416003.00	22416003.17	22416003.37	0.0088	0.0048
Venus	56661-06-13 05:02 G	22416228.54	22416228.71	22416228.88	0.0088	0.0054
Venus	56662-01-24 17:17 G	22416454.08	22416454.22	22416454.40	0.0088	0.0061
Venus	56662-09-07 06:00 G	22416679.63	22416679.75	22416679.92	0.0088	0.0067
Venus	56663-04-20 18:58 G	22416905.19	22416905.29	22416905.43	0.0088	0.0073
Venus	56663-12-02 07:41 G	22417130.74	22417130.82	22417130.93	0.0088	0.0079
Venus	56664-07-14 20:24 G	22417356.32	22417356.35	22417356.42	0.0088	0.0085
Mars	56672-12-27 11:02 G	22420443.89	22420443.96	22420444.06	0.0088	0.0084
Mars	56674-11-20 23:46 G	22421137.23	22421137.49	22421137.77	0.0088	0.0032
Mercury	56708-01-14 16:34 G	22433244.14	22433244.19	22433244.26	0.0088	0.0083
Mercury	56708-04-11 19:55 G	22433332.24	22433332.33	22433332.45	0.0088	0.0073
Mercury	56708-07-08 23:31 G	22433420.35	22433420.48	22433420.62	0.0088	0.0062
Mercury	56708-10-05 03:07 G	22433508.47	22433508.63	22433508.78	0.0088	0.0051
Mercury	56709-01-01 06:29 G	22433596.60	22433596.77	22433596.94	0.0088	0.0040
Mercury	56709-03-30 09:36 G	22433684.73	22433684.90	22433685.10	0.0088	0.0030
Mercury	56709-06-26 13:12 G	22433772.87	22433773.05	22433773.25	0.0088	0.0018
Mercury	56709-09-22 16:48 G	22433861.01	22433861.20	22433861.39	0.0088	0.0007
Mercury	56709-12-19 20:10 G	22433949.15	22433949.34	22433949.54	0.0088	0.0005
Mercury	56710-03-17 23:31 G	22434037.30	22434037.48	22434037.68	0.0088	0.0016
Mercury	56710-06-14 03:07 G	22434125.45	22434125.63	22434125.82	0.0088	0.0026
Mercury	56710-09-10 06:29 G	22434213.60	22434213.77	22434213.95	0.0088	0.0038
Mercury	56710-12-07 09:50 G	22434301.76	22434301.91	22434302.08	0.0088	0.0049
Mercury	56711-03-05 13:26 G	22434389.93	22434390.06	22434390.21	0.0088	0.0060
Mercury	56711-06-01 17:02 G	22434478.10	22434478.21	22434478.33	0.0088	0.0071
Mercury	56711-08-28 20:10 G	22434566.29	22434566.34	22434566.43	0.0088	0.0082
Moon	56718-09-24 15:22 G	22437149.99	22437150.14	22437150.33	0.0089	0.0066
Earth	56718-09-24 18:29 G	22437150.11	22437150.27	22437150.47	0.0089	0.0063 *
Earth	56719-09-27 06:00 G	22437517.52	22437517.75	22437517.99	0.0089	0.0033
Moon	56719-09-27 09:22 G	22437517.66	22437517.89	22437518.15	0.0089	0.0030 *

Moon	56720-09-28 14:10 G	22437884.84	22437885.09	22437885.35	0.0089	0.0005
Earth	56720-09-28 17:31 G	22437884.98	22437885.23	22437885.49	0.0089	0.0003 *
Earth	56721-10-01 04:19 G	22438252.46	22438252.68	22438252.95	0.0089	0.0028
Moon	56721-10-01 07:55 G	22438252.60	22438252.83	22438253.09	0.0089	0.0030 *
Moon	56722-10-03 13:26 G	22438619.89	22438620.06	22438620.28	0.0089	0.0055
Earth	56722-10-03 15:22 G	22438619.97	22438620.14	22438620.36	0.0089	0.0058 *
Earth	56723-10-06 02:53 G	22438987.59	22438987.62	22438987.68	0.0089	0.0087
Venus	56730-08-11 00:14 G	22441488.50	22441488.51	22441488.55	0.0089	0.0088
Venus	56731-03-24 13:26 G	22441713.99	22441714.06	22441714.16	0.0089	0.0082
Venus	56731-11-05 02:24 G	22441939.51	22441939.60	22441939.74	0.0089	0.0076
Venus	56732-06-17 15:50 G	22442165.04	22442165.16	22442165.31	0.0089	0.0070
Venus	56733-01-29 04:48 G	22442390.57	22442390.70	22442390.87	0.0089	0.0064
Venus	56733-09-11 18:29 G	22442616.10	22442616.27	22442616.44	0.0089	0.0057
Venus	56734-04-25 07:26 G	22442841.64	22442841.81	22442842.00	0.0089	0.0050
Venus	56734-12-06 20:24 G	22443067.18	22443067.35	22443067.56	0.0089	0.0044
Venus	56735-07-20 09:50 G	22443292.72	22443292.91	22443293.12	0.0089	0.0037
Venus	56736-03-01 22:48 G	22443518.26	22443518.45	22443518.67	0.0089	0.0032
Venus	56736-10-13 12:14 G	22443743.80	22443744.01	22443744.23	0.0089	0.0024
Venus	56737-05-27 01:26 G	22443969.35	22443969.56	22443969.78	0.0089	0.0018
Venus	56738-01-07 14:24 G	22444194.89	22444195.10	22444195.33	0.0089	0.0012
Venus	56738-08-21 03:50 G	22444420.44	22444420.66	22444420.88	0.0089	0.0005
Venus	56739-04-03 17:02 G	22444645.99	22444646.21	22444646.43	0.0089	0.0002
Venus	56739-11-15 06:14 G	22444871.54	22444871.76	22444871.98	0.0089	0.0009
Venus	56740-06-27 19:12 G	22445097.09	22445097.30	22445097.53	0.0089	0.0016
Venus	56741-02-08 08:38 G	22445322.65	22445322.86	22445323.07	0.0089	0.0022
Venus	56741-09-21 21:50 G	22445548.21	22445548.41	22445548.62	0.0089	0.0028
Venus	56742-05-05 10:48 G	22445773.77	22445773.95	22445774.17	0.0089	0.0036
Venus	56742-12-17 00:14 G	22445999.33	22445999.51	22445999.71	0.0089	0.0042
Venus	56743-07-30 13:26 G	22446224.89	22446225.06	22446225.26	0.0089	0.0048
Venus	56744-03-12 02:53 G	22446450.46	22446450.62	22446450.80	0.0089	0.0055

Venus	56744-10-23 15:50 G	22446676.03	22446676.16	22446676.34	0.0089	0.0062
Venus	56745-06-06 05:17 G	22446901.60	22446901.72	22446901.88	0.0089	0.0068
Venus	56746-01-17 18:58 G	22447127.17	22447127.29	22447127.41	0.0089	0.0074
Venus	56746-08-31 07:55 G	22447352.76	22447352.83	22447352.94	0.0090	0.0081
Venus	56747-04-13 21:22 G	22447578.35	22447578.39	22447578.46	0.0090	0.0087
Mars	56756-09-20 14:53 G	22451025.78	22451026.12	22451026.47	0.0090	0.0001
Mercury	56788-08-13 11:46 G	22462675.95	22462675.99	22462676.04	0.0089	0.0084
Mercury	56788-11-09 13:12 G	22462763.98	22462764.05	22462764.12	0.0089	0.0075
Mercury	56789-02-05 14:38 G	22462852.03	22462852.11	22462852.20	0.0089	0.0067
Mercury	56789-05-04 16:05 G	22462940.07	22462940.17	22462940.27	0.0089	0.0059
Mercury	56789-07-31 17:31 G	22463028.12	22463028.23	22463028.34	0.0089	0.0052
Mercury	56789-10-27 18:29 G	22463116.17	22463116.27	22463116.40	0.0089	0.0045
Mercury	56790-01-23 19:55 G	22463204.22	22463204.33	22463204.47	0.0089	0.0036
Mercury	56790-04-21 21:22 G	22463292.27	22463292.39	22463292.53	0.0089	0.0028
Mercury	56790-07-18 22:48 G	22463380.33	22463380.45	22463380.59	0.0089	0.0020
Mercury	56790-10-15 00:14 G	22463468.38	22463468.51	22463468.65	0.0089	0.0012
Mercury	56791-01-11 01:41 G	22463556.44	22463556.57	22463556.70	0.0089	0.0004
Mercury	56791-04-09 03:07 G	22463644.49	22463644.63	22463644.76	0.0089	0.0005
Mercury	56791-07-06 04:19 G	22463732.55	22463732.68	22463732.82	0.0089	0.0012
Mercury	56791-10-02 05:31 G	22463820.61	22463820.73	22463820.87	0.0089	0.0020
Mercury	56791-12-29 06:58 G	22463908.67	22463908.79	22463908.92	0.0089	0.0028
Mercury	56792-03-26 08:24 G	22463996.73	22463996.85	22463996.97	0.0089	0.0035
Mercury	56792-06-22 09:36 G	22464084.79	22464084.90	22464085.02	0.0089	0.0043
Mercury	56792-09-18 11:02 G	22464172.85	22464172.96	22464173.07	0.0089	0.0051
Mercury	56792-12-15 12:14 G	22464260.92	22464261.01	22464261.12	0.0089	0.0059
Mercury	56793-03-13 13:26 G	22464348.99	22464349.06	22464349.16	0.0089	0.0067
Mercury	56793-06-09 15:07 G	22464437.06	22464437.13	22464437.20	0.0089	0.0074
Mercury	56793-09-05 16:19 G	22464525.14	22464525.18	22464525.23	0.0089	0.0082
Earth	56799-03-22 14:38 G	22466549.04	22466549.11	22466549.24	0.0089	0.0082
Moon	56799-03-22 17:02 G	22466549.19	22466549.21	22466549.29	0.0089	0.0087 *

Moon	56800-03-23 23:31 G	22466916.27	22466916.48	22466916.71	0.0089	0.0047
Earth	56800-03-24 02:53 G	22466916.43	22466916.62	22466916.85	0.0089	0.0052 *
Earth	56801-03-26 14:53 G	22467283.88	22467284.12	22467284.38	0.0089	0.0022
Moon	56801-03-26 18:29 G	22467284.03	22467284.27	22467284.52	0.0089	0.0026 *
Moon	56802-03-28 23:31 G	22467651.24	22467651.48	22467651.74	0.0089	0.0014
Earth	56802-03-29 03:22 G	22467651.38	22467651.64	22467651.90	0.0089	0.0009 *
Earth	56803-03-31 15:07 G	22468018.91	22468019.13	22468019.37	0.0089	0.0039
Moon	56803-03-31 18:00 G	22468019.01	22468019.25	22468019.50	0.0089	0.0034 *
Moon	56804-04-02 00:58 G	22468386.42	22468386.54	22468386.70	0.0089	0.0074
Earth	56804-04-02 03:07 G	22468386.47	22468386.63	22468386.80	0.0089	0.0069 *
Venus	56812-02-14 20:53 G	22471261.33	22471261.37	22471261.47	0.0088	0.0084
Venus	56812-09-27 10:34 G	22471486.83	22471486.94	22471487.04	0.0088	0.0077
Venus	56813-05-10 23:17 G	22471712.34	22471712.47	22471712.60	0.0088	0.0071
Venus	56813-12-22 12:00 G	22471937.86	22471938.00	22471938.16	0.0088	0.0065
Venus	56814-08-05 00:43 G	22472163.38	22472163.53	22472163.71	0.0088	0.0059
Venus	56815-03-18 13:41 G	22472388.91	22472389.07	22472389.26	0.0088	0.0052
Venus	56815-10-30 02:24 G	22472614.43	22472614.60	22472614.81	0.0088	0.0046
Venus	56816-06-11 15:36 G	22472839.96	22472840.15	22472840.35	0.0088	0.0040
Venus	56817-01-23 04:19 G	22473065.49	22473065.68	22473065.90	0.0088	0.0034
Venus	56817-09-05 17:17 G	22473291.02	22473291.22	22473291.44	0.0088	0.0027
Venus	56818-04-19 06:00 G	22473516.55	22473516.75	22473516.98	0.0088	0.0021
Venus	56818-11-30 19:12 G	22473742.08	22473742.30	22473742.52	0.0088	0.0014
Venus	56819-07-14 07:55 G	22473967.61	22473967.83	22473968.05	0.0088	0.0008
Venus	56820-02-24 21:07 G	22474193.16	22474193.38	22474193.60	0.0088	0.0002
Venus	56820-10-07 09:50 G	22474418.69	22474418.91	22474419.13	0.0088	0.0005
Venus	56821-05-20 22:34 G	22474644.23	22474644.44	22474644.67	0.0088	0.0011
Venus	56822-01-01 11:31 G	22474869.76	22474869.98	22474870.20	0.0088	0.0017
Venus	56822-08-15 00:00 G	22475095.30	22475095.50	22475095.73	0.0088	0.0024
Venus	56823-03-28 12:58 G	22475320.85	22475321.04	22475321.26	0.0088	0.0030
Venus	56823-11-09 01:55 G	22475546.39	22475546.58	22475546.79	0.0088	0.0036

Venus	56824-06-21 14:38 G	22475771.93	22475772.11	22475772.31	0.0088	0.0042
Venus	56825-02-02 03:07 G	22475997.47	22475997.63	22475997.84	0.0088	0.0049
Venus	56825-09-15 16:05 G	22476223.01	22476223.17	22476223.36	0.0088	0.0055
Venus	56826-04-29 04:48 G	22476448.56	22476448.70	22476448.87	0.0088	0.0061
Venus	56826-12-10 17:31 G	22476674.10	22476674.23	22476674.39	0.0088	0.0067
Venus	56827-07-24 06:14 G	22476899.65	22476899.76	22476899.90	0.0088	0.0073
Venus	56828-03-05 18:58 G	22477125.22	22477125.29	22477125.41	0.0088	0.0079
Venus	56828-10-17 07:41 G	22477350.79	22477350.82	22477350.90	0.0088	0.0085
Mars	56838-07-07 17:02 G	22480900.93	22480901.21	22480901.51	0.0088	0.0014
Mercury	56872-07-14 12:14 G	22493327.01	22493327.01	22493327.01	0.0088	0.0088
Mercury	56872-10-10 15:22 G	22493415.06	22493415.14	22493415.24	0.0088	0.0078
Mercury	56873-01-06 18:58 G	22493503.17	22493503.29	22493503.42	0.0088	0.0067
Mercury	56873-04-04 22:05 G	22493591.29	22493591.42	22493591.58	0.0088	0.0056
Mercury	56873-07-02 01:26 G	22493679.41	22493679.56	22493679.74	0.0088	0.0046
Mercury	56873-09-28 05:02 G	22493767.54	22493767.71	22493767.90	0.0088	0.0034
Mercury	56873-12-25 08:24 G	22493855.68	22493855.85	22493856.05	0.0088	0.0024
Mercury	56874-03-23 12:00 G	22493943.82	22493944.00	22493944.20	0.0088	0.0012
Mercury	56874-06-19 15:36 G	22494031.96	22494032.15	22494032.34	0.0088	0.0001
Mercury	56874-09-15 18:58 G	22494120.10	22494120.29	22494120.49	0.0088	0.0010
Mercury	56874-12-12 22:19 G	22494208.25	22494208.43	22494208.63	0.0088	0.0021
Mercury	56875-03-11 01:41 G	22494296.40	22494296.57	22494296.76	0.0088	0.0033
Mercury	56875-06-07 05:17 G	22494384.56	22494384.72	22494384.90	0.0088	0.0043
Mercury	56875-09-03 08:38 G	22494472.72	22494472.86	22494473.03	0.0088	0.0055
Mercury	56875-11-30 12:14 G	22494560.89	22494561.01	22494561.15	0.0088	0.0066
Mercury	56876-02-26 15:50 G	22494649.07	22494649.16	22494649.26	0.0088	0.0077
Mercury	56876-05-24 19:26 G	22494737.30	22494737.31	22494737.33	0.0088	0.0088
Earth	56882-09-24 05:02 G	22497050.59	22497050.71	22497050.84	0.0089	0.0077
Moon	56882-09-24 08:10 G	22497050.73	22497050.84	22497051.01	0.0089	0.0074 *
Moon	56883-09-26 13:12 G	22497417.85	22497418.05	22497418.26	0.0089	0.0050
Earth	56883-09-26 16:34 G	22497417.98	22497418.19	22497418.41	0.0089	0.0047 *

Earth	56884-09-28 04:05 G	22497785.42	22497785.67	22497785.92	0.0089	0.0017
Moon	56884-09-28 06:43 G	22497785.52	22497785.78	22497786.04	0.0089	0.0014 *
Jupiter	56884-10-06 22:19 G	22497794.28	22497794.43	22497794.62	0.0089	0.0084
Moon	56885-09-30 13:12 G	22498152.81	22498153.05	22498153.31	0.0089	0.0010
Earth	56885-09-30 15:22 G	22498152.89	22498153.14	22498153.40	0.0089	0.0013 *
Earth	56886-10-03 02:38 G	22498520.39	22498520.61	22498520.84	0.0089	0.0043
Moon	56886-10-03 03:07 G	22498520.41	22498520.63	22498520.86	0.0089	0.0046 *
Earth	56887-10-05 13:41 G	22498887.94	22498888.07	22498888.23	0.0089	0.0073
Moon	56887-10-05 14:10 G	22498887.96	22498888.09	22498888.26	0.0089	0.0071 *
Venus	56894-11-12 11:02 G	22501482.94	22501482.96	22501483.03	0.0089	0.0087
Venus	56895-06-26 00:00 G	22501708.44	22501708.50	22501708.62	0.0089	0.0081
Venus	56896-02-06 13:41 G	22501933.96	22501934.07	22501934.20	0.0089	0.0075
Venus	56896-09-19 02:38 G	22502159.49	22502159.61	22502159.77	0.0089	0.0068
Venus	56897-05-02 15:50 G	22502385.02	22502385.16	22502385.33	0.0089	0.0062
Venus	56897-12-14 05:17 G	22502610.55	22502610.72	22502610.89	0.0089	0.0056
Venus	56898-07-27 18:14 G	22502836.09	22502836.26	22502836.46	0.0089	0.0050
Venus	56899-03-10 07:26 G	22503061.64	22503061.81	22503062.02	0.0089	0.0043
Venus	56899-10-21 20:53 G	22503287.18	22503287.37	22503287.58	0.0089	0.0036
Venus	56900-06-04 09:50 G	22503512.72	22503512.91	22503513.13	0.0089	0.0030
Venus	56901-01-15 23:17 G	22503738.26	22503738.47	22503738.68	0.0089	0.0023
Venus	56901-08-29 12:29 G	22503963.81	22503964.02	22503964.24	0.0089	0.0017
Venus	56902-04-12 01:41 G	22504189.36	22504189.57	22504189.79	0.0089	0.0011
Venus	56902-11-23 14:53 G	22504414.90	22504415.12	22504415.34	0.0089	0.0004
Venus	56903-07-07 04:05 G	22504640.45	22504640.67	22504640.89	0.0089	0.0003
Venus	56904-02-17 17:17 G	22504866.00	22504866.22	22504866.44	0.0089	0.0009
Venus	56904-09-30 06:29 G	22505091.56	22505091.77	22505091.99	0.0089	0.0016
Venus	56905-05-13 19:26 G	22505317.11	22505317.31	22505317.53	0.0089	0.0023
Venus	56905-12-25 08:53 G	22505542.66	22505542.87	22505543.08	0.0089	0.0029
Venus	56906-08-07 21:50 G	22505768.22	22505768.41	22505768.63	0.0089	0.0036
Venus	56907-03-21 11:17 G	22505993.78	22505993.97	22505994.17	0.0089	0.0042

Venus	56907-11-02 00:14 G	22506219.35	22506219.51	22506219.72	0.0089	0.0049
Venus	56908-06-14 13:41 G	22506444.91	22506445.07	22506445.26	0.0089	0.0055
Venus	56909-01-26 02:38 G	22506670.48	22506670.61	22506670.80	0.0089	0.0062
Venus	56909-09-08 16:19 G	22506896.05	22506896.18	22506896.34	0.0089	0.0068
Venus	56910-04-22 05:46 G	22507121.63	22507121.74	22507121.87	0.0089	0.0074
Venus	56910-12-03 18:43 G	22507347.21	22507347.28	22507347.40	0.0089	0.0081
Venus	56911-07-17 08:10 G	22507572.81	22507572.84	22507572.91	0.0089	0.0087
Mars	56920-05-04 23:17 G	22510787.25	22510787.47	22510787.75	0.0090	0.0061
Mars	56922-04-01 13:26 G	22511484.06	22511484.06	22511484.07	0.0090	0.0090
Mercury	56953-02-12 10:05 G	22522758.91	22522758.92	22522758.96	0.0089	0.0087
Mercury	56953-05-11 11:31 G	22522846.93	22522846.98	22522847.05	0.0089	0.0079
Mercury	56953-08-07 12:58 G	22522934.97	22522935.04	22522935.13	0.0089	0.0071
Mercury	56953-11-03 14:24 G	22523023.01	22523023.10	22523023.20	0.0089	0.0063
Mercury	56954-01-30 15:50 G	22523111.06	22523111.16	22523111.27	0.0089	0.0055
Mercury	56954-04-28 17:17 G	22523199.11	22523199.22	22523199.34	0.0089	0.0047
Mercury	56954-07-25 18:43 G	22523287.16	22523287.28	22523287.40	0.0089	0.0039
Mercury	56954-10-21 20:10 G	22523375.21	22523375.34	22523375.46	0.0089	0.0031
Mercury	56955-01-17 21:22 G	22523463.26	22523463.39	22523463.52	0.0089	0.0023
Mercury	56955-04-15 22:48 G	22523551.32	22523551.45	22523551.58	0.0089	0.0015
Mercury	56955-07-13 00:14 G	22523639.37	22523639.51	22523639.64	0.0089	0.0008
Mercury	56955-10-09 01:26 G	22523727.43	22523727.56	22523727.70	0.0089	0.0003
Mercury	56956-01-05 02:53 G	22523815.49	22523815.62	22523815.75	0.0089	0.0008
Mercury	56956-04-02 04:19 G	22523903.55	22523903.68	22523903.81	0.0089	0.0016
Mercury	56956-06-29 05:31 G	22523991.61	22523991.73	22523991.86	0.0089	0.0024
Mercury	56956-09-25 06:43 G	22524079.67	22524079.78	22524079.92	0.0089	0.0033
Mercury	56956-12-22 08:10 G	22524167.73	22524167.84	22524167.97	0.0089	0.0040
Mercury	56957-03-20 09:36 G	22524255.79	22524255.90	22524256.01	0.0089	0.0047
Mercury	56957-06-16 10:48 G	22524343.85	22524343.95	22524344.06	0.0089	0.0055
Mercury	56957-09-12 12:14 G	22524431.92	22524432.01	22524432.11	0.0089	0.0063
Mercury	56957-12-09 13:26 G	22524519.99	22524520.06	22524520.15	0.0089	0.0071



Mercury	56958-03-07 14:53 G	22524608.07	22524608.12	22524608.19	0.0089	0.0078
Mercury	56958-06-03 16:05 G	22524696.15	22524696.17	22524696.21	0.0089	0.0086
Earth	56964-03-24 12:29 G	22526816.86	22526817.02	22526817.20	0.0089	0.0066
Moon	56964-03-24 16:19 G	22526817.01	22526817.18	22526817.36	0.0089	0.0065 *
Moon	56965-03-26 21:50 G	22527184.18	22527184.41	22527184.64	0.0089	0.0037
Earth	56965-03-27 00:43 G	22527184.30	22527184.53	22527184.77	0.0089	0.0036 *
Earth	56966-03-29 12:43 G	22527551.77	22527552.03	22527552.29	0.0089	0.0006
Moon	56966-03-29 15:22 G	22527551.88	22527552.14	22527552.41	0.0089	0.0006 *
Moon	56967-03-31 23:17 G	22527919.24	22527919.47	22527919.72	0.0089	0.0024
Earth	56967-04-01 00:29 G	22527919.28	22527919.52	22527919.78	0.0089	0.0025 *
Moon	56968-04-02 12:29 G	22528286.81	22528287.02	22528287.23	0.0089	0.0055
Earth	56968-04-02 12:14 G	22528286.82	22528287.01	22528287.23	0.0089	0.0055 *
Earth	56969-04-05 00:00 G	22528654.45	22528654.50	22528654.60	0.0089	0.0085
Moon	56969-04-05 01:26 G	22528654.49	22528654.56	22528654.62	0.0089	0.0085 *
Venus	56975-10-06 19:12 G	22531030.29	22531030.30	22531030.34	0.0088	0.0088
Venus	56976-05-19 08:10 G	22531255.77	22531255.84	22531255.94	0.0088	0.0082
Venus	56976-12-30 21:07 G	22531481.28	22531481.38	22531481.51	0.0088	0.0076
Venus	56977-08-13 10:05 G	22531706.80	22531706.92	22531707.07	0.0088	0.0070
Venus	56978-03-26 23:02 G	22531932.32	22531932.46	22531932.63	0.0088	0.0063
Venus	56978-11-07 11:46 G	22532157.84	22532157.99	22532158.18	0.0088	0.0058
Venus	56979-06-21 00:43 G	22532383.37	22532383.53	22532383.73	0.0088	0.0051
Venus	56980-02-01 13:41 G	22532608.90	22532609.07	22532609.28	0.0088	0.0045
Venus	56980-09-14 02:53 G	22532834.43	22532834.62	22532834.82	0.0088	0.0039
Venus	56981-04-27 15:36 G	22533059.95	22533060.15	22533060.36	0.0088	0.0032
Venus	56981-12-09 04:19 G	22533285.48	22533285.68	22533285.90	0.0088	0.0026
Venus	56982-07-22 17:17 G	22533511.01	22533511.22	22533511.44	0.0088	0.0020
Venus	56983-03-05 06:29 G	22533736.55	22533736.77	22533736.99	0.0088	0.0014
Venus	56983-10-16 19:12 G	22533962.08	22533962.30	22533962.52	0.0088	0.0007
Venus	56984-05-29 08:10 G	22534187.62	22534187.84	22534188.06	0.0088	0.0001
Venus	56985-01-09 20:53 G	22534413.15	22534413.37	22534413.59	0.0088	0.0005

Venus	56985-08-23 09:36 G	22534638.69	22534638.90	22534639.13	0.0088	0.0012
Venus	56986-04-05 22:34 G	22534864.23	22534864.44	22534864.67	0.0088	0.0018
Venus	56986-11-17 11:31 G	22535089.77	22535089.98	22535090.20	0.0088	0.0024
Venus	56987-07-01 00:29 G	22535315.31	22535315.52	22535315.73	0.0088	0.0030
Venus	56988-02-11 12:58 G	22535540.86	22535541.04	22535541.26	0.0088	0.0037
Venus	56988-09-24 01:55 G	22535766.40	22535766.58	22535766.78	0.0088	0.0043
Venus	56989-05-07 14:38 G	22535991.94	22535992.11	22535992.31	0.0088	0.0049
Venus	56989-12-19 03:22 G	22536217.48	22536217.64	22536217.83	0.0088	0.0055
Venus	56990-08-01 16:05 G	22536443.03	22536443.17	22536443.35	0.0088	0.0061
Venus	56991-03-15 05:02 G	22536668.59	22536668.71	22536668.87	0.0088	0.0067
Venus	56991-10-26 17:46 G	22536894.14	22536894.24	22536894.38	0.0088	0.0073
Venus	56992-06-08 06:29 G	22537119.69	22537119.77	22537119.88	0.0088	0.0079
Venus	56993-01-19 18:58 G	22537345.26	22537345.29	22537345.37	0.0088	0.0085

# 58TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 58th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	57002-02-22 12:00 G	22540664.79	22540665.00	22540665.21	0.0088	0.0060		
Mars	57004-01-16 22:19 G	22541358.22	22541358.43	22541358.66	0.0088	0.0057		
Mercury	57037-04-12 10:19 G	22553497.89	22553497.93	22553498.01	0.0088	0.0084		
Mercury	57037-07-09 13:55 G	22553585.99	22553586.08	22553586.20	0.0088	0.0072		
Mercury	57037-10-05 17:31 G	22553674.10	22553674.23	22553674.37	0.0088	0.0061		

Mercury	57038-01-01 20:53 G	22553762.22	22553762.37	22553762.53	0.0088	0.0051
Mercury	57038-03-31 00:00 G	22553850.35	22553850.50	22553850.69	0.0088	0.0040
Mercury	57038-06-27 03:36 G	22553938.48	22553938.65	22553938.84	0.0088	0.0029
Mercury	57038-09-23 06:58 G	22554026.61	22554026.79	22554026.99	0.0088	0.0019
Mercury	57038-12-20 10:34 G	22554114.75	22554114.94	22554115.14	0.0088	0.0007
Mercury	57039-03-18 14:10 G	22554202.90	22554203.09	22554203.28	0.0088	0.0004
Mercury	57039-06-14 17:31 G	22554291.04	22554291.23	22554291.42	0.0088	0.0015
Mercury	57039-09-10 20:53 G	22554379.19	22554379.37	22554379.56	0.0088	0.0026
Mercury	57039-12-08 00:14 G	22554467.35	22554467.51	22554467.70	0.0088	0.0038
Mercury	57040-03-05 03:50 G	22554555.51	22554555.66	22554555.83	0.0088	0.0048
Mercury	57040-06-01 07:12 G	22554643.67	22554643.80	22554643.95	0.0088	0.0060
Mercury	57040-08-28 10:48 G	22554731.84	22554731.95	22554732.07	0.0088	0.0071
Mercury	57040-11-24 13:55 G	22554820.03	22554820.08	22554820.17	0.0088	0.0083
Moon	57046-09-25 12:00 G	22556950.98	22556951.00	22556951.02	0.0089	0.0088
Earth	57047-09-28 01:55 G	22557318.42	22557318.58	22557318.79	0.0089	0.0062
Moon	57047-09-28 04:19 G	22557318.53	22557318.68	22557318.88	0.0089	0.0066 *
Moon	57048-09-29 12:43 G	22557685.80	22557686.03	22557686.27	0.0089	0.0028
Earth	57048-09-29 13:26 G	22557685.84	22557686.06	22557686.32	0.0089	0.0032 *
Earth	57049-10-02 01:12 G	22558053.29	22558053.55	22558053.80	0.0089	0.0002
Moon	57049-10-02 01:26 G	22558053.29	22558053.56	22558053.83	0.0089	0.0005 *
Earth	57050-10-04 12:14 G	22558420.78	22558421.01	22558421.26	0.0089	0.0029
Moon	57050-10-04 13:26 G	22558420.84	22558421.06	22558421.30	0.0089	0.0033 *
Jupiter	57050-12-08 17:17 G	22558485.69	22558486.22	22558486.79	0.0089	0.0009
Moon	57051-10-06 20:53 G	22558788.19	22558788.37	22558788.60	0.0089	0.0055
Earth	57051-10-06 23:31 G	22558788.31	22558788.48	22558788.69	0.0089	0.0059 *
Earth	57052-10-08 11:02 G	22559155.96	22559155.96	22559155.98	0.0089	0.0089
Venus	57059-02-15 22:19 G	22561477.38	22561477.43	22561477.50	0.0089	0.0085
Venus	57059-09-29 11:17 G	22561702.89	22561702.97	22561703.09	0.0089	0.0080
Venus	57060-05-12 00:29 G	22561928.41	22561928.52	22561928.66	0.0089	0.0073
Venus	57060-12-23 13:26 G	22562153.93	22562154.06	22562154.22	0.0089	0.0067

Venus	57061-08-06 02:38 G	22562379.47	22562379.61	22562379.79	0.0089	0.0061
Venus	57062-03-19 16:05 G	22562605.01	22562605.17	22562605.35	0.0089	0.0054
Venus	57062-10-31 05:02 G	22562830.54	22562830.71	22562830.91	0.0089	0.0049
Venus	57063-06-13 18:14 G	22563056.08	22563056.26	22563056.47	0.0089	0.0042
Venus	57064-01-25 07:41 G	22563281.62	22563281.82	22563282.03	0.0089	0.0035
Venus	57064-09-06 20:53 G	22563507.17	22563507.37	22563507.59	0.0089	0.0029
Venus	57065-04-20 10:19 G	22563732.72	22563732.93	22563733.14	0.0089	0.0022
Venus	57065-12-01 23:17 G	22563958.26	22563958.47	22563958.69	0.0089	0.0016
Venus	57066-07-15 12:43 G	22564183.81	22564184.03	22564184.25	0.0089	0.0010
Venus	57067-02-26 01:55 G	22564409.36	22564409.58	22564409.80	0.0089	0.0003
Venus	57067-10-09 15:07 G	22564634.91	22564635.13	22564635.35	0.0089	0.0003
Venus	57068-05-22 04:05 G	22564860.46	22564860.67	22564860.89	0.0089	0.0010
Venus	57069-01-02 17:17 G	22565086.01	22565086.22	22565086.44	0.0089	0.0016
Venus	57069-08-16 06:29 G	22565311.57	22565311.77	22565311.99	0.0089	0.0023
Venus	57070-03-29 19:26 G	22565537.12	22565537.31	22565537.54	0.0089	0.0030
Venus	57070-11-10 08:53 G	22565762.67	22565762.87	22565763.08	0.0089	0.0036
Venus	57071-06-23 22:05 G	22565988.23	22565988.42	22565988.62	0.0089	0.0042
Venus	57072-02-04 11:02 G	22566213.79	22566213.96	22566214.16	0.0089	0.0049
Venus	57072-09-17 00:29 G	22566439.36	22566439.52	22566439.70	0.0089	0.0055
Venus	57073-04-30 13:26 G	22566664.92	22566665.06	22566665.24	0.0089	0.0062
Venus	57073-12-12 02:38 G	22566890.49	22566890.61	22566890.78	0.0089	0.0068
Venus	57074-07-25 16:05 G	22567116.06	22567116.17	22567116.31	0.0089	0.0074
Venus	57075-03-08 05:31 G	22567341.65	22567341.73	22567341.84	0.0089	0.0080
Venus	57075-10-19 18:29 G	22567567.24	22567567.27	22567567.36	0.0089	0.0087
Mars	57085-11-13 20:10 G	22571245.03	22571245.34	22571245.68	0.0090	0.0029
Mercury	57117-11-11 09:50 G	22582929.88	22582929.91	22582929.97	0.0089	0.0084
Mercury	57118-02-07 11:17 G	22583017.91	22583017.97	22583018.05	0.0089	0.0076
Mercury	57118-05-06 12:43 G	22583105.95	22583106.03	22583106.13	0.0089	0.0067
Mercury	57118-08-02 14:10 G	22583194.00	22583194.09	22583194.20	0.0089	0.0059
Mercury	57118-10-29 15:36 G	22583282.05	22583282.15	22583282.26	0.0089	0.0051

Mercury	57119-01-25 17:02 G	22583370.10	22583370.21	22583370.33	0.0089	0.0043
Mercury	57119-04-23 18:29 G	22583458.15	22583458.27	22583458.39	0.0089	0.0035
Mercury	57119-07-20 19:55 G	22583546.20	22583546.33	22583546.46	0.0089	0.0027
Mercury	57119-10-16 21:07 G	22583634.25	22583634.38	22583634.52	0.0089	0.0020
Mercury	57120-01-12 22:34 G	22583722.31	22583722.44	22583722.57	0.0089	0.0012
Mercury	57120-04-10 00:00 G	22583810.36	22583810.50	22583810.63	0.0089	0.0004
Mercury	57120-07-07 01:12 G	22583898.42	22583898.55	22583898.69	0.0089	0.0005
Mercury	57120-10-03 02:38 G	22583986.48	22583986.61	22583986.74	0.0089	0.0012
Mercury	57120-12-30 04:05 G	22584074.54	22584074.67	22584074.80	0.0089	0.0020
Mercury	57121-03-28 05:17 G	22584162.60	22584162.72	22584162.85	0.0089	0.0028
Mercury	57121-06-24 06:29 G	22584250.66	22584250.77	22584250.90	0.0089	0.0036
Mercury	57121-09-20 08:10 G	22584338.72	22584338.84	22584338.95	0.0089	0.0043
Mercury	57121-12-17 09:22 G	22584426.79	22584426.89	22584427.00	0.0089	0.0051
Mercury	57122-03-15 10:34 G	22584514.85	22584514.94	22584515.05	0.0089	0.0059
Mercury	57122-06-11 11:46 G	22584602.92	22584602.99	22584603.09	0.0089	0.0067
Mercury	57122-09-07 13:26 G	22584690.99	22584691.06	22584691.13	0.0089	0.0074
Mercury	57122-12-04 14:38 G	22584779.07	22584779.11	22584779.17	0.0089	0.0082
Moon	57128-03-25 18:29 G	22586717.23	22586717.27	22586717.37	0.0089	0.0086
Earth	57128-03-25 21:36 G	22586717.32	22586717.40	22586717.53	0.0089	0.0081 *
Earth	57129-03-28 09:36 G	22587084.71	22587084.90	22587085.14	0.0089	0.0051
Moon	57129-03-28 11:46 G	22587084.76	22587084.99	22587085.22	0.0089	0.0046 *
Moon	57130-03-30 21:07 G	22587452.15	22587452.38	22587452.63	0.0089	0.0025
Earth	57130-03-30 22:05 G	22587452.17	22587452.42	22587452.68	0.0089	0.0020 *
Moon	57131-04-02 09:36 G	22587819.64	22587819.90	22587820.17	0.0089	0.0015
Earth	57131-04-02 10:05 G	22587819.67	22587819.92	22587820.18	0.0089	0.0010 *
Earth	57132-04-03 21:36 G	22588187.19	22588187.40	22588187.65	0.0089	0.0041
Moon	57132-04-03 23:31 G	22588187.27	22588187.48	22588187.73	0.0089	0.0037 *
Moon	57133-04-06 07:12 G	22588554.68	22588554.80	22588554.96	0.0089	0.0075
Earth	57133-04-06 09:36 G	22588554.77	22588554.90	22588555.08	0.0089	0.0071 *
Venus	57140-01-10 05:46 G	22591024.72	22591024.74	22591024.81	0.0088	0.0087

Venus	57140-08-22 18:43 G	22591250.22	22591250.28	22591250.40	0.0088	0.0081
Venus	57141-04-05 07:41 G	22591475.73	22591475.82	22591475.96	0.0088	0.0075
Venus	57141-11-16 20:38 G	22591701.24	22591701.36	22591701.52	0.0088	0.0069
Venus	57142-06-30 09:36 G	22591926.77	22591926.90	22591927.08	0.0088	0.0063
Venus	57143-02-10 22:48 G	22592152.30	22592152.45	22592152.64	0.0088	0.0056
Venus	57143-09-24 11:31 G	22592377.82	22592377.98	22592378.19	0.0088	0.0051
Venus	57144-05-07 00:58 G	22592603.35	22592603.54	22592603.73	0.0088	0.0044
Venus	57144-12-18 13:41 G	22592828.87	22592829.07	22592829.27	0.0088	0.0037
Venus	57145-08-01 02:24 G	22593054.40	22593054.60	22593054.81	0.0088	0.0031
Venus	57146-03-14 15:22 G	22593279.94	22593280.14	22593280.36	0.0088	0.0025
Venus	57146-10-26 04:19 G	22593505.47	22593505.68	22593505.90	0.0088	0.0019
Venus	57147-06-08 17:02 G	22593731.00	22593731.21	22593731.43	0.0088	0.0013
Venus	57148-01-20 06:00 G	22593956.53	22593956.75	22593956.97	0.0088	0.0007
Venus	57148-09-01 18:43 G	22594182.06	22594182.28	22594182.51	0.0088	0.0002
Venus	57149-04-15 07:41 G	22594407.60	22594407.82	22594408.04	0.0088	0.0006
Venus	57149-11-26 20:24 G	22594633.14	22594633.35	22594633.57	0.0088	0.0012
Venus	57150-07-10 09:22 G	22594858.67	22594858.89	22594859.10	0.0088	0.0018
Venus	57151-02-20 22:19 G	22595084.22	22595084.43	22595084.64	0.0088	0.0024
Venus	57151-10-04 10:48 G	22595309.76	22595309.95	22595310.17	0.0088	0.0031
Venus	57152-05-16 23:31 G	22595535.30	22595535.48	22595535.70	0.0088	0.0037
Venus	57152-12-28 12:29 G	22595760.84	22595761.02	22595761.22	0.0088	0.0043
Venus	57153-08-11 01:12 G	22595986.38	22595986.55	22595986.75	0.0088	0.0049
Venus	57154-03-24 14:10 G	22596211.94	22596212.09	22596212.28	0.0088	0.0055
Venus	57154-11-05 03:07 G	22596437.48	22596437.63	22596437.80	0.0088	0.0061
Venus	57155-06-18 15:50 G	22596663.03	22596663.16	22596663.31	0.0088	0.0067
Venus	57156-01-30 04:34 G	22596888.58	22596888.69	22596888.83	0.0088	0.0073
Venus	57156-09-11 17:17 G	22597114.14	22597114.22	22597114.33	0.0088	0.0079
Venus	57157-04-25 06:00 G	22597339.72	22597339.75	22597339.83	0.0088	0.0085
Mars	57167-09-02 16:05 G	22601121.89	22601122.17	22601122.46	0.0088	0.0010
Mercury	57202-01-08 08:53 G	22613668.80	22613668.87	22613668.98	0.0088	0.0079

Mercury	57202-04-06 12:29 G	22613756.91	22613757.02	22613757.15	0.0088	0.0067
Mercury	57202-07-03 15:50 G	22613845.03	22613845.16	22613845.32	0.0088	0.0057
Mercury	57202-09-29 19:26 G	22613933.15	22613933.31	22613933.47	0.0088	0.0046
Mercury	57202-12-26 22:34 G	22614021.28	22614021.44	22614021.63	0.0088	0.0035
Mercury	57203-03-25 02:10 G	22614109.41	22614109.59	22614109.78	0.0088	0.0024
Mercury	57203-06-21 05:31 G	22614197.55	22614197.73	22614197.93	0.0088	0.0013
Mercury	57203-09-17 09:07 G	22614285.69	22614285.88	22614286.07	0.0088	0.0002
Mercury	57203-12-14 12:29 G	22614373.83	22614374.02	22614374.22	0.0088	0.0009
Mercury	57204-03-11 15:50 G	22614461.98	22614462.16	22614462.36	0.0088	0.0020
Mercury	57204-06-07 19:12 G	22614550.13	22614550.30	22614550.49	0.0088	0.0032
Mercury	57204-09-03 22:48 G	22614638.29	22614638.45	22614638.63	0.0088	0.0042
Mercury	57204-12-01 02:10 G	22614726.45	22614726.59	22614726.75	0.0088	0.0054
Mercury	57205-02-27 05:46 G	22614814.62	22614814.74	22614814.88	0.0088	0.0065
Mercury	57205-05-26 09:22 G	22614902.80	22614902.89	22614902.99	0.0088	0.0076
Mercury	57205-08-22 12:58 G	22614991.01	22614991.04	22614991.07	0.0088	0.0087
Moon	57211-09-28 10:48 G	22617218.84	22617218.95	22617219.10	0.0089	0.0075
Earth	57211-09-28 11:31 G	22617218.88	22617218.98	22617219.13	0.0089	0.0077 *
Moon	57212-09-29 22:05 G	22617586.21	22617586.42	22617586.66	0.0089	0.0048
Earth	57212-09-29 23:02 G	22617586.25	22617586.46	22617586.69	0.0089	0.0047 *
Earth	57213-10-02 10:19 G	22617953.68	22617953.93	22617954.19	0.0089	0.0017
Moon	57213-10-02 11:46 G	22617953.76	22617953.99	22617954.25	0.0089	0.0015 *
Moon	57214-10-04 18:43 G	22618321.03	22618321.28	22618321.55	0.0089	0.0012
Earth	57214-10-04 21:36 G	22618321.16	22618321.40	22618321.66	0.0089	0.0014 *
Earth	57215-10-07 08:38 G	22618688.66	22618688.86	22618689.10	0.0089	0.0044
Moon	57215-10-07 12:14 G	22618688.81	22618689.01	22618689.24	0.0089	0.0046 *
Moon	57216-10-08 16:48 G	22619056.06	22619056.20	22619056.36	0.0089	0.0071
Earth	57216-10-08 19:55 G	22619056.21	22619056.33	22619056.50	0.0089	0.0074 *
Venus	57223-05-21 08:38 G	22621471.81	22621471.86	22621471.95	0.0089	0.0084
Venus	57224-01-01 21:36 G	22621697.32	22621697.40	22621697.52	0.0089	0.0078
Venus	57224-08-14 10:48 G	22621922.84	22621922.95	22621923.10	0.0089	0.0072

Venus	57225-03-27 23:46 G	22622148.37	22622148.49	22622148.66	0.0089	0.0067
Venus	57225-11-08 12:58 G	22622373.90	22622374.04	22622374.22	0.0089	0.0060
Venus	57226-06-22 02:24 G	22622599.43	22622599.60	22622599.78	0.0089	0.0053
Venus	57227-02-02 15:22 G	22622824.97	22622825.14	22622825.34	0.0089	0.0047
Venus	57227-09-16 04:34 G	22623050.51	22623050.69	22623050.90	0.0089	0.0041
Venus	57228-04-28 18:00 G	22623276.05	22623276.25	22623276.46	0.0089	0.0035
Venus	57228-12-10 06:58 G	22623501.59	22623501.79	22623502.01	0.0089	0.0029
Venus	57229-07-23 20:10 G	22623727.14	22623727.34	22623727.57	0.0089	0.0023
Venus	57230-03-06 09:36 G	22623952.69	22623952.90	22623953.12	0.0089	0.0016
Venus	57230-10-17 23:02 G	22624178.24	22624178.46	22624178.68	0.0089	0.0009
Venus	57231-05-31 12:14 G	22624403.79	22624404.01	22624404.23	0.0089	0.0003
Venus	57232-01-12 01:26 G	22624629.34	22624629.56	22624629.78	0.0089	0.0004
Venus	57232-08-24 14:38 G	22624854.90	22624855.11	22624855.33	0.0089	0.0011
Venus	57233-04-07 04:05 G	22625080.45	22625080.67	22625080.88	0.0089	0.0017
Venus	57233-11-18 17:02 G	22625306.00	22625306.21	22625306.43	0.0089	0.0023
Venus	57234-07-02 06:14 G	22625531.56	22625531.76	22625531.97	0.0089	0.0029
Venus	57235-02-12 19:26 G	22625757.11	22625757.31	22625757.52	0.0089	0.0036
Venus	57235-09-26 08:24 G	22625982.68	22625982.85	22625983.06	0.0089	0.0043
Venus	57236-05-08 21:50 G	22626208.24	22626208.41	22626208.60	0.0089	0.0049
Venus	57236-12-20 11:02 G	22626433.80	22626433.96	22626434.14	0.0089	0.0055
Venus	57237-08-03 00:00 G	22626659.36	22626659.50	22626659.68	0.0089	0.0062
Venus	57238-03-16 13:12 G	22626884.93	22626885.05	22626885.22	0.0089	0.0068
Venus	57238-10-28 02:38 G	22627110.50	22627110.61	22627110.75	0.0089	0.0074
Venus	57239-06-10 16:05 G	22627336.08	22627336.17	22627336.28	0.0089	0.0080
Venus	57240-01-22 05:17 G	22627561.67	22627561.72	22627561.79	0.0089	0.0086
Mars	57249-06-28 02:10 G	22631006.29	22631006.59	22631006.92	0.0090	0.0033
Mercury	57282-05-12 08:24 G	22643012.83	22643012.85	22643012.87	0.0089	0.0088
Mercury	57282-08-08 09:50 G	22643100.85	22643100.91	22643100.97	0.0089	0.0080
Mercury	57282-11-04 11:17 G	22643188.89	22643188.97	22643189.05	0.0089	0.0072
Mercury	57283-01-31 12:43 G	22643276.93	22643277.03	22643277.12	0.0089	0.0064



Mercury	57283-04-29 13:55 G	22643364.98	22643365.08	22643365.19	0.0089	0.0056
Mercury	57283-07-26 15:22 G	22643453.03	22643453.14	22643453.26	0.0089	0.0048
Mercury	57283-10-22 16:48 G	22643541.08	22643541.20	22643541.32	0.0089	0.0040
Mercury	57284-01-18 18:00 G	22643629.13	22643629.25	22643629.38	0.0089	0.0032
Mercury	57284-04-15 19:26 G	22643717.19	22643717.31	22643717.45	0.0089	0.0024
Mercury	57284-07-12 20:53 G	22643805.24	22643805.37	22643805.51	0.0089	0.0016
Mercury	57284-10-08 22:19 G	22643893.30	22643893.43	22643893.56	0.0089	0.0008
Mercury	57285-01-04 23:46 G	22643981.35	22643981.49	22643981.62	0.0089	0.0002
Mercury	57285-04-03 00:58 G	22644069.41	22644069.54	22644069.68	0.0089	0.0008
Mercury	57285-06-30 02:24 G	22644157.47	22644157.60	22644157.73	0.0089	0.0016
Mercury	57285-09-26 03:36 G	22644245.53	22644245.65	22644245.79	0.0089	0.0024
Mercury	57285-12-23 05:02 G	22644333.59	22644333.71	22644333.84	0.0089	0.0032
Mercury	57286-03-21 06:29 G	22644421.65	22644421.77	22644421.89	0.0089	0.0039
Mercury	57286-06-17 07:41 G	22644509.71	22644509.82	22644509.94	0.0089	0.0047
Mercury	57286-09-13 08:53 G	22644597.78	22644597.87	22644597.99	0.0089	0.0055
Mercury	57286-12-10 10:19 G	22644685.85	22644685.93	22644686.03	0.0089	0.0063
Mercury	57287-03-08 11:46 G	22644773.91	22644773.99	22644774.07	0.0089	0.0070
Mercury	57287-06-04 12:58 G	22644861.99	22644862.04	22644862.11	0.0089	0.0078
Mercury	57287-08-31 14:10 G	22644950.07	22644950.09	22644950.14	0.0089	0.0086
Earth	57293-03-27 18:00 G	22646985.10	22646985.25	22646985.44	0.0089	0.0066
Moon	57293-03-27 18:43 G	22646985.11	22646985.28	22646985.46	0.0089	0.0063 *
Moon	57294-03-30 05:31 G	22647352.48	22647352.73	22647352.97	0.0089	0.0037
Earth	57294-03-30 06:14 G	22647352.54	22647352.76	22647353.01	0.0089	0.0036 *
Earth	57295-04-01 18:29 G	22647720.01	22647720.27	22647720.53	0.0089	0.0005
Moon	57295-04-01 20:38 G	22647720.11	22647720.36	22647720.61	0.0089	0.0003 *
Moon	57296-04-03 03:07 G	22648087.38	22648087.63	22648087.89	0.0089	0.0023
Earth	57296-04-03 06:29 G	22648087.53	22648087.77	22648088.03	0.0089	0.0026 *
Earth	57297-04-05 18:14 G	22648455.07	22648455.26	22648455.48	0.0089	0.0056
Moon	57297-04-05 21:22 G	22648455.22	22648455.39	22648455.61	0.0089	0.0058 *
Moon	57298-04-08 02:10 G	22648822.54	22648822.59	22648822.69	0.0089	0.0085

Earth	57298-04-08 06:00 G	22648822.71	22648822.75	22648822.83	0.0089	0.0086
Venus	57304-04-13 16:34 G	22651019.14	22651019.19	22651019.26	0.0088	0.0085
Venus	57304-11-25 05:31 G	22651244.64	22651244.73	22651244.84	0.0088	0.0079
Venus	57305-07-08 18:43 G	22651470.16	22651470.28	22651470.40	0.0088	0.0073
Venus	57306-02-19 07:55 G	22651695.68	22651695.83	22651695.97	0.0088	0.0067
Venus	57306-10-02 20:53 G	22651921.21	22651921.37	22651921.53	0.0088	0.0061
Venus	57307-05-16 09:36 G	22652146.73	22652146.90	22652147.08	0.0088	0.0055
Venus	57307-12-27 22:34 G	22652372.26	22652372.44	22652372.63	0.0088	0.0049
Venus	57308-08-09 11:31 G	22652597.79	22652597.98	22652598.17	0.0088	0.0042
Venus	57309-03-23 00:29 G	22652823.32	22652823.52	22652823.72	0.0088	0.0036
Venus	57309-11-03 13:12 G	22653048.85	22653049.05	22653049.27	0.0088	0.0030
Venus	57310-06-17 02:10 G	22653274.38	22653274.59	22653274.81	0.0088	0.0024
Venus	57311-01-28 15:07 G	22653499.92	22653500.13	22653500.35	0.0088	0.0018
Venus	57311-09-11 03:50 G	22653725.45	22653725.66	22653725.89	0.0088	0.0012
Venus	57312-04-23 16:48 G	22653950.98	22653951.20	22653951.42	0.0088	0.0006
Venus	57312-12-05 05:31 G	22654176.51	22654176.73	22654176.95	0.0088	0.0002
Venus	57313-07-18 18:14 G	22654402.05	22654402.26	22654402.49	0.0088	0.0007
Venus	57314-03-01 07:12 G	22654627.59	22654627.80	22654628.03	0.0088	0.0013
Venus	57314-10-12 19:55 G	22654853.12	22654853.33	22654853.56	0.0088	0.0019
Venus	57315-05-26 08:38 G	22655078.66	22655078.86	22655079.08	0.0088	0.0025
Venus	57316-01-06 21:22 G	22655304.20	22655304.39	22655304.61	0.0088	0.0031
Venus	57316-08-19 10:19 G	22655529.74	22655529.93	22655530.14	0.0088	0.0037
Venus	57317-04-01 23:17 G	22655755.28	22655755.47	22655755.67	0.0088	0.0043
Venus	57317-11-13 12:00 G	22655980.83	22655981.00	22655981.19	0.0088	0.0049
Venus	57318-06-27 00:43 G	22656206.37	22656206.53	22656206.71	0.0088	0.0055
Venus	57319-02-07 13:41 G	22656431.92	22656432.07	22656432.24	0.0088	0.0061
Venus	57319-09-21 02:24 G	22656657.47	22656657.60	22656657.75	0.0088	0.0067
Venus	57320-05-03 15:07 G	22656883.02	22656883.13	22656883.27	0.0088	0.0073
Venus	57320-12-15 03:50 G	22657108.58	22657108.66	22657108.77	0.0088	0.0079
Venus	57321-07-28 16:19 G	22657334.15	22657334.18	22657334.27	0.0088	0.0085

Mars	57331-04-19 07:12 G	22660885.56	22660885.80	22660886.08	0.0088	0.0039
Mars	57333-03-12 18:29 G	22661579.19	22661579.27	22661579.43	0.0088	0.0080
Mercury	57366-07-10 04:05 G	22673751.62	22673751.67	22673751.72	0.0088	0.0085
Mercury	57366-10-06 06:58 G	22673839.71	22673839.79	22673839.91	0.0088	0.0075
Mercury	57367-01-02 10:34 G	22673927.82	22673927.94	22673928.08	0.0088	0.0063
Mercury	57367-03-31 13:55 G	22674015.94	22674016.08	22674016.25	0.0088	0.0053
Mercury	57367-06-27 17:31 G	22674104.07	22674104.23	22674104.40	0.0088	0.0042
Mercury	57367-09-23 21:07 G	22674192.20	22674192.38	22674192.55	0.0088	0.0031
Mercury	57367-12-21 00:14 G	22674280.33	22674280.51	22674280.70	0.0088	0.0020
Mercury	57368-03-18 03:50 G	22674368.47	22674368.66	22674368.85	0.0088	0.0009
Mercury	57368-06-14 07:12 G	22674456.61	22674456.80	22674456.99	0.0088	0.0002
Mercury	57368-09-10 10:34 G	22674544.76	22674544.94	22674545.13	0.0088	0.0013
Mercury	57368-12-07 13:55 G	22674632.90	22674633.08	22674633.27	0.0088	0.0024
Mercury	57369-03-05 17:17 G	22674721.06	22674721.22	22674721.41	0.0088	0.0036
Mercury	57369-06-01 20:53 G	22674809.21	22674809.37	22674809.54	0.0088	0.0046
Mercury	57369-08-29 00:14 G	22674897.38	22674897.51	22674897.67	0.0088	0.0058
Mercury	57369-11-25 03:50 G	22674985.55	22674985.66	22674985.79	0.0088	0.0069
Mercury	57370-02-21 07:26 G	22675073.73	22675073.81	22675073.89	0.0088	0.0080
Moon	57375-09-28 19:41 G	22677119.29	22677119.32	22677119.38	0.0089	0.0087
Earth	57376-09-30 07:41 G	22677486.65	22677486.82	22677487.02	0.0089	0.0062
Moon	57376-09-30 10:05 G	22677486.78	22677486.92	22677487.11	0.0089	0.0067 *
Moon	57377-10-02 16:05 G	22677853.93	22677854.17	22677854.43	0.0089	0.0028
Earth	57377-10-02 19:12 G	22677854.07	22677854.30	22677854.55	0.0089	0.0032 *
Earth	57378-10-05 06:43 G	22678221.52	22678221.78	22678222.04	0.0089	0.0002
Moon	57378-10-05 10:19 G	22678221.67	22678221.93	22678222.18	0.0089	0.0006 *
Moon	57379-10-07 14:10 G	22678588.87	22678589.09	22678589.34	0.0089	0.0034
Earth	57379-10-07 17:46 G	22678589.01	22678589.24	22678589.49	0.0089	0.0029 *
Earth	57380-10-09 04:48 G	22678956.53	22678956.70	22678956.91	0.0089	0.0059
Moon	57380-10-09 07:41 G	22678956.64	22678956.82	22678957.05	0.0089	0.0055 *
Earth	57381-10-11 16:19 G	22679324.18	22679324.18	22679324.21	0.0089	0.0089

Venus	57387-01-10 06:14 G	22681240.74	22681240.76	22681240.78	0.0089	0.0088
Venus	57387-08-23 18:43 G	22681466.23	22681466.28	22681466.39	0.0089	0.0083
Venus	57388-04-05 07:55 G	22681691.74	22681691.83	22681691.96	0.0089	0.0077
Venus	57388-11-16 20:53 G	22681917.26	22681917.37	22681917.53	0.0089	0.0071
Venus	57389-06-30 10:34 G	22682142.79	22682142.94	22682143.09	0.0089	0.0065
Venus	57390-02-10 23:31 G	22682368.32	22682368.48	22682368.65	0.0089	0.0058
Venus	57390-09-24 12:29 G	22682593.85	22682594.02	22682594.21	0.0089	0.0052
Venus	57391-05-08 01:26 G	22682819.39	22682819.56	22682819.76	0.0089	0.0047
Venus	57391-12-19 14:38 G	22683044.93	22683045.11	22683045.32	0.0089	0.0040
Venus	57392-08-01 04:05 G	22683270.47	22683270.67	22683270.88	0.0089	0.0034
Venus	57393-03-14 17:17 G	22683496.01	22683496.22	22683496.43	0.0089	0.0027
Venus	57393-10-26 06:14 G	22683721.56	22683721.76	22683721.98	0.0089	0.0021
Venus	57394-06-08 19:26 G	22683947.10	22683947.31	22683947.53	0.0089	0.0015
Venus	57395-01-20 08:38 G	22684172.65	22684172.86	22684173.08	0.0089	0.0009
Venus	57395-09-02 22:05 G	22684398.20	22684398.42	22684398.64	0.0089	0.0002
Venus	57396-04-15 11:17 G	22684623.75	22684623.97	22684624.19	0.0089	0.0004
Venus	57396-11-27 00:29 G	22684849.30	22684849.52	22684849.74	0.0089	0.0011
Venus	57397-07-10 13:26 G	22685074.86	22685075.06	22685075.29	0.0089	0.0018
Venus	57398-02-21 02:53 G	22685300.41	22685300.62	22685300.84	0.0089	0.0023
Venus	57398-10-04 16:19 G	22685525.97	22685526.18	22685526.39	0.0089	0.0030
Venus	57399-05-18 05:02 G	22685751.53	22685751.71	22685751.93	0.0089	0.0037
Venus	57399-12-29 18:29 G	22685977.09	22685977.27	22685977.47	0.0089	0.0042
Venus	57400-08-12 07:41 G	22686202.65	22686202.82	22686203.02	0.0089	0.0049
Venus	57401-03-25 21:07 G	22686428.21	22686428.38	22686428.56	0.0089	0.0055
Venus	57401-11-06 10:34 G	22686653.78	22686653.94	22686654.10	0.0089	0.0061
Venus	57402-06-19 23:02 G	22686879.34	22686879.46	22686879.63	0.0089	0.0068
Venus	57403-01-31 12:14 G	22687104.91	22687105.01	22687105.16	0.0089	0.0074
Venus	57403-09-14 01:41 G	22687330.49	22687330.57	22687330.69	0.0089	0.0080
Venus	57404-04-26 14:53 G	22687556.08	22687556.12	22687556.21	0.0089	0.0086
Mars	57415-01-07 19:55 G	22691464.09	22691464.33	22691464.63	0.0090	0.0056

Mercury	57447-02-08 07:55 G	22703183.79	22703183.83	22703183.87	0.0089	0.0084
Mercury	57447-05-07 09:22 G	22703271.82	22703271.89	22703271.96	0.0089	0.0076
Mercury	57447-08-03 10:34 G	22703359.86	22703359.94	22703360.04	0.0089	0.0069
Mercury	57447-10-30 12:00 G	22703447.91	22703448.00	22703448.11	0.0089	0.0060
Mercury	57448-01-26 13:26 G	22703535.96	22703536.06	22703536.18	0.0089	0.0052
Mercury	57448-04-23 14:53 G	22703624.01	22703624.12	22703624.24	0.0089	0.0044
Mercury	57448-07-20 16:19 G	22703712.06	22703712.18	22703712.31	0.0089	0.0036
Mercury	57448-10-16 17:46 G	22703800.11	22703800.24	22703800.37	0.0089	0.0028
Mercury	57449-01-12 19:12 G	22703888.17	22703888.30	22703888.43	0.0089	0.0020
Mercury	57449-04-10 20:38 G	22703976.22	22703976.36	22703976.49	0.0089	0.0012
Mercury	57449-07-07 22:05 G	22704064.28	22704064.42	22704064.55	0.0089	0.0005
Mercury	57449-10-03 23:17 G	22704152.34	22704152.47	22704152.61	0.0089	0.0004
Mercury	57449-12-31 00:43 G	22704240.40	22704240.53	22704240.66	0.0089	0.0011
Mercury	57450-03-29 02:10 G	22704328.46	22704328.59	22704328.72	0.0089	0.0019
Mercury	57450-06-25 03:22 G	22704416.52	22704416.64	22704416.77	0.0089	0.0027
Mercury	57450-09-21 04:48 G	22704504.58	22704504.70	22704504.82	0.0089	0.0035
Mercury	57450-12-18 06:00 G	22704592.64	22704592.75	22704592.87	0.0089	0.0043
Mercury	57451-03-16 07:12 G	22704680.70	22704680.80	22704680.92	0.0089	0.0051
Mercury	57451-06-12 08:53 G	22704768.77	22704768.87	22704768.97	0.0089	0.0058
Mercury	57451-09-08 10:05 G	22704856.84	22704856.92	22704857.01	0.0089	0.0066
Mercury	57451-12-05 11:17 G	22704944.91	22704944.97	22704945.05	0.0089	0.0074
Mercury	57452-03-02 12:58 G	22705032.99	22705033.04	22705033.09	0.0089	0.0081
Moon	57457-03-29 00:14 G	22706885.45	22706885.51	22706885.61	0.0089	0.0084
Earth	57457-03-29 02:10 G	22706885.51	22706885.59	22706885.72	0.0089	0.0081 *
Earth	57458-03-31 14:10 G	22707252.90	22707253.09	22707253.32	0.0089	0.0051
Moon	57458-03-31 17:31 G	22707253.01	22707253.23	22707253.44	0.0089	0.0047 *
Moon	57459-04-02 23:02 G	22707620.23	22707620.46	22707620.73	0.0089	0.0025
Earth	57459-04-03 02:53 G	22707620.37	22707620.62	22707620.87	0.0089	0.0020 *
Earth	57460-04-04 14:53 G	22707987.86	22707988.12	22707988.38	0.0089	0.0010
Moon	57460-04-04 18:29 G	22707988.02	22707988.27	22707988.53	0.0089	0.0014 *

Moon	57461-04-06 23:31 G	22708355.26	22708355.48	22708355.72	0.0089	0.0037
Earth	57461-04-07 02:24 G	22708355.39	22708355.60	22708355.85	0.0089	0.0041 *
Earth	57462-04-09 14:24 G	22708722.96	22708723.10	22708723.27	0.0089	0.0071
Moon	57462-04-09 17:46 G	22708723.11	22708723.24	22708723.38	0.0089	0.0075 *
Venus	57468-07-17 02:24 G	22711013.55	22711013.60	22711013.69	0.0088	0.0084
Venus	57469-02-27 15:36 G	22711239.06	22711239.15	22711239.27	0.0088	0.0078
Venus	57469-10-11 04:34 G	22711464.58	22711464.69	22711464.83	0.0088	0.0072
Venus	57470-05-24 17:31 G	22711690.09	22711690.23	22711690.39	0.0088	0.0066
Venus	57471-01-05 06:29 G	22711915.62	22711915.77	22711915.94	0.0088	0.0060
Venus	57471-08-18 19:41 G	22712141.15	22712141.32	22712141.49	0.0088	0.0054
Venus	57472-03-31 08:38 G	22712366.68	22712366.86	22712367.05	0.0088	0.0048
Venus	57472-11-11 21:22 G	22712592.20	22712592.39	22712592.59	0.0088	0.0042
Venus	57473-06-25 10:19 G	22712817.74	22712817.93	22712818.14	0.0088	0.0036
Venus	57474-02-05 23:17 G	22713043.27	22713043.47	22713043.69	0.0088	0.0030
Venus	57474-09-19 12:14 G	22713268.80	22713269.01	22713269.23	0.0088	0.0023
Venus	57475-05-03 01:12 G	22713494.34	22713494.55	22713494.77	0.0088	0.0017
Venus	57475-12-14 13:55 G	22713719.87	22713720.08	22713720.31	0.0088	0.0011
Venus	57476-07-27 02:53 G	22713945.40	22713945.62	22713945.84	0.0088	0.0005
Venus	57477-03-09 15:50 G	22714170.94	22714171.16	22714171.39	0.0088	0.0002
Venus	57477-10-21 04:48 G	22714396.48	22714396.70	22714396.92	0.0088	0.0007
Venus	57478-06-03 17:31 G	22714622.01	22714622.23	22714622.45	0.0088	0.0013
Venus	57479-01-15 06:14 G	22714847.55	22714847.76	22714847.98	0.0088	0.0019
Venus	57479-08-28 18:58 G	22715073.08	22715073.29	22715073.51	0.0088	0.0025
Venus	57480-04-10 07:55 G	22715298.63	22715298.83	22715299.04	0.0088	0.0031
Venus	57480-11-21 20:38 G	22715524.16	22715524.36	22715524.56	0.0088	0.0037
Venus	57481-07-05 09:22 G	22715749.71	22715749.89	22715750.09	0.0088	0.0043
Venus	57482-02-15 22:19 G	22715975.25	22715975.43	22715975.62	0.0088	0.0049
Venus	57482-09-29 11:02 G	22716200.80	22716200.96	22716201.14	0.0088	0.0055
Venus	57483-05-12 23:46 G	22716426.34	22716426.49	22716426.66	0.0088	0.0061
Venus	57483-12-24 12:29 G	22716651.89	22716652.02	22716652.17	0.0088	0.0067

Venus	57484-08-06 01:12 G	22716877.44	22716877.55	22716877.69	0.0088	0.0073
Venus	57485-03-19 13:55 G	22717103.01	22717103.08	22717103.20	0.0088	0.0079
Venus	57485-10-31 03:22 G	22717328.58	22717328.64	22717328.70	0.0088	0.0084
Mars	57496-10-27 09:07 G	22721342.62	22721342.88	22721343.17	0.0088	0.0031
Mercury	57531-04-08 02:10 G	22733922.52	22733922.59	22733922.67	0.0088	0.0081
Mercury	57531-07-05 05:17 G	22734010.62	22734010.72	22734010.85	0.0088	0.0070
Mercury	57531-10-01 08:38 G	22734098.73	22734098.86	22734099.01	0.0088	0.0060
Mercury	57531-12-28 12:14 G	22734186.85	22734187.01	22734187.17	0.0088	0.0049
Mercury	57532-03-25 15:36 G	22734274.98	22734275.15	22734275.32	0.0088	0.0038
Mercury	57532-06-21 18:43 G	22734363.11	22734363.28	22734363.47	0.0088	0.0028
Mercury	57532-09-17 22:19 G	22734451.25	22734451.43	22734451.62	0.0088	0.0016
Mercury	57532-12-15 01:55 G	22734539.39	22734539.58	22734539.77	0.0088	0.0005
Mercury	57533-03-13 05:17 G	22734627.53	22734627.72	22734627.91	0.0088	0.0006
Mercury	57533-06-09 08:38 G	22734715.67	22734715.86	22734716.05	0.0088	0.0017
Mercury	57533-09-05 11:46 G	22734803.82	22734803.99	22734804.19	0.0088	0.0029
Mercury	57533-12-02 15:07 G	22734891.98	22734892.13	22734892.32	0.0088	0.0040
Mercury	57534-02-28 18:29 G	22734980.13	22734980.27	22734980.45	0.0088	0.0051
Mercury	57534-05-27 22:05 G	22735068.30	22735068.42	22735068.57	0.0088	0.0061
Mercury	57534-08-24 01:26 G	22735156.47	22735156.56	22735156.69	0.0088	0.0073
Mercury	57534-11-20 05:02 G	22735244.66	22735244.71	22735244.79	0.0088	0.0084
Moon	57540-10-01 11:46 G	22737386.90	22737386.99	22737387.15	0.0089	0.0078
Earth	57540-10-01 15:36 G	22737387.05	22737387.15	22737387.30	0.0089	0.0078 *
Earth	57541-10-04 02:53 G	22737754.42	22737754.62	22737754.86	0.0089	0.0048
Moon	57541-10-04 06:29 G	22737754.57	22737754.77	22737755.00	0.0089	0.0048 *
Moon	57542-10-06 11:17 G	22738121.72	22738121.97	22738122.22	0.0089	0.0016
Earth	57542-10-06 14:24 G	22738121.86	22738122.10	22738122.36	0.0089	0.0018 *
Earth	57543-10-09 01:41 G	22738489.32	22738489.57	22738489.83	0.0089	0.0013
Moon	57543-10-09 04:34 G	22738489.43	22738489.69	22738489.95	0.0089	0.0012 *
Moon	57544-10-10 11:17 G	22738856.77	22738856.97	22738857.20	0.0089	0.0044
Earth	57544-10-10 12:43 G	22738856.82	22738857.03	22738857.27	0.0089	0.0043 *

Earth	57545-10-13 00:00 G	22739224.37	22739224.50	22739224.66	0.0089	0.0073
Moon	57545-10-13 00:29 G	22739224.39	22739224.52	22739224.71	0.0089	0.0072 *
Venus	57551-04-15 15:36 G	22741235.12	22741235.15	22741235.20	0.0089	0.0087
Venus	57551-11-27 04:48 G	22741460.62	22741460.70	22741460.79	0.0089	0.0081
Venus	57552-07-09 18:00 G	22741686.14	22741686.25	22741686.36	0.0089	0.0075
Venus	57553-02-20 07:12 G	22741911.66	22741911.80	22741911.93	0.0089	0.0070
Venus	57553-10-03 20:10 G	22742137.19	22742137.34	22742137.50	0.0089	0.0063
Venus	57554-05-17 09:07 G	22742362.72	22742362.88	22742363.05	0.0089	0.0057
Venus	57554-12-28 22:05 G	22742588.25	22742588.42	22742588.61	0.0089	0.0052
Venus	57555-08-11 11:17 G	22742813.79	22742813.97	22742814.17	0.0089	0.0045
Venus	57556-03-24 00:29 G	22743039.33	22743039.52	22743039.73	0.0089	0.0039
Venus	57556-11-04 13:26 G	22743264.87	22743265.06	22743265.28	0.0089	0.0033
Venus	57557-06-18 02:38 G	22743490.41	22743490.61	22743490.83	0.0089	0.0027
Venus	57558-01-29 15:50 G	22743715.95	22743716.16	22743716.38	0.0089	0.0021
Venus	57558-09-12 05:02 G	22743941.50	22743941.71	22743941.94	0.0089	0.0015
Venus	57559-04-25 18:14 G	22744167.05	22744167.26	22744167.49	0.0089	0.0008
Venus	57559-12-07 07:26 G	22744392.60	22744392.81	22744393.04	0.0089	0.0003
Venus	57560-07-19 20:38 G	22744618.15	22744618.36	22744618.59	0.0089	0.0005
Venus	57561-03-02 09:50 G	22744843.70	22744843.91	22744844.14	0.0089	0.0011
Venus	57561-10-13 23:17 G	22745069.26	22745069.47	22745069.69	0.0089	0.0017
Venus	57562-05-27 12:29 G	22745294.81	22745295.02	22745295.23	0.0089	0.0024
Venus	57563-01-08 01:26 G	22745520.37	22745520.56	22745520.78	0.0089	0.0030
Venus	57563-08-21 14:53 G	22745745.93	22745746.12	22745746.33	0.0089	0.0036
Venus	57564-04-03 04:05 G	22745971.49	22745971.67	22745971.88	0.0089	0.0043
Venus	57564-11-14 17:31 G	22746197.05	22746197.23	22746197.42	0.0089	0.0049
Venus	57565-06-28 06:43 G	22746422.61	22746422.78	22746422.96	0.0089	0.0055
Venus	57566-02-08 19:55 G	22746648.18	22746648.33	22746648.50	0.0089	0.0061
Venus	57566-09-22 08:53 G	22746873.75	22746873.87	22746874.04	0.0089	0.0068
Venus	57567-05-05 22:05 G	22747099.32	22747099.42	22747099.57	0.0089	0.0074
Venus	57567-12-17 11:17 G	22747324.89	22747324.97	22747325.09	0.0089	0.0080



Venus	57568-07-30 00:29 G	22747550.48	22747550.52	22747550.61	0.0090	0.0086
Mars	57578-08-21 22:34 G	22751225.11	22751225.44	22751225.79	0.0090	0.0010
Mercury	57611-11-06 07:26 G	22763354.76	22763354.81	22763354.86	0.0089	0.0082
Mercury	57612-02-02 08:53 G	22763442.79	22763442.87	22763442.94	0.0089	0.0074
Mercury	57612-04-30 10:05 G	22763530.84	22763530.92	22763531.02	0.0089	0.0066
Mercury	57612-07-27 11:31 G	22763618.88	22763618.98	22763619.09	0.0089	0.0058
Mercury	57612-10-23 12:58 G	22763706.93	22763707.04	22763707.16	0.0089	0.0049
Mercury	57613-01-19 14:24 G	22763794.98	22763795.10	22763795.22	0.0089	0.0041
Mercury	57613-04-17 15:50 G	22763883.04	22763883.16	22763883.28	0.0089	0.0033
Mercury	57613-07-14 17:17 G	22763971.09	22763971.22	22763971.35	0.0089	0.0025
Mercury	57613-10-10 18:29 G	22764059.15	22764059.27	22764059.41	0.0089	0.0018
Mercury	57614-01-06 19:55 G	22764147.20	22764147.33	22764147.47	0.0089	0.0010
Mercury	57614-04-04 21:22 G	22764235.26	22764235.39	22764235.53	0.0089	0.0002
Mercury	57614-07-01 22:48 G	22764323.32	22764323.45	22764323.58	0.0089	0.0006
Mercury	57614-09-28 00:14 G	22764411.38	22764411.51	22764411.64	0.0089	0.0014
Mercury	57614-12-25 01:26 G	22764499.44	22764499.56	22764499.69	0.0089	0.0022
Mercury	57615-03-23 02:53 G	22764587.50	22764587.62	22764587.75	0.0089	0.0030
Mercury	57615-06-19 04:05 G	22764675.56	22764675.67	22764675.80	0.0089	0.0038
Mercury	57615-09-15 05:31 G	22764763.62	22764763.73	22764763.85	0.0089	0.0046
Mercury	57615-12-12 06:58 G	22764851.69	22764851.79	22764851.90	0.0089	0.0053
Mercury	57616-03-09 08:10 G	22764939.75	22764939.84	22764939.94	0.0089	0.0061
Mercury	57616-06-05 09:22 G	22765027.82	22765027.89	22765027.99	0.0089	0.0069
Mercury	57616-09-01 10:48 G	22765115.89	22765115.95	22765116.03	0.0089	0.0077
Mercury	57616-11-28 12:14 G	22765203.98	22765204.01	22765204.06	0.0089	0.0084
Moon	57622-03-31 18:43 G	22767153.10	22767153.28	22767153.46	0.0089	0.0062
Earth	57622-03-31 22:05 G	22767153.26	22767153.42	22767153.60	0.0089	0.0066 *
Earth	57623-04-03 09:50 G	22767520.69	22767520.91	22767521.16	0.0089	0.0036
Moon	57623-04-03 13:12 G	22767520.84	22767521.05	22767521.31	0.0089	0.0039 *
Moon	57624-04-04 18:58 G	22767888.04	22767888.29	22767888.55	0.0089	0.0002
Earth	57624-04-04 22:05 G	22767888.17	22767888.42	22767888.68	0.0089	0.0006 *

Earth	57625-04-07 10:05 G	22768255.68	22768255.92	22768256.17	0.0089	0.0025
Moon	57625-04-07 12:14 G	22768255.75	22768256.01	22768256.27	0.0089	0.0022 *
Jupiter	57625-11-08 12:14 G	22768470.49	22768471.01	22768471.55	0.0089	0.0015
Moon	57626-04-09 20:38 G	22768623.18	22768623.36	22768623.56	0.0089	0.0058
Earth	57626-04-09 21:36 G	22768623.23	22768623.40	22768623.63	0.0089	0.0056 *
Moon	57627-04-12 09:36 G	22768990.83	22768990.90	22768991.02	0.0089	0.0083
Earth	57627-04-12 09:50 G	22768990.87	22768990.91	22768991.00	0.0089	0.0086 *
Venus	57632-03-07 23:46 G	22770782.48	22770782.49	22770782.53	0.0088	0.0088
Venus	57632-10-19 12:29 G	22771007.96	22771008.02	22771008.12	0.0088	0.0082
Venus	57633-06-02 01:26 G	22771233.47	22771233.56	22771233.69	0.0088	0.0077
Venus	57634-01-13 14:24 G	22771458.99	22771459.10	22771459.25	0.0088	0.0071
Venus	57634-08-27 03:36 G	22771684.51	22771684.65	22771684.81	0.0088	0.0064
Venus	57635-04-09 16:34 G	22771910.03	22771910.19	22771910.36	0.0088	0.0058
Venus	57635-11-21 05:31 G	22772135.56	22772135.73	22772135.91	0.0088	0.0053
Venus	57636-07-03 18:29 G	22772361.09	22772361.27	22772361.46	0.0088	0.0047
Venus	57637-02-14 07:26 G	22772586.62	22772586.81	22772587.01	0.0088	0.0041
Venus	57637-09-27 20:24 G	22772812.15	22772812.35	22772812.56	0.0088	0.0035
Venus	57638-05-11 09:22 G	22773037.68	22773037.89	22773038.10	0.0088	0.0028
Venus	57638-12-22 22:19 G	22773263.21	22773263.43	22773263.64	0.0088	0.0022
Venus	57639-08-05 11:02 G	22773488.75	22773488.96	22773489.18	0.0088	0.0017
Venus	57640-03-18 00:14 G	22773714.29	22773714.51	22773714.73	0.0088	0.0010
Venus	57640-10-29 12:58 G	22773939.82	22773940.04	22773940.27	0.0088	0.0005
Venus	57641-06-12 01:55 G	22774165.36	22774165.58	22774165.80	0.0088	0.0002
Venus	57642-01-23 14:38 G	22774390.89	22774391.11	22774391.33	0.0088	0.0008
Venus	57642-09-06 03:22 G	22774616.43	22774616.64	22774616.87	0.0088	0.0014
Venus	57643-04-19 16:05 G	22774841.97	22774842.17	22774842.40	0.0088	0.0020
Venus	57643-12-01 04:48 G	22775067.50	22775067.70	22775067.93	0.0088	0.0026
Venus	57644-07-13 17:31 G	22775293.04	22775293.23	22775293.45	0.0088	0.0032
Venus	57645-02-24 06:29 G	22775518.58	22775518.77	22775518.98	0.0088	0.0038
Venus	57645-10-07 19:12 G	22775744.12	22775744.30	22775744.51	0.0088	0.0044

Venus	57646-05-21 08:10 G	22775969.66	22775969.84	22775970.03	0.0088	0.0049
Venus	57647-01-01 20:53 G	22776195.20	22776195.37	22776195.55	0.0088	0.0055
Venus	57647-08-15 09:22 G	22776420.75	22776420.89	22776421.06	0.0088	0.0061
Venus	57648-03-27 22:19 G	22776646.30	22776646.43	22776646.59	0.0088	0.0067
Venus	57648-11-08 10:48 G	22776871.85	22776871.95	22776872.10	0.0088	0.0073
Venus	57649-06-22 00:00 G	22777097.41	22777097.50	22777097.60	0.0088	0.0078
Venus	57650-02-02 12:29 G	22777322.98	22777323.02	22777323.10	0.0088	0.0084
Mars	57660-06-13 00:00 G	22781106.23	22781106.50	22781106.79	0.0088	0.0020
Mercury	57695-10-06 20:38 G	22794005.36	22794005.36	22794005.37	0.0088	0.0088
Mercury	57696-01-02 23:46 G	22794093.42	22794093.49	22794093.59	0.0088	0.0078
Mercury	57696-03-31 02:53 G	22794181.52	22794181.62	22794181.76	0.0088	0.0068
Mercury	57696-06-27 06:29 G	22794269.64	22794269.77	22794269.93	0.0088	0.0056
Mercury	57696-09-23 09:50 G	22794357.76	22794357.91	22794358.08	0.0088	0.0046
Mercury	57696-12-20 13:26 G	22794445.89	22794446.06	22794446.23	0.0088	0.0035
Mercury	57697-03-18 16:34 G	22794534.02	22794534.19	22794534.38	0.0088	0.0024
Mercury	57697-06-14 19:55 G	22794622.15	22794622.33	22794622.53	0.0088	0.0014
Mercury	57697-09-10 23:31 G	22794710.29	22794710.48	22794710.67	0.0088	0.0002
Mercury	57697-12-08 02:53 G	22794798.43	22794798.62	22794798.81	0.0088	0.0009
Mercury	57698-03-06 06:14 G	22794886.58	22794886.76	22794886.95	0.0088	0.0020
Mercury	57698-06-02 09:36 G	22794974.73	22794974.90	22794975.09	0.0088	0.0031
Mercury	57698-08-29 13:12 G	22795062.88	22795063.05	22795063.22	0.0088	0.0042
Mercury	57698-11-25 16:19 G	22795151.04	22795151.18	22795151.35	0.0088	0.0053
Mercury	57699-02-21 19:41 G	22795239.21	22795239.32	22795239.47	0.0088	0.0064
Mercury	57699-05-20 23:02 G	22795327.38	22795327.46	22795327.58	0.0088	0.0076
Mercury	57699-08-17 02:38 G	22795415.59	22795415.61	22795415.67	0.0088	0.0087
Moon	57704-10-02 02:38 G	22797287.61	22797287.61	22797287.65	0.0089	0.0089
Moon	57705-10-04 07:55 G	22797654.68	22797654.83	22797655.00	0.0089	0.0068
Earth	57705-10-04 10:19 G	22797654.78	22797654.93	22797655.13	0.0089	0.0064 *
Earth	57706-10-06 21:50 G	22798022.18	22798022.41	22798022.66	0.0089	0.0034
Moon	57706-10-07 00:14 G	22798022.27	22798022.51	22798022.77	0.0089	0.0029 *

Moon	57707-10-09 08:10 G	22798389.60	22798389.84	22798390.09	0.0089	0.0008
Earth	57707-10-09 09:22 G	22798389.63	22798389.89	22798390.15	0.0089	0.0003 *
Moon	57708-10-10 19:41 G	22798757.09	22798757.32	22798757.59	0.0089	0.0032
Earth	57708-10-10 20:24 G	22798757.11	22798757.35	22798757.60	0.0089	0.0027 *
Earth	57709-10-13 07:41 G	22799124.63	22799124.82	22799125.02	0.0089	0.0057
Moon	57709-10-13 08:38 G	22799124.68	22799124.86	22799125.08	0.0089	0.0053 *
Earth	57710-10-15 18:43 G	22799492.25	22799492.28	22799492.34	0.0089	0.0087
Venus	57715-07-19 00:29 G	22801229.48	22801229.52	22801229.58	0.0089	0.0086
Venus	57716-02-29 13:41 G	22801454.99	22801455.07	22801455.17	0.0089	0.0080
Venus	57716-10-12 02:53 G	22801680.51	22801680.62	22801680.74	0.0089	0.0074
Venus	57717-05-25 15:36 G	22801906.03	22801906.15	22801906.31	0.0089	0.0069
Venus	57718-01-06 04:34 G	22802131.56	22802131.69	22802131.87	0.0089	0.0063
Venus	57718-08-19 18:00 G	22802357.10	22802357.25	22802357.44	0.0089	0.0057
Venus	57719-04-02 07:26 G	22802582.63	22802582.81	22802582.99	0.0089	0.0051
Venus	57719-11-13 20:24 G	22802808.17	22802808.35	22802808.55	0.0089	0.0045
Venus	57720-06-26 09:36 G	22803033.70	22803033.90	22803034.10	0.0089	0.0038
Venus	57721-02-06 22:34 G	22803259.24	22803259.44	22803259.65	0.0089	0.0032
Venus	57721-09-20 11:46 G	22803484.79	22803484.99	22803485.21	0.0089	0.0026
Venus	57722-05-04 00:43 G	22803710.33	22803710.53	22803710.76	0.0089	0.0021
Venus	57722-12-15 13:55 G	22803935.87	22803936.08	22803936.30	0.0089	0.0014
Venus	57723-07-29 03:22 G	22804161.42	22804161.64	22804161.86	0.0089	0.0008
Venus	57724-03-10 16:19 G	22804386.97	22804387.18	22804387.41	0.0089	0.0003
Venus	57724-10-22 05:31 G	22804612.52	22804612.73	22804612.95	0.0089	0.0005
Venus	57725-06-04 18:43 G	22804838.06	22804838.28	22804838.50	0.0089	0.0011
Venus	57726-01-16 07:55 G	22805063.62	22805063.83	22805064.05	0.0089	0.0017
Venus	57726-08-29 21:07 G	22805289.18	22805289.38	22805289.60	0.0089	0.0024
Venus	57727-04-12 10:34 G	22805514.73	22805514.94	22805515.15	0.0089	0.0030
Venus	57727-11-23 23:31 G	22805740.29	22805740.48	22805740.69	0.0089	0.0036
Venus	57728-07-06 12:43 G	22805965.85	22805966.03	22805966.24	0.0089	0.0042
Venus	57729-02-17 01:55 G	22806191.41	22806191.58	22806191.78	0.0089	0.0049

Venus	57729-09-30 15:22 G	22806416.98	22806417.14	22806417.33	0.0089	0.0055
Venus	57730-05-14 04:48 G	22806642.55	22806642.70	22806642.87	0.0089	0.0061
Venus	57730-12-25 18:00 G	22806868.11	22806868.25	22806868.40	0.0089	0.0067
Venus	57731-08-08 07:12 G	22807093.69	22807093.80	22807093.94	0.0089	0.0073
Venus	57732-03-20 20:38 G	22807319.27	22807319.36	22807319.47	0.0089	0.0079
Venus	57732-11-01 09:50 G	22807544.85	22807544.91	22807544.99	0.0089	0.0085
Mars	57742-04-04 23:02 G	22810986.30	22810986.46	22810986.66	0.0090	0.0076
Mars	57744-03-01 12:29 G	22811682.89	22811683.02	22811683.24	0.0090	0.0078
Mercury	57776-05-07 05:02 G	22823437.70	22823437.71	22823437.75	0.0089	0.0087
Mercury	57776-08-03 06:29 G	22823525.72	22823525.77	22823525.84	0.0089	0.0079
Mercury	57776-10-30 07:55 G	22823613.76	22823613.83	22823613.92	0.0089	0.0071
Mercury	57777-01-26 09:22 G	22823701.81	22823701.89	22823702.00	0.0089	0.0063
Mercury	57777-04-24 10:48 G	22823789.85	22823789.95	22823790.06	0.0089	0.0055
Mercury	57777-07-21 12:14 G	22823877.90	22823878.01	22823878.13	0.0089	0.0047
Mercury	57777-10-17 13:41 G	22823965.96	22823966.07	22823966.20	0.0089	0.0039
Mercury	57778-01-13 15:07 G	22824054.01	22824054.13	22824054.26	0.0089	0.0031
Mercury	57778-04-11 16:34 G	22824142.06	22824142.19	22824142.32	0.0089	0.0023
Mercury	57778-07-08 18:00 G	22824230.12	22824230.25	22824230.38	0.0089	0.0015
Mercury	57778-10-04 19:26 G	22824318.18	22824318.31	22824318.44	0.0089	0.0007
Mercury	57778-12-31 20:53 G	22824406.23	22824406.37	22824406.50	0.0089	0.0002
Mercury	57779-03-29 22:19 G	22824494.29	22824494.43	22824494.56	0.0089	0.0009
Mercury	57779-06-25 23:31 G	22824582.35	22824582.48	22824582.61	0.0089	0.0017
Mercury	57779-09-22 00:43 G	22824670.41	22824670.53	22824670.67	0.0089	0.0025
Mercury	57779-12-19 02:24 G	22824758.47	22824758.60	22824758.72	0.0089	0.0032
Mercury	57780-03-16 03:36 G	22824846.54	22824846.65	22824846.77	0.0089	0.0040
Mercury	57780-06-12 05:02 G	22824934.60	22824934.71	22824934.82	0.0089	0.0048
Mercury	57780-09-08 06:14 G	22825022.66	22825022.76	22825022.87	0.0089	0.0056
Mercury	57780-12-05 07:26 G	22825110.73	22825110.81	22825110.92	0.0089	0.0064
Mercury	57781-03-03 09:07 G	22825198.80	22825198.88	22825198.96	0.0089	0.0071
Mercury	57781-05-30 10:19 G	22825286.88	22825286.93	22825287.00	0.0089	0.0079

Mercury	57781-08-26 11:31 G	22825374.97	22825374.98	22825375.02	0.0089	0.0087
Earth	57786-04-01 04:48 G	22827053.63	22827053.70	22827053.82	0.0089	0.0082
Moon	57786-04-01 08:24 G	22827053.78	22827053.85	22827053.94	0.0089	0.0084 *
Moon	57787-04-03 14:24 G	22827420.90	22827421.10	22827421.32	0.0089	0.0049
Earth	57787-04-03 16:48 G	22827421.01	22827421.20	22827421.43	0.0089	0.0052 *
Earth	57788-04-05 04:48 G	22827788.46	22827788.70	22827788.96	0.0089	0.0022
Moon	57788-04-05 06:43 G	22827788.54	22827788.78	22827789.05	0.0089	0.0025 *
Moon	57789-04-07 16:48 G	22828155.95	22828156.20	22828156.45	0.0089	0.0012
Earth	57789-04-07 17:02 G	22828155.95	22828156.21	22828156.47	0.0089	0.0009 *
Moon	57790-04-10 03:50 G	22828523.44	22828523.66	22828523.92	0.0089	0.0037
Earth	57790-04-10 04:34 G	22828523.48	22828523.69	22828523.94	0.0089	0.0040 *
Earth	57791-04-12 16:34 G	22828891.05	22828891.19	22828891.37	0.0089	0.0070
Moon	57791-04-12 18:43 G	22828891.15	22828891.28	22828891.43	0.0089	0.0073 *
Jupiter	57792-01-05 16:19 G	22829158.88	22829159.18	22829159.61	0.0089	0.0066
Venus	57796-06-10 09:07 G	22830776.85	22830776.88	22830776.94	0.0088	0.0087
Venus	57797-01-21 22:19 G	22831002.35	22831002.43	22831002.53	0.0088	0.0081
Venus	57797-09-04 10:48 G	22831227.86	22831227.95	22831228.09	0.0088	0.0076
Venus	57798-04-18 00:00 G	22831453.38	22831453.50	22831453.65	0.0088	0.0069
Venus	57798-11-29 12:58 G	22831678.90	22831679.04	22831679.20	0.0088	0.0063
Venus	57799-07-13 01:55 G	22831904.42	22831904.58	22831904.76	0.0088	0.0058
Venus	57800-02-23 15:07 G	22832129.96	22832130.13	22832130.31	0.0088	0.0052
Venus	57800-10-07 04:05 G	22832355.48	22832355.67	22832355.86	0.0088	0.0046
Venus	57801-05-20 16:34 G	22832581.01	22832581.19	22832581.40	0.0088	0.0040
Venus	57802-01-01 05:31 G	22832806.54	22832806.73	22832806.95	0.0088	0.0034
Venus	57802-08-14 18:29 G	22833032.07	22833032.27	22833032.49	0.0088	0.0028
Venus	57803-03-28 07:26 G	22833257.61	22833257.81	22833258.04	0.0088	0.0022
Venus	57803-11-08 20:24 G	22833483.14	22833483.35	22833483.58	0.0088	0.0016
Venus	57804-06-21 09:22 G	22833708.68	22833708.89	22833709.12	0.0088	0.0010
Venus	57805-02-01 22:34 G	22833934.22	22833934.44	22833934.66	0.0088	0.0004
Venus	57805-09-15 11:17 G	22834159.76	22834159.97	22834160.20	0.0088	0.0003

Venus	57806-04-29 00:14 G	22834385.29	22834385.51	22834385.73	0.0088	0.0008
Venus	57806-12-10 12:58 G	22834610.83	22834611.04	22834611.26	0.0088	0.0014
Venus	57807-07-24 01:55 G	22834836.37	22834836.58	22834836.80	0.0088	0.0020
Venus	57808-03-05 14:53 G	22835061.91	22835062.12	22835062.33	0.0088	0.0026
Venus	57808-10-17 03:36 G	22835287.45	22835287.65	22835287.86	0.0088	0.0032
Venus	57809-05-30 16:19 G	22835512.99	22835513.18	22835513.39	0.0088	0.0038
Venus	57810-01-11 04:48 G	22835738.53	22835738.70	22835738.91	0.0088	0.0044
Venus	57810-08-24 17:31 G	22835964.07	22835964.23	22835964.43	0.0088	0.0050
Venus	57811-04-07 06:58 G	22836189.62	22836189.79	22836189.96	0.0088	0.0055
Venus	57811-11-18 19:26 G	22836415.16	22836415.31	22836415.48	0.0088	0.0061
Venus	57812-07-01 07:55 G	22836640.71	22836640.83	22836640.99	0.0088	0.0067
Venus	57813-02-11 20:38 G	22836866.26	22836866.36	22836866.50	0.0088	0.0073
Venus	57813-09-25 09:36 G	22837091.81	22837091.90	22837092.01	0.0088	0.0078
Venus	57814-05-08 22:05 G	22837317.38	22837317.42	22837317.51	0.0088	0.0084
Mars	57824-01-29 12:14 G	22840869.87	22840870.01	22840870.21	0.0088	0.0071
Mars	57825-12-23 00:43 G	22841563.29	22841563.53	22841563.78	0.0088	0.0048
Mercury	57860-07-04 18:14 G	22854176.22	22854176.26	22854176.31	0.0088	0.0086
Mercury	57860-09-30 21:07 G	22854264.30	22854264.38	22854264.50	0.0088	0.0076
Mercury	57860-12-28 00:43 G	22854352.41	22854352.53	22854352.67	0.0088	0.0064
Mercury	57861-03-26 04:05 G	22854440.53	22854440.67	22854440.83	0.0088	0.0054
Mercury	57861-06-22 07:12 G	22854528.65	22854528.80	22854528.98	0.0088	0.0044
Mercury	57861-09-18 10:48 G	22854616.78	22854616.95	22854617.13	0.0088	0.0032
Mercury	57861-12-15 14:10 G	22854704.91	22854705.09	22854705.28	0.0088	0.0022
Mercury	57862-03-13 17:46 G	22854793.05	22854793.24	22854793.43	0.0088	0.0011
Mercury	57862-06-09 21:07 G	22854881.19	22854881.38	22854881.57	0.0088	0.0001
Mercury	57862-09-06 00:29 G	22854969.33	22854969.52	22854969.71	0.0088	0.0011
Mercury	57862-12-03 03:36 G	22855057.48	22855057.65	22855057.85	0.0088	0.0023
Mercury	57863-03-01 06:58 G	22855145.63	22855145.79	22855145.98	0.0088	0.0034
Mercury	57863-05-28 10:19 G	22855233.78	22855233.93	22855234.11	0.0088	0.0045
Mercury	57863-08-24 13:41 G	22855321.94	22855322.07	22855322.24	0.0088	0.0056

Mercury	57863-11-20 17:02 G	22855410.11	22855410.21	22855410.36	0.0088	0.0067
Mercury	57864-02-16 20:38 G	22855498.28	22855498.36	22855498.47	0.0088	0.0077
Mercury	57864-05-15 00:29 G	22855586.52	22855586.52	22855586.52	0.0088	0.0088
Earth	57869-10-04 16:34 G	22857555.09	22857555.19	22857555.31	0.0089	0.0080
Moon	57869-10-04 18:00 G	22857555.15	22857555.25	22857555.36	0.0089	0.0081 *
Moon	57870-10-07 03:22 G	22857922.45	22857922.64	22857922.86	0.0089	0.0050
Earth	57870-10-07 03:50 G	22857922.46	22857922.66	22857922.88	0.0089	0.0050 *
Moon	57871-10-09 14:24 G	22858289.86	22858290.10	22858290.38	0.0089	0.0021
Earth	57871-10-09 15:22 G	22858289.90	22858290.14	22858290.40	0.0089	0.0020 *
Earth	57872-10-11 02:38 G	22858657.37	22858657.61	22858657.88	0.0089	0.0011
Moon	57872-10-11 05:02 G	22858657.47	22858657.71	22858657.97	0.0089	0.0012 *
Moon	57873-10-13 10:48 G	22859024.74	22859024.95	22859025.20	0.0089	0.0040
Earth	57873-10-13 13:41 G	22859024.86	22859025.07	22859025.32	0.0089	0.0041 *
Earth	57874-10-16 00:43 G	22859392.40	22859392.53	22859392.71	0.0089	0.0071
Moon	57874-10-16 04:19 G	22859392.55	22859392.68	22859392.86	0.0089	0.0071 *
Venus	57879-10-21 09:07 G	22861223.83	22861223.88	22861223.95	0.0089	0.0085
Venus	57880-06-02 21:50 G	22861449.34	22861449.41	22861449.53	0.0089	0.0080
Venus	57881-01-14 11:02 G	22861674.86	22861674.96	22861675.10	0.0089	0.0074
Venus	57881-08-28 00:14 G	22861900.39	22861900.51	22861900.67	0.0089	0.0068
Venus	57882-04-10 13:26 G	22862125.92	22862126.06	22862126.23	0.0089	0.0062
Venus	57882-11-22 02:38 G	22862351.45	22862351.61	22862351.79	0.0089	0.0056
Venus	57883-07-05 15:36 G	22862576.99	22862577.15	22862577.35	0.0089	0.0050
Venus	57884-02-16 04:48 G	22862802.53	22862802.70	22862802.91	0.0089	0.0044
Venus	57884-09-28 18:00 G	22863028.07	22863028.25	22863028.47	0.0089	0.0038
Venus	57885-05-12 07:12 G	22863253.61	22863253.80	22863254.02	0.0089	0.0032
Venus	57885-12-23 20:38 G	22863479.15	22863479.36	22863479.57	0.0089	0.0026
Venus	57886-08-06 09:50 G	22863704.69	22863704.91	22863705.12	0.0089	0.0019
Venus	57887-03-19 22:48 G	22863930.24	22863930.45	22863930.67	0.0089	0.0014
Venus	57887-10-31 12:00 G	22864155.78	22864156.00	22864156.22	0.0089	0.0007
Venus	57888-06-13 00:58 G	22864381.33	22864381.54	22864381.77	0.0089	0.0003



Venus	57889-01-24 14:10 G	22864606.87	22864607.09	22864607.31	0.0089	0.0005
Venus	57889-09-07 03:22 G	22864832.43	22864832.64	22864832.86	0.0089	0.0011
Venus	57890-04-20 16:34 G	22865057.98	22865058.19	22865058.41	0.0089	0.0017
Venus	57890-12-02 05:46 G	22865283.53	22865283.74	22865283.95	0.0089	0.0023
Venus	57891-07-15 18:58 G	22865509.08	22865509.29	22865509.50	0.0089	0.0030
Venus	57892-02-26 08:10 G	22865734.64	22865734.84	22865735.04	0.0089	0.0036
Venus	57892-10-08 21:07 G	22865960.20	22865960.38	22865960.59	0.0089	0.0042
Venus	57893-05-22 10:19 G	22866185.76	22866185.93	22866186.13	0.0089	0.0048
Venus	57894-01-02 23:31 G	22866411.32	22866411.48	22866411.67	0.0089	0.0055
Venus	57894-08-16 12:58 G	22866636.89	22866637.04	22866637.22	0.0089	0.0060
Venus	57895-03-30 02:10 G	22866862.46	22866862.59	22866862.75	0.0089	0.0067
Venus	57895-11-10 15:22 G	22867088.03	22867088.14	22867088.29	0.0089	0.0073
Venus	57896-06-23 04:34 G	22867313.61	22867313.69	22867313.82	0.0089	0.0079
Venus	57897-02-03 17:46 G	22867539.19	22867539.24	22867539.34	0.0089	0.0085
Mars	57907-10-15 11:02 G	22871443.63	22871443.96	22871444.31	0.0090	0.0009
Mercury	57941-02-03 04:19 G	22883608.65	22883608.68	22883608.73	0.0089	0.0085
Mercury	57941-05-02 05:46 G	22883696.68	22883696.74	22883696.82	0.0089	0.0077
Mercury	57941-07-29 07:12 G	22883784.72	22883784.80	22883784.89	0.0089	0.0069
Mercury	57941-10-25 08:38 G	22883872.77	22883872.86	22883872.96	0.0089	0.0061
Mercury	57942-01-21 10:05 G	22883960.82	22883960.92	22883961.03	0.0089	0.0053
Mercury	57942-04-19 11:31 G	22884048.87	22884048.98	22884049.10	0.0089	0.0045
Mercury	57942-07-16 12:58 G	22884136.92	22884137.04	22884137.17	0.0089	0.0037
Mercury	57942-10-12 14:24 G	22884224.97	22884225.10	22884225.23	0.0089	0.0029
Mercury	57943-01-08 15:50 G	22884313.03	22884313.16	22884313.29	0.0089	0.0021
Mercury	57943-04-06 17:17 G	22884401.09	22884401.22	22884401.35	0.0089	0.0013
Mercury	57943-07-03 18:43 G	22884489.14	22884489.28	22884489.41	0.0089	0.0005
Mercury	57943-09-29 19:55 G	22884577.20	22884577.33	22884577.47	0.0089	0.0004
Mercury	57943-12-26 21:22 G	22884665.26	22884665.39	22884665.53	0.0089	0.0011
Mercury	57944-03-23 22:48 G	22884753.32	22884753.45	22884753.58	0.0089	0.0019
Mercury	57944-06-20 00:00 G	22884841.38	22884841.50	22884841.64	0.0089	0.0027

Mercury	57944-09-16 01:26 G	22884929.44	22884929.56	22884929.69	0.0089	0.0035
Mercury	57944-12-13 02:53 G	22885017.50	22885017.62	22885017.74	0.0089	0.0042
Mercury	57945-03-11 04:05 G	22885105.57	22885105.67	22885105.79	0.0089	0.0050
Mercury	57945-06-07 05:31 G	22885193.64	22885193.73	22885193.84	0.0089	0.0058
Mercury	57945-09-03 06:43 G	22885281.70	22885281.78	22885281.88	0.0089	0.0066
Mercury	57945-11-30 08:24 G	22885369.78	22885369.85	22885369.92	0.0089	0.0073
Mercury	57946-02-26 09:36 G	22885457.85	22885457.90	22885457.96	0.0089	0.0081
Mercury	57946-05-25 11:02 G	22885545.96	22885545.96	22885545.96	0.0089	0.0089
Earth	57951-04-04 23:17 G	22887321.33	22887321.47	22887321.66	0.0089	0.0068
Moon	57951-04-05 00:14 G	22887321.35	22887321.51	22887321.72	0.0089	0.0064 *
Earth	57952-04-06 11:46 G	22887688.75	22887688.99	22887689.22	0.0089	0.0037
Moon	57952-04-06 11:17 G	22887688.77	22887688.97	22887689.21	0.0089	0.0042 *
Moon	57953-04-08 21:50 G	22888056.14	22888056.41	22888056.68	0.0089	0.0003
Earth	57953-04-08 23:46 G	22888056.23	22888056.49	22888056.74	0.0089	0.0007 *
Earth	57954-04-11 11:17 G	22888423.73	22888423.97	22888424.23	0.0089	0.0024
Moon	57954-04-11 13:41 G	22888423.84	22888424.07	22888424.33	0.0089	0.0020 *
Moon	57955-04-13 19:41 G	22888791.14	22888791.32	22888791.54	0.0089	0.0058
Earth	57955-04-13 23:02 G	22888791.27	22888791.46	22888791.68	0.0089	0.0054 *
Earth	57956-04-15 11:02 G	22889158.89	22889158.96	22889159.05	0.0089	0.0084
Moon	57956-04-15 14:24 G	22889159.02	22889159.10	22889159.24	0.0089	0.0080 *
Venus	57960-09-13 18:14 G	22890771.23	22890771.26	22890771.34	0.0088	0.0086
Venus	57961-04-27 07:26 G	22890996.73	22890996.81	22890996.92	0.0088	0.0080
Venus	57961-12-08 20:38 G	22891222.24	22891222.36	22891222.48	0.0088	0.0074
Venus	57962-07-22 09:07 G	22891447.76	22891447.88	22891448.04	0.0088	0.0069
Venus	57963-03-04 22:19 G	22891673.29	22891673.43	22891673.60	0.0088	0.0063
Venus	57963-10-16 11:17 G	22891898.82	22891898.97	22891899.15	0.0088	0.0057
Venus	57964-05-29 00:29 G	22892124.34	22892124.52	22892124.70	0.0088	0.0051
Venus	57965-01-09 13:26 G	22892349.87	22892350.06	22892350.25	0.0088	0.0045
Venus	57965-08-23 01:55 G	22892575.40	22892575.58	22892575.79	0.0088	0.0039
Venus	57966-04-05 14:53 G	22892800.93	22892801.12	22892801.34	0.0088	0.0033

Venus	57966-11-17 03:50 G	22893026.46	22893026.66	22893026.88	0.0088	0.0027
Venus	57967-06-30 16:48 G	22893251.99	22893252.20	22893252.42	0.0088	0.0021
Venus	57968-02-11 05:46 G	22893477.53	22893477.74	22893477.96	0.0088	0.0015
Venus	57968-09-23 18:43 G	22893703.06	22893703.28	22893703.50	0.0088	0.0009
Venus	57969-05-07 07:26 G	22893928.59	22893928.81	22893929.04	0.0088	0.0004
Venus	57969-12-18 20:24 G	22894154.13	22894154.35	22894154.57	0.0088	0.0003
Venus	57970-08-01 09:07 G	22894379.67	22894379.88	22894380.11	0.0088	0.0009
Venus	57971-03-14 22:19 G	22894605.21	22894605.43	22894605.65	0.0088	0.0014
Venus	57971-10-26 11:02 G	22894830.75	22894830.96	22894831.18	0.0088	0.0020
Venus	57972-06-07 23:46 G	22895056.29	22895056.49	22895056.71	0.0088	0.0026
Venus	57973-01-19 12:43 G	22895281.83	22895282.03	22895282.24	0.0088	0.0032
Venus	57973-09-02 01:26 G	22895507.37	22895507.56	22895507.77	0.0088	0.0038
Venus	57974-04-15 14:10 G	22895732.91	22895733.09	22895733.30	0.0088	0.0044
Venus	57974-11-27 02:53 G	22895958.46	22895958.62	22895958.82	0.0088	0.0050
Venus	57975-07-10 16:05 G	22896184.00	22896184.17	22896184.34	0.0088	0.0055
Venus	57976-02-21 04:34 G	22896409.55	22896409.69	22896409.86	0.0088	0.0061
Venus	57976-10-03 17:17 G	22896635.09	22896635.22	22896635.38	0.0088	0.0067
Venus	57977-05-17 06:14 G	22896860.64	22896860.76	22896860.89	0.0088	0.0072
Venus	57977-12-28 18:43 G	22897086.19	22897086.28	22897086.39	0.0088	0.0078
Venus	57978-08-11 07:12 G	22897311.76	22897311.80	22897311.89	0.0088	0.0084
Mars	57989-08-08 12:29 G	22901326.73	22901327.02	22901327.31	0.0088	0.0003

# 59TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 59th millennium CE.

PLANET	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT							
	TIME							
Mercury	58025-04-01 15:22	G	22914347.10	22914347.14	22914347.22	0.0088	0.0084	
Mercury	58025-06-28 18:58	G	22914435.19	22914435.29	22914435.40	0.0088	0.0073	
Mercury	58025-09-24 22:05	G	22914523.30	22914523.42	22914523.57	0.0088	0.0062	
Mercury	58025-12-22 01:26	G	22914611.42	22914611.56	22914611.72	0.0088	0.0052	
Mercury	58026-03-20 05:02	G	22914699.54	22914699.71	22914699.88	0.0088	0.0041	
Mercury	58026-06-16 08:10	G	22914787.67	22914787.84	22914788.03	0.0088	0.0030	
Mercury	58026-09-12 11:31	G	22914875.80	22914875.98	22914876.18	0.0088	0.0020	
Mercury	58026-12-09 15:07	G	22914963.94	22914964.13	22914964.32	0.0088	0.0008	
Mercury	58027-03-07 18:29	G	22915052.08	22915052.27	22915052.46	0.0088	0.0003	
Mercury	58027-06-03 21:50	G	22915140.22	22915140.41	22915140.60	0.0088	0.0013	
Mercury	58027-08-31 01:12	G	22915228.37	22915228.55	22915228.74	0.0088	0.0024	
Mercury	58027-11-27 04:34	G	22915316.52	22915316.69	22915316.87	0.0088	0.0035	
Mercury	58028-02-23 07:55	G	22915404.67	22915404.83	22915405.00	0.0088	0.0046	
Mercury	58028-05-21 11:17	G	22915492.83	22915492.97	22915493.12	0.0088	0.0057	
Mercury	58028-08-17 14:38	G	22915581.00	22915581.11	22915581.24	0.0088	0.0068	
Mercury	58028-11-13 18:00	G	22915669.18	22915669.25	22915669.35	0.0088	0.0080	
Moon	58034-10-07 07:12	G	22917822.67	22917822.80	22917822.99	0.0089	0.0071	
Earth	58034-10-07 09:22	G	22917822.74	22917822.89	22917823.08	0.0089	0.0067	*
Earth	58035-10-09 20:53	G	22918190.15	22918190.37	22918190.62	0.0089	0.0037	
Moon	58035-10-09 23:17	G	22918190.25	22918190.47	22918190.72	0.0089	0.0033	*
Moon	58036-10-11 05:02	G	22918557.45	22918557.71	22918557.97	0.0089	0.0011	
Earth	58036-10-11 08:38	G	22918557.60	22918557.86	22918558.12	0.0089	0.0006	*
Earth	58037-10-13 19:41	G	22918925.08	22918925.32	22918925.58	0.0089	0.0024	
Moon	58037-10-13 23:17	G	22918925.23	22918925.47	22918925.72	0.0089	0.0028	*
Moon	58038-10-16 03:36	G	22919292.44	22919292.65	22919292.87	0.0089	0.0049	
Earth	58038-10-16 06:58	G	22919292.60	22919292.79	22919293.00	0.0089	0.0054	*
Earth	58039-10-18 18:00	G	22919660.19	22919660.25	22919660.35	0.0089	0.0084	

Moon	58039-10-18 20:38 G	22919660.36	22919660.36	22919660.41	0.0089	0.0089
Venus	58044-01-23 16:34 G	22921218.16	22921218.19	22921218.29	0.0089	0.0085
Venus	58044-09-05 06:00 G	22921443.67	22921443.75	22921443.87	0.0089	0.0079
Venus	58045-04-18 19:12 G	22921669.19	22921669.30	22921669.44	0.0089	0.0073
Venus	58045-11-30 08:10 G	22921894.71	22921894.84	22921895.00	0.0089	0.0067
Venus	58046-07-13 21:22 G	22922120.25	22922120.39	22922120.56	0.0089	0.0061
Venus	58047-02-24 10:48 G	22922345.78	22922345.95	22922346.12	0.0089	0.0055
Venus	58047-10-07 23:46 G	22922571.32	22922571.49	22922571.68	0.0089	0.0049
Venus	58048-05-20 12:58 G	22922796.85	22922797.04	22922797.24	0.0089	0.0043
Venus	58049-01-01 02:10 G	22923022.39	22923022.59	22923022.79	0.0089	0.0037
Venus	58049-08-14 15:22 G	22923247.94	22923248.14	22923248.35	0.0089	0.0031
Venus	58050-03-28 04:34 G	22923473.48	22923473.69	22923473.90	0.0089	0.0025
Venus	58050-11-08 17:46 G	22923699.03	22923699.24	22923699.45	0.0089	0.0019
Venus	58051-06-22 06:43 G	22923924.57	22923924.78	22923925.00	0.0089	0.0013
Venus	58052-02-02 19:55 G	22924150.11	22924150.33	22924150.55	0.0089	0.0007
Venus	58052-09-15 09:07 G	22924375.66	22924375.88	22924376.10	0.0089	0.0002
Venus	58053-04-28 22:19 G	22924601.21	22924601.43	22924601.65	0.0089	0.0005
Venus	58053-12-10 11:17 G	22924826.76	22924826.97	22924827.20	0.0089	0.0012
Venus	58054-07-24 00:29 G	22925052.31	22925052.52	22925052.74	0.0089	0.0017
Venus	58055-03-06 13:41 G	22925277.86	22925278.07	22925278.29	0.0089	0.0023
Venus	58055-10-18 02:53 G	22925503.42	22925503.62	22925503.83	0.0089	0.0030
Venus	58056-05-30 16:05 G	22925728.97	22925729.17	22925729.38	0.0089	0.0036
Venus	58057-01-11 05:17 G	22925954.53	22925954.72	22925954.92	0.0089	0.0042
Venus	58057-08-24 18:29 G	22926180.09	22926180.27	22926180.46	0.0089	0.0048
Venus	58058-04-07 07:41 G	22926405.66	22926405.82	22926406.01	0.0089	0.0054
Venus	58058-11-18 20:53 G	22926631.22	22926631.37	22926631.54	0.0089	0.0060
Venus	58059-07-02 10:05 G	22926856.79	22926856.92	22926857.08	0.0089	0.0066
Venus	58060-02-12 23:17 G	22927082.36	22927082.47	22927082.62	0.0089	0.0072
Venus	58060-09-25 12:43 G	22927307.94	22927308.03	22927308.15	0.0089	0.0078
Venus	58061-05-09 01:55 G	22927533.52	22927533.58	22927533.68	0.0089	0.0084

Venus	58061-12-20 15:22 G	22927759.14	22927759.14	22927759.17	0.0089	0.0089
Mars	58071-05-28 07:55 G	22931204.60	22931204.83	22931205.10	0.0090	0.0061
Mercury	58105-11-01 03:22 G	22943779.61	22943779.64	22943779.70	0.0089	0.0084
Mercury	58106-01-28 04:48 G	22943867.64	22943867.70	22943867.78	0.0089	0.0076
Mercury	58106-04-26 06:14 G	22943955.69	22943955.76	22943955.86	0.0089	0.0068
Mercury	58106-07-23 07:41 G	22944043.73	22944043.82	22944043.93	0.0089	0.0060
Mercury	58106-10-19 09:07 G	22944131.78	22944131.88	22944132.00	0.0089	0.0052
Mercury	58107-01-15 10:34 G	22944219.83	22944219.94	22944220.07	0.0089	0.0044
Mercury	58107-04-13 12:00 G	22944307.88	22944308.00	22944308.13	0.0089	0.0036
Mercury	58107-07-10 13:41 G	22944395.94	22944396.07	22944396.20	0.0089	0.0027
Mercury	58107-10-06 15:07 G	22944483.99	22944484.13	22944484.26	0.0089	0.0019
Mercury	58108-01-02 16:19 G	22944572.05	22944572.18	22944572.32	0.0089	0.0012
Mercury	58108-03-30 17:46 G	22944660.11	22944660.24	22944660.38	0.0089	0.0004
Mercury	58108-06-26 19:12 G	22944748.17	22944748.30	22944748.43	0.0089	0.0005
Mercury	58108-09-22 20:38 G	22944836.23	22944836.36	22944836.49	0.0089	0.0013
Mercury	58108-12-19 21:50 G	22944924.28	22944924.41	22944924.55	0.0089	0.0021
Mercury	58109-03-17 23:17 G	22945012.35	22945012.47	22945012.60	0.0089	0.0028
Mercury	58109-06-14 00:43 G	22945100.41	22945100.53	22945100.65	0.0089	0.0036
Mercury	58109-09-10 01:55 G	22945188.47	22945188.58	22945188.70	0.0089	0.0044
Mercury	58109-12-07 03:07 G	22945276.54	22945276.63	22945276.75	0.0089	0.0052
Mercury	58110-03-05 04:48 G	22945364.60	22945364.70	22945364.80	0.0089	0.0059
Mercury	58110-06-01 06:00 G	22945452.67	22945452.75	22945452.84	0.0089	0.0067
Mercury	58110-08-28 07:12 G	22945540.74	22945540.80	22945540.88	0.0089	0.0075
Mercury	58110-11-24 08:38 G	22945628.82	22945628.86	22945628.92	0.0089	0.0083
Earth	58115-04-05 05:17 G	22947221.65	22947221.72	22947221.81	0.0089	0.0084
Moon	58115-04-05 06:14 G	22947221.71	22947221.76	22947221.85	0.0089	0.0085 *
Moon	58116-04-06 14:53 G	22947588.93	22947589.12	22947589.36	0.0089	0.0053
Earth	58116-04-06 17:02 G	22947589.02	22947589.21	22947589.43	0.0089	0.0054 *
Earth	58117-04-09 05:02 G	22947956.47	22947956.71	22947956.97	0.0089	0.0024
Moon	58117-04-09 08:10 G	22947956.61	22947956.84	22947957.09	0.0089	0.0025 *

Moon	58118-04-11 13:26 G	22948323.81	22948324.06	22948324.33	0.0089	0.0008
Earth	58118-04-11 17:02 G	22948323.96	22948324.21	22948324.47	0.0089	0.0007 *
Earth	58119-04-14 04:48 G	22948691.47	22948691.70	22948691.94	0.0089	0.0037
Moon	58119-04-14 08:10 G	22948691.62	22948691.84	22948692.09	0.0089	0.0035 *
Moon	58120-04-15 13:26 G	22949058.91	22949059.06	22949059.22	0.0089	0.0069
Earth	58120-04-15 16:19 G	22949059.03	22949059.18	22949059.37	0.0089	0.0068 *
Venus	58124-12-17 02:53 G	22950765.58	22950765.62	22950765.71	0.0088	0.0085
Venus	58125-07-30 16:05 G	22950991.09	22950991.17	22950991.28	0.0088	0.0079
Venus	58126-03-13 05:31 G	22951216.61	22951216.73	22951216.86	0.0088	0.0073
Venus	58126-10-24 18:00 G	22951442.13	22951442.25	22951442.42	0.0088	0.0068
Venus	58127-06-07 07:12 G	22951667.66	22951667.80	22951667.97	0.0088	0.0062
Venus	58128-01-18 20:24 G	22951893.18	22951893.35	22951893.52	0.0088	0.0056
Venus	58128-08-31 09:22 G	22952118.71	22952118.89	22952119.08	0.0088	0.0050
Venus	58129-04-13 21:50 G	22952344.24	22952344.41	22952344.62	0.0088	0.0045
Venus	58129-11-25 11:02 G	22952569.77	22952569.96	22952570.17	0.0088	0.0038
Venus	58130-07-09 00:00 G	22952795.30	22952795.50	22952795.71	0.0088	0.0032
Venus	58131-02-19 12:58 G	22953020.84	22953021.04	22953021.26	0.0088	0.0027
Venus	58131-10-03 01:55 G	22953246.37	22953246.58	22953246.80	0.0088	0.0021
Venus	58132-05-15 14:38 G	22953471.90	22953472.11	22953472.34	0.0088	0.0015
Venus	58132-12-27 03:36 G	22953697.43	22953697.65	22953697.87	0.0088	0.0009
Venus	58133-08-09 16:34 G	22953922.97	22953923.19	22953923.41	0.0088	0.0003
Venus	58134-03-23 05:31 G	22954148.51	22954148.73	22954148.95	0.0088	0.0003
Venus	58134-11-03 18:14 G	22954374.05	22954374.26	22954374.49	0.0088	0.0009
Venus	58135-06-17 06:58 G	22954599.58	22954599.79	22954600.02	0.0088	0.0015
Venus	58136-01-28 19:55 G	22954825.12	22954825.33	22954825.55	0.0088	0.0021
Venus	58136-09-10 08:38 G	22955050.66	22955050.86	22955051.08	0.0088	0.0027
Venus	58137-04-23 21:50 G	22955276.21	22955276.41	22955276.62	0.0088	0.0032
Venus	58137-12-05 10:34 G	22955501.75	22955501.94	22955502.14	0.0088	0.0038
Venus	58138-07-18 23:17 G	22955727.29	22955727.47	22955727.67	0.0088	0.0044
Venus	58139-03-01 12:00 G	22955952.84	22955953.00	22955953.20	0.0088	0.0050

Venus	58139-10-13 01:12 G	22956178.38	22956178.55	22956178.72	0.0088	0.0055
Venus	58140-05-25 13:41 G	22956403.93	22956404.07	22956404.24	0.0088	0.0061
Venus	58141-01-06 02:10 G	22956629.47	22956629.59	22956629.76	0.0088	0.0067
Venus	58141-08-19 15:22 G	22956855.02	22956855.14	22956855.27	0.0088	0.0072
Venus	58142-04-02 03:50 G	22957080.58	22957080.66	22957080.78	0.0088	0.0078
Venus	58142-11-13 17:02 G	22957306.15	22957306.21	22957306.28	0.0088	0.0083
Mars	58153-03-25 01:55 G	22961090.35	22961090.58	22961090.80	0.0088	0.0055
Mars	58155-02-16 11:31 G	22961783.81	22961783.98	22961784.20	0.0088	0.0065
Mercury	58189-12-28 12:29 G	22974517.97	22974518.02	22974518.11	0.0088	0.0082
Mercury	58190-03-26 15:50 G	22974606.07	22974606.16	22974606.29	0.0088	0.0071
Mercury	58190-06-22 19:26 G	22974694.18	22974694.31	22974694.45	0.0088	0.0060
Mercury	58190-09-18 22:34 G	22974782.30	22974782.44	22974782.61	0.0088	0.0050
Mercury	58190-12-16 01:55 G	22974870.42	22974870.58	22974870.76	0.0088	0.0039
Mercury	58191-03-14 05:17 G	22974958.55	22974958.72	22974958.91	0.0088	0.0029
Mercury	58191-06-10 08:53 G	22975046.68	22975046.87	22975047.06	0.0088	0.0018
Mercury	58191-09-06 12:14 G	22975134.82	22975135.01	22975135.20	0.0088	0.0007
Mercury	58191-12-03 15:36 G	22975222.96	22975223.15	22975223.34	0.0088	0.0004
Mercury	58192-02-29 18:58 G	22975311.10	22975311.29	22975311.48	0.0088	0.0015
Mercury	58192-05-27 22:05 G	22975399.25	22975399.42	22975399.61	0.0088	0.0026
Mercury	58192-08-24 01:26 G	22975487.40	22975487.56	22975487.75	0.0088	0.0037
Mercury	58192-11-20 05:17 G	22975575.56	22975575.72	22975575.88	0.0088	0.0048
Mercury	58193-02-16 08:38 G	22975663.72	22975663.86	22975664.00	0.0088	0.0059
Mercury	58193-05-15 12:00 G	22975751.88	22975752.00	22975752.12	0.0088	0.0070
Mercury	58193-08-11 15:22 G	22975840.07	22975840.14	22975840.22	0.0088	0.0081
Earth	58198-10-07 14:24 G	22977723.03	22977723.10	22977723.19	0.0088	0.0084
Moon	58198-10-07 17:31 G	22977723.20	22977723.23	22977723.29	0.0088	0.0087
Moon	58199-10-09 22:19 G	22978090.24	22978090.43	22978090.66	0.0089	0.0052
Earth	58199-10-10 01:55 G	22978090.39	22978090.58	22978090.79	0.0089	0.0054 *
Earth	58200-10-12 13:12 G	22978457.81	22978458.05	22978458.31	0.0089	0.0024
Moon	58200-10-12 17:17 G	22978457.97	22978458.22	22978458.47	0.0089	0.0026 *



Moon	58201-10-14 21:50 G	22978825.17	22978825.41	22978825.67	0.0089	0.0010
Earth	58201-10-15 00:58 G	22978825.28	22978825.54	22978825.80	0.0089	0.0007 *
Earth	58202-10-17 12:00 G	22979192.78	22979193.00	22979193.25	0.0089	0.0037
Moon	58202-10-17 14:24 G	22979192.88	22979193.10	22979193.36	0.0089	0.0036 *
Moon	58203-10-19 22:34 G	22979560.29	22979560.44	22979560.60	0.0089	0.0069
Earth	58203-10-19 23:31 G	22979560.32	22979560.48	22979560.66	0.0089	0.0067 *
Venus	58208-04-28 00:43 G	22981212.49	22981212.53	22981212.63	0.0089	0.0084
Venus	58208-12-09 13:55 G	22981438.00	22981438.08	22981438.20	0.0089	0.0078
Venus	58209-07-23 03:22 G	22981663.52	22981663.64	22981663.77	0.0089	0.0072
Venus	58210-03-05 16:34 G	22981889.05	22981889.19	22981889.34	0.0089	0.0066
Venus	58210-10-17 05:02 G	22982114.57	22982114.71	22982114.89	0.0089	0.0061
Venus	58211-05-30 18:14 G	22982340.10	22982340.26	22982340.45	0.0089	0.0055
Venus	58212-01-11 07:26 G	22982565.64	22982565.81	22982566.00	0.0089	0.0049
Venus	58212-08-23 20:38 G	22982791.18	22982791.36	22982791.56	0.0089	0.0043
Venus	58213-04-06 09:50 G	22983016.72	22983016.91	22983017.12	0.0089	0.0037
Venus	58213-11-17 23:02 G	22983242.26	22983242.46	22983242.67	0.0089	0.0031
Venus	58214-07-01 12:00 G	22983467.80	22983468.00	22983468.22	0.0089	0.0025
Venus	58215-02-12 01:12 G	22983693.34	22983693.55	22983693.77	0.0089	0.0019
Venus	58215-09-25 14:38 G	22983918.89	22983919.11	22983919.33	0.0089	0.0013
Venus	58216-05-08 03:36 G	22984144.44	22984144.65	22984144.88	0.0089	0.0008
Venus	58216-12-19 16:48 G	22984369.98	22984370.20	22984370.42	0.0089	0.0002
Venus	58217-08-02 06:00 G	22984595.54	22984595.75	22984595.97	0.0089	0.0005
Venus	58218-03-15 19:12 G	22984821.08	22984821.30	22984821.52	0.0089	0.0011
Venus	58218-10-27 08:10 G	22985046.64	22985046.84	22985047.07	0.0089	0.0018
Venus	58219-06-09 21:22 G	22985272.18	22985272.39	22985272.61	0.0089	0.0023
Venus	58220-01-21 10:19 G	22985497.74	22985497.93	22985498.15	0.0089	0.0030
Venus	58220-09-02 23:31 G	22985723.29	22985723.48	22985723.70	0.0089	0.0036
Venus	58221-04-16 12:43 G	22985948.85	22985949.03	22985949.24	0.0089	0.0042
Venus	58221-11-28 01:55 G	22986174.41	22986174.58	22986174.78	0.0089	0.0047
Venus	58222-07-11 14:53 G	22986399.96	22986400.12	22986400.32	0.0089	0.0054

Venus	58223-02-22 04:05 G	22986625.53	22986625.67	22986625.85	0.0089	0.0060
Venus	58223-10-05 17:17 G	22986851.10	22986851.22	22986851.39	0.0089	0.0066
Venus	58224-05-18 06:58 G	22987076.66	22987076.79	22987076.93	0.0089	0.0071
Venus	58224-12-29 20:10 G	22987302.24	22987302.34	22987302.46	0.0089	0.0077
Venus	58225-08-12 09:22 G	22987527.82	22987527.89	22987527.98	0.0089	0.0083
Venus	58226-03-25 22:19 G	22987753.43	22987753.43	22987753.49	0.0089	0.0089
Mars	58236-12-06 17:46 G	22991661.90	22991662.24	22991662.57	0.0090	0.0022
Mercury	58270-07-30 02:24 G	23003950.56	23003950.60	23003950.66	0.0089	0.0082
Mercury	58270-10-26 03:50 G	23004038.60	23004038.66	23004038.75	0.0089	0.0074
Mercury	58271-01-22 05:17 G	23004126.64	23004126.72	23004126.82	0.0089	0.0066
Mercury	58271-04-20 06:43 G	23004214.69	23004214.78	23004214.89	0.0089	0.0058
Mercury	58271-07-17 08:10 G	23004302.74	23004302.84	23004302.96	0.0089	0.0050
Mercury	58271-10-13 09:36 G	23004390.79	23004390.90	23004391.03	0.0089	0.0042
Mercury	58272-01-09 11:02 G	23004478.84	23004478.96	23004479.09	0.0089	0.0034
Mercury	58272-04-06 12:29 G	23004566.90	23004567.02	23004567.16	0.0089	0.0026
Mercury	58272-07-03 13:55 G	23004654.95	23004655.08	23004655.22	0.0089	0.0018
Mercury	58272-09-29 15:22 G	23004743.01	23004743.14	23004743.28	0.0089	0.0010
Mercury	58272-12-26 16:48 G	23004831.07	23004831.20	23004831.34	0.0089	0.0003
Mercury	58273-03-24 18:14 G	23004919.13	23004919.26	23004919.40	0.0089	0.0006
Mercury	58273-06-20 19:41 G	23005007.19	23005007.32	23005007.45	0.0089	0.0014
Mercury	58273-09-16 20:53 G	23005095.25	23005095.37	23005095.51	0.0089	0.0022
Mercury	58273-12-13 22:19 G	23005183.31	23005183.43	23005183.56	0.0089	0.0030
Mercury	58274-03-11 23:46 G	23005271.37	23005271.49	23005271.61	0.0089	0.0037
Mercury	58274-06-08 01:12 G	23005359.43	23005359.55	23005359.66	0.0089	0.0045
Mercury	58274-09-04 02:24 G	23005447.50	23005447.60	23005447.71	0.0089	0.0053
Mercury	58274-12-01 03:36 G	23005535.56	23005535.65	23005535.76	0.0089	0.0061
Mercury	58275-02-27 05:02 G	23005623.63	23005623.71	23005623.80	0.0089	0.0069
Mercury	58275-05-26 06:29 G	23005711.71	23005711.77	23005711.84	0.0089	0.0076
Mercury	58275-08-22 07:41 G	23005799.79	23005799.82	23005799.87	0.0089	0.0084
Earth	58280-04-06 22:05 G	23007489.29	23007489.42	23007489.60	0.0089	0.0071

Moon	58280-04-07 01:41 G	23007489.41	23007489.57	23007489.75	0.0089	0.0066 *
Moon	58281-04-09 06:43 G	23007856.57	23007856.78	23007857.01	0.0089	0.0045
Earth	58281-04-09 10:34 G	23007856.72	23007856.94	23007857.18	0.0089	0.0040 *
Earth	58282-04-11 22:34 G	23008224.18	23008224.44	23008224.70	0.0089	0.0010
Moon	58282-04-12 01:55 G	23008224.32	23008224.58	23008224.84	0.0089	0.0005 *
Moon	58283-04-14 07:26 G	23008591.57	23008591.81	23008592.07	0.0089	0.0017
Earth	58283-04-14 10:19 G	23008591.68	23008591.93	23008592.19	0.0089	0.0021 *
Earth	58284-04-15 22:05 G	23008959.22	23008959.42	23008959.64	0.0089	0.0051
Moon	58284-04-15 23:46 G	23008959.31	23008959.49	23008959.72	0.0089	0.0056 *
Moon	58285-04-18 09:36 G	23009326.79	23009326.90	23009327.03	0.0089	0.0077
Earth	58285-04-18 10:05 G	23009326.82	23009326.92	23009327.03	0.0089	0.0081 *
Venus	58289-03-21 11:17 G	23010759.92	23010759.97	23010760.06	0.0088	0.0084
Venus	58289-11-02 00:29 G	23010985.43	23010985.52	23010985.64	0.0088	0.0078
Venus	58290-06-15 13:12 G	23011210.95	23011211.05	23011211.20	0.0088	0.0073
Venus	58291-01-27 02:24 G	23011436.48	23011436.60	23011436.77	0.0088	0.0067
Venus	58291-09-09 15:36 G	23011662.01	23011662.15	23011662.32	0.0088	0.0061
Venus	58292-04-22 04:48 G	23011887.53	23011887.70	23011887.88	0.0088	0.0055
Venus	58292-12-03 17:31 G	23012113.06	23012113.23	23012113.43	0.0088	0.0049
Venus	58293-07-17 06:29 G	23012338.59	23012338.77	23012338.98	0.0088	0.0044
Venus	58294-02-27 19:41 G	23012564.13	23012564.32	23012564.53	0.0088	0.0038
Venus	58294-10-11 08:53 G	23012789.66	23012789.87	23012790.07	0.0088	0.0032
Venus	58295-05-24 21:22 G	23013015.19	23013015.39	23013015.61	0.0088	0.0026
Venus	58296-01-05 10:19 G	23013240.72	23013240.93	23013241.15	0.0088	0.0020
Venus	58296-08-17 23:17 G	23013466.26	23013466.47	23013466.69	0.0088	0.0014
Venus	58297-03-31 12:14 G	23013691.79	23013692.01	23013692.23	0.0088	0.0009
Venus	58297-11-12 01:12 G	23013917.33	23013917.55	23013917.77	0.0088	0.0003
Venus	58298-06-25 13:55 G	23014142.86	23014143.08	23014143.30	0.0088	0.0003
Venus	58299-02-06 02:53 G	23014368.40	23014368.62	23014368.84	0.0088	0.0009
Venus	58299-09-19 15:36 G	23014593.94	23014594.15	23014594.37	0.0088	0.0015
Venus	58300-05-03 04:19 G	23014819.48	23014819.68	23014819.91	0.0088	0.0021

Venus	58300-12-14 17:02 G	23015045.01	23015045.21	23015045.44	0.0088	0.0027
Venus	58301-07-28 06:14 G	23015270.56	23015270.76	23015270.97	0.0088	0.0032
Venus	58302-03-10 18:58 G	23015496.10	23015496.29	23015496.50	0.0088	0.0038
Venus	58302-10-22 07:41 G	23015721.65	23015721.82	23015722.03	0.0088	0.0044
Venus	58303-06-04 20:24 G	23015947.19	23015947.35	23015947.55	0.0088	0.0050
Venus	58304-01-16 09:36 G	23016172.74	23016172.90	23016173.08	0.0088	0.0055
Venus	58304-08-28 22:19 G	23016398.28	23016398.43	23016398.60	0.0088	0.0061
Venus	58305-04-11 11:02 G	23016623.84	23016623.96	23016624.13	0.0088	0.0067
Venus	58305-11-23 00:00 G	23016849.39	23016849.50	23016849.64	0.0088	0.0072
Venus	58306-07-06 12:29 G	23017074.95	23017075.02	23017075.15	0.0088	0.0078
Venus	58307-02-17 01:41 G	23017300.51	23017300.57	23017300.65	0.0088	0.0083
Mars	58318-10-04 01:12 G	23021547.26	23021547.55	23021547.84	0.0088	0.0012
Mercury	58354-09-26 09:50 G	23034688.85	23034688.91	23034689.00	0.0088	0.0080
Mercury	58354-12-23 13:12 G	23034776.95	23034777.05	23034777.18	0.0088	0.0070
Mercury	58355-03-21 16:19 G	23034865.06	23034865.18	23034865.34	0.0088	0.0059
Mercury	58355-06-17 19:55 G	23034953.18	23034953.33	23034953.49	0.0088	0.0048
Mercury	58355-09-13 23:17 G	23035041.30	23035041.47	23035041.65	0.0088	0.0037
Mercury	58355-12-11 02:24 G	23035129.43	23035129.60	23035129.79	0.0088	0.0027
Mercury	58356-03-08 06:00 G	23035217.57	23035217.75	23035217.94	0.0088	0.0016
Mercury	58356-06-04 09:22 G	23035305.70	23035305.89	23035306.08	0.0088	0.0005
Mercury	58356-08-31 12:43 G	23035393.84	23035394.03	23035394.22	0.0088	0.0006
Mercury	58356-11-27 16:05 G	23035481.99	23035482.17	23035482.36	0.0088	0.0017
Mercury	58357-02-23 19:26 G	23035570.13	23035570.31	23035570.50	0.0088	0.0027
Mercury	58357-05-22 22:48 G	23035658.28	23035658.45	23035658.63	0.0088	0.0038
Mercury	58357-08-19 02:10 G	23035746.44	23035746.59	23035746.75	0.0088	0.0049
Mercury	58357-11-15 05:31 G	23035834.60	23035834.73	23035834.88	0.0088	0.0060
Mercury	58358-02-11 08:53 G	23035922.77	23035922.87	23035922.99	0.0088	0.0071
Mercury	58358-05-10 12:14 G	23036010.96	23036011.01	23036011.09	0.0088	0.0082
Earth	58363-10-11 06:43 G	23037990.64	23037990.78	23037990.94	0.0088	0.0071
Moon	58363-10-11 09:36 G	23037990.79	23037990.90	23037991.07	0.0088	0.0075 *

Moon	58364-10-12 14:53 G	23038357.91	23038358.12	23038358.37	0.0089	0.0038
Earth	58364-10-12 18:00 G	23038358.03	23038358.25	23038358.49	0.0089	0.0041 *
Earth	58365-10-15 05:31 G	23038725.47	23038725.73	23038725.99	0.0089	0.0011
Moon	58365-10-15 06:58 G	23038725.53	23038725.79	23038726.05	0.0089	0.0014 *
Moon	58366-10-17 16:19 G	23039092.95	23039093.18	23039093.43	0.0089	0.0023
Earth	58366-10-17 16:48 G	23039092.96	23039093.20	23039093.46	0.0089	0.0019 *
Jupiter	58367-07-13 13:55 G	23039361.75	23039362.08	23039362.53	0.0089	0.0063
Moon	58367-10-20 03:07 G	23039460.42	23039460.63	23039460.88	0.0089	0.0046
Earth	58367-10-20 03:50 G	23039460.47	23039460.66	23039460.89	0.0089	0.0050 *
Earth	58368-10-21 15:07 G	23039828.04	23039828.13	23039828.26	0.0089	0.0080
Moon	58368-10-21 17:46 G	23039828.16	23039828.24	23039828.33	0.0089	0.0083 *
Venus	58371-12-18 20:10 G	23040981.32	23040981.34	23040981.36	0.0089	0.0088
Venus	58372-07-31 08:38 G	23041206.81	23041206.86	23041206.96	0.0089	0.0083
Venus	58373-03-13 22:05 G	23041432.32	23041432.42	23041432.53	0.0089	0.0077
Venus	58373-10-25 10:34 G	23041657.84	23041657.94	23041658.09	0.0089	0.0072
Venus	58374-06-07 23:46 G	23041883.36	23041883.49	23041883.65	0.0089	0.0066
Venus	58375-01-19 12:58 G	23042108.89	23042109.04	23042109.21	0.0089	0.0060
Venus	58375-09-02 02:10 G	23042334.42	23042334.59	23042334.77	0.0089	0.0054
Venus	58376-04-14 14:53 G	23042559.96	23042560.12	23042560.32	0.0089	0.0049
Venus	58376-11-26 04:05 G	23042785.49	23042785.67	23042785.87	0.0089	0.0043
Venus	58377-07-09 17:02 G	23043011.03	23043011.21	23043011.43	0.0089	0.0037
Venus	58378-02-20 06:14 G	23043236.57	23043236.76	23043236.98	0.0089	0.0031
Venus	58378-10-03 19:26 G	23043462.11	23043462.31	23043462.53	0.0089	0.0025
Venus	58379-05-17 08:38 G	23043687.66	23043687.86	23043688.08	0.0089	0.0019
Venus	58379-12-28 21:50 G	23043913.20	23043913.41	23043913.63	0.0089	0.0013
Venus	58380-08-10 11:17 G	23044138.75	23044138.97	23044139.19	0.0089	0.0007
Venus	58381-03-24 00:29 G	23044364.30	23044364.52	23044364.74	0.0089	0.0001
Venus	58381-11-04 13:41 G	23044589.85	23044590.07	23044590.29	0.0089	0.0005
Venus	58382-06-18 02:38 G	23044815.40	23044815.61	23044815.83	0.0089	0.0011
Venus	58383-01-29 15:50 G	23045040.95	23045041.16	23045041.38	0.0089	0.0017

Venus	58383-09-12 05:02 G	23045266.51	23045266.71	23045266.93	0.0089	0.0023
Venus	58384-04-24 18:00 G	23045492.06	23045492.25	23045492.47	0.0089	0.0030
Venus	58384-12-06 07:12 G	23045717.61	23045717.80	23045718.01	0.0089	0.0035
Venus	58385-07-19 20:10 G	23045943.17	23045943.34	23045943.55	0.0089	0.0042
Venus	58386-03-02 09:50 G	23046168.72	23046168.91	23046169.10	0.0089	0.0047
Venus	58386-10-13 23:02 G	23046394.29	23046394.46	23046394.64	0.0089	0.0053
Venus	58387-05-27 12:00 G	23046619.84	23046620.00	23046620.17	0.0089	0.0059
Venus	58388-01-08 00:58 G	23046845.41	23046845.54	23046845.71	0.0089	0.0065
Venus	58388-08-20 14:10 G	23047070.98	23047071.09	23047071.24	0.0089	0.0071
Venus	58389-04-03 03:22 G	23047296.55	23047296.64	23047296.78	0.0089	0.0077
Venus	58389-11-14 17:02 G	23047522.13	23047522.21	23047522.30	0.0089	0.0082
Venus	58390-06-28 06:00 G	23047747.72	23047747.75	23047747.81	0.0089	0.0088
Mars	58400-07-20 12:00 G	23051422.74	23051423.00	23051423.31	0.0090	0.0050
Mercury	58435-01-29 00:00 G	23064033.50	23064033.50	23064033.51	0.0089	0.0089
Mercury	58435-04-27 01:12 G	23064121.51	23064121.55	23064121.62	0.0089	0.0082
Mercury	58435-07-24 02:38 G	23064209.55	23064209.61	23064209.70	0.0089	0.0074
Mercury	58435-10-20 04:05 G	23064297.59	23064297.67	23064297.78	0.0089	0.0066
Mercury	58436-01-16 05:46 G	23064385.64	23064385.74	23064385.85	0.0089	0.0057
Mercury	58436-04-13 07:12 G	23064473.69	23064473.80	23064473.92	0.0089	0.0049
Mercury	58436-07-10 08:38 G	23064561.75	23064561.86	23064561.99	0.0089	0.0041
Mercury	58436-10-06 10:05 G	23064649.80	23064649.92	23064650.05	0.0089	0.0033
Mercury	58437-01-02 11:31 G	23064737.85	23064737.98	23064738.11	0.0089	0.0025
Mercury	58437-03-31 12:58 G	23064825.91	23064826.04	23064826.17	0.0089	0.0017
Mercury	58437-06-27 14:24 G	23064913.97	23064914.10	23064914.23	0.0089	0.0009
Mercury	58437-09-23 15:50 G	23065002.02	23065002.16	23065002.29	0.0089	0.0001
Mercury	58437-12-20 17:17 G	23065090.08	23065090.22	23065090.35	0.0089	0.0007
Mercury	58438-03-18 18:29 G	23065178.14	23065178.27	23065178.41	0.0089	0.0015
Mercury	58438-06-14 19:55 G	23065266.20	23065266.33	23065266.46	0.0089	0.0023
Mercury	58438-09-10 21:07 G	23065354.26	23065354.38	23065354.52	0.0089	0.0031
Mercury	58438-12-07 22:48 G	23065442.33	23065442.45	23065442.57	0.0089	0.0039

Mercury	58439-03-06 00:00 G	23065530.39	23065530.50	23065530.62	0.0089	0.0046
Mercury	58439-06-02 01:12 G	23065618.46	23065618.55	23065618.67	0.0089	0.0054
Mercury	58439-08-29 02:38 G	23065706.52	23065706.61	23065706.71	0.0089	0.0062
Mercury	58439-11-25 03:50 G	23065794.59	23065794.66	23065794.76	0.0089	0.0070
Mercury	58440-02-21 05:31 G	23065882.67	23065882.73	23065882.79	0.0089	0.0077
Mercury	58440-05-19 06:43 G	23065970.75	23065970.78	23065970.82	0.0089	0.0085
Moon	58444-04-06 23:17 G	23067389.44	23067389.47	23067389.53	0.0089	0.0087
Earth	58444-04-07 02:24 G	23067389.59	23067389.60	23067389.66	0.0089	0.0088
Earth	58445-04-09 14:24 G	23067756.93	23067757.10	23067757.32	0.0089	0.0058
Moon	58445-04-09 18:00 G	23067757.07	23067757.25	23067757.47	0.0089	0.0057 *
Moon	58446-04-12 00:58 G	23068124.30	23068124.54	23068124.78	0.0089	0.0026
Earth	58446-04-12 02:53 G	23068124.38	23068124.62	23068124.87	0.0089	0.0027 *
Earth	58447-04-14 14:53 G	23068491.87	23068492.12	23068492.38	0.0089	0.0004
Moon	58447-04-14 16:05 G	23068491.91	23068492.17	23068492.44	0.0089	0.0004 *
Earth	58448-04-16 02:53 G	23068859.39	23068859.62	23068859.86	0.0089	0.0034
Moon	58448-04-16 02:38 G	23068859.39	23068859.61	23068859.85	0.0089	0.0034 *
Moon	58449-04-18 12:43 G	23069226.86	23069227.03	23069227.23	0.0089	0.0064
Earth	58449-04-18 14:10 G	23069226.94	23069227.09	23069227.29	0.0089	0.0065 *
Venus	58452-11-10 06:43 G	23070528.77	23070528.78	23070528.81	0.0089	0.0088
Venus	58453-06-23 19:26 G	23070754.25	23070754.31	23070754.41	0.0088	0.0083
Venus	58454-02-04 08:53 G	23070979.77	23070979.87	23070979.98	0.0088	0.0077
Venus	58454-09-17 21:36 G	23071205.29	23071205.40	23071205.55	0.0088	0.0072
Venus	58455-05-01 10:48 G	23071430.81	23071430.95	23071431.11	0.0088	0.0066
Venus	58455-12-13 00:00 G	23071656.34	23071656.50	23071656.66	0.0088	0.0060
Venus	58456-07-25 12:43 G	23071881.87	23071882.03	23071882.22	0.0088	0.0054
Venus	58457-03-08 01:55 G	23072107.41	23072107.58	23072107.78	0.0088	0.0049
Venus	58457-10-19 15:07 G	23072332.94	23072333.13	23072333.33	0.0088	0.0043
Venus	58458-06-02 03:50 G	23072558.48	23072558.66	23072558.88	0.0088	0.0037
Venus	58459-01-13 16:48 G	23072784.01	23072784.20	23072784.42	0.0088	0.0032
Venus	58459-08-27 06:00 G	23073009.54	23073009.75	23073009.97	0.0088	0.0025

Venus	58460-04-08 18:58 G	23073235.08	23073235.29	23073235.51	0.0088	0.0020
Venus	58460-11-20 07:55 G	23073460.62	23073460.83	23073461.05	0.0088	0.0014
Venus	58461-07-03 20:53 G	23073686.15	23073686.37	23073686.59	0.0088	0.0008
Venus	58462-02-14 09:50 G	23073911.69	23073911.91	23073912.13	0.0088	0.0002
Venus	58462-09-27 22:34 G	23074137.23	23074137.44	23074137.67	0.0088	0.0005
Venus	58463-05-11 11:31 G	23074362.76	23074362.98	23074363.20	0.0088	0.0009
Venus	58463-12-23 00:14 G	23074588.30	23074588.51	23074588.73	0.0088	0.0015
Venus	58464-08-04 12:58 G	23074813.83	23074814.04	23074814.26	0.0088	0.0021
Venus	58465-03-18 01:55 G	23075039.38	23075039.58	23075039.80	0.0088	0.0027
Venus	58465-10-29 14:53 G	23075264.92	23075265.12	23075265.33	0.0088	0.0032
Venus	58466-06-12 03:36 G	23075490.46	23075490.65	23075490.86	0.0088	0.0038
Venus	58467-01-23 16:19 G	23075716.00	23075716.18	23075716.38	0.0088	0.0044
Venus	58467-09-06 04:48 G	23075941.54	23075941.70	23075941.91	0.0088	0.0050
Venus	58468-04-18 18:00 G	23076167.09	23076167.25	23076167.44	0.0088	0.0055
Venus	58468-11-30 06:43 G	23076392.64	23076392.78	23076392.96	0.0088	0.0061
Venus	58469-07-13 19:55 G	23076618.19	23076618.33	23076618.48	0.0088	0.0066
Venus	58470-02-24 08:24 G	23076843.74	23076843.85	23076844.00	0.0088	0.0072
Venus	58470-10-07 21:36 G	23077069.30	23077069.40	23077069.51	0.0088	0.0077
Venus	58471-05-21 09:50 G	23077294.87	23077294.91	23077295.01	0.0088	0.0083
Mars	58482-05-19 12:58 G	23081310.79	23081311.04	23081311.30	0.0088	0.0041
Mars	58484-04-12 00:00 G	23082004.41	23082004.50	23082004.65	0.0088	0.0080
Mercury	58519-06-24 07:12 G	23094859.72	23094859.80	23094859.89	0.0088	0.0078
Mercury	58519-09-20 10:05 G	23094947.83	23094947.92	23094948.06	0.0088	0.0069
Mercury	58519-12-17 13:41 G	23095035.94	23095036.07	23095036.22	0.0088	0.0057
Mercury	58520-03-14 17:17 G	23095124.06	23095124.22	23095124.38	0.0088	0.0047
Mercury	58520-06-10 20:10 G	23095212.18	23095212.34	23095212.53	0.0088	0.0037
Mercury	58520-09-06 23:46 G	23095300.31	23095300.49	23095300.68	0.0088	0.0025
Mercury	58520-12-04 03:07 G	23095388.45	23095388.63	23095388.82	0.0088	0.0014
Mercury	58521-03-02 06:29 G	23095476.58	23095476.77	23095476.96	0.0088	0.0004
Mercury	58521-05-29 09:50 G	23095564.72	23095564.91	23095565.10	0.0088	0.0007



Mercury	58521-08-25 13:12 G	23095652.87	23095653.05	23095653.24	0.0088	0.0018
Mercury	58521-11-21 16:19 G	23095741.01	23095741.18	23095741.37	0.0088	0.0029
Mercury	58522-02-17 19:41 G	23095829.16	23095829.32	23095829.50	0.0088	0.0040
Mercury	58522-05-16 23:02 G	23095917.32	23095917.46	23095917.63	0.0088	0.0051
Mercury	58522-08-13 02:53 G	23096005.48	23096005.62	23096005.75	0.0088	0.0062
Mercury	58522-11-09 06:14 G	23096093.65	23096093.76	23096093.87	0.0088	0.0073
Mercury	58523-02-05 09:36 G	23096181.84	23096181.90	23096181.96	0.0088	0.0084
Earth	58527-10-11 11:46 G	23097890.98	23097890.99	23097891.05	0.0088	0.0088
Earth	58528-10-12 23:17 G	23098258.29	23098258.47	23098258.68	0.0088	0.0058
Moon	58528-10-13 00:14 G	23098258.33	23098258.51	23098258.74	0.0088	0.0055 *
Earth	58529-10-15 10:34 G	23098625.71	23098625.94	23098626.20	0.0089	0.0028
Moon	58529-10-15 11:02 G	23098625.74	23098625.96	23098626.21	0.0089	0.0032 *
Moon	58530-10-17 20:24 G	23098993.09	23098993.35	23098993.62	0.0089	0.0006
Earth	58530-10-17 22:05 G	23098993.16	23098993.42	23098993.68	0.0089	0.0002 *
Earth	58531-10-20 09:07 G	23099360.65	23099360.88	23099361.13	0.0089	0.0033
Moon	58531-10-20 11:17 G	23099360.75	23099360.97	23099361.22	0.0089	0.0030 *
Moon	58532-10-21 16:34 G	23099728.05	23099728.19	23099728.39	0.0089	0.0067
Earth	58532-10-21 20:10 G	23099728.18	23099728.34	23099728.54	0.0089	0.0063 *
Jupiter	58533-09-13 13:41 G	23100054.53	23100055.07	23100055.63	0.0089	0.0012
Venus	58536-03-22 03:36 G	23100975.64	23100975.65	23100975.71	0.0089	0.0088
Venus	58536-11-02 16:48 G	23101201.13	23101201.20	23101201.30	0.0089	0.0082
Venus	58537-06-16 06:00 G	23101426.64	23101426.75	23101426.86	0.0089	0.0076
Venus	58538-01-27 18:29 G	23101652.16	23101652.27	23101652.42	0.0089	0.0071
Venus	58538-09-10 07:55 G	23101877.69	23101877.83	23101877.99	0.0089	0.0065
Venus	58539-04-23 21:07 G	23102103.22	23102103.38	23102103.54	0.0089	0.0059
Venus	58539-12-05 09:36 G	23102328.74	23102328.90	23102329.09	0.0089	0.0054
Venus	58540-07-17 22:48 G	23102554.28	23102554.45	23102554.65	0.0089	0.0048
Venus	58541-02-28 12:00 G	23102779.81	23102780.00	23102780.20	0.0089	0.0042
Venus	58541-10-12 00:58 G	23103005.35	23103005.54	23103005.75	0.0089	0.0036
Venus	58542-05-25 14:10 G	23103230.88	23103231.09	23103231.30	0.0089	0.0031

Venus	58543-01-06 02:53 G	23103456.42	23103456.62	23103456.84	0.0089	0.0025
Venus	58543-08-19 16:05 G	23103681.97	23103682.17	23103682.40	0.0089	0.0019
Venus	58544-04-01 05:17 G	23103907.51	23103907.72	23103907.95	0.0089	0.0013
Venus	58544-11-12 18:29 G	23104133.06	23104133.27	23104133.49	0.0089	0.0007
Venus	58545-06-26 07:41 G	23104358.60	23104358.82	23104359.04	0.0089	0.0001
Venus	58546-02-06 20:53 G	23104584.15	23104584.37	23104584.59	0.0089	0.0005
Venus	58546-09-20 10:05 G	23104809.70	23104809.92	23104810.14	0.0089	0.0011
Venus	58547-05-03 23:02 G	23105035.26	23105035.46	23105035.69	0.0089	0.0017
Venus	58547-12-15 12:14 G	23105260.81	23105261.01	23105261.23	0.0089	0.0023
Venus	58548-07-28 01:12 G	23105486.36	23105486.55	23105486.78	0.0089	0.0030
Venus	58549-03-10 14:53 G	23105711.92	23105712.12	23105712.32	0.0089	0.0035
Venus	58549-10-22 03:50 G	23105937.47	23105937.66	23105937.86	0.0089	0.0041
Venus	58550-06-04 17:02 G	23106163.03	23106163.21	23106163.40	0.0089	0.0047
Venus	58551-01-16 06:00 G	23106388.59	23106388.75	23106388.94	0.0089	0.0053
Venus	58551-08-29 19:12 G	23106614.15	23106614.30	23106614.48	0.0089	0.0059
Venus	58552-04-11 08:53 G	23106839.72	23106839.87	23106840.02	0.0089	0.0064
Venus	58552-11-22 21:50 G	23107065.28	23107065.41	23107065.55	0.0089	0.0070
Venus	58553-07-06 10:34 G	23107290.85	23107290.94	23107291.08	0.0089	0.0076
Venus	58554-02-16 23:46 G	23107516.42	23107516.49	23107516.60	0.0089	0.0082
Venus	58554-09-30 13:26 G	23107742.02	23107742.06	23107742.12	0.0089	0.0087
Mars	58566-01-28 21:22 G	23111880.09	23111880.39	23111880.72	0.0090	0.0034
Mercury	58599-10-26 22:48 G	23124204.44	23124204.45	23124204.48	0.0089	0.0088
Mercury	58600-01-23 00:14 G	23124292.46	23124292.51	23124292.58	0.0089	0.0080
Mercury	58600-04-21 01:41 G	23124380.50	23124380.57	23124380.66	0.0089	0.0072
Mercury	58600-07-18 03:07 G	23124468.55	23124468.63	23124468.74	0.0089	0.0064
Mercury	58600-10-14 04:34 G	23124556.60	23124556.69	23124556.81	0.0089	0.0056
Mercury	58601-01-10 06:00 G	23124644.65	23124644.75	23124644.88	0.0089	0.0048
Mercury	58601-04-08 07:41 G	23124732.70	23124732.82	23124732.94	0.0089	0.0040
Mercury	58601-07-05 09:07 G	23124820.75	23124820.88	23124821.01	0.0089	0.0032
Mercury	58601-10-01 10:19 G	23124908.81	23124908.93	23124909.07	0.0089	0.0024

Mercury	58601-12-28 11:46 G	23124996.86	23124996.99	23124997.13	0.0089	0.0016
Mercury	58602-03-26 13:26 G	23125084.92	23125085.06	23125085.19	0.0089	0.0008
Mercury	58602-06-22 14:38 G	23125172.98	23125173.11	23125173.25	0.0089	0.0003
Mercury	58602-09-18 16:05 G	23125261.04	23125261.17	23125261.31	0.0089	0.0008
Mercury	58602-12-15 17:31 G	23125349.10	23125349.23	23125349.36	0.0089	0.0016
Mercury	58603-03-13 18:43 G	23125437.16	23125437.28	23125437.42	0.0089	0.0024
Mercury	58603-06-09 20:10 G	23125525.22	23125525.34	23125525.47	0.0089	0.0032
Mercury	58603-09-05 21:22 G	23125613.28	23125613.39	23125613.52	0.0089	0.0041
Mercury	58603-12-02 23:02 G	23125701.35	23125701.46	23125701.57	0.0089	0.0047
Mercury	58604-02-29 00:14 G	23125789.41	23125789.51	23125789.62	0.0089	0.0055
Mercury	58604-05-27 01:41 G	23125877.48	23125877.57	23125877.67	0.0089	0.0063
Mercury	58604-08-23 02:53 G	23125965.55	23125965.62	23125965.71	0.0089	0.0071
Mercury	58604-11-19 04:34 G	23126053.63	23126053.69	23126053.75	0.0089	0.0078
Mercury	58605-02-15 05:46 G	23126141.72	23126141.74	23126141.78	0.0089	0.0086
Moon	58609-04-10 16:48 G	23127657.07	23127657.20	23127657.37	0.0089	0.0071
Earth	58609-04-10 18:29 G	23127657.16	23127657.27	23127657.43	0.0089	0.0075 *
Earth	58610-04-13 07:12 G	23128024.58	23128024.80	23128025.02	0.0089	0.0044
Moon	58610-04-13 06:58 G	23128024.59	23128024.79	23128025.03	0.0089	0.0049 *
Earth	58611-04-15 19:12 G	23128392.05	23128392.30	23128392.56	0.0089	0.0014
Moon	58611-04-15 20:24 G	23128392.10	23128392.35	23128392.60	0.0089	0.0010 *
Moon	58612-04-17 05:31 G	23128759.47	23128759.73	23128759.99	0.0089	0.0012
Earth	58612-04-17 07:12 G	23128759.55	23128759.80	23128760.06	0.0089	0.0017 *
Earth	58613-04-19 19:12 G	23129127.08	23129127.30	23129127.52	0.0089	0.0047
Moon	58613-04-19 22:05 G	23129127.23	23129127.42	23129127.64	0.0089	0.0052 *
Moon	58614-04-22 03:36 G	23129494.51	23129494.65	23129494.81	0.0089	0.0073
Earth	58614-04-22 06:43 G	23129494.68	23129494.78	23129494.93	0.0089	0.0078 *
Venus	58617-02-13 14:53 G	23130523.08	23130523.12	23130523.16	0.0089	0.0087
Venus	58617-09-27 03:36 G	23130748.58	23130748.65	23130748.75	0.0089	0.0082
Venus	58618-05-10 16:19 G	23130974.09	23130974.18	23130974.31	0.0089	0.0077
Venus	58618-12-22 05:31 G	23131199.61	23131199.73	23131199.88	0.0088	0.0071

Venus	58619-08-04 18:43 G	23131425.14	23131425.28	23131425.44	0.0088	0.0065
Venus	58620-03-17 07:41 G	23131650.67	23131650.82	23131651.00	0.0088	0.0059
Venus	58620-10-28 20:53 G	23131876.20	23131876.37	23131876.55	0.0088	0.0054
Venus	58621-06-11 10:05 G	23132101.73	23132101.92	23132102.10	0.0088	0.0048
Venus	58622-01-22 22:48 G	23132327.27	23132327.45	23132327.66	0.0088	0.0042
Venus	58622-09-05 11:46 G	23132552.80	23132552.99	23132553.21	0.0088	0.0037
Venus	58623-04-19 00:58 G	23132778.34	23132778.54	23132778.75	0.0088	0.0031
Venus	58623-11-30 13:55 G	23133003.88	23133004.08	23133004.30	0.0088	0.0025
Venus	58624-07-13 02:53 G	23133229.41	23133229.62	23133229.84	0.0088	0.0019
Venus	58625-02-23 16:05 G	23133454.96	23133455.17	23133455.39	0.0088	0.0013
Venus	58625-10-07 05:02 G	23133680.49	23133680.71	23133680.93	0.0088	0.0008
Venus	58626-05-20 18:00 G	23133906.03	23133906.25	23133906.47	0.0088	0.0002
Venus	58627-01-01 06:58 G	23134131.57	23134131.79	23134132.01	0.0088	0.0004
Venus	58627-08-14 19:41 G	23134357.11	23134357.32	23134357.54	0.0088	0.0010
Venus	58628-03-27 08:53 G	23134582.65	23134582.87	23134583.09	0.0088	0.0015
Venus	58628-11-07 21:36 G	23134808.19	23134808.40	23134808.62	0.0088	0.0021
Venus	58629-06-21 10:19 G	23135033.73	23135033.93	23135034.15	0.0088	0.0027
Venus	58630-02-01 23:17 G	23135259.27	23135259.47	23135259.68	0.0088	0.0033
Venus	58630-09-15 12:00 G	23135484.81	23135485.00	23135485.21	0.0088	0.0038
Venus	58631-04-29 00:43 G	23135710.35	23135710.53	23135710.74	0.0088	0.0044
Venus	58631-12-10 13:55 G	23135935.90	23135936.08	23135936.26	0.0088	0.0049
Venus	58632-07-23 02:24 G	23136161.44	23136161.60	23136161.78	0.0088	0.0055
Venus	58633-03-05 15:07 G	23136386.99	23136387.13	23136387.31	0.0088	0.0061
Venus	58633-10-17 04:19 G	23136612.54	23136612.68	23136612.83	0.0088	0.0066
Venus	58634-05-30 16:48 G	23136838.10	23136838.20	23136838.35	0.0088	0.0072
Venus	58635-01-11 05:46 G	23137063.65	23137063.74	23137063.86	0.0088	0.0077
Venus	58635-08-24 18:58 G	23137289.22	23137289.29	23137289.36	0.0088	0.0082
Venus	58636-04-06 07:41 G	23137514.82	23137514.82	23137514.84	0.0088	0.0088
Mars	58647-11-28 11:31 G	23141767.72	23141767.98	23141768.27	0.0088	0.0027
Mercury	58683-12-24 00:58 G	23154942.53	23154942.54	23154942.59	0.0088	0.0087

Mercury	58684-03-21 04:34 G	23155030.61	23155030.69	23155030.79	0.0088	0.0076
Mercury	58684-06-17 07:41 G	23155118.71	23155118.82	23155118.96	0.0088	0.0066
Mercury	58684-09-13 11:02 G	23155206.82	23155206.96	23155207.12	0.0088	0.0055
Mercury	58684-12-10 14:10 G	23155294.94	23155295.09	23155295.27	0.0088	0.0045
Mercury	58685-03-08 17:31 G	23155383.07	23155383.23	23155383.42	0.0088	0.0035
Mercury	58685-06-04 21:07 G	23155471.20	23155471.38	23155471.56	0.0088	0.0023
Mercury	58685-09-01 00:14 G	23155559.33	23155559.51	23155559.71	0.0088	0.0013
Mercury	58685-11-28 03:50 G	23155647.47	23155647.66	23155647.85	0.0088	0.0002
Mercury	58686-02-24 06:58 G	23155735.61	23155735.79	23155735.99	0.0088	0.0009
Mercury	58686-05-23 10:19 G	23155823.75	23155823.93	23155824.12	0.0088	0.0020
Mercury	58686-08-19 13:41 G	23155911.90	23155912.07	23155912.25	0.0088	0.0031
Mercury	58686-11-15 17:02 G	23156000.05	23156000.21	23156000.38	0.0088	0.0042
Mercury	58687-02-11 20:24 G	23156088.21	23156088.35	23156088.51	0.0088	0.0052
Mercury	58687-05-10 23:46 G	23156176.37	23156176.49	23156176.63	0.0088	0.0063
Mercury	58687-08-07 02:53 G	23156264.54	23156264.62	23156264.74	0.0088	0.0075
Mercury	58687-11-03 06:29 G	23156352.74	23156352.77	23156352.83	0.0088	0.0085
Earth	58692-10-13 04:34 G	23158158.57	23158158.69	23158158.84	0.0088	0.0075
Moon	58692-10-13 05:31 G	23158158.62	23158158.73	23158158.86	0.0088	0.0077 *
Moon	58693-10-15 13:26 G	23158525.85	23158526.06	23158526.31	0.0088	0.0043
Earth	58693-10-15 15:50 G	23158525.95	23158526.16	23158526.40	0.0088	0.0045 *
Earth	58694-10-18 03:07 G	23158893.39	23158893.63	23158893.89	0.0088	0.0015
Moon	58694-10-18 06:14 G	23158893.52	23158893.76	23158894.02	0.0088	0.0016 *
Moon	58695-10-20 10:48 G	23159260.71	23159260.95	23159261.22	0.0089	0.0019
Earth	58695-10-20 14:24 G	23159260.85	23159261.10	23159261.36	0.0089	0.0016 *
Earth	58696-10-22 01:26 G	23159628.35	23159628.56	23159628.79	0.0089	0.0046
Moon	58696-10-22 05:02 G	23159628.50	23159628.71	23159628.95	0.0089	0.0044 *
Moon	58697-10-24 10:05 G	23159995.81	23159995.92	23159996.05	0.0089	0.0078
Earth	58697-10-24 12:43 G	23159995.92	23159996.03	23159996.18	0.0089	0.0076 *
Jupiter	58699-11-13 10:48 G	23160745.89	23160745.95	23160746.12	0.0089	0.0087
Venus	58700-06-25 11:31 G	23160969.96	23160969.98	23160970.05	0.0089	0.0087

Venus	58701-02-06 00:43 G	23161195.46	23161195.53	23161195.63	0.0089	0.0081
Venus	58701-09-19 13:41 G	23161420.98	23161421.07	23161421.20	0.0089	0.0076
Venus	58702-05-03 02:53 G	23161646.50	23161646.62	23161646.76	0.0089	0.0070
Venus	58702-12-14 16:05 G	23161872.02	23161872.17	23161872.32	0.0089	0.0064
Venus	58703-07-28 04:48 G	23162097.55	23162097.70	23162097.88	0.0089	0.0059
Venus	58704-03-09 18:00 G	23162323.08	23162323.25	23162323.43	0.0089	0.0053
Venus	58704-10-21 06:58 G	23162548.61	23162548.79	23162548.99	0.0089	0.0047
Venus	58705-06-03 19:41 G	23162774.15	23162774.32	23162774.53	0.0089	0.0042
Venus	58706-01-15 08:53 G	23162999.68	23162999.87	23163000.08	0.0089	0.0036
Venus	58706-08-28 22:05 G	23163225.22	23163225.42	23163225.64	0.0089	0.0030
Venus	58707-04-11 11:17 G	23163450.76	23163450.97	23163451.18	0.0089	0.0024
Venus	58707-11-23 00:14 G	23163676.30	23163676.51	23163676.73	0.0089	0.0018
Venus	58708-07-05 13:12 G	23163901.84	23163902.05	23163902.27	0.0089	0.0013
Venus	58709-02-16 02:24 G	23164127.38	23164127.60	23164127.82	0.0089	0.0007
Venus	58709-09-29 15:36 G	23164352.93	23164353.15	23164353.37	0.0089	0.0001
Venus	58710-05-13 04:48 G	23164578.48	23164578.70	23164578.92	0.0089	0.0005
Venus	58710-12-24 17:46 G	23164804.02	23164804.24	23164804.46	0.0089	0.0011
Venus	58711-08-07 06:58 G	23165029.58	23165029.79	23165030.01	0.0089	0.0017
Venus	58712-03-19 19:55 G	23165255.13	23165255.33	23165255.55	0.0089	0.0023
Venus	58712-10-31 09:07 G	23165480.68	23165480.88	23165481.10	0.0089	0.0029
Venus	58713-06-13 22:34 G	23165706.24	23165706.44	23165706.64	0.0089	0.0035
Venus	58714-01-25 11:31 G	23165931.79	23165931.98	23165932.18	0.0089	0.0041
Venus	58714-09-08 00:43 G	23166157.36	23166157.53	23166157.73	0.0089	0.0046
Venus	58715-04-21 13:41 G	23166382.91	23166383.07	23166383.27	0.0089	0.0053
Venus	58715-12-03 03:22 G	23166608.47	23166608.64	23166608.81	0.0089	0.0058
Venus	58716-07-15 16:19 G	23166834.03	23166834.18	23166834.34	0.0089	0.0064
Venus	58717-02-26 05:17 G	23167059.60	23167059.72	23167059.87	0.0089	0.0069
Venus	58717-10-09 18:58 G	23167285.17	23167285.29	23167285.41	0.0089	0.0075
Venus	58718-05-23 07:41 G	23167510.74	23167510.82	23167510.93	0.0089	0.0081
Venus	58719-01-03 20:38 G	23167736.33	23167736.36	23167736.44	0.0089	0.0087

Mars	58729-09-12 16:34 G	23171640.90	23171641.19	23171641.52	0.0090	0.0038
Mercury	58764-07-24 21:36 G	23184375.39	23184375.40	23184375.43	0.0089	0.0088
Mercury	58764-10-20 23:02 G	23184463.41	23184463.46	23184463.53	0.0089	0.0080
Mercury	58765-01-17 00:29 G	23184551.45	23184551.52	23184551.61	0.0089	0.0072
Mercury	58765-04-15 01:55 G	23184639.50	23184639.58	23184639.69	0.0089	0.0064
Mercury	58765-07-12 03:22 G	23184727.55	23184727.64	23184727.76	0.0089	0.0056
Mercury	58765-10-08 05:02 G	23184815.60	23184815.71	23184815.83	0.0089	0.0047
Mercury	58766-01-04 06:29 G	23184903.65	23184903.77	23184903.89	0.0089	0.0039
Mercury	58766-04-02 07:55 G	23184991.70	23184991.83	23184991.96	0.0089	0.0031
Mercury	58766-06-29 09:22 G	23185079.76	23185079.89	23185080.02	0.0089	0.0023
Mercury	58766-09-25 10:48 G	23185167.82	23185167.95	23185168.08	0.0089	0.0015
Mercury	58766-12-22 12:14 G	23185255.87	23185256.01	23185256.14	0.0089	0.0007
Mercury	58767-03-20 13:41 G	23185343.93	23185344.07	23185344.20	0.0089	0.0002
Mercury	58767-06-16 15:07 G	23185431.99	23185432.13	23185432.26	0.0089	0.0009
Mercury	58767-09-12 16:19 G	23185520.05	23185520.18	23185520.32	0.0089	0.0017
Mercury	58767-12-09 17:46 G	23185608.11	23185608.24	23185608.37	0.0089	0.0025
Mercury	58768-03-06 18:58 G	23185696.18	23185696.29	23185696.43	0.0089	0.0033
Mercury	58768-06-02 20:38 G	23185784.24	23185784.36	23185784.48	0.0089	0.0041
Mercury	58768-08-29 21:50 G	23185872.30	23185872.41	23185872.53	0.0089	0.0048
Mercury	58768-11-25 23:17 G	23185960.37	23185960.47	23185960.58	0.0089	0.0056
Mercury	58769-02-22 00:29 G	23186048.44	23186048.52	23186048.62	0.0089	0.0064
Mercury	58769-05-21 01:41 G	23186136.51	23186136.57	23186136.67	0.0089	0.0073
Mercury	58769-08-17 03:22 G	23186224.59	23186224.64	23186224.70	0.0089	0.0079
Mercury	58769-11-13 04:34 G	23186312.68	23186312.69	23186312.73	0.0089	0.0087
Earth	58774-04-13 10:48 G	23187924.79	23187924.95	23187925.16	0.0089	0.0062
Moon	58774-04-13 12:29 G	23187924.87	23187925.02	23187925.21	0.0089	0.0064 *
Moon	58775-04-15 20:38 G	23188292.11	23188292.36	23188292.61	0.0089	0.0028
Earth	58775-04-15 23:17 G	23188292.24	23188292.47	23188292.72	0.0089	0.0031 *
Earth	58776-04-17 11:31 G	23188659.72	23188659.98	23188660.24	0.0089	0.0001
Moon	58776-04-17 14:38 G	23188659.86	23188660.11	23188660.36	0.0089	0.0002 *

Moon	58777-04-19 19:41 G	23189027.09	23189027.32	23189027.57	0.0089	0.0032
Earth	58777-04-19 23:31 G	23189027.25	23189027.48	23189027.73	0.0089	0.0030 *
Earth	58778-04-22 11:17 G	23189394.80	23189394.97	23189395.18	0.0089	0.0061
Moon	58778-04-22 14:38 G	23189394.93	23189395.11	23189395.33	0.0089	0.0059 *
Venus	58781-05-18 22:48 G	23190517.41	23190517.45	23190517.51	0.0089	0.0086
Venus	58781-12-30 11:31 G	23190742.91	23190742.98	23190743.09	0.0089	0.0081
Venus	58782-08-13 00:58 G	23190968.43	23190968.54	23190968.66	0.0089	0.0075
Venus	58783-03-26 13:41 G	23191193.96	23191194.07	23191194.23	0.0089	0.0070
Venus	58783-11-07 03:07 G	23191419.48	23191419.63	23191419.78	0.0089	0.0064
Venus	58784-06-19 15:50 G	23191645.01	23191645.16	23191645.34	0.0088	0.0059
Venus	58785-01-31 05:02 G	23191870.54	23191870.71	23191870.89	0.0088	0.0053
Venus	58785-09-13 17:46 G	23192096.07	23192096.24	23192096.45	0.0088	0.0048
Venus	58786-04-27 06:58 G	23192321.61	23192321.79	23192322.00	0.0088	0.0042
Venus	58786-12-08 20:10 G	23192547.14	23192547.34	23192547.54	0.0088	0.0036
Venus	58787-07-22 08:53 G	23192772.68	23192772.87	23192773.09	0.0088	0.0030
Venus	58788-03-03 22:05 G	23192998.22	23192998.42	23192998.64	0.0088	0.0025
Venus	58788-10-15 11:17 G	23193223.76	23193223.97	23193224.19	0.0088	0.0019
Venus	58789-05-29 00:00 G	23193449.29	23193449.50	23193449.73	0.0088	0.0014
Venus	58790-01-09 13:12 G	23193674.83	23193675.05	23193675.27	0.0088	0.0007
Venus	58790-08-23 02:10 G	23193900.37	23193900.59	23193900.81	0.0088	0.0002
Venus	58791-04-05 15:22 G	23194125.92	23194126.14	23194126.36	0.0088	0.0004
Venus	58791-11-17 04:05 G	23194351.46	23194351.67	23194351.90	0.0088	0.0010
Venus	58792-06-29 16:48 G	23194577.00	23194577.20	23194577.43	0.0088	0.0017
Venus	58793-02-10 06:00 G	23194802.54	23194802.75	23194802.97	0.0088	0.0022
Venus	58793-09-23 18:43 G	23195028.08	23195028.28	23195028.50	0.0088	0.0027
Venus	58794-05-07 07:26 G	23195253.62	23195253.81	23195254.03	0.0088	0.0033
Venus	58794-12-18 20:24 G	23195479.16	23195479.35	23195479.56	0.0088	0.0038
Venus	58795-08-01 09:07 G	23195704.70	23195704.88	23195705.08	0.0088	0.0044
Venus	58796-03-13 22:19 G	23195930.25	23195930.43	23195930.62	0.0088	0.0049
Venus	58796-10-25 10:48 G	23196155.80	23196155.95	23196156.14	0.0088	0.0055



Venus	58797-06-07 23:46 G	23196381.34	23196381.49	23196381.66	0.0088	0.0061
Venus	58798-01-19 12:14 G	23196606.89	23196607.01	23196607.18	0.0088	0.0066
Venus	58798-09-02 01:26 G	23196832.44	23196832.56	23196832.69	0.0088	0.0071
Venus	58799-04-15 13:55 G	23197058.00	23197058.08	23197058.21	0.0088	0.0077
Venus	58799-11-27 03:07 G	23197283.57	23197283.63	23197283.72	0.0088	0.0082
Venus	58800-07-09 16:05 G	23197509.15	23197509.17	23197509.20	0.0088	0.0087
Mars	58811-07-14 23:17 G	23201531.21	23201531.47	23201531.76	0.0088	0.0027
Mercury	58848-09-19 22:48 G	23215113.41	23215113.45	23215113.51	0.0088	0.0084
Mercury	58848-12-17 01:55 G	23215201.50	23215201.58	23215201.70	0.0088	0.0074
Mercury	58849-03-15 05:17 G	23215289.60	23215289.72	23215289.86	0.0088	0.0063
Mercury	58849-06-11 08:24 G	23215377.72	23215377.85	23215378.02	0.0088	0.0053
Mercury	58849-09-07 11:46 G	23215465.84	23215465.99	23215466.17	0.0088	0.0043
Mercury	58849-12-04 15:22 G	23215553.96	23215554.14	23215554.32	0.0088	0.0032
Mercury	58850-03-02 18:29 G	23215642.09	23215642.27	23215642.46	0.0088	0.0021
Mercury	58850-05-29 21:50 G	23215730.23	23215730.41	23215730.60	0.0088	0.0010
Mercury	58850-08-26 01:12 G	23215818.36	23215818.55	23215818.74	0.0088	0.0002
Mercury	58850-11-22 04:34 G	23215906.50	23215906.69	23215906.88	0.0088	0.0011
Mercury	58851-02-18 07:55 G	23215994.65	23215994.83	23215995.02	0.0088	0.0022
Mercury	58851-05-17 11:02 G	23216082.79	23216082.96	23216083.15	0.0088	0.0033
Mercury	58851-08-13 14:24 G	23216170.95	23216171.10	23216171.28	0.0088	0.0044
Mercury	58851-11-09 18:00 G	23216259.10	23216259.25	23216259.40	0.0088	0.0055
Mercury	58852-02-05 21:22 G	23216347.27	23216347.39	23216347.52	0.0088	0.0066
Mercury	58852-05-04 00:29 G	23216435.44	23216435.52	23216435.63	0.0088	0.0077
Mercury	58852-07-31 03:50 G	23216523.65	23216523.66	23216523.70	0.0088	0.0088
Earth	58857-10-15 22:34 G	23218426.25	23218426.44	23218426.63	0.0088	0.0061
Moon	58857-10-16 01:26 G	23218426.39	23218426.56	23218426.78	0.0088	0.0057 *
Moon	58858-10-18 06:00 G	23218793.52	23218793.75	23218793.99	0.0088	0.0036
Earth	58858-10-18 09:36 G	23218793.66	23218793.90	23218794.15	0.0088	0.0031 *
Earth	58859-10-20 20:53 G	23219161.11	23219161.37	23219161.62	0.0089	0.0001
Moon	58859-10-21 00:14 G	23219161.25	23219161.51	23219161.77	0.0089	0.0003 *

Moon	58860-10-22 05:02 G	23219528.48	23219528.71	23219528.96	0.0089	0.0025
Earth	58860-10-22 07:41 G	23219528.59	23219528.82	23219529.08	0.0089	0.0030 *
Earth	58861-10-24 18:29 G	23219896.11	23219896.27	23219896.49	0.0089	0.0060
Moon	58861-10-24 20:10 G	23219896.18	23219896.34	23219896.55	0.0089	0.0064 *
Moon	58862-10-27 05:02 G	23220263.67	23220263.71	23220263.79	0.0089	0.0086
Venus	58864-09-26 19:41 G	23220964.29	23220964.32	23220964.41	0.0089	0.0086
Venus	58865-05-10 09:07 G	23221189.80	23221189.88	23221189.98	0.0089	0.0080
Venus	58865-12-21 21:50 G	23221415.31	23221415.41	23221415.55	0.0089	0.0075
Venus	58866-08-04 11:02 G	23221640.84	23221640.96	23221641.11	0.0089	0.0069
Venus	58867-03-18 00:00 G	23221866.37	23221866.50	23221866.67	0.0089	0.0064
Venus	58867-10-29 12:58 G	23222091.89	23222092.04	23222092.23	0.0089	0.0058
Venus	58868-06-11 02:10 G	23222317.42	23222317.59	23222317.78	0.0089	0.0052
Venus	58869-01-22 14:53 G	23222542.95	23222543.12	23222543.33	0.0089	0.0047
Venus	58869-09-05 04:19 G	23222768.49	23222768.68	23222768.88	0.0089	0.0041
Venus	58870-04-18 17:17 G	23222994.03	23222994.22	23222994.43	0.0089	0.0035
Venus	58870-11-30 06:14 G	23223219.56	23223219.76	23223219.98	0.0089	0.0030
Venus	58871-07-13 19:12 G	23223445.10	23223445.30	23223445.52	0.0089	0.0024
Venus	58872-02-24 08:24 G	23223670.64	23223670.85	23223671.07	0.0089	0.0018
Venus	58872-10-06 21:36 G	23223896.18	23223896.40	23223896.62	0.0089	0.0012
Venus	58873-05-20 10:34 G	23224121.72	23224121.94	23224122.16	0.0089	0.0006
Venus	58873-12-31 23:31 G	23224347.26	23224347.48	23224347.70	0.0089	0.0002
Venus	58874-08-14 12:43 G	23224572.81	23224573.03	23224573.25	0.0089	0.0005
Venus	58875-03-28 01:41 G	23224798.36	23224798.57	23224798.80	0.0089	0.0012
Venus	58875-11-08 14:53 G	23225023.91	23225024.12	23225024.34	0.0089	0.0017
Venus	58876-06-21 03:50 G	23225249.46	23225249.66	23225249.88	0.0089	0.0023
Venus	58877-02-01 17:17 G	23225475.01	23225475.22	23225475.42	0.0089	0.0029
Venus	58877-09-15 06:14 G	23225700.57	23225700.76	23225700.97	0.0089	0.0035
Venus	58878-04-28 19:26 G	23225926.12	23225926.31	23225926.51	0.0089	0.0040
Venus	58878-12-10 08:24 G	23226151.68	23226151.85	23226152.05	0.0089	0.0046
Venus	58879-07-23 21:36 G	23226377.24	23226377.40	23226377.59	0.0089	0.0052

Venus	58880-03-05 11:02 G	23226602.80	23226602.96	23226603.13	0.0089	0.0058
Venus	58880-10-17 00:00 G	23226828.37	23226828.50	23226828.67	0.0089	0.0064
Venus	58881-05-30 13:12 G	23227053.93	23227054.05	23227054.21	0.0089	0.0069
Venus	58882-01-11 02:38 G	23227279.50	23227279.61	23227279.74	0.0089	0.0075
Venus	58882-08-24 15:36 G	23227505.08	23227505.15	23227505.27	0.0089	0.0081
Venus	58883-04-07 05:02 G	23227730.66	23227730.71	23227730.78	0.0089	0.0086
Mars	58895-03-23 02:38 G	23232098.35	23232098.61	23232098.93	0.0090	0.0048
Mercury	58929-04-21 20:38 G	23244546.33	23244546.36	23244546.40	0.0089	0.0086
Mercury	58929-07-18 22:05 G	23244634.36	23244634.42	23244634.49	0.0089	0.0078
Mercury	58929-10-14 23:31 G	23244722.40	23244722.48	23244722.57	0.0089	0.0070
Mercury	58930-01-11 00:58 G	23244810.45	23244810.54	23244810.64	0.0089	0.0062
Mercury	58930-04-09 02:24 G	23244898.50	23244898.60	23244898.72	0.0089	0.0054
Mercury	58930-07-06 03:50 G	23244986.55	23244986.66	23244986.78	0.0089	0.0046
Mercury	58930-10-02 05:17 G	23245074.61	23245074.72	23245074.85	0.0089	0.0038
Mercury	58930-12-29 06:43 G	23245162.66	23245162.78	23245162.92	0.0089	0.0030
Mercury	58931-03-27 08:10 G	23245250.72	23245250.84	23245250.98	0.0089	0.0022
Mercury	58931-06-23 09:36 G	23245338.77	23245338.90	23245339.04	0.0089	0.0014
Mercury	58931-09-19 11:17 G	23245426.83	23245426.97	23245427.10	0.0089	0.0006
Mercury	58931-12-16 12:29 G	23245514.89	23245515.02	23245515.16	0.0089	0.0004
Mercury	58932-03-13 13:55 G	23245602.95	23245603.08	23245603.22	0.0089	0.0010
Mercury	58932-06-09 15:22 G	23245691.01	23245691.14	23245691.27	0.0089	0.0018
Mercury	58932-09-05 16:48 G	23245779.07	23245779.20	23245779.33	0.0089	0.0026
Mercury	58932-12-02 18:00 G	23245867.13	23245867.25	23245867.38	0.0089	0.0034
Mercury	58933-02-28 19:26 G	23245955.20	23245955.31	23245955.44	0.0089	0.0042
Mercury	58933-05-27 20:38 G	23246043.26	23246043.36	23246043.49	0.0089	0.0050
Mercury	58933-08-23 22:19 G	23246131.33	23246131.43	23246131.53	0.0089	0.0057
Mercury	58933-11-19 23:31 G	23246219.40	23246219.48	23246219.58	0.0089	0.0065
Mercury	58934-02-16 00:58 G	23246307.47	23246307.54	23246307.62	0.0089	0.0073
Mercury	58934-05-15 02:10 G	23246395.55	23246395.59	23246395.66	0.0089	0.0081
Mercury	58934-08-11 03:50 G	23246483.65	23246483.66	23246483.67	0.0089	0.0088

Moon	58938-04-13 12:14 G	23247824.89	23247825.01	23247825.17	0.0089	0.0075
Earth	58938-04-13 15:22 G	23247825.05	23247825.14	23247825.28	0.0089	0.0079 *
Earth	58939-04-16 03:07 G	23248192.44	23248192.63	23248192.87	0.0089	0.0049
Moon	58939-04-16 07:12 G	23248192.60	23248192.80	23248193.02	0.0089	0.0052 *
Moon	58940-04-17 12:14 G	23248559.76	23248560.01	23248560.27	0.0089	0.0014
Earth	58940-04-17 15:36 G	23248559.90	23248560.15	23248560.41	0.0089	0.0018 *
Earth	58941-04-20 03:36 G	23248927.40	23248927.65	23248927.92	0.0089	0.0013
Moon	58941-04-20 06:58 G	23248927.54	23248927.79	23248928.06	0.0089	0.0009 *
Moon	58942-04-22 13:55 G	23249294.87	23249295.08	23249295.30	0.0089	0.0047
Earth	58942-04-22 16:05 G	23249294.94	23249295.17	23249295.40	0.0089	0.0043 *
Jupiter	58942-05-27 00:00 G	23249329.40	23249329.50	23249329.72	0.0089	0.0085
Earth	58943-04-25 03:36 G	23249662.53	23249662.65	23249662.81	0.0089	0.0074
Moon	58943-04-25 04:48 G	23249662.56	23249662.70	23249662.89	0.0089	0.0070 *
Venus	58945-08-21 06:43 G	23250511.73	23250511.78	23250511.85	0.0089	0.0085
Venus	58946-04-03 19:41 G	23250737.24	23250737.32	23250737.43	0.0089	0.0080
Venus	58946-11-15 09:07 G	23250962.76	23250962.88	23250963.00	0.0089	0.0074
Venus	58947-06-28 21:50 G	23251188.29	23251188.41	23251188.56	0.0089	0.0069
Venus	58948-02-09 11:17 G	23251413.82	23251413.97	23251414.13	0.0089	0.0063
Venus	58948-09-22 00:00 G	23251639.35	23251639.50	23251639.68	0.0089	0.0058
Venus	58949-05-05 13:12 G	23251864.88	23251865.05	23251865.23	0.0088	0.0052
Venus	58949-12-17 01:55 G	23252090.41	23252090.58	23252090.78	0.0088	0.0047
Venus	58950-07-30 15:07 G	23252315.94	23252316.13	23252316.33	0.0088	0.0041
Venus	58951-03-13 04:05 G	23252541.48	23252541.67	23252541.89	0.0088	0.0036
Venus	58951-10-24 17:17 G	23252767.02	23252767.22	23252767.44	0.0088	0.0030
Venus	58952-06-06 06:29 G	23252992.56	23252992.77	23252992.98	0.0088	0.0024
Venus	58953-01-17 19:12 G	23253218.09	23253218.30	23253218.53	0.0088	0.0018
Venus	58953-08-31 08:24 G	23253443.63	23253443.85	23253444.07	0.0088	0.0012
Venus	58954-04-13 21:36 G	23253669.18	23253669.40	23253669.62	0.0088	0.0007
Venus	58954-11-25 10:34 G	23253894.72	23253894.94	23253895.16	0.0088	0.0001
Venus	58955-07-08 23:31 G	23254120.26	23254120.48	23254120.70	0.0088	0.0005

Venus	58956-02-19 12:43 G	23254345.81	23254346.03	23254346.25	0.0088	0.0011
Venus	58956-10-02 01:26 G	23254571.35	23254571.56	23254571.78	0.0088	0.0016
Venus	58957-05-15 14:10 G	23254796.89	23254797.09	23254797.32	0.0088	0.0023
Venus	58957-12-27 03:22 G	23255022.43	23255022.64	23255022.85	0.0088	0.0027
Venus	58958-08-09 16:05 G	23255247.98	23255248.17	23255248.39	0.0088	0.0033
Venus	58959-03-23 05:02 G	23255473.53	23255473.71	23255473.92	0.0088	0.0039
Venus	58959-11-03 18:00 G	23255699.07	23255699.25	23255699.45	0.0088	0.0044
Venus	58960-06-16 06:43 G	23255924.61	23255924.78	23255924.98	0.0088	0.0050
Venus	58961-01-27 19:41 G	23256150.16	23256150.32	23256150.50	0.0088	0.0055
Venus	58961-09-10 08:10 G	23256375.71	23256375.84	23256376.02	0.0088	0.0061
Venus	58962-04-23 21:22 G	23256601.26	23256601.39	23256601.55	0.0088	0.0066
Venus	58962-12-05 10:19 G	23256826.81	23256826.93	23256827.07	0.0088	0.0071
Venus	58963-07-18 22:48 G	23257052.37	23257052.45	23257052.58	0.0088	0.0077
Venus	58964-02-29 11:46 G	23257277.93	23257277.99	23257278.08	0.0088	0.0082
Venus	58964-10-12 00:43 G	23257503.52	23257503.53	23257503.57	0.0088	0.0087
Mars	58975-02-28 10:34 G	23261294.85	23261294.94	23261295.08	0.0088	0.0080
Mars	58977-01-21 23:02 G	23261988.22	23261988.46	23261988.73	0.0088	0.0042

# 60TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 60th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	59013-06-18 20:38 G		23275284.30	23275284.36	23275284.44	0.0088	0.0081	

Mercury	59013-09-14 23:31 G	23275372.39	23275372.48	23275372.61	0.0088	0.0072
Mercury	59013-12-12 03:07 G	23275460.50	23275460.63	23275460.77	0.0088	0.0060
Mercury	59014-03-10 06:14 G	23275548.62	23275548.76	23275548.92	0.0088	0.0050
Mercury	59014-06-06 09:36 G	23275636.74	23275636.90	23275637.07	0.0088	0.0039
Mercury	59014-09-02 12:43 G	23275724.86	23275725.03	23275725.22	0.0088	0.0029
Mercury	59014-11-29 16:05 G	23275812.99	23275813.17	23275813.36	0.0088	0.0019
Mercury	59015-02-25 19:26 G	23275901.13	23275901.31	23275901.50	0.0088	0.0008
Mercury	59015-05-24 22:48 G	23275989.26	23275989.45	23275989.64	0.0088	0.0003
Mercury	59015-08-21 02:10 G	23276077.40	23276077.59	23276077.78	0.0088	0.0014
Mercury	59015-11-17 05:31 G	23276165.55	23276165.73	23276165.91	0.0088	0.0025
Mercury	59016-02-13 08:38 G	23276253.69	23276253.86	23276254.04	0.0088	0.0036
Mercury	59016-05-11 12:00 G	23276341.85	23276342.00	23276342.17	0.0088	0.0046
Mercury	59016-08-07 15:22 G	23276430.00	23276430.14	23276430.29	0.0088	0.0057
Mercury	59016-11-03 18:29 G	23276518.17	23276518.27	23276518.41	0.0088	0.0068
Mercury	59017-01-30 21:50 G	23276606.35	23276606.41	23276606.51	0.0088	0.0079
Moon	59021-10-17 01:12 G	23278326.44	23278326.55	23278326.68	0.0088	0.0078
Earth	59021-10-17 05:17 G	23278326.59	23278326.72	23278326.84	0.0088	0.0077 *
Earth	59022-10-19 15:50 G	23278693.97	23278694.16	23278694.40	0.0088	0.0048
Moon	59022-10-19 19:12 G	23278694.09	23278694.30	23278694.53	0.0088	0.0047 *
Moon	59023-10-22 01:26 G	23279061.32	23279061.56	23279061.81	0.0088	0.0018
Earth	59023-10-22 03:22 G	23279061.40	23279061.64	23279061.91	0.0088	0.0018 *
Earth	59024-10-23 14:38 G	23279428.86	23279429.11	23279429.37	0.0088	0.0013
Moon	59024-10-23 16:05 G	23279428.92	23279429.17	23279429.44	0.0088	0.0015 *
Earth	59025-10-26 01:26 G	23279796.36	23279796.56	23279796.81	0.0089	0.0044
Moon	59025-10-26 02:10 G	23279796.38	23279796.59	23279796.82	0.0089	0.0043 *
Moon	59026-10-28 11:17 G	23280163.84	23280163.97	23280164.14	0.0089	0.0074
Earth	59026-10-28 12:29 G	23280163.91	23280164.02	23280164.19	0.0089	0.0074 *
Venus	59028-12-31 05:02 G	23280958.65	23280958.71	23280958.79	0.0089	0.0084
Venus	59029-08-13 18:00 G	23281184.17	23281184.25	23281184.36	0.0089	0.0079
Venus	59030-03-27 06:43 G	23281409.68	23281409.78	23281409.93	0.0089	0.0074

Venus	59030-11-07 19:55 G	23281635.20	23281635.33	23281635.49	0.0089	0.0068
Venus	59031-06-21 08:38 G	23281860.73	23281860.86	23281861.04	0.0089	0.0063
Venus	59032-02-01 21:50 G	23282086.26	23282086.41	23282086.59	0.0089	0.0057
Venus	59032-09-14 11:17 G	23282311.79	23282311.97	23282312.15	0.0089	0.0051
Venus	59033-04-28 00:00 G	23282537.33	23282537.50	23282537.70	0.0089	0.0046
Venus	59033-12-09 13:12 G	23282762.86	23282763.05	23282763.25	0.0089	0.0040
Venus	59034-07-23 02:24 G	23282988.40	23282988.60	23282988.80	0.0089	0.0034
Venus	59035-03-05 15:07 G	23283213.94	23283214.13	23283214.35	0.0089	0.0029
Venus	59035-10-17 04:19 G	23283439.47	23283439.68	23283439.90	0.0089	0.0023
Venus	59036-05-29 17:17 G	23283665.01	23283665.22	23283665.44	0.0089	0.0017
Venus	59037-01-10 06:29 G	23283890.55	23283890.77	23283890.99	0.0089	0.0011
Venus	59037-08-23 19:26 G	23284116.10	23284116.31	23284116.53	0.0089	0.0006
Venus	59038-04-06 08:38 G	23284341.64	23284341.86	23284342.08	0.0089	0.0001
Venus	59038-11-17 21:36 G	23284567.18	23284567.40	23284567.62	0.0089	0.0006
Venus	59039-07-01 10:19 G	23284792.72	23284792.93	23284793.16	0.0089	0.0012
Venus	59040-02-11 23:31 G	23285018.27	23285018.48	23285018.70	0.0089	0.0017
Venus	59040-09-24 12:43 G	23285243.82	23285244.03	23285244.25	0.0089	0.0023
Venus	59041-05-08 01:41 G	23285469.37	23285469.57	23285469.79	0.0089	0.0029
Venus	59041-12-19 14:53 G	23285694.92	23285695.12	23285695.32	0.0089	0.0035
Venus	59042-08-02 03:50 G	23285920.47	23285920.66	23285920.86	0.0089	0.0041
Venus	59043-03-15 16:48 G	23286146.03	23286146.20	23286146.40	0.0089	0.0047
Venus	59043-10-27 06:00 G	23286371.59	23286371.75	23286371.95	0.0089	0.0052
Venus	59044-06-08 19:26 G	23286597.15	23286597.31	23286597.48	0.0089	0.0057
Venus	59045-01-20 08:24 G	23286822.71	23286822.85	23286823.02	0.0089	0.0063
Venus	59045-09-02 21:50 G	23287048.28	23287048.41	23287048.56	0.0089	0.0069
Venus	59046-04-16 10:48 G	23287273.85	23287273.95	23287274.09	0.0089	0.0075
Venus	59046-11-28 00:29 G	23287499.42	23287499.52	23287499.61	0.0089	0.0080
Venus	59047-07-11 13:12 G	23287725.00	23287725.05	23287725.13	0.0089	0.0086
Mars	59058-11-05 00:58 G	23291859.23	23291859.54	23291859.89	0.0090	0.0023
Mercury	59094-01-17 19:26 G	23304717.28	23304717.31	23304717.36	0.0089	0.0085

Mercury	59094-04-15 20:53 G	23304805.32	23304805.37	23304805.45	0.0089	0.0077
Mercury	59094-07-12 22:19 G	23304893.36	23304893.43	23304893.53	0.0089	0.0069
Mercury	59094-10-08 23:46 G	23304981.41	23304981.49	23304981.60	0.0089	0.0061
Mercury	59095-01-05 01:26 G	23305069.46	23305069.56	23305069.67	0.0089	0.0053
Mercury	59095-04-03 02:53 G	23305157.51	23305157.62	23305157.74	0.0089	0.0045
Mercury	59095-06-30 04:19 G	23305245.56	23305245.68	23305245.81	0.0089	0.0037
Mercury	59095-09-26 05:46 G	23305333.62	23305333.74	23305333.87	0.0089	0.0029
Mercury	59095-12-23 07:12 G	23305421.67	23305421.80	23305421.94	0.0089	0.0021
Mercury	59096-03-20 08:38 G	23305509.73	23305509.86	23305510.00	0.0089	0.0013
Mercury	59096-06-16 10:05 G	23305597.79	23305597.92	23305598.06	0.0089	0.0005
Mercury	59096-09-12 11:31 G	23305685.85	23305685.98	23305686.12	0.0089	0.0004
Mercury	59096-12-09 12:58 G	23305773.91	23305774.04	23305774.18	0.0089	0.0012
Mercury	59097-03-07 14:24 G	23305861.97	23305862.10	23305862.23	0.0089	0.0020
Mercury	59097-06-03 15:50 G	23305950.03	23305950.16	23305950.29	0.0089	0.0027
Mercury	59097-08-30 17:17 G	23306038.10	23306038.22	23306038.34	0.0089	0.0035
Mercury	59097-11-26 18:29 G	23306126.16	23306126.27	23306126.40	0.0089	0.0044
Mercury	59098-02-22 19:55 G	23306214.23	23306214.33	23306214.45	0.0089	0.0051
Mercury	59098-05-21 21:07 G	23306302.29	23306302.38	23306302.49	0.0089	0.0060
Mercury	59098-08-17 22:34 G	23306390.37	23306390.44	23306390.54	0.0089	0.0067
Mercury	59098-11-14 00:14 G	23306478.44	23306478.51	23306478.58	0.0089	0.0074
Mercury	59099-02-10 01:26 G	23306566.52	23306566.56	23306566.62	0.0089	0.0082
Moon	59103-04-17 05:46 G	23308092.59	23308092.74	23308092.90	0.0089	0.0069
Earth	59103-04-17 08:53 G	23308092.71	23308092.87	23308093.06	0.0089	0.0065 *
Earth	59104-04-18 20:53 G	23308460.15	23308460.37	23308460.62	0.0089	0.0035
Moon	59104-04-18 23:17 G	23308460.24	23308460.47	23308460.74	0.0089	0.0032 *
Moon	59105-04-21 07:12 G	23308827.56	23308827.80	23308828.06	0.0089	0.0007
Earth	59105-04-21 09:07 G	23308827.63	23308827.88	23308828.14	0.0089	0.0005 *
Earth	59106-04-23 20:53 G	23309195.14	23309195.37	23309195.63	0.0089	0.0027
Moon	59106-04-23 21:07 G	23309195.15	23309195.38	23309195.65	0.0089	0.0030 *
Earth	59107-04-26 08:53 G	23309562.69	23309562.87	23309563.08	0.0089	0.0057



Moon	59107-04-26 09:50 G	23309562.72	23309562.91	23309563.12	0.0089	0.0054 *
Earth	59108-04-27 20:38 G	23309930.35	23309930.36	23309930.44	0.0089	0.0088
Jupiter	59108-07-26 14:53 G	23310019.62	23310020.12	23310020.67	0.0089	0.0017
Venus	59109-11-24 14:53 G	23310506.07	23310506.12	23310506.21	0.0089	0.0084
Venus	59110-07-08 03:50 G	23310731.58	23310731.66	23310731.79	0.0089	0.0079
Venus	59111-02-18 17:17 G	23310957.11	23310957.22	23310957.36	0.0089	0.0073
Venus	59111-10-02 06:14 G	23311182.64	23311182.76	23311182.93	0.0089	0.0068
Venus	59112-05-14 19:41 G	23311408.17	23311408.32	23311408.48	0.0089	0.0062
Venus	59112-12-26 08:24 G	23311633.70	23311633.85	23311634.04	0.0089	0.0057
Venus	59113-08-08 21:36 G	23311859.23	23311859.40	23311859.59	0.0089	0.0051
Venus	59114-03-22 10:34 G	23312084.77	23312084.94	23312085.15	0.0089	0.0046
Venus	59114-11-02 23:46 G	23312310.30	23312310.49	23312310.70	0.0089	0.0040
Venus	59115-06-16 12:43 G	23312535.84	23312536.03	23312536.24	0.0088	0.0034
Venus	59116-01-28 01:41 G	23312761.37	23312761.57	23312761.79	0.0088	0.0029
Venus	59116-09-09 14:53 G	23312986.91	23312987.12	23312987.34	0.0088	0.0023
Venus	59117-04-23 03:50 G	23313212.45	23313212.66	23313212.88	0.0088	0.0017
Venus	59117-12-04 16:48 G	23313437.99	23313438.20	23313438.42	0.0088	0.0012
Venus	59118-07-18 05:46 G	23313663.53	23313663.74	23313663.97	0.0088	0.0006
Venus	59119-02-28 18:58 G	23313889.07	23313889.29	23313889.51	0.0088	0.0001
Venus	59119-10-12 07:55 G	23314114.61	23314114.83	23314115.05	0.0088	0.0006
Venus	59120-05-24 20:53 G	23314340.15	23314340.37	23314340.59	0.0088	0.0011
Venus	59121-01-05 09:50 G	23314565.70	23314565.91	23314566.13	0.0088	0.0017
Venus	59121-08-18 22:48 G	23314791.24	23314791.45	23314791.67	0.0088	0.0022
Venus	59122-04-01 11:46 G	23315016.79	23315016.99	23315017.21	0.0088	0.0028
Venus	59122-11-13 00:58 G	23315242.34	23315242.54	23315242.75	0.0088	0.0033
Venus	59123-06-26 13:26 G	23315467.88	23315468.06	23315468.28	0.0088	0.0040
Venus	59124-02-07 02:38 G	23315693.43	23315693.61	23315693.81	0.0088	0.0045
Venus	59124-09-19 15:22 G	23315918.98	23315919.14	23315919.34	0.0088	0.0050
Venus	59125-05-03 04:34 G	23316144.53	23316144.69	23316144.87	0.0088	0.0055
Venus	59125-12-14 17:02 G	23316370.07	23316370.21	23316370.39	0.0088	0.0061

Venus	59126-07-28 06:00 G	23316595.62	23316595.75	23316595.91	0.0088	0.0067
Venus	59127-03-10 19:12 G	23316821.18	23316821.30	23316821.43	0.0088	0.0072
Venus	59127-10-22 07:41 G	23317046.74	23317046.82	23317046.95	0.0088	0.0077
Venus	59128-06-03 20:38 G	23317272.30	23317272.36	23317272.45	0.0088	0.0082
Venus	59129-01-15 09:22 G	23317497.88	23317497.89	23317497.93	0.0088	0.0087
Mars	59140-09-08 10:19 G	23321751.65	23321751.93	23321752.23	0.0088	0.0011
Mercury	59177-12-18 15:22 G	23335367.14	23335367.14	23335367.16	0.0088	0.0088
Mercury	59178-03-16 18:43 G	23335455.20	23335455.28	23335455.37	0.0088	0.0078
Mercury	59178-06-12 21:50 G	23335543.30	23335543.41	23335543.54	0.0088	0.0067
Mercury	59178-09-09 00:58 G	23335631.41	23335631.54	23335631.70	0.0088	0.0057
Mercury	59178-12-06 04:19 G	23335719.53	23335719.68	23335719.85	0.0088	0.0046
Mercury	59179-03-04 07:26 G	23335807.65	23335807.81	23335808.00	0.0088	0.0036
Mercury	59179-05-31 10:48 G	23335895.78	23335895.95	23335896.14	0.0088	0.0025
Mercury	59179-08-27 14:24 G	23335983.91	23335984.10	23335984.28	0.0088	0.0015
Mercury	59179-11-23 17:31 G	23336072.04	23336072.23	23336072.42	0.0088	0.0004
Mercury	59180-02-19 20:53 G	23336160.18	23336160.37	23336160.56	0.0088	0.0007
Mercury	59180-05-18 00:14 G	23336248.32	23336248.51	23336248.69	0.0088	0.0018
Mercury	59180-08-14 03:22 G	23336336.46	23336336.64	23336336.82	0.0088	0.0028
Mercury	59180-11-10 06:29 G	23336424.61	23336424.77	23336424.95	0.0088	0.0039
Mercury	59181-02-06 09:50 G	23336512.77	23336512.91	23336513.08	0.0088	0.0050
Mercury	59181-05-05 13:26 G	23336600.92	23336601.06	23336601.20	0.0088	0.0061
Mercury	59181-08-01 16:34 G	23336689.09	23336689.19	23336689.31	0.0088	0.0072
Mercury	59181-10-28 19:55 G	23336777.28	23336777.33	23336777.41	0.0088	0.0082
Moon	59186-10-19 21:50 G	23338594.24	23338594.41	23338594.62	0.0088	0.0059
Earth	59186-10-19 23:46 G	23338594.32	23338594.49	23338594.68	0.0088	0.0063 *
Earth	59187-10-22 11:02 G	23338961.73	23338961.96	23338962.21	0.0088	0.0033
Moon	59187-10-22 11:31 G	23338961.73	23338961.98	23338962.22	0.0088	0.0037 *
Earth	59188-10-23 22:19 G	23339329.18	23339329.43	23339329.69	0.0088	0.0003
Moon	59188-10-23 22:48 G	23339329.21	23339329.45	23339329.70	0.0088	0.0002 *
Moon	59189-10-26 07:12 G	23339696.55	23339696.80	23339697.06	0.0089	0.0023

Earth	59189-10-26 09:22 G	23339696.65	23339696.89	23339697.14	0.0089	0.0028 *
Earth	59190-10-28 20:10 G	23340064.17	23340064.34	23340064.56	0.0089	0.0058
Moon	59190-10-28 23:31 G	23340064.30	23340064.48	23340064.66	0.0089	0.0062 *
Moon	59191-10-31 04:05 G	23340431.60	23340431.67	23340431.78	0.0089	0.0083
Earth	59191-10-31 07:26 G	23340431.80	23340431.81	23340431.87	0.0089	0.0088
Venus	59192-08-22 01:26 G	23340727.55	23340727.56	23340727.60	0.0089	0.0088
Venus	59193-04-04 14:24 G	23340953.04	23340953.10	23340953.19	0.0089	0.0083
Venus	59193-11-16 03:07 G	23341178.55	23341178.63	23341178.76	0.0089	0.0078
Venus	59194-06-29 16:19 G	23341404.06	23341404.18	23341404.31	0.0089	0.0072
Venus	59195-02-10 05:02 G	23341629.58	23341629.71	23341629.87	0.0089	0.0067
Venus	59195-09-23 18:14 G	23341855.11	23341855.26	23341855.43	0.0089	0.0061
Venus	59196-05-06 06:58 G	23342080.64	23342080.79	23342080.98	0.0089	0.0056
Venus	59196-12-17 20:10 G	23342306.17	23342306.34	23342306.53	0.0089	0.0050
Venus	59197-07-31 09:07 G	23342531.70	23342531.88	23342532.08	0.0089	0.0045
Venus	59198-03-13 22:19 G	23342757.24	23342757.43	23342757.63	0.0089	0.0039
Venus	59198-10-25 11:31 G	23342982.78	23342982.98	23342983.18	0.0089	0.0033
Venus	59199-06-08 00:14 G	23343208.31	23343208.51	23343208.73	0.0089	0.0028
Venus	59200-01-19 13:26 G	23343433.85	23343434.06	23343434.28	0.0089	0.0022
Venus	59200-09-01 02:38 G	23343659.40	23343659.61	23343659.83	0.0089	0.0016
Venus	59201-04-14 15:36 G	23343884.94	23343885.15	23343885.38	0.0089	0.0011
Venus	59201-11-26 04:48 G	23344110.48	23344110.70	23344110.92	0.0089	0.0005
Venus	59202-07-09 17:46 G	23344336.02	23344336.24	23344336.46	0.0089	0.0001
Venus	59203-02-20 06:43 G	23344561.56	23344561.78	23344562.00	0.0089	0.0007
Venus	59203-10-03 19:55 G	23344787.11	23344787.33	23344787.55	0.0089	0.0012
Venus	59204-05-16 08:53 G	23345012.66	23345012.87	23345013.09	0.0089	0.0018
Venus	59204-12-27 21:36 G	23345238.20	23345238.40	23345238.63	0.0089	0.0024
Venus	59205-08-10 11:02 G	23345463.75	23345463.96	23345464.17	0.0089	0.0029
Venus	59206-03-24 00:00 G	23345689.30	23345689.50	23345689.71	0.0089	0.0035
Venus	59206-11-04 12:58 G	23345914.86	23345915.04	23345915.25	0.0089	0.0041
Venus	59207-06-18 02:10 G	23346140.41	23346140.59	23346140.78	0.0089	0.0046

Venus	59208-01-29 15:07 G	23346365.97	23346366.13	23346366.32	0.0089	0.0052
Venus	59208-09-11 04:34 G	23346591.53	23346591.69	23346591.86	0.0089	0.0058
Venus	59209-04-24 17:31 G	23346817.09	23346817.23	23346817.40	0.0089	0.0063
Venus	59209-12-06 06:29 G	23347042.65	23347042.77	23347042.93	0.0089	0.0069
Venus	59210-07-19 19:41 G	23347268.22	23347268.32	23347268.46	0.0089	0.0075
Venus	59211-03-02 08:38 G	23347493.79	23347493.86	23347493.99	0.0089	0.0081
Venus	59211-10-13 22:19 G	23347719.38	23347719.43	23347719.51	0.0089	0.0085
Mars	59224-05-15 13:26 G	23352316.85	23352317.06	23352317.33	0.0090	0.0065
Mercury	59258-10-15 18:43 G	23364888.24	23364888.28	23364888.33	0.0089	0.0083
Mercury	59259-01-11 20:10 G	23364976.27	23364976.34	23364976.42	0.0089	0.0075
Mercury	59259-04-09 21:36 G	23365064.32	23365064.40	23365064.50	0.0089	0.0067
Mercury	59259-07-06 23:02 G	23365152.37	23365152.46	23365152.57	0.0089	0.0059
Mercury	59259-10-03 00:29 G	23365240.42	23365240.52	23365240.64	0.0089	0.0051
Mercury	59259-12-30 02:10 G	23365328.47	23365328.59	23365328.71	0.0089	0.0043
Mercury	59260-03-27 03:36 G	23365416.52	23365416.65	23365416.77	0.0089	0.0035
Mercury	59260-06-23 05:02 G	23365504.58	23365504.71	23365504.84	0.0089	0.0027
Mercury	59260-09-19 06:29 G	23365592.64	23365592.77	23365592.90	0.0089	0.0019
Mercury	59260-12-16 07:55 G	23365680.69	23365680.83	23365680.96	0.0089	0.0011
Mercury	59261-03-14 09:22 G	23365768.75	23365768.89	23365769.02	0.0089	0.0003
Mercury	59261-06-10 10:48 G	23365856.81	23365856.95	23365857.08	0.0089	0.0006
Mercury	59261-09-06 12:14 G	23365944.87	23365945.01	23365945.14	0.0089	0.0014
Mercury	59261-12-03 13:41 G	23366032.94	23366033.07	23366033.20	0.0089	0.0021
Mercury	59262-03-01 14:53 G	23366121.00	23366121.12	23366121.25	0.0089	0.0029
Mercury	59262-05-28 16:19 G	23366209.06	23366209.18	23366209.31	0.0089	0.0037
Mercury	59262-08-24 17:46 G	23366297.13	23366297.24	23366297.36	0.0089	0.0045
Mercury	59262-11-20 18:58 G	23366385.19	23366385.29	23366385.41	0.0089	0.0053
Mercury	59263-02-16 20:24 G	23366473.26	23366473.35	23366473.46	0.0089	0.0061
Mercury	59263-05-15 22:05 G	23366561.33	23366561.42	23366561.50	0.0089	0.0069
Mercury	59263-08-11 23:17 G	23366649.41	23366649.47	23366649.54	0.0089	0.0076
Mercury	59263-11-08 00:29 G	23366737.49	23366737.52	23366737.57	0.0089	0.0084

Earth	59267-04-16 14:24 G	23367993.03	23367993.10	23367993.22	0.0089	0.0082
Moon	59267-04-16 16:48 G	23367993.10	23367993.20	23367993.34	0.0089	0.0079 *
Moon	59268-04-18 01:41 G	23368360.40	23368360.57	23368360.80	0.0089	0.0054
Earth	59268-04-18 02:53 G	23368360.42	23368360.62	23368360.84	0.0089	0.0051 *
Moon	59269-04-20 14:53 G	23368727.86	23368728.12	23368728.38	0.0089	0.0018
Earth	59269-04-20 14:38 G	23368727.87	23368728.11	23368728.37	0.0089	0.0021 *
Earth	59270-04-23 02:53 G	23369095.36	23369095.62	23369095.88	0.0089	0.0010
Moon	59270-04-23 04:19 G	23369095.43	23369095.68	23369095.93	0.0089	0.0007 *
Moon	59271-04-25 11:31 G	23369462.77	23369462.98	23369463.24	0.0089	0.0043
Earth	59271-04-25 14:24 G	23369462.89	23369463.10	23369463.35	0.0089	0.0041 *
Earth	59272-04-27 02:38 G	23369830.47	23369830.61	23369830.77	0.0089	0.0071
Moon	59272-04-27 05:31 G	23369830.58	23369830.73	23369830.91	0.0089	0.0068 *
Venus	59273-07-15 10:19 G	23370274.92	23370274.93	23370274.97	0.0089	0.0088
Venus	59274-02-25 23:31 G	23370500.42	23370500.48	23370500.58	0.0089	0.0083
Jupiter	59274-09-29 21:50 G	23370715.99	23370716.41	23370716.87	0.0089	0.0050
Venus	59274-10-09 12:58 G	23370725.94	23370726.04	23370726.16	0.0089	0.0077
Venus	59275-05-23 01:55 G	23370951.47	23370951.58	23370951.72	0.0089	0.0072
Venus	59276-01-03 14:53 G	23371177.00	23371177.12	23371177.29	0.0089	0.0067
Venus	59276-08-16 04:19 G	23371402.53	23371402.68	23371402.85	0.0089	0.0061
Venus	59277-03-29 17:17 G	23371628.07	23371628.22	23371628.41	0.0089	0.0056
Venus	59277-11-10 06:29 G	23371853.60	23371853.77	23371853.97	0.0089	0.0050
Venus	59278-06-23 19:26 G	23372079.14	23372079.31	23372079.52	0.0089	0.0045
Venus	59279-02-04 08:38 G	23372304.68	23372304.86	23372305.07	0.0089	0.0039
Venus	59279-09-17 22:05 G	23372530.21	23372530.42	23372530.62	0.0088	0.0033
Venus	59280-04-30 10:48 G	23372755.75	23372755.95	23372756.17	0.0088	0.0028
Venus	59280-12-12 00:00 G	23372981.29	23372981.50	23372981.71	0.0088	0.0022
Venus	59281-07-25 12:58 G	23373206.83	23373207.04	23373207.26	0.0088	0.0016
Venus	59282-03-08 02:10 G	23373432.37	23373432.59	23373432.81	0.0088	0.0011
Venus	59282-10-19 15:07 G	23373657.91	23373658.13	23373658.35	0.0088	0.0005
Venus	59283-06-02 04:05 G	23373883.45	23373883.67	23373883.89	0.0088	0.0001

Venus	59284-01-13 17:02 G	23374108.99	23374109.21	23374109.43	0.0088	0.0006
Venus	59284-08-26 06:00 G	23374334.53	23374334.75	23374334.97	0.0088	0.0012
Venus	59285-04-08 18:58 G	23374560.08	23374560.29	23374560.51	0.0088	0.0017
Venus	59285-11-20 07:55 G	23374785.62	23374785.83	23374786.05	0.0088	0.0023
Venus	59286-07-03 20:53 G	23375011.17	23375011.37	23375011.59	0.0088	0.0029
Venus	59287-02-14 09:50 G	23375236.72	23375236.91	23375237.12	0.0088	0.0034
Venus	59287-09-27 23:02 G	23375462.26	23375462.46	23375462.66	0.0088	0.0040
Venus	59288-05-10 11:46 G	23375687.81	23375687.99	23375688.19	0.0088	0.0045
Venus	59288-12-22 00:43 G	23375913.36	23375913.53	23375913.72	0.0088	0.0051
Venus	59289-08-04 13:26 G	23376138.91	23376139.06	23376139.25	0.0088	0.0056
Venus	59290-03-18 02:38 G	23376364.46	23376364.61	23376364.78	0.0088	0.0061
Venus	59290-10-29 15:50 G	23376590.02	23376590.16	23376590.30	0.0088	0.0067
Venus	59291-06-12 04:05 G	23376815.57	23376815.67	23376815.82	0.0088	0.0072
Venus	59292-01-23 17:02 G	23377041.12	23377041.21	23377041.33	0.0088	0.0077
Venus	59292-09-05 06:00 G	23377266.69	23377266.75	23377266.84	0.0088	0.0082
Venus	59293-04-18 19:12 G	23377492.28	23377492.30	23377492.33	0.0088	0.0087
Mars	59304-04-24 23:02 G	23381515.27	23381515.46	23381515.67	0.0088	0.0063
Mars	59306-03-19 10:48 G	23382208.76	23382208.95	23382209.18	0.0088	0.0060
Mercury	59342-09-15 13:26 G	23395538.02	23395538.06	23395538.13	0.0088	0.0084
Mercury	59342-12-12 17:02 G	23395626.11	23395626.21	23395626.31	0.0088	0.0074
Mercury	59343-03-10 19:55 G	23395714.21	23395714.33	23395714.47	0.0088	0.0063
Mercury	59343-06-06 23:02 G	23395802.33	23395802.46	23395802.63	0.0088	0.0053
Mercury	59343-09-03 02:24 G	23395890.45	23395890.60	23395890.78	0.0088	0.0042
Mercury	59343-11-30 05:31 G	23395978.57	23395978.73	23395978.92	0.0088	0.0033
Mercury	59344-02-26 09:07 G	23396066.70	23396066.88	23396067.06	0.0088	0.0021
Mercury	59344-05-24 12:29 G	23396154.83	23396155.02	23396155.20	0.0088	0.0011
Mercury	59344-08-20 15:36 G	23396242.96	23396243.15	23396243.34	0.0088	0.0001
Mercury	59344-11-16 18:58 G	23396331.10	23396331.29	23396331.48	0.0088	0.0011
Mercury	59345-02-12 22:19 G	23396419.24	23396419.43	23396419.61	0.0088	0.0022
Mercury	59345-05-12 01:26 G	23396507.39	23396507.56	23396507.74	0.0088	0.0032

Mercury	59345-08-08 04:34 G	23396595.54	23396595.69	23396595.87	0.0088	0.0043
Mercury	59345-11-04 07:41 G	23396683.69	23396683.82	23396683.99	0.0088	0.0055
Mercury	59346-01-31 11:31 G	23396771.85	23396771.98	23396772.11	0.0088	0.0065
Mercury	59346-04-29 14:38 G	23396860.02	23396860.11	23396860.22	0.0088	0.0076
Mercury	59346-07-26 17:46 G	23396948.22	23396948.24	23396948.30	0.0088	0.0087
Moon	59350-10-20 07:41 G	23398494.70	23398494.82	23398494.96	0.0088	0.0077
Earth	59350-10-20 07:12 G	23398494.71	23398494.80	23398494.95	0.0088	0.0079 *
Earth	59351-10-22 18:43 G	23398862.09	23398862.28	23398862.52	0.0088	0.0049
Moon	59351-10-22 20:38 G	23398862.17	23398862.36	23398862.58	0.0088	0.0050 *
Moon	59352-10-24 04:05 G	23399229.42	23399229.67	23399229.94	0.0088	0.0017
Earth	59352-10-24 06:14 G	23399229.52	23399229.76	23399230.03	0.0088	0.0019 *
Earth	59353-10-26 17:46 G	23399596.99	23399597.24	23399597.50	0.0088	0.0012
Moon	59353-10-26 21:07 G	23399597.13	23399597.38	23399597.63	0.0088	0.0012 *
Moon	59354-10-29 01:26 G	23399964.35	23399964.56	23399964.80	0.0089	0.0044
Earth	59354-10-29 04:48 G	23399964.50	23399964.70	23399964.95	0.0089	0.0043 *
Earth	59355-10-31 15:36 G	23400332.03	23400332.15	23400332.33	0.0089	0.0073
Moon	59355-10-31 19:12 G	23400332.18	23400332.30	23400332.47	0.0089	0.0073 *
Venus	59356-11-24 12:00 G	23400721.95	23400722.00	23400722.05	0.0089	0.0086
Venus	59357-07-08 00:29 G	23400947.45	23400947.52	23400947.62	0.0089	0.0081
Venus	59358-02-18 13:12 G	23401172.96	23401173.05	23401173.18	0.0089	0.0076
Venus	59358-10-02 02:10 G	23401398.48	23401398.59	23401398.74	0.0089	0.0071
Venus	59359-05-15 15:07 G	23401624.00	23401624.13	23401624.29	0.0089	0.0065
Venus	59359-12-27 03:50 G	23401849.52	23401849.66	23401849.84	0.0089	0.0060
Venus	59360-08-08 17:17 G	23402075.05	23402075.22	23402075.40	0.0089	0.0054
Venus	59361-03-22 06:00 G	23402300.58	23402300.75	23402300.95	0.0089	0.0049
Venus	59361-11-02 19:12 G	23402526.11	23402526.30	23402526.50	0.0089	0.0043
Venus	59362-06-16 07:55 G	23402751.64	23402751.83	23402752.04	0.0089	0.0038
Venus	59363-01-27 21:07 G	23402977.18	23402977.38	23402977.59	0.0089	0.0032
Venus	59363-09-10 10:19 G	23403202.72	23403202.93	23403203.14	0.0089	0.0026
Venus	59364-04-22 23:17 G	23403428.26	23403428.47	23403428.69	0.0089	0.0021

Venus	59364-12-04 12:14 G	23403653.80	23403654.01	23403654.23	0.0089	0.0015
Venus	59365-07-18 01:12 G	23403879.34	23403879.55	23403879.78	0.0089	0.0010
Venus	59366-02-28 14:24 G	23404104.88	23404105.10	23404105.32	0.0089	0.0004
Venus	59366-10-12 03:36 G	23404330.43	23404330.65	23404330.87	0.0089	0.0002
Venus	59367-05-25 16:19 G	23404555.97	23404556.18	23404556.41	0.0089	0.0008
Venus	59368-01-06 05:31 G	23404781.51	23404781.73	23404781.95	0.0089	0.0013
Venus	59368-08-18 18:29 G	23405007.06	23405007.27	23405007.49	0.0089	0.0019
Venus	59369-04-01 07:41 G	23405232.61	23405232.82	23405233.03	0.0089	0.0025
Venus	59369-11-12 20:38 G	23405458.16	23405458.36	23405458.57	0.0089	0.0030
Venus	59370-06-26 09:22 G	23405683.71	23405683.89	23405684.11	0.0089	0.0036
Venus	59371-02-06 22:34 G	23405909.26	23405909.44	23405909.64	0.0089	0.0041
Venus	59371-09-20 11:31 G	23406134.81	23406134.98	23406135.19	0.0089	0.0048
Venus	59372-05-03 00:58 G	23406360.37	23406360.54	23406360.72	0.0089	0.0052
Venus	59372-12-14 13:41 G	23406585.92	23406586.07	23406586.25	0.0089	0.0058
Venus	59373-07-28 03:07 G	23406811.48	23406811.63	23406811.79	0.0089	0.0064
Venus	59374-03-10 15:50 G	23407037.04	23407037.16	23407037.32	0.0089	0.0069
Venus	59374-10-22 05:17 G	23407262.61	23407262.72	23407262.85	0.0089	0.0075
Venus	59375-06-04 18:14 G	23407488.19	23407488.26	23407488.38	0.0089	0.0080
Venus	59376-01-16 07:26 G	23407713.77	23407713.81	23407713.89	0.0089	0.0086
Mars	59387-12-28 17:17 G	23412077.88	23412078.22	23412078.57	0.0090	0.0004
Mercury	59423-04-17 16:34 G	23424971.18	23424971.19	23424971.21	0.0089	0.0089
Mercury	59423-07-14 18:00 G	23425059.20	23425059.25	23425059.31	0.0089	0.0081
Mercury	59423-10-10 19:26 G	23425147.24	23425147.31	23425147.40	0.0089	0.0073
Mercury	59424-01-06 20:53 G	23425235.29	23425235.37	23425235.47	0.0089	0.0065
Mercury	59424-04-03 22:19 G	23425323.33	23425323.43	23425323.55	0.0089	0.0057
Mercury	59424-06-30 23:46 G	23425411.39	23425411.49	23425411.61	0.0089	0.0049
Mercury	59424-09-27 01:12 G	23425499.44	23425499.55	23425499.68	0.0089	0.0041
Mercury	59424-12-24 02:53 G	23425587.49	23425587.62	23425587.75	0.0089	0.0032
Mercury	59425-03-22 04:19 G	23425675.55	23425675.68	23425675.81	0.0089	0.0024
Mercury	59425-06-18 05:46 G	23425763.61	23425763.74	23425763.87	0.0089	0.0016



Mercury	59425-09-14 07:12 G	23425851.67	23425851.80	23425851.94	0.0089	0.0008
Mercury	59425-12-11 08:38 G	23425939.73	23425939.86	23425940.00	0.0089	0.0001
Mercury	59426-03-09 10:05 G	23426027.79	23426027.92	23426028.06	0.0089	0.0008
Mercury	59426-06-05 11:31 G	23426115.85	23426115.98	23426116.11	0.0089	0.0016
Mercury	59426-09-01 12:43 G	23426203.91	23426204.03	23426204.17	0.0089	0.0024
Mercury	59426-11-28 14:10 G	23426291.97	23426292.09	23426292.22	0.0089	0.0032
Mercury	59427-02-24 15:36 G	23426380.04	23426380.15	23426380.28	0.0089	0.0040
Mercury	59427-05-23 16:48 G	23426468.10	23426468.20	23426468.33	0.0089	0.0049
Mercury	59427-08-19 18:29 G	23426556.17	23426556.27	23426556.38	0.0089	0.0055
Mercury	59427-11-15 19:55 G	23426644.24	23426644.33	23426644.43	0.0089	0.0063
Mercury	59428-02-11 21:07 G	23426732.31	23426732.38	23426732.47	0.0089	0.0071
Mercury	59428-05-09 22:34 G	23426820.39	23426820.44	23426820.51	0.0089	0.0079
Mercury	59428-08-05 23:46 G	23426908.48	23426908.49	23426908.53	0.0089	0.0087
Moon	59432-04-19 08:38 G	23428260.71	23428260.86	23428261.02	0.0089	0.0071
Earth	59432-04-19 09:50 G	23428260.75	23428260.91	23428261.09	0.0089	0.0067 *
Earth	59433-04-21 21:36 G	23428628.18	23428628.40	23428628.65	0.0089	0.0037
Moon	59433-04-21 23:31 G	23428628.27	23428628.48	23428628.73	0.0089	0.0033 *
Moon	59434-04-24 06:43 G	23428995.53	23428995.78	23428996.05	0.0089	0.0011
Earth	59434-04-24 09:50 G	23428995.66	23428995.91	23428996.17	0.0089	0.0006 *
Earth	59435-04-26 21:50 G	23429363.16	23429363.41	23429363.66	0.0089	0.0024
Moon	59435-04-27 01:12 G	23429363.32	23429363.55	23429363.80	0.0089	0.0029 *
Moon	59436-04-28 06:00 G	23429730.56	23429730.75	23429730.98	0.0089	0.0051
Earth	59436-04-28 09:36 G	23429730.71	23429730.90	23429731.11	0.0089	0.0055 *
Earth	59437-04-30 21:36 G	23430098.33	23430098.40	23430098.47	0.0089	0.0085
Venus	59437-10-18 19:55 G	23430269.28	23430269.33	23430269.38	0.0089	0.0086
Venus	59438-06-01 08:38 G	23430494.79	23430494.86	23430494.96	0.0089	0.0081
Venus	59439-01-12 21:36 G	23430720.31	23430720.40	23430720.54	0.0089	0.0076
Venus	59439-08-26 10:48 G	23430945.84	23430945.95	23430946.11	0.0089	0.0071
Venus	59440-04-08 00:14 G	23431171.37	23431171.51	23431171.67	0.0089	0.0065
Venus	59440-11-19 13:12 G	23431396.91	23431397.05	23431397.23	0.0089	0.0060

Venus	59441-07-03 02:38 G	23431622.44	23431622.61	23431622.79	0.0089	0.0054
Venus	59442-02-13 15:36 G	23431847.98	23431848.15	23431848.35	0.0089	0.0049
Venus	59442-09-27 05:02 G	23432073.52	23432073.71	23432073.91	0.0089	0.0043
Venus	59443-05-10 17:46 G	23432299.06	23432299.24	23432299.46	0.0089	0.0038
Venus	59443-12-22 06:58 G	23432524.59	23432524.79	23432525.01	0.0089	0.0032
Venus	59444-08-03 19:55 G	23432750.13	23432750.33	23432750.55	0.0088	0.0027
Venus	59445-03-17 09:22 G	23432975.68	23432975.89	23432976.11	0.0088	0.0021
Venus	59445-10-28 22:19 G	23433201.22	23433201.43	23433201.65	0.0088	0.0015
Venus	59446-06-11 11:17 G	23433426.76	23433426.97	23433427.19	0.0088	0.0010
Venus	59447-01-23 00:14 G	23433652.29	23433652.51	23433652.74	0.0088	0.0005
Venus	59447-09-05 13:26 G	23433877.84	23433878.06	23433878.28	0.0088	0.0002
Venus	59448-04-18 02:24 G	23434103.38	23434103.60	23434103.82	0.0088	0.0007
Venus	59448-11-29 15:22 G	23434328.92	23434329.14	23434329.36	0.0088	0.0013
Venus	59449-07-13 04:05 G	23434554.46	23434554.67	23434554.90	0.0088	0.0018
Venus	59450-02-23 17:17 G	23434780.01	23434780.22	23434780.44	0.0088	0.0024
Venus	59450-10-07 06:00 G	23435005.56	23435005.75	23435005.97	0.0088	0.0030
Venus	59451-05-20 19:12 G	23435231.10	23435231.30	23435231.51	0.0088	0.0035
Venus	59452-01-01 07:55 G	23435456.65	23435456.83	23435457.04	0.0088	0.0040
Venus	59452-08-13 21:07 G	23435682.20	23435682.38	23435682.57	0.0088	0.0046
Venus	59453-03-27 09:50 G	23435907.75	23435907.91	23435908.11	0.0088	0.0052
Venus	59453-11-07 23:02 G	23436133.30	23436133.46	23436133.64	0.0088	0.0057
Venus	59454-06-21 11:46 G	23436358.85	23436358.99	23436359.17	0.0088	0.0062
Venus	59455-02-02 00:43 G	23436584.41	23436584.53	23436584.69	0.0088	0.0067
Venus	59455-09-15 13:55 G	23436809.96	23436810.08	23436810.21	0.0088	0.0072
Venus	59456-04-28 03:07 G	23437035.53	23437035.63	23437035.73	0.0088	0.0078
Venus	59456-12-09 15:22 G	23437261.10	23437261.14	23437261.24	0.0088	0.0083
Venus	59457-07-23 04:34 G	23437486.69	23437486.69	23437486.72	0.0088	0.0088
Mars	59469-11-03 00:58 G	23441972.25	23441972.54	23441972.83	0.0088	0.0008
Mercury	59507-06-14 12:00 G	23455708.93	23455709.00	23455709.09	0.0088	0.0079
Mercury	59507-09-10 15:07 G	23455797.03	23455797.13	23455797.25	0.0088	0.0069

Mercury	59507-12-07 18:29 G	23455885.14	23455885.27	23455885.41	0.0088	0.0059
Mercury	59508-03-04 21:36 G	23455973.25	23455973.40	23455973.56	0.0088	0.0048
Mercury	59508-06-01 00:43 G	23456061.37	23456061.53	23456061.71	0.0088	0.0038
Mercury	59508-08-28 04:05 G	23456149.50	23456149.67	23456149.86	0.0088	0.0027
Mercury	59508-11-24 07:26 G	23456237.63	23456237.81	23456238.00	0.0088	0.0017
Mercury	59509-02-20 10:48 G	23456325.76	23456325.95	23456326.14	0.0088	0.0006
Mercury	59509-05-19 13:55 G	23456413.90	23456414.08	23456414.27	0.0088	0.0005
Mercury	59509-08-15 17:17 G	23456502.03	23456502.22	23456502.41	0.0088	0.0015
Mercury	59509-11-11 20:24 G	23456590.18	23456590.35	23456590.54	0.0088	0.0026
Mercury	59510-02-07 23:31 G	23456678.32	23456678.48	23456678.67	0.0088	0.0037
Mercury	59510-05-07 03:07 G	23456766.47	23456766.63	23456766.79	0.0088	0.0048
Mercury	59510-08-03 06:14 G	23456854.63	23456854.76	23456854.91	0.0088	0.0058
Mercury	59510-10-30 09:22 G	23456942.79	23456942.89	23456943.03	0.0088	0.0070
Mercury	59511-01-26 12:43 G	23457030.97	23457031.03	23457031.13	0.0088	0.0080
Moon	59515-10-23 23:46 G	23458762.32	23458762.49	23458762.71	0.0088	0.0060
Earth	59515-10-24 03:07 G	23458762.47	23458762.63	23458762.83	0.0088	0.0064 *
Earth	59516-10-25 14:38 G	23459129.88	23459130.11	23459130.36	0.0088	0.0033
Moon	59516-10-25 18:00 G	23459130.03	23459130.25	23459130.49	0.0088	0.0038 *
Moon	59517-10-27 22:48 G	23459497.19	23459497.45	23459497.71	0.0088	0.0002
Earth	59517-10-28 02:24 G	23459497.35	23459497.60	23459497.86	0.0088	0.0003 *
Earth	59518-10-30 13:26 G	23459864.83	23459865.06	23459865.32	0.0088	0.0027
Moon	59518-10-30 16:48 G	23459864.95	23459865.20	23459865.46	0.0088	0.0023 *
Moon	59519-11-01 22:19 G	23460232.27	23460232.43	23460232.62	0.0089	0.0062
Earth	59519-11-02 00:29 G	23460232.35	23460232.52	23460232.74	0.0089	0.0058 *
Earth	59520-11-03 11:46 G	23460599.98	23460599.99	23460600.05	0.0089	0.0088
Moon	59520-11-03 13:41 G	23460600.00	23460600.07	23460600.18	0.0089	0.0083 *
Venus	59521-02-27 21:36 G	23460716.36	23460716.40	23460716.49	0.0089	0.0085
Venus	59521-10-11 11:02 G	23460941.87	23460941.96	23460942.06	0.0089	0.0079
Venus	59522-05-24 23:46 G	23461167.38	23461167.49	23461167.62	0.0089	0.0074
Venus	59523-01-05 12:29 G	23461392.90	23461393.02	23461393.17	0.0089	0.0069

Venus	59523-08-19 01:26 G	23461618.43	23461618.56	23461618.73	0.0089	0.0064
Venus	59524-03-31 14:38 G	23461843.95	23461844.11	23461844.28	0.0089	0.0058
Venus	59524-11-12 03:22 G	23462069.48	23462069.64	23462069.83	0.0089	0.0053
Venus	59525-06-25 16:19 G	23462295.00	23462295.18	23462295.37	0.0089	0.0047
Venus	59526-02-06 05:02 G	23462520.53	23462520.71	23462520.92	0.0089	0.0042
Venus	59526-09-19 18:29 G	23462746.07	23462746.27	23462746.47	0.0089	0.0036
Venus	59527-05-03 07:12 G	23462971.61	23462971.80	23462972.02	0.0089	0.0031
Venus	59527-12-14 20:24 G	23463197.14	23463197.35	23463197.56	0.0089	0.0025
Venus	59528-07-27 09:07 G	23463422.68	23463422.88	23463423.11	0.0089	0.0020
Venus	59529-03-09 22:19 G	23463648.22	23463648.43	23463648.65	0.0089	0.0014
Venus	59529-10-21 11:31 G	23463873.76	23463873.98	23463874.20	0.0089	0.0008
Venus	59530-06-04 00:29 G	23464099.30	23464099.52	23464099.74	0.0089	0.0003
Venus	59531-01-15 13:41 G	23464324.85	23464325.07	23464325.29	0.0089	0.0003
Venus	59531-08-29 02:38 G	23464550.40	23464550.61	23464550.84	0.0089	0.0009
Venus	59532-04-10 15:50 G	23464775.95	23464776.16	23464776.38	0.0089	0.0014
Venus	59532-11-22 04:48 G	23465001.49	23465001.70	23465001.92	0.0089	0.0020
Venus	59533-07-05 18:00 G	23465227.04	23465227.25	23465227.46	0.0089	0.0026
Venus	59534-02-16 06:43 G	23465452.59	23465452.78	23465453.00	0.0089	0.0032
Venus	59534-09-29 19:55 G	23465678.14	23465678.33	23465678.54	0.0089	0.0037
Venus	59535-05-13 09:07 G	23465903.69	23465903.88	23465904.08	0.0089	0.0042
Venus	59535-12-24 21:50 G	23466129.24	23466129.41	23466129.61	0.0089	0.0048
Venus	59536-08-06 11:02 G	23466354.80	23466354.96	23466355.15	0.0089	0.0054
Venus	59537-03-20 00:00 G	23466580.35	23466580.50	23466580.68	0.0089	0.0059
Venus	59537-10-31 13:12 G	23466805.91	23466806.05	23466806.22	0.0089	0.0065
Venus	59538-06-14 02:38 G	23467031.47	23467031.61	23467031.74	0.0089	0.0070
Venus	59539-01-25 15:07 G	23467257.04	23467257.13	23467257.27	0.0089	0.0076
Venus	59539-09-08 04:34 G	23467482.61	23467482.69	23467482.80	0.0089	0.0081
Venus	59540-04-20 18:00 G	23467708.19	23467708.25	23467708.31	0.0089	0.0086
Mars	59551-08-12 22:19 G	23471839.24	23471839.43	23471839.66	0.0090	0.0070
Mars	59553-07-09 09:07 G	23472535.82	23472535.88	23472535.98	0.0090	0.0087

Mercury	59588-01-13 16:05 G	23485142.14	23485142.17	23485142.21	0.0089	0.0086
Mercury	59588-04-10 17:31 G	23485230.17	23485230.23	23485230.30	0.0089	0.0078
Mercury	59588-07-07 18:58 G	23485318.21	23485318.29	23485318.38	0.0089	0.0069
Mercury	59588-10-03 20:24 G	23485406.26	23485406.35	23485406.45	0.0089	0.0061
Mercury	59588-12-30 21:50 G	23485494.31	23485494.41	23485494.52	0.0089	0.0053
Mercury	59589-03-28 23:17 G	23485582.36	23485582.47	23485582.59	0.0089	0.0045
Mercury	59589-06-25 00:43 G	23485670.41	23485670.53	23485670.66	0.0089	0.0037
Mercury	59589-09-21 02:10 G	23485758.47	23485758.59	23485758.73	0.0089	0.0029
Mercury	59589-12-18 03:36 G	23485846.52	23485846.65	23485846.79	0.0089	0.0021
Mercury	59590-03-16 05:17 G	23485934.58	23485934.72	23485934.85	0.0089	0.0013
Mercury	59590-06-12 06:43 G	23486022.64	23486022.78	23486022.91	0.0089	0.0005
Mercury	59590-09-08 08:10 G	23486110.70	23486110.84	23486110.97	0.0089	0.0004
Mercury	59590-12-05 09:22 G	23486198.76	23486198.89	23486199.03	0.0089	0.0012
Mercury	59591-03-03 10:48 G	23486286.82	23486286.95	23486287.09	0.0089	0.0019
Mercury	59591-05-30 12:14 G	23486374.89	23486375.01	23486375.14	0.0089	0.0027
Mercury	59591-08-26 13:41 G	23486462.95	23486463.07	23486463.20	0.0089	0.0035
Mercury	59591-11-22 15:07 G	23486551.01	23486551.13	23486551.25	0.0089	0.0043
Mercury	59592-02-18 16:34 G	23486639.08	23486639.19	23486639.30	0.0089	0.0050
Mercury	59592-05-16 17:46 G	23486727.15	23486727.24	23486727.35	0.0089	0.0059
Mercury	59592-08-12 19:12 G	23486815.22	23486815.30	23486815.40	0.0089	0.0066
Mercury	59592-11-08 20:24 G	23486903.29	23486903.35	23486903.44	0.0089	0.0075
Mercury	59593-02-04 21:50 G	23486991.37	23486991.41	23486991.47	0.0089	0.0082
Earth	59596-04-19 17:02 G	23488161.14	23488161.21	23488161.33	0.0089	0.0083
Moon	59596-04-19 20:10 G	23488161.26	23488161.34	23488161.45	0.0089	0.0082 *
Moon	59597-04-22 01:41 G	23488528.39	23488528.57	23488528.81	0.0089	0.0053
Earth	59597-04-22 05:17 G	23488528.53	23488528.72	23488528.94	0.0089	0.0052 *
Earth	59598-04-24 17:17 G	23488895.98	23488896.22	23488896.48	0.0089	0.0022
Moon	59598-04-24 20:53 G	23488896.13	23488896.37	23488896.63	0.0089	0.0020 *
Moon	59599-04-27 02:10 G	23489263.34	23489263.59	23489263.85	0.0089	0.0008
Earth	59599-04-27 05:31 G	23489263.48	23489263.73	23489263.99	0.0089	0.0009 *

Earth	59600-04-28 17:02 G	23489631.00	23489631.21	23489631.46	0.0089	0.0040
Moon	59600-04-28 20:10 G	23489631.11	23489631.34	23489631.58	0.0089	0.0041 *
Moon	59601-05-01 02:53 G	23489998.48	23489998.62	23489998.80	0.0089	0.0068
Earth	59601-05-01 05:02 G	23489998.57	23489998.71	23489998.89	0.0089	0.0070 *
Venus	59602-01-21 05:17 G	23490263.68	23490263.72	23490263.80	0.0089	0.0085
Venus	59602-09-03 18:58 G	23490489.19	23490489.29	23490489.38	0.0089	0.0079
Venus	59603-04-17 07:41 G	23490714.71	23490714.82	23490714.95	0.0089	0.0074
Venus	59603-11-28 20:38 G	23490940.24	23490940.36	23490940.52	0.0089	0.0069
Venus	59604-07-11 09:36 G	23491165.77	23491165.90	23491166.08	0.0089	0.0064
Venus	59605-02-21 23:17 G	23491391.31	23491391.47	23491391.65	0.0089	0.0058
Venus	59605-10-05 12:14 G	23491616.85	23491617.01	23491617.20	0.0089	0.0053
Venus	59606-05-19 01:41 G	23491842.39	23491842.57	23491842.76	0.0089	0.0047
Venus	59606-12-30 14:24 G	23492067.92	23492068.10	23492068.31	0.0089	0.0042
Venus	59607-08-13 03:50 G	23492293.46	23492293.66	23492293.87	0.0089	0.0036
Venus	59608-03-25 17:02 G	23492519.01	23492519.21	23492519.42	0.0089	0.0030
Venus	59608-11-06 06:14 G	23492744.55	23492744.76	23492744.97	0.0089	0.0025
Venus	59609-06-19 19:12 G	23492970.09	23492970.30	23492970.52	0.0088	0.0019
Venus	59610-01-31 08:24 G	23493195.63	23493195.85	23493196.07	0.0088	0.0014
Venus	59610-09-13 21:22 G	23493421.17	23493421.39	23493421.61	0.0088	0.0008
Venus	59611-04-27 10:19 G	23493646.72	23493646.93	23493647.16	0.0088	0.0004
Venus	59611-12-08 23:31 G	23493872.26	23493872.48	23493872.70	0.0088	0.0003
Venus	59612-07-21 12:14 G	23494097.80	23494098.01	23494098.24	0.0088	0.0009
Venus	59613-03-04 01:26 G	23494323.34	23494323.56	23494323.78	0.0088	0.0014
Venus	59613-10-15 14:24 G	23494548.89	23494549.10	23494549.32	0.0088	0.0019
Venus	59614-05-29 03:22 G	23494774.43	23494774.64	23494774.85	0.0088	0.0025
Venus	59615-01-09 16:05 G	23494999.97	23495000.17	23495000.38	0.0088	0.0030
Venus	59615-08-23 05:02 G	23495225.51	23495225.71	23495225.92	0.0088	0.0036
Venus	59616-04-04 18:00 G	23495451.07	23495451.25	23495451.46	0.0088	0.0041
Venus	59616-11-16 06:58 G	23495676.61	23495676.79	23495676.99	0.0088	0.0047
Venus	59617-06-29 20:10 G	23495902.16	23495902.34	23495902.52	0.0088	0.0052

Venus	59618-02-10 08:38 G	23496127.71	23496127.86	23496128.05	0.0088	0.0058
Venus	59618-09-23 21:50 G	23496353.26	23496353.41	23496353.57	0.0088	0.0062
Venus	59619-05-07 11:02 G	23496578.82	23496578.96	23496579.10	0.0088	0.0068
Venus	59619-12-18 23:31 G	23496804.38	23496804.48	23496804.62	0.0088	0.0073
Venus	59620-07-31 12:29 G	23497029.94	23497030.02	23497030.14	0.0088	0.0078
Venus	59621-03-14 01:26 G	23497255.51	23497255.56	23497255.65	0.0088	0.0084
Mars	59633-06-19 14:38 G	23501735.87	23501736.11	23501736.38	0.0088	0.0044
Mars	59635-05-14 04:05 G	23502429.57	23502429.67	23502429.81	0.0088	0.0080
Mercury	59671-12-13 06:58 G	23515791.77	23515791.79	23515791.86	0.0088	0.0085
Mercury	59672-03-10 10:34 G	23515879.85	23515879.94	23515880.04	0.0088	0.0074
Mercury	59672-06-06 13:26 G	23515967.95	23515968.06	23515968.20	0.0088	0.0065
Mercury	59672-09-02 17:02 G	23516056.06	23516056.21	23516056.36	0.0088	0.0054
Mercury	59672-11-29 20:10 G	23516144.18	23516144.34	23516144.51	0.0088	0.0043
Mercury	59673-02-25 23:31 G	23516232.31	23516232.48	23516232.65	0.0088	0.0033
Mercury	59673-05-25 02:38 G	23516320.43	23516320.61	23516320.80	0.0088	0.0022
Mercury	59673-08-21 06:00 G	23516408.56	23516408.75	23516408.94	0.0088	0.0011
Mercury	59673-11-17 09:22 G	23516496.70	23516496.89	23516497.07	0.0088	0.0002
Mercury	59674-02-13 12:29 G	23516584.83	23516585.02	23516585.21	0.0088	0.0010
Mercury	59674-05-12 15:50 G	23516672.98	23516673.16	23516673.34	0.0088	0.0020
Mercury	59674-08-08 18:58 G	23516761.12	23516761.29	23516761.47	0.0088	0.0031
Mercury	59674-11-04 22:05 G	23516849.27	23516849.42	23516849.60	0.0088	0.0042
Mercury	59675-02-01 01:41 G	23516937.42	23516937.57	23516937.72	0.0088	0.0053
Mercury	59675-04-30 04:48 G	23517025.58	23517025.70	23517025.84	0.0088	0.0064
Mercury	59675-07-27 08:10 G	23517113.75	23517113.84	23517113.95	0.0088	0.0074
Mercury	59675-10-23 11:17 G	23517201.94	23517201.97	23517202.04	0.0088	0.0086
Earth	59679-10-23 12:58 G	23518662.93	23518663.04	23518663.17	0.0088	0.0078
Moon	59679-10-23 16:19 G	23518663.07	23518663.18	23518663.34	0.0088	0.0076 *
Moon	59680-10-24 20:53 G	23519030.18	23519030.37	23519030.60	0.0088	0.0051
Earth	59680-10-25 00:29 G	23519030.31	23519030.52	23519030.74	0.0088	0.0048 *
Earth	59681-10-27 11:46 G	23519397.74	23519397.99	23519398.24	0.0088	0.0018

Moon	59681-10-27 14:53 G	23519397.87	23519398.12	23519398.39	0.0088	0.0016 *
Moon	59682-10-29 21:07 G	23519765.14	23519765.38	23519765.63	0.0088	0.0010
Earth	59682-10-29 23:02 G	23519765.21	23519765.46	23519765.72	0.0088	0.0013 *
Earth	59683-11-01 10:05 G	23520132.71	23520132.92	23520133.16	0.0088	0.0043
Moon	59683-11-01 10:48 G	23520132.74	23520132.95	23520133.20	0.0088	0.0045 *
Venus	59684-10-18 19:26 G	23520485.31	23520485.31	23520485.37	0.0089	0.0088
Earth	59684-11-02 21:22 G	23520500.26	23520500.39	23520500.56	0.0089	0.0073
Moon	59684-11-02 21:22 G	23520500.27	23520500.39	23520500.56	0.0089	0.0072 *
Venus	59685-06-01 08:24 G	23520710.79	23520710.85	23520710.95	0.0089	0.0083
Venus	59686-01-12 21:07 G	23520936.30	23520936.38	23520936.51	0.0089	0.0078
Venus	59686-08-26 10:34 G	23521161.83	23521161.94	23521162.08	0.0089	0.0072
Venus	59687-04-08 23:31 G	23521387.35	23521387.48	23521387.63	0.0089	0.0067
Venus	59687-11-20 12:14 G	23521612.87	23521613.01	23521613.18	0.0089	0.0062
Venus	59688-07-03 01:26 G	23521838.39	23521838.56	23521838.73	0.0089	0.0056
Venus	59689-02-13 14:10 G	23522063.92	23522064.09	23522064.28	0.0089	0.0051
Venus	59689-09-27 02:53 G	23522289.45	23522289.62	23522289.83	0.0089	0.0046
Venus	59690-05-10 16:05 G	23522514.98	23522515.17	23522515.37	0.0089	0.0040
Venus	59690-12-22 04:48 G	23522740.51	23522740.70	23522740.92	0.0089	0.0035
Venus	59691-08-04 18:00 G	23522966.05	23522966.25	23522966.46	0.0089	0.0029
Venus	59692-03-17 06:43 G	23523191.58	23523191.78	23523192.01	0.0089	0.0024
Venus	59692-10-28 19:55 G	23523417.12	23523417.33	23523417.55	0.0089	0.0018
Venus	59693-06-11 08:53 G	23523642.66	23523642.87	23523643.09	0.0089	0.0013
Venus	59694-01-22 21:50 G	23523868.19	23523868.41	23523868.63	0.0089	0.0007
Venus	59694-09-05 11:02 G	23524093.74	23524093.96	23524094.18	0.0089	0.0001
Venus	59695-04-19 00:00 G	23524319.29	23524319.50	23524319.72	0.0089	0.0005
Venus	59695-11-30 12:58 G	23524544.83	23524545.04	23524545.27	0.0089	0.0010
Venus	59696-07-13 02:10 G	23524770.37	23524770.59	23524770.81	0.0089	0.0015
Venus	59697-02-23 15:07 G	23524995.92	23524996.13	23524996.35	0.0089	0.0021
Venus	59697-10-07 04:05 G	23525221.48	23525221.67	23525221.89	0.0089	0.0027
Venus	59698-05-20 17:17 G	23525447.03	23525447.22	23525447.43	0.0089	0.0032



Venus	59699-01-01 06:14 G	23525672.58	23525672.76	23525672.97	0.0089	0.0038
Venus	59699-08-14 19:26 G	23525898.13	23525898.31	23525898.51	0.0089	0.0043
Venus	59700-03-28 08:24 G	23526123.68	23526123.85	23526124.05	0.0089	0.0049
Venus	59700-11-08 21:36 G	23526349.24	23526349.40	23526349.59	0.0089	0.0054
Venus	59701-06-22 10:48 G	23526574.79	23526574.95	23526575.12	0.0089	0.0060
Venus	59702-02-02 23:31 G	23526800.35	23526800.48	23526800.65	0.0089	0.0065
Venus	59702-09-16 12:58 G	23527025.92	23527026.04	23527026.18	0.0089	0.0070
Venus	59703-04-30 02:10 G	23527251.48	23527251.59	23527251.71	0.0089	0.0076
Venus	59703-12-11 14:53 G	23527477.05	23527477.12	23527477.23	0.0089	0.0081
Venus	59704-07-24 03:50 G	23527702.63	23527702.66	23527702.74	0.0089	0.0087
Mars	59717-02-20 18:00 G	23532296.92	23532297.25	23532297.58	0.0090	0.0022
Mercury	59752-10-10 15:22 G	23545313.10	23545313.14	23545313.21	0.0089	0.0082
Mercury	59753-01-06 17:02 G	23545401.14	23545401.21	23545401.29	0.0089	0.0074
Mercury	59753-04-04 18:29 G	23545489.19	23545489.27	23545489.37	0.0089	0.0066
Mercury	59753-07-01 19:55 G	23545577.23	23545577.33	23545577.44	0.0089	0.0058
Mercury	59753-09-27 21:22 G	23545665.29	23545665.39	23545665.51	0.0089	0.0050
Mercury	59753-12-24 23:02 G	23545753.34	23545753.46	23545753.58	0.0089	0.0041
Mercury	59754-03-23 00:29 G	23545841.39	23545841.52	23545841.65	0.0089	0.0033
Mercury	59754-06-19 01:55 G	23545929.45	23545929.58	23545929.71	0.0089	0.0025
Mercury	59754-09-15 03:22 G	23546017.51	23546017.64	23546017.78	0.0089	0.0017
Mercury	59754-12-12 04:48 G	23546105.57	23546105.70	23546105.84	0.0089	0.0009
Mercury	59755-03-10 06:14 G	23546193.63	23546193.76	23546193.90	0.0089	0.0001
Mercury	59755-06-06 07:41 G	23546281.69	23546281.82	23546281.96	0.0089	0.0007
Mercury	59755-09-02 09:07 G	23546369.75	23546369.88	23546370.02	0.0089	0.0015
Mercury	59755-11-29 10:34 G	23546457.81	23546457.94	23546458.07	0.0089	0.0023
Mercury	59756-02-25 12:00 G	23546545.87	23546546.00	23546546.13	0.0089	0.0030
Mercury	59756-05-23 13:12 G	23546633.94	23546634.05	23546634.18	0.0089	0.0039
Mercury	59756-08-19 14:38 G	23546722.00	23546722.11	23546722.23	0.0089	0.0046
Mercury	59756-11-15 16:05 G	23546810.07	23546810.17	23546810.28	0.0089	0.0054
Mercury	59757-02-11 17:17 G	23546898.14	23546898.22	23546898.33	0.0089	0.0062

Mercury	59757-05-10 18:58 G	23546986.21	23546986.29	23546986.37	0.0089	0.0070
Mercury	59757-08-06 20:10 G	23547074.28	23547074.34	23547074.41	0.0089	0.0078
Mercury	59757-11-02 21:36 G	23547162.37	23547162.40	23547162.44	0.0089	0.0085
Earth	59761-04-22 13:41 G	23548428.91	23548429.07	23548429.24	0.0089	0.0067
Moon	59761-04-22 16:48 G	23548429.07	23548429.20	23548429.37	0.0089	0.0072 *
Moon	59762-04-24 22:34 G	23548796.21	23548796.44	23548796.68	0.0089	0.0032
Earth	59762-04-25 01:41 G	23548796.35	23548796.57	23548796.82	0.0089	0.0037 *
Earth	59763-04-27 13:55 G	23549163.82	23549164.08	23549164.33	0.0089	0.0006
Moon	59763-04-27 16:19 G	23549163.92	23549164.18	23549164.45	0.0089	0.0011 *
Moon	59764-04-29 00:29 G	23549531.29	23549531.52	23549531.77	0.0089	0.0029
Earth	59764-04-29 01:26 G	23549531.33	23549531.56	23549531.83	0.0089	0.0025 *
Earth	59765-05-01 13:26 G	23549898.87	23549899.06	23549899.27	0.0089	0.0055
Moon	59765-05-01 13:41 G	23549898.87	23549899.07	23549899.31	0.0089	0.0051 *
Venus	59765-09-12 02:24 G	23550032.59	23550032.60	23550032.65	0.0089	0.0088
Venus	59766-04-25 15:22 G	23550258.08	23550258.14	23550258.24	0.0089	0.0083
Earth	59766-05-04 01:41 G	23550266.50	23550266.57	23550266.64	0.0089	0.0085
Venus	59766-12-07 04:19 G	23550483.60	23550483.68	23550483.81	0.0089	0.0078
Venus	59767-07-20 18:00 G	23550709.13	23550709.25	23550709.38	0.0089	0.0072
Venus	59768-03-02 06:58 G	23550934.66	23550934.79	23550934.95	0.0089	0.0067
Venus	59768-10-13 19:55 G	23551160.19	23551160.33	23551160.51	0.0089	0.0062
Venus	59769-05-27 08:53 G	23551385.73	23551385.87	23551386.06	0.0089	0.0057
Venus	59770-01-07 22:19 G	23551611.26	23551611.43	23551611.62	0.0089	0.0051
Venus	59770-08-21 11:17 G	23551836.80	23551836.97	23551837.18	0.0089	0.0046
Venus	59771-04-04 00:43 G	23552062.34	23552062.53	23552062.73	0.0089	0.0040
Venus	59771-11-15 13:41 G	23552287.88	23552288.07	23552288.29	0.0089	0.0035
Venus	59772-06-28 03:07 G	23552513.42	23552513.63	23552513.84	0.0089	0.0029
Venus	59773-02-08 16:05 G	23552738.97	23552739.17	23552739.39	0.0089	0.0024
Venus	59773-09-22 05:17 G	23552964.51	23552964.72	23552964.94	0.0088	0.0018
Venus	59774-05-05 18:29 G	23553190.05	23553190.27	23553190.49	0.0088	0.0012
Venus	59774-12-17 07:26 G	23553415.59	23553415.81	23553416.04	0.0088	0.0007

Venus	59775-07-30 20:38 G	23553641.14	23553641.36	23553641.58	0.0088	0.0001
Venus	59776-03-12 09:50 G	23553866.69	23553866.91	23553867.13	0.0088	0.0004
Venus	59776-10-23 22:48 G	23554092.23	23554092.45	23554092.67	0.0088	0.0010
Venus	59777-06-06 11:31 G	23554317.77	23554317.98	23554318.21	0.0088	0.0016
Venus	59778-01-18 00:43 G	23554543.32	23554543.53	23554543.75	0.0088	0.0020
Venus	59778-08-31 13:26 G	23554768.86	23554769.06	23554769.28	0.0088	0.0026
Venus	59779-04-14 02:38 G	23554994.41	23554994.61	23554994.83	0.0088	0.0031
Venus	59779-11-25 15:50 G	23555219.96	23555220.16	23555220.36	0.0088	0.0037
Venus	59780-07-08 04:19 G	23555445.50	23555445.68	23555445.89	0.0088	0.0042
Venus	59781-02-18 17:31 G	23555671.05	23555671.23	23555671.42	0.0088	0.0047
Venus	59781-10-02 06:29 G	23555896.60	23555896.77	23555896.95	0.0088	0.0053
Venus	59782-05-15 19:12 G	23556122.15	23556122.30	23556122.48	0.0088	0.0058
Venus	59782-12-27 08:10 G	23556347.70	23556347.84	23556348.01	0.0088	0.0063
Venus	59783-08-09 21:07 G	23556573.26	23556573.38	23556573.53	0.0088	0.0069
Venus	59784-03-22 10:34 G	23556798.82	23556798.94	23556799.06	0.0088	0.0074
Venus	59784-11-02 22:48 G	23557024.38	23557024.45	23557024.57	0.0088	0.0079
Venus	59785-06-16 11:46 G	23557249.95	23557249.99	23557250.08	0.0088	0.0084
Mars	59798-12-28 18:14 G	23562193.01	23562193.26	23562193.56	0.0088	0.0030
Mercury	59836-09-10 05:31 G	23575962.68	23575962.73	23575962.83	0.0088	0.0080
Mercury	59836-12-07 09:07 G	23576050.77	23576050.88	23576051.00	0.0088	0.0069
Mercury	59837-03-05 12:00 G	23576138.88	23576139.00	23576139.16	0.0088	0.0059
Mercury	59837-06-01 15:36 G	23576227.00	23576227.15	23576227.31	0.0088	0.0048
Mercury	59837-08-28 18:43 G	23576315.12	23576315.28	23576315.45	0.0088	0.0038
Mercury	59837-11-24 22:05 G	23576403.24	23576403.42	23576403.60	0.0088	0.0027
Mercury	59838-02-21 01:12 G	23576491.37	23576491.55	23576491.74	0.0088	0.0017
Mercury	59838-05-20 04:34 G	23576579.50	23576579.69	23576579.88	0.0088	0.0006
Mercury	59838-08-16 07:41 G	23576667.64	23576667.82	23576668.01	0.0088	0.0005
Mercury	59838-11-12 11:02 G	23576755.78	23576755.96	23576756.15	0.0088	0.0015
Mercury	59839-02-08 14:24 G	23576843.92	23576844.10	23576844.28	0.0088	0.0026
Mercury	59839-05-07 17:31 G	23576932.06	23576932.23	23576932.41	0.0088	0.0036

Mercury	59839-08-03 20:38 G	23577020.21	23577020.36	23577020.53	0.0088	0.0047
Mercury	59839-10-30 23:46 G	23577108.37	23577108.49	23577108.65	0.0088	0.0059
Mercury	59840-01-27 03:36 G	23577196.53	23577196.65	23577196.77	0.0088	0.0069
Mercury	59840-04-24 06:43 G	23577284.71	23577284.78	23577284.87	0.0088	0.0080
Earth	59844-10-26 09:36 G	23578930.74	23578930.90	23578931.11	0.0088	0.0063
Moon	59844-10-26 12:14 G	23578930.83	23578931.01	23578931.22	0.0088	0.0059 *
Moon	59845-10-28 19:55 G	23579298.10	23579298.33	23579298.56	0.0088	0.0036
Earth	59845-10-28 21:07 G	23579298.16	23579298.38	23579298.64	0.0088	0.0033 *
Earth	59846-10-31 08:38 G	23579665.61	23579665.86	23579666.12	0.0088	0.0002
Moon	59846-10-31 09:07 G	23579665.61	23579665.88	23579666.15	0.0088	0.0002 *
Earth	59847-11-02 19:41 G	23580033.09	23580033.32	23580033.58	0.0088	0.0029
Moon	59847-11-02 20:53 G	23580033.15	23580033.37	23580033.63	0.0088	0.0026 *
Moon	59848-11-04 05:02 G	23580400.55	23580400.71	23580400.92	0.0089	0.0063
Earth	59848-11-04 06:58 G	23580400.62	23580400.79	23580401.01	0.0089	0.0059 *
Venus	59849-01-22 06:29 G	23580479.73	23580479.77	23580479.84	0.0089	0.0086
Venus	59849-09-04 19:26 G	23580705.24	23580705.31	23580705.42	0.0089	0.0081
Earth	59849-11-06 18:29 G	23580768.27	23580768.27	23580768.29	0.0089	0.0089
Moon	59849-11-06 21:07 G	23580768.34	23580768.38	23580768.49	0.0089	0.0085
Jupiter	59850-04-10 12:00 G	23580922.65	23580923.00	23580923.45	0.0089	0.0061
Venus	59850-04-18 08:24 G	23580930.75	23580930.85	23580930.98	0.0089	0.0076
Venus	59850-11-29 21:07 G	23581156.27	23581156.38	23581156.54	0.0089	0.0071
Venus	59851-07-13 10:34 G	23581381.80	23581381.94	23581382.09	0.0089	0.0065
Venus	59852-02-23 23:17 G	23581607.32	23581607.47	23581607.65	0.0089	0.0060
Venus	59852-10-06 12:14 G	23581832.85	23581833.01	23581833.20	0.0089	0.0055
Venus	59853-05-20 01:12 G	23582058.38	23582058.55	23582058.75	0.0089	0.0049
Venus	59853-12-31 14:10 G	23582283.91	23582284.09	23582284.29	0.0089	0.0044
Venus	59854-08-14 03:22 G	23582509.45	23582509.64	23582509.84	0.0089	0.0038
Venus	59855-03-27 16:05 G	23582734.98	23582735.17	23582735.39	0.0089	0.0033
Venus	59855-11-08 05:17 G	23582960.51	23582960.72	23582960.93	0.0089	0.0027
Venus	59856-06-20 18:00 G	23583186.05	23583186.25	23583186.47	0.0089	0.0022

Venus	59857-02-01 06:58 G	23583411.58	23583411.79	23583412.01	0.0089	0.0017
Venus	59857-09-14 20:10 G	23583637.12	23583637.34	23583637.56	0.0089	0.0011
Venus	59858-04-28 09:07 G	23583862.66	23583862.88	23583863.10	0.0089	0.0005
Venus	59858-12-09 22:05 G	23584088.20	23584088.42	23584088.64	0.0089	0.0001
Venus	59859-07-23 11:02 G	23584313.74	23584313.96	23584314.18	0.0089	0.0006
Venus	59860-03-05 00:00 G	23584539.29	23584539.50	23584539.72	0.0089	0.0011
Venus	59860-10-16 12:58 G	23584764.83	23584765.04	23584765.27	0.0089	0.0017
Venus	59861-05-30 02:10 G	23584990.38	23584990.59	23584990.81	0.0089	0.0022
Venus	59862-01-10 14:53 G	23585215.93	23585216.12	23585216.34	0.0089	0.0028
Venus	59862-08-24 04:19 G	23585441.48	23585441.68	23585441.89	0.0089	0.0033
Venus	59863-04-06 17:17 G	23585667.03	23585667.22	23585667.43	0.0089	0.0039
Venus	59863-11-18 06:29 G	23585892.59	23585892.77	23585892.97	0.0089	0.0044
Venus	59864-06-30 19:12 G	23586118.14	23586118.30	23586118.50	0.0089	0.0050
Venus	59865-02-11 08:24 G	23586343.69	23586343.85	23586344.04	0.0089	0.0055
Venus	59865-09-24 21:50 G	23586569.26	23586569.41	23586569.58	0.0089	0.0061
Venus	59866-05-08 10:34 G	23586794.82	23586794.94	23586795.11	0.0089	0.0067
Venus	59866-12-19 23:46 G	23587020.38	23587020.49	23587020.64	0.0089	0.0071
Venus	59867-08-02 12:58 G	23587245.94	23587246.04	23587246.16	0.0089	0.0077
Venus	59868-03-15 01:41 G	23587471.51	23587471.57	23587471.68	0.0089	0.0082
Venus	59868-10-26 14:53 G	23587697.10	23587697.12	23587697.19	0.0089	0.0087
Mars	59880-10-05 03:50 G	23592058.37	23592058.66	23592058.97	0.0090	0.0042
Mercury	59917-04-12 13:26 G	23605396.04	23605396.06	23605396.11	0.0089	0.0087
Mercury	59917-07-09 14:53 G	23605484.07	23605484.12	23605484.20	0.0089	0.0079
Mercury	59917-10-05 16:48 G	23605572.12	23605572.20	23605572.29	0.0089	0.0070
Mercury	59918-01-01 18:14 G	23605660.17	23605660.26	23605660.36	0.0089	0.0062
Mercury	59918-03-30 19:41 G	23605748.22	23605748.32	23605748.43	0.0089	0.0053
Mercury	59918-06-26 21:07 G	23605836.27	23605836.38	23605836.50	0.0089	0.0045
Mercury	59918-09-22 22:34 G	23605924.32	23605924.44	23605924.57	0.0089	0.0038
Mercury	59918-12-20 00:00 G	23606012.38	23606012.50	23606012.64	0.0089	0.0030
Mercury	59919-03-18 01:41 G	23606100.44	23606100.57	23606100.70	0.0089	0.0021

Mercury	59919-06-14 03:07 G	23606188.49	23606188.63	23606188.76	0.0089	0.0013
Mercury	59919-09-10 04:34 G	23606276.55	23606276.69	23606276.82	0.0089	0.0005
Mercury	59919-12-07 06:00 G	23606364.61	23606364.75	23606364.89	0.0089	0.0003
Mercury	59920-03-04 07:26 G	23606452.67	23606452.81	23606452.94	0.0089	0.0011
Mercury	59920-05-31 08:38 G	23606540.74	23606540.86	23606541.00	0.0089	0.0019
Mercury	59920-08-27 10:19 G	23606628.80	23606628.93	23606629.06	0.0089	0.0027
Mercury	59920-11-23 11:46 G	23606716.86	23606716.99	23606717.11	0.0089	0.0034
Mercury	59921-02-19 12:58 G	23606804.93	23606805.04	23606805.16	0.0089	0.0042
Mercury	59921-05-18 14:24 G	23606892.99	23606893.10	23606893.22	0.0089	0.0050
Mercury	59921-08-14 15:36 G	23606981.06	23606981.15	23606981.26	0.0089	0.0059
Mercury	59921-11-10 17:02 G	23607069.13	23607069.21	23607069.31	0.0089	0.0066
Mercury	59922-02-06 18:43 G	23607157.21	23607157.28	23607157.35	0.0089	0.0074
Mercury	59922-05-05 19:55 G	23607245.29	23607245.33	23607245.39	0.0089	0.0081
Mercury	59922-08-01 21:36 G	23607333.40	23607333.40	23607333.40	0.0089	0.0089
Moon	59925-04-23 19:55 G	23608329.26	23608329.33	23608329.43	0.0089	0.0083
Earth	59925-04-23 22:19 G	23608329.35	23608329.43	23608329.55	0.0089	0.0082 *
Earth	59926-04-26 10:48 G	23608696.74	23608696.95	23608697.16	0.0089	0.0051
Moon	59926-04-26 12:29 G	23608696.82	23608697.02	23608697.26	0.0089	0.0052 *
Moon	59927-04-28 21:50 G	23609064.18	23609064.41	23609064.66	0.0089	0.0021
Earth	59927-04-28 22:48 G	23609064.21	23609064.45	23609064.71	0.0089	0.0021 *
Moon	59928-04-30 09:50 G	23609431.66	23609431.91	23609432.19	0.0089	0.0011
Earth	59928-04-30 10:48 G	23609431.70	23609431.95	23609432.21	0.0089	0.0010 *
Earth	59929-05-02 22:34 G	23609799.23	23609799.44	23609799.69	0.0089	0.0041
Moon	59929-05-03 00:14 G	23609799.30	23609799.51	23609799.74	0.0089	0.0041 *
Venus	59929-12-16 12:58 G	23610027.01	23610027.04	23610027.11	0.0089	0.0086
Moon	59930-05-05 07:41 G	23610166.69	23610166.82	23610167.01	0.0089	0.0071
Earth	59930-05-05 10:48 G	23610166.81	23610166.95	23610167.12	0.0089	0.0071 *
Venus	59930-07-30 02:10 G	23610252.52	23610252.59	23610252.70	0.0089	0.0081
Venus	59931-03-12 15:22 G	23610478.05	23610478.14	23610478.28	0.0089	0.0076
Venus	59931-10-24 05:02 G	23610703.58	23610703.71	23610703.84	0.0089	0.0070

Venus	59932-06-05 17:46 G	23610929.11	23610929.24	23610929.40	0.0089	0.0065
Venus	59933-01-17 06:43 G	23611154.64	23611154.78	23611154.96	0.0089	0.0060
Venus	59933-08-30 19:55 G	23611380.17	23611380.33	23611380.52	0.0089	0.0055
Venus	59934-04-13 09:22 G	23611605.71	23611605.89	23611606.08	0.0089	0.0049
Venus	59934-11-24 22:05 G	23611831.25	23611831.42	23611831.63	0.0089	0.0044
Venus	59935-07-08 11:17 G	23612056.78	23612056.97	23612057.18	0.0089	0.0038
Venus	59936-02-19 00:29 G	23612282.33	23612282.52	23612282.74	0.0089	0.0033
Venus	59936-10-01 13:26 G	23612507.87	23612508.06	23612508.29	0.0089	0.0028
Venus	59937-05-15 02:53 G	23612733.41	23612733.62	23612733.83	0.0089	0.0022
Venus	59937-12-26 15:50 G	23612958.95	23612959.16	23612959.38	0.0089	0.0016
Venus	59938-08-09 05:02 G	23613184.49	23613184.71	23613184.93	0.0088	0.0011
Venus	59939-03-22 18:14 G	23613410.04	23613410.26	23613410.48	0.0088	0.0006
Venus	59939-11-03 07:26 G	23613635.59	23613635.81	23613636.03	0.0088	0.0001
Venus	59940-06-15 20:24 G	23613861.13	23613861.35	23613861.57	0.0088	0.0005
Venus	59941-01-27 09:22 G	23614086.67	23614086.89	23614087.11	0.0088	0.0011
Venus	59941-09-09 22:19 G	23614312.22	23614312.43	23614312.65	0.0088	0.0017
Venus	59942-04-23 11:31 G	23614537.77	23614537.98	23614538.20	0.0088	0.0022
Venus	59942-12-05 00:14 G	23614763.31	23614763.51	23614763.73	0.0088	0.0028
Venus	59943-07-18 13:26 G	23614988.86	23614989.06	23614989.27	0.0088	0.0033
Venus	59944-02-29 02:10 G	23615214.41	23615214.59	23615214.81	0.0088	0.0038
Venus	59944-10-11 15:07 G	23615439.95	23615440.13	23615440.34	0.0088	0.0044
Venus	59945-05-25 04:19 G	23615665.50	23615665.68	23615665.87	0.0088	0.0049
Venus	59946-01-05 17:17 G	23615891.05	23615891.22	23615891.40	0.0088	0.0054
Venus	59946-08-19 05:46 G	23616116.60	23616116.74	23616116.92	0.0088	0.0059
Venus	59947-04-01 18:58 G	23616342.15	23616342.29	23616342.46	0.0088	0.0064
Venus	59947-11-13 07:55 G	23616567.71	23616567.83	23616567.98	0.0088	0.0069
Venus	59948-06-25 20:53 G	23616793.26	23616793.37	23616793.50	0.0088	0.0074
Venus	59949-02-06 09:50 G	23617018.82	23617018.91	23617019.01	0.0088	0.0079
Venus	59949-09-19 22:48 G	23617244.40	23617244.45	23617244.51	0.0088	0.0084
Mars	59962-08-15 10:19 G	23621956.65	23621956.93	23621957.22	0.0088	0.0021

# 61ST MILLENNIUM CE

**This is a list of transits visible from Neptune in the 61st millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	60001-03-12 01:26	G	23636045.52	23636045.56	23636045.63	0.0088	0.0084	
Mercury	60001-06-08 04:34	G	23636133.61	23636133.69	23636133.80	0.0088	0.0074	
Mercury	60001-09-04 07:55	G	23636221.71	23636221.83	23636221.96	0.0088	0.0064	
Mercury	60001-12-01 11:02	G	23636309.82	23636309.96	23636310.12	0.0088	0.0053	
Mercury	60002-02-27 14:24	G	23636397.94	23636398.10	23636398.27	0.0088	0.0043	
Mercury	60002-05-26 17:31	G	23636486.06	23636486.23	23636486.41	0.0088	0.0032	
Mercury	60002-08-22 20:53	G	23636574.19	23636574.37	23636574.55	0.0088	0.0022	
Mercury	60002-11-19 00:00	G	23636662.32	23636662.50	23636662.69	0.0088	0.0011	
Mercury	60003-02-15 03:22	G	23636750.45	23636750.64	23636750.83	0.0088	0.0000	
Mercury	60003-05-14 06:29	G	23636838.59	23636838.77	23636838.96	0.0088	0.0010	
Mercury	60003-08-10 09:36	G	23636926.73	23636926.90	23636927.09	0.0088	0.0021	
Mercury	60003-11-06 12:58	G	23637014.87	23637015.04	23637015.22	0.0088	0.0032	
Mercury	60004-02-02 16:19	G	23637103.02	23637103.18	23637103.35	0.0088	0.0042	
Mercury	60004-04-30 19:26	G	23637191.17	23637191.31	23637191.47	0.0088	0.0053	
Mercury	60004-07-27 23:02	G	23637279.33	23637279.46	23637279.59	0.0088	0.0064	
Mercury	60004-10-24 02:10	G	23637367.50	23637367.59	23637367.70	0.0088	0.0075	
Mercury	60005-01-20 05:17	G	23637455.69	23637455.72	23637455.78	0.0088	0.0086	
Moon	60008-10-26 19:41	G	23638831.20	23638831.32	23638831.48	0.0088	0.0073	



Earth	60008-10-26 19:55 G	23638831.23	23638831.33	23638831.49	0.0088	0.0077	*
Moon	60009-10-29 07:41 G	23639198.60	23639198.82	23639199.04	0.0088	0.0049	
Earth	60009-10-29 07:26 G	23639198.61	23639198.81	23639199.05	0.0088	0.0046	*
Earth	60010-10-31 18:58 G	23639566.04	23639566.29	23639566.55	0.0088	0.0016	
Moon	60010-10-31 20:10 G	23639566.11	23639566.34	23639566.60	0.0088	0.0014	*
Moon	60011-11-03 03:36 G	23639933.39	23639933.65	23639933.91	0.0088	0.0010	
Earth	60011-11-03 06:14 G	23639933.52	23639933.76	23639934.03	0.0088	0.0015	*
Earth	60012-11-04 17:02 G	23640301.01	23640301.21	23640301.46	0.0089	0.0045	
Moon	60012-11-04 20:38 G	23640301.15	23640301.36	23640301.58	0.0089	0.0047	*
Venus	60013-04-26 17:46 G	23640474.19	23640474.24	23640474.32	0.0089	0.0084	
Moon	60013-11-07 00:29 G	23640668.40	23640668.52	23640668.70	0.0089	0.0072	
Earth	60013-11-07 04:19 G	23640668.57	23640668.68	23640668.85	0.0089	0.0075	*
Venus	60013-12-08 06:29 G	23640699.69	23640699.77	23640699.89	0.0089	0.0079	
Venus	60014-07-21 19:26 G	23640925.21	23640925.31	23640925.45	0.0089	0.0074	
Venus	60015-03-04 08:10 G	23641150.73	23641150.84	23641151.01	0.0089	0.0069	
Venus	60015-10-15 21:36 G	23641376.25	23641376.40	23641376.56	0.0089	0.0063	
Venus	60016-05-28 10:19 G	23641601.78	23641601.93	23641602.11	0.0089	0.0058	
Jupiter	60016-06-14 13:12 G	23641618.51	23641619.05	23641619.62	0.0089	0.0009	
Venus	60017-01-08 23:17 G	23641827.31	23641827.47	23641827.66	0.0089	0.0053	
Venus	60017-08-22 12:43 G	23642052.84	23642053.03	23642053.21	0.0089	0.0047	
Venus	60018-04-05 01:26 G	23642278.38	23642278.56	23642278.76	0.0089	0.0042	
Venus	60018-11-16 14:10 G	23642503.91	23642504.09	23642504.31	0.0089	0.0037	
Venus	60019-06-30 03:22 G	23642729.44	23642729.64	23642729.85	0.0089	0.0031	
Venus	60020-02-10 16:05 G	23642954.97	23642955.17	23642955.39	0.0089	0.0026	
Venus	60020-09-23 05:31 G	23643180.51	23643180.73	23643180.94	0.0089	0.0020	
Venus	60021-05-06 18:14 G	23643406.05	23643406.26	23643406.48	0.0089	0.0015	
Venus	60021-12-18 07:12 G	23643631.59	23643631.80	23643632.02	0.0089	0.0010	
Venus	60022-07-31 20:24 G	23643857.13	23643857.35	23643857.56	0.0089	0.0004	
Venus	60023-03-14 09:22 G	23644082.67	23644082.89	23644083.11	0.0089	0.0002	
Venus	60023-10-25 22:19 G	23644308.21	23644308.43	23644308.65	0.0089	0.0007	

Venus	60024-06-07 11:02 G	23644533.75	23644533.96	23644534.19	0.0089	0.0013
Venus	60025-01-19 00:00 G	23644759.29	23644759.50	23644759.72	0.0089	0.0018
Venus	60025-09-01 12:58 G	23644984.84	23644985.04	23644985.27	0.0089	0.0024
Venus	60026-04-15 02:10 G	23645210.39	23645210.59	23645210.81	0.0089	0.0029
Venus	60026-11-26 15:22 G	23645435.94	23645436.14	23645436.35	0.0089	0.0034
Venus	60027-07-10 04:05 G	23645661.49	23645661.67	23645661.88	0.0089	0.0040
Venus	60028-02-20 17:17 G	23645887.04	23645887.22	23645887.42	0.0089	0.0046
Venus	60028-10-03 06:14 G	23646112.60	23646112.76	23646112.96	0.0089	0.0052
Venus	60029-05-16 19:41 G	23646338.16	23646338.32	23646338.50	0.0089	0.0056
Venus	60029-12-28 08:53 G	23646563.72	23646563.87	23646564.03	0.0089	0.0062
Venus	60030-08-10 21:36 G	23646789.28	23646789.40	23646789.57	0.0089	0.0067
Venus	60031-03-24 10:48 G	23647014.84	23647014.95	23647015.10	0.0089	0.0073
Venus	60031-11-05 00:14 G	23647240.41	23647240.51	23647240.63	0.0089	0.0078
Venus	60032-06-17 13:26 G	23647465.99	23647466.06	23647466.14	0.0089	0.0083
Venus	60033-01-29 01:55 G	23647691.58	23647691.58	23647691.65	0.0089	0.0089
Mars	60046-04-16 00:58 G	23652516.29	23652516.54	23652516.84	0.0090	0.0052
Mercury	60082-01-07 13:26 G	23665567.01	23665567.06	23665567.12	0.0089	0.0082
Mercury	60082-04-05 14:53 G	23665655.05	23665655.12	23665655.21	0.0089	0.0074
Mercury	60082-07-02 16:19 G	23665743.10	23665743.18	23665743.28	0.0089	0.0066
Mercury	60082-09-28 18:00 G	23665831.15	23665831.25	23665831.36	0.0089	0.0057
Mercury	60082-12-25 19:26 G	23665919.20	23665919.31	23665919.43	0.0089	0.0049
Mercury	60083-03-23 20:53 G	23666007.26	23666007.37	23666007.50	0.0089	0.0041
Mercury	60083-06-19 22:19 G	23666095.31	23666095.43	23666095.57	0.0089	0.0033
Mercury	60083-09-15 23:46 G	23666183.37	23666183.49	23666183.63	0.0089	0.0025
Mercury	60083-12-13 01:26 G	23666271.43	23666271.56	23666271.69	0.0089	0.0017
Mercury	60084-03-10 02:53 G	23666359.49	23666359.62	23666359.76	0.0089	0.0009
Mercury	60084-06-06 04:19 G	23666447.54	23666447.68	23666447.82	0.0089	0.0001
Mercury	60084-09-02 05:46 G	23666535.60	23666535.74	23666535.88	0.0089	0.0007
Mercury	60084-11-29 07:12 G	23666623.67	23666623.80	23666623.93	0.0089	0.0015
Mercury	60085-02-25 08:38 G	23666711.73	23666711.86	23666711.99	0.0089	0.0023

Mercury	60085-05-24 09:50 G	23666799.79	23666799.91	23666800.05	0.0089	0.0031
Mercury	60085-08-20 11:17 G	23666887.86	23666887.97	23666888.10	0.0089	0.0039
Mercury	60085-11-16 12:43 G	23666975.92	23666976.03	23666976.15	0.0089	0.0047
Mercury	60086-02-12 14:10 G	23667063.99	23667064.09	23667064.20	0.0089	0.0055
Mercury	60086-05-11 15:36 G	23667152.06	23667152.15	23667152.25	0.0089	0.0062
Mercury	60086-08-07 16:48 G	23667240.13	23667240.20	23667240.29	0.0089	0.0070
Mercury	60086-11-03 18:14 G	23667328.21	23667328.26	23667328.33	0.0089	0.0078
Mercury	60087-01-30 19:55 G	23667416.29	23667416.33	23667416.36	0.0089	0.0086
Earth	60090-04-25 19:41 G	23668597.16	23668597.32	23668597.51	0.0089	0.0066
Moon	60090-04-25 19:41 G	23668597.18	23668597.32	23668597.48	0.0089	0.0070 *
Moon	60091-04-28 06:43 G	23668964.54	23668964.78	23668965.04	0.0089	0.0031
Earth	60091-04-28 07:26 G	23668964.60	23668964.81	23668965.07	0.0089	0.0036 *
Earth	60092-04-29 19:55 G	23669332.08	23669332.33	23669332.59	0.0089	0.0005
Moon	60092-04-29 22:19 G	23669332.19	23669332.43	23669332.69	0.0089	0.0010 *
Moon	60093-05-02 05:02 G	23669699.47	23669699.71	23669699.97	0.0089	0.0030
Earth	60093-05-02 07:55 G	23669699.60	23669699.83	23669700.09	0.0089	0.0026 *
Venus	60094-03-19 23:46 G	23670021.44	23670021.49	23670021.58	0.0089	0.0084
Earth	60094-05-04 19:41 G	23670067.14	23670067.32	23670067.54	0.0089	0.0057
Moon	60094-05-04 23:17 G	23670067.28	23670067.47	23670067.69	0.0089	0.0052 *
Venus	60094-10-31 12:58 G	23670246.96	23670247.04	23670247.16	0.0089	0.0079
Earth	60095-05-07 07:41 G	23670434.80	23670434.82	23670434.90	0.0089	0.0087
Venus	60095-06-14 02:10 G	23670472.49	23670472.59	23670472.73	0.0089	0.0074
Venus	60096-01-25 15:22 G	23670698.02	23670698.14	23670698.30	0.0089	0.0069
Venus	60096-09-07 04:48 G	23670923.55	23670923.70	23670923.86	0.0089	0.0063
Venus	60097-04-20 17:46 G	23671149.09	23671149.24	23671149.42	0.0089	0.0058
Venus	60097-12-02 06:43 G	23671374.62	23671374.78	23671374.98	0.0089	0.0053
Venus	60098-07-15 20:24 G	23671600.16	23671600.35	23671600.53	0.0089	0.0047
Venus	60099-02-26 09:22 G	23671825.70	23671825.89	23671826.09	0.0089	0.0042
Venus	60099-10-09 22:19 G	23672051.24	23672051.43	23672051.64	0.0089	0.0037
Venus	60100-05-23 11:46 G	23672276.78	23672276.99	23672277.19	0.0089	0.0031

Venus	60101-01-04 00:29 G	23672502.32	23672502.52	23672502.74	0.0089	0.0026
Venus	60101-08-17 13:41 G	23672727.86	23672728.07	23672728.29	0.0089	0.0020
Venus	60102-03-31 02:53 G	23672953.41	23672953.62	23672953.84	0.0089	0.0015
Venus	60102-11-11 16:05 G	23673178.95	23673179.17	23673179.39	0.0089	0.0009
Venus	60103-06-25 05:02 G	23673404.49	23673404.71	23673404.93	0.0088	0.0004
Venus	60104-02-05 18:14 G	23673630.04	23673630.26	23673630.48	0.0088	0.0002
Venus	60104-09-18 07:12 G	23673855.59	23673855.80	23673856.03	0.0088	0.0007
Venus	60105-05-01 20:24 G	23674081.13	23674081.35	23674081.57	0.0088	0.0012
Venus	60105-12-13 09:36 G	23674306.68	23674306.90	23674307.11	0.0088	0.0018
Venus	60106-07-26 22:19 G	23674532.23	23674532.43	23674532.65	0.0088	0.0024
Venus	60107-03-09 11:31 G	23674757.78	23674757.98	23674758.20	0.0088	0.0029
Venus	60107-10-21 00:29 G	23674983.33	23674983.52	23674983.74	0.0088	0.0034
Venus	60108-06-02 13:26 G	23675208.87	23675209.06	23675209.27	0.0088	0.0040
Venus	60109-01-14 02:24 G	23675434.42	23675434.60	23675434.80	0.0088	0.0045
Venus	60109-08-27 15:07 G	23675659.97	23675660.13	23675660.33	0.0088	0.0051
Venus	60110-04-10 04:19 G	23675885.53	23675885.68	23675885.87	0.0088	0.0056
Venus	60110-11-21 17:17 G	23676111.08	23676111.22	23676111.40	0.0088	0.0061
Venus	60111-07-05 06:14 G	23676336.63	23676336.76	23676336.92	0.0088	0.0066
Venus	60112-02-15 19:12 G	23676562.18	23676562.30	23676562.44	0.0088	0.0071
Venus	60112-09-28 08:10 G	23676787.74	23676787.84	23676787.96	0.0088	0.0076
Venus	60113-05-11 21:07 G	23677013.30	23677013.38	23677013.48	0.0088	0.0081
Venus	60113-12-23 10:05 G	23677238.88	23677238.92	23677238.98	0.0088	0.0086
Mars	60126-04-01 02:24 G	23681720.46	23681720.60	23681720.80	0.0088	0.0072
Mars	60128-02-23 16:34 G	23682413.98	23682414.19	23682414.44	0.0088	0.0054
Mercury	60165-12-08 00:14 G	23696216.44	23696216.51	23696216.61	0.0088	0.0079
Mercury	60166-03-06 03:22 G	23696304.54	23696304.64	23696304.77	0.0088	0.0068
Mercury	60166-06-02 06:58 G	23696392.65	23696392.79	23696392.93	0.0088	0.0058
Mercury	60166-08-29 09:50 G	23696480.76	23696480.91	23696481.08	0.0088	0.0047
Mercury	60166-11-25 12:58 G	23696568.88	23696569.04	23696569.22	0.0088	0.0037
Mercury	60167-02-21 16:19 G	23696657.01	23696657.18	23696657.36	0.0088	0.0026

Mercury	60167-05-20 19:26 G	23696745.14	23696745.31	23696745.50	0.0088	0.0016
Mercury	60167-08-16 22:48 G	23696833.27	23696833.45	23696833.64	0.0088	0.0006
Mercury	60167-11-13 02:10 G	23696921.40	23696921.59	23696921.78	0.0088	0.0005
Mercury	60168-02-09 05:17 G	23697009.54	23697009.72	23697009.91	0.0088	0.0016
Mercury	60168-05-07 08:38 G	23697097.68	23697097.86	23697098.04	0.0088	0.0027
Mercury	60168-08-03 11:46 G	23697185.83	23697185.99	23697186.17	0.0088	0.0037
Mercury	60168-10-30 14:53 G	23697273.98	23697274.12	23697274.29	0.0088	0.0048
Mercury	60169-01-26 18:29 G	23697362.13	23697362.27	23697362.41	0.0088	0.0059
Mercury	60169-04-24 21:36 G	23697450.30	23697450.40	23697450.52	0.0088	0.0070
Mercury	60169-07-22 00:43 G	23697538.47	23697538.53	23697538.62	0.0088	0.0081
Earth	60173-10-29 18:14 G	23699099.08	23699099.26	23699099.46	0.0088	0.0060
Moon	60173-10-29 20:10 G	23699099.16	23699099.34	23699099.54	0.0088	0.0058 *
Moon	60174-11-01 02:53 G	23699466.38	23699466.62	23699466.87	0.0088	0.0033
Earth	60174-11-01 05:46 G	23699466.50	23699466.74	23699466.99	0.0088	0.0030 *
Earth	60175-11-03 17:02 G	23699833.96	23699834.21	23699834.47	0.0088	0.0001
Moon	60175-11-03 20:38 G	23699834.11	23699834.36	23699834.62	0.0088	0.0004 *
Moon	60176-11-05 00:58 G	23700201.30	23700201.54	23700201.79	0.0088	0.0028
Earth	60176-11-05 04:19 G	23700201.45	23700201.68	23700201.93	0.0088	0.0031 *
Venus	60176-12-16 16:19 G	23700243.16	23700243.18	23700243.24	0.0088	0.0087
Venus	60177-07-30 05:17 G	23700468.66	23700468.72	23700468.82	0.0089	0.0082
Earth	60177-11-07 15:07 G	23700568.97	23700569.13	23700569.34	0.0089	0.0061
Moon	60177-11-07 18:29 G	23700569.12	23700569.27	23700569.48	0.0089	0.0065 *
Venus	60178-03-12 18:00 G	23700694.17	23700694.25	23700694.38	0.0089	0.0077
Venus	60178-10-24 06:58 G	23700919.68	23700919.79	23700919.94	0.0089	0.0072
Moon	60178-11-10 00:14 G	23700936.50	23700936.51	23700936.56	0.0089	0.0088
Venus	60179-06-06 19:41 G	23701145.20	23701145.32	23701145.49	0.0089	0.0067
Venus	60180-01-18 09:07 G	23701370.72	23701370.88	23701371.04	0.0089	0.0061
Venus	60180-08-30 22:05 G	23701596.26	23701596.42	23701596.60	0.0089	0.0056
Venus	60181-04-13 10:48 G	23701821.79	23701821.95	23701822.15	0.0089	0.0051
Venus	60181-11-24 23:46 G	23702047.32	23702047.49	23702047.69	0.0089	0.0046

Venus	60182-07-08 12:43 G	23702272.85	23702273.03	23702273.24	0.0089	0.0040
Jupiter	60182-08-20 19:26 G	23702316.09	23702316.31	23702316.67	0.0089	0.0076
Venus	60183-02-19 01:41 G	23702498.38	23702498.57	23702498.79	0.0089	0.0035
Venus	60183-10-02 15:07 G	23702723.92	23702724.13	23702724.33	0.0089	0.0029
Venus	60184-05-15 03:50 G	23702949.46	23702949.66	23702949.88	0.0089	0.0024
Venus	60184-12-26 16:48 G	23703174.99	23703175.20	23703175.42	0.0089	0.0019
Venus	60185-08-09 06:00 G	23703400.53	23703400.75	23703400.97	0.0089	0.0013
Venus	60186-03-22 18:58 G	23703626.07	23703626.29	23703626.51	0.0089	0.0007
Venus	60186-11-03 07:55 G	23703851.61	23703851.83	23703852.05	0.0089	0.0002
Venus	60187-06-16 20:53 G	23704077.15	23704077.37	23704077.59	0.0089	0.0004
Venus	60188-01-28 09:36 G	23704302.69	23704302.90	23704303.13	0.0089	0.0009
Venus	60188-09-09 22:48 G	23704528.24	23704528.45	23704528.67	0.0089	0.0014
Venus	60189-04-23 11:31 G	23704753.78	23704753.98	23704754.21	0.0089	0.0020
Venus	60189-12-05 00:43 G	23704979.32	23704979.53	23704979.74	0.0089	0.0025
Venus	60190-07-18 13:41 G	23705204.87	23705205.07	23705205.28	0.0089	0.0030
Venus	60191-03-01 02:24 G	23705430.41	23705430.60	23705430.81	0.0089	0.0036
Venus	60191-10-12 15:36 G	23705655.97	23705656.15	23705656.36	0.0089	0.0041
Venus	60192-05-25 04:19 G	23705881.52	23705881.68	23705881.89	0.0089	0.0048
Venus	60193-01-05 17:31 G	23706107.07	23706107.23	23706107.42	0.0089	0.0052
Venus	60193-08-19 06:43 G	23706332.63	23706332.78	23706332.96	0.0089	0.0058
Venus	60194-04-01 20:10 G	23706558.18	23706558.34	23706558.49	0.0089	0.0063
Venus	60194-11-13 08:53 G	23706783.75	23706783.87	23706784.03	0.0089	0.0068
Venus	60195-06-26 22:05 G	23707009.31	23707009.42	23707009.56	0.0089	0.0073
Venus	60196-02-07 11:17 G	23707234.88	23707234.97	23707235.08	0.0089	0.0078
Venus	60196-09-20 00:29 G	23707460.46	23707460.52	23707460.61	0.0089	0.0084
Venus	60197-05-03 13:41 G	23707686.06	23707686.07	23707686.10	0.0089	0.0089
Saturn	60207-11-26 00:58 G	23711542.93	23711543.54	23711544.27	0.0089	0.0031
Mars	60209-11-29 13:41 G	23712277.75	23712278.07	23712278.42	0.0090	0.0013
Mercury	60246-07-10 11:31 G	23725649.96	23725649.98	23725650.04	0.0089	0.0086
Mercury	60246-10-06 13:12 G	23725737.99	23725738.05	23725738.13	0.0089	0.0077

Mercury	60247-01-02 14:53 G	23725826.04	23725826.12	23725826.21	0.0089	0.0069
Mercury	60247-03-31 16:19 G	23725914.08	23725914.18	23725914.28	0.0089	0.0061
Mercury	60247-06-27 17:46 G	23726002.14	23726002.24	23726002.36	0.0089	0.0053
Mercury	60247-09-23 19:12 G	23726090.19	23726090.30	23726090.43	0.0089	0.0045
Mercury	60247-12-20 20:53 G	23726178.25	23726178.37	23726178.50	0.0089	0.0036
Mercury	60248-03-17 22:19 G	23726266.30	23726266.43	23726266.56	0.0089	0.0028
Mercury	60248-06-13 23:46 G	23726354.36	23726354.49	23726354.63	0.0089	0.0020
Mercury	60248-09-10 01:12 G	23726442.42	23726442.55	23726442.69	0.0089	0.0012
Mercury	60248-12-07 02:38 G	23726530.48	23726530.61	23726530.75	0.0089	0.0005
Mercury	60249-03-05 04:05 G	23726618.54	23726618.67	23726618.81	0.0089	0.0005
Mercury	60249-06-01 05:31 G	23726706.60	23726706.73	23726706.87	0.0089	0.0012
Mercury	60249-08-28 06:58 G	23726794.66	23726794.79	23726794.93	0.0089	0.0020
Mercury	60249-11-24 08:24 G	23726882.73	23726882.85	23726882.98	0.0089	0.0028
Mercury	60250-02-20 09:50 G	23726970.79	23726970.91	23726971.04	0.0089	0.0036
Mercury	60250-05-19 11:17 G	23727058.86	23727058.97	23727059.09	0.0089	0.0044
Mercury	60250-08-15 12:43 G	23727146.92	23727147.03	23727147.14	0.0089	0.0051
Mercury	60250-11-11 14:10 G	23727234.99	23727235.09	23727235.19	0.0089	0.0059
Mercury	60251-02-07 15:22 G	23727323.06	23727323.14	23727323.24	0.0089	0.0067
Mercury	60251-05-06 16:48 G	23727411.14	23727411.20	23727411.28	0.0089	0.0075
Mercury	60251-08-02 18:29 G	23727499.22	23727499.27	23727499.31	0.0089	0.0083
Moon	60254-04-27 03:50 G	23728497.58	23728497.66	23728497.78	0.0089	0.0082
Earth	60254-04-27 05:46 G	23728497.65	23728497.74	23728497.87	0.0089	0.0080 *
Earth	60255-04-29 17:31 G	23728865.04	23728865.23	23728865.47	0.0089	0.0050
Moon	60255-04-29 19:55 G	23728865.14	23728865.33	23728865.56	0.0089	0.0049 *
Moon	60256-05-01 02:24 G	23729232.35	23729232.60	23729232.86	0.0089	0.0021
Earth	60256-05-01 06:00 G	23729232.50	23729232.75	23729233.01	0.0089	0.0019 *
Earth	60257-05-03 17:46 G	23729599.99	23729600.24	23729600.51	0.0089	0.0012
Moon	60257-05-03 21:36 G	23729600.14	23729600.40	23729600.65	0.0089	0.0013 *
Venus	60257-11-09 21:36 G	23729790.38	23729790.40	23729790.46	0.0089	0.0087
Moon	60258-05-06 02:10 G	23729967.38	23729967.59	23729967.83	0.0089	0.0042

Earth	60258-05-06 05:31 G	23729967.53	23729967.73	23729967.98	0.0089	0.0043 *
Venus	60258-06-23 10:48 G	23730015.89	23730015.95	23730016.05	0.0089	0.0082
Venus	60259-02-04 00:00 G	23730241.41	23730241.50	23730241.63	0.0089	0.0077
Earth	60259-05-08 17:31 G	23730335.11	23730335.23	23730335.40	0.0089	0.0073
Moon	60259-05-08 20:24 G	23730335.23	23730335.35	23730335.52	0.0089	0.0074 *
Venus	60259-09-17 13:12 G	23730466.95	23730467.05	23730467.20	0.0089	0.0072
Venus	60260-04-30 02:53 G	23730692.48	23730692.62	23730692.77	0.0089	0.0066
Venus	60260-12-11 15:50 G	23730918.01	23730918.16	23730918.33	0.0089	0.0061
Venus	60261-07-25 05:02 G	23731143.55	23731143.71	23731143.89	0.0089	0.0056
Venus	60262-03-07 18:14 G	23731369.09	23731369.26	23731369.45	0.0089	0.0051
Venus	60262-10-19 07:41 G	23731594.63	23731594.82	23731595.01	0.0089	0.0045
Venus	60263-06-01 20:38 G	23731820.17	23731820.36	23731820.56	0.0089	0.0040
Venus	60264-01-13 09:36 G	23732045.71	23732045.90	23732046.11	0.0089	0.0035
Venus	60264-08-25 22:34 G	23732271.25	23732271.44	23732271.66	0.0089	0.0030
Venus	60265-04-08 12:00 G	23732496.79	23732497.00	23732497.22	0.0089	0.0024
Venus	60265-11-20 00:58 G	23732722.33	23732722.54	23732722.76	0.0089	0.0019
Venus	60266-07-03 14:10 G	23732947.87	23732948.09	23732948.31	0.0089	0.0013
Venus	60267-02-14 03:07 G	23733173.41	23733173.63	23733173.85	0.0089	0.0008
Venus	60267-09-27 16:19 G	23733398.96	23733399.18	23733399.40	0.0089	0.0002
Venus	60268-05-10 05:17 G	23733624.50	23733624.72	23733624.94	0.0088	0.0003
Venus	60268-12-21 18:14 G	23733850.04	23733850.26	23733850.48	0.0088	0.0009
Venus	60269-08-04 07:26 G	23734075.59	23734075.81	23734076.03	0.0088	0.0014
Venus	60270-03-17 20:24 G	23734301.14	23734301.35	23734301.57	0.0088	0.0019
Venus	60270-10-29 09:36 G	23734526.69	23734526.90	23734527.11	0.0088	0.0025
Venus	60271-06-11 22:19 G	23734752.24	23734752.43	23734752.65	0.0088	0.0030
Venus	60272-01-23 11:17 G	23734977.78	23734977.97	23734978.19	0.0088	0.0036
Venus	60272-09-05 00:29 G	23735203.34	23735203.52	23735203.73	0.0088	0.0041
Venus	60273-04-18 13:55 G	23735428.89	23735429.08	23735429.27	0.0088	0.0046
Venus	60273-11-30 02:24 G	23735654.44	23735654.60	23735654.80	0.0088	0.0052
Venus	60274-07-13 15:36 G	23735879.99	23735880.15	23735880.33	0.0088	0.0056



Venus	60275-02-24 04:34 G	23736105.55	23736105.69	23736105.86	0.0088	0.0062
Venus	60275-10-07 17:31 G	23736331.10	23736331.23	23736331.39	0.0088	0.0067
Venus	60276-05-20 06:43 G	23736556.66	23736556.78	23736556.91	0.0088	0.0072
Venus	60276-12-31 19:41 G	23736782.22	23736782.32	23736782.43	0.0088	0.0077
Venus	60277-08-14 08:24 G	23737007.78	23737007.85	23737007.94	0.0088	0.0082
Venus	60278-03-27 21:22 G	23737233.36	23737233.39	23737233.44	0.0088	0.0087
Mars	60291-10-10 09:36 G	23742177.61	23742177.90	23742178.20	0.0088	0.0005
Mercury	60330-06-09 20:10 G	23756299.29	23756299.34	23756299.42	0.0088	0.0082
Mercury	60330-09-05 23:17 G	23756387.38	23756387.47	23756387.59	0.0088	0.0072
Mercury	60330-12-03 02:53 G	23756475.49	23756475.62	23756475.75	0.0088	0.0062
Mercury	60331-03-01 05:46 G	23756563.60	23756563.74	23756563.90	0.0088	0.0051
Mercury	60331-05-28 08:53 G	23756651.72	23756651.87	23756652.04	0.0088	0.0041
Mercury	60331-08-24 12:14 G	23756739.84	23756740.01	23756740.19	0.0088	0.0031
Mercury	60331-11-20 15:22 G	23756827.96	23756828.14	23756828.33	0.0088	0.0020
Mercury	60332-02-16 18:43 G	23756916.09	23756916.28	23756916.46	0.0088	0.0010
Mercury	60332-05-14 21:50 G	23757004.23	23757004.41	23757004.60	0.0088	0.0001
Mercury	60332-08-11 01:12 G	23757092.36	23757092.55	23757092.73	0.0088	0.0012
Mercury	60332-11-07 04:19 G	23757180.50	23757180.68	23757180.86	0.0088	0.0022
Mercury	60333-02-03 07:26 G	23757268.64	23757268.81	23757268.99	0.0088	0.0033
Mercury	60333-05-02 10:48 G	23757356.79	23757356.95	23757357.12	0.0088	0.0043
Mercury	60333-07-29 13:55 G	23757444.94	23757445.08	23757445.24	0.0088	0.0054
Mercury	60333-10-25 17:02 G	23757533.10	23757533.21	23757533.35	0.0088	0.0065
Mercury	60334-01-21 20:38 G	23757621.27	23757621.36	23757621.46	0.0088	0.0076
Mercury	60334-04-19 23:46 G	23757709.47	23757709.49	23757709.54	0.0088	0.0087
Moon	60337-10-31 01:12 G	23758999.41	23758999.55	23758999.74	0.0088	0.0070
Earth	60337-10-31 04:48 G	23758999.57	23758999.70	23758999.85	0.0088	0.0074 *
Earth	60338-11-02 16:05 G	23759366.96	23759367.17	23759367.41	0.0088	0.0044
Moon	60338-11-02 19:26 G	23759367.12	23759367.31	23759367.55	0.0088	0.0048 *
Moon	60339-11-05 00:14 G	23759734.26	23759734.51	23759734.77	0.0088	0.0009
Earth	60339-11-05 03:50 G	23759734.41	23759734.66	23759734.92	0.0088	0.0013 *

Earth	60340-11-06 14:53 G	23760101.87	23760102.12	23760102.38	0.0088	0.0017
Moon	60340-11-06 17:31 G	23760101.98	23760102.23	23760102.50	0.0088	0.0014 *
Venus	60341-03-22 03:50 G	23760237.62	23760237.66	23760237.75	0.0088	0.0085
Venus	60341-11-02 16:48 G	23760463.13	23760463.20	23760463.32	0.0089	0.0080
Moon	60341-11-08 23:46 G	23760469.30	23760469.49	23760469.71	0.0089	0.0051
Earth	60341-11-09 02:10 G	23760469.38	23760469.59	23760469.82	0.0089	0.0047 *
Venus	60342-06-16 05:31 G	23760688.64	23760688.73	23760688.87	0.0089	0.0075
Earth	60342-11-11 13:26 G	23760836.95	23760837.06	23760837.20	0.0089	0.0077
Moon	60342-11-11 14:24 G	23760836.96	23760837.10	23760837.26	0.0089	0.0073 *
Venus	60343-01-27 18:29 G	23760914.15	23760914.27	23760914.42	0.0089	0.0070
Venus	60343-09-10 07:26 G	23761139.68	23761139.81	23761139.98	0.0089	0.0065
Venus	60344-04-22 20:38 G	23761365.20	23761365.36	23761365.53	0.0089	0.0059
Venus	60344-12-04 09:22 G	23761590.73	23761590.89	23761591.07	0.0089	0.0054
Venus	60345-07-17 22:19 G	23761816.26	23761816.43	23761816.62	0.0089	0.0049
Venus	60346-02-28 11:02 G	23762041.79	23762041.96	23762042.17	0.0089	0.0044
Venus	60346-10-12 00:14 G	23762267.32	23762267.51	23762267.72	0.0089	0.0038
Venus	60347-05-25 13:12 G	23762492.85	23762493.05	23762493.26	0.0089	0.0033
Venus	60348-01-06 02:10 G	23762718.39	23762718.59	23762718.81	0.0089	0.0028
Venus	60348-08-18 15:22 G	23762943.93	23762944.14	23762944.36	0.0089	0.0022
Venus	60349-04-01 04:19 G	23763169.47	23763169.68	23763169.90	0.0089	0.0017
Venus	60349-11-12 17:17 G	23763395.01	23763395.22	23763395.44	0.0089	0.0011
Venus	60350-06-26 06:14 G	23763620.55	23763620.76	23763620.98	0.0089	0.0006
Venus	60351-02-06 19:26 G	23763846.09	23763846.31	23763846.53	0.0089	0.0001
Venus	60351-09-20 08:24 G	23764071.63	23764071.85	23764072.07	0.0089	0.0005
Venus	60352-05-02 21:22 G	23764297.18	23764297.39	23764297.61	0.0089	0.0011
Venus	60352-12-14 10:19 G	23764522.72	23764522.93	23764523.15	0.0089	0.0016
Venus	60353-07-27 23:17 G	23764748.26	23764748.47	23764748.69	0.0089	0.0021
Venus	60354-03-10 12:00 G	23764973.81	23764974.00	23764974.23	0.0089	0.0027
Venus	60354-10-22 01:12 G	23765199.36	23765199.55	23765199.77	0.0089	0.0032
Venus	60355-06-04 14:24 G	23765424.90	23765425.10	23765425.30	0.0089	0.0037

Venus	60356-01-16 03:07 G	23765650.45	23765650.63	23765650.84	0.0089	0.0043
Venus	60356-08-28 16:05 G	23765876.00	23765876.17	23765876.37	0.0089	0.0049
Venus	60357-04-11 05:17 G	23766101.56	23766101.72	23766101.91	0.0089	0.0053
Venus	60357-11-22 18:43 G	23766327.11	23766327.28	23766327.44	0.0089	0.0059
Venus	60358-07-06 07:12 G	23766552.67	23766552.80	23766552.97	0.0089	0.0064
Venus	60359-02-16 20:24 G	23766778.23	23766778.35	23766778.50	0.0089	0.0069
Venus	60359-09-30 09:36 G	23767003.80	23767003.90	23767004.04	0.0089	0.0074
Venus	60360-05-12 22:48 G	23767229.37	23767229.45	23767229.56	0.0089	0.0080
Venus	60360-12-24 12:00 G	23767454.94	23767455.00	23767455.08	0.0089	0.0085
Mars	60373-07-14 03:36 G	23772039.48	23772039.65	23772039.85	0.0090	0.0075
Mars	60375-06-10 11:02 G	23772735.87	23772735.96	23772736.13	0.0090	0.0083
Mercury	60411-01-09 10:05 G	23785732.91	23785732.92	23785732.94	0.0089	0.0089
Mercury	60411-04-07 11:31 G	23785820.93	23785820.98	23785821.05	0.0089	0.0081
Mercury	60411-07-04 12:58 G	23785908.97	23785909.04	23785909.13	0.0089	0.0073
Mercury	60411-09-30 14:24 G	23785997.02	23785997.10	23785997.21	0.0089	0.0065
Mercury	60411-12-27 16:05 G	23786085.07	23786085.17	23786085.28	0.0089	0.0056
Mercury	60412-03-24 17:31 G	23786173.12	23786173.23	23786173.35	0.0089	0.0048
Mercury	60412-06-20 18:58 G	23786261.18	23786261.29	23786261.42	0.0089	0.0040
Mercury	60412-09-16 20:38 G	23786349.24	23786349.36	23786349.49	0.0089	0.0032
Mercury	60412-12-13 22:05 G	23786437.29	23786437.42	23786437.56	0.0089	0.0024
Mercury	60413-03-11 23:31 G	23786525.35	23786525.48	23786525.62	0.0089	0.0016
Mercury	60413-06-08 00:58 G	23786613.41	23786613.54	23786613.68	0.0089	0.0009
Mercury	60413-09-04 02:38 G	23786701.47	23786701.61	23786701.74	0.0089	0.0002
Mercury	60413-12-01 04:05 G	23786789.53	23786789.67	23786789.80	0.0089	0.0009
Mercury	60414-02-27 05:31 G	23786877.60	23786877.73	23786877.86	0.0089	0.0016
Mercury	60414-05-26 06:58 G	23786965.66	23786965.79	23786965.92	0.0089	0.0024
Mercury	60414-08-22 08:24 G	23787053.72	23787053.85	23787053.97	0.0089	0.0032
Mercury	60414-11-18 09:36 G	23787141.79	23787141.90	23787142.03	0.0089	0.0041
Mercury	60415-02-14 11:02 G	23787229.85	23787229.96	23787230.08	0.0089	0.0048
Mercury	60415-05-13 12:29 G	23787317.92	23787318.02	23787318.13	0.0089	0.0056

Mercury	60415-08-09 13:41 G	23787405.99	23787406.07	23787406.18	0.0089	0.0064
Mercury	60415-11-05 15:22 G	23787494.07	23787494.14	23787494.22	0.0089	0.0072
Mercury	60416-02-01 16:48 G	23787582.14	23787582.20	23787582.26	0.0089	0.0079
Mercury	60416-04-29 18:00 G	23787670.24	23787670.25	23787670.29	0.0089	0.0087
Moon	60419-04-30 00:14 G	23788765.37	23788765.51	23788765.71	0.0089	0.0068
Earth	60419-04-30 04:19 G	23788765.50	23788765.68	23788765.86	0.0089	0.0063 *
Earth	60420-05-01 15:50 G	23789132.94	23789133.16	23789133.41	0.0089	0.0033
Moon	60420-05-01 19:55 G	23789133.09	23789133.33	23789133.58	0.0089	0.0028 *
Moon	60421-05-04 01:12 G	23789500.30	23789500.55	23789500.80	0.0089	0.0006
Earth	60421-05-04 04:05 G	23789500.42	23789500.67	23789500.93	0.0089	0.0002 *
Venus	60422-02-12 08:53 G	23789784.82	23789784.87	23789784.95	0.0089	0.0085
Earth	60422-05-06 15:50 G	23789867.92	23789868.16	23789868.41	0.0089	0.0028
Moon	60422-05-06 18:14 G	23789868.03	23789868.26	23789868.52	0.0089	0.0033 *
Venus	60422-09-25 22:05 G	23790010.34	23790010.42	23790010.53	0.0089	0.0080
Moon	60423-05-09 02:10 G	23790235.41	23790235.59	23790235.81	0.0089	0.0055
Earth	60423-05-09 03:36 G	23790235.48	23790235.65	23790235.86	0.0089	0.0059 *
Venus	60423-05-09 11:02 G	23790235.87	23790235.96	23790236.10	0.0089	0.0075
Venus	60423-12-21 00:14 G	23790461.40	23790461.51	23790461.67	0.0089	0.0070
Venus	60424-08-02 13:26 G	23790686.93	23790687.06	23790687.24	0.0089	0.0065
Jupiter	60425-03-12 18:00 G	23790909.10	23790909.25	23790909.47	0.0089	0.0083
Venus	60425-03-16 03:07 G	23790912.48	23790912.63	23790912.81	0.0089	0.0059
Venus	60425-10-27 16:19 G	23791138.02	23791138.18	23791138.37	0.0089	0.0054
Venus	60426-06-10 05:17 G	23791363.56	23791363.72	23791363.92	0.0089	0.0049
Venus	60427-01-21 18:58 G	23791589.10	23791589.29	23791589.48	0.0089	0.0043
Venus	60427-09-04 07:55 G	23791814.64	23791814.83	23791815.04	0.0089	0.0038
Venus	60428-04-16 21:07 G	23792040.18	23792040.38	23792040.59	0.0089	0.0033
Venus	60428-11-28 10:05 G	23792265.72	23792265.92	23792266.14	0.0089	0.0028
Venus	60429-07-11 23:31 G	23792491.27	23792491.48	23792491.69	0.0089	0.0022
Venus	60430-02-22 12:29 G	23792716.81	23792717.02	23792717.25	0.0089	0.0017
Venus	60430-10-06 01:41 G	23792942.35	23792942.57	23792942.79	0.0089	0.0011

Venus	60431-05-19 14:53 G	23793167.89	23793168.12	23793168.34	0.0089	0.0006
Venus	60431-12-31 03:50 G	23793393.44	23793393.66	23793393.88	0.0089	0.0001
Venus	60432-08-12 16:48 G	23793618.98	23793619.20	23793619.42	0.0089	0.0005
Venus	60433-03-26 06:00 G	23793844.53	23793844.75	23793844.97	0.0088	0.0010
Venus	60433-11-06 18:58 G	23794070.08	23794070.29	23794070.51	0.0088	0.0016
Venus	60434-06-20 07:55 G	23794295.62	23794295.83	23794296.05	0.0088	0.0021
Venus	60435-01-31 20:38 G	23794521.16	23794521.36	23794521.59	0.0088	0.0027
Venus	60435-09-14 09:50 G	23794746.71	23794746.91	23794747.13	0.0088	0.0032
Venus	60436-04-26 23:02 G	23794972.27	23794972.46	23794972.67	0.0088	0.0037
Venus	60436-12-08 11:46 G	23795197.82	23795197.99	23795198.20	0.0088	0.0043
Venus	60437-07-22 00:58 G	23795423.37	23795423.54	23795423.74	0.0088	0.0047
Venus	60438-03-04 14:10 G	23795648.92	23795649.09	23795649.27	0.0088	0.0053
Venus	60438-10-16 03:07 G	23795874.47	23795874.63	23795874.81	0.0088	0.0058
Venus	60439-05-29 16:19 G	23796100.03	23796100.18	23796100.34	0.0088	0.0063
Venus	60440-01-10 04:48 G	23796325.58	23796325.70	23796325.86	0.0088	0.0068
Venus	60440-08-22 17:46 G	23796551.14	23796551.24	23796551.39	0.0088	0.0073
Venus	60441-04-05 06:43 G	23796776.71	23796776.78	23796776.91	0.0088	0.0079
Venus	60441-11-16 20:24 G	23797002.27	23797002.35	23797002.42	0.0088	0.0083
Venus	60442-06-30 09:07 G	23797227.86	23797227.88	23797227.91	0.0088	0.0088
Mars	60455-05-27 01:55 G	23801941.35	23801941.58	23801941.85	0.0088	0.0045
Mars	60457-04-19 16:34 G	23802635.10	23802635.19	23802635.32	0.0088	0.0081
Mercury	60494-12-08 16:05 G	23816382.15	23816382.17	23816382.23	0.0088	0.0086
Mercury	60495-03-06 19:41 G	23816470.23	23816470.32	23816470.41	0.0088	0.0076
Mercury	60495-06-02 22:34 G	23816558.33	23816558.44	23816558.57	0.0088	0.0065
Mercury	60495-08-30 01:41 G	23816646.44	23816646.57	23816646.72	0.0088	0.0055
Mercury	60495-11-26 04:48 G	23816734.55	23816734.70	23816734.87	0.0088	0.0045
Mercury	60496-02-22 08:10 G	23816822.67	23816822.84	23816823.01	0.0088	0.0034
Mercury	60496-05-20 11:17 G	23816910.79	23816910.97	23816911.15	0.0088	0.0024
Mercury	60496-08-16 14:38 G	23816998.92	23816999.11	23816999.29	0.0088	0.0014
Mercury	60496-11-12 17:46 G	23817087.05	23817087.24	23817087.43	0.0088	0.0003

Mercury	60497-02-08 20:53 G	23817175.19	23817175.37	23817175.56	0.0088	0.0008
Mercury	60497-05-08 00:00 G	23817263.32	23817263.50	23817263.69	0.0088	0.0018
Mercury	60497-08-04 03:22 G	23817351.47	23817351.64	23817351.82	0.0088	0.0029
Mercury	60497-10-31 06:29 G	23817439.61	23817439.77	23817439.95	0.0088	0.0039
Mercury	60498-01-27 09:36 G	23817527.76	23817527.90	23817528.07	0.0088	0.0050
Mercury	60498-04-25 12:58 G	23817615.91	23817616.04	23817616.19	0.0088	0.0061
Mercury	60498-07-22 16:05 G	23817704.08	23817704.17	23817704.30	0.0088	0.0072
Mercury	60498-10-18 19:12 G	23817792.26	23817792.30	23817792.39	0.0088	0.0083
Earth	60501-10-31 15:07 G	23818900.12	23818900.13	23818900.20	0.0088	0.0088
Moon	60501-10-31 19:12 G	23818900.30	23818900.30	23818900.32	0.0088	0.0088
Moon	60502-11-02 23:31 G	23819267.31	23819267.48	23819267.71	0.0088	0.0056
Earth	60502-11-03 02:53 G	23819267.45	23819267.62	23819267.84	0.0088	0.0058 *
Earth	60503-11-05 14:24 G	23819634.87	23819635.10	23819635.36	0.0088	0.0027
Moon	60503-11-05 17:17 G	23819634.98	23819635.22	23819635.48	0.0088	0.0029 *
Moon	60504-11-07 00:58 G	23820002.29	23820002.54	23820002.79	0.0088	0.0005
Earth	60504-11-07 02:10 G	23820002.34	23820002.59	23820002.85	0.0088	0.0003 *
Venus	60504-11-11 03:22 G	23820006.61	23820006.64	23820006.69	0.0088	0.0087
Venus	60505-06-24 16:19 G	23820232.10	23820232.18	23820232.26	0.0088	0.0082
Earth	60505-11-09 13:12 G	23820369.83	23820370.05	23820370.31	0.0088	0.0034
Moon	60505-11-09 13:55 G	23820369.84	23820370.08	23820370.35	0.0088	0.0031 *
Venus	60506-02-05 04:34 G	23820457.61	23820457.69	23820457.82	0.0089	0.0078
Venus	60506-09-18 18:00 G	23820683.13	23820683.25	23820683.38	0.0089	0.0072
Earth	60506-11-12 00:29 G	23820737.36	23820737.52	23820737.72	0.0089	0.0064
Moon	60506-11-12 01:26 G	23820737.41	23820737.56	23820737.74	0.0089	0.0066 *
Venus	60507-05-02 06:58 G	23820908.65	23820908.79	23820908.93	0.0089	0.0067
Venus	60507-12-13 19:41 G	23821134.17	23821134.32	23821134.48	0.0089	0.0062
Venus	60508-07-26 08:24 G	23821359.69	23821359.85	23821360.03	0.0089	0.0057
Venus	60509-03-08 21:07 G	23821585.22	23821585.38	23821585.57	0.0089	0.0052
Venus	60509-10-20 10:05 G	23821810.75	23821810.92	23821811.12	0.0089	0.0047
Venus	60510-06-02 22:48 G	23822036.27	23822036.45	23822036.66	0.0089	0.0042

Venus	60511-01-14 12:00 G	23822261.80	23822262.00	23822262.20	0.0089	0.0036
Venus	60511-08-28 00:58 G	23822487.34	23822487.54	23822487.75	0.0089	0.0031
Venus	60512-04-09 13:55 G	23822712.88	23822713.08	23822713.30	0.0089	0.0026
Venus	60512-11-21 02:53 G	23822938.41	23822938.62	23822938.84	0.0089	0.0020
Venus	60513-07-04 15:50 G	23823163.95	23823164.16	23823164.38	0.0089	0.0015
Venus	60514-02-15 04:48 G	23823389.48	23823389.70	23823389.92	0.0089	0.0010
Venus	60514-09-28 18:00 G	23823615.03	23823615.25	23823615.47	0.0089	0.0004
Venus	60515-05-12 06:58 G	23823840.57	23823840.79	23823841.01	0.0089	0.0001
Venus	60515-12-23 19:55 G	23824066.11	23824066.33	23824066.55	0.0089	0.0007
Venus	60516-08-05 08:53 G	23824291.66	23824291.87	23824292.09	0.0089	0.0012
Venus	60517-03-18 21:50 G	23824517.20	23824517.41	23824517.63	0.0089	0.0018
Venus	60517-10-30 10:48 G	23824742.75	23824742.95	23824743.17	0.0089	0.0023
Venus	60518-06-12 23:46 G	23824968.29	23824968.49	23824968.71	0.0089	0.0028
Venus	60519-01-24 12:58 G	23825193.84	23825194.04	23825194.24	0.0089	0.0033
Venus	60519-09-07 01:41 G	23825419.39	23825419.57	23825419.78	0.0089	0.0039
Venus	60520-04-19 14:53 G	23825644.94	23825645.12	23825645.32	0.0089	0.0044
Venus	60520-12-01 03:50 G	23825870.49	23825870.66	23825870.85	0.0089	0.0049
Venus	60521-07-14 17:02 G	23826096.04	23826096.21	23826096.38	0.0089	0.0054
Venus	60522-02-25 05:31 G	23826321.59	23826321.73	23826321.91	0.0089	0.0060
Venus	60522-10-08 18:43 G	23826547.15	23826547.28	23826547.45	0.0089	0.0065
Venus	60523-05-22 07:55 G	23826772.71	23826772.83	23826772.98	0.0089	0.0070
Venus	60524-01-02 20:53 G	23826998.27	23826998.37	23826998.50	0.0089	0.0076
Venus	60524-08-15 10:05 G	23827223.84	23827223.92	23827224.03	0.0089	0.0080
Venus	60525-03-28 23:17 G	23827449.42	23827449.47	23827449.54	0.0089	0.0085
Mars	60539-01-23 02:24 G	23832497.28	23832497.60	23832497.94	0.0090	0.0020
Mercury	60575-10-07 10:05 G	23845903.88	23845903.92	23845903.97	0.0089	0.0084
Mercury	60576-01-03 11:31 G	23845991.91	23845991.98	23845992.06	0.0089	0.0075
Mercury	60576-03-31 12:58 G	23846079.96	23846080.04	23846080.14	0.0089	0.0067
Mercury	60576-06-27 14:24 G	23846168.01	23846168.10	23846168.21	0.0089	0.0059
Mercury	60576-09-23 15:50 G	23846256.06	23846256.16	23846256.28	0.0089	0.0052

Mercury	60576-12-20 17:31 G	23846344.12	23846344.23	23846344.36	0.0089	0.0043
Mercury	60577-03-18 18:58 G	23846432.17	23846432.29	23846432.42	0.0089	0.0035
Mercury	60577-06-14 20:24 G	23846520.23	23846520.35	23846520.49	0.0089	0.0027
Mercury	60577-09-10 22:05 G	23846608.29	23846608.42	23846608.55	0.0089	0.0019
Mercury	60577-12-07 23:31 G	23846696.35	23846696.48	23846696.62	0.0089	0.0011
Mercury	60578-03-06 00:58 G	23846784.41	23846784.54	23846784.68	0.0089	0.0003
Mercury	60578-06-02 02:24 G	23846872.47	23846872.60	23846872.74	0.0089	0.0006
Mercury	60578-08-29 03:50 G	23846960.53	23846960.66	23846960.80	0.0089	0.0014
Mercury	60578-11-25 05:17 G	23847048.59	23847048.72	23847048.86	0.0089	0.0022
Mercury	60579-02-21 06:43 G	23847136.66	23847136.78	23847136.91	0.0089	0.0029
Mercury	60579-05-20 08:10 G	23847224.72	23847224.84	23847224.97	0.0089	0.0037
Mercury	60579-08-16 09:36 G	23847312.79	23847312.90	23847313.02	0.0089	0.0045
Mercury	60579-11-12 10:48 G	23847400.86	23847400.95	23847401.07	0.0089	0.0054
Mercury	60580-02-08 12:14 G	23847488.93	23847489.01	23847489.12	0.0089	0.0061
Mercury	60580-05-06 13:55 G	23847577.00	23847577.08	23847577.17	0.0089	0.0069
Mercury	60580-08-02 15:22 G	23847665.07	23847665.14	23847665.21	0.0089	0.0076
Mercury	60580-10-29 16:34 G	23847753.16	23847753.19	23847753.24	0.0089	0.0084
Earth	60583-04-30 14:24 G	23848666.00	23848666.10	23848666.25	0.0089	0.0077
Moon	60583-04-30 18:14 G	23848666.15	23848666.26	23848666.38	0.0089	0.0079 *
Moon	60584-05-01 23:46 G	23849033.27	23849033.49	23849033.71	0.0089	0.0044
Earth	60584-05-02 02:24 G	23849033.40	23849033.60	23849033.84	0.0089	0.0047 *
Earth	60585-05-04 14:24 G	23849400.85	23849401.10	23849401.36	0.0089	0.0016
Moon	60585-05-04 16:05 G	23849400.92	23849401.17	23849401.44	0.0089	0.0019 *
Venus	60585-10-04 06:43 G	23849553.78	23849553.78	23849553.84	0.0089	0.0088
Moon	60586-05-07 01:12 G	23849768.32	23849768.55	23849768.81	0.0089	0.0017
Earth	60586-05-07 02:24 G	23849768.35	23849768.60	23849768.86	0.0089	0.0014 *
Venus	60586-05-17 19:55 G	23849779.28	23849779.33	23849779.43	0.0089	0.0083
Venus	60586-12-29 09:07 G	23850004.80	23850004.88	23850005.01	0.0089	0.0078
Moon	60587-05-09 13:41 G	23850135.85	23850136.07	23850136.32	0.0089	0.0043
Earth	60587-05-09 13:55 G	23850135.87	23850136.08	23850136.32	0.0089	0.0045 *



Venus	60587-08-11 22:19 G	23850230.33	23850230.43	23850230.58	0.0089	0.0073
Venus	60588-03-24 11:31 G	23850455.86	23850455.98	23850456.15	0.0089	0.0068
Earth	60588-05-11 01:26 G	23850503.45	23850503.56	23850503.72	0.0089	0.0076
Moon	60588-05-11 03:36 G	23850503.55	23850503.65	23850503.78	0.0089	0.0078 *
Venus	60588-11-05 01:12 G	23850681.40	23850681.55	23850681.71	0.0089	0.0062
Venus	60589-06-18 14:24 G	23850906.93	23850907.10	23850907.27	0.0089	0.0057
Venus	60590-01-30 03:22 G	23851132.48	23851132.64	23851132.83	0.0089	0.0052
Venus	60590-09-12 16:34 G	23851358.02	23851358.19	23851358.39	0.0089	0.0047
Venus	60591-04-26 05:46 G	23851583.56	23851583.74	23851583.95	0.0089	0.0042
Jupiter	60591-05-11 04:48 G	23851598.20	23851598.70	23851599.25	0.0089	0.0018
Venus	60591-12-07 19:12 G	23851809.10	23851809.30	23851809.50	0.0089	0.0036
Venus	60592-07-20 08:10 G	23852034.64	23852034.84	23852035.06	0.0089	0.0031
Venus	60593-03-02 21:22 G	23852260.19	23852260.39	23852260.62	0.0089	0.0026
Venus	60593-10-14 10:48 G	23852485.74	23852485.95	23852486.17	0.0089	0.0020
Venus	60594-05-27 23:46 G	23852711.28	23852711.49	23852711.71	0.0089	0.0015
Venus	60595-01-08 12:58 G	23852936.82	23852937.04	23852937.26	0.0089	0.0009
Venus	60595-08-22 01:55 G	23853162.37	23853162.58	23853162.81	0.0089	0.0005
Venus	60596-04-03 15:22 G	23853387.92	23853388.14	23853388.36	0.0089	0.0002
Venus	60596-11-15 04:19 G	23853613.46	23853613.68	23853613.90	0.0089	0.0007
Venus	60597-06-28 17:17 G	23853839.00	23853839.22	23853839.44	0.0089	0.0012
Venus	60598-02-09 06:14 G	23854064.55	23854064.76	23854064.98	0.0088	0.0017
Venus	60598-09-22 19:12 G	23854290.09	23854290.30	23854290.52	0.0088	0.0023
Venus	60599-05-06 08:24 G	23854515.64	23854515.85	23854516.06	0.0088	0.0028
Venus	60599-12-17 21:07 G	23854741.19	23854741.38	23854741.60	0.0088	0.0033
Venus	60600-07-31 10:05 G	23854966.74	23854966.92	23854967.14	0.0088	0.0039
Venus	60601-03-13 23:17 G	23855192.29	23855192.47	23855192.68	0.0088	0.0044
Venus	60601-10-25 12:29 G	23855417.84	23855418.02	23855418.21	0.0088	0.0049
Venus	60602-06-08 01:26 G	23855643.39	23855643.56	23855643.74	0.0088	0.0054
Venus	60603-01-19 14:10 G	23855868.95	23855869.09	23855869.27	0.0088	0.0059
Venus	60603-09-02 03:07 G	23856094.50	23856094.63	23856094.80	0.0088	0.0064

Venus	60604-04-14 16:19 G	23856320.07	23856320.18	23856320.34	0.0088	0.0069
Venus	60604-11-26 05:17 G	23856545.63	23856545.72	23856545.86	0.0088	0.0075
Venus	60605-07-09 18:14 G	23856771.19	23856771.26	23856771.38	0.0088	0.0079
Venus	60606-02-20 07:12 G	23856996.76	23856996.80	23856996.89	0.0088	0.0084
Mars	60620-12-05 09:36 G	23862398.64	23862398.90	23862399.19	0.0088	0.0032
Mercury	60659-09-06 15:22 G	23876553.07	23876553.14	23876553.23	0.0088	0.0080
Mercury	60659-12-03 18:29 G	23876641.17	23876641.27	23876641.39	0.0088	0.0069
Mercury	60660-02-29 21:36 G	23876729.27	23876729.40	23876729.55	0.0088	0.0059
Mercury	60660-05-28 00:58 G	23876817.39	23876817.54	23876817.69	0.0088	0.0049
Mercury	60660-08-24 04:05 G	23876905.51	23876905.67	23876905.84	0.0088	0.0038
Mercury	60660-11-20 06:58 G	23876993.63	23876993.79	23876993.98	0.0088	0.0029
Mercury	60661-02-16 10:19 G	23877081.75	23877081.93	23877082.12	0.0088	0.0018
Mercury	60661-05-15 13:41 G	23877169.88	23877170.07	23877170.25	0.0088	0.0007
Mercury	60661-08-11 16:48 G	23877258.01	23877258.20	23877258.39	0.0088	0.0003
Mercury	60661-11-07 19:55 G	23877346.15	23877346.33	23877346.52	0.0088	0.0014
Mercury	60662-02-03 23:02 G	23877434.29	23877434.46	23877434.65	0.0088	0.0025
Mercury	60662-05-03 02:10 G	23877522.43	23877522.59	23877522.77	0.0088	0.0035
Mercury	60662-07-30 05:31 G	23877610.58	23877610.73	23877610.90	0.0088	0.0046
Mercury	60662-10-26 08:38 G	23877698.73	23877698.86	23877699.01	0.0088	0.0056
Mercury	60663-01-22 11:46 G	23877786.89	23877786.99	23877787.13	0.0088	0.0067
Mercury	60663-04-20 15:22 G	23877875.06	23877875.14	23877875.23	0.0088	0.0078
Mercury	60663-07-17 18:43 G	23877963.28	23877963.28	23877963.28	0.0088	0.0088
Earth	60666-11-03 13:26 G	23879167.92	23879168.06	23879168.22	0.0088	0.0071
Moon	60666-11-03 15:36 G	23879167.99	23879168.15	23879168.34	0.0088	0.0067 *
Moon	60667-11-05 23:31 G	23879535.29	23879535.48	23879535.71	0.0088	0.0046
Earth	60667-11-06 00:58 G	23879535.32	23879535.54	23879535.78	0.0088	0.0041 *
Moon	60668-11-07 12:14 G	23879902.75	23879903.01	23879903.28	0.0088	0.0006
Earth	60668-11-07 12:43 G	23879902.78	23879903.03	23879903.29	0.0088	0.0011 *
Venus	60669-02-13 14:53 G	23880001.07	23880001.12	23880001.18	0.0088	0.0085
Venus	60669-09-27 03:50 G	23880226.57	23880226.66	23880226.76	0.0088	0.0080

Earth	60669-11-10 00:14 G	23880270.26	23880270.51	23880270.76	0.0088	0.0020
Moon	60669-11-10 01:26 G	23880270.32	23880270.56	23880270.81	0.0088	0.0016 *
Venus	60670-05-10 16:48 G	23880452.09	23880452.20	23880452.32	0.0088	0.0075
Moon	60670-11-12 08:53 G	23880637.68	23880637.87	23880638.10	0.0088	0.0055
Earth	60670-11-12 11:31 G	23880637.78	23880637.98	23880638.20	0.0088	0.0050 *
Venus	60670-12-22 05:31 G	23880677.60	23880677.73	23880677.87	0.0088	0.0070
Venus	60671-08-04 18:29 G	23880903.13	23880903.27	23880903.43	0.0089	0.0065
Earth	60671-11-14 23:02 G	23881005.35	23881005.46	23881005.57	0.0089	0.0080
Moon	60671-11-15 01:55 G	23881005.47	23881005.58	23881005.73	0.0089	0.0076 *
Venus	60672-03-17 07:26 G	23881128.65	23881128.81	23881128.98	0.0089	0.0060
Venus	60672-10-28 20:10 G	23881354.18	23881354.34	23881354.52	0.0089	0.0055
Venus	60673-06-11 08:53 G	23881579.70	23881579.87	23881580.06	0.0089	0.0050
Venus	60674-01-22 21:36 G	23881805.23	23881805.40	23881805.61	0.0089	0.0045
Venus	60674-09-05 10:48 G	23882030.77	23882030.95	23882031.16	0.0089	0.0040
Venus	60675-04-19 00:00 G	23882256.30	23882256.50	23882256.70	0.0089	0.0034
Venus	60675-11-30 12:43 G	23882481.83	23882482.03	23882482.24	0.0089	0.0029
Venus	60676-07-13 01:26 G	23882707.36	23882707.56	23882707.78	0.0089	0.0024
Venus	60677-02-23 14:24 G	23882932.89	23882933.10	23882933.32	0.0089	0.0019
Venus	60677-10-07 03:36 G	23883158.43	23883158.65	23883158.87	0.0089	0.0013
Venus	60678-05-20 16:34 G	23883383.97	23883384.19	23883384.41	0.0089	0.0008
Venus	60679-01-01 05:31 G	23883609.51	23883609.73	23883609.95	0.0089	0.0002
Venus	60679-08-14 18:29 G	23883835.05	23883835.27	23883835.49	0.0089	0.0003
Venus	60680-03-27 07:26 G	23884060.60	23884060.81	23884061.03	0.0089	0.0009
Venus	60680-11-07 20:24 G	23884286.14	23884286.35	23884286.58	0.0089	0.0014
Venus	60681-06-21 09:36 G	23884511.69	23884511.90	23884512.11	0.0089	0.0019
Venus	60682-02-01 22:34 G	23884737.23	23884737.44	23884737.65	0.0089	0.0024
Venus	60682-09-15 11:31 G	23884962.79	23884962.98	23884963.20	0.0089	0.0030
Venus	60683-04-29 00:43 G	23885188.33	23885188.53	23885188.74	0.0089	0.0035
Venus	60683-12-10 13:41 G	23885413.88	23885414.07	23885414.27	0.0089	0.0040
Venus	60684-07-23 02:24 G	23885639.43	23885639.60	23885639.81	0.0089	0.0046

Venus	60685-03-05 15:22 G	23885864.98	23885865.14	23885865.34	0.0089	0.0051
Venus	60685-10-17 04:34 G	23886090.54	23886090.69	23886090.88	0.0089	0.0056
Venus	60686-05-30 17:46 G	23886316.09	23886316.24	23886316.41	0.0089	0.0061
Venus	60687-01-11 06:43 G	23886541.64	23886541.78	23886541.93	0.0089	0.0066
Venus	60687-08-24 19:41 G	23886767.20	23886767.32	23886767.46	0.0089	0.0072
Venus	60688-04-06 08:53 G	23886992.77	23886992.87	23886992.99	0.0089	0.0077
Venus	60688-11-17 22:05 G	23887218.34	23887218.42	23887218.51	0.0089	0.0082
Venus	60689-07-01 11:02 G	23887443.92	23887443.96	23887444.01	0.0089	0.0087
Mars	60702-09-07 16:19 G	23892258.90	23892259.18	23892259.49	0.0090	0.0044
Mercury	60740-04-08 08:10 G	23905986.82	23905986.84	23905986.88	0.0089	0.0087
Mercury	60740-07-05 09:36 G	23906074.85	23906074.90	23906074.98	0.0089	0.0079
Mercury	60740-10-01 11:31 G	23906162.90	23906162.98	23906163.06	0.0089	0.0071
Mercury	60740-12-28 12:58 G	23906250.94	23906251.04	23906251.14	0.0089	0.0062
Mercury	60741-03-26 14:24 G	23906339.00	23906339.10	23906339.21	0.0089	0.0054
Mercury	60741-06-22 15:50 G	23906427.05	23906427.16	23906427.28	0.0089	0.0046
Mercury	60741-09-18 17:17 G	23906515.10	23906515.22	23906515.35	0.0089	0.0039
Mercury	60741-12-15 18:58 G	23906603.16	23906603.29	23906603.42	0.0089	0.0030
Mercury	60742-03-13 20:24 G	23906691.22	23906691.35	23906691.49	0.0089	0.0022
Mercury	60742-06-09 21:50 G	23906779.28	23906779.41	23906779.55	0.0089	0.0014
Mercury	60742-09-05 23:31 G	23906867.34	23906867.48	23906867.61	0.0089	0.0007
Mercury	60742-12-03 00:58 G	23906955.40	23906955.54	23906955.67	0.0089	0.0003
Mercury	60743-03-01 02:24 G	23907043.46	23907043.60	23907043.73	0.0089	0.0010
Mercury	60743-05-28 03:36 G	23907131.52	23907131.65	23907131.79	0.0089	0.0019
Mercury	60743-08-24 05:02 G	23907219.59	23907219.71	23907219.85	0.0089	0.0026
Mercury	60743-11-20 06:29 G	23907307.65	23907307.77	23907307.90	0.0089	0.0034
Mercury	60744-02-16 07:55 G	23907395.72	23907395.83	23907395.96	0.0089	0.0042
Mercury	60744-05-14 09:22 G	23907483.79	23907483.89	23907484.01	0.0089	0.0050
Mercury	60744-08-10 10:34 G	23907571.85	23907571.94	23907572.06	0.0089	0.0059
Mercury	60744-11-06 12:14 G	23907659.93	23907660.01	23907660.11	0.0089	0.0066
Mercury	60745-02-02 13:41 G	23907748.00	23907748.07	23907748.15	0.0089	0.0073

Mercury	60745-05-01 14:53 G	23907836.08	23907836.12	23907836.19	0.0089	0.0082
Mercury	60745-07-28 16:34 G	23907924.19	23907924.19	23907924.20	0.0089	0.0089
Moon	60747-05-01 22:48 G	23908566.44	23908566.45	23908566.50	0.0089	0.0088
Earth	60748-05-03 12:58 G	23908933.86	23908934.04	23908934.24	0.0089	0.0060
Moon	60748-05-03 14:24 G	23908933.94	23908934.10	23908934.31	0.0089	0.0064 *
Earth	60749-05-06 00:58 G	23909301.31	23909301.54	23909301.79	0.0089	0.0030
Moon	60749-05-06 00:58 G	23909301.31	23909301.54	23909301.79	0.0089	0.0027 *
Venus	60750-01-07 18:14 G	23909548.23	23909548.26	23909548.34	0.0089	0.0086
Moon	60750-05-08 11:46 G	23909668.73	23909668.99	23909669.26	0.0089	0.0003
Earth	60750-05-08 12:58 G	23909668.79	23909669.04	23909669.30	0.0089	0.0002 *
Venus	60750-08-21 07:26 G	23909773.74	23909773.81	23909773.93	0.0089	0.0081
Venus	60751-04-03 20:38 G	23909999.27	23909999.36	23909999.50	0.0089	0.0076
Earth	60751-05-11 00:43 G	23910036.29	23910036.53	23910036.78	0.0089	0.0031
Moon	60751-05-11 02:38 G	23910036.38	23910036.61	23910036.84	0.0089	0.0035 *
Venus	60751-11-15 10:19 G	23910224.80	23910224.93	23910225.07	0.0089	0.0070
Moon	60752-05-12 09:07 G	23910403.70	23910403.88	23910404.09	0.0089	0.0058
Earth	60752-05-12 12:14 G	23910403.85	23910404.01	23910404.22	0.0089	0.0062 *
Venus	60752-06-27 23:31 G	23910450.33	23910450.48	23910450.63	0.0089	0.0065
Venus	60753-02-08 12:29 G	23910675.87	23910676.02	23910676.19	0.0089	0.0060
Venus	60753-09-22 01:41 G	23910901.41	23910901.57	23910901.75	0.0089	0.0055
Venus	60754-05-05 14:53 G	23911126.95	23911127.12	23911127.31	0.0089	0.0050
Venus	60754-12-17 03:50 G	23911352.49	23911352.66	23911352.87	0.0089	0.0045
Venus	60755-07-30 17:02 G	23911578.03	23911578.21	23911578.42	0.0089	0.0040
Venus	60756-03-12 06:43 G	23911803.58	23911803.78	23911803.98	0.0089	0.0034
Venus	60756-10-23 19:41 G	23912029.12	23912029.32	23912029.54	0.0089	0.0029
Venus	60757-06-06 08:53 G	23912254.66	23912254.87	23912255.09	0.0089	0.0024
Jupiter	60757-07-08 09:36 G	23912286.47	23912286.90	23912287.40	0.0089	0.0045
Venus	60758-01-17 21:50 G	23912480.21	23912480.41	23912480.64	0.0089	0.0019
Venus	60758-08-31 11:17 G	23912705.75	23912705.97	23912706.19	0.0089	0.0013
Venus	60759-04-14 00:29 G	23912931.30	23912931.52	23912931.74	0.0089	0.0008

Venus	60759-11-25 13:41 G	23913156.85	23913157.07	23913157.29	0.0089	0.0002
Venus	60760-07-08 02:38 G	23913382.39	23913382.61	23913382.83	0.0089	0.0003
Venus	60761-02-18 15:50 G	23913607.94	23913608.16	23913608.38	0.0089	0.0008
Venus	60761-10-02 04:48 G	23913833.49	23913833.70	23913833.92	0.0089	0.0014
Venus	60762-05-15 17:46 G	23914059.03	23914059.24	23914059.46	0.0089	0.0019
Venus	60762-12-27 06:43 G	23914284.58	23914284.78	23914285.00	0.0088	0.0024
Venus	60763-08-09 19:41 G	23914510.12	23914510.32	23914510.54	0.0088	0.0030
Venus	60764-03-22 08:53 G	23914735.68	23914735.87	23914736.08	0.0088	0.0035
Venus	60764-11-02 21:50 G	23914961.22	23914961.41	23914961.62	0.0088	0.0040
Venus	60765-06-16 11:02 G	23915186.77	23915186.96	23915187.15	0.0088	0.0045
Venus	60766-01-27 23:31 G	23915412.32	23915412.48	23915412.68	0.0088	0.0050
Venus	60766-09-10 12:29 G	23915637.87	23915638.02	23915638.21	0.0088	0.0056
Venus	60767-04-24 01:41 G	23915863.43	23915863.57	23915863.75	0.0088	0.0061
Venus	60767-12-05 14:38 G	23916088.98	23916089.11	23916089.28	0.0088	0.0066
Venus	60768-07-18 03:36 G	23916314.54	23916314.65	23916314.80	0.0088	0.0071
Venus	60769-02-28 16:34 G	23916540.10	23916540.19	23916540.33	0.0088	0.0076
Venus	60769-10-12 05:31 G	23916765.66	23916765.73	23916765.84	0.0088	0.0081
Venus	60770-05-25 18:29 G	23916991.24	23916991.27	23916991.35	0.0088	0.0086
Mars	60784-07-22 02:10 G	23922162.30	23922162.59	23922162.88	0.0088	0.0018
Mercury	60824-03-07 11:17 G	23936635.93	23936635.97	23936636.04	0.0088	0.0083
Mercury	60824-06-03 14:24 G	23936724.01	23936724.10	23936724.22	0.0088	0.0073
Mercury	60824-08-30 17:46 G	23936812.12	23936812.24	23936812.37	0.0088	0.0063
Mercury	60824-11-26 20:53 G	23936900.23	23936900.37	23936900.52	0.0088	0.0052
Mercury	60825-02-22 23:46 G	23936988.34	23936988.49	23936988.67	0.0088	0.0043
Mercury	60825-05-22 02:53 G	23937076.46	23937076.62	23937076.81	0.0088	0.0032
Mercury	60825-08-18 06:14 G	23937164.59	23937164.76	23937164.95	0.0088	0.0022
Mercury	60825-11-14 09:36 G	23937252.71	23937252.90	23937253.08	0.0088	0.0011
Mercury	60826-02-10 12:43 G	23937340.85	23937341.03	23937341.22	0.0088	0.0001
Mercury	60826-05-09 15:50 G	23937428.98	23937429.16	23937429.35	0.0088	0.0010
Mercury	60826-08-05 19:12 G	23937517.12	23937517.30	23937517.48	0.0088	0.0021

Mercury	60826-11-01 22:05 G	23937605.26	23937605.42	23937605.61	0.0088	0.0032
Mercury	60827-01-29 01:26 G	23937693.40	23937693.56	23937693.73	0.0088	0.0042
Mercury	60827-04-27 04:34 G	23937781.55	23937781.69	23937781.85	0.0088	0.0052
Mercury	60827-07-24 07:41 G	23937869.70	23937869.82	23937869.97	0.0088	0.0063
Mercury	60827-10-20 11:02 G	23937957.87	23937957.96	23937958.07	0.0088	0.0074
Mercury	60828-01-16 14:10 G	23938046.05	23938046.09	23938046.16	0.0088	0.0084
Moon	60830-11-04 00:14 G	23939068.45	23939068.51	23939068.58	0.0088	0.0085
Earth	60830-11-04 00:14 G	23939068.46	23939068.51	23939068.60	0.0088	0.0085 *
Moon	60831-11-06 11:17 G	23939435.77	23939435.97	23939436.20	0.0088	0.0054
Earth	60831-11-06 11:46 G	23939435.80	23939435.99	23939436.21	0.0088	0.0055 *
Venus	60832-10-05 13:26 G	23939770.05	23939770.06	23939770.11	0.0088	0.0088
Earth	60832-11-07 23:17 G	23939803.23	23939803.47	23939803.73	0.0088	0.0024
Moon	60832-11-08 01:41 G	23939803.33	23939803.57	23939803.81	0.0088	0.0025 *
Venus	60833-05-19 02:10 G	23939995.54	23939995.59	23939995.69	0.0088	0.0083
Moon	60833-11-10 07:55 G	23940170.58	23940170.83	23940171.10	0.0088	0.0007
Earth	60833-11-10 11:02 G	23940170.70	23940170.96	23940171.22	0.0088	0.0006 *
Venus	60833-12-30 15:07 G	23940221.04	23940221.13	23940221.25	0.0088	0.0078
Venus	60834-08-13 04:19 G	23940446.57	23940446.68	23940446.81	0.0088	0.0073
Earth	60834-11-12 21:50 G	23940538.20	23940538.41	23940538.67	0.0088	0.0037
Moon	60834-11-13 01:26 G	23940538.34	23940538.56	23940538.81	0.0088	0.0035 *
Venus	60835-03-26 17:17 G	23940672.09	23940672.22	23940672.37	0.0088	0.0068
Venus	60835-11-07 06:00 G	23940897.61	23940897.75	23940897.92	0.0089	0.0063
Moon	60835-11-15 06:00 G	23940905.59	23940905.75	23940905.93	0.0089	0.0067
Earth	60835-11-15 09:22 G	23940905.75	23940905.89	23940906.09	0.0089	0.0067 *
Venus	60836-06-19 18:43 G	23941123.13	23941123.28	23941123.46	0.0089	0.0058
Venus	60837-01-31 07:41 G	23941348.66	23941348.82	23941349.01	0.0089	0.0053
Venus	60837-09-13 20:38 G	23941574.19	23941574.36	23941574.56	0.0089	0.0048
Venus	60838-04-27 09:36 G	23941799.72	23941799.90	23941800.10	0.0089	0.0043
Venus	60838-12-08 22:19 G	23942025.25	23942025.43	23942025.65	0.0089	0.0038
Venus	60839-07-22 11:31 G	23942250.78	23942250.98	23942251.19	0.0089	0.0032

Venus	60840-03-04 00:14 G	23942476.31	23942476.51	23942476.73	0.0089	0.0027
Venus	60840-10-15 13:12 G	23942701.84	23942702.05	23942702.27	0.0089	0.0022
Venus	60841-05-29 01:55 G	23942927.38	23942927.58	23942927.81	0.0089	0.0017
Venus	60842-01-09 15:07 G	23943152.91	23943153.13	23943153.35	0.0089	0.0011
Venus	60842-08-23 04:05 G	23943378.45	23943378.67	23943378.89	0.0089	0.0006
Venus	60843-04-05 17:02 G	23943603.99	23943604.21	23943604.43	0.0089	0.0001
Venus	60843-11-17 06:00 G	23943829.53	23943829.75	23943829.97	0.0089	0.0005
Venus	60844-06-29 18:58 G	23944055.07	23944055.29	23944055.51	0.0089	0.0010
Venus	60845-02-10 07:55 G	23944280.61	23944280.83	23944281.04	0.0089	0.0015
Venus	60845-09-23 20:53 G	23944506.16	23944506.37	23944506.59	0.0089	0.0021
Venus	60846-05-07 09:50 G	23944731.71	23944731.91	23944732.13	0.0089	0.0026
Venus	60846-12-18 22:48 G	23944957.26	23944957.45	23944957.67	0.0089	0.0031
Venus	60847-08-01 12:00 G	23945182.80	23945183.00	23945183.20	0.0089	0.0036
Venus	60848-03-14 00:43 G	23945408.35	23945408.53	23945408.74	0.0089	0.0042
Venus	60848-10-25 13:55 G	23945633.91	23945634.08	23945634.28	0.0089	0.0047
Venus	60849-06-08 03:07 G	23945859.46	23945859.63	23945859.82	0.0089	0.0052
Venus	60850-01-19 16:05 G	23946085.01	23946085.17	23946085.35	0.0089	0.0057
Venus	60850-09-02 05:17 G	23946310.57	23946310.72	23946310.88	0.0089	0.0063
Venus	60851-04-15 18:29 G	23946536.13	23946536.27	23946536.41	0.0089	0.0068
Venus	60851-11-27 06:58 G	23946761.69	23946761.79	23946761.94	0.0089	0.0073
Venus	60852-07-09 19:55 G	23946987.25	23946987.33	23946987.46	0.0089	0.0078
Venus	60853-02-20 09:36 G	23947212.82	23947212.90	23947212.98	0.0089	0.0083
Venus	60853-10-03 22:34 G	23947438.41	23947438.44	23947438.49	0.0089	0.0088
Mars	60868-03-17 14:24 G	23952716.84	23952717.10	23952717.39	0.0090	0.0052
Mercury	60905-01-04 07:55 G	23966157.80	23966157.83	23966157.90	0.0089	0.0083
Mercury	60905-04-02 09:50 G	23966245.84	23966245.91	23966245.99	0.0089	0.0074
Mercury	60905-06-29 11:17 G	23966333.88	23966333.97	23966334.07	0.0089	0.0066
Mercury	60905-09-25 12:43 G	23966421.93	23966422.03	23966422.14	0.0089	0.0058
Mercury	60905-12-22 14:10 G	23966509.99	23966510.09	23966510.21	0.0089	0.0050
Mercury	60906-03-20 15:50 G	23966598.04	23966598.16	23966598.28	0.0089	0.0041



Mercury	60906-06-16 17:17 G	23966686.10	23966686.22	23966686.35	0.0089	0.0033
Mercury	60906-09-12 18:43 G	23966774.15	23966774.28	23966774.42	0.0089	0.0025
Mercury	60906-12-09 20:24 G	23966862.21	23966862.35	23966862.48	0.0089	0.0017
Mercury	60907-03-07 21:50 G	23966950.27	23966950.41	23966950.55	0.0089	0.0009
Mercury	60907-06-03 23:17 G	23967038.33	23967038.47	23967038.61	0.0089	0.0001
Mercury	60907-08-31 00:43 G	23967126.39	23967126.53	23967126.67	0.0089	0.0007
Mercury	60907-11-27 02:10 G	23967214.46	23967214.59	23967214.73	0.0089	0.0015
Mercury	60908-02-23 03:36 G	23967302.52	23967302.65	23967302.78	0.0089	0.0023
Mercury	60908-05-21 04:48 G	23967390.58	23967390.70	23967390.84	0.0089	0.0032
Mercury	60908-08-17 06:29 G	23967478.65	23967478.77	23967478.89	0.0089	0.0039
Mercury	60908-11-13 07:55 G	23967566.72	23967566.83	23967566.95	0.0089	0.0047
Mercury	60909-02-09 09:22 G	23967654.78	23967654.89	23967655.00	0.0089	0.0054
Mercury	60909-05-08 10:34 G	23967742.85	23967742.94	23967743.05	0.0089	0.0063
Mercury	60909-08-04 12:00 G	23967830.93	23967831.00	23967831.09	0.0089	0.0070
Mercury	60909-10-31 13:26 G	23967919.01	23967919.06	23967919.13	0.0089	0.0078
Mercury	60910-01-27 15:07 G	23968007.10	23968007.13	23968007.16	0.0089	0.0086
Earth	60912-05-03 23:17 G	23968834.33	23968834.47	23968834.61	0.0089	0.0074
Moon	60912-05-03 23:02 G	23968834.36	23968834.46	23968834.60	0.0089	0.0078 *
Moon	60913-05-06 09:22 G	23969201.66	23969201.89	23969202.14	0.0089	0.0040
Earth	60913-05-06 11:02 G	23969201.75	23969201.96	23969202.20	0.0089	0.0044 *
Venus	60913-08-29 16:34 G	23969317.17	23969317.19	23969317.22	0.0089	0.0088
Venus	60914-04-12 05:46 G	23969542.68	23969542.74	23969542.83	0.0089	0.0083
Earth	60914-05-08 23:02 G	23969569.21	23969569.46	23969569.72	0.0089	0.0013
Moon	60914-05-09 01:41 G	23969569.33	23969569.57	23969569.82	0.0089	0.0017 *
Venus	60914-11-23 18:58 G	23969768.20	23969768.29	23969768.40	0.0089	0.0078
Moon	60915-05-11 07:41 G	23969936.57	23969936.82	23969937.08	0.0089	0.0021
Earth	60915-05-11 11:02 G	23969936.71	23969936.96	23969937.21	0.0089	0.0017 *
Venus	60915-07-07 08:10 G	23969993.73	23969993.84	23969993.97	0.0089	0.0073
Venus	60916-02-17 21:36 G	23970219.26	23970219.40	23970219.54	0.0089	0.0068
Earth	60916-05-12 22:19 G	23970304.23	23970304.43	23970304.66	0.0089	0.0048

Moon	60916-05-13 01:55 G	23970304.38	23970304.58	23970304.83	0.0089	0.0045 *
Venus	60916-09-30 10:34 G	23970444.80	23970444.94	23970445.11	0.0089	0.0063
Venus	60917-05-13 23:46 G	23970670.33	23970670.49	23970670.66	0.0089	0.0058
Moon	60917-05-15 06:58 G	23970671.72	23970671.79	23970671.91	0.0089	0.0082
Earth	60917-05-15 10:34 G	23970671.83	23970671.94	23970672.07	0.0089	0.0078 *
Venus	60917-12-25 12:43 G	23970895.87	23970896.03	23970896.22	0.0089	0.0053
Venus	60918-08-08 01:55 G	23971121.41	23971121.58	23971121.78	0.0089	0.0048
Venus	60919-03-21 15:07 G	23971346.95	23971347.13	23971347.34	0.0089	0.0043
Venus	60919-11-02 04:19 G	23971572.49	23971572.68	23971572.89	0.0089	0.0038
Venus	60920-06-14 17:46 G	23971798.03	23971798.24	23971798.44	0.0089	0.0032
Venus	60921-01-26 06:43 G	23972023.58	23972023.78	23972024.00	0.0089	0.0027
Venus	60921-09-08 19:55 G	23972249.12	23972249.33	23972249.55	0.0089	0.0022
Venus	60922-04-22 09:07 G	23972474.67	23972474.88	23972475.10	0.0089	0.0016
Venus	60922-12-03 22:19 G	23972700.21	23972700.43	23972700.65	0.0089	0.0011
Venus	60923-07-17 11:31 G	23972925.76	23972925.98	23972926.20	0.0089	0.0006
Venus	60924-02-28 00:43 G	23973151.31	23973151.53	23973151.75	0.0089	0.0001
Venus	60924-10-10 13:55 G	23973376.86	23973377.08	23973377.30	0.0089	0.0005
Venus	60925-05-24 02:53 G	23973602.41	23973602.62	23973602.85	0.0089	0.0010
Venus	60926-01-04 15:50 G	23973827.95	23973828.16	23973828.39	0.0089	0.0016
Venus	60926-08-18 05:02 G	23974053.50	23974053.71	23974053.93	0.0088	0.0021
Venus	60927-03-31 18:29 G	23974279.06	23974279.27	23974279.48	0.0088	0.0026
Venus	60927-11-12 07:12 G	23974504.61	23974504.80	23974505.02	0.0088	0.0031
Venus	60928-06-24 20:10 G	23974730.15	23974730.34	23974730.55	0.0088	0.0037
Venus	60929-02-05 09:07 G	23974955.70	23974955.88	23974956.09	0.0088	0.0042
Venus	60929-09-18 22:19 G	23975181.25	23975181.43	23975181.62	0.0088	0.0047
Venus	60930-05-02 11:17 G	23975406.80	23975406.97	23975407.16	0.0088	0.0052
Venus	60930-12-14 00:14 G	23975632.36	23975632.51	23975632.69	0.0088	0.0057
Venus	60931-07-27 13:12 G	23975857.91	23975858.05	23975858.22	0.0088	0.0062
Venus	60932-03-09 02:24 G	23976083.46	23976083.60	23976083.75	0.0088	0.0067
Venus	60932-10-20 15:22 G	23976309.02	23976309.14	23976309.28	0.0088	0.0072

Venus	60933-06-03 04:05 G	23976534.58	23976534.67	23976534.80	0.0088	0.0077
Venus	60934-01-14 17:02 G	23976760.14	23976760.21	23976760.31	0.0088	0.0082
Venus	60934-08-28 06:00 G	23976985.72	23976985.75	23976985.81	0.0088	0.0086
Mars	60948-03-07 15:36 G	23981925.99	23981926.15	23981926.35	0.0088	0.0069
Mars	60950-01-30 08:24 G	23982619.65	23982619.85	23982620.09	0.0088	0.0059
Mercury	60988-09-06 07:12 G	23996718.79	23996718.80	23996718.83	0.0088	0.0087
Mercury	60988-12-03 10:19 G	23996806.85	23996806.93	23996807.03	0.0088	0.0077
Mercury	60989-03-01 13:12 G	23996894.95	23996895.05	23996895.19	0.0088	0.0067
Mercury	60989-05-28 16:19 G	23996983.06	23996983.18	23996983.34	0.0088	0.0057
Mercury	60989-08-24 19:41 G	23997071.17	23997071.32	23997071.48	0.0088	0.0047
Mercury	60989-11-20 22:48 G	23997159.29	23997159.45	23997159.63	0.0088	0.0036
Mercury	60990-02-17 01:55 G	23997247.41	23997247.58	23997247.77	0.0088	0.0026
Mercury	60990-05-16 05:17 G	23997335.54	23997335.72	23997335.90	0.0088	0.0015
Mercury	60990-08-12 08:24 G	23997423.67	23997423.85	23997424.04	0.0088	0.0005
Mercury	60990-11-08 11:31 G	23997511.80	23997511.98	23997512.17	0.0088	0.0006
Mercury	60991-02-04 14:38 G	23997599.94	23997600.11	23997600.30	0.0088	0.0017
Mercury	60991-05-03 18:00 G	23997688.07	23997688.25	23997688.43	0.0088	0.0027
Mercury	60991-07-30 21:07 G	23997776.22	23997776.38	23997776.55	0.0088	0.0037
Mercury	60991-10-27 00:00 G	23997864.36	23997864.50	23997864.68	0.0088	0.0049
Mercury	60992-01-23 03:36 G	23997952.52	23997952.65	23997952.79	0.0088	0.0058
Mercury	60992-04-20 06:29 G	23998040.67	23998040.77	23998040.90	0.0088	0.0070
Mercury	60992-07-17 10:05 G	23998128.85	23998128.92	23998129.00	0.0088	0.0080
Earth	60995-11-06 22:05 G	23999336.28	23999336.42	23999336.61	0.0088	0.0068
Moon	60995-11-07 00:29 G	23999336.36	23999336.52	23999336.70	0.0088	0.0064 *
Moon	60996-11-08 06:43 G	23999703.55	23999703.78	23999704.01	0.0088	0.0043
Earth	60996-11-08 09:36 G	23999703.69	23999703.90	23999704.15	0.0088	0.0039 *
Venus	60997-01-08 00:43 G	23999764.50	23999764.53	23999764.61	0.0088	0.0086
Venus	60997-08-21 13:55 G	23999990.01	23999990.08	23999990.18	0.0088	0.0081
Earth	60997-11-10 21:07 G	24000071.13	24000071.38	24000071.65	0.0088	0.0009
Moon	60997-11-11 00:58 G	24000071.28	24000071.54	24000071.79	0.0088	0.0003 *

Venus	60998-04-04 02:53 G	24000215.52	24000215.62	24000215.74	0.0088	0.0076
Moon	60998-11-13 05:17 G	24000438.48	24000438.72	24000438.98	0.0088	0.0018
Earth	60998-11-13 08:38 G	24000438.62	24000438.86	24000439.12	0.0088	0.0023 *
Venus	60998-11-15 15:36 G	24000441.03	24000441.15	24000441.30	0.0088	0.0071
Venus	60999-06-29 04:34 G	24000666.55	24000666.69	24000666.85	0.0088	0.0066
Earth	60999-11-15 19:55 G	24000806.14	24000806.33	24000806.56	0.0088	0.0053
Moon	60999-11-15 23:02 G	24000806.29	24000806.46	24000806.68	0.0088	0.0058 *
Venus	61000-02-09 17:31 G	24000892.08	24000892.23	24000892.40	0.0088	0.0061
Venus	61000-09-23 06:29 G	24001117.61	24001117.77	24001117.95	0.0088	0.0056
Moon	61000-11-18 05:31 G	24001173.64	24001173.73	24001173.87	0.0089	0.0079
Earth	61000-11-18 07:26 G	24001173.74	24001173.81	24001173.92	0.0089	0.0083 *

# 62ND MILLENNIUM CE

**This is a list of transits visible from Neptune in the 62nd millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	61001-05-06 19:12 G	24001343.14	24001343.30	24001343.50	0.0089	0.0051		
Venus	61001-12-18 08:10 G	24001568.67	24001568.84	24001569.04	0.0089	0.0046		
Venus	61002-07-31 21:07 G	24001794.20	24001794.38	24001794.59	0.0089	0.0041		
Venus	61003-03-14 10:05 G	24002019.73	24002019.92	24002020.13	0.0089	0.0035		
Venus	61003-10-25 23:17 G	24002245.26	24002245.47	24002245.68	0.0089	0.0030		
Venus	61004-06-07 12:00 G	24002470.80	24002471.00	24002471.22	0.0089	0.0025		
Venus	61005-01-19 00:58 G	24002696.33	24002696.54	24002696.76	0.0089	0.0020		

Venus	61005-09-01 13:55 G	24002921.87	24002922.08	24002922.30	0.0089	0.0015
Venus	61006-04-15 02:53 G	24003147.41	24003147.62	24003147.84	0.0089	0.0009
Venus	61006-11-26 15:50 G	24003372.94	24003373.16	24003373.38	0.0089	0.0004
Venus	61007-07-10 04:34 G	24003598.48	24003598.69	24003598.91	0.0089	0.0002
Venus	61008-02-20 17:31 G	24003824.01	24003824.23	24003824.45	0.0089	0.0007
Venus	61008-10-03 06:29 G	24004049.56	24004049.77	24004049.99	0.0089	0.0012
Venus	61009-05-16 19:26 G	24004275.10	24004275.31	24004275.53	0.0089	0.0017
Venus	61009-12-28 08:24 G	24004500.64	24004500.85	24004501.07	0.0089	0.0022
Venus	61010-08-10 21:07 G	24004726.19	24004726.38	24004726.60	0.0089	0.0028
Venus	61011-03-24 10:19 G	24004951.73	24004951.93	24004952.14	0.0089	0.0033
Venus	61011-11-04 23:17 G	24005177.28	24005177.47	24005177.68	0.0089	0.0038
Venus	61012-06-17 12:29 G	24005402.83	24005403.02	24005403.21	0.0089	0.0043
Venus	61013-01-29 01:26 G	24005628.38	24005628.56	24005628.75	0.0089	0.0048
Venus	61013-09-11 14:10 G	24005853.94	24005854.09	24005854.29	0.0089	0.0054
Venus	61014-04-25 03:22 G	24006079.50	24006079.64	24006079.82	0.0089	0.0059
Venus	61014-12-06 16:19 G	24006305.05	24006305.18	24006305.35	0.0089	0.0064
Venus	61015-07-20 05:17 G	24006530.61	24006530.72	24006530.88	0.0089	0.0070
Venus	61016-03-01 18:29 G	24006756.17	24006756.27	24006756.41	0.0089	0.0074
Venus	61016-10-13 07:41 G	24006981.74	24006981.82	24006981.94	0.0089	0.0079
Venus	61017-05-26 20:38 G	24007207.31	24007207.36	24007207.45	0.0089	0.0084
Venus	61018-01-07 09:50 G	24007432.91	24007432.91	24007432.94	0.0089	0.0089
Mars	61031-11-01 05:31 G	24012478.41	24012478.73	24012479.08	0.0090	0.0012
Mercury	61069-07-06 06:29 G	24026240.74	24026240.77	24026240.82	0.0089	0.0085
Mercury	61069-10-02 07:55 G	24026328.77	24026328.83	24026328.91	0.0089	0.0077
Mercury	61069-12-29 09:22 G	24026416.82	24026416.89	24026416.99	0.0089	0.0069
Mercury	61070-03-27 11:17 G	24026504.87	24026504.97	24026505.07	0.0089	0.0061
Mercury	61070-06-23 12:43 G	24026592.92	24026593.03	24026593.14	0.0089	0.0053
Mercury	61070-09-19 14:10 G	24026680.97	24026681.09	24026681.21	0.0089	0.0045
Mercury	61070-12-16 15:36 G	24026769.03	24026769.15	24026769.28	0.0089	0.0037
Mercury	61071-03-14 17:17 G	24026857.09	24026857.22	24026857.35	0.0089	0.0028

Mercury	61071-06-10 18:43 G	24026945.15	24026945.28	24026945.41	0.0089	0.0020
Mercury	61071-09-06 20:10 G	24027033.20	24027033.34	24027033.48	0.0089	0.0012
Mercury	61071-12-03 21:36 G	24027121.27	24027121.40	24027121.54	0.0089	0.0004
Mercury	61072-02-29 23:02 G	24027209.33	24027209.46	24027209.60	0.0089	0.0004
Mercury	61072-05-28 00:29 G	24027297.39	24027297.52	24027297.66	0.0089	0.0012
Mercury	61072-08-24 01:55 G	24027385.45	24027385.58	24027385.72	0.0089	0.0020
Mercury	61072-11-20 03:22 G	24027473.52	24027473.64	24027473.77	0.0089	0.0028
Mercury	61073-02-16 05:02 G	24027561.58	24027561.71	24027561.83	0.0089	0.0036
Mercury	61073-05-15 06:14 G	24027649.65	24027649.76	24027649.88	0.0089	0.0044
Mercury	61073-08-11 07:41 G	24027737.72	24027737.82	24027737.94	0.0089	0.0051
Mercury	61073-11-07 09:07 G	24027825.78	24027825.88	24027825.99	0.0089	0.0059
Mercury	61074-02-03 10:34 G	24027913.86	24027913.94	24027914.03	0.0089	0.0067
Mercury	61074-05-02 11:46 G	24028001.93	24028001.99	24028002.08	0.0089	0.0075
Mercury	61074-07-29 13:26 G	24028090.02	24028090.06	24028090.11	0.0089	0.0082
Moon	61076-05-04 06:58 G	24028734.75	24028734.79	24028734.87	0.0089	0.0086
Earth	61076-05-04 09:22 G	24028734.87	24028734.89	24028734.92	0.0089	0.0088 *
Earth	61077-05-06 20:53 G	24029102.20	24029102.37	24029102.59	0.0089	0.0058
Moon	61077-05-07 00:00 G	24029102.34	24029102.50	24029102.70	0.0089	0.0061 *
Venus	61077-12-02 03:22 G	24029311.61	24029311.64	24029311.71	0.0089	0.0086
Moon	61078-05-09 06:00 G	24029469.50	24029469.75	24029469.99	0.0089	0.0025
Earth	61078-05-09 09:22 G	24029469.65	24029469.89	24029470.14	0.0089	0.0027 *
Venus	61078-07-15 16:48 G	24029537.13	24029537.20	24029537.30	0.0089	0.0081
Venus	61079-02-26 06:14 G	24029762.66	24029762.76	24029762.88	0.0089	0.0076
Earth	61079-05-11 21:07 G	24029837.13	24029837.38	24029837.64	0.0089	0.0004
Moon	61079-05-12 00:43 G	24029837.27	24029837.53	24029837.79	0.0089	0.0000 *
Venus	61079-10-09 19:26 G	24029988.19	24029988.31	24029988.45	0.0089	0.0071
Moon	61080-05-13 05:31 G	24030204.51	24030204.73	24030204.98	0.0089	0.0037
Earth	61080-05-13 08:53 G	24030204.65	24030204.87	24030205.12	0.0089	0.0034 *
Venus	61080-05-22 08:38 G	24030213.72	24030213.86	24030214.02	0.0089	0.0066
Venus	61081-01-02 21:50 G	24030439.26	24030439.41	24030439.58	0.0089	0.0061

Earth	61081-05-15 21:07 G	24030572.20	24030572.38	24030572.55	0.0089	0.0064
Moon	61081-05-15 22:48 G	24030572.28	24030572.45	24030572.66	0.0089	0.0062 *
Venus	61081-08-16 10:48 G	24030664.80	24030664.95	24030665.14	0.0089	0.0056
Venus	61082-03-30 00:14 G	24030890.34	24030890.51	24030890.70	0.0089	0.0051
Venus	61082-11-10 13:12 G	24031115.88	24031116.05	24031116.26	0.0089	0.0046
Venus	61083-06-24 02:24 G	24031341.42	24031341.60	24031341.81	0.0089	0.0041
Venus	61084-02-04 15:50 G	24031566.96	24031567.16	24031567.36	0.0089	0.0035
Venus	61084-09-17 04:48 G	24031792.50	24031792.70	24031792.92	0.0089	0.0030
Venus	61085-04-30 18:00 G	24032018.04	24032018.25	24032018.47	0.0089	0.0025
Venus	61085-12-12 06:58 G	24032243.58	24032243.79	24032244.02	0.0089	0.0020
Venus	61086-07-25 20:10 G	24032469.13	24032469.34	24032469.56	0.0089	0.0015
Venus	61087-03-08 09:22 G	24032694.68	24032694.89	24032695.12	0.0089	0.0010
Venus	61087-10-19 22:34 G	24032920.22	24032920.44	24032920.66	0.0089	0.0004
Venus	61088-06-01 11:46 G	24033145.77	24033145.99	24033146.21	0.0089	0.0001
Venus	61089-01-13 00:43 G	24033371.31	24033371.53	24033371.75	0.0089	0.0007
Venus	61089-08-26 13:55 G	24033596.86	24033597.08	24033597.30	0.0089	0.0012
Venus	61090-04-09 03:07 G	24033822.42	24033822.63	24033822.85	0.0089	0.0017
Venus	61090-11-20 16:05 G	24034047.97	24034048.17	24034048.39	0.0088	0.0023
Venus	61091-07-04 05:17 G	24034273.52	24034273.72	24034273.93	0.0088	0.0027
Venus	61092-02-14 18:14 G	24034499.06	24034499.26	24034499.48	0.0088	0.0033
Venus	61092-09-27 07:26 G	24034724.62	24034724.81	24034725.01	0.0088	0.0038
Venus	61093-05-10 20:38 G	24034950.17	24034950.36	24034950.55	0.0088	0.0043
Venus	61093-12-22 09:07 G	24035175.72	24035175.88	24035176.09	0.0088	0.0049
Venus	61094-08-04 22:05 G	24035401.27	24035401.42	24035401.62	0.0088	0.0054
Venus	61095-03-18 11:17 G	24035626.82	24035626.97	24035627.16	0.0088	0.0059
Venus	61095-10-30 00:14 G	24035852.38	24035852.51	24035852.68	0.0088	0.0063
Venus	61096-06-11 12:58 G	24036077.93	24036078.04	24036078.21	0.0088	0.0069
Venus	61097-01-23 02:38 G	24036303.48	24036303.61	24036303.73	0.0088	0.0073
Venus	61097-09-05 15:22 G	24036529.05	24036529.14	24036529.25	0.0088	0.0078
Venus	61098-04-19 04:19 G	24036754.62	24036754.68	24036754.77	0.0088	0.0083

Venus	61098-11-30 17:02 G	24036980.20	24036980.21	24036980.27	0.0088	0.0088
Mars	61113-09-16 22:19 G	24042383.15	24042383.43	24042383.73	0.0088	0.0009
Mercury	61153-06-05 06:14 G	24056889.70	24056889.76	24056889.84	0.0088	0.0081
Mercury	61153-09-01 09:07 G	24056977.79	24056977.88	24056978.00	0.0088	0.0071
Mercury	61153-11-28 12:14 G	24057065.89	24057066.01	24057066.16	0.0088	0.0061
Mercury	61154-02-24 15:22 G	24057154.00	24057154.14	24057154.30	0.0088	0.0051
Mercury	61154-05-23 18:43 G	24057242.12	24057242.28	24057242.45	0.0088	0.0040
Mercury	61154-08-19 21:50 G	24057330.24	24057330.41	24057330.59	0.0088	0.0030
Mercury	61154-11-16 00:58 G	24057418.36	24057418.54	24057418.73	0.0088	0.0020
Mercury	61155-02-12 04:19 G	24057506.49	24057506.68	24057506.86	0.0088	0.0009
Mercury	61155-05-11 07:26 G	24057594.62	24057594.81	24057594.99	0.0088	0.0001
Mercury	61155-08-07 10:34 G	24057682.76	24057682.94	24057683.12	0.0088	0.0012
Mercury	61155-11-03 13:41 G	24057770.89	24057771.07	24057771.25	0.0088	0.0022
Mercury	61156-01-30 16:48 G	24057859.03	24057859.20	24057859.38	0.0088	0.0033
Mercury	61156-04-27 19:55 G	24057947.18	24057947.33	24057947.50	0.0088	0.0043
Mercury	61156-07-24 23:02 G	24058035.33	24058035.46	24058035.62	0.0088	0.0054
Mercury	61156-10-21 02:24 G	24058123.48	24058123.60	24058123.73	0.0088	0.0064
Mercury	61157-01-17 05:17 G	24058211.65	24058211.72	24058211.84	0.0088	0.0076
Mercury	61157-04-15 08:53 G	24058299.84	24058299.87	24058299.92	0.0088	0.0086
Moon	61159-11-08 05:02 G	24059236.64	24059236.71	24059236.84	0.0088	0.0081
Earth	61159-11-08 09:07 G	24059236.78	24059236.88	24059236.97	0.0088	0.0082 *
Venus	61160-08-30 23:46 G	24059533.48	24059533.49	24059533.52	0.0088	0.0088
Earth	61160-11-09 19:41 G	24059604.13	24059604.32	24059604.55	0.0088	0.0053
Moon	61160-11-09 23:31 G	24059604.29	24059604.48	24059604.71	0.0088	0.0053 *
Venus	61161-04-13 12:14 G	24059758.96	24059759.01	24059759.11	0.0088	0.0084
Moon	61161-11-12 04:34 G	24059971.44	24059971.69	24059971.94	0.0088	0.0021
Earth	61161-11-12 07:26 G	24059971.57	24059971.81	24059972.07	0.0088	0.0022 *
Venus	61161-11-25 00:58 G	24059984.47	24059984.54	24059984.66	0.0088	0.0079
Venus	61162-07-08 13:55 G	24060209.98	24060210.08	24060210.22	0.0088	0.0074
Earth	61162-11-14 18:58 G	24060339.04	24060339.29	24060339.55	0.0088	0.0008



Moon	61162-11-14 21:36 G	24060339.15	24060339.40	24060339.67	0.0088	0.0009 *
Venus	61163-02-19 02:53 G	24060435.49	24060435.62	24060435.77	0.0088	0.0069
Venus	61163-10-02 15:50 G	24060661.02	24060661.16	24060661.32	0.0088	0.0064
Moon	61163-11-17 04:19 G	24060706.47	24060706.68	24060706.92	0.0088	0.0039
Earth	61163-11-17 06:00 G	24060706.54	24060706.75	24060707.00	0.0088	0.0039 *
Venus	61164-05-15 04:34 G	24060886.54	24060886.69	24060886.87	0.0088	0.0059
Earth	61164-11-18 17:17 G	24061074.08	24061074.22	24061074.41	0.0088	0.0069
Moon	61164-11-18 17:31 G	24061074.08	24061074.23	24061074.42	0.0088	0.0068 *
Venus	61164-12-26 17:31 G	24061112.07	24061112.23	24061112.41	0.0088	0.0054
Venus	61165-08-09 06:29 G	24061337.60	24061337.77	24061337.96	0.0089	0.0049
Venus	61166-03-22 19:26 G	24061563.13	24061563.31	24061563.51	0.0089	0.0044
Venus	61166-11-03 08:10 G	24061788.66	24061788.84	24061789.05	0.0089	0.0039
Venus	61167-06-16 21:07 G	24062014.19	24062014.38	24062014.60	0.0089	0.0034
Venus	61168-01-28 10:05 G	24062239.72	24062239.92	24062240.14	0.0089	0.0028
Venus	61168-09-09 23:17 G	24062465.26	24062465.47	24062465.69	0.0089	0.0023
Venus	61169-04-23 12:14 G	24062690.80	24062691.01	24062691.23	0.0089	0.0018
Venus	61169-12-05 01:12 G	24062916.33	24062916.55	24062916.77	0.0089	0.0013
Venus	61170-07-18 13:55 G	24063141.87	24063142.08	24063142.31	0.0089	0.0008
Venus	61171-03-01 02:53 G	24063367.41	24063367.62	24063367.85	0.0089	0.0003
Venus	61171-10-12 16:05 G	24063592.95	24063593.17	24063593.39	0.0089	0.0003
Venus	61172-05-25 04:48 G	24063818.49	24063818.70	24063818.92	0.0089	0.0009
Venus	61173-01-05 17:46 G	24064044.03	24064044.24	24064044.46	0.0089	0.0013
Venus	61173-08-19 06:43 G	24064269.57	24064269.78	24064270.00	0.0089	0.0019
Venus	61174-04-01 19:41 G	24064495.11	24064495.32	24064495.53	0.0089	0.0024
Venus	61174-11-13 08:38 G	24064720.66	24064720.86	24064721.07	0.0089	0.0029
Venus	61175-06-26 21:36 G	24064946.20	24064946.40	24064946.60	0.0089	0.0034
Venus	61176-02-07 10:19 G	24065171.75	24065171.93	24065172.14	0.0089	0.0040
Venus	61176-09-19 23:17 G	24065397.30	24065397.47	24065397.68	0.0089	0.0045
Venus	61177-05-03 12:29 G	24065622.85	24065623.02	24065623.21	0.0089	0.0050
Venus	61177-12-15 01:26 G	24065848.40	24065848.56	24065848.75	0.0089	0.0055

Venus	61178-07-28 14:24 G	24066073.96	24066074.10	24066074.28	0.0089	0.0060
Venus	61179-03-11 03:36 G	24066299.51	24066299.65	24066299.81	0.0089	0.0065
Venus	61179-10-22 16:48 G	24066525.08	24066525.20	24066525.35	0.0089	0.0070
Venus	61180-06-04 05:46 G	24066750.64	24066750.74	24066750.87	0.0089	0.0075
Venus	61181-01-15 18:43 G	24066976.21	24066976.28	24066976.40	0.0089	0.0081
Venus	61181-08-29 07:55 G	24067201.79	24067201.83	24067201.91	0.0089	0.0085
Mars	61195-06-15 20:10 G	24072240.17	24072240.34	24072240.54	0.0090	0.0075
Mars	61197-05-12 00:29 G	24072936.44	24072936.52	24072936.69	0.0090	0.0084
Mercury	61234-01-05 04:48 G	24086323.70	24086323.70	24086323.71	0.0089	0.0089
Mercury	61234-04-03 06:29 G	24086411.71	24086411.77	24086411.83	0.0089	0.0081
Mercury	61234-06-30 07:55 G	24086499.75	24086499.83	24086499.91	0.0089	0.0072
Mercury	61234-09-26 09:22 G	24086587.80	24086587.89	24086587.99	0.0089	0.0064
Mercury	61234-12-23 10:48 G	24086675.85	24086675.95	24086676.06	0.0089	0.0056
Mercury	61235-03-21 12:14 G	24086763.91	24086764.01	24086764.14	0.0089	0.0049
Mercury	61235-06-17 13:55 G	24086851.96	24086852.08	24086852.21	0.0089	0.0040
Mercury	61235-09-13 15:22 G	24086940.02	24086940.14	24086940.27	0.0089	0.0032
Mercury	61235-12-10 16:48 G	24087028.07	24087028.20	24087028.34	0.0089	0.0024
Mercury	61236-03-07 18:29 G	24087116.13	24087116.27	24087116.40	0.0089	0.0016
Mercury	61236-06-03 19:55 G	24087204.19	24087204.33	24087204.47	0.0089	0.0008
Mercury	61236-08-30 21:22 G	24087292.25	24087292.39	24087292.53	0.0089	0.0001
Mercury	61236-11-26 22:48 G	24087380.32	24087380.45	24087380.59	0.0089	0.0008
Mercury	61237-02-23 00:14 G	24087468.38	24087468.51	24087468.65	0.0089	0.0016
Mercury	61237-05-22 01:41 G	24087556.44	24087556.57	24087556.71	0.0089	0.0024
Mercury	61237-08-18 03:07 G	24087644.51	24087644.63	24087644.76	0.0089	0.0032
Mercury	61237-11-14 04:34 G	24087732.57	24087732.69	24087732.82	0.0089	0.0040
Mercury	61238-02-10 06:00 G	24087820.64	24087820.75	24087820.87	0.0089	0.0048
Mercury	61238-05-09 07:12 G	24087908.71	24087908.80	24087908.92	0.0089	0.0057
Mercury	61238-08-05 08:53 G	24087996.78	24087996.87	24087996.97	0.0089	0.0064
Mercury	61238-11-01 10:19 G	24088084.86	24088084.93	24088085.02	0.0089	0.0071
Mercury	61239-01-28 11:31 G	24088172.94	24088172.98	24088173.06	0.0089	0.0080

Mercury	61239-04-26 12:58 G	24088261.03	24088261.04	24088261.08	0.0089	0.0087
Moon	61241-05-07 02:38 G	24089002.51	24089002.61	24089002.77	0.0089	0.0077
Earth	61241-05-07 06:43 G	24089002.64	24089002.78	24089002.94	0.0089	0.0072 *
Venus	61241-07-24 01:12 G	24089080.55	24089080.55	24089080.55	0.0089	0.0089
Venus	61242-03-06 14:10 G	24089306.04	24089306.09	24089306.18	0.0089	0.0084
Earth	61242-05-09 18:14 G	24089370.05	24089370.26	24089370.50	0.0089	0.0042
Moon	61242-05-09 21:50 G	24089370.19	24089370.41	24089370.66	0.0089	0.0037 *
Venus	61242-10-18 03:36 G	24089531.56	24089531.65	24089531.76	0.0089	0.0079
Moon	61243-05-12 03:50 G	24089737.42	24089737.66	24089737.92	0.0089	0.0015
Earth	61243-05-12 06:43 G	24089737.52	24089737.78	24089738.04	0.0089	0.0011 *
Venus	61243-05-31 16:48 G	24089757.09	24089757.20	24089757.33	0.0089	0.0074
Venus	61244-01-12 06:00 G	24089982.63	24089982.75	24089982.90	0.0089	0.0069
Earth	61244-05-13 18:29 G	24090105.03	24090105.27	24090105.53	0.0089	0.0020
Moon	61244-05-13 20:53 G	24090105.12	24090105.37	24090105.63	0.0089	0.0023 *
Venus	61244-08-24 19:26 G	24090208.17	24090208.31	24090208.47	0.0089	0.0064
Venus	61245-04-07 08:38 G	24090433.71	24090433.86	24090434.04	0.0089	0.0059
Moon	61245-05-16 05:46 G	24090472.54	24090472.74	24090472.96	0.0089	0.0046
Earth	61245-05-16 06:29 G	24090472.56	24090472.77	24090472.99	0.0089	0.0050 *
Venus	61245-11-18 21:50 G	24090659.25	24090659.41	24090659.60	0.0089	0.0054
Earth	61246-05-18 17:46 G	24090840.16	24090840.24	24090840.38	0.0089	0.0081
Moon	61246-05-18 17:31 G	24090840.17	24090840.23	24090840.34	0.0089	0.0084 *
Venus	61246-07-02 11:02 G	24090884.79	24090884.96	24090885.15	0.0089	0.0049
Venus	61247-02-13 00:14 G	24091110.33	24091110.51	24091110.71	0.0089	0.0044
Venus	61247-09-26 13:26 G	24091335.87	24091336.06	24091336.27	0.0089	0.0039
Venus	61248-05-09 02:24 G	24091561.41	24091561.60	24091561.82	0.0089	0.0034
Venus	61248-12-20 15:50 G	24091786.96	24091787.16	24091787.37	0.0089	0.0028
Venus	61249-08-03 05:02 G	24092012.50	24092012.71	24092012.92	0.0089	0.0023
Venus	61250-03-16 18:14 G	24092238.05	24092238.26	24092238.48	0.0089	0.0018
Venus	61250-10-28 07:12 G	24092463.59	24092463.80	24092464.03	0.0089	0.0013
Venus	61251-06-10 20:24 G	24092689.13	24092689.35	24092689.57	0.0089	0.0008

Venus	61252-01-22 09:36 G	24092914.68	24092914.90	24092915.12	0.0089	0.0002
Venus	61252-09-03 22:34 G	24093140.22	24093140.44	24093140.67	0.0089	0.0004
Venus	61253-04-17 11:46 G	24093365.78	24093365.99	24093366.22	0.0089	0.0009
Venus	61253-11-29 00:58 G	24093591.32	24093591.54	24093591.76	0.0089	0.0014
Venus	61254-07-12 13:55 G	24093816.87	24093817.08	24093817.30	0.0089	0.0019
Venus	61255-02-23 03:22 G	24094042.42	24094042.64	24094042.85	0.0088	0.0024
Venus	61255-10-06 16:05 G	24094267.97	24094268.17	24094268.39	0.0088	0.0029
Venus	61256-05-19 05:17 G	24094493.53	24094493.72	24094493.93	0.0088	0.0034
Venus	61256-12-30 18:14 G	24094719.08	24094719.26	24094719.47	0.0088	0.0040
Venus	61257-08-13 07:26 G	24094944.63	24094944.81	24094945.01	0.0088	0.0045
Venus	61258-03-26 20:38 G	24095170.19	24095170.36	24095170.55	0.0088	0.0050
Venus	61258-11-07 09:36 G	24095395.74	24095395.90	24095396.09	0.0088	0.0055
Venus	61259-06-20 22:34 G	24095621.29	24095621.44	24095621.62	0.0088	0.0060
Venus	61260-02-01 11:31 G	24095846.84	24095846.98	24095847.14	0.0088	0.0065
Venus	61260-09-14 00:29 G	24096072.40	24096072.52	24096072.67	0.0088	0.0070
Venus	61261-04-27 13:26 G	24096297.96	24096298.06	24096298.20	0.0088	0.0075
Venus	61261-12-09 02:24 G	24096523.53	24096523.60	24096523.72	0.0088	0.0079
Venus	61262-07-22 15:50 G	24096749.09	24096749.16	24096749.23	0.0088	0.0084
Mars	61277-05-02 11:46 G	24102146.76	24102146.99	24102147.27	0.0088	0.0044
Mars	61279-03-27 04:05 G	24102840.62	24102840.67	24102840.76	0.0088	0.0085
Mercury	61317-12-05 01:41 G	24116972.55	24116972.57	24116972.62	0.0088	0.0086
Mercury	61318-03-03 04:34 G	24117060.62	24117060.69	24117060.80	0.0088	0.0077
Mercury	61318-05-30 07:41 G	24117148.72	24117148.82	24117148.96	0.0088	0.0066
Mercury	61318-08-26 11:17 G	24117236.83	24117236.97	24117237.11	0.0088	0.0055
Mercury	61318-11-22 14:10 G	24117324.94	24117325.09	24117325.26	0.0088	0.0045
Mercury	61319-02-18 17:17 G	24117413.06	24117413.22	24117413.40	0.0088	0.0035
Mercury	61319-05-17 20:38 G	24117501.18	24117501.36	24117501.54	0.0088	0.0025
Mercury	61319-08-13 23:46 G	24117589.31	24117589.49	24117589.67	0.0088	0.0014
Mercury	61319-11-10 02:53 G	24117677.44	24117677.62	24117677.81	0.0088	0.0004
Mercury	61320-02-06 06:00 G	24117765.57	24117765.75	24117765.94	0.0088	0.0007

Mercury	61320-05-04 09:07 G	24117853.70	24117853.88	24117854.07	0.0088	0.0017
Mercury	61320-07-31 12:29 G	24117941.84	24117942.02	24117942.19	0.0088	0.0028
Mercury	61320-10-27 15:22 G	24118029.98	24118030.14	24118030.32	0.0088	0.0038
Mercury	61321-01-23 18:43 G	24118118.13	24118118.28	24118118.44	0.0088	0.0049
Mercury	61321-04-21 21:50 G	24118206.28	24118206.41	24118206.55	0.0088	0.0059
Mercury	61321-07-19 00:43 G	24118294.44	24118294.53	24118294.66	0.0088	0.0071
Mercury	61321-10-15 04:19 G	24118382.61	24118382.68	24118382.76	0.0088	0.0081
Moon	61324-11-10 02:38 G	24119504.45	24119504.61	24119504.81	0.0088	0.0062
Earth	61324-11-10 05:46 G	24119504.59	24119504.74	24119504.93	0.0088	0.0066 *
Venus	61324-12-03 11:02 G	24119527.92	24119527.96	24119528.02	0.0088	0.0086
Venus	61325-07-17 00:00 G	24119753.42	24119753.50	24119753.59	0.0088	0.0081
Earth	61325-11-12 17:46 G	24119872.00	24119872.24	24119872.47	0.0088	0.0036
Moon	61325-11-12 19:26 G	24119872.09	24119872.31	24119872.56	0.0088	0.0041 *
Venus	61326-02-27 12:14 G	24119978.93	24119979.01	24119979.14	0.0088	0.0077
Venus	61326-10-11 01:12 G	24120204.44	24120204.55	24120204.70	0.0088	0.0072
Moon	61326-11-15 04:05 G	24120239.43	24120239.67	24120239.92	0.0088	0.0003
Earth	61326-11-15 05:02 G	24120239.46	24120239.71	24120239.97	0.0088	0.0006 *
Venus	61327-05-24 14:10 G	24120429.96	24120430.09	24120430.25	0.0088	0.0067
Moon	61327-11-17 16:34 G	24120606.93	24120607.19	24120607.45	0.0088	0.0020
Earth	61327-11-17 16:19 G	24120606.94	24120607.18	24120607.44	0.0088	0.0024 *
Venus	61328-01-05 02:53 G	24120655.48	24120655.62	24120655.79	0.0088	0.0062
Venus	61328-08-17 15:50 G	24120881.01	24120881.16	24120881.34	0.0088	0.0057
Earth	61328-11-19 03:22 G	24120974.46	24120974.64	24120974.86	0.0088	0.0055
Moon	61328-11-19 05:17 G	24120974.54	24120974.72	24120974.91	0.0088	0.0059 *
Venus	61329-03-31 04:48 G	24121106.53	24121106.70	24121106.89	0.0088	0.0052
Venus	61329-11-11 17:31 G	24121332.06	24121332.23	24121332.43	0.0089	0.0047
Moon	61329-11-21 12:43 G	24121341.92	24121342.03	24121342.14	0.0089	0.0080
Earth	61329-11-21 14:38 G	24121342.06	24121342.11	24121342.21	0.0089	0.0085 *
Venus	61330-06-25 06:29 G	24121557.58	24121557.77	24121557.97	0.0089	0.0042
Venus	61331-02-05 19:12 G	24121783.11	24121783.30	24121783.51	0.0089	0.0037

Venus	61331-09-19 08:24 G	24122008.65	24122008.85	24122009.06	0.0089	0.0031
Venus	61332-05-01 21:07 G	24122234.19	24122234.38	24122234.61	0.0089	0.0027
Venus	61332-12-13 10:05 G	24122459.72	24122459.92	24122460.15	0.0089	0.0022
Jupiter	61333-01-31 07:12 G	24122508.47	24122508.80	24122509.25	0.0089	0.0064
Venus	61333-07-26 23:17 G	24122685.25	24122685.47	24122685.69	0.0089	0.0016
Venus	61334-03-09 12:14 G	24122910.79	24122911.01	24122911.23	0.0089	0.0011
Venus	61334-10-21 01:12 G	24123136.33	24123136.55	24123136.77	0.0089	0.0006
Venus	61335-06-03 14:10 G	24123361.87	24123362.09	24123362.31	0.0089	0.0000
Venus	61336-01-15 03:07 G	24123587.41	24123587.63	24123587.85	0.0089	0.0005
Venus	61336-08-27 16:05 G	24123812.95	24123813.17	24123813.39	0.0089	0.0010
Venus	61337-04-10 05:02 G	24124038.49	24124038.71	24124038.93	0.0089	0.0015
Venus	61337-11-21 17:46 G	24124264.03	24124264.24	24124264.46	0.0089	0.0021
Venus	61338-07-05 06:29 G	24124489.57	24124489.77	24124489.99	0.0089	0.0026
Venus	61339-02-15 19:26 G	24124715.12	24124715.31	24124715.53	0.0089	0.0031
Venus	61339-09-29 08:24 G	24124940.67	24124940.85	24124941.07	0.0089	0.0036
Venus	61340-05-11 21:22 G	24125166.21	24125166.39	24125166.60	0.0089	0.0041
Venus	61340-12-23 10:19 G	24125391.76	24125391.93	24125392.13	0.0089	0.0046
Venus	61341-08-05 23:17 G	24125617.30	24125617.47	24125617.66	0.0089	0.0051
Venus	61342-03-19 12:14 G	24125842.86	24125843.01	24125843.19	0.0089	0.0056
Venus	61342-10-31 01:26 G	24126068.41	24126068.56	24126068.73	0.0089	0.0061
Venus	61343-06-13 14:24 G	24126293.97	24126294.10	24126294.26	0.0089	0.0066
Venus	61344-01-25 03:22 G	24126519.53	24126519.64	24126519.78	0.0089	0.0071
Venus	61344-09-06 16:34 G	24126745.09	24126745.19	24126745.31	0.0089	0.0076
Venus	61345-04-20 05:31 G	24126970.66	24126970.73	24126970.84	0.0089	0.0081
Venus	61345-12-01 18:29 G	24127196.24	24127196.27	24127196.35	0.0089	0.0087
Mars	61360-12-24 14:53 G	24132697.81	24132698.12	24132698.47	0.0090	0.0019
Mercury	61398-10-03 04:19 G	24146494.65	24146494.68	24146494.73	0.0089	0.0085
Mercury	61398-12-30 06:00 G	24146582.69	24146582.75	24146582.83	0.0089	0.0076
Mercury	61399-03-28 07:26 G	24146670.73	24146670.81	24146670.91	0.0089	0.0068
Mercury	61399-06-24 08:53 G	24146758.78	24146758.87	24146758.99	0.0089	0.0060

Mercury	61399-09-20 10:48 G	24146846.84	24146846.95	24146847.06	0.0089	0.0052
Mercury	61399-12-17 12:14 G	24146934.89	24146935.01	24146935.13	0.0089	0.0044
Mercury	61400-03-15 13:41 G	24147022.95	24147023.07	24147023.20	0.0089	0.0035
Mercury	61400-06-11 15:07 G	24147111.00	24147111.13	24147111.27	0.0089	0.0028
Mercury	61400-09-07 16:48 G	24147199.06	24147199.20	24147199.33	0.0089	0.0019
Mercury	61400-12-04 18:14 G	24147287.12	24147287.26	24147287.40	0.0089	0.0011
Mercury	61401-03-02 19:41 G	24147375.18	24147375.32	24147375.46	0.0089	0.0003
Mercury	61401-05-29 21:07 G	24147463.25	24147463.38	24147463.52	0.0089	0.0005
Mercury	61401-08-25 22:34 G	24147551.31	24147551.44	24147551.58	0.0089	0.0013
Mercury	61401-11-22 00:00 G	24147639.37	24147639.50	24147639.64	0.0089	0.0021
Mercury	61402-02-18 01:26 G	24147727.44	24147727.56	24147727.69	0.0089	0.0029
Mercury	61402-05-17 03:07 G	24147815.50	24147815.63	24147815.75	0.0089	0.0037
Mercury	61402-08-13 04:19 G	24147903.57	24147903.68	24147903.80	0.0089	0.0045
Mercury	61402-11-09 05:46 G	24147991.64	24147991.74	24147991.86	0.0089	0.0052
Mercury	61403-02-05 07:12 G	24148079.71	24148079.80	24148079.91	0.0089	0.0060
Mercury	61403-05-04 08:38 G	24148167.78	24148167.86	24148167.95	0.0089	0.0068
Mercury	61403-07-31 09:50 G	24148255.86	24148255.91	24148256.00	0.0089	0.0076
Mercury	61403-10-27 11:31 G	24148343.94	24148343.98	24148344.03	0.0089	0.0083
Earth	61405-05-08 15:50 G	24148903.13	24148903.16	24148903.24	0.0089	0.0087
Moon	61405-05-08 19:12 G	24148903.25	24148903.30	24148903.41	0.0089	0.0085
Venus	61405-10-27 11:31 G	24149074.96	24149074.98	24149075.05	0.0089	0.0087
Moon	61406-05-11 01:12 G	24149270.39	24149270.55	24149270.77	0.0089	0.0058
Earth	61406-05-11 04:05 G	24149270.48	24149270.67	24149270.88	0.0089	0.0056 *
Venus	61406-06-10 00:43 G	24149300.47	24149300.53	24149300.63	0.0089	0.0082
Venus	61407-01-21 14:10 G	24149525.99	24149526.09	24149526.21	0.0089	0.0077
Earth	61407-05-13 15:50 G	24149637.92	24149638.16	24149638.42	0.0089	0.0026
Moon	61407-05-13 17:17 G	24149637.97	24149638.22	24149638.48	0.0089	0.0024 *
Venus	61407-09-04 03:22 G	24149751.53	24149751.64	24149751.78	0.0089	0.0072
Venus	61408-04-16 16:34 G	24149977.06	24149977.19	24149977.35	0.0089	0.0067
Moon	61408-05-15 03:22 G	24150005.40	24150005.64	24150005.89	0.0089	0.0004

Earth	61408-05-15 03:50 G	24150005.41	24150005.66	24150005.92	0.0089	0.0005	*
Venus	61408-11-28 06:00 G	24150202.60	24150202.75	24150202.92	0.0089	0.0062	
Moon	61409-05-17 14:24 G	24150372.87	24150373.10	24150373.35	0.0089	0.0037	
Earth	61409-05-17 15:22 G	24150372.93	24150373.14	24150373.40	0.0089	0.0036	*
Venus	61409-07-11 19:12 G	24150428.14	24150428.30	24150428.48	0.0089	0.0057	
Venus	61410-02-22 08:24 G	24150653.69	24150653.85	24150654.04	0.0089	0.0052	
Earth	61410-05-20 03:22 G	24150740.48	24150740.64	24150740.83	0.0089	0.0066	
Moon	61410-05-20 05:31 G	24150740.58	24150740.73	24150740.92	0.0089	0.0065	*
Venus	61410-10-05 21:36 G	24150879.23	24150879.40	24150879.60	0.0089	0.0047	
Venus	61411-05-19 10:48 G	24151104.77	24151104.95	24151105.16	0.0089	0.0042	
Venus	61411-12-31 00:00 G	24151330.31	24151330.50	24151330.71	0.0089	0.0037	
Venus	61412-08-12 13:12 G	24151555.85	24151556.05	24151556.27	0.0089	0.0032	
Venus	61413-03-26 02:24 G	24151781.40	24151781.60	24151781.83	0.0089	0.0027	
Venus	61413-11-06 15:50 G	24152006.95	24152007.16	24152007.38	0.0089	0.0021	
Venus	61414-06-20 04:48 G	24152232.49	24152232.70	24152232.92	0.0089	0.0016	
Venus	61415-01-31 18:00 G	24152458.03	24152458.25	24152458.47	0.0089	0.0011	
Venus	61415-09-14 07:12 G	24152683.58	24152683.80	24152684.02	0.0089	0.0006	
Venus	61416-04-26 20:24 G	24152909.13	24152909.35	24152909.57	0.0089	0.0002	
Venus	61416-12-08 09:22 G	24153134.67	24153134.89	24153135.11	0.0089	0.0005	
Venus	61417-07-21 22:19 G	24153360.21	24153360.43	24153360.65	0.0089	0.0010	
Venus	61418-03-04 11:17 G	24153585.76	24153585.97	24153586.20	0.0089	0.0016	
Venus	61418-10-16 00:29 G	24153811.31	24153811.52	24153811.74	0.0089	0.0020	
Venus	61419-05-29 13:26 G	24154036.86	24154037.06	24154037.28	0.0089	0.0026	
Venus	61420-01-10 02:38 G	24154262.41	24154262.61	24154262.82	0.0088	0.0031	
Venus	61420-08-22 15:36 G	24154487.96	24154488.15	24154488.36	0.0088	0.0036	
Venus	61421-04-05 05:02 G	24154713.52	24154713.71	24154713.91	0.0088	0.0041	
Venus	61421-11-16 18:00 G	24154939.07	24154939.25	24154939.45	0.0088	0.0046	
Venus	61422-06-30 07:12 G	24155164.62	24155164.80	24155164.98	0.0088	0.0051	
Venus	61423-02-10 20:10 G	24155390.18	24155390.34	24155390.52	0.0088	0.0056	
Venus	61423-09-24 09:22 G	24155615.73	24155615.89	24155616.05	0.0088	0.0061	



Venus	61424-05-06 22:19 G	24155841.29	24155841.43	24155841.59	0.0088	0.0066
Venus	61424-12-18 11:17 G	24156066.85	24156066.97	24156067.11	0.0088	0.0071
Venus	61425-08-01 00:14 G	24156292.41	24156292.51	24156292.64	0.0088	0.0076
Venus	61426-03-14 13:12 G	24156517.98	24156518.05	24156518.16	0.0088	0.0081
Venus	61426-10-26 01:55 G	24156743.55	24156743.58	24156743.67	0.0088	0.0086
Mars	61442-11-11 16:48 G	24162603.94	24162604.20	24162604.49	0.0088	0.0033
Mercury	61482-09-02 00:14 G	24177143.46	24177143.51	24177143.60	0.0088	0.0081
Mercury	61482-11-29 03:22 G	24177231.55	24177231.64	24177231.76	0.0088	0.0071
Mercury	61483-02-25 06:43 G	24177319.65	24177319.78	24177319.91	0.0088	0.0061
Mercury	61483-05-24 09:50 G	24177407.76	24177407.91	24177408.06	0.0088	0.0050
Mercury	61483-08-20 12:43 G	24177495.88	24177496.03	24177496.20	0.0088	0.0040
Mercury	61483-11-16 15:50 G	24177584.00	24177584.16	24177584.34	0.0088	0.0030
Mercury	61484-02-12 18:58 G	24177672.12	24177672.29	24177672.48	0.0088	0.0020
Mercury	61484-05-10 22:19 G	24177760.24	24177760.43	24177760.61	0.0088	0.0009
Mercury	61484-08-07 01:26 G	24177848.37	24177848.56	24177848.74	0.0088	0.0001
Mercury	61484-11-03 04:34 G	24177936.51	24177936.69	24177936.87	0.0088	0.0011
Mercury	61485-01-30 07:26 G	24178024.64	24178024.81	24178025.00	0.0088	0.0023
Mercury	61485-04-28 10:48 G	24178112.78	24178112.95	24178113.13	0.0088	0.0032
Mercury	61485-07-25 13:41 G	24178200.92	24178201.07	24178201.25	0.0088	0.0043
Mercury	61485-10-21 17:02 G	24178289.07	24178289.21	24178289.37	0.0088	0.0054
Mercury	61486-01-17 20:10 G	24178377.23	24178377.34	24178377.48	0.0088	0.0064
Mercury	61486-04-15 23:31 G	24178465.39	24178465.48	24178465.58	0.0088	0.0075
Mercury	61486-07-13 02:38 G	24178553.58	24178553.61	24178553.67	0.0088	0.0085
Venus	61488-07-25 09:07 G	24179296.88	24179296.88	24179296.88	0.0088	0.0088
Earth	61488-11-10 14:38 G	24179405.03	24179405.11	24179405.24	0.0088	0.0081
Moon	61488-11-10 16:34 G	24179405.10	24179405.19	24179405.33	0.0088	0.0079 *
Venus	61489-03-07 21:36 G	24179522.35	24179522.40	24179522.48	0.0088	0.0084
Venus	61489-10-19 10:48 G	24179747.85	24179747.95	24179748.04	0.0088	0.0079
Moon	61489-11-13 02:10 G	24179772.40	24179772.59	24179772.80	0.0088	0.0053
Earth	61489-11-13 02:24 G	24179772.40	24179772.60	24179772.83	0.0088	0.0051 *

Venus	61490-06-01 23:02 G	24179973.36	24179973.46	24179973.60	0.0088	0.0074
Moon	61490-11-15 12:58 G	24180139.79	24180140.04	24180140.31	0.0088	0.0018
Earth	61490-11-15 14:10 G	24180139.84	24180140.09	24180140.35	0.0088	0.0020 *
Venus	61491-01-13 11:46 G	24180198.88	24180198.99	24180199.15	0.0088	0.0070
Venus	61491-08-27 00:58 G	24180424.40	24180424.54	24180424.70	0.0088	0.0065
Earth	61491-11-18 01:26 G	24180507.31	24180507.56	24180507.82	0.0088	0.0010
Moon	61491-11-18 03:07 G	24180507.38	24180507.63	24180507.88	0.0088	0.0008 *
Venus	61492-04-08 13:41 G	24180649.92	24180650.07	24180650.25	0.0088	0.0060
Moon	61492-11-19 09:36 G	24180874.68	24180874.90	24180875.14	0.0088	0.0042
Earth	61492-11-19 12:43 G	24180874.81	24180875.03	24180875.27	0.0088	0.0040 *
Venus	61492-11-20 02:38 G	24180875.45	24180875.61	24180875.79	0.0088	0.0055
Venus	61493-07-03 15:22 G	24181100.97	24181101.14	24181101.33	0.0088	0.0050
Earth	61493-11-22 00:00 G	24181242.36	24181242.50	24181242.67	0.0088	0.0070
Moon	61493-11-22 03:50 G	24181242.50	24181242.66	24181242.82	0.0088	0.0068 *
Venus	61494-02-14 04:19 G	24181326.49	24181326.68	24181326.87	0.0088	0.0045
Venus	61494-09-27 17:17 G	24181552.03	24181552.22	24181552.42	0.0089	0.0040
Venus	61495-05-11 06:00 G	24181777.56	24181777.75	24181777.96	0.0089	0.0035
Venus	61495-12-22 18:58 G	24182003.09	24182003.29	24182003.50	0.0089	0.0030
Venus	61496-08-04 07:41 G	24182228.62	24182228.82	24182229.04	0.0089	0.0025
Venus	61497-03-17 20:38 G	24182454.16	24182454.36	24182454.58	0.0089	0.0020
Venus	61497-10-29 09:36 G	24182679.69	24182679.90	24182680.13	0.0089	0.0015
Venus	61498-06-11 22:34 G	24182905.23	24182905.44	24182905.67	0.0089	0.0010
Venus	61499-01-23 11:31 G	24183130.77	24183130.98	24183131.21	0.0089	0.0005
Jupiter	61499-04-05 21:07 G	24183202.83	24183203.38	24183203.94	0.0089	0.0003
Venus	61499-09-06 00:43 G	24183356.31	24183356.53	24183356.75	0.0089	0.0001
Venus	61500-04-19 13:41 G	24183581.85	24183582.07	24183582.29	0.0089	0.0007
Venus	61500-12-01 02:38 G	24183807.39	24183807.61	24183807.83	0.0089	0.0012
Venus	61501-07-14 15:22 G	24184032.93	24184033.14	24184033.37	0.0089	0.0017
Venus	61502-02-25 04:19 G	24184258.48	24184258.68	24184258.90	0.0089	0.0022
Venus	61502-10-08 17:31 G	24184484.03	24184484.23	24184484.44	0.0089	0.0027

Venus	61503-05-22 06:29 G	24184709.57	24184709.77	24184709.98	0.0089	0.0032
Venus	61504-01-02 19:26 G	24184935.11	24184935.31	24184935.51	0.0089	0.0037
Venus	61504-08-15 07:55 G	24185160.66	24185160.83	24185161.05	0.0089	0.0043
Venus	61505-03-28 20:53 G	24185386.21	24185386.37	24185386.58	0.0089	0.0048
Venus	61505-11-09 10:05 G	24185611.76	24185611.92	24185612.11	0.0089	0.0053
Venus	61506-06-22 22:48 G	24185837.31	24185837.45	24185837.64	0.0089	0.0058
Venus	61507-02-03 11:46 G	24186062.86	24186062.99	24186063.17	0.0089	0.0063
Venus	61507-09-17 00:58 G	24186288.42	24186288.54	24186288.70	0.0089	0.0068
Venus	61508-04-29 14:24 G	24186513.98	24186514.10	24186514.23	0.0089	0.0073
Venus	61508-12-11 03:22 G	24186739.54	24186739.64	24186739.75	0.0089	0.0077
Venus	61509-07-24 16:05 G	24186965.11	24186965.17	24186965.27	0.0089	0.0083
Venus	61510-03-07 05:02 G	24187190.69	24187190.71	24187190.77	0.0089	0.0087
Mars	61524-08-09 04:34 G	24192459.42	24192459.69	24192459.99	0.0089	0.0048
Mercury	61563-04-05 02:38 G	24206577.60	24206577.61	24206577.62	0.0089	0.0089
Mercury	61563-07-02 04:05 G	24206665.62	24206665.67	24206665.73	0.0089	0.0080
Mercury	61563-09-28 05:31 G	24206753.66	24206753.73	24206753.82	0.0089	0.0072
Mercury	61563-12-25 06:58 G	24206841.71	24206841.79	24206841.90	0.0089	0.0064
Mercury	61564-03-22 08:24 G	24206929.76	24206929.85	24206929.97	0.0089	0.0057
Mercury	61564-06-18 10:05 G	24207017.81	24207017.92	24207018.04	0.0089	0.0048
Mercury	61564-09-14 11:46 G	24207105.87	24207105.99	24207106.12	0.0089	0.0040
Mercury	61564-12-11 13:12 G	24207193.93	24207194.05	24207194.18	0.0089	0.0032
Mercury	61565-03-09 14:53 G	24207281.98	24207282.12	24207282.25	0.0089	0.0023
Mercury	61565-06-05 16:19 G	24207370.04	24207370.18	24207370.32	0.0089	0.0015
Mercury	61565-09-01 17:46 G	24207458.10	24207458.24	24207458.38	0.0089	0.0007
Mercury	61565-11-28 19:12 G	24207546.17	24207546.30	24207546.44	0.0089	0.0003
Mercury	61566-02-24 20:38 G	24207634.23	24207634.36	24207634.50	0.0089	0.0010
Mercury	61566-05-23 22:05 G	24207722.29	24207722.42	24207722.56	0.0089	0.0017
Mercury	61566-08-19 23:31 G	24207810.36	24207810.48	24207810.62	0.0089	0.0025
Mercury	61566-11-16 01:12 G	24207898.42	24207898.55	24207898.68	0.0089	0.0033
Mercury	61567-02-12 02:38 G	24207986.49	24207986.61	24207986.73	0.0089	0.0040

Mercury	61567-05-11 04:05 G	24208074.56	24208074.67	24208074.79	0.0089	0.0048
Mercury	61567-08-07 05:31 G	24208162.63	24208162.73	24208162.84	0.0089	0.0056
Mercury	61567-11-03 06:43 G	24208250.70	24208250.78	24208250.89	0.0089	0.0064
Mercury	61568-01-30 08:10 G	24208338.77	24208338.84	24208338.93	0.0089	0.0072
Mercury	61568-04-27 09:36 G	24208426.85	24208426.90	24208426.97	0.0089	0.0080
Mercury	61568-07-24 11:17 G	24208514.95	24208514.97	24208514.99	0.0089	0.0087
Venus	61570-01-29 21:50 G	24209069.37	24209069.41	24209069.50	0.0089	0.0085
Earth	61570-05-11 12:43 G	24209170.90	24209171.03	24209171.21	0.0089	0.0071
Moon	61570-05-11 13:55 G	24209170.95	24209171.08	24209171.23	0.0089	0.0075 *
Venus	61570-09-12 11:17 G	24209294.89	24209294.97	24209295.08	0.0089	0.0080
Venus	61571-04-26 00:29 G	24209520.42	24209520.52	24209520.65	0.0089	0.0075
Earth	61571-05-14 00:58 G	24209538.32	24209538.54	24209538.77	0.0089	0.0040
Moon	61571-05-14 01:26 G	24209538.35	24209538.56	24209538.80	0.0089	0.0036 *
Venus	61571-12-07 13:41 G	24209745.95	24209746.07	24209746.22	0.0089	0.0070
Moon	61572-05-15 11:17 G	24209905.71	24209905.97	24209906.24	0.0089	0.0014
Earth	61572-05-15 12:43 G	24209905.78	24209906.03	24209906.29	0.0089	0.0010 *
Venus	61572-07-20 03:07 G	24209971.49	24209971.63	24209971.78	0.0089	0.0065
Venus	61573-03-02 16:19 G	24210197.03	24210197.18	24210197.35	0.0089	0.0060
Earth	61573-05-18 00:14 G	24210273.27	24210273.51	24210273.77	0.0089	0.0021
Moon	61573-05-18 02:53 G	24210273.39	24210273.62	24210273.87	0.0089	0.0026 *
Venus	61573-10-14 05:31 G	24210422.57	24210422.73	24210422.91	0.0089	0.0055
Moon	61574-05-20 08:38 G	24210640.66	24210640.86	24210641.10	0.0089	0.0047
Earth	61574-05-20 12:00 G	24210640.81	24210641.00	24210641.23	0.0089	0.0052 *
Venus	61574-05-27 18:43 G	24210648.11	24210648.28	24210648.47	0.0089	0.0050
Venus	61575-01-08 07:55 G	24210873.65	24210873.83	24210874.03	0.0089	0.0045
Earth	61575-05-23 00:00 G	24211008.42	24211008.50	24211008.62	0.0089	0.0082
Moon	61575-05-23 03:36 G	24211008.61	24211008.65	24211008.73	0.0089	0.0086 *
Venus	61575-08-21 21:07 G	24211099.20	24211099.38	24211099.59	0.0089	0.0040
Venus	61576-04-03 10:34 G	24211324.75	24211324.94	24211325.15	0.0089	0.0035
Venus	61576-11-14 23:46 G	24211550.29	24211550.49	24211550.71	0.0089	0.0030

Venus	61577-06-28 12:58 G	24211775.84	24211776.04	24211776.26	0.0089	0.0025
Venus	61578-02-09 02:24 G	24212001.38	24212001.60	24212001.81	0.0089	0.0019
Venus	61578-09-22 15:36 G	24212226.93	24212227.15	24212227.37	0.0089	0.0014
Venus	61579-05-06 04:34 G	24212452.48	24212452.69	24212452.92	0.0089	0.0009
Venus	61579-12-17 17:46 G	24212678.02	24212678.24	24212678.46	0.0089	0.0004
Venus	61580-07-30 06:58 G	24212903.57	24212903.79	24212904.01	0.0089	0.0002
Venus	61581-03-12 20:10 G	24213129.12	24213129.34	24213129.56	0.0089	0.0007
Venus	61581-10-24 09:07 G	24213354.66	24213354.88	24213355.10	0.0089	0.0012
Venus	61582-06-06 22:05 G	24213580.21	24213580.42	24213580.64	0.0089	0.0017
Venus	61583-01-18 11:17 G	24213805.75	24213805.97	24213806.18	0.0089	0.0022
Venus	61583-09-01 00:00 G	24214031.30	24214031.50	24214031.72	0.0089	0.0027
Venus	61584-04-13 13:12 G	24214256.86	24214257.05	24214257.27	0.0089	0.0032
Venus	61584-11-25 02:10 G	24214482.40	24214482.59	24214482.80	0.0088	0.0038
Venus	61585-07-08 15:07 G	24214707.95	24214708.13	24214708.34	0.0088	0.0043
Venus	61586-02-19 04:05 G	24214933.50	24214933.67	24214933.88	0.0088	0.0048
Venus	61586-10-02 17:17 G	24215159.06	24215159.22	24215159.41	0.0088	0.0053
Venus	61587-05-16 06:29 G	24215384.61	24215384.77	24215384.95	0.0088	0.0057
Venus	61587-12-27 19:26 G	24215610.17	24215610.31	24215610.48	0.0088	0.0062
Venus	61588-08-09 08:24 G	24215835.73	24215835.85	24215836.01	0.0088	0.0067
Venus	61589-03-22 21:22 G	24216061.29	24216061.39	24216061.54	0.0088	0.0073
Venus	61589-11-03 10:48 G	24216286.85	24216286.95	24216287.07	0.0088	0.0077
Venus	61590-06-16 23:46 G	24216512.42	24216512.49	24216512.58	0.0088	0.0082
Venus	61591-01-28 12:29 G	24216738.00	24216738.02	24216738.09	0.0088	0.0086
Mars	61606-06-28 03:07 G	24222367.35	24222367.63	24222367.93	0.0088	0.0020
Mercury	61647-03-03 19:41 G	24237226.30	24237226.32	24237226.38	0.0088	0.0087
Mercury	61647-05-30 22:48 G	24237314.38	24237314.45	24237314.56	0.0088	0.0076
Mercury	61647-08-27 01:55 G	24237402.47	24237402.58	24237402.71	0.0088	0.0066
Mercury	61647-11-23 04:48 G	24237490.58	24237490.70	24237490.86	0.0088	0.0057
Mercury	61648-02-19 07:55 G	24237578.69	24237578.83	24237579.00	0.0088	0.0046
Mercury	61648-05-17 11:17 G	24237666.81	24237666.97	24237667.14	0.0088	0.0036

Mercury	61648-08-13 14:24 G	24237754.93	24237755.10	24237755.28	0.0088	0.0025
Mercury	61648-11-09 17:31 G	24237843.05	24237843.23	24237843.41	0.0088	0.0015
Mercury	61649-02-05 20:38 G	24237931.18	24237931.36	24237931.55	0.0088	0.0005
Mercury	61649-05-04 23:46 G	24238019.31	24238019.49	24238019.68	0.0088	0.0006
Mercury	61649-08-01 02:53 G	24238107.44	24238107.62	24238107.80	0.0088	0.0016
Mercury	61649-10-28 06:00 G	24238195.58	24238195.75	24238195.93	0.0088	0.0027
Mercury	61650-01-24 09:07 G	24238283.72	24238283.88	24238284.05	0.0088	0.0037
Mercury	61650-04-22 12:14 G	24238371.86	24238372.01	24238372.17	0.0088	0.0048
Mercury	61650-07-19 15:22 G	24238460.01	24238460.14	24238460.29	0.0088	0.0058
Mercury	61650-10-15 18:43 G	24238548.17	24238548.28	24238548.40	0.0088	0.0069
Mercury	61651-01-11 21:36 G	24238636.34	24238636.40	24238636.50	0.0088	0.0080
Venus	61652-10-27 18:58 G	24239291.27	24239291.29	24239291.36	0.0088	0.0087
Venus	61653-06-10 08:10 G	24239516.76	24239516.84	24239516.93	0.0088	0.0082
Moon	61653-11-13 09:22 G	24239672.73	24239672.89	24239673.11	0.0088	0.0062
Earth	61653-11-13 10:48 G	24239672.80	24239672.95	24239673.15	0.0088	0.0066 *
Venus	61654-01-21 20:24 G	24239742.27	24239742.35	24239742.49	0.0088	0.0078
Venus	61654-09-04 09:36 G	24239967.80	24239967.90	24239968.05	0.0088	0.0073
Earth	61654-11-15 22:19 G	24240040.21	24240040.43	24240040.69	0.0088	0.0036
Moon	61654-11-16 01:26 G	24240040.33	24240040.56	24240040.79	0.0088	0.0039 *
Venus	61655-04-17 22:34 G	24240193.31	24240193.44	24240193.60	0.0088	0.0068
Moon	61655-11-18 07:12 G	24240407.54	24240407.80	24240408.06	0.0088	0.0001
Earth	61655-11-18 10:19 G	24240407.67	24240407.93	24240408.19	0.0088	0.0005 *
Venus	61655-11-29 11:31 G	24240418.83	24240418.98	24240419.14	0.0088	0.0063
Venus	61656-07-12 00:14 G	24240644.35	24240644.51	24240644.69	0.0088	0.0058
Earth	61656-11-19 21:22 G	24240775.16	24240775.39	24240775.65	0.0088	0.0026
Moon	61656-11-20 01:12 G	24240775.31	24240775.55	24240775.81	0.0088	0.0021 *
Venus	61657-02-22 13:12 G	24240869.88	24240870.05	24240870.23	0.0088	0.0053
Venus	61657-10-06 01:55 G	24241095.41	24241095.58	24241095.77	0.0088	0.0048
Moon	61657-11-22 05:46 G	24241142.55	24241142.74	24241142.93	0.0088	0.0059
Earth	61657-11-22 09:07 G	24241142.68	24241142.88	24241143.08	0.0088	0.0055 *

Venus	61658-05-19 14:53 G	24241320.93	24241321.12	24241321.31	0.0088	0.0043
Earth	61658-11-24 20:24 G	24241510.28	24241510.35	24241510.42	0.0089	0.0085
Moon	61658-11-24 23:02 G	24241510.38	24241510.46	24241510.59	0.0089	0.0081 *
Venus	61658-12-31 03:36 G	24241546.46	24241546.65	24241546.85	0.0089	0.0038
Venus	61659-08-13 16:34 G	24241771.99	24241772.19	24241772.40	0.0089	0.0033
Venus	61660-03-26 05:17 G	24241997.52	24241997.72	24241997.94	0.0089	0.0028
Venus	61660-11-06 18:14 G	24242223.05	24242223.26	24242223.47	0.0089	0.0023
Venus	61661-06-20 06:58 G	24242448.58	24242448.79	24242449.01	0.0089	0.0018
Venus	61662-01-31 19:55 G	24242674.11	24242674.33	24242674.55	0.0089	0.0013
Venus	61662-09-14 08:53 G	24242899.66	24242899.87	24242900.09	0.0089	0.0008
Venus	61663-04-27 21:50 G	24243125.19	24243125.41	24243125.63	0.0089	0.0003
Venus	61663-12-09 10:48 G	24243350.73	24243350.95	24243351.17	0.0089	0.0003
Venus	61664-07-21 23:46 G	24243576.27	24243576.49	24243576.71	0.0089	0.0008
Venus	61665-03-04 12:43 G	24243801.81	24243802.03	24243802.24	0.0089	0.0013
Jupiter	61665-06-06 19:12 G	24243895.89	24243896.30	24243896.77	0.0089	0.0054
Venus	61665-10-16 01:41 G	24244027.36	24244027.57	24244027.79	0.0089	0.0018
Venus	61666-05-29 14:24 G	24244252.90	24244253.10	24244253.32	0.0089	0.0024
Venus	61667-01-10 03:22 G	24244478.44	24244478.64	24244478.86	0.0089	0.0029
Venus	61667-08-23 16:19 G	24244703.99	24244704.18	24244704.40	0.0089	0.0034
Venus	61668-04-05 05:17 G	24244929.54	24244929.72	24244929.93	0.0089	0.0039
Venus	61668-11-16 18:14 G	24245155.08	24245155.26	24245155.47	0.0089	0.0044
Venus	61669-06-30 07:12 G	24245380.63	24245380.80	24245381.00	0.0089	0.0049
Venus	61670-02-10 20:10 G	24245606.18	24245606.34	24245606.53	0.0089	0.0054
Venus	61670-09-24 09:07 G	24245831.74	24245831.88	24245832.06	0.0089	0.0059
Venus	61671-05-07 22:05 G	24246057.29	24246057.42	24246057.59	0.0089	0.0064
Venus	61671-12-19 11:02 G	24246282.84	24246282.96	24246283.12	0.0089	0.0069
Venus	61672-07-31 23:46 G	24246508.40	24246508.49	24246508.64	0.0089	0.0074
Venus	61673-03-14 13:12 G	24246733.96	24246734.05	24246734.16	0.0089	0.0078
Venus	61673-10-26 02:10 G	24246959.53	24246959.59	24246959.68	0.0089	0.0084
Venus	61674-06-08 15:07 G	24247185.12	24247185.13	24247185.18	0.0089	0.0088

Mars	61690-02-16 21:22 G	24252917.10	24252917.39	24252917.68	0.0090	0.0044
Mercury	61728-01-01 01:41 G	24266748.55	24266748.57	24266748.63	0.0089	0.0086
Mercury	61728-03-29 03:36 G	24266836.58	24266836.65	24266836.72	0.0089	0.0077
Mercury	61728-06-25 05:02 G	24266924.63	24266924.71	24266924.80	0.0089	0.0069
Mercury	61728-09-21 06:29 G	24267012.68	24267012.77	24267012.88	0.0089	0.0061
Mercury	61728-12-18 08:10 G	24267100.73	24267100.84	24267100.96	0.0089	0.0052
Mercury	61729-03-16 09:36 G	24267188.79	24267188.90	24267189.03	0.0089	0.0044
Mercury	61729-06-12 11:02 G	24267276.84	24267276.96	24267277.10	0.0089	0.0037
Mercury	61729-09-08 12:43 G	24267364.90	24267365.03	24267365.17	0.0089	0.0028
Mercury	61729-12-05 14:10 G	24267452.96	24267453.09	24267453.23	0.0089	0.0020
Mercury	61730-03-03 15:50 G	24267541.02	24267541.16	24267541.30	0.0089	0.0012
Mercury	61730-05-30 17:17 G	24267629.08	24267629.22	24267629.36	0.0089	0.0004
Mercury	61730-08-26 18:43 G	24267717.15	24267717.28	24267717.42	0.0089	0.0005
Mercury	61730-11-22 20:24 G	24267805.21	24267805.35	24267805.48	0.0089	0.0013
Mercury	61731-02-18 21:50 G	24267893.28	24267893.41	24267893.54	0.0089	0.0020
Mercury	61731-05-17 23:17 G	24267981.34	24267981.47	24267981.60	0.0089	0.0028
Mercury	61731-08-14 00:43 G	24268069.41	24268069.53	24268069.66	0.0089	0.0036
Mercury	61731-11-10 02:10 G	24268157.47	24268157.59	24268157.71	0.0089	0.0044
Mercury	61732-02-06 03:36 G	24268245.54	24268245.65	24268245.76	0.0089	0.0052
Mercury	61732-05-04 05:02 G	24268333.62	24268333.71	24268333.82	0.0089	0.0060
Mercury	61732-07-31 06:14 G	24268421.69	24268421.76	24268421.86	0.0089	0.0068
Mercury	61732-10-27 07:55 G	24268509.77	24268509.83	24268509.91	0.0089	0.0076
Mercury	61733-01-23 09:22 G	24268597.85	24268597.89	24268597.94	0.0089	0.0083
Venus	61733-09-20 18:43 G	24268838.27	24268838.28	24268838.34	0.0089	0.0088
Venus	61734-05-04 07:55 G	24269063.78	24269063.83	24269063.93	0.0089	0.0083
Earth	61734-05-11 21:07 G	24269071.35	24269071.38	24269071.48	0.0089	0.0086
Moon	61734-05-11 22:05 G	24269071.39	24269071.42	24269071.52	0.0089	0.0086 *
Venus	61734-12-15 21:07 G	24269289.30	24269289.38	24269289.51	0.0089	0.0079
Moon	61735-05-14 06:58 G	24269438.59	24269438.79	24269439.01	0.0089	0.0054
Earth	61735-05-14 09:22 G	24269438.70	24269438.89	24269439.11	0.0089	0.0055 *



Venus	61735-07-29 10:34 G	24269514.83	24269514.94	24269515.08	0.0089	0.0073
Venus	61736-03-11 00:00 G	24269740.37	24269740.50	24269740.65	0.0089	0.0068
Earth	61736-05-15 20:53 G	24269806.14	24269806.37	24269806.63	0.0089	0.0025
Moon	61736-05-15 23:46 G	24269806.26	24269806.49	24269806.75	0.0089	0.0025 *
Venus	61736-10-22 13:12 G	24269965.90	24269966.05	24269966.21	0.0089	0.0063
Moon	61737-05-18 05:31 G	24270173.47	24270173.73	24270173.99	0.0089	0.0005
Earth	61737-05-18 08:53 G	24270173.62	24270173.87	24270174.13	0.0089	0.0006 *
Venus	61737-06-05 02:24 G	24270191.44	24270191.60	24270191.77	0.0089	0.0058
Venus	61738-01-16 15:36 G	24270416.98	24270417.15	24270417.33	0.0089	0.0053
Earth	61738-05-20 20:38 G	24270541.13	24270541.36	24270541.60	0.0089	0.0036
Moon	61738-05-21 00:14 G	24270541.28	24270541.51	24270541.75	0.0089	0.0036 *
Venus	61738-08-30 04:48 G	24270642.52	24270642.70	24270642.89	0.0089	0.0048
Venus	61739-04-12 18:00 G	24270868.06	24270868.25	24270868.45	0.0089	0.0043
Moon	61739-05-23 05:02 G	24270908.56	24270908.71	24270908.89	0.0089	0.0066
Earth	61739-05-23 07:55 G	24270908.69	24270908.83	24270909.02	0.0089	0.0067 *
Venus	61739-11-24 07:12 G	24271093.61	24271093.80	24271094.00	0.0089	0.0038
Venus	61740-07-06 20:24 G	24271319.15	24271319.35	24271319.56	0.0089	0.0033
Venus	61741-02-17 09:36 G	24271544.70	24271544.90	24271545.12	0.0089	0.0028
Venus	61741-09-30 22:48 G	24271770.25	24271770.45	24271770.67	0.0089	0.0023
Venus	61742-05-14 12:00 G	24271995.79	24271996.00	24271996.22	0.0089	0.0018
Venus	61742-12-26 01:12 G	24272221.34	24272221.55	24272221.78	0.0089	0.0013
Venus	61743-08-08 14:24 G	24272446.89	24272447.10	24272447.33	0.0089	0.0008
Venus	61744-03-21 03:50 G	24272672.44	24272672.66	24272672.88	0.0089	0.0002
Venus	61744-11-01 17:02 G	24272897.99	24272898.21	24272898.43	0.0089	0.0003
Venus	61745-06-15 06:00 G	24273123.53	24273123.75	24273123.97	0.0089	0.0008
Venus	61746-01-26 18:58 G	24273349.08	24273349.29	24273349.52	0.0089	0.0014
Venus	61746-09-09 08:10 G	24273574.63	24273574.84	24273575.06	0.0089	0.0018
Venus	61747-04-22 21:22 G	24273800.18	24273800.39	24273800.61	0.0089	0.0024
Venus	61747-12-04 10:19 G	24274025.73	24274025.93	24274026.15	0.0089	0.0029
Venus	61748-07-16 23:17 G	24274251.27	24274251.47	24274251.68	0.0089	0.0034

Venus	61749-02-27 12:29 G	24274476.83	24274477.02	24274477.22	0.0088	0.0039
Venus	61749-10-11 01:26 G	24274702.38	24274702.56	24274702.76	0.0088	0.0044
Venus	61750-05-24 14:24 G	24274927.93	24274928.10	24274928.30	0.0088	0.0049
Venus	61751-01-05 03:22 G	24275153.48	24275153.64	24275153.83	0.0088	0.0054
Venus	61751-08-18 16:34 G	24275379.03	24275379.19	24275379.36	0.0088	0.0059
Venus	61752-03-31 05:31 G	24275604.59	24275604.73	24275604.90	0.0088	0.0064
Venus	61752-11-11 18:29 G	24275830.15	24275830.27	24275830.43	0.0088	0.0069
Venus	61753-06-25 07:26 G	24276055.71	24276055.81	24276055.95	0.0088	0.0074
Venus	61754-02-05 20:24 G	24276281.27	24276281.35	24276281.48	0.0088	0.0078
Venus	61754-09-19 09:50 G	24276506.84	24276506.91	24276506.99	0.0088	0.0083
Venus	61755-05-02 22:48 G	24276732.44	24276732.45	24276732.50	0.0088	0.0088
Mars	61770-02-11 12:29 G	24282130.90	24282131.02	24282131.21	0.0088	0.0075
Mars	61772-01-06 06:58 G	24282824.58	24282824.79	24282825.04	0.0088	0.0056
Mercury	61811-11-30 18:00 G	24297397.20	24297397.25	24297397.33	0.0088	0.0082
Mercury	61812-02-26 21:07 G	24297485.29	24297485.38	24297485.49	0.0088	0.0072
Mercury	61812-05-25 00:00 G	24297573.39	24297573.50	24297573.65	0.0088	0.0062
Mercury	61812-08-21 03:07 G	24297661.50	24297661.63	24297661.79	0.0088	0.0052
Mercury	61812-11-17 06:14 G	24297749.61	24297749.76	24297749.93	0.0088	0.0042
Mercury	61813-02-13 09:36 G	24297837.73	24297837.90	24297838.07	0.0088	0.0032
Mercury	61813-05-12 12:29 G	24297925.85	24297926.02	24297926.20	0.0088	0.0022
Mercury	61813-08-08 15:36 G	24298013.97	24298014.15	24298014.34	0.0088	0.0011
Mercury	61813-11-04 18:43 G	24298102.10	24298102.28	24298102.47	0.0088	0.0001
Mercury	61814-01-31 21:50 G	24298190.23	24298190.41	24298190.59	0.0088	0.0010
Mercury	61814-04-30 00:43 G	24298278.36	24298278.53	24298278.72	0.0088	0.0021
Mercury	61814-07-27 04:05 G	24298366.50	24298366.67	24298366.85	0.0088	0.0030
Mercury	61814-10-23 06:58 G	24298454.64	24298454.79	24298454.97	0.0088	0.0041
Mercury	61815-01-19 10:05 G	24298542.79	24298542.92	24298543.09	0.0088	0.0052
Mercury	61815-04-17 13:41 G	24298630.94	24298631.07	24298631.20	0.0088	0.0062
Mercury	61815-07-14 16:34 G	24298719.10	24298719.19	24298719.31	0.0088	0.0072
Mercury	61815-10-10 19:26 G	24298807.27	24298807.31	24298807.40	0.0088	0.0084

Venus	61817-01-31 05:02 G	24299285.65	24299285.71	24299285.77	0.0088	0.0085
Venus	61817-09-13 17:31 G	24299511.16	24299511.23	24299511.34	0.0088	0.0080
Earth	61817-11-14 18:00 G	24299573.17	24299573.25	24299573.37	0.0088	0.0081
Moon	61817-11-14 20:53 G	24299573.27	24299573.37	24299573.50	0.0088	0.0078 *
Venus	61818-04-27 06:29 G	24299736.67	24299736.77	24299736.90	0.0088	0.0076
Moon	61818-11-17 01:55 G	24299940.40	24299940.58	24299940.81	0.0088	0.0055
Earth	61818-11-17 05:46 G	24299940.55	24299940.74	24299940.97	0.0088	0.0051 *
Venus	61818-12-08 19:26 G	24299962.19	24299962.31	24299962.45	0.0088	0.0071
Venus	61819-07-22 08:24 G	24300187.71	24300187.85	24300188.00	0.0088	0.0066
Earth	61819-11-19 17:31 G	24300307.99	24300308.23	24300308.49	0.0088	0.0021
Moon	61819-11-19 21:07 G	24300308.13	24300308.38	24300308.64	0.0088	0.0018 *
Venus	61820-03-03 20:53 G	24300413.23	24300413.37	24300413.55	0.0088	0.0061
Venus	61820-10-15 09:50 G	24300638.76	24300638.91	24300639.10	0.0088	0.0056
Moon	61820-11-21 01:55 G	24300675.33	24300675.58	24300675.84	0.0088	0.0007
Earth	61820-11-21 05:31 G	24300675.47	24300675.73	24300675.98	0.0088	0.0010 *
Venus	61821-05-28 22:34 G	24300864.28	24300864.44	24300864.64	0.0088	0.0052
Earth	61821-11-23 16:48 G	24301042.97	24301043.20	24301043.43	0.0088	0.0040
Moon	61821-11-23 19:12 G	24301043.07	24301043.30	24301043.54	0.0088	0.0043 *
Venus	61822-01-09 11:31 G	24301089.81	24301089.98	24301090.18	0.0088	0.0047
Venus	61822-08-23 00:29 G	24301315.34	24301315.52	24301315.73	0.0088	0.0042
Moon	61822-11-26 02:24 G	24301410.46	24301410.60	24301410.77	0.0088	0.0068
Earth	61822-11-26 04:05 G	24301410.52	24301410.67	24301410.84	0.0088	0.0070 *
Venus	61823-04-05 13:26 G	24301540.87	24301541.06	24301541.27	0.0088	0.0037
Venus	61823-11-17 02:10 G	24301766.40	24301766.59	24301766.81	0.0089	0.0032
Venus	61824-06-29 15:07 G	24301991.93	24301992.13	24301992.35	0.0089	0.0026
Venus	61825-02-10 03:50 G	24302217.46	24302217.66	24302217.89	0.0089	0.0022
Venus	61825-09-23 16:48 G	24302443.00	24302443.20	24302443.43	0.0089	0.0017
Venus	61826-05-07 06:00 G	24302668.53	24302668.75	24302668.97	0.0089	0.0011
Venus	61826-12-18 18:43 G	24302894.07	24302894.28	24302894.50	0.0089	0.0006
Venus	61827-08-01 07:41 G	24303119.60	24303119.82	24303120.04	0.0089	0.0001

Venus	61828-03-13 20:38 G	24303345.14	24303345.36	24303345.58	0.0089	0.0004
Venus	61828-10-25 09:22 G	24303570.68	24303570.89	24303571.12	0.0089	0.0010
Venus	61829-06-07 22:19 G	24303796.22	24303796.43	24303796.65	0.0089	0.0015
Venus	61830-01-19 11:17 G	24304021.76	24304021.97	24304022.19	0.0089	0.0020
Venus	61830-09-02 00:14 G	24304247.31	24304247.51	24304247.73	0.0089	0.0025
Venus	61831-04-15 13:12 G	24304472.85	24304473.05	24304473.27	0.0089	0.0030
Venus	61831-11-27 02:10 G	24304698.40	24304698.59	24304698.80	0.0089	0.0035
Venus	61832-07-09 15:07 G	24304923.94	24304924.13	24304924.34	0.0089	0.0040
Venus	61833-02-20 04:05 G	24305149.49	24305149.67	24305149.87	0.0089	0.0045
Venus	61833-10-03 17:17 G	24305375.05	24305375.22	24305375.41	0.0089	0.0050
Venus	61834-05-17 06:14 G	24305600.60	24305600.76	24305600.94	0.0089	0.0055
Venus	61834-12-28 19:12 G	24305826.15	24305826.30	24305826.47	0.0089	0.0060
Venus	61835-08-11 07:55 G	24306051.70	24306051.83	24306052.00	0.0089	0.0065
Venus	61836-03-23 20:53 G	24306277.25	24306277.37	24306277.52	0.0089	0.0070
Venus	61836-11-04 09:50 G	24306502.82	24306502.91	24306503.05	0.0089	0.0075
Venus	61837-06-17 22:48 G	24306728.38	24306728.45	24306728.57	0.0089	0.0080
Venus	61838-01-29 12:00 G	24306953.95	24306954.00	24306954.08	0.0089	0.0084
Mars	61853-10-02 08:24 G	24312678.54	24312678.85	24312679.19	0.0089	0.0025
Mercury	61892-09-28 01:26 G	24326919.51	24326919.56	24326919.61	0.0089	0.0082
Mercury	61892-12-25 02:53 G	24327007.55	24327007.62	24327007.70	0.0089	0.0073
Mercury	61893-03-23 04:19 G	24327095.60	24327095.68	24327095.78	0.0089	0.0065
Mercury	61893-06-19 05:46 G	24327183.65	24327183.74	24327183.86	0.0089	0.0058
Mercury	61893-09-15 07:26 G	24327271.70	24327271.81	24327271.93	0.0089	0.0049
Mercury	61893-12-12 08:53 G	24327359.76	24327359.87	24327360.00	0.0089	0.0041
Mercury	61894-03-10 10:34 G	24327447.82	24327447.94	24327448.07	0.0089	0.0033
Mercury	61894-06-06 12:14 G	24327535.87	24327536.01	24327536.14	0.0089	0.0024
Mercury	61894-09-02 13:41 G	24327623.93	24327624.07	24327624.21	0.0089	0.0016
Mercury	61894-11-29 15:07 G	24327712.00	24327712.13	24327712.27	0.0089	0.0009
Mercury	61895-02-25 16:48 G	24327800.06	24327800.20	24327800.33	0.0089	0.0002
Mercury	61895-05-24 18:14 G	24327888.12	24327888.26	24327888.40	0.0089	0.0008

Mercury	61895-08-20 19:41 G	24327976.19	24327976.32	24327976.46	0.0089	0.0016
Mercury	61895-11-16 21:07 G	24328064.25	24328064.38	24328064.52	0.0089	0.0024
Mercury	61896-02-12 22:34 G	24328152.32	24328152.44	24328152.57	0.0089	0.0032
Mercury	61896-05-11 00:00 G	24328240.39	24328240.50	24328240.63	0.0089	0.0040
Mercury	61896-08-07 01:41 G	24328328.45	24328328.57	24328328.68	0.0089	0.0048
Mercury	61896-11-03 03:07 G	24328416.52	24328416.63	24328416.74	0.0089	0.0055
Mercury	61897-01-30 04:34 G	24328504.60	24328504.69	24328504.79	0.0089	0.0063
Mercury	61897-04-28 05:46 G	24328592.67	24328592.74	24328592.83	0.0089	0.0071
Mercury	61897-07-25 07:12 G	24328680.75	24328680.80	24328680.87	0.0089	0.0079
Mercury	61897-10-21 08:38 G	24328768.85	24328768.86	24328768.90	0.0089	0.0087
Venus	61897-12-24 04:19 G	24328832.65	24328832.68	24328832.76	0.0089	0.0087
Venus	61898-08-06 17:46 G	24329058.17	24329058.24	24329058.35	0.0089	0.0081
Venus	61899-03-20 07:26 G	24329283.71	24329283.81	24329283.93	0.0089	0.0076
Earth	61899-05-14 17:17 G	24329339.08	24329339.22	24329339.40	0.0089	0.0070
Moon	61899-05-14 20:38 G	24329339.25	24329339.36	24329339.52	0.0089	0.0076 *
Venus	61899-10-31 20:38 G	24329509.24	24329509.36	24329509.50	0.0089	0.0071
Moon	61900-05-17 01:55 G	24329706.35	24329706.58	24329706.82	0.0089	0.0035
Earth	61900-05-17 05:02 G	24329706.50	24329706.71	24329706.96	0.0089	0.0040 *
Venus	61900-06-14 10:05 G	24329734.77	24329734.92	24329735.06	0.0089	0.0066
Venus	61901-01-25 22:34 G	24329960.31	24329960.44	24329960.63	0.0089	0.0062
Earth	61901-05-19 17:02 G	24330073.96	24330074.21	24330074.47	0.0089	0.0009
Moon	61901-05-19 20:38 G	24330074.11	24330074.36	24330074.62	0.0089	0.0014 *
Venus	61901-09-08 12:00 G	24330185.85	24330186.00	24330186.19	0.0089	0.0057
Venus	61902-04-22 01:12 G	24330411.39	24330411.55	24330411.75	0.0089	0.0052
Moon	61902-05-22 01:55 G	24330441.35	24330441.58	24330441.83	0.0089	0.0026
Earth	61902-05-22 04:48 G	24330441.46	24330441.70	24330441.96	0.0089	0.0021 *
Venus	61902-12-03 14:24 G	24330636.93	24330637.10	24330637.30	0.0089	0.0047
Earth	61903-05-24 16:05 G	24330808.98	24330809.17	24330809.40	0.0089	0.0052
Moon	61903-05-24 18:14 G	24330809.04	24330809.26	24330809.49	0.0089	0.0047 *
Venus	61903-07-17 03:36 G	24330862.47	24330862.65	24330862.86	0.0089	0.0042

Venus	61904-02-27 17:17 G	24331088.02	24331088.22	24331088.42	0.0089	0.0036
Earth	61904-05-26 03:50 G	24331176.58	24331176.66	24331176.78	0.0089	0.0082
Moon	61904-05-26 02:38 G	24331176.59	24331176.61	24331176.69	0.0089	0.0087 *
Venus	61904-10-10 06:29 G	24331313.56	24331313.77	24331313.97	0.0089	0.0031
Venus	61905-05-23 19:26 G	24331539.10	24331539.31	24331539.52	0.0089	0.0026
Venus	61906-01-04 08:38 G	24331764.65	24331764.86	24331765.08	0.0089	0.0021
Venus	61906-08-17 21:50 G	24331990.19	24331990.41	24331990.63	0.0089	0.0016
Venus	61907-03-31 11:02 G	24332215.75	24332215.96	24332216.19	0.0089	0.0011
Venus	61907-11-12 00:14 G	24332441.29	24332441.51	24332441.74	0.0089	0.0006
Venus	61908-06-24 13:26 G	24332666.84	24332667.06	24332667.28	0.0089	0.0001
Venus	61909-02-05 02:38 G	24332892.39	24332892.61	24332892.83	0.0089	0.0005
Venus	61909-09-18 15:50 G	24333117.94	24333118.16	24333118.38	0.0089	0.0010
Venus	61910-05-02 05:02 G	24333343.49	24333343.71	24333343.93	0.0089	0.0015
Venus	61910-12-13 17:46 G	24333569.04	24333569.24	24333569.47	0.0089	0.0021
Venus	61911-07-27 06:58 G	24333794.59	24333794.79	24333795.01	0.0089	0.0025
Venus	61912-03-08 19:55 G	24334020.14	24334020.33	24334020.56	0.0089	0.0031
Venus	61912-10-20 09:07 G	24334245.69	24334245.88	24334246.09	0.0089	0.0036
Venus	61913-06-02 22:05 G	24334471.24	24334471.42	24334471.63	0.0089	0.0041
Venus	61914-01-14 11:02 G	24334696.79	24334696.96	24334697.16	0.0088	0.0046
Venus	61914-08-28 00:00 G	24334922.34	24334922.50	24334922.70	0.0088	0.0051
Venus	61915-04-10 12:58 G	24335147.89	24335148.04	24335148.24	0.0088	0.0056
Venus	61915-11-22 02:24 G	24335373.45	24335373.60	24335373.77	0.0088	0.0060
Venus	61916-07-04 15:22 G	24335599.00	24335599.14	24335599.30	0.0088	0.0065
Venus	61917-02-15 04:05 G	24335824.55	24335824.67	24335824.82	0.0088	0.0070
Venus	61917-09-28 17:02 G	24336050.11	24336050.21	24336050.35	0.0088	0.0075
Venus	61918-05-12 06:00 G	24336275.68	24336275.75	24336275.88	0.0088	0.0080
Venus	61918-12-23 19:26 G	24336501.25	24336501.31	24336501.39	0.0088	0.0084
Venus	61919-08-06 08:38 G	24336726.86	24336726.86	24336726.86	0.0088	0.0088
Mars	61935-08-23 17:02 G	24342587.91	24342588.21	24342588.50	0.0088	0.0001
Mercury	61976-08-27 16:19 G	24357568.11	24357568.18	24357568.27	0.0088	0.0078

Mercury	61976-11-23 19:12 G	24357656.20	24357656.30	24357656.43	0.0088	0.0068
Mercury	61977-02-19 22:19 G	24357744.30	24357744.43	24357744.57	0.0088	0.0058
Mercury	61977-05-19 01:12 G	24357832.41	24357832.55	24357832.72	0.0088	0.0049
Mercury	61977-08-15 04:19 G	24357920.53	24357920.68	24357920.85	0.0088	0.0038
Mercury	61977-11-11 07:26 G	24358008.64	24358008.81	24358008.99	0.0088	0.0028
Mercury	61978-02-07 10:34 G	24358096.76	24358096.94	24358097.12	0.0088	0.0018
Mercury	61978-05-06 13:41 G	24358184.89	24358185.07	24358185.26	0.0088	0.0008
Mercury	61978-08-02 16:48 G	24358273.02	24358273.20	24358273.38	0.0088	0.0003
Mercury	61978-10-29 19:55 G	24358361.15	24358361.33	24358361.51	0.0088	0.0013
Mercury	61979-01-25 23:02 G	24358449.28	24358449.46	24358449.64	0.0088	0.0023
Mercury	61979-04-24 01:55 G	24358537.42	24358537.58	24358537.76	0.0088	0.0034
Mercury	61979-07-21 05:02 G	24358625.56	24358625.71	24358625.88	0.0088	0.0044
Mercury	61979-10-17 08:24 G	24358713.71	24358713.85	24358714.00	0.0088	0.0055
Mercury	61980-01-13 11:17 G	24358801.86	24358801.97	24358802.11	0.0088	0.0065
Mercury	61980-04-10 14:38 G	24358890.02	24358890.11	24358890.21	0.0088	0.0076
Mercury	61980-07-07 17:31 G	24358978.21	24358978.23	24358978.28	0.0088	0.0087
Venus	61980-09-22 01:41 G	24359054.56	24359054.57	24359054.60	0.0088	0.0088
Venus	61981-05-05 14:10 G	24359280.04	24359280.09	24359280.18	0.0088	0.0083
Venus	61981-12-17 03:07 G	24359505.54	24359505.63	24359505.74	0.0088	0.0078
Venus	61982-07-30 16:05 G	24359731.06	24359731.17	24359731.30	0.0088	0.0074
Earth	61982-11-17 12:14 G	24359840.87	24359841.01	24359841.21	0.0088	0.0067
Moon	61982-11-17 15:50 G	24359841.01	24359841.16	24359841.37	0.0088	0.0064 *
Venus	61983-03-13 04:34 G	24359956.57	24359956.69	24359956.85	0.0088	0.0069
Venus	61983-10-24 17:17 G	24360182.09	24360182.22	24360182.39	0.0088	0.0065
Moon	61983-11-19 21:22 G	24360208.18	24360208.39	24360208.64	0.0088	0.0039
Earth	61983-11-20 00:00 G	24360208.29	24360208.50	24360208.76	0.0088	0.0037 *
Venus	61984-06-06 06:14 G	24360407.62	24360407.76	24360407.94	0.0088	0.0060
Earth	61984-11-21 12:00 G	24360575.74	24360576.00	24360576.26	0.0088	0.0006
Moon	61984-11-21 14:24 G	24360575.83	24360576.10	24360576.36	0.0088	0.0003 *
Venus	61985-01-17 19:12 G	24360633.14	24360633.30	24360633.48	0.0088	0.0055

Venus	61985-08-31 08:10 G	24360858.67	24360858.84	24360859.03	0.0088	0.0050
Moon	61985-11-23 22:34 G	24360943.21	24360943.44	24360943.69	0.0088	0.0021
Earth	61985-11-23 23:02 G	24360943.23	24360943.46	24360943.73	0.0088	0.0025 *
Venus	61986-04-13 21:07 G	24361084.20	24361084.38	24361084.58	0.0088	0.0045
Venus	61986-11-25 10:05 G	24361309.73	24361309.92	24361310.12	0.0088	0.0040
Moon	61986-11-26 10:05 G	24361310.73	24361310.92	24361311.14	0.0088	0.0057
Earth	61986-11-26 11:02 G	24361310.76	24361310.96	24361311.16	0.0088	0.0054 *
Venus	61987-07-08 22:48 G	24361535.25	24361535.45	24361535.66	0.0088	0.0035
Earth	61987-11-28 21:50 G	24361678.36	24361678.41	24361678.52	0.0088	0.0085
Moon	61987-11-28 23:31 G	24361678.40	24361678.48	24361678.60	0.0088	0.0081 *
Venus	61988-02-19 11:46 G	24361760.78	24361760.99	24361761.20	0.0088	0.0030
Venus	61988-10-02 00:29 G	24361986.32	24361986.52	24361986.74	0.0089	0.0025
Venus	61989-05-15 13:26 G	24362211.85	24362212.06	24362212.28	0.0089	0.0020
Venus	61989-12-27 02:10 G	24362437.38	24362437.59	24362437.82	0.0089	0.0015
Venus	61990-08-09 15:07 G	24362662.92	24362663.13	24362663.35	0.0089	0.0010
Venus	61991-03-23 04:05 G	24362888.45	24362888.67	24362888.89	0.0089	0.0005
Venus	61991-11-03 17:02 G	24363113.99	24363114.21	24363114.43	0.0089	0.0002
Venus	61992-06-16 05:46 G	24363339.52	24363339.74	24363339.96	0.0089	0.0006
Venus	61993-01-27 18:29 G	24363565.06	24363565.27	24363565.49	0.0089	0.0011
Venus	61993-09-10 07:26 G	24363790.60	24363790.81	24363791.03	0.0089	0.0016
Venus	61994-04-23 20:24 G	24364016.14	24364016.35	24364016.57	0.0089	0.0021
Venus	61994-12-05 09:22 G	24364241.68	24364241.89	24364242.10	0.0089	0.0026
Venus	61995-07-18 22:19 G	24364467.23	24364467.43	24364467.64	0.0089	0.0031
Venus	61996-02-29 11:02 G	24364692.77	24364692.96	24364693.17	0.0089	0.0036
Venus	61996-10-12 00:14 G	24364918.32	24364918.51	24364918.71	0.0089	0.0041
Venus	61997-05-25 13:12 G	24365143.87	24365144.05	24365144.25	0.0089	0.0046
Venus	61998-01-06 02:10 G	24365369.42	24365369.59	24365369.78	0.0089	0.0051
Venus	61998-08-19 15:07 G	24365594.97	24365595.13	24365595.31	0.0089	0.0056
Venus	61999-04-02 04:05 G	24365820.53	24365820.67	24365820.84	0.0089	0.0061
Venus	61999-11-13 17:17 G	24366046.08	24366046.22	24366046.38	0.0089	0.0066



Venus 62000-06-26 06:00 G 24366271.64 24366271.75 24366271.90 0.0089 0.0071

# 63RD MILLENNIUM CE

**This is a list of transits visible from Neptune in the 63rd millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	62001-02-06 18:58	G	24366497.20	24366497.29	24366497.43	0.0089	0.0076	
Venus	62001-09-20 08:38	G	24366722.77	24366722.86	24366722.95	0.0089	0.0080	
Venus	62002-05-03 21:22	G	24366948.34	24366948.39	24366948.46	0.0089	0.0085	
Mars	62019-04-12 20:53	G	24373136.16	24373136.37	24373136.63	0.0090	0.0065	
Mercury	62057-03-29 22:48	G	24387002.43	24387002.45	24387002.49	0.0089	0.0087	
Mercury	62057-06-26 00:43	G	24387090.46	24387090.53	24387090.59	0.0089	0.0079	
Mercury	62057-09-22 02:10	G	24387178.51	24387178.59	24387178.68	0.0089	0.0071	
Mercury	62057-12-19 03:36	G	24387266.56	24387266.65	24387266.76	0.0089	0.0063	
Mercury	62058-03-17 05:02	G	24387354.61	24387354.71	24387354.83	0.0089	0.0055	
Mercury	62058-06-13 06:43	G	24387442.67	24387442.78	24387442.90	0.0089	0.0046	
Mercury	62058-09-09 08:10	G	24387530.72	24387530.84	24387530.97	0.0089	0.0038	
Mercury	62058-12-06 09:50	G	24387618.78	24387618.91	24387619.04	0.0089	0.0030	
Mercury	62059-03-04 11:17	G	24387706.84	24387706.97	24387707.11	0.0089	0.0022	
Mercury	62059-05-31 12:58	G	24387794.90	24387795.04	24387795.18	0.0089	0.0014	
Mercury	62059-08-27 14:24	G	24387882.96	24387883.10	24387883.24	0.0089	0.0006	
Mercury	62059-11-23 15:50	G	24387971.03	24387971.16	24387971.30	0.0089	0.0004	
Mercury	62060-02-19 17:31	G	24388059.09	24388059.23	24388059.36	0.0089	0.0011	

Mercury	62060-05-17 18:58 G	24388147.16	24388147.29	24388147.42	0.0089	0.0018
Mercury	62060-08-13 20:24 G	24388235.22	24388235.35	24388235.48	0.0089	0.0026
Mercury	62060-11-09 21:50 G	24388323.29	24388323.41	24388323.54	0.0089	0.0035
Mercury	62061-02-05 23:17 G	24388411.36	24388411.47	24388411.60	0.0089	0.0043
Mercury	62061-05-05 00:43 G	24388499.43	24388499.53	24388499.65	0.0089	0.0050
Mercury	62061-08-01 02:10 G	24388587.50	24388587.59	24388587.70	0.0089	0.0058
Venus	62061-08-15 00:43 G	24388601.53	24388601.53	24388601.53	0.0089	0.0089
Mercury	62061-10-28 03:36 G	24388675.57	24388675.65	24388675.75	0.0089	0.0066
Mercury	62062-01-24 05:02 G	24388763.65	24388763.71	24388763.80	0.0089	0.0074
Venus	62062-03-28 13:41 G	24388827.02	24388827.07	24388827.15	0.0089	0.0085
Mercury	62062-04-22 06:43 G	24388851.73	24388851.78	24388851.83	0.0089	0.0082
Venus	62062-11-09 03:22 G	24389052.54	24389052.64	24389052.74	0.0089	0.0079
Moon	62063-05-14 20:24 G	24389239.34	24389239.35	24389239.42	0.0089	0.0088
Earth	62063-05-15 00:14 G	24389239.47	24389239.51	24389239.60	0.0089	0.0086
Venus	62063-06-22 16:05 G	24389278.07	24389278.17	24389278.31	0.0089	0.0075
Venus	62064-02-03 05:17 G	24389503.61	24389503.72	24389503.88	0.0089	0.0070
Earth	62064-05-16 12:14 G	24389606.82	24389607.01	24389607.22	0.0089	0.0055
Moon	62064-05-16 14:53 G	24389606.93	24389607.12	24389607.35	0.0089	0.0054 *
Venus	62064-09-15 18:43 G	24389729.15	24389729.28	24389729.45	0.0089	0.0065
Venus	62065-04-29 07:55 G	24389954.69	24389954.83	24389955.01	0.0089	0.0060
Moon	62065-05-18 21:22 G	24389974.17	24389974.39	24389974.65	0.0089	0.0026
Earth	62065-05-19 00:00 G	24389974.26	24389974.50	24389974.76	0.0089	0.0025 *
Venus	62065-12-10 21:07 G	24390180.23	24390180.38	24390180.57	0.0089	0.0055
Earth	62066-05-21 11:46 G	24390341.74	24390341.99	24390342.26	0.0089	0.0006
Moon	62066-05-21 13:12 G	24390341.79	24390342.05	24390342.32	0.0089	0.0007 *
Venus	62066-07-24 10:34 G	24390405.77	24390405.94	24390406.13	0.0089	0.0050
Venus	62067-03-06 23:46 G	24390631.31	24390631.49	24390631.69	0.0089	0.0045
Earth	62067-05-23 23:17 G	24390709.25	24390709.47	24390709.72	0.0089	0.0036
Moon	62067-05-23 23:31 G	24390709.27	24390709.48	24390709.72	0.0089	0.0035 *
Venus	62067-10-18 12:58 G	24390856.86	24390857.04	24390857.25	0.0089	0.0040

Moon	62068-05-25 09:50 G	24391076.76	24391076.91	24391077.11	0.0089	0.0067
Earth	62068-05-25 10:48 G	24391076.81	24391076.95	24391077.14	0.0089	0.0067 *
Venus	62068-05-31 02:10 G	24391082.40	24391082.59	24391082.80	0.0089	0.0035
Venus	62069-01-11 15:22 G	24391307.94	24391308.14	24391308.35	0.0089	0.0030
Venus	62069-08-25 04:34 G	24391533.48	24391533.69	24391533.91	0.0089	0.0025
Venus	62070-04-07 17:46 G	24391759.03	24391759.24	24391759.46	0.0089	0.0020
Venus	62070-11-19 06:58 G	24391984.58	24391984.79	24391985.01	0.0089	0.0015
Venus	62071-07-02 20:10 G	24392210.12	24392210.34	24392210.56	0.0089	0.0010
Venus	62072-02-13 09:22 G	24392435.67	24392435.89	24392436.11	0.0089	0.0005
Venus	62072-09-25 22:34 G	24392661.22	24392661.44	24392661.67	0.0089	0.0002
Venus	62073-05-09 11:46 G	24392886.77	24392886.99	24392887.22	0.0089	0.0006
Venus	62073-12-21 00:58 G	24393112.32	24393112.54	24393112.76	0.0089	0.0011
Jupiter	62074-02-22 15:50 G	24393175.74	24393176.16	24393176.64	0.0089	0.0047
Venus	62074-08-03 13:55 G	24393337.87	24393338.08	24393338.31	0.0089	0.0017
Venus	62075-03-17 03:22 G	24393563.43	24393563.64	24393563.86	0.0089	0.0021
Venus	62075-10-28 16:19 G	24393788.98	24393789.18	24393789.40	0.0089	0.0027
Venus	62076-06-10 05:31 G	24394014.53	24394014.73	24394014.94	0.0089	0.0032
Venus	62077-01-21 18:29 G	24394240.08	24394240.27	24394240.48	0.0089	0.0037
Venus	62077-09-04 07:41 G	24394465.63	24394465.82	24394466.02	0.0088	0.0042
Venus	62078-04-17 20:53 G	24394691.19	24394691.37	24394691.57	0.0088	0.0047
Venus	62078-11-29 09:50 G	24394916.74	24394916.91	24394917.10	0.0088	0.0052
Venus	62079-07-12 22:48 G	24395142.30	24395142.45	24395142.63	0.0088	0.0057
Venus	62080-02-23 11:46 G	24395367.85	24395367.99	24395368.17	0.0088	0.0062
Venus	62080-10-06 00:43 G	24395593.40	24395593.53	24395593.70	0.0088	0.0066
Venus	62081-05-19 14:10 G	24395818.96	24395819.09	24395819.23	0.0088	0.0071
Venus	62081-12-31 02:53 G	24396044.52	24396044.62	24396044.75	0.0088	0.0076
Venus	62082-08-13 15:36 G	24396270.09	24396270.15	24396270.27	0.0088	0.0081
Venus	62083-03-27 05:17 G	24396495.66	24396495.72	24396495.78	0.0088	0.0085
Mars	62099-04-07 22:48 G	24402351.25	24402351.45	24402351.71	0.0088	0.0056
Mars	62101-03-02 18:43 G	24403045.17	24403045.28	24403045.47	0.0088	0.0076

Mercury	62141-02-26 11:02 G	24417650.93	24417650.96	24417651.01	0.0088	0.0085
Mercury	62141-05-25 13:55 G	24417739.00	24417739.08	24417739.19	0.0088	0.0076
Mercury	62141-08-21 17:02 G	24417827.10	24417827.21	24417827.34	0.0088	0.0065
Mercury	62141-11-17 20:10 G	24417915.20	24417915.34	24417915.49	0.0088	0.0055
Mercury	62142-02-13 23:02 G	24418003.31	24418003.46	24418003.63	0.0088	0.0045
Mercury	62142-05-13 02:10 G	24418091.43	24418091.59	24418091.76	0.0088	0.0035
Mercury	62142-08-09 05:17 G	24418179.55	24418179.72	24418179.90	0.0088	0.0025
Mercury	62142-11-05 08:10 G	24418267.67	24418267.84	24418268.03	0.0088	0.0016
Mercury	62143-02-01 11:31 G	24418355.79	24418355.98	24418356.16	0.0088	0.0005
Mercury	62143-04-30 14:24 G	24418443.92	24418444.10	24418444.29	0.0088	0.0006
Mercury	62143-07-27 17:31 G	24418532.05	24418532.23	24418532.42	0.0088	0.0016
Mercury	62143-10-23 20:38 G	24418620.19	24418620.36	24418620.54	0.0088	0.0026
Mercury	62144-01-19 23:31 G	24418708.33	24418708.48	24418708.66	0.0088	0.0037
Mercury	62144-04-17 02:38 G	24418796.47	24418796.61	24418796.78	0.0088	0.0048
Mercury	62144-07-14 06:00 G	24418884.62	24418884.75	24418884.89	0.0088	0.0058
Mercury	62144-10-10 08:53 G	24418972.77	24418972.87	24418973.00	0.0088	0.0068
Venus	62144-12-25 10:19 G	24419048.91	24419048.93	24419049.00	0.0088	0.0087
Mercury	62145-01-06 12:14 G	24419060.94	24419061.01	24419061.10	0.0088	0.0079
Venus	62145-08-07 23:31 G	24419274.41	24419274.48	24419274.57	0.0088	0.0081
Venus	62146-03-21 12:00 G	24419499.91	24419500.00	24419500.13	0.0088	0.0077
Venus	62146-11-02 00:43 G	24419725.43	24419725.53	24419725.68	0.0088	0.0073
Moon	62146-11-17 15:50 G	24419741.07	24419741.16	24419741.30	0.0088	0.0078
Earth	62146-11-17 18:14 G	24419741.20	24419741.26	24419741.39	0.0088	0.0083 *
Venus	62147-06-15 13:41 G	24419950.94	24419951.07	24419951.22	0.0088	0.0068
Earth	62147-11-20 06:00 G	24420108.56	24420108.75	24420108.98	0.0088	0.0053
Moon	62147-11-20 06:58 G	24420108.61	24420108.79	24420109.03	0.0088	0.0057 *
Venus	62148-01-27 02:38 G	24420176.46	24420176.61	24420176.77	0.0088	0.0063
Venus	62148-09-08 15:07 G	24420401.99	24420402.13	24420402.32	0.0088	0.0059
Moon	62148-11-21 17:31 G	24420475.99	24420476.23	24420476.48	0.0088	0.0019
Earth	62148-11-21 17:46 G	24420476.00	24420476.24	24420476.50	0.0088	0.0022 *

Venus	62149-04-22 04:05 G	24420627.51	24420627.67	24420627.86	0.0088	0.0054
Moon	62149-11-24 04:19 G	24420843.42	24420843.68	24420843.95	0.0088	0.0004
Earth	62149-11-24 05:17 G	24420843.47	24420843.72	24420843.99	0.0088	0.0009 *
Venus	62149-12-03 17:02 G	24420853.04	24420853.21	24420853.41	0.0088	0.0048
Venus	62150-07-17 05:46 G	24421078.56	24421078.74	24421078.95	0.0088	0.0044
Earth	62150-11-26 16:34 G	24421210.98	24421211.19	24421211.45	0.0088	0.0039
Moon	62150-11-26 19:12 G	24421211.09	24421211.30	24421211.54	0.0088	0.0042 *
Venus	62151-02-27 18:43 G	24421304.09	24421304.28	24421304.49	0.0088	0.0039
Venus	62151-10-11 07:41 G	24421529.63	24421529.82	24421530.03	0.0088	0.0034
Moon	62151-11-29 01:12 G	24421578.40	24421578.55	24421578.76	0.0088	0.0065
Earth	62151-11-29 04:05 G	24421578.54	24421578.67	24421578.86	0.0088	0.0069 *
Venus	62152-05-23 20:38 G	24421755.16	24421755.36	24421755.58	0.0088	0.0028
Venus	62153-01-04 09:22 G	24421980.69	24421980.89	24421981.11	0.0088	0.0024
Venus	62153-08-17 22:19 G	24422206.23	24422206.43	24422206.66	0.0088	0.0019
Venus	62154-03-31 11:17 G	24422431.76	24422431.97	24422432.19	0.0089	0.0014
Venus	62154-11-12 00:14 G	24422657.29	24422657.51	24422657.73	0.0089	0.0008
Venus	62155-06-25 12:58 G	24422882.83	24422883.04	24422883.27	0.0089	0.0004
Venus	62156-02-06 01:55 G	24423108.36	24423108.58	24423108.80	0.0089	0.0002
Venus	62156-09-18 14:53 G	24423333.90	24423334.12	24423334.34	0.0089	0.0007
Venus	62157-05-02 03:50 G	24423559.44	24423559.66	24423559.88	0.0089	0.0012
Venus	62157-12-13 16:34 G	24423784.98	24423785.19	24423785.41	0.0089	0.0017
Venus	62158-07-27 05:17 G	24424010.51	24424010.72	24424010.94	0.0089	0.0022
Venus	62159-03-09 18:14 G	24424236.05	24424236.26	24424236.47	0.0089	0.0027
Venus	62159-10-21 07:12 G	24424461.60	24424461.80	24424462.01	0.0089	0.0032
Venus	62160-06-02 20:10 G	24424687.14	24424687.34	24424687.54	0.0089	0.0037
Venus	62161-01-14 08:53 G	24424912.69	24424912.87	24424913.07	0.0089	0.0042
Venus	62161-08-27 22:05 G	24425138.24	24425138.42	24425138.61	0.0089	0.0047
Venus	62162-04-10 10:48 G	24425363.78	24425363.95	24425364.14	0.0089	0.0052
Venus	62162-11-21 23:46 G	24425589.34	24425589.49	24425589.67	0.0089	0.0057
Venus	62163-07-05 12:43 G	24425814.89	24425815.03	24425815.20	0.0089	0.0062

Venus	62164-02-16 01:41 G	24426040.44	24426040.57	24426040.73	0.0089	0.0067
Venus	62164-09-28 14:38 G	24426266.00	24426266.11	24426266.26	0.0089	0.0072
Venus	62165-05-12 03:36 G	24426491.57	24426491.65	24426491.79	0.0089	0.0077
Venus	62165-12-23 17:02 G	24426717.13	24426717.21	24426717.30	0.0089	0.0081
Venus	62166-08-06 05:46 G	24426942.70	24426942.74	24426942.81	0.0089	0.0086
Mars	62182-11-25 07:55 G	24432897.50	24432897.83	24432898.17	0.0090	0.0006
Mercury	62221-12-26 22:05 G	24447173.38	24447173.42	24447173.47	0.0089	0.0084
Mercury	62222-03-24 23:31 G	24447261.42	24447261.48	24447261.56	0.0089	0.0076
Mercury	62222-06-21 00:58 G	24447349.47	24447349.54	24447349.65	0.0089	0.0069
Mercury	62222-09-17 02:53 G	24447437.52	24447437.62	24447437.72	0.0089	0.0060
Mercury	62222-12-14 04:19 G	24447525.57	24447525.68	24447525.80	0.0089	0.0052
Mercury	62223-03-12 06:00 G	24447613.63	24447613.75	24447613.87	0.0089	0.0043
Mercury	62223-06-08 07:26 G	24447701.69	24447701.81	24447701.94	0.0089	0.0035
Mercury	62223-09-04 08:53 G	24447789.75	24447789.87	24447790.01	0.0089	0.0028
Mercury	62223-12-01 10:34 G	24447877.81	24447877.94	24447878.08	0.0089	0.0019
Mercury	62224-02-27 12:00 G	24447965.87	24447966.00	24447966.14	0.0089	0.0012
Mercury	62224-05-25 13:41 G	24448053.93	24448054.07	24448054.21	0.0089	0.0003
Mercury	62224-08-21 15:07 G	24448141.99	24448142.13	24448142.27	0.0089	0.0005
Mercury	62224-11-17 16:34 G	24448230.06	24448230.19	24448230.33	0.0089	0.0013
Mercury	62225-02-13 18:00 G	24448318.12	24448318.25	24448318.39	0.0089	0.0022
Mercury	62225-05-12 19:26 G	24448406.19	24448406.31	24448406.45	0.0089	0.0030
Mercury	62225-08-08 20:53 G	24448494.26	24448494.37	24448494.51	0.0089	0.0038
Mercury	62225-11-04 22:19 G	24448582.32	24448582.43	24448582.56	0.0089	0.0046
Venus	62225-11-18 09:22 G	24448595.86	24448595.89	24448595.93	0.0089	0.0088
Mercury	62226-01-31 23:46 G	24448670.39	24448670.49	24448670.61	0.0089	0.0054
Mercury	62226-04-30 01:12 G	24448758.47	24448758.55	24448758.67	0.0089	0.0061
Venus	62226-07-01 22:05 G	24448821.37	24448821.42	24448821.52	0.0089	0.0083
Mercury	62226-07-27 03:07 G	24448846.54	24448846.63	24448846.71	0.0089	0.0068
Mercury	62226-10-23 04:19 G	24448934.62	24448934.68	24448934.76	0.0089	0.0076
Mercury	62227-01-19 05:46 G	24449022.71	24449022.74	24449022.79	0.0089	0.0084

Venus	62227-02-12 11:46 G	24449046.90	24449046.99	24449047.11	0.0089	0.0078
Venus	62227-09-26 00:58 G	24449272.44	24449272.54	24449272.68	0.0089	0.0074
Venus	62228-05-08 14:24 G	24449497.97	24449498.10	24449498.25	0.0089	0.0068
Moon	62228-05-17 17:31 G	24449507.11	24449507.23	24449507.37	0.0089	0.0075
Earth	62228-05-17 18:43 G	24449507.15	24449507.28	24449507.45	0.0089	0.0071 *
Venus	62228-12-20 03:50 G	24449723.51	24449723.66	24449723.82	0.0089	0.0063
Earth	62229-05-20 06:29 G	24449874.56	24449874.77	24449875.02	0.0089	0.0041
Moon	62229-05-20 07:12 G	24449874.58	24449874.80	24449875.06	0.0089	0.0037 *
Venus	62229-08-02 17:02 G	24449949.05	24449949.21	24449949.38	0.0089	0.0058
Venus	62230-03-16 06:29 G	24450174.60	24450174.77	24450174.95	0.0089	0.0053
Earth	62230-05-22 18:43 G	24450242.02	24450242.28	24450242.53	0.0089	0.0010
Moon	62230-05-22 18:58 G	24450242.05	24450242.29	24450242.54	0.0089	0.0015 *
Venus	62230-10-27 19:41 G	24450400.14	24450400.32	24450400.51	0.0089	0.0048
Moon	62231-05-25 04:05 G	24450609.42	24450609.67	24450609.93	0.0089	0.0024
Earth	62231-05-25 06:14 G	24450609.52	24450609.76	24450610.02	0.0089	0.0020 *
Venus	62231-06-10 08:53 G	24450625.68	24450625.87	24450626.07	0.0089	0.0043
Venus	62232-01-21 22:05 G	24450851.23	24450851.42	24450851.62	0.0089	0.0038
Earth	62232-05-26 17:31 G	24450977.04	24450977.23	24450977.47	0.0089	0.0051
Moon	62232-05-26 20:10 G	24450977.15	24450977.34	24450977.58	0.0089	0.0047 *
Venus	62232-09-03 11:17 G	24451076.77	24451076.97	24451077.18	0.0089	0.0033
Venus	62233-04-17 00:29 G	24451302.32	24451302.52	24451302.74	0.0089	0.0028
Moon	62233-05-29 01:26 G	24451344.53	24451344.56	24451344.66	0.0089	0.0086
Earth	62233-05-29 05:17 G	24451344.64	24451344.72	24451344.85	0.0089	0.0081 *
Venus	62233-11-28 13:41 G	24451527.86	24451528.07	24451528.29	0.0089	0.0023
Venus	62234-07-12 02:53 G	24451753.40	24451753.62	24451753.84	0.0089	0.0018
Venus	62235-02-22 16:05 G	24451978.95	24451979.17	24451979.39	0.0089	0.0013
Venus	62235-10-06 05:17 G	24452204.50	24452204.72	24452204.94	0.0089	0.0008
Venus	62236-05-18 18:14 G	24452430.04	24452430.26	24452430.49	0.0089	0.0003
Venus	62236-12-30 07:26 G	24452655.59	24452655.81	24452656.03	0.0089	0.0002
Venus	62237-08-12 20:24 G	24452881.14	24452881.35	24452881.58	0.0089	0.0008

Venus	62238-03-26 09:50 G	24453106.69	24453106.91	24453107.13	0.0089	0.0012
Venus	62238-11-06 22:48 G	24453332.24	24453332.45	24453332.68	0.0089	0.0018
Venus	62239-06-20 12:00 G	24453557.79	24453558.00	24453558.22	0.0089	0.0023
Venus	62240-02-01 01:12 G	24453783.34	24453783.55	24453783.76	0.0089	0.0028
Jupiter	62240-04-26 04:05 G	24453868.15	24453868.67	24453869.21	0.0089	0.0004
Venus	62240-09-13 14:10 G	24454008.90	24454009.09	24454009.31	0.0089	0.0033
Venus	62241-04-27 03:36 G	24454234.46	24454234.65	24454234.85	0.0089	0.0038
Venus	62241-12-08 16:34 G	24454460.01	24454460.19	24454460.39	0.0089	0.0043
Venus	62242-07-22 05:31 G	24454685.56	24454685.73	24454685.93	0.0088	0.0048
Venus	62243-03-04 18:43 G	24454911.12	24454911.28	24454911.47	0.0088	0.0053
Venus	62243-10-16 07:41 G	24455136.67	24455136.82	24455137.00	0.0088	0.0058
Venus	62244-05-28 20:38 G	24455362.23	24455362.36	24455362.54	0.0088	0.0063
Venus	62245-01-09 09:36 G	24455587.78	24455587.90	24455588.07	0.0088	0.0068
Venus	62245-08-22 23:02 G	24455813.34	24455813.46	24455813.59	0.0088	0.0072
Venus	62246-04-05 12:00 G	24456038.91	24456039.00	24456039.12	0.0088	0.0077
Venus	62246-11-17 00:43 G	24456264.47	24456264.53	24456264.64	0.0088	0.0082
Venus	62247-06-30 14:10 G	24456490.04	24456490.09	24456490.14	0.0088	0.0086
Mars	62264-10-17 01:12 G	24462808.27	24462808.55	24462808.86	0.0088	0.0020
Mercury	62305-11-25 08:24 G	24477821.81	24477821.85	24477821.93	0.0088	0.0083
Mercury	62306-02-21 11:31 G	24477909.90	24477909.98	24477910.10	0.0088	0.0073
Mercury	62306-05-20 14:24 G	24477997.99	24477998.10	24477998.25	0.0088	0.0063
Mercury	62306-08-16 17:31 G	24478086.10	24478086.23	24478086.39	0.0088	0.0053
Mercury	62306-11-12 20:38 G	24478174.21	24478174.36	24478174.53	0.0088	0.0043
Mercury	62307-02-09 00:00 G	24478262.33	24478262.50	24478262.67	0.0088	0.0033
Mercury	62307-05-08 02:53 G	24478350.45	24478350.62	24478350.80	0.0088	0.0022
Mercury	62307-08-04 06:00 G	24478438.57	24478438.75	24478438.93	0.0088	0.0012
Mercury	62307-10-31 09:07 G	24478526.69	24478526.88	24478527.06	0.0088	0.0002
Mercury	62308-01-27 12:00 G	24478614.82	24478615.00	24478615.19	0.0088	0.0009
Mercury	62308-04-24 15:07 G	24478702.95	24478703.13	24478703.31	0.0088	0.0019
Mercury	62308-07-21 18:00 G	24478791.09	24478791.25	24478791.44	0.0088	0.0029



Mercury	62308-10-17 21:07 G	24478879.23	24478879.38	24478879.56	0.0088	0.0040
Mercury	62309-01-14 00:29 G	24478967.37	24478967.52	24478967.68	0.0088	0.0049
Venus	62309-03-30 19:26 G	24479043.26	24479043.31	24479043.38	0.0088	0.0085
Mercury	62309-04-12 03:22 G	24479055.52	24479055.64	24479055.79	0.0088	0.0060
Mercury	62309-07-09 06:29 G	24479143.67	24479143.77	24479143.89	0.0088	0.0071
Mercury	62309-10-05 09:22 G	24479231.84	24479231.89	24479231.99	0.0088	0.0082
Venus	62309-11-11 07:55 G	24479268.76	24479268.83	24479268.94	0.0088	0.0080
Venus	62310-06-24 20:38 G	24479494.27	24479494.36	24479494.49	0.0088	0.0076
Venus	62311-02-05 09:50 G	24479719.78	24479719.91	24479720.04	0.0088	0.0071
Venus	62311-09-18 22:05 G	24479945.30	24479945.42	24479945.59	0.0088	0.0067
Earth	62311-11-21 11:31 G	24480008.83	24480008.98	24480009.16	0.0088	0.0069
Moon	62311-11-21 12:29 G	24480008.87	24480009.02	24480009.19	0.0088	0.0068 *
Venus	62312-05-01 11:02 G	24480170.82	24480170.96	24480171.13	0.0088	0.0062
Moon	62312-11-22 21:36 G	24480376.16	24480376.40	24480376.64	0.0088	0.0040
Earth	62312-11-22 23:02 G	24480376.24	24480376.46	24480376.71	0.0088	0.0039 *
Venus	62312-12-13 00:00 G	24480396.34	24480396.50	24480396.67	0.0088	0.0057
Venus	62313-07-26 12:43 G	24480621.86	24480622.03	24480622.21	0.0088	0.0052
Earth	62313-11-25 10:48 G	24480743.69	24480743.95	24480744.21	0.0088	0.0009
Moon	62313-11-25 13:26 G	24480743.81	24480744.06	24480744.31	0.0088	0.0006 *
Venus	62314-03-09 01:12 G	24480847.38	24480847.55	24480847.76	0.0088	0.0048
Venus	62314-10-20 14:10 G	24481072.91	24481073.09	24481073.30	0.0088	0.0042
Moon	62314-11-27 18:29 G	24481111.03	24481111.27	24481111.54	0.0088	0.0021
Earth	62314-11-27 22:19 G	24481111.18	24481111.43	24481111.68	0.0088	0.0022 *
Venus	62315-06-03 02:53 G	24481298.44	24481298.62	24481298.84	0.0088	0.0038
Earth	62315-11-30 09:22 G	24481478.70	24481478.89	24481479.12	0.0088	0.0052
Moon	62315-11-30 13:12 G	24481478.85	24481479.05	24481479.26	0.0088	0.0054 *
Venus	62316-01-14 15:50 G	24481523.97	24481524.16	24481524.38	0.0088	0.0033
Venus	62316-08-27 04:48 G	24481749.50	24481749.70	24481749.92	0.0088	0.0028
Moon	62316-12-01 17:02 G	24481846.13	24481846.21	24481846.35	0.0088	0.0080
Earth	62316-12-01 20:53 G	24481846.29	24481846.37	24481846.49	0.0088	0.0082 *

Venus	62317-04-09 17:46 G	24481975.04	24481975.24	24481975.46	0.0088	0.0023
Venus	62317-11-21 06:43 G	24482200.57	24482200.78	24482201.00	0.0088	0.0017
Venus	62318-07-04 19:26 G	24482426.10	24482426.31	24482426.54	0.0088	0.0013
Venus	62319-02-15 08:24 G	24482651.64	24482651.85	24482652.08	0.0088	0.0008
Venus	62319-09-28 21:36 G	24482877.18	24482877.40	24482877.62	0.0089	0.0002
Venus	62320-05-11 10:19 G	24483102.72	24483102.93	24483103.16	0.0089	0.0004
Venus	62320-12-22 23:17 G	24483328.25	24483328.47	24483328.69	0.0089	0.0008
Venus	62321-08-05 12:00 G	24483553.79	24483554.00	24483554.22	0.0089	0.0013
Venus	62322-03-19 00:58 G	24483779.33	24483779.54	24483779.76	0.0089	0.0018
Venus	62322-10-30 13:55 G	24484004.87	24484005.08	24484005.29	0.0089	0.0023
Venus	62323-06-13 02:53 G	24484230.41	24484230.62	24484230.82	0.0089	0.0028
Venus	62324-01-24 15:36 G	24484455.95	24484456.15	24484456.36	0.0089	0.0033
Venus	62324-09-06 04:34 G	24484681.50	24484681.69	24484681.89	0.0089	0.0038
Venus	62325-04-19 17:31 G	24484907.04	24484907.23	24484907.42	0.0089	0.0043
Venus	62325-12-01 06:14 G	24485132.59	24485132.76	24485132.95	0.0089	0.0048
Venus	62326-07-14 19:12 G	24485358.13	24485358.30	24485358.48	0.0089	0.0053
Venus	62327-02-25 07:55 G	24485583.68	24485583.83	24485584.01	0.0089	0.0058
Venus	62327-10-08 20:53 G	24485809.24	24485809.37	24485809.55	0.0089	0.0063
Venus	62328-05-21 09:50 G	24486034.79	24486034.91	24486035.07	0.0089	0.0068
Venus	62329-01-01 22:48 G	24486260.35	24486260.45	24486260.60	0.0089	0.0073
Venus	62329-08-15 12:14 G	24486485.91	24486486.01	24486486.12	0.0089	0.0077
Venus	62330-03-29 00:58 G	24486711.48	24486711.54	24486711.64	0.0089	0.0082
Venus	62330-11-09 13:55 G	24486937.06	24486937.08	24486937.15	0.0089	0.0087
Mars	62346-07-10 16:34 G	24492659.05	24492659.19	24492659.39	0.0089	0.0077
Mars	62348-06-05 16:05 G	24493355.04	24493355.17	24493355.32	0.0090	0.0081
Mercury	62386-09-23 20:53 G	24507344.33	24507344.37	24507344.43	0.0089	0.0083
Mercury	62386-12-20 22:34 G	24507432.37	24507432.44	24507432.52	0.0089	0.0074
Mercury	62387-03-19 00:00 G	24507520.42	24507520.50	24507520.61	0.0089	0.0066
Mercury	62387-06-15 01:55 G	24507608.47	24507608.58	24507608.68	0.0089	0.0058
Mercury	62387-09-11 03:22 G	24507696.53	24507696.64	24507696.76	0.0089	0.0050

Mercury	62387-12-08 04:48 G	24507784.58	24507784.70	24507784.83	0.0089	0.0042
Mercury	62388-03-05 06:29 G	24507872.64	24507872.77	24507872.90	0.0089	0.0033
Mercury	62388-06-01 07:55 G	24507960.70	24507960.83	24507960.97	0.0089	0.0025
Mercury	62388-08-28 09:36 G	24508048.76	24508048.90	24508049.04	0.0089	0.0017
Mercury	62388-11-24 11:02 G	24508136.82	24508136.96	24508137.10	0.0089	0.0009
Mercury	62389-02-20 12:43 G	24508224.89	24508225.03	24508225.16	0.0089	0.0003
Mercury	62389-05-19 14:10 G	24508312.95	24508313.09	24508313.23	0.0089	0.0007
Mercury	62389-08-15 15:36 G	24508401.02	24508401.15	24508401.29	0.0089	0.0015
Mercury	62389-11-11 17:02 G	24508489.08	24508489.21	24508489.35	0.0089	0.0023
Mercury	62390-02-07 18:29 G	24508577.15	24508577.27	24508577.41	0.0089	0.0031
Venus	62390-02-20 17:17 G	24508590.18	24508590.22	24508590.28	0.0089	0.0086
Mercury	62390-05-06 19:55 G	24508665.22	24508665.33	24508665.46	0.0089	0.0039
Mercury	62390-08-02 21:22 G	24508753.29	24508753.39	24508753.52	0.0089	0.0047
Venus	62390-10-04 06:43 G	24508815.70	24508815.78	24508815.87	0.0089	0.0082
Mercury	62390-10-29 22:48 G	24508841.36	24508841.45	24508841.57	0.0089	0.0055
Mercury	62391-01-26 00:29 G	24508929.43	24508929.52	24508929.62	0.0089	0.0063
Mercury	62391-04-24 01:55 G	24509017.50	24509017.58	24509017.67	0.0089	0.0070
Venus	62391-05-17 19:26 G	24509041.23	24509041.31	24509041.45	0.0089	0.0078
Mercury	62391-07-21 03:22 G	24509105.58	24509105.64	24509105.71	0.0089	0.0078
Mercury	62391-10-17 04:48 G	24509193.67	24509193.70	24509193.74	0.0089	0.0086
Venus	62391-12-29 08:53 G	24509266.76	24509266.87	24509267.02	0.0089	0.0072
Earth	62392-05-18 00:29 G	24509407.48	24509407.52	24509407.56	0.0089	0.0088
Venus	62392-08-10 22:19 G	24509492.30	24509492.43	24509492.59	0.0089	0.0067
Venus	62393-03-24 11:46 G	24509717.85	24509717.99	24509718.16	0.0089	0.0062
Earth	62393-05-20 12:00 G	24509774.81	24509775.00	24509775.21	0.0089	0.0057
Moon	62393-05-20 13:26 G	24509774.87	24509775.06	24509775.26	0.0089	0.0055 *
Venus	62393-11-05 01:12 G	24509943.39	24509943.55	24509943.73	0.0089	0.0057
Moon	62394-05-22 21:50 G	24510142.17	24510142.41	24510142.66	0.0089	0.0029
Earth	62394-05-22 23:46 G	24510142.26	24510142.49	24510142.75	0.0089	0.0027 *
Venus	62394-06-18 14:24 G	24510168.94	24510169.10	24510169.29	0.0089	0.0052

Venus	62395-01-30 03:50 G	24510394.48	24510394.66	24510394.85	0.0089	0.0047
Earth	62395-05-25 12:00 G	24510509.75	24510510.00	24510510.26	0.0089	0.0004
Moon	62395-05-25 15:22 G	24510509.89	24510510.14	24510510.39	0.0089	0.0007 *
Venus	62395-09-12 17:02 G	24510620.03	24510620.21	24510620.41	0.0089	0.0042
Venus	62396-04-25 06:29 G	24510845.58	24510845.77	24510845.98	0.0089	0.0037
Moon	62396-05-26 20:10 G	24510877.11	24510877.34	24510877.59	0.0089	0.0032
Earth	62396-05-26 23:31 G	24510877.26	24510877.48	24510877.73	0.0089	0.0035 *
Venus	62396-12-06 19:41 G	24511071.12	24511071.32	24511071.53	0.0089	0.0032
Earth	62397-05-29 11:17 G	24511244.81	24511244.97	24511245.16	0.0089	0.0065
Moon	62397-05-29 14:53 G	24511244.97	24511245.12	24511245.31	0.0089	0.0067 *
Venus	62397-07-20 08:53 G	24511296.67	24511296.87	24511297.09	0.0089	0.0027
Venus	62398-03-02 22:05 G	24511522.22	24511522.42	24511522.64	0.0089	0.0022
Venus	62398-10-14 11:17 G	24511747.76	24511747.97	24511748.20	0.0089	0.0017
Venus	62399-05-28 00:29 G	24511973.31	24511973.52	24511973.75	0.0089	0.0012
Venus	62400-01-08 13:41 G	24512198.85	24512199.07	24512199.29	0.0089	0.0007
Venus	62400-08-21 02:53 G	24512424.40	24512424.62	24512424.84	0.0089	0.0002
Venus	62401-04-03 16:19 G	24512649.96	24512650.18	24512650.40	0.0089	0.0004
Venus	62401-11-15 05:17 G	24512875.50	24512875.72	24512875.94	0.0089	0.0009
Venus	62402-06-28 18:14 G	24513101.05	24513101.26	24513101.49	0.0089	0.0014
Venus	62403-02-09 07:26 G	24513326.60	24513326.81	24513327.03	0.0089	0.0019
Venus	62403-09-22 20:38 G	24513552.15	24513552.36	24513552.58	0.0089	0.0024
Venus	62404-05-05 09:50 G	24513777.71	24513777.91	24513778.12	0.0089	0.0029
Venus	62404-12-16 23:02 G	24514003.26	24514003.46	24514003.67	0.0089	0.0034
Venus	62405-07-30 12:00 G	24514228.81	24514229.00	24514229.21	0.0089	0.0039
Venus	62406-03-13 01:12 G	24514454.37	24514454.55	24514454.75	0.0089	0.0044
Jupiter	62406-06-22 12:43 G	24514555.62	24514556.03	24514556.49	0.0089	0.0052
Venus	62406-10-24 14:24 G	24514679.92	24514680.10	24514680.29	0.0089	0.0049
Venus	62407-06-07 03:22 G	24514905.48	24514905.64	24514905.83	0.0088	0.0054
Venus	62408-01-18 16:34 G	24515131.04	24515131.19	24515131.36	0.0088	0.0059
Venus	62408-08-31 05:31 G	24515356.59	24515356.73	24515356.90	0.0088	0.0064

Venus	62409-04-13 18:43 G	24515582.16	24515582.28	24515582.44	0.0088	0.0068
Venus	62409-11-25 08:10 G	24515807.72	24515807.84	24515807.96	0.0088	0.0073
Venus	62410-07-08 20:53 G	24516033.28	24516033.37	24516033.48	0.0088	0.0078
Venus	62411-02-19 09:36 G	24516258.84	24516258.90	24516259.00	0.0088	0.0083
Venus	62411-10-02 23:02 G	24516484.43	24516484.46	24516484.50	0.0088	0.0087
Mars	62428-06-02 06:58 G	24522571.54	24522571.79	24522572.08	0.0088	0.0039
Mercury	62470-08-22 06:14 G	24537992.70	24537992.76	24537992.84	0.0088	0.0080
Mercury	62470-11-18 09:22 G	24538080.79	24538080.89	24538081.00	0.0088	0.0070
Mercury	62471-02-14 12:14 G	24538168.89	24538169.01	24538169.15	0.0088	0.0060
Mercury	62471-05-13 15:22 G	24538257.00	24538257.14	24538257.29	0.0088	0.0050
Mercury	62471-08-09 18:14 G	24538345.11	24538345.26	24538345.43	0.0088	0.0040
Mercury	62471-11-05 21:22 G	24538433.22	24538433.39	24538433.56	0.0088	0.0030
Mercury	62472-02-02 00:29 G	24538521.34	24538521.52	24538521.70	0.0088	0.0020
Mercury	62472-04-30 03:22 G	24538609.47	24538609.64	24538609.83	0.0088	0.0010
Mercury	62472-07-27 06:29 G	24538697.59	24538697.77	24538697.96	0.0088	0.0002
Mercury	62472-10-23 09:36 G	24538785.72	24538785.90	24538786.08	0.0088	0.0011
Venus	62472-11-18 15:07 G	24538812.13	24538812.13	24538812.17	0.0088	0.0088
Mercury	62473-01-19 12:29 G	24538873.85	24538874.02	24538874.21	0.0088	0.0021
Mercury	62473-04-17 15:36 G	24538961.99	24538962.15	24538962.33	0.0088	0.0031
Venus	62473-07-02 03:50 G	24539037.61	24539037.66	24539037.75	0.0088	0.0084
Mercury	62473-07-14 18:43 G	24539050.13	24539050.28	24539050.45	0.0088	0.0042
Mercury	62473-10-10 21:36 G	24539138.27	24539138.40	24539138.57	0.0088	0.0052
Mercury	62474-01-07 00:58 G	24539226.42	24539226.54	24539226.68	0.0088	0.0062
Venus	62474-02-12 17:02 G	24539263.11	24539263.21	24539263.31	0.0088	0.0079
Mercury	62474-04-05 04:19 G	24539314.58	24539314.68	24539314.78	0.0088	0.0073
Mercury	62474-07-02 06:58 G	24539402.75	24539402.79	24539402.87	0.0088	0.0084
Venus	62474-09-26 05:17 G	24539488.63	24539488.72	24539488.86	0.0088	0.0075
Venus	62475-05-09 18:14 G	24539714.14	24539714.26	24539714.41	0.0088	0.0070
Moon	62475-11-20 14:24 G	24539909.00	24539909.10	24539909.23	0.0088	0.0079
Earth	62475-11-20 17:02 G	24539909.15	24539909.21	24539909.30	0.0088	0.0085 *

Venus	62475-12-21 07:12 G	24539939.66	24539939.80	24539939.95	0.0088	0.0065
Venus	62476-08-02 19:26 G	24540165.17	24540165.31	24540165.50	0.0088	0.0061
Earth	62476-11-22 04:34 G	24540276.50	24540276.69	24540276.90	0.0088	0.0055
Moon	62476-11-22 07:26 G	24540276.64	24540276.81	24540277.01	0.0088	0.0059 *
Venus	62477-03-16 08:24 G	24540390.70	24540390.85	24540391.04	0.0088	0.0056
Venus	62477-10-27 21:07 G	24540616.22	24540616.38	24540616.58	0.0088	0.0051
Moon	62477-11-24 12:29 G	24540643.78	24540644.02	24540644.29	0.0088	0.0020
Earth	62477-11-24 15:50 G	24540643.93	24540644.16	24540644.43	0.0088	0.0026 *
Venus	62478-06-10 10:05 G	24540841.74	24540841.92	24540842.11	0.0088	0.0046
Earth	62478-11-27 03:36 G	24541011.39	24541011.65	24541011.91	0.0088	0.0005
Moon	62478-11-27 07:12 G	24541011.54	24541011.80	24541012.06	0.0088	0.0001 *
Venus	62479-01-21 22:48 G	24541067.26	24541067.45	24541067.65	0.0088	0.0041
Venus	62479-09-04 11:46 G	24541292.79	24541292.99	24541293.20	0.0088	0.0036
Moon	62479-11-29 12:00 G	24541378.78	24541379.00	24541379.23	0.0088	0.0040
Earth	62479-11-29 14:38 G	24541378.89	24541379.11	24541379.36	0.0088	0.0035 *
Venus	62480-04-17 00:43 G	24541518.32	24541518.53	24541518.73	0.0088	0.0031
Venus	62480-11-28 13:12 G	24541743.85	24541744.05	24541744.27	0.0088	0.0026
Earth	62480-12-01 01:55 G	24541746.43	24541746.58	24541746.78	0.0088	0.0065
Moon	62480-12-01 04:48 G	24541746.52	24541746.70	24541746.90	0.0088	0.0061 *
Venus	62481-07-12 01:55 G	24541969.38	24541969.58	24541969.81	0.0088	0.0021
Venus	62482-02-22 14:53 G	24542194.91	24542195.12	24542195.34	0.0088	0.0016
Venus	62482-10-06 03:50 G	24542420.45	24542420.66	24542420.89	0.0088	0.0011
Venus	62483-05-19 16:48 G	24542645.98	24542646.20	24542646.42	0.0088	0.0006
Venus	62483-12-31 05:46 G	24542871.52	24542871.74	24542871.96	0.0088	0.0001
Venus	62484-08-12 18:29 G	24543097.06	24543097.27	24543097.49	0.0089	0.0005
Venus	62485-03-26 07:26 G	24543322.59	24543322.81	24543323.03	0.0089	0.0009
Venus	62485-11-06 20:10 G	24543548.13	24543548.34	24543548.57	0.0089	0.0015
Venus	62486-06-20 08:53 G	24543773.67	24543773.87	24543774.10	0.0089	0.0020
Venus	62487-01-31 22:05 G	24543999.21	24543999.42	24543999.63	0.0089	0.0024
Venus	62487-09-14 11:02 G	24544224.75	24544224.96	24544225.17	0.0089	0.0029

Venus	62488-04-27 00:00 G	24544450.30	24544450.50	24544450.70	0.0089	0.0034
Venus	62488-12-08 12:43 G	24544675.84	24544676.03	24544676.23	0.0089	0.0039
Venus	62489-07-22 01:26 G	24544901.38	24544901.56	24544901.76	0.0089	0.0044
Venus	62490-03-04 14:10 G	24545126.92	24545127.09	24545127.28	0.0089	0.0049
Venus	62490-10-16 03:07 G	24545352.47	24545352.63	24545352.82	0.0089	0.0054
Venus	62491-05-29 15:50 G	24545578.02	24545578.16	24545578.35	0.0089	0.0059
Venus	62492-01-10 04:48 G	24545803.57	24545803.70	24545803.87	0.0089	0.0064
Venus	62492-08-22 18:00 G	24546029.12	24546029.25	24546029.40	0.0089	0.0068
Venus	62493-04-05 06:58 G	24546254.68	24546254.79	24546254.92	0.0089	0.0073
Venus	62493-11-16 19:41 G	24546480.24	24546480.32	24546480.44	0.0089	0.0078
Venus	62494-06-30 08:38 G	24546705.80	24546705.86	24546705.96	0.0089	0.0083
Venus	62495-02-10 21:50 G	24546931.38	24546931.41	24546931.46	0.0089	0.0087
Mars	62512-01-19 00:43 G	24553116.20	24553116.53	24553116.86	0.0089	0.0009
Mercury	62551-03-25 18:29 G	24567427.26	24567427.27	24567427.28	0.0089	0.0089
Mercury	62551-06-21 19:55 G	24567515.28	24567515.33	24567515.39	0.0089	0.0081
Mercury	62551-09-17 21:22 G	24567603.32	24567603.39	24567603.48	0.0089	0.0073
Mercury	62551-12-14 23:02 G	24567691.37	24567691.46	24567691.56	0.0089	0.0064
Mercury	62552-03-12 00:29 G	24567779.42	24567779.52	24567779.64	0.0089	0.0056
Mercury	62552-06-08 02:24 G	24567867.48	24567867.60	24567867.72	0.0089	0.0048
Mercury	62552-09-04 03:50 G	24567955.54	24567955.66	24567955.79	0.0089	0.0040
Mercury	62552-12-01 05:17 G	24568043.60	24568043.72	24568043.86	0.0089	0.0032
Mercury	62553-02-27 06:58 G	24568131.66	24568131.79	24568131.93	0.0089	0.0023
Mercury	62553-05-26 08:24 G	24568219.72	24568219.85	24568219.99	0.0089	0.0016
Mercury	62553-08-22 10:05 G	24568307.78	24568307.92	24568308.06	0.0089	0.0007
Mercury	62553-11-18 11:31 G	24568395.84	24568395.98	24568396.12	0.0089	0.0002
Mercury	62554-02-14 12:58 G	24568483.91	24568484.04	24568484.18	0.0089	0.0010
Mercury	62554-05-13 14:24 G	24568571.97	24568572.10	24568572.24	0.0089	0.0018
Venus	62554-05-26 00:58 G	24568584.50	24568584.54	24568584.62	0.0089	0.0085
Mercury	62554-08-09 16:05 G	24568660.04	24568660.17	24568660.30	0.0089	0.0025
Mercury	62554-11-05 17:31 G	24568748.11	24568748.23	24568748.36	0.0089	0.0033

Venus	62555-01-06 14:24 G	24568810.02	24568810.10	24568810.21	0.0089	0.0080
Mercury	62555-02-01 18:58 G	24568836.17	24568836.29	24568836.42	0.0089	0.0041
Mercury	62555-04-30 20:38 G	24568924.24	24568924.36	24568924.47	0.0089	0.0049
Mercury	62555-07-27 22:05 G	24569012.31	24569012.42	24569012.52	0.0089	0.0056
Venus	62555-08-20 03:50 G	24569035.55	24569035.66	24569035.78	0.0089	0.0076
Mercury	62555-10-23 23:17 G	24569100.39	24569100.47	24569100.57	0.0089	0.0065
Mercury	62556-01-20 00:43 G	24569188.46	24569188.53	24569188.62	0.0089	0.0073
Venus	62556-04-01 16:48 G	24569261.09	24569261.20	24569261.36	0.0089	0.0071
Mercury	62556-04-17 02:10 G	24569276.54	24569276.59	24569276.66	0.0089	0.0080
Mercury	62556-07-14 03:36 G	24569364.64	24569364.65	24569364.68	0.0089	0.0088
Venus	62556-11-13 06:14 G	24569486.63	24569486.76	24569486.92	0.0089	0.0066
Moon	62557-05-20 13:55 G	24569674.96	24569675.08	24569675.23	0.0089	0.0076
Earth	62557-05-20 16:48 G	24569675.08	24569675.20	24569675.36	0.0089	0.0074 *
Venus	62557-06-26 19:26 G	24569712.17	24569712.31	24569712.49	0.0089	0.0061
Venus	62558-02-07 08:53 G	24569937.71	24569937.87	24569938.05	0.0089	0.0056
Earth	62558-05-23 05:02 G	24570042.49	24570042.71	24570042.93	0.0089	0.0043
Moon	62558-05-23 07:55 G	24570042.62	24570042.83	24570043.07	0.0089	0.0040 *
Venus	62558-09-20 22:05 G	24570163.26	24570163.42	24570163.62	0.0089	0.0051
Venus	62559-05-04 11:31 G	24570388.80	24570388.98	24570389.18	0.0089	0.0046
Moon	62559-05-25 13:12 G	24570409.80	24570410.05	24570410.31	0.0089	0.0016
Earth	62559-05-25 16:48 G	24570409.96	24570410.20	24570410.46	0.0089	0.0013 *
Venus	62559-12-16 00:43 G	24570614.35	24570614.53	24570614.74	0.0089	0.0041
Earth	62560-05-27 04:34 G	24570777.45	24570777.69	24570777.95	0.0089	0.0018
Moon	62560-05-27 07:55 G	24570777.58	24570777.83	24570778.09	0.0089	0.0021 *
Venus	62560-07-28 14:10 G	24570839.90	24570840.09	24570840.30	0.0089	0.0036
Venus	62561-03-11 03:36 G	24571065.45	24571065.65	24571065.86	0.0089	0.0031
Moon	62561-05-29 13:55 G	24571144.86	24571145.08	24571145.30	0.0089	0.0044
Earth	62561-05-29 16:34 G	24571144.98	24571145.19	24571145.41	0.0089	0.0048 *
Venus	62561-10-22 16:48 G	24571291.00	24571291.20	24571291.42	0.0089	0.0026
Earth	62562-06-01 03:50 G	24571512.57	24571512.66	24571512.81	0.0089	0.0079



Moon	62562-06-01 05:46 G	24571512.66	24571512.74	24571512.85	0.0089	0.0082 *
Venus	62562-06-05 06:00 G	24571516.54	24571516.75	24571516.97	0.0089	0.0021
Venus	62563-01-16 19:12 G	24571742.09	24571742.30	24571742.53	0.0089	0.0016
Venus	62563-08-30 08:24 G	24571967.64	24571967.85	24571968.08	0.0089	0.0011
Venus	62564-04-11 21:50 G	24572193.19	24572193.41	24572193.64	0.0089	0.0006
Venus	62564-11-23 11:02 G	24572418.74	24572418.96	24572419.18	0.0089	0.0001
Venus	62565-07-07 00:14 G	24572644.29	24572644.51	24572644.73	0.0089	0.0005
Venus	62566-02-17 13:12 G	24572869.84	24572870.05	24572870.28	0.0089	0.0010
Venus	62566-10-01 02:24 G	24573095.39	24573095.60	24573095.82	0.0089	0.0015
Venus	62567-05-14 15:36 G	24573320.94	24573321.15	24573321.37	0.0089	0.0020
Venus	62567-12-26 04:48 G	24573546.49	24573546.70	24573546.91	0.0089	0.0025
Venus	62568-08-07 17:46 G	24573772.04	24573772.24	24573772.46	0.0089	0.0030
Venus	62569-03-21 06:58 G	24573997.60	24573997.79	24573998.00	0.0089	0.0035
Venus	62569-11-01 20:10 G	24574223.15	24574223.34	24574223.54	0.0089	0.0040
Venus	62570-06-15 09:07 G	24574448.70	24574448.88	24574449.08	0.0089	0.0045
Venus	62571-01-26 22:19 G	24574674.26	24574674.43	24574674.62	0.0089	0.0050
Venus	62571-09-09 11:17 G	24574899.81	24574899.97	24574900.16	0.0089	0.0055
Venus	62572-04-22 00:29 G	24575125.38	24575125.52	24575125.70	0.0088	0.0060
Venus	62572-12-03 13:41 G	24575350.94	24575351.07	24575351.24	0.0088	0.0065
Venus	62573-07-17 02:38 G	24575576.50	24575576.61	24575576.77	0.0088	0.0070
Venus	62574-02-27 16:05 G	24575802.06	24575802.17	24575802.30	0.0088	0.0074
Venus	62574-10-11 05:02 G	24576027.63	24576027.71	24576027.83	0.0088	0.0079
Venus	62575-05-24 18:00 G	24576253.20	24576253.25	24576253.35	0.0088	0.0084
Venus	62576-01-05 07:26 G	24576478.79	24576478.81	24576478.84	0.0088	0.0088
Mars	62593-12-11 07:26 G	24583028.56	24583028.81	24583029.10	0.0088	0.0036
Mercury	62635-05-21 03:36 G	24598163.58	24598163.65	24598163.75	0.0088	0.0078
Mercury	62635-08-17 06:43 G	24598251.68	24598251.78	24598251.90	0.0088	0.0068
Mercury	62635-11-13 09:50 G	24598339.78	24598339.91	24598340.05	0.0088	0.0058
Mercury	62636-02-09 12:43 G	24598427.89	24598428.03	24598428.19	0.0088	0.0048
Mercury	62636-05-07 15:50 G	24598516.00	24598516.16	24598516.32	0.0088	0.0038

Mercury	62636-08-03 18:43 G	24598604.11	24598604.28	24598604.46	0.0088	0.0028
Mercury	62636-10-30 21:50 G	24598692.23	24598692.41	24598692.59	0.0088	0.0018
Mercury	62637-01-27 00:58 G	24598780.36	24598780.54	24598780.72	0.0088	0.0008
Venus	62637-02-21 23:46 G	24598806.45	24598806.49	24598806.53	0.0088	0.0086
Mercury	62637-04-25 03:50 G	24598868.48	24598868.66	24598868.85	0.0088	0.0003
Mercury	62637-07-22 06:58 G	24598956.61	24598956.79	24598956.97	0.0088	0.0012
Venus	62637-10-05 12:00 G	24599031.95	24599032.00	24599032.10	0.0088	0.0082
Mercury	62637-10-18 09:50 G	24599044.74	24599044.91	24599045.10	0.0088	0.0023
Mercury	62638-01-14 12:58 G	24599132.88	24599133.04	24599133.22	0.0088	0.0033
Mercury	62638-04-12 16:05 G	24599221.02	24599221.17	24599221.34	0.0088	0.0043
Venus	62638-05-19 01:12 G	24599257.45	24599257.55	24599257.66	0.0088	0.0077
Mercury	62638-07-09 19:26 G	24599309.16	24599309.31	24599309.45	0.0088	0.0054
Mercury	62638-10-05 22:05 G	24599397.31	24599397.42	24599397.56	0.0088	0.0064
Venus	62638-12-30 13:26 G	24599482.96	24599483.06	24599483.21	0.0088	0.0073
Mercury	62639-01-02 01:26 G	24599485.47	24599485.56	24599485.66	0.0088	0.0074
Mercury	62639-03-31 04:19 G	24599573.65	24599573.68	24599573.75	0.0088	0.0085
Venus	62639-08-13 02:24 G	24599708.48	24599708.60	24599708.76	0.0088	0.0069
Venus	62640-03-25 15:22 G	24599934.00	24599934.14	24599934.30	0.0088	0.0064
Venus	62640-11-06 04:19 G	24600159.52	24600159.68	24600159.84	0.0088	0.0059
Moon	62640-11-23 06:00 G	24600176.62	24600176.75	24600176.91	0.0088	0.0072
Earth	62640-11-23 09:07 G	24600176.76	24600176.88	24600177.06	0.0088	0.0071 *
Venus	62641-06-19 16:34 G	24600385.04	24600385.19	24600385.38	0.0088	0.0054
Earth	62641-11-25 20:53 G	24600544.16	24600544.37	24600544.61	0.0088	0.0041
Moon	62641-11-26 00:14 G	24600544.30	24600544.51	24600544.76	0.0088	0.0042 *
Venus	62642-01-31 05:31 G	24600610.56	24600610.73	24600610.92	0.0088	0.0049
Venus	62642-09-13 18:29 G	24600836.09	24600836.27	24600836.47	0.0088	0.0044
Moon	62642-11-28 05:46 G	24600911.50	24600911.74	24600912.00	0.0088	0.0011
Earth	62642-11-28 08:24 G	24600911.60	24600911.85	24600912.12	0.0088	0.0012 *
Venus	62643-04-27 07:12 G	24601061.61	24601061.80	24601062.00	0.0088	0.0040
Earth	62643-11-30 19:55 G	24601279.08	24601279.33	24601279.59	0.0088	0.0019

Moon	62643-11-30 21:22 G	24601279.13	24601279.39	24601279.66	0.0088	0.0018 *
Venus	62643-12-08 19:55 G	24601287.14	24601287.33	24601287.54	0.0088	0.0035
Venus	62644-07-21 08:53 G	24601512.66	24601512.87	24601513.07	0.0088	0.0030
Moon	62644-12-02 06:29 G	24601646.58	24601646.77	24601646.99	0.0088	0.0050
Earth	62644-12-02 07:12 G	24601646.60	24601646.80	24601647.03	0.0088	0.0049 *
Venus	62645-03-03 21:22 G	24601738.19	24601738.39	24601738.61	0.0088	0.0025
Venus	62645-10-15 10:05 G	24601963.72	24601963.92	24601964.15	0.0088	0.0021
Moon	62645-12-04 17:46 G	24602014.13	24602014.24	24602014.37	0.0088	0.0078
Earth	62645-12-04 18:14 G	24602014.17	24602014.26	24602014.40	0.0088	0.0079 *
Venus	62646-05-28 23:02 G	24602189.25	24602189.46	24602189.68	0.0088	0.0015
Venus	62647-01-09 12:00 G	24602414.78	24602415.00	24602415.22	0.0088	0.0010
Venus	62647-08-23 00:58 G	24602640.32	24602640.54	24602640.76	0.0088	0.0005
Venus	62648-04-04 13:41 G	24602865.86	24602866.07	24602866.29	0.0088	0.0002
Venus	62648-11-16 02:38 G	24603091.39	24603091.61	24603091.83	0.0088	0.0005
Venus	62649-06-29 15:22 G	24603316.93	24603317.14	24603317.36	0.0088	0.0010
Venus	62650-02-10 04:05 G	24603542.47	24603542.67	24603542.90	0.0089	0.0016
Venus	62650-09-23 17:02 G	24603768.01	24603768.21	24603768.44	0.0089	0.0021
Venus	62651-05-07 06:00 G	24603993.55	24603993.75	24603993.97	0.0089	0.0026
Venus	62651-12-18 19:12 G	24604219.09	24604219.30	24604219.51	0.0089	0.0030
Venus	62652-07-31 07:55 G	24604444.63	24604444.83	24604445.04	0.0089	0.0035
Venus	62653-03-13 20:53 G	24604670.18	24604670.37	24604670.57	0.0089	0.0040
Venus	62653-10-25 09:36 G	24604895.72	24604895.90	24604896.10	0.0089	0.0045
Venus	62654-06-07 22:34 G	24605121.27	24605121.44	24605121.63	0.0089	0.0050
Venus	62655-01-19 11:17 G	24605346.81	24605346.97	24605347.16	0.0089	0.0055
Venus	62655-09-02 00:00 G	24605572.36	24605572.50	24605572.68	0.0089	0.0060
Venus	62656-04-14 12:58 G	24605797.91	24605798.04	24605798.21	0.0089	0.0065
Venus	62656-11-26 02:10 G	24606023.46	24606023.59	24606023.73	0.0089	0.0069
Venus	62657-07-09 14:53 G	24606249.01	24606249.12	24606249.25	0.0089	0.0074
Venus	62658-02-20 03:36 G	24606474.57	24606474.65	24606474.77	0.0089	0.0079
Venus	62658-10-03 17:02 G	24606700.14	24606700.21	24606700.29	0.0089	0.0083

Venus	62659-05-17 05:46 G	24606925.73	24606925.74	24606925.79	0.0089	0.0088
Mars	62675-09-02 08:38 G	24612877.66	24612877.86	24612878.12	0.0089	0.0065
Mercury	62715-12-22 17:02 G	24627598.19	24627598.21	24627598.24	0.0089	0.0088
Mercury	62716-03-19 18:29 G	24627686.22	24627686.27	24627686.35	0.0089	0.0080
Mercury	62716-06-15 20:10 G	24627774.27	24627774.34	24627774.43	0.0089	0.0071
Mercury	62716-09-11 21:36 G	24627862.32	24627862.40	24627862.51	0.0089	0.0064
Mercury	62716-12-08 23:31 G	24627950.37	24627950.48	24627950.59	0.0089	0.0055
Mercury	62717-03-07 00:58 G	24628038.43	24628038.54	24628038.67	0.0089	0.0047
Mercury	62717-06-03 02:38 G	24628126.49	24628126.61	24628126.74	0.0089	0.0038
Mercury	62717-08-30 04:05 G	24628214.55	24628214.67	24628214.81	0.0089	0.0030
Mercury	62717-11-26 05:46 G	24628302.61	24628302.74	24628302.88	0.0089	0.0022
Venus	62718-01-15 19:26 G	24628353.30	24628353.31	24628353.34	0.0089	0.0089
Mercury	62718-02-22 07:12 G	24628390.67	24628390.80	24628390.94	0.0089	0.0014
Mercury	62718-05-21 08:53 G	24628478.73	24628478.87	24628479.01	0.0089	0.0006
Mercury	62718-08-17 10:19 G	24628566.79	24628566.93	24628567.07	0.0089	0.0003
Venus	62718-08-29 08:24 G	24628578.81	24628578.85	24628578.95	0.0089	0.0085
Mercury	62718-11-13 12:00 G	24628654.86	24628655.00	24628655.13	0.0089	0.0011
Mercury	62719-02-09 13:26 G	24628742.92	24628743.06	24628743.20	0.0089	0.0018
Venus	62719-04-11 21:50 G	24628804.33	24628804.41	24628804.53	0.0089	0.0080
Mercury	62719-05-08 14:53 G	24628830.99	24628831.12	24628831.25	0.0089	0.0026
Mercury	62719-08-04 16:19 G	24628919.06	24628919.18	24628919.31	0.0089	0.0034
Mercury	62719-10-31 17:46 G	24629007.13	24629007.24	24629007.37	0.0089	0.0042
Venus	62719-11-23 11:17 G	24629029.87	24629029.97	24629030.11	0.0089	0.0075
Mercury	62720-01-27 19:12 G	24629095.20	24629095.30	24629095.42	0.0089	0.0050
Mercury	62720-04-24 20:38 G	24629183.27	24629183.36	24629183.48	0.0089	0.0058
Venus	62720-07-06 00:43 G	24629255.40	24629255.53	24629255.67	0.0089	0.0070
Mercury	62720-07-21 22:05 G	24629271.34	24629271.42	24629271.52	0.0089	0.0066
Mercury	62720-10-17 23:31 G	24629359.42	24629359.48	24629359.57	0.0089	0.0074
Mercury	62721-01-14 01:12 G	24629447.50	24629447.55	24629447.61	0.0089	0.0082
Venus	62721-02-16 13:41 G	24629480.95	24629481.07	24629481.25	0.0089	0.0065

Venus	62721-09-30 03:07 G	24629706.49	24629706.63	24629706.81	0.0089	0.0060
Venus	62722-05-13 16:19 G	24629932.03	24629932.18	24629932.37	0.0089	0.0055
Moon	62722-05-24 06:29 G	24629942.57	24629942.77	24629942.97	0.0089	0.0057
Earth	62722-05-24 09:36 G	24629942.72	24629942.90	24629943.10	0.0089	0.0060 *
Venus	62722-12-25 05:46 G	24630157.57	24630157.74	24630157.94	0.0089	0.0050
Earth	62723-05-26 21:07 G	24630310.16	24630310.38	24630310.64	0.0089	0.0030
Moon	62723-05-27 00:14 G	24630310.29	24630310.51	24630310.78	0.0089	0.0034 *
Venus	62723-08-07 18:58 G	24630383.12	24630383.29	24630383.50	0.0089	0.0045
Venus	62724-03-20 08:24 G	24630608.67	24630608.85	24630609.06	0.0089	0.0040
Moon	62724-05-28 07:41 G	24630677.57	24630677.82	24630678.07	0.0089	0.0005
Earth	62724-05-28 09:22 G	24630677.63	24630677.89	24630678.15	0.0089	0.0001 *
Venus	62724-10-31 21:50 G	24630834.22	24630834.41	24630834.62	0.0089	0.0035
Earth	62725-05-30 21:22 G	24631045.15	24631045.39	24631045.63	0.0089	0.0031
Moon	62725-05-30 22:19 G	24631045.19	24631045.43	24631045.69	0.0089	0.0028 *
Venus	62725-06-14 11:02 G	24631059.77	24631059.96	24631060.18	0.0089	0.0030
Venus	62726-01-26 00:29 G	24631285.31	24631285.52	24631285.74	0.0089	0.0025
Earth	62726-06-02 08:53 G	24631412.70	24631412.87	24631413.07	0.0089	0.0062
Moon	62726-06-02 08:53 G	24631412.73	24631412.87	24631413.07	0.0089	0.0066 *
Venus	62726-09-08 13:41 G	24631510.87	24631511.07	24631511.30	0.0089	0.0020
Venus	62727-04-22 03:07 G	24631736.42	24631736.63	24631736.86	0.0089	0.0015
Moon	62727-06-04 18:58 G	24631780.27	24631780.29	24631780.34	0.0089	0.0088
Venus	62727-12-03 16:19 G	24631961.97	24631962.18	24631962.41	0.0089	0.0010
Venus	62728-07-16 05:46 G	24632187.52	24632187.74	24632187.96	0.0089	0.0004
Venus	62729-02-26 18:58 G	24632413.07	24632413.29	24632413.52	0.0089	0.0002
Venus	62729-10-10 08:10 G	24632638.62	24632638.84	24632639.07	0.0089	0.0006
Venus	62730-05-23 21:22 G	24632864.17	24632864.39	24632864.61	0.0089	0.0011
Venus	62731-01-04 10:34 G	24633089.72	24633089.94	24633090.16	0.0089	0.0016
Venus	62731-08-17 23:46 G	24633315.27	24633315.49	24633315.70	0.0089	0.0021
Venus	62732-03-30 12:58 G	24633540.83	24633541.04	24633541.25	0.0089	0.0026
Venus	62732-11-11 01:55 G	24633766.38	24633766.58	24633766.80	0.0089	0.0031

Venus	62733-06-24 15:07 G	24633991.93	24633992.13	24633992.34	0.0089	0.0036
Venus	62734-02-05 04:05 G	24634217.48	24634217.67	24634217.87	0.0089	0.0041
Venus	62734-09-18 17:17 G	24634443.04	24634443.22	24634443.41	0.0089	0.0046
Venus	62735-05-02 06:29 G	24634668.60	24634668.77	24634668.96	0.0089	0.0051
Venus	62735-12-13 19:26 G	24634894.15	24634894.31	24634894.49	0.0089	0.0056
Venus	62736-07-26 08:24 G	24635119.71	24635119.85	24635120.03	0.0089	0.0061
Venus	62737-03-08 21:36 G	24635345.27	24635345.40	24635345.56	0.0089	0.0066
Venus	62737-10-20 11:02 G	24635570.83	24635570.96	24635571.10	0.0089	0.0070
Venus	62738-06-03 00:00 G	24635796.40	24635796.50	24635796.63	0.0088	0.0075
Venus	62739-01-14 12:58 G	24636021.96	24636022.04	24636022.15	0.0088	0.0080
Venus	62739-08-28 01:55 G	24636247.54	24636247.58	24636247.67	0.0088	0.0084
Mars	62757-07-28 09:07 G	24642791.60	24642791.88	24642792.18	0.0088	0.0022
Mercury	62799-11-19 22:34 G	24658246.41	24658246.44	24658246.48	0.0088	0.0085
Mercury	62800-02-16 01:12 G	24658334.48	24658334.55	24658334.66	0.0088	0.0076
Mercury	62800-05-14 04:05 G	24658422.57	24658422.67	24658422.81	0.0088	0.0066
Mercury	62800-08-10 07:12 G	24658510.67	24658510.80	24658510.95	0.0088	0.0056
Mercury	62800-11-06 10:19 G	24658598.78	24658598.93	24658599.09	0.0088	0.0046
Mercury	62801-02-02 13:12 G	24658686.90	24658687.05	24658687.23	0.0088	0.0036
Mercury	62801-05-01 16:19 G	24658775.01	24658775.18	24658775.36	0.0088	0.0026
Venus	62801-05-27 07:55 G	24658800.80	24658800.83	24658800.90	0.0088	0.0085
Mercury	62801-07-28 19:26 G	24658863.13	24658863.31	24658863.49	0.0088	0.0016
Mercury	62801-10-24 22:19 G	24658951.25	24658951.43	24658951.62	0.0088	0.0006
Venus	62802-01-07 20:24 G	24659026.29	24659026.35	24659026.46	0.0088	0.0081
Mercury	62802-01-21 01:26 G	24659039.38	24659039.56	24659039.75	0.0088	0.0005
Mercury	62802-04-19 04:19 G	24659127.51	24659127.68	24659127.87	0.0088	0.0015
Mercury	62802-07-16 07:26 G	24659215.64	24659215.81	24659215.99	0.0088	0.0025
Venus	62802-08-21 09:36 G	24659251.81	24659251.90	24659252.02	0.0088	0.0076
Mercury	62802-10-12 10:34 G	24659303.78	24659303.94	24659304.11	0.0088	0.0035
Mercury	62803-01-08 13:41 G	24659391.92	24659392.07	24659392.23	0.0088	0.0045
Venus	62803-04-03 22:34 G	24659477.32	24659477.44	24659477.57	0.0088	0.0071

Mercury	62803-04-06 16:34 G	24659480.06	24659480.19	24659480.34	0.0088	0.0056
Mercury	62803-07-03 19:41 G	24659568.21	24659568.32	24659568.45	0.0088	0.0066
Mercury	62803-09-29 22:48 G	24659656.37	24659656.45	24659656.55	0.0088	0.0077
Venus	62803-11-15 10:48 G	24659702.83	24659702.95	24659703.12	0.0088	0.0067
Mercury	62803-12-27 01:41 G	24659744.56	24659744.57	24659744.62	0.0088	0.0087
Venus	62804-06-27 23:46 G	24659928.35	24659928.49	24659928.66	0.0088	0.0062
Earth	62804-11-23 14:38 G	24660077.10	24660077.11	24660077.17	0.0088	0.0087
Moon	62804-11-23 17:31 G	24660077.16	24660077.23	24660077.35	0.0088	0.0083 *
Venus	62805-02-08 12:43 G	24660153.87	24660154.03	24660154.20	0.0088	0.0057
Venus	62805-09-22 01:41 G	24660379.40	24660379.57	24660379.75	0.0088	0.0053
Moon	62805-11-25 23:46 G	24660444.34	24660444.49	24660444.70	0.0088	0.0062
Earth	62805-11-26 02:10 G	24660444.41	24660444.59	24660444.81	0.0088	0.0058 *
Venus	62806-05-05 13:55 G	24660604.92	24660605.08	24660605.29	0.0088	0.0049
Earth	62806-11-28 13:55 G	24660811.84	24660812.08	24660812.33	0.0088	0.0028
Moon	62806-11-28 15:22 G	24660811.88	24660812.14	24660812.39	0.0088	0.0023 *
Venus	62806-12-17 02:53 G	24660830.44	24660830.62	24660830.82	0.0088	0.0043
Venus	62807-07-30 15:36 G	24661055.96	24661056.15	24661056.36	0.0088	0.0038
Earth	62807-12-01 01:26 G	24661179.30	24661179.56	24661179.82	0.0088	0.0002
Moon	62807-12-01 01:55 G	24661179.33	24661179.58	24661179.83	0.0088	0.0002 *
Venus	62808-03-12 04:19 G	24661281.49	24661281.68	24661281.89	0.0088	0.0034
Venus	62808-10-23 17:17 G	24661507.01	24661507.22	24661507.43	0.0088	0.0028
Moon	62808-12-02 11:17 G	24661546.74	24661546.97	24661547.22	0.0088	0.0036
Earth	62808-12-02 12:29 G	24661546.79	24661547.02	24661547.27	0.0088	0.0032 *
Venus	62809-06-06 06:00 G	24661732.54	24661732.75	24661732.96	0.0088	0.0024
Earth	62809-12-04 23:31 G	24661914.32	24661914.48	24661914.69	0.0088	0.0062
Moon	62809-12-05 01:55 G	24661914.41	24661914.58	24661914.80	0.0088	0.0058 *
Venus	62810-01-17 18:43 G	24661958.07	24661958.28	24661958.50	0.0088	0.0019
Venus	62810-08-31 07:41 G	24662183.60	24662183.82	24662184.03	0.0088	0.0014
Venus	62811-04-13 20:24 G	24662409.13	24662409.35	24662409.57	0.0088	0.0009
Venus	62811-11-25 09:07 G	24662634.66	24662634.88	24662635.10	0.0088	0.0004

Venus	62812-07-07 21:50 G	24662860.19	24662860.41	24662860.63	0.0088	0.0001
Venus	62813-02-18 10:34 G	24663085.72	24663085.94	24663086.16	0.0088	0.0006
Venus	62813-10-01 23:31 G	24663311.27	24663311.48	24663311.70	0.0088	0.0011
Venus	62814-05-15 12:14 G	24663536.80	24663537.01	24663537.24	0.0088	0.0017
Venus	62814-12-27 00:58 G	24663762.34	24663762.54	24663762.77	0.0088	0.0022
Venus	62815-08-09 14:10 G	24663987.88	24663988.09	24663988.30	0.0089	0.0026
Venus	62816-03-22 02:53 G	24664213.42	24664213.62	24664213.83	0.0089	0.0031
Venus	62816-11-02 15:50 G	24664438.97	24664439.16	24664439.37	0.0089	0.0036
Venus	62817-06-16 04:48 G	24664664.51	24664664.70	24664664.90	0.0089	0.0041
Venus	62818-01-27 17:31 G	24664890.05	24664890.23	24664890.43	0.0089	0.0046
Venus	62818-09-10 06:29 G	24665115.60	24665115.77	24665115.96	0.0089	0.0051
Venus	62819-04-23 19:12 G	24665341.15	24665341.30	24665341.49	0.0089	0.0056
Venus	62819-12-05 07:55 G	24665566.70	24665566.83	24665567.01	0.0089	0.0061
Venus	62820-07-17 21:07 G	24665792.24	24665792.38	24665792.54	0.0089	0.0065
Venus	62821-02-28 09:50 G	24666017.79	24666017.91	24666018.06	0.0089	0.0070
Venus	62821-10-11 22:48 G	24666243.35	24666243.45	24666243.59	0.0089	0.0075
Venus	62822-05-25 12:00 G	24666468.91	24666469.00	24666469.10	0.0089	0.0079
Venus	62823-01-06 00:43 G	24666694.47	24666694.53	24666694.61	0.0089	0.0084
Venus	62823-08-19 13:26 G	24666920.06	24666920.06	24666920.10	0.0089	0.0089
Mars	62841-03-12 15:22 G	24673334.82	24673335.14	24673335.47	0.0089	0.0021
Mercury	62880-09-17 15:36 G	24687769.13	24687769.15	24687769.19	0.0089	0.0087
Mercury	62880-12-14 17:17 G	24687857.16	24687857.22	24687857.29	0.0089	0.0078
Mercury	62881-03-12 18:43 G	24687945.21	24687945.28	24687945.38	0.0089	0.0071
Mercury	62881-06-08 20:38 G	24688033.26	24688033.36	24688033.46	0.0089	0.0062
Mercury	62881-09-04 22:05 G	24688121.32	24688121.42	24688121.54	0.0089	0.0054
Mercury	62881-12-01 23:46 G	24688209.37	24688209.49	24688209.61	0.0089	0.0045
Mercury	62882-02-28 01:12 G	24688297.43	24688297.55	24688297.69	0.0089	0.0038
Venus	62882-04-19 02:38 G	24688347.59	24688347.61	24688347.67	0.0089	0.0088
Mercury	62882-05-27 02:53 G	24688385.49	24688385.62	24688385.76	0.0089	0.0029
Mercury	62882-08-23 04:34 G	24688473.55	24688473.69	24688473.83	0.0089	0.0021



Mercury	62882-11-19 06:00 G	24688561.62	24688561.75	24688561.89	0.0089	0.0013
Venus	62882-11-30 16:19 G	24688573.10	24688573.18	24688573.26	0.0089	0.0083
Mercury	62883-02-15 07:41 G	24688649.68	24688649.82	24688649.96	0.0089	0.0005
Mercury	62883-05-14 09:07 G	24688737.74	24688737.88	24688738.02	0.0089	0.0004
Venus	62883-07-14 05:02 G	24688798.63	24688798.71	24688798.84	0.0089	0.0079
Mercury	62883-08-10 10:34 G	24688825.81	24688825.94	24688826.08	0.0089	0.0012
Mercury	62883-11-06 12:14 G	24688913.87	24688914.01	24688914.14	0.0089	0.0020
Mercury	62884-02-02 13:41 G	24689001.94	24689002.07	24689002.20	0.0089	0.0028
Venus	62884-02-24 18:43 G	24689024.17	24689024.28	24689024.42	0.0089	0.0073
Mercury	62884-04-30 15:07 G	24689090.01	24689090.13	24689090.26	0.0089	0.0036
Mercury	62884-07-27 16:34 G	24689178.08	24689178.19	24689178.32	0.0089	0.0044
Venus	62884-10-07 08:10 G	24689249.71	24689249.84	24689249.99	0.0089	0.0069
Mercury	62884-10-23 18:00 G	24689266.15	24689266.25	24689266.37	0.0089	0.0052
Mercury	62885-01-19 19:26 G	24689354.22	24689354.31	24689354.42	0.0089	0.0060
Mercury	62885-04-17 20:53 G	24689442.29	24689442.37	24689442.47	0.0089	0.0068
Venus	62885-05-20 21:22 G	24689475.25	24689475.39	24689475.56	0.0089	0.0064
Mercury	62885-07-14 22:19 G	24689530.37	24689530.43	24689530.52	0.0089	0.0076
Mercury	62885-10-10 23:46 G	24689618.46	24689618.49	24689618.55	0.0089	0.0083
Venus	62886-01-01 10:48 G	24689700.79	24689700.95	24689701.12	0.0089	0.0059
Earth	62886-05-23 13:55 G	24689842.97	24689843.08	24689843.22	0.0089	0.0077
Moon	62886-05-23 16:19 G	24689843.08	24689843.18	24689843.31	0.0089	0.0080 *
Venus	62886-08-14 23:46 G	24689926.33	24689926.49	24689926.68	0.0089	0.0054
Venus	62887-03-28 13:12 G	24690151.88	24690152.05	24690152.25	0.0089	0.0049
Moon	62887-05-25 23:46 G	24690210.30	24690210.49	24690210.72	0.0089	0.0045
Earth	62887-05-26 01:26 G	24690210.36	24690210.56	24690210.80	0.0089	0.0047 *
Venus	62887-11-09 02:24 G	24690377.43	24690377.60	24690377.81	0.0089	0.0044
Moon	62888-05-27 13:12 G	24690577.80	24690578.05	24690578.32	0.0089	0.0019
Earth	62888-05-27 13:41 G	24690577.82	24690578.07	24690578.32	0.0089	0.0016 *
Venus	62888-06-21 15:36 G	24690602.97	24690603.15	24690603.37	0.0089	0.0039
Venus	62889-02-02 05:02 G	24690828.52	24690828.71	24690828.92	0.0089	0.0034

Earth	62889-05-30 01:12 G	24690945.31	24690945.55	24690945.81	0.0089	0.0014
Moon	62889-05-30 02:10 G	24690945.35	24690945.59	24690945.84	0.0089	0.0016 *
Venus	62889-09-15 18:14 G	24691054.07	24691054.26	24691054.48	0.0089	0.0029
Venus	62890-04-29 07:41 G	24691279.62	24691279.82	24691280.04	0.0089	0.0024
Moon	62890-06-01 10:48 G	24691312.73	24691312.95	24691313.20	0.0089	0.0042
Earth	62890-06-01 12:43 G	24691312.83	24691313.03	24691313.28	0.0089	0.0045 *
Venus	62890-12-10 20:53 G	24691505.17	24691505.37	24691505.60	0.0089	0.0019
Earth	62891-06-04 00:43 G	24691680.41	24691680.53	24691680.68	0.0089	0.0075
Moon	62891-06-04 04:05 G	24691680.56	24691680.67	24691680.80	0.0089	0.0077 *
Venus	62891-07-24 10:19 G	24691730.72	24691730.93	24691731.16	0.0089	0.0014
Venus	62892-03-05 23:46 G	24691956.28	24691956.49	24691956.72	0.0089	0.0009
Venus	62892-10-17 13:12 G	24692181.83	24692182.05	24692182.27	0.0089	0.0003
Venus	62893-05-31 02:24 G	24692407.38	24692407.60	24692407.82	0.0089	0.0002
Venus	62894-01-11 15:36 G	24692632.93	24692633.15	24692633.37	0.0089	0.0007
Venus	62894-08-25 04:48 G	24692858.49	24692858.70	24692858.92	0.0089	0.0012
Venus	62895-04-07 18:14 G	24693084.05	24693084.26	24693084.48	0.0089	0.0017
Venus	62895-11-19 07:26 G	24693309.60	24693309.81	24693310.03	0.0089	0.0022
Venus	62896-07-01 20:24 G	24693535.15	24693535.35	24693535.57	0.0089	0.0027
Venus	62897-02-12 09:36 G	24693760.70	24693760.90	24693761.11	0.0089	0.0032
Venus	62897-09-25 22:48 G	24693986.26	24693986.45	24693986.66	0.0089	0.0037
Venus	62898-05-09 12:00 G	24694211.82	24694212.00	24694212.20	0.0089	0.0042
Venus	62898-12-21 01:12 G	24694437.37	24694437.55	24694437.74	0.0089	0.0047
Venus	62899-08-03 14:10 G	24694662.92	24694663.09	24694663.28	0.0089	0.0052
Venus	62900-03-17 03:22 G	24694888.48	24694888.64	24694888.82	0.0089	0.0057
Venus	62900-10-28 16:19 G	24695114.04	24695114.18	24695114.36	0.0089	0.0062
Venus	62901-06-11 05:17 G	24695339.60	24695339.72	24695339.89	0.0089	0.0067
Venus	62902-01-22 18:43 G	24695565.16	24695565.28	24695565.42	0.0089	0.0071
Venus	62902-09-05 07:41 G	24695790.72	24695790.82	24695790.95	0.0089	0.0076
Venus	62903-04-18 20:53 G	24696016.30	24696016.37	24696016.48	0.0088	0.0081
Venus	62903-11-30 10:19 G	24696241.88	24696241.93	24696242.00	0.0088	0.0085

Mars	62921-03-13 10:48 G	24702554.85	24702554.95	24702555.07	0.0088	0.0081
Mars	62923-02-05 09:22 G	24703248.65	24703248.89	24703249.13	0.0088	0.0052
Mercury	62964-08-16 19:55 G	24718417.29	24718417.33	24718417.40	0.0088	0.0083
Mercury	62964-11-12 23:02 G	24718505.37	24718505.46	24718505.57	0.0088	0.0073
Mercury	62965-02-09 02:10 G	24718593.47	24718593.59	24718593.71	0.0088	0.0063
Mercury	62965-05-08 05:02 G	24718681.57	24718681.71	24718681.86	0.0088	0.0053
Mercury	62965-08-04 07:41 G	24718769.68	24718769.82	24718769.99	0.0088	0.0044
Venus	62965-08-29 16:34 G	24718795.15	24718795.19	24718795.28	0.0088	0.0084
Mercury	62965-10-31 10:48 G	24718857.79	24718857.95	24718858.13	0.0088	0.0034
Mercury	62966-01-27 13:41 G	24718945.91	24718946.07	24718946.26	0.0088	0.0024
Venus	62966-04-12 05:31 G	24719020.65	24719020.73	24719020.84	0.0088	0.0079
Mercury	62966-04-25 16:48 G	24719034.03	24719034.20	24719034.39	0.0088	0.0014
Mercury	62966-07-22 19:55 G	24719122.15	24719122.33	24719122.52	0.0088	0.0004
Mercury	62966-10-18 23:02 G	24719210.28	24719210.46	24719210.64	0.0088	0.0007
Venus	62966-11-23 18:00 G	24719246.16	24719246.25	24719246.38	0.0088	0.0075
Mercury	62967-01-15 01:55 G	24719298.41	24719298.58	24719298.77	0.0088	0.0017
Mercury	62967-04-13 05:02 G	24719386.54	24719386.71	24719386.89	0.0088	0.0027
Venus	62967-07-07 06:43 G	24719471.67	24719471.78	24719471.93	0.0088	0.0070
Mercury	62967-07-10 08:10 G	24719474.68	24719474.84	24719475.01	0.0088	0.0037
Mercury	62967-10-06 10:48 G	24719562.82	24719562.95	24719563.12	0.0088	0.0048
Mercury	62968-01-02 13:55 G	24719650.96	24719651.08	24719651.23	0.0088	0.0058
Venus	62968-02-17 19:55 G	24719697.18	24719697.33	24719697.47	0.0088	0.0065
Mercury	62968-03-30 17:17 G	24719739.11	24719739.22	24719739.34	0.0088	0.0068
Mercury	62968-06-26 20:38 G	24719827.28	24719827.36	24719827.44	0.0088	0.0079
Venus	62968-09-30 08:24 G	24719922.71	24719922.85	24719923.02	0.0088	0.0061
Venus	62969-05-13 21:07 G	24720148.23	24720148.38	24720148.57	0.0088	0.0056
Earth	62969-11-26 07:41 G	24720344.69	24720344.82	24720344.98	0.0088	0.0073
Moon	62969-11-26 08:10 G	24720344.71	24720344.84	24720344.99	0.0088	0.0074 *
Venus	62969-12-25 10:05 G	24720373.75	24720373.92	24720374.11	0.0088	0.0051
Venus	62970-08-07 23:02 G	24720599.27	24720599.46	24720599.65	0.0088	0.0047

Earth	62970-11-28 19:26 G	24720712.09	24720712.31	24720712.54	0.0088	0.0043
Moon	62970-11-28 19:55 G	24720712.12	24720712.33	24720712.56	0.0088	0.0043 *
Venus	62971-03-21 11:31 G	24720824.80	24720824.98	24720825.19	0.0088	0.0042
Venus	62971-11-02 00:14 G	24721050.33	24721050.51	24721050.72	0.0088	0.0037
Moon	62971-12-01 04:48 G	24721079.44	24721079.70	24721079.96	0.0088	0.0016
Earth	62971-12-01 07:12 G	24721079.54	24721079.80	24721080.05	0.0088	0.0014 *
Venus	62972-06-14 12:58 G	24721275.85	24721276.04	24721276.26	0.0088	0.0032
Earth	62972-12-02 18:14 G	24721447.02	24721447.26	24721447.53	0.0088	0.0017
Moon	62972-12-02 21:22 G	24721447.14	24721447.39	24721447.64	0.0088	0.0018 *
Venus	62973-01-26 01:41 G	24721501.38	24721501.57	24721501.79	0.0088	0.0028
Venus	62973-09-08 14:38 G	24721726.91	24721727.11	24721727.33	0.0088	0.0023
Moon	62973-12-05 01:55 G	24721814.37	24721814.58	24721814.82	0.0088	0.0045
Earth	62973-12-05 05:31 G	24721814.53	24721814.73	24721814.97	0.0088	0.0046 *
Venus	62974-04-22 03:36 G	24721952.44	24721952.65	24721952.87	0.0088	0.0017
Venus	62974-12-03 16:19 G	24722177.96	24722178.18	24722178.40	0.0088	0.0012
Earth	62974-12-07 17:02 G	24722182.09	24722182.21	24722182.35	0.0088	0.0076
Moon	62974-12-07 20:10 G	24722182.25	24722182.34	24722182.49	0.0088	0.0078 *
Venus	62975-07-17 05:02 G	24722403.49	24722403.71	24722403.93	0.0088	0.0008
Venus	62976-02-27 17:46 G	24722629.02	24722629.24	24722629.46	0.0088	0.0003
Venus	62976-10-10 06:43 G	24722854.56	24722854.78	24722855.00	0.0088	0.0002
Venus	62977-05-23 19:26 G	24723080.09	24723080.31	24723080.53	0.0088	0.0007
Venus	62978-01-04 08:10 G	24723305.62	24723305.84	24723306.06	0.0088	0.0012
Venus	62978-08-17 20:53 G	24723531.16	24723531.37	24723531.59	0.0088	0.0017
Venus	62979-03-31 09:36 G	24723756.70	24723756.90	24723757.12	0.0088	0.0022
Venus	62979-11-11 22:19 G	24723982.24	24723982.43	24723982.65	0.0088	0.0028
Venus	62980-06-24 11:02 G	24724207.78	24724207.96	24724208.18	0.0089	0.0033
Venus	62981-02-05 00:14 G	24724433.32	24724433.51	24724433.71	0.0089	0.0037
Venus	62981-09-18 13:12 G	24724658.86	24724659.05	24724659.25	0.0089	0.0042
Jupiter	62981-12-28 01:55 G	24724759.36	24724759.58	24724759.92	0.0089	0.0077
Venus	62982-05-02 01:55 G	24724884.41	24724884.58	24724884.78	0.0089	0.0047

Venus	62982-12-13 14:53 G	24725109.95	24725110.12	24725110.31	0.0089	0.0052
Venus	62983-07-27 03:36 G	24725335.50	24725335.65	24725335.83	0.0089	0.0057
Venus	62984-03-08 16:19 G	24725561.04	24725561.18	24725561.36	0.0089	0.0062
Venus	62984-10-20 05:46 G	24725786.60	24725786.74	24725786.89	0.0089	0.0066
Venus	62985-06-02 18:29 G	24726012.15	24726012.27	24726012.41	0.0089	0.0071
Venus	62986-01-14 06:58 G	24726237.70	24726237.79	24726237.93	0.0089	0.0076
Venus	62986-08-27 20:24 G	24726463.26	24726463.35	24726463.44	0.0089	0.0080
Venus	62987-04-10 08:53 G	24726688.83	24726688.87	24726688.95	0.0089	0.0085

# 64TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 64th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	63004-10-26 00:58 G		24733096.29	24733096.54	24733096.83	0.0089	0.0052	
Mercury	63045-06-16 14:24 G		24747940.07	24747940.10	24747940.15	0.0089	0.0085	
Mercury	63045-09-12 15:50 G		24748028.11	24748028.16	24748028.24	0.0089	0.0077	
Mercury	63045-12-09 17:46 G		24748116.15	24748116.24	24748116.33	0.0089	0.0069	
Mercury	63046-03-07 19:12 G		24748204.21	24748204.30	24748204.41	0.0089	0.0061	
Mercury	63046-06-03 20:53 G		24748292.26	24748292.37	24748292.49	0.0089	0.0052	
Venus	63046-07-23 10:05 G		24748341.88	24748341.92	24748341.99	0.0089	0.0087	
Mercury	63046-08-30 22:19 G		24748380.32	24748380.43	24748380.56	0.0089	0.0044	
Mercury	63046-11-27 00:14 G		24748468.38	24748468.51	24748468.64	0.0089	0.0036	
Mercury	63047-02-23 01:41 G		24748556.44	24748556.57	24748556.71	0.0089	0.0028	

Venus	63047-03-05 23:46 G	24748567.41	24748567.49	24748567.58	0.0089	0.0082
Mercury	63047-05-22 03:22 G	24748644.50	24748644.64	24748644.77	0.0089	0.0019
Mercury	63047-08-18 04:48 G	24748732.57	24748732.70	24748732.84	0.0089	0.0011
Venus	63047-10-17 12:43 G	24748792.94	24748793.03	24748793.16	0.0089	0.0077
Mercury	63047-11-14 06:29 G	24748820.63	24748820.77	24748820.91	0.0089	0.0003
Mercury	63048-02-10 07:55 G	24748908.69	24748908.83	24748908.97	0.0089	0.0005
Mercury	63048-05-08 09:22 G	24748996.76	24748996.89	24748997.03	0.0089	0.0014
Venus	63048-05-30 02:10 G	24749018.48	24749018.59	24749018.74	0.0089	0.0072
Mercury	63048-08-04 11:02 G	24749084.83	24749084.96	24749085.09	0.0089	0.0021
Mercury	63048-10-31 12:29 G	24749172.89	24749173.02	24749173.15	0.0089	0.0029
Venus	63049-01-10 15:36 G	24749244.02	24749244.15	24749244.31	0.0089	0.0067
Mercury	63049-01-27 13:55 G	24749260.96	24749261.08	24749261.21	0.0089	0.0037
Mercury	63049-04-25 15:22 G	24749349.03	24749349.14	24749349.27	0.0089	0.0045
Mercury	63049-07-22 16:48 G	24749437.10	24749437.20	24749437.32	0.0089	0.0053
Venus	63049-08-24 05:02 G	24749469.56	24749469.71	24749469.88	0.0089	0.0062
Mercury	63049-10-18 18:14 G	24749525.17	24749525.26	24749525.37	0.0089	0.0061
Mercury	63050-01-14 20:10 G	24749613.25	24749613.34	24749613.42	0.0089	0.0069
Venus	63050-04-06 18:29 G	24749695.11	24749695.27	24749695.45	0.0089	0.0058
Mercury	63050-04-12 21:22 G	24749701.33	24749701.39	24749701.47	0.0089	0.0077
Mercury	63050-07-09 22:48 G	24749789.42	24749789.45	24749789.50	0.0089	0.0085
Venus	63050-11-18 07:55 G	24749920.65	24749920.83	24749921.01	0.0089	0.0053
Moon	63051-05-27 06:14 G	24750110.58	24750110.76	24750110.97	0.0089	0.0059
Earth	63051-05-27 06:14 G	24750110.60	24750110.76	24750110.96	0.0089	0.0064 *
Venus	63051-07-01 21:07 G	24750146.20	24750146.38	24750146.57	0.0089	0.0048
Venus	63052-02-12 10:19 G	24750371.74	24750371.93	24750372.13	0.0089	0.0043
Earth	63052-05-28 18:14 G	24750478.03	24750478.26	24750478.51	0.0089	0.0033
Moon	63052-05-28 19:55 G	24750478.12	24750478.33	24750478.57	0.0089	0.0039 *
Venus	63052-09-24 23:46 G	24750597.29	24750597.49	24750597.69	0.0089	0.0038
Venus	63053-05-08 12:58 G	24750822.84	24750823.04	24750823.25	0.0089	0.0033
Moon	63053-05-31 03:36 G	24750845.38	24750845.65	24750845.91	0.0089	0.0002

Earth	63053-05-31 06:14 G	24750845.50	24750845.76	24750846.02	0.0089	0.0003	*
Venus	63053-12-20 02:10 G	24751048.39	24751048.59	24751048.80	0.0089	0.0028	
Earth	63054-06-02 17:31 G	24751213.00	24751213.23	24751213.49	0.0089	0.0028	
Moon	63054-06-02 20:53 G	24751213.14	24751213.37	24751213.62	0.0089	0.0024	*
Venus	63054-08-02 15:36 G	24751273.93	24751274.15	24751274.36	0.0089	0.0023	
Venus	63055-03-16 04:48 G	24751499.49	24751499.70	24751499.92	0.0089	0.0018	
Moon	63055-06-05 01:26 G	24751580.40	24751580.56	24751580.76	0.0089	0.0064	
Earth	63055-06-05 05:17 G	24751580.55	24751580.72	24751580.93	0.0089	0.0058	*
Venus	63055-10-27 18:14 G	24751725.04	24751725.26	24751725.48	0.0089	0.0012	
Earth	63056-06-06 17:31 G	24751948.21	24751948.23	24751948.25	0.0089	0.0088	
Moon	63056-06-06 20:24 G	24751948.29	24751948.35	24751948.45	0.0089	0.0084	
Venus	63056-06-09 07:26 G	24751950.59	24751950.81	24751951.03	0.0089	0.0007	
Venus	63057-01-20 20:38 G	24752176.14	24752176.36	24752176.58	0.0089	0.0002	
Venus	63057-09-03 09:50 G	24752401.69	24752401.91	24752402.13	0.0089	0.0003	
Venus	63058-04-16 23:17 G	24752627.25	24752627.47	24752627.69	0.0089	0.0008	
Venus	63058-11-28 12:29 G	24752852.81	24752853.02	24752853.24	0.0089	0.0013	
Venus	63059-07-12 01:41 G	24753078.36	24753078.57	24753078.79	0.0089	0.0018	
Venus	63060-02-22 15:07 G	24753303.92	24753304.13	24753304.34	0.0089	0.0023	
Venus	63060-10-05 04:19 G	24753529.47	24753529.68	24753529.89	0.0089	0.0028	
Venus	63061-05-18 17:31 G	24753755.03	24753755.23	24753755.44	0.0089	0.0033	
Venus	63061-12-30 06:43 G	24753980.58	24753980.78	24753980.98	0.0089	0.0038	
Venus	63062-08-12 19:41 G	24754206.14	24754206.32	24754206.52	0.0089	0.0043	
Venus	63063-03-26 08:53 G	24754431.70	24754431.87	24754432.07	0.0089	0.0048	
Venus	63063-11-06 22:05 G	24754657.25	24754657.42	24754657.61	0.0089	0.0053	
Venus	63064-06-19 11:02 G	24754882.81	24754882.96	24754883.14	0.0089	0.0058	
Venus	63065-01-31 00:00 G	24755108.36	24755108.50	24755108.68	0.0089	0.0063	
Venus	63065-09-13 13:26 G	24755333.92	24755334.06	24755334.21	0.0089	0.0067	
Venus	63066-04-27 02:38 G	24755559.49	24755559.61	24755559.75	0.0089	0.0072	
Venus	63066-12-08 15:36 G	24755785.06	24755785.15	24755785.28	0.0089	0.0077	
Venus	63067-07-22 05:02 G	24756010.62	24756010.71	24756010.80	0.0089	0.0081	

Venus	63068-03-03 17:46 G	24756236.20	24756236.24	24756236.31	0.0089	0.0086
Mars	63086-09-21 11:31 G	24763011.68	24763011.98	24763012.28	0.0088	0.0006
Venus	63129-04-21 12:58 G	24778564.04	24778564.04	24778564.10	0.0088	0.0087
Mercury	63129-05-15 17:46 G	24778588.19	24778588.24	24778588.33	0.0088	0.0080
Mercury	63129-08-11 20:53 G	24778676.28	24778676.37	24778676.49	0.0088	0.0070
Mercury	63129-11-08 00:00 G	24778764.37	24778764.50	24778764.63	0.0088	0.0060
Venus	63129-12-03 01:55 G	24778789.52	24778789.58	24778789.67	0.0088	0.0082
Mercury	63130-02-04 02:53 G	24778852.48	24778852.62	24778852.77	0.0088	0.0050
Mercury	63130-05-03 06:00 G	24778940.59	24778940.75	24778940.91	0.0088	0.0040
Venus	63130-07-16 14:24 G	24779015.02	24779015.10	24779015.22	0.0088	0.0078
Mercury	63130-07-30 08:38 G	24779028.70	24779028.86	24779029.04	0.0088	0.0031
Mercury	63130-10-26 11:46 G	24779116.82	24779116.99	24779117.17	0.0088	0.0021
Mercury	63131-01-22 14:38 G	24779204.94	24779205.11	24779205.30	0.0088	0.0011
Venus	63131-02-27 03:22 G	24779240.53	24779240.64	24779240.77	0.0088	0.0073
Mercury	63131-04-20 17:46 G	24779293.06	24779293.24	24779293.42	0.0088	0.0001
Mercury	63131-07-17 20:38 G	24779381.19	24779381.36	24779381.55	0.0088	0.0010
Venus	63131-10-10 15:36 G	24779466.04	24779466.15	24779466.31	0.0088	0.0069
Mercury	63131-10-13 23:46 G	24779469.32	24779469.49	24779469.67	0.0088	0.0020
Mercury	63132-01-10 02:38 G	24779557.45	24779557.61	24779557.79	0.0088	0.0030
Mercury	63132-04-07 05:46 G	24779645.58	24779645.74	24779645.91	0.0088	0.0040
Venus	63132-05-23 04:34 G	24779691.56	24779691.69	24779691.86	0.0088	0.0064
Mercury	63132-07-04 08:53 G	24779733.72	24779733.87	24779734.02	0.0088	0.0050
Mercury	63132-09-30 12:00 G	24779821.87	24779822.00	24779822.13	0.0088	0.0060
Mercury	63132-12-27 14:38 G	24779910.02	24779910.11	24779910.24	0.0088	0.0071
Venus	63133-01-03 17:31 G	24779917.07	24779917.23	24779917.40	0.0088	0.0059
Mercury	63133-03-25 17:46 G	24779998.19	24779998.24	24779998.33	0.0088	0.0082
Venus	63133-08-17 06:00 G	24780142.60	24780142.75	24780142.94	0.0088	0.0055
Moon	63133-11-27 15:22 G	24780245.09	24780245.14	24780245.20	0.0088	0.0086
Venus	63134-03-30 18:43 G	24780368.12	24780368.28	24780368.48	0.0088	0.0050
Venus	63134-11-11 07:41 G	24780593.64	24780593.82	24780594.02	0.0088	0.0045



Moon	63134-11-29 22:48 G	24780612.28	24780612.45	24780612.65	0.0088	0.0064
Earth	63134-11-30 01:12 G	24780612.37	24780612.55	24780612.75	0.0088	0.0059 *
Venus	63135-06-24 20:24 G	24780819.16	24780819.35	24780819.55	0.0088	0.0040
Earth	63135-12-02 12:58 G	24780979.80	24780980.04	24780980.28	0.0088	0.0030
Moon	63135-12-02 16:19 G	24780979.94	24780980.18	24780980.43	0.0088	0.0025 *
Venus	63136-02-05 09:22 G	24781044.69	24781044.89	24781045.09	0.0088	0.0036
Venus	63136-09-17 21:50 G	24781270.22	24781270.41	24781270.63	0.0088	0.0031
Moon	63136-12-03 20:53 G	24781347.11	24781347.37	24781347.63	0.0088	0.0004
Earth	63136-12-04 00:29 G	24781347.26	24781347.52	24781347.78	0.0088	0.0001 *
Venus	63137-05-01 10:48 G	24781495.75	24781495.95	24781496.17	0.0088	0.0026
Earth	63137-12-06 11:31 G	24781714.75	24781714.98	24781715.23	0.0088	0.0030
Moon	63137-12-06 15:22 G	24781714.90	24781715.14	24781715.38	0.0088	0.0035 *
Venus	63137-12-12 23:31 G	24781721.27	24781721.48	24781721.70	0.0088	0.0021
Venus	63138-07-26 12:14 G	24781946.80	24781947.01	24781947.23	0.0088	0.0016
Moon	63138-12-08 20:10 G	24782082.16	24782082.34	24782082.55	0.0088	0.0056
Earth	63138-12-08 22:48 G	24782082.28	24782082.45	24782082.66	0.0088	0.0060 *
Venus	63139-03-09 00:58 G	24782172.33	24782172.54	24782172.77	0.0088	0.0012
Venus	63139-10-20 13:55 G	24782397.86	24782398.08	24782398.30	0.0088	0.0006
Venus	63140-06-02 02:38 G	24782623.39	24782623.61	24782623.83	0.0088	0.0002
Venus	63141-01-13 15:22 G	24782848.92	24782849.14	24782849.36	0.0088	0.0004
Venus	63141-08-27 04:05 G	24783074.46	24783074.67	24783074.89	0.0088	0.0009
Venus	63142-04-09 16:48 G	24783299.99	24783300.20	24783300.42	0.0088	0.0014
Venus	63142-11-21 05:31 G	24783525.52	24783525.73	24783525.95	0.0088	0.0019
Venus	63143-07-04 18:14 G	24783751.06	24783751.26	24783751.48	0.0088	0.0024
Venus	63144-02-15 06:58 G	24783976.59	24783976.79	24783977.01	0.0088	0.0029
Venus	63144-09-27 19:55 G	24784202.14	24784202.33	24784202.55	0.0088	0.0033
Venus	63145-05-11 09:07 G	24784427.68	24784427.88	24784428.08	0.0088	0.0038
Venus	63145-12-22 21:50 G	24784653.22	24784653.41	24784653.60	0.0089	0.0043
Venus	63146-08-05 10:34 G	24784878.76	24784878.94	24784879.13	0.0089	0.0048
Venus	63147-03-18 23:17 G	24785104.31	24785104.47	24785104.66	0.0089	0.0053

Venus	63147-10-30 12:14 G	24785329.86	24785330.01	24785330.19	0.0089	0.0058
Jupiter	63148-03-04 10:05 G	24785455.42	24785455.92	24785456.47	0.0089	0.0029
Venus	63148-06-12 00:58 G	24785555.41	24785555.54	24785555.72	0.0089	0.0063
Venus	63149-01-23 14:10 G	24785780.96	24785781.09	24785781.24	0.0089	0.0067
Venus	63149-09-06 02:53 G	24786006.51	24786006.62	24786006.77	0.0089	0.0072
Venus	63150-04-19 15:36 G	24786232.07	24786232.15	24786232.29	0.0089	0.0077
Venus	63150-12-01 05:02 G	24786457.63	24786457.71	24786457.80	0.0089	0.0081
Venus	63151-07-14 17:31 G	24786683.20	24786683.23	24786683.31	0.0089	0.0086
Mars	63170-05-06 08:10 G	24793553.55	24793553.84	24793554.16	0.0089	0.0035
Mercury	63210-03-14 12:58 G	24808111.01	24808111.04	24808111.10	0.0089	0.0084
Mercury	63210-06-10 14:53 G	24808199.05	24808199.12	24808199.19	0.0089	0.0076
Mercury	63210-09-06 16:19 G	24808287.10	24808287.18	24808287.28	0.0089	0.0068
Venus	63210-10-25 17:17 G	24808336.18	24808336.22	24808336.31	0.0089	0.0086
Mercury	63210-12-03 18:00 G	24808375.15	24808375.25	24808375.36	0.0089	0.0059
Mercury	63211-03-01 19:41 G	24808463.21	24808463.32	24808463.44	0.0089	0.0051
Mercury	63211-05-28 21:22 G	24808551.27	24808551.39	24808551.51	0.0089	0.0043
Venus	63211-06-08 06:58 G	24808561.71	24808561.79	24808561.89	0.0089	0.0081
Mercury	63211-08-24 22:48 G	24808639.33	24808639.45	24808639.58	0.0089	0.0034
Mercury	63211-11-21 00:29 G	24808727.39	24808727.52	24808727.65	0.0089	0.0026
Venus	63212-01-19 20:38 G	24808787.24	24808787.36	24808787.47	0.0089	0.0076
Mercury	63212-02-17 01:55 G	24808815.45	24808815.58	24808815.72	0.0089	0.0018
Mercury	63212-05-15 03:36 G	24808903.51	24808903.65	24808903.79	0.0089	0.0010
Mercury	63212-08-11 05:17 G	24808991.58	24808991.72	24808991.86	0.0089	0.0003
Venus	63212-09-01 09:22 G	24809012.78	24809012.89	24809013.05	0.0089	0.0072
Mercury	63212-11-07 06:43 G	24809079.64	24809079.78	24809079.92	0.0089	0.0006
Mercury	63213-02-03 08:24 G	24809167.71	24809167.85	24809167.98	0.0089	0.0015
Venus	63213-04-14 23:02 G	24809238.33	24809238.46	24809238.62	0.0089	0.0066
Mercury	63213-05-02 09:50 G	24809255.77	24809255.91	24809256.04	0.0089	0.0022
Mercury	63213-07-29 11:17 G	24809343.84	24809343.97	24809344.10	0.0089	0.0031
Mercury	63213-10-25 12:43 G	24809431.91	24809432.03	24809432.16	0.0089	0.0039

Venus	63213-11-26 12:29 G	24809463.87	24809464.02	24809464.19	0.0089	0.0061
Mercury	63214-01-21 14:24 G	24809519.98	24809520.10	24809520.22	0.0089	0.0046
Mercury	63214-04-19 15:50 G	24809608.05	24809608.16	24809608.27	0.0089	0.0054
Venus	63214-07-10 01:55 G	24809689.42	24809689.58	24809689.76	0.0089	0.0056
Mercury	63214-07-16 17:17 G	24809696.13	24809696.22	24809696.32	0.0089	0.0062
Mercury	63214-10-12 18:43 G	24809784.20	24809784.28	24809784.37	0.0089	0.0070
Mercury	63215-01-08 20:10 G	24809872.29	24809872.34	24809872.42	0.0089	0.0078
Venus	63215-02-20 15:22 G	24809914.97	24809915.14	24809915.33	0.0089	0.0051
Mercury	63215-04-06 21:36 G	24809960.38	24809960.40	24809960.45	0.0089	0.0086
Earth	63215-05-27 11:02 G	24810010.87	24810010.96	24810011.08	0.0089	0.0081
Moon	63215-05-27 12:58 G	24810010.96	24810011.04	24810011.16	0.0089	0.0081 *
Venus	63215-10-04 04:34 G	24810140.51	24810140.69	24810140.89	0.0089	0.0047
Venus	63216-05-16 18:00 G	24810366.06	24810366.25	24810366.45	0.0089	0.0041
Moon	63216-05-28 19:26 G	24810378.12	24810378.31	24810378.55	0.0089	0.0051
Earth	63216-05-28 22:48 G	24810378.26	24810378.45	24810378.68	0.0089	0.0051 *
Venus	63216-12-28 07:12 G	24810591.61	24810591.80	24810592.01	0.0089	0.0037
Earth	63217-05-31 11:02 G	24810745.71	24810745.96	24810746.21	0.0089	0.0020
Moon	63217-05-31 14:10 G	24810745.86	24810746.09	24810746.35	0.0089	0.0020 *
Venus	63217-08-10 20:38 G	24810817.16	24810817.36	24810817.57	0.0089	0.0031
Venus	63218-03-24 10:05 G	24811042.71	24811042.92	24811043.13	0.0089	0.0026
Moon	63218-06-02 18:58 G	24811113.05	24811113.29	24811113.56	0.0089	0.0013
Earth	63218-06-02 22:34 G	24811113.19	24811113.44	24811113.70	0.0089	0.0011 *
Venus	63218-11-04 23:17 G	24811268.26	24811268.47	24811268.69	0.0089	0.0021
Earth	63219-06-05 10:19 G	24811480.71	24811480.93	24811481.17	0.0089	0.0041
Moon	63219-06-05 13:41 G	24811480.84	24811481.07	24811481.31	0.0089	0.0040 *
Venus	63219-06-18 12:29 G	24811493.81	24811494.02	24811494.24	0.0089	0.0016
Venus	63220-01-30 01:41 G	24811719.36	24811719.57	24811719.79	0.0089	0.0011
Moon	63220-06-06 20:10 G	24811848.20	24811848.34	24811848.49	0.0089	0.0072
Earth	63220-06-06 21:50 G	24811848.28	24811848.41	24811848.59	0.0089	0.0072 *
Venus	63220-09-11 15:07 G	24811944.91	24811945.13	24811945.35	0.0089	0.0006

Venus	63221-04-25 04:34 G	24812170.46	24812170.69	24812170.91	0.0089	0.0002
Venus	63221-12-06 17:46 G	24812396.02	24812396.24	24812396.46	0.0089	0.0004
Venus	63222-07-20 06:58 G	24812621.57	24812621.79	24812622.01	0.0089	0.0009
Venus	63223-03-02 20:10 G	24812847.13	24812847.34	24812847.56	0.0089	0.0014
Venus	63223-10-14 09:36 G	24813072.68	24813072.90	24813073.12	0.0089	0.0019
Venus	63224-05-26 22:48 G	24813298.24	24813298.45	24813298.67	0.0089	0.0024
Venus	63225-01-07 12:00 G	24813523.80	24813524.00	24813524.21	0.0089	0.0029
Venus	63225-08-21 01:26 G	24813749.36	24813749.56	24813749.76	0.0089	0.0034
Venus	63226-04-03 14:38 G	24813974.92	24813975.11	24813975.31	0.0089	0.0039
Venus	63226-11-15 03:50 G	24814200.48	24814200.66	24814200.86	0.0089	0.0044
Venus	63227-06-28 17:02 G	24814426.03	24814426.21	24814426.40	0.0089	0.0049
Venus	63228-02-09 06:00 G	24814651.59	24814651.75	24814651.94	0.0089	0.0054
Venus	63228-09-21 19:12 G	24814877.15	24814877.30	24814877.48	0.0089	0.0059
Venus	63229-05-05 08:24 G	24815102.72	24815102.85	24815103.02	0.0089	0.0064
Venus	63229-12-16 21:22 G	24815328.28	24815328.39	24815328.56	0.0089	0.0069
Venus	63230-07-30 10:48 G	24815553.84	24815553.95	24815554.08	0.0089	0.0073
Venus	63231-03-12 23:46 G	24815779.40	24815779.49	24815779.61	0.0089	0.0078
Venus	63231-10-24 12:43 G	24816004.98	24816005.03	24816005.13	0.0089	0.0083
Venus	63232-06-06 02:10 G	24816230.56	24816230.59	24816230.64	0.0089	0.0087
Mars	63250-05-07 10:48 G	24822774.77	24822774.95	24822775.17	0.0088	0.0066
Mars	63252-03-31 11:46 G	24823468.83	24823468.99	24823469.19	0.0088	0.0069
Venus	63293-07-23 22:48 G	24838558.41	24838558.45	24838558.51	0.0088	0.0085
Mercury	63293-11-13 12:58 G	24838671.03	24838671.04	24838671.10	0.0088	0.0086
Mercury	63294-02-09 16:05 G	24838759.09	24838759.17	24838759.27	0.0088	0.0076
Venus	63294-03-06 11:17 G	24838783.91	24838783.97	24838784.08	0.0088	0.0081
Mercury	63294-05-08 19:12 G	24838847.19	24838847.30	24838847.42	0.0088	0.0066
Mercury	63294-08-04 21:50 G	24838935.29	24838935.41	24838935.56	0.0088	0.0057
Venus	63294-10-18 00:14 G	24839009.41	24839009.51	24839009.63	0.0088	0.0076
Mercury	63294-11-01 00:43 G	24839023.39	24839023.53	24839023.70	0.0088	0.0047
Mercury	63295-01-28 03:50 G	24839111.50	24839111.66	24839111.83	0.0088	0.0037

Mercury	63295-04-26 06:43 G	24839199.62	24839199.78	24839199.96	0.0088	0.0027
Venus	63295-05-31 12:29 G	24839234.92	24839235.02	24839235.17	0.0088	0.0072
Mercury	63295-07-23 09:50 G	24839287.73	24839287.91	24839288.09	0.0088	0.0017
Mercury	63295-10-19 12:43 G	24839375.85	24839376.03	24839376.22	0.0088	0.0007
Venus	63296-01-12 01:26 G	24839460.43	24839460.56	24839460.71	0.0088	0.0067
Mercury	63296-01-15 15:50 G	24839463.98	24839464.16	24839464.34	0.0088	0.0003
Mercury	63296-04-12 18:43 G	24839552.10	24839552.28	24839552.46	0.0088	0.0013
Mercury	63296-07-09 21:36 G	24839640.23	24839640.40	24839640.58	0.0088	0.0023
Venus	63296-08-24 14:24 G	24839685.95	24839686.10	24839686.26	0.0088	0.0062
Mercury	63296-10-06 00:43 G	24839728.37	24839728.53	24839728.70	0.0088	0.0033
Mercury	63297-01-02 03:50 G	24839816.50	24839816.66	24839816.82	0.0088	0.0043
Mercury	63297-03-31 06:29 G	24839904.64	24839904.77	24839904.93	0.0088	0.0054
Venus	63297-04-07 02:53 G	24839911.47	24839911.62	24839911.80	0.0088	0.0058
Mercury	63297-06-27 09:36 G	24839992.79	24839992.90	24839993.04	0.0088	0.0064
Mercury	63297-09-23 12:43 G	24840080.94	24840081.03	24840081.14	0.0088	0.0074
Venus	63297-11-18 15:36 G	24840136.99	24840137.15	24840137.34	0.0088	0.0053
Mercury	63297-12-20 15:50 G	24840169.12	24840169.16	24840169.22	0.0088	0.0085
Venus	63298-07-02 04:19 G	24840362.50	24840362.68	24840362.87	0.0088	0.0048
Earth	63298-11-29 07:55 G	24840512.70	24840512.83	24840512.98	0.0088	0.0075
Moon	63298-11-29 11:02 G	24840512.86	24840512.96	24840513.10	0.0088	0.0077 *
Venus	63299-02-12 16:48 G	24840588.03	24840588.20	24840588.41	0.0088	0.0044
Venus	63299-09-26 05:46 G	24840813.56	24840813.74	24840813.95	0.0088	0.0039
Moon	63299-12-01 15:22 G	24840879.93	24840880.14	24840880.39	0.0088	0.0042
Earth	63299-12-01 19:12 G	24840880.10	24840880.30	24840880.54	0.0088	0.0045 *
Venus	63300-05-09 18:29 G	24841039.08	24841039.27	24841039.49	0.0088	0.0035
Earth	63300-12-04 06:58 G	24841247.54	24841247.79	24841248.05	0.0088	0.0015
Moon	63300-12-04 09:50 G	24841247.67	24841247.91	24841248.18	0.0088	0.0019 *
Venus	63300-12-21 07:26 G	24841264.61	24841264.81	24841265.02	0.0088	0.0029
Venus	63301-08-03 20:10 G	24841490.13	24841490.34	24841490.56	0.0088	0.0024
Moon	63301-12-06 16:05 G	24841614.92	24841615.17	24841615.42	0.0088	0.0017

Earth	63301-12-06 18:43 G	24841615.02	24841615.28	24841615.53	0.0088	0.0015	*
Venus	63302-03-17 08:53 G	24841715.66	24841715.87	24841716.09	0.0088	0.0020	
Venus	63302-10-28 21:50 G	24841941.20	24841941.41	24841941.63	0.0088	0.0015	
Earth	63302-12-09 05:46 G	24841982.53	24841982.74	24841982.98	0.0088	0.0045	
Moon	63302-12-09 07:12 G	24841982.59	24841982.80	24841983.06	0.0088	0.0042	*
Venus	63303-06-11 10:34 G	24842166.72	24842166.94	24842167.16	0.0088	0.0010	
Earth	63303-12-11 17:02 G	24842350.10	24842350.21	24842350.37	0.0088	0.0074	
Moon	63303-12-11 17:31 G	24842350.11	24842350.23	24842350.36	0.0088	0.0077	*
Venus	63304-01-22 23:17 G	24842392.25	24842392.47	24842392.69	0.0088	0.0005	
Venus	63304-09-04 12:14 G	24842617.79	24842618.01	24842618.23	0.0088	0.0000	
Venus	63305-04-18 00:58 G	24842843.32	24842843.54	24842843.76	0.0088	0.0005	
Venus	63305-11-29 13:41 G	24843068.85	24843069.07	24843069.29	0.0088	0.0010	
Venus	63306-07-13 02:10 G	24843294.38	24843294.59	24843294.82	0.0088	0.0016	
Venus	63307-02-23 15:07 G	24843519.92	24843520.13	24843520.34	0.0088	0.0020	
Venus	63307-10-07 04:05 G	24843745.46	24843745.67	24843745.88	0.0088	0.0025	
Venus	63308-05-19 16:34 G	24843970.99	24843971.19	24843971.41	0.0088	0.0030	
Venus	63308-12-31 05:17 G	24844196.53	24844196.72	24844196.93	0.0088	0.0035	
Venus	63309-08-13 18:00 G	24844422.06	24844422.25	24844422.46	0.0088	0.0040	
Venus	63310-03-27 06:43 G	24844647.60	24844647.78	24844647.98	0.0089	0.0045	
Venus	63310-11-07 19:26 G	24844873.15	24844873.31	24844873.51	0.0089	0.0050	
Venus	63311-06-21 08:38 G	24845098.69	24845098.86	24845099.04	0.0089	0.0054	
Venus	63312-02-01 21:07 G	24845324.24	24845324.38	24845324.56	0.0089	0.0059	
Venus	63312-09-14 10:05 G	24845549.78	24845549.92	24845550.09	0.0089	0.0064	
Venus	63313-04-27 22:48 G	24845775.34	24845775.45	24845775.61	0.0089	0.0069	
Venus	63313-12-09 12:00 G	24846000.89	24846001.00	24846001.13	0.0089	0.0073	
Jupiter	63314-05-08 18:00 G	24846150.74	24846151.25	24846151.83	0.0089	0.0018	
Venus	63314-07-23 00:43 G	24846226.44	24846226.53	24846226.65	0.0089	0.0078	
Venus	63315-03-05 13:55 G	24846452.00	24846452.08	24846452.16	0.0089	0.0082	
Venus	63315-10-17 02:38 G	24846677.59	24846677.61	24846677.67	0.0089	0.0087	
Mars	63333-12-19 00:29 G	24853315.23	24853315.52	24853315.84	0.0089	0.0035	

Venus	63374-06-16 12:14 G	24868105.00	24868105.01	24868105.04	0.0089	0.0089
Mercury	63374-12-10 12:14 G	24868281.96	24868282.01	24868282.06	0.0089	0.0082
Venus	63375-01-28 01:12 G	24868330.51	24868330.55	24868330.65	0.0089	0.0085
Mercury	63375-03-08 13:41 G	24868370.00	24868370.07	24868370.16	0.0089	0.0074
Mercury	63375-06-04 15:22 G	24868458.05	24868458.14	24868458.24	0.0089	0.0065
Mercury	63375-08-31 16:48 G	24868546.10	24868546.20	24868546.32	0.0089	0.0057
Venus	63375-09-10 14:53 G	24868556.04	24868556.12	24868556.23	0.0089	0.0080
Mercury	63375-11-27 18:43 G	24868634.16	24868634.28	24868634.40	0.0089	0.0049
Mercury	63376-02-23 20:10 G	24868722.22	24868722.34	24868722.47	0.0089	0.0041
Venus	63376-04-23 04:19 G	24868781.57	24868781.68	24868781.81	0.0089	0.0075
Mercury	63376-05-21 21:50 G	24868810.28	24868810.41	24868810.54	0.0089	0.0032
Mercury	63376-08-17 23:17 G	24868898.34	24868898.47	24868898.61	0.0089	0.0024
Mercury	63376-11-14 00:58 G	24868986.40	24868986.54	24868986.68	0.0089	0.0016
Venus	63376-12-04 17:46 G	24869007.11	24869007.24	24869007.39	0.0089	0.0070
Mercury	63377-02-10 02:38 G	24869074.47	24869074.61	24869074.75	0.0089	0.0008
Mercury	63377-05-09 04:05 G	24869162.53	24869162.67	24869162.81	0.0089	0.0001
Venus	63377-07-18 06:43 G	24869232.66	24869232.78	24869232.96	0.0089	0.0066
Mercury	63377-08-05 05:46 G	24869250.60	24869250.74	24869250.88	0.0089	0.0009
Mercury	63377-11-01 07:12 G	24869338.66	24869338.80	24869338.94	0.0089	0.0016
Mercury	63378-01-28 08:38 G	24869426.73	24869426.86	24869427.00	0.0089	0.0025
Venus	63378-02-28 20:24 G	24869458.21	24869458.35	24869458.53	0.0089	0.0060
Mercury	63378-04-26 10:19 G	24869514.80	24869514.93	24869515.06	0.0089	0.0032
Mercury	63378-07-23 11:46 G	24869602.87	24869602.99	24869603.12	0.0089	0.0041
Venus	63378-10-12 09:50 G	24869683.75	24869683.91	24869684.10	0.0089	0.0055
Mercury	63378-10-19 13:12 G	24869690.94	24869691.05	24869691.17	0.0089	0.0049
Mercury	63379-01-15 14:38 G	24869779.01	24869779.11	24869779.23	0.0089	0.0057
Mercury	63379-04-13 16:19 G	24869867.09	24869867.18	24869867.28	0.0089	0.0064
Venus	63379-05-25 23:17 G	24869909.30	24869909.47	24869909.66	0.0089	0.0050
Mercury	63379-07-10 17:46 G	24869955.17	24869955.24	24869955.33	0.0089	0.0072
Mercury	63379-10-06 19:12 G	24870043.25	24870043.30	24870043.37	0.0089	0.0080

Mercury	63380-01-02 20:38 G	24870131.35	24870131.36	24870131.39	0.0089	0.0088
Venus	63380-01-06 12:29 G	24870134.85	24870135.02	24870135.23	0.0089	0.0046
Earth	63380-05-29 04:48 G	24870278.54	24870278.70	24870278.87	0.0089	0.0067
Moon	63380-05-29 08:24 G	24870278.68	24870278.85	24870279.04	0.0089	0.0062 *
Venus	63380-08-19 01:55 G	24870360.40	24870360.58	24870360.79	0.0089	0.0040
Venus	63381-04-01 15:22 G	24870585.95	24870586.14	24870586.36	0.0089	0.0035
Moon	63381-05-31 12:58 G	24870645.84	24870646.04	24870646.29	0.0089	0.0042
Earth	63381-05-31 16:19 G	24870645.96	24870646.18	24870646.43	0.0089	0.0036 *
Venus	63381-11-13 04:48 G	24870811.50	24870811.70	24870811.91	0.0089	0.0030
Earth	63382-06-03 04:19 G	24871013.43	24871013.68	24871013.94	0.0089	0.0006
Moon	63382-06-03 07:12 G	24871013.54	24871013.80	24871014.07	0.0089	0.0002 *
Venus	63382-06-26 18:00 G	24871037.05	24871037.25	24871037.47	0.0089	0.0025
Venus	63383-02-07 07:12 G	24871262.60	24871262.80	24871263.03	0.0089	0.0020
Moon	63383-06-05 14:10 G	24871380.85	24871381.09	24871381.34	0.0089	0.0020
Earth	63383-06-05 15:50 G	24871380.93	24871381.16	24871381.42	0.0089	0.0025 *
Venus	63383-09-20 20:38 G	24871488.15	24871488.36	24871488.58	0.0089	0.0015
Venus	63384-05-03 09:50 G	24871713.70	24871713.91	24871714.14	0.0089	0.0011
Earth	63384-06-07 03:36 G	24871748.46	24871748.65	24871748.86	0.0089	0.0055
Moon	63384-06-07 03:36 G	24871748.48	24871748.65	24871748.87	0.0089	0.0060 *
Venus	63384-12-14 23:17 G	24871939.25	24871939.47	24871939.69	0.0089	0.0005
Moon	63385-06-09 15:50 G	24872116.07	24872116.16	24872116.27	0.0089	0.0081
Earth	63385-06-09 15:36 G	24872116.08	24872116.15	24872116.22	0.0089	0.0086 *
Venus	63385-07-28 12:29 G	24872164.80	24872165.02	24872165.24	0.0089	0.0000
Venus	63386-03-11 01:41 G	24872390.36	24872390.57	24872390.80	0.0089	0.0006
Venus	63386-10-22 15:07 G	24872615.91	24872616.13	24872616.35	0.0089	0.0010
Venus	63387-06-05 04:19 G	24872841.46	24872841.68	24872841.90	0.0089	0.0015
Venus	63388-01-16 17:31 G	24873067.01	24873067.23	24873067.44	0.0089	0.0020
Venus	63388-08-29 06:43 G	24873292.57	24873292.78	24873292.99	0.0089	0.0025
Venus	63389-04-11 20:10 G	24873518.13	24873518.34	24873518.55	0.0089	0.0030
Venus	63389-11-23 09:22 G	24873743.69	24873743.89	24873744.10	0.0089	0.0035



Venus	63390-07-06 22:34 G	24873969.25	24873969.44	24873969.64	0.0089	0.0040
Venus	63391-02-17 11:46 G	24874194.81	24874194.99	24874195.19	0.0089	0.0045
Venus	63391-10-01 00:58 G	24874420.37	24874420.54	24874420.73	0.0089	0.0050
Venus	63392-05-13 14:24 G	24874645.93	24874646.10	24874646.28	0.0089	0.0055
Venus	63392-12-25 03:22 G	24874871.49	24874871.64	24874871.82	0.0089	0.0060
Venus	63393-08-07 16:34 G	24875097.05	24875097.19	24875097.35	0.0089	0.0065
Venus	63394-03-21 05:31 G	24875322.62	24875322.73	24875322.89	0.0089	0.0070
Venus	63394-11-01 19:12 G	24875548.19	24875548.30	24875548.42	0.0089	0.0074
Venus	63395-06-15 08:10 G	24875773.75	24875773.84	24875773.95	0.0089	0.0079
Venus	63396-01-26 20:53 G	24875999.33	24875999.37	24875999.47	0.0089	0.0084
Venus	63396-09-08 10:19 G	24876224.92	24876224.93	24876224.97	0.0089	0.0088
Mars	63415-11-16 12:43 G	24883231.74	24883232.03	24883232.33	0.0088	0.0011
Venus	63457-10-27 08:10 G	24898552.80	24898552.84	24898552.94	0.0088	0.0084
Venus	63458-06-09 21:07 G	24898778.30	24898778.38	24898778.49	0.0088	0.0079
Mercury	63458-08-12 11:17 G	24898841.92	24898841.97	24898842.05	0.0088	0.0082
Mercury	63458-11-08 14:24 G	24898930.01	24898930.10	24898930.21	0.0088	0.0072
Venus	63459-01-21 09:36 G	24899003.81	24899003.90	24899004.04	0.0088	0.0075
Mercury	63459-02-04 17:03 G	24899018.10	24899018.21	24899018.35	0.0088	0.0063
Mercury	63459-05-03 19:55 G	24899106.20	24899106.33	24899106.49	0.0088	0.0053
Mercury	63459-07-30 23:03 G	24899194.31	24899194.46	24899194.62	0.0088	0.0043
Venus	63459-09-03 22:34 G	24899229.33	24899229.44	24899229.59	0.0088	0.0070
Mercury	63459-10-27 01:55 G	24899282.42	24899282.58	24899282.76	0.0088	0.0033
Mercury	63460-01-23 05:03 G	24899370.54	24899370.71	24899370.89	0.0088	0.0023
Venus	63460-04-16 11:31 G	24899454.84	24899454.98	24899455.13	0.0088	0.0065
Mercury	63460-04-20 07:55 G	24899458.66	24899458.83	24899459.01	0.0088	0.0013
Mercury	63460-07-17 11:03 G	24899546.78	24899546.96	24899547.14	0.0088	0.0004
Mercury	63460-10-13 13:55 G	24899634.90	24899635.08	24899635.26	0.0088	0.0007
Venus	63460-11-27 23:46 G	24899680.35	24899680.49	24899680.67	0.0088	0.0061
Mercury	63461-01-09 16:48 G	24899723.03	24899723.20	24899723.38	0.0088	0.0017
Mercury	63461-04-07 19:41 G	24899811.16	24899811.32	24899811.50	0.0088	0.0027

Mercury	63461-07-04 22:34 G	24899899.29	24899899.44	24899899.62	0.0088	0.0038
Venus	63461-07-11 12:29 G	24899905.87	24899906.02	24899906.20	0.0088	0.0056
Mercury	63461-10-01 01:41 G	24899987.43	24899987.57	24899987.73	0.0088	0.0047
Mercury	63461-12-28 04:48 G	24900075.57	24900075.70	24900075.84	0.0088	0.0057
Venus	63462-02-22 00:58 G	24900131.38	24900131.54	24900131.74	0.0088	0.0052
Mercury	63462-03-26 07:55 G	24900163.72	24900163.83	24900163.95	0.0088	0.0067
Mercury	63462-06-22 10:34 G	24900251.88	24900251.94	24900252.04	0.0088	0.0078
Mercury	63462-09-18 13:55 G	24900340.08	24900340.08	24900340.09	0.0088	0.0088
Venus	63462-10-05 13:55 G	24900356.91	24900357.08	24900357.28	0.0088	0.0047
Moon	63462-11-30 11:46 G	24900412.95	24900412.99	24900413.04	0.0088	0.0086
Venus	63463-05-19 02:39 G	24900582.43	24900582.61	24900582.82	0.0088	0.0042
Earth	63463-12-03 02:10 G	24900780.42	24900780.59	24900780.80	0.0088	0.0060
Moon	63463-12-03 05:17 G	24900780.56	24900780.72	24900780.92	0.0088	0.0064 *
Venus	63463-12-30 15:22 G	24900807.95	24900808.14	24900808.35	0.0088	0.0038
Venus	63464-08-12 04:19 G	24901033.48	24901033.68	24901033.89	0.0088	0.0032
Moon	63464-12-04 12:15 G	24901147.78	24901148.01	24901148.26	0.0088	0.0028
Earth	63464-12-04 13:55 G	24901147.85	24901148.08	24901148.33	0.0088	0.0031 *
Venus	63465-03-25 16:48 G	24901259.00	24901259.20	24901259.42	0.0088	0.0028
Venus	63465-11-06 05:31 G	24901484.53	24901484.73	24901484.96	0.0088	0.0023
Earth	63465-12-07 01:41 G	24901515.31	24901515.57	24901515.83	0.0088	0.0001
Moon	63465-12-07 02:39 G	24901515.34	24901515.61	24901515.88	0.0088	0.0004 *
Venus	63466-06-19 18:29 G	24901710.06	24901710.27	24901710.49	0.0088	0.0018
Earth	63466-12-09 12:58 G	24901882.80	24901883.04	24901883.29	0.0088	0.0029
Moon	63466-12-09 12:58 G	24901882.82	24901883.04	24901883.29	0.0088	0.0033 *
Venus	63467-01-31 07:12 G	24901935.59	24901935.80	24901936.02	0.0088	0.0013
Venus	63467-09-13 20:10 G	24902161.12	24902161.34	24902161.56	0.0088	0.0008
Moon	63467-12-11 22:05 G	24902250.24	24902250.42	24902250.65	0.0088	0.0056
Earth	63467-12-12 00:00 G	24902250.33	24902250.50	24902250.72	0.0088	0.0059 *
Venus	63468-04-26 09:07 G	24902386.66	24902386.88	24902387.10	0.0088	0.0003
Venus	63468-12-07 21:51 G	24902612.19	24902612.41	24902612.63	0.0088	0.0002

Venus	63469-07-21 10:34 G	24902837.72	24902837.94	24902838.16	0.0088	0.0007
Venus	63470-03-03 23:17 G	24903063.25	24903063.47	24903063.69	0.0088	0.0012
Venus	63470-10-15 12:15 G	24903288.79	24903289.01	24903289.23	0.0088	0.0016
Venus	63471-05-29 00:43 G	24903514.33	24903514.53	24903514.75	0.0088	0.0022
Venus	63472-01-09 13:27 G	24903739.86	24903740.06	24903740.28	0.0088	0.0027
Venus	63472-08-22 02:10 G	24903965.40	24903965.59	24903965.81	0.0088	0.0032
Venus	63473-04-04 14:53 G	24904190.94	24904191.12	24904191.34	0.0088	0.0037
Venus	63473-11-16 04:05 G	24904416.48	24904416.67	24904416.86	0.0088	0.0041
Venus	63474-06-29 16:34 G	24904642.01	24904642.19	24904642.39	0.0088	0.0046
Venus	63475-02-10 05:17 G	24904867.55	24904867.72	24904867.91	0.0089	0.0051
Venus	63475-09-23 18:00 G	24905093.10	24905093.25	24905093.44	0.0089	0.0056
Venus	63476-05-06 07:27 G	24905318.65	24905318.81	24905318.97	0.0089	0.0060
Venus	63476-12-17 19:55 G	24905544.19	24905544.33	24905544.49	0.0089	0.0065
Venus	63477-07-31 08:24 G	24905769.74	24905769.85	24905770.01	0.0089	0.0070
Venus	63478-03-13 21:07 G	24905995.29	24905995.38	24905995.53	0.0089	0.0075
Venus	63478-10-25 10:34 G	24906220.85	24906220.94	24906221.05	0.0089	0.0079
Venus	63479-06-07 23:03 G	24906446.42	24906446.46	24906446.56	0.0089	0.0084
Venus	63480-01-19 12:15 G	24906672.00	24906672.01	24906672.05	0.0089	0.0088
Jupiter	63480-07-08 15:51 G	24906842.80	24906843.16	24906843.62	0.0089	0.0060
Mars	63499-06-29 10:48 G	24913772.69	24913772.95	24913773.21	0.0089	0.0054
Venus	63538-09-19 20:24 G	24928099.33	24928099.35	24928099.42	0.0089	0.0088
Venus	63539-05-03 10:05 G	24928324.85	24928324.92	24928325.01	0.0089	0.0083
Mercury	63539-06-12 09:36 G	24928364.88	24928364.90	24928364.92	0.0089	0.0088
Mercury	63539-09-08 11:03 G	24928452.91	24928452.96	24928453.03	0.0089	0.0080
Mercury	63539-12-05 12:29 G	24928540.95	24928541.02	24928541.12	0.0089	0.0072
Venus	63539-12-14 23:03 G	24928550.38	24928550.46	24928550.59	0.0089	0.0079
Mercury	63540-03-02 14:10 G	24928629.00	24928629.09	24928629.20	0.0089	0.0063
Mercury	63540-05-29 16:05 G	24928717.06	24928717.17	24928717.28	0.0089	0.0055
Venus	63540-07-27 12:29 G	24928775.92	24928776.02	24928776.16	0.0089	0.0074
Mercury	63540-08-25 17:31 G	24928805.12	24928805.23	24928805.36	0.0089	0.0047

Mercury	63540-11-21 19:12 G	24928893.18	24928893.30	24928893.43	0.0089	0.0038
Mercury	63541-02-17 20:39 G	24928981.24	24928981.36	24928981.50	0.0089	0.0031
Venus	63541-03-10 02:10 G	24929001.46	24929001.59	24929001.74	0.0089	0.0069
Mercury	63541-05-16 22:19 G	24929069.30	24929069.43	24929069.57	0.0089	0.0022
Mercury	63541-08-13 00:00 G	24929157.36	24929157.50	24929157.64	0.0089	0.0014
Venus	63541-10-21 15:36 G	24929227.00	24929227.15	24929227.31	0.0089	0.0064
Mercury	63541-11-09 01:27 G	24929245.43	24929245.56	24929245.71	0.0089	0.0007
Mercury	63542-02-05 03:07 G	24929333.49	24929333.63	24929333.77	0.0089	0.0003
Mercury	63542-05-04 04:34 G	24929421.56	24929421.69	24929421.83	0.0089	0.0011
Venus	63542-06-04 05:03 G	24929452.55	24929452.71	24929452.88	0.0089	0.0059
Mercury	63542-07-31 06:15 G	24929509.62	24929509.76	24929509.90	0.0089	0.0019
Mercury	63542-10-27 07:41 G	24929597.69	24929597.82	24929597.96	0.0089	0.0027
Venus	63543-01-15 18:29 G	24929678.09	24929678.27	24929678.44	0.0089	0.0054
Mercury	63543-01-23 09:07 G	24929685.76	24929685.88	24929686.02	0.0089	0.0035
Mercury	63543-04-21 10:34 G	24929773.83	24929773.94	24929774.07	0.0089	0.0044
Mercury	63543-07-18 12:15 G	24929861.90	24929862.01	24929862.13	0.0089	0.0051
Venus	63543-08-29 07:27 G	24929903.64	24929903.81	24929904.01	0.0089	0.0049
Mercury	63543-10-14 13:55 G	24929949.98	24929950.08	24929950.18	0.0089	0.0059
Mercury	63544-01-10 15:22 G	24930038.05	24930038.14	24930038.24	0.0089	0.0067
Mercury	63544-04-07 16:48 G	24930126.13	24930126.20	24930126.28	0.0089	0.0075
Venus	63544-04-10 20:53 G	24930129.20	24930129.37	24930129.58	0.0089	0.0045
Moon	63544-05-30 06:58 G	24930178.72	24930178.79	24930178.92	0.0089	0.0082
Earth	63544-05-30 10:48 G	24930178.86	24930178.95	24930179.05	0.0089	0.0083 *
Mercury	63544-07-04 18:15 G	24930214.22	24930214.26	24930214.32	0.0089	0.0083
Venus	63544-11-22 10:19 G	24930354.75	24930354.93	24930355.15	0.0089	0.0039
Earth	63545-06-01 22:19 G	24930546.24	24930546.43	24930546.66	0.0089	0.0053
Moon	63545-06-02 00:43 G	24930546.33	24930546.53	24930546.75	0.0089	0.0054 *
Venus	63545-07-05 23:46 G	24930580.30	24930580.49	24930580.71	0.0089	0.0034
Venus	63546-02-16 13:27 G	24930805.85	24930806.06	24930806.27	0.0089	0.0029
Moon	63546-06-04 09:22 G	24930913.66	24930913.89	24930914.14	0.0089	0.0021

Earth	63546-06-04 10:48 G	24930913.70	24930913.95	24930914.20	0.0089	0.0022	*
Venus	63546-09-30 02:53 G	24931031.41	24931031.62	24931031.83	0.0089	0.0024	
Venus	63547-05-13 16:05 G	24931256.96	24931257.17	24931257.39	0.0089	0.0019	
Earth	63547-06-06 22:19 G	24931281.18	24931281.43	24931281.69	0.0089	0.0009	
Moon	63547-06-06 22:48 G	24931281.18	24931281.45	24931281.71	0.0089	0.0008	*
Venus	63547-12-25 05:31 G	24931482.51	24931482.73	24931482.95	0.0089	0.0014	
Earth	63548-06-08 10:05 G	24931648.70	24931648.92	24931649.16	0.0089	0.0040	
Moon	63548-06-08 11:17 G	24931648.77	24931648.97	24931649.22	0.0089	0.0042	*
Venus	63548-08-06 18:43 G	24931708.06	24931708.28	24931708.50	0.0089	0.0008	
Venus	63549-03-20 08:10 G	24931933.62	24931933.84	24931934.06	0.0089	0.0003	
Moon	63549-06-10 18:58 G	24932016.16	24932016.29	24932016.49	0.0089	0.0069	
Earth	63549-06-10 21:22 G	24932016.26	24932016.39	24932016.58	0.0089	0.0070	*
Venus	63549-10-31 21:22 G	24932159.17	24932159.39	24932159.61	0.0089	0.0002	
Venus	63550-06-14 10:34 G	24932384.72	24932384.94	24932385.16	0.0089	0.0007	
Venus	63551-01-25 23:31 G	24932610.27	24932610.48	24932610.71	0.0089	0.0012	
Venus	63551-09-08 12:43 G	24932835.83	24932836.03	24932836.26	0.0089	0.0017	
Venus	63552-04-21 02:10 G	24933061.39	24933061.59	24933061.81	0.0089	0.0022	
Venus	63552-12-02 15:22 G	24933286.94	24933287.14	24933287.36	0.0089	0.0027	
Venus	63553-07-16 04:34 G	24933512.49	24933512.69	24933512.91	0.0089	0.0032	
Venus	63554-02-26 17:46 G	24933738.05	24933738.24	24933738.45	0.0089	0.0037	
Venus	63554-10-10 06:58 G	24933963.61	24933963.79	24933964.00	0.0089	0.0042	
Venus	63555-05-23 20:10 G	24934189.17	24934189.34	24934189.55	0.0089	0.0047	
Venus	63556-01-04 09:22 G	24934414.73	24934414.89	24934415.09	0.0089	0.0052	
Venus	63556-08-16 22:34 G	24934640.29	24934640.44	24934640.63	0.0089	0.0057	
Venus	63557-03-30 12:29 G	24934865.86	24934866.02	24934866.18	0.0089	0.0061	
Venus	63557-11-11 01:27 G	24935091.42	24935091.56	24935091.72	0.0089	0.0066	
Venus	63558-06-24 14:24 G	24935316.99	24935317.10	24935317.25	0.0089	0.0071	
Venus	63559-02-05 03:36 G	24935542.55	24935542.65	24935542.78	0.0089	0.0076	
Venus	63559-09-18 17:03 G	24935768.13	24935768.21	24935768.31	0.0089	0.0080	
Venus	63560-05-01 06:00 G	24935993.71	24935993.75	24935993.84	0.0089	0.0085	

Mars	63579-07-02 14:10 G	24942994.86	24942995.09	24942995.36	0.0088	0.0048
Venus	63621-06-18 05:31 G	24958321.73	24958321.73	24958321.80	0.0088	0.0087
Venus	63622-01-29 18:43 G	24958547.22	24958547.28	24958547.37	0.0088	0.0082
Venus	63622-09-12 07:12 G	24958772.73	24958772.80	24958772.93	0.0088	0.0078
Mercury	63623-02-11 06:58 G	24958924.78	24958924.79	24958924.82	0.0088	0.0087
Venus	63623-04-25 20:10 G	24958998.24	24958998.34	24958998.48	0.0088	0.0073
Mercury	63623-05-10 09:36 G	24959012.84	24959012.90	24959013.00	0.0088	0.0078
Mercury	63623-08-06 12:43 G	24959100.93	24959101.03	24959101.15	0.0088	0.0068
Mercury	63623-11-02 15:36 G	24959189.03	24959189.15	24959189.29	0.0088	0.0058
Venus	63623-12-07 09:07 G	24959223.75	24959223.88	24959224.02	0.0088	0.0068
Mercury	63624-01-29 18:43 G	24959277.13	24959277.28	24959277.43	0.0088	0.0048
Mercury	63624-04-26 21:36 G	24959365.24	24959365.40	24959365.56	0.0088	0.0038
Venus	63624-07-19 21:22 G	24959449.26	24959449.39	24959449.56	0.0088	0.0064
Mercury	63624-07-24 00:15 G	24959453.35	24959453.51	24959453.69	0.0088	0.0029
Mercury	63624-10-20 03:22 G	24959541.47	24959541.64	24959541.82	0.0088	0.0019
Mercury	63625-01-16 06:29 G	24959629.59	24959629.77	24959629.95	0.0088	0.0009
Venus	63625-03-02 10:19 G	24959674.78	24959674.93	24959675.10	0.0088	0.0059
Mercury	63625-04-14 09:22 G	24959717.71	24959717.89	24959718.07	0.0088	0.0001
Mercury	63625-07-11 12:15 G	24959805.84	24959806.01	24959806.19	0.0088	0.0012
Mercury	63625-10-07 15:22 G	24959893.96	24959894.14	24959894.32	0.0088	0.0021
Venus	63625-10-13 23:17 G	24959900.30	24959900.47	24959900.64	0.0088	0.0054
Mercury	63626-01-03 18:15 G	24959982.09	24959982.26	24959982.43	0.0088	0.0031
Mercury	63626-04-01 21:22 G	24960070.23	24960070.39	24960070.55	0.0088	0.0041
Venus	63626-05-27 11:31 G	24960125.82	24960125.98	24960126.18	0.0088	0.0050
Mercury	63626-06-29 00:00 G	24960158.37	24960158.50	24960158.66	0.0088	0.0052
Mercury	63626-09-25 02:53 G	24960246.51	24960246.62	24960246.77	0.0088	0.0062
Mercury	63626-12-22 06:00 G	24960334.66	24960334.75	24960334.87	0.0088	0.0072
Venus	63627-01-08 00:15 G	24960351.34	24960351.51	24960351.71	0.0088	0.0045
Mercury	63627-03-20 09:07 G	24960422.83	24960422.88	24960422.95	0.0088	0.0082
Venus	63627-08-21 13:12 G	24960576.86	24960577.05	24960577.25	0.0088	0.0040

Moon	63627-12-03 08:39 G	24960680.77	24960680.86	24960680.99	0.0088	0.0079
Earth	63627-12-03 10:48 G	24960680.82	24960680.95	24960681.09	0.0088	0.0074 *
Venus	63628-04-03 01:55 G	24960802.38	24960802.58	24960802.78	0.0088	0.0036
Venus	63628-11-14 14:24 G	24961027.90	24961028.10	24961028.32	0.0088	0.0031
Moon	63628-12-04 21:51 G	24961048.19	24961048.41	24961048.67	0.0088	0.0042
Earth	63628-12-04 21:51 G	24961048.21	24961048.41	24961048.65	0.0088	0.0045 *
Venus	63629-06-28 03:07 G	24961253.43	24961253.63	24961253.85	0.0088	0.0026
Earth	63629-12-07 09:36 G	24961415.65	24961415.90	24961416.16	0.0088	0.0015
Moon	63629-12-07 10:19 G	24961415.70	24961415.93	24961416.19	0.0088	0.0019 *
Venus	63630-02-08 15:51 G	24961478.95	24961479.16	24961479.38	0.0088	0.0021
Venus	63630-09-22 04:48 G	24961704.49	24961704.70	24961704.92	0.0088	0.0016
Moon	63630-12-09 18:43 G	24961783.04	24961783.28	24961783.56	0.0088	0.0019
Earth	63630-12-09 20:53 G	24961783.12	24961783.37	24961783.63	0.0088	0.0014 *
Venus	63631-05-05 17:31 G	24961930.02	24961930.23	24961930.45	0.0088	0.0011
Earth	63631-12-12 08:10 G	24962150.63	24962150.84	24962151.08	0.0088	0.0044
Moon	63631-12-12 11:17 G	24962150.76	24962150.97	24962151.21	0.0088	0.0040 *
Venus	63631-12-17 06:15 G	24962155.54	24962155.76	24962155.98	0.0088	0.0007
Venus	63632-07-29 18:58 G	24962381.07	24962381.29	24962381.51	0.0088	0.0002
Moon	63632-12-13 16:05 G	24962518.07	24962518.17	24962518.32	0.0088	0.0078
Earth	63632-12-13 19:55 G	24962518.20	24962518.33	24962518.48	0.0088	0.0074 *
Venus	63633-03-12 07:41 G	24962606.60	24962606.82	24962607.04	0.0088	0.0004
Venus	63633-10-23 20:39 G	24962832.14	24962832.36	24962832.58	0.0088	0.0008
Venus	63634-06-06 09:22 G	24963057.68	24963057.89	24963058.11	0.0088	0.0013
Venus	63635-01-17 22:05 G	24963283.21	24963283.42	24963283.64	0.0088	0.0018
Venus	63635-08-31 10:48 G	24963508.75	24963508.95	24963509.17	0.0088	0.0023
Venus	63636-04-12 23:31 G	24963734.28	24963734.48	24963734.70	0.0088	0.0028
Venus	63636-11-24 12:29 G	24963959.82	24963960.02	24963960.23	0.0088	0.0033
Venus	63637-07-08 01:12 G	24964185.36	24964185.55	24964185.75	0.0088	0.0038
Venus	63638-02-18 13:55 G	24964410.90	24964411.08	24964411.28	0.0088	0.0043
Venus	63638-10-02 02:39 G	24964636.44	24964636.61	24964636.81	0.0088	0.0048

Venus	63639-05-15 15:22 G	24964861.98	24964862.14	24964862.34	0.0089	0.0053
Venus	63639-12-27 04:19 G	24965087.52	24965087.68	24965087.86	0.0089	0.0057
Venus	63640-08-08 16:48 G	24965313.06	24965313.20	24965313.38	0.0089	0.0062
Venus	63641-03-22 05:31 G	24965538.61	24965538.73	24965538.90	0.0089	0.0067
Venus	63641-11-02 18:43 G	24965764.16	24965764.28	24965764.42	0.0089	0.0071
Venus	63642-06-16 07:27 G	24965989.71	24965989.81	24965989.94	0.0089	0.0076
Venus	63643-01-27 20:39 G	24966215.27	24966215.36	24966215.45	0.0089	0.0080
Venus	63643-09-10 09:07 G	24966440.83	24966440.88	24966440.96	0.0089	0.0085
Mars	63663-02-11 07:55 G	24973534.52	24973534.83	24973535.16	0.0089	0.0012
Venus	63702-12-23 06:00 G	24988093.70	24988093.75	24988093.81	0.0089	0.0086
Venus	63703-08-05 18:58 G	24988319.22	24988319.29	24988319.40	0.0089	0.0082
Mercury	63704-03-09 08:39 G	24988535.83	24988535.86	24988535.91	0.0089	0.0085
Venus	63704-03-18 08:24 G	24988544.76	24988544.85	24988544.98	0.0089	0.0077
Mercury	63704-06-05 10:19 G	24988623.86	24988623.93	24988624.01	0.0089	0.0076
Mercury	63704-09-01 11:46 G	24988711.91	24988711.99	24988712.09	0.0089	0.0069
Venus	63704-10-29 22:05 G	24988770.30	24988770.42	24988770.56	0.0089	0.0072
Mercury	63704-11-28 13:41 G	24988799.97	24988800.07	24988800.17	0.0089	0.0060
Mercury	63705-02-24 15:07 G	24988888.02	24988888.13	24988888.25	0.0089	0.0052
Mercury	63705-05-23 16:48 G	24988976.08	24988976.20	24988976.33	0.0089	0.0043
Venus	63705-06-12 11:31 G	24988995.83	24988995.98	24988996.12	0.0089	0.0067
Mercury	63705-08-19 18:15 G	24989064.14	24989064.26	24989064.40	0.0089	0.0036
Mercury	63705-11-15 19:55 G	24989152.20	24989152.33	24989152.47	0.0089	0.0027
Venus	63706-01-24 00:15 G	24989221.38	24989221.51	24989221.69	0.0089	0.0063
Mercury	63706-02-11 21:36 G	24989240.27	24989240.40	24989240.54	0.0089	0.0019
Mercury	63706-05-10 23:17 G	24989328.33	24989328.47	24989328.61	0.0089	0.0011
Mercury	63706-08-07 00:43 G	24989416.39	24989416.53	24989416.67	0.0089	0.0003
Venus	63706-09-06 13:41 G	24989446.92	24989447.07	24989447.26	0.0089	0.0058
Mercury	63706-11-03 02:24 G	24989504.46	24989504.60	24989504.74	0.0089	0.0006
Mercury	63707-01-30 03:51 G	24989592.53	24989592.66	24989592.80	0.0089	0.0014
Venus	63707-04-20 03:07 G	24989672.47	24989672.63	24989672.83	0.0089	0.0053



Mercury	63707-04-28 05:31 G	24989680.59	24989680.73	24989680.86	0.0089	0.0022
Mercury	63707-07-25 06:58 G	24989768.66	24989768.79	24989768.92	0.0089	0.0030
Mercury	63707-10-21 08:39 G	24989856.73	24989856.86	24989856.98	0.0089	0.0038
Venus	63707-12-01 16:34 G	24989898.02	24989898.19	24989898.39	0.0089	0.0047
Mercury	63708-01-17 10:05 G	24989944.80	24989944.92	24989945.04	0.0089	0.0046
Mercury	63708-04-14 11:31 G	24990032.88	24990032.98	24990033.10	0.0089	0.0054
Mercury	63708-07-11 13:12 G	24990120.95	24990121.05	24990121.15	0.0089	0.0062
Venus	63708-07-14 06:00 G	24990123.56	24990123.75	24990123.95	0.0089	0.0042
Mercury	63708-10-07 14:39 G	24990209.03	24990209.11	24990209.20	0.0089	0.0069
Mercury	63709-01-03 16:05 G	24990297.11	24990297.17	24990297.24	0.0089	0.0077
Venus	63709-02-24 19:27 G	24990349.12	24990349.31	24990349.52	0.0089	0.0037
Mercury	63709-04-01 17:31 G	24990385.20	24990385.23	24990385.28	0.0089	0.0085
Moon	63709-06-02 05:03 G	24990446.54	24990446.71	24990446.89	0.0089	0.0064
Earth	63709-06-02 04:48 G	24990446.57	24990446.70	24990446.90	0.0089	0.0069 *
Venus	63709-10-08 08:39 G	24990574.67	24990574.86	24990575.08	0.0089	0.0033
Venus	63710-05-21 22:05 G	24990800.22	24990800.42	24990800.64	0.0089	0.0027
Moon	63710-06-04 16:19 G	24990813.96	24990814.18	24990814.43	0.0089	0.0041
Earth	63710-06-04 17:17 G	24990814.00	24990814.22	24990814.46	0.0089	0.0037 *
Venus	63711-01-02 11:31 G	24991025.77	24991025.98	24991026.20	0.0089	0.0022
Earth	63711-06-07 05:17 G	24991181.47	24991181.72	24991181.98	0.0089	0.0007
Moon	63711-06-07 06:58 G	24991181.54	24991181.79	24991182.04	0.0089	0.0003 *
Venus	63711-08-16 00:58 G	24991251.33	24991251.54	24991251.76	0.0089	0.0017
Venus	63712-03-28 14:24 G	24991476.88	24991477.10	24991477.32	0.0089	0.0012
Moon	63712-06-08 13:55 G	24991548.83	24991549.08	24991549.35	0.0089	0.0019
Earth	63712-06-08 16:48 G	24991548.97	24991549.20	24991549.46	0.0089	0.0024 *
Venus	63712-11-09 03:36 G	24991702.44	24991702.65	24991702.88	0.0089	0.0008
Earth	63713-06-11 04:34 G	24991916.50	24991916.69	24991916.91	0.0089	0.0054
Moon	63713-06-11 08:10 G	24991916.65	24991916.84	24991917.04	0.0089	0.0058 *
Venus	63713-06-22 17:03 G	24991927.99	24991928.21	24991928.43	0.0089	0.0002
Venus	63714-02-03 06:15 G	24992153.54	24992153.76	24992153.98	0.0089	0.0003

Moon	63714-06-13 13:12 G	24992283.94	24992284.05	24992284.17	0.0089	0.0079
Earth	63714-06-13 16:34 G	24992284.12	24992284.19	24992284.28	0.0089	0.0085 *
Venus	63714-09-16 19:27 G	24992379.10	24992379.31	24992379.54	0.0089	0.0009
Venus	63715-04-30 08:53 G	24992604.65	24992604.87	24992605.09	0.0089	0.0013
Venus	63715-12-11 22:05 G	24992830.21	24992830.42	24992830.64	0.0089	0.0018
Venus	63716-07-24 11:17 G	24993055.76	24993055.97	24993056.19	0.0089	0.0023
Venus	63717-03-07 00:29 G	24993281.32	24993281.52	24993281.74	0.0089	0.0028
Venus	63717-10-18 13:41 G	24993506.87	24993507.07	24993507.28	0.0089	0.0033
Venus	63718-06-01 03:07 G	24993732.43	24993732.63	24993732.83	0.0089	0.0038
Venus	63719-01-12 16:05 G	24993957.99	24993958.17	24993958.37	0.0089	0.0043
Venus	63719-08-26 05:17 G	24994183.55	24994183.72	24994183.92	0.0089	0.0048
Venus	63720-04-07 18:43 G	24994409.11	24994409.28	24994409.46	0.0089	0.0053
Venus	63720-11-19 07:41 G	24994634.67	24994634.82	24994635.01	0.0089	0.0058
Venus	63721-07-02 20:53 G	24994860.23	24994860.37	24994860.55	0.0089	0.0063
Venus	63722-02-13 10:05 G	24995085.80	24995085.92	24995086.08	0.0089	0.0068
Venus	63722-09-26 23:31 G	24995311.37	24995311.48	24995311.62	0.0089	0.0072
Jupiter	63723-01-17 16:48 G	24995424.00	24995424.20	24995424.48	0.0089	0.0079
Venus	63723-05-10 12:43 G	24995536.94	24995537.03	24995537.16	0.0089	0.0077
Venus	63723-12-22 01:55 G	24995762.52	24995762.58	24995762.69	0.0089	0.0082
Venus	63724-08-03 15:22 G	24995988.10	24995988.14	24995988.20	0.0089	0.0086
Mars	63745-01-09 18:43 G	25003452.02	25003452.28	25003452.58	0.0088	0.0031
Venus	63785-09-20 16:05 G	25018316.14	25018316.17	25018316.25	0.0088	0.0085
Venus	63786-05-04 05:17 G	25018541.64	25018541.72	25018541.81	0.0088	0.0080
Venus	63786-12-15 17:31 G	25018767.14	25018767.23	25018767.36	0.0088	0.0076
Venus	63787-07-29 06:43 G	25018992.65	25018992.78	25018992.91	0.0088	0.0071
Mercury	63787-11-09 05:17 G	25019095.68	25019095.72	25019095.80	0.0088	0.0083
Mercury	63788-02-05 08:10 G	25019183.76	25019183.84	25019183.95	0.0088	0.0073
Venus	63788-03-10 18:58 G	25019218.17	25019218.29	25019218.45	0.0088	0.0067
Mercury	63788-05-03 11:17 G	25019271.85	25019271.97	25019272.10	0.0088	0.0063
Mercury	63788-07-30 13:55 G	25019359.96	25019360.08	25019360.24	0.0088	0.0054

Venus	63788-10-22 07:55 G	25019443.69	25019443.83	25019444.00	0.0088	0.0062
Mercury	63788-10-26 16:48 G	25019448.06	25019448.20	25019448.37	0.0088	0.0044
Mercury	63789-01-22 19:55 G	25019536.17	25019536.33	25019536.50	0.0088	0.0034
Mercury	63789-04-20 22:48 G	25019624.29	25019624.45	25019624.63	0.0088	0.0024
Venus	63789-06-04 20:53 G	25019669.21	25019669.37	25019669.54	0.0088	0.0057
Mercury	63789-07-18 01:55 G	25019712.40	25019712.58	25019712.76	0.0088	0.0014
Mercury	63789-10-14 04:48 G	25019800.52	25019800.70	25019800.88	0.0088	0.0004
Mercury	63790-01-10 07:55 G	25019888.65	25019888.83	25019889.01	0.0088	0.0006
Venus	63790-01-16 09:07 G	25019894.73	25019894.88	25019895.08	0.0088	0.0053
Mercury	63790-04-08 10:34 G	25019976.77	25019976.94	25019977.13	0.0088	0.0016
Mercury	63790-07-05 13:41 G	25020064.90	25020065.07	25020065.25	0.0088	0.0026
Venus	63790-08-29 22:05 G	25020120.25	25020120.42	25020120.62	0.0088	0.0048
Mercury	63790-10-01 16:34 G	25020153.03	25020153.19	25020153.36	0.0088	0.0036
Mercury	63790-12-28 19:27 G	25020241.17	25020241.31	25020241.48	0.0088	0.0047
Mercury	63791-03-26 22:34 G	25020329.31	25020329.44	25020329.59	0.0088	0.0056
Venus	63791-04-12 11:03 G	25020345.77	25020345.96	25020346.16	0.0088	0.0043
Mercury	63791-06-23 01:41 G	25020417.46	25020417.57	25020417.69	0.0088	0.0066
Mercury	63791-09-19 04:19 G	25020505.61	25020505.68	25020505.79	0.0088	0.0077
Venus	63791-11-23 23:46 G	25020571.29	25020571.49	25020571.69	0.0088	0.0039
Moon	63791-12-03 18:43 G	25020581.25	25020581.28	25020581.36	0.0088	0.0086
Mercury	63791-12-16 07:27 G	25020593.80	25020593.81	25020593.85	0.0088	0.0087
Venus	63792-07-06 12:00 G	25020796.82	25020797.00	25020797.22	0.0088	0.0034
Earth	63792-12-05 06:15 G	25020948.59	25020948.76	25020948.97	0.0088	0.0060
Moon	63792-12-05 08:10 G	25020948.67	25020948.84	25020949.03	0.0088	0.0061 *
Venus	63793-02-17 00:58 G	25021022.34	25021022.54	25021022.75	0.0088	0.0029
Venus	63793-09-30 13:41 G	25021247.87	25021248.07	25021248.29	0.0088	0.0025
Moon	63793-12-07 15:07 G	25021315.89	25021316.13	25021316.40	0.0088	0.0028
Earth	63793-12-07 18:15 G	25021316.01	25021316.26	25021316.50	0.0088	0.0030 *
Venus	63794-05-14 02:39 G	25021473.40	25021473.61	25021473.83	0.0088	0.0019
Earth	63794-12-10 05:31 G	25021683.47	25021683.73	25021683.99	0.0088	0.0001

Moon	63794-12-10 08:39 G	25021683.61	25021683.86	25021684.11	0.0088	0.0003 *
Venus	63794-12-25 15:22 G	25021698.92	25021699.14	25021699.36	0.0088	0.0014
Venus	63795-08-08 04:05 G	25021924.45	25021924.67	25021924.89	0.0088	0.0010
Moon	63795-12-12 12:58 G	25022050.82	25022051.04	25022051.30	0.0088	0.0033
Earth	63795-12-12 17:17 G	25022050.97	25022051.22	25022051.46	0.0088	0.0030 *
Venus	63796-03-20 16:34 G	25022149.98	25022150.19	25022150.42	0.0088	0.0006
Venus	63796-11-01 05:31 G	25022375.51	25022375.73	25022375.95	0.0088	0.0001
Earth	63796-12-14 04:19 G	25022418.50	25022418.68	25022418.88	0.0088	0.0060
Moon	63796-12-14 07:12 G	25022418.63	25022418.80	25022419.03	0.0088	0.0058 *
Venus	63797-06-14 18:15 G	25022601.04	25022601.26	25022601.48	0.0088	0.0005
Venus	63798-01-26 06:58 G	25022826.58	25022826.79	25022827.01	0.0088	0.0010
Venus	63798-09-08 19:41 G	25023052.11	25023052.32	25023052.55	0.0088	0.0015
Venus	63799-04-22 08:24 G	25023277.65	25023277.85	25023278.08	0.0088	0.0021
Venus	63799-12-03 21:36 G	25023503.19	25023503.40	25023503.61	0.0088	0.0025
Venus	63800-07-17 10:05 G	25023728.72	25023728.92	25023729.14	0.0088	0.0030
Venus	63801-02-27 22:48 G	25023954.26	25023954.45	25023954.66	0.0088	0.0035
Venus	63801-10-11 11:46 G	25024179.81	25024179.99	25024180.20	0.0088	0.0040
Venus	63802-05-25 00:29 G	25024405.35	25024405.52	25024405.73	0.0088	0.0045
Venus	63803-01-05 13:12 G	25024630.89	25024631.05	25024631.25	0.0088	0.0050
Venus	63803-08-19 02:10 G	25024856.43	25024856.59	25024856.77	0.0088	0.0054
Venus	63804-03-31 14:53 G	25025081.97	25025082.12	25025082.30	0.0089	0.0059
Venus	63804-11-12 03:36 G	25025307.52	25025307.65	25025307.82	0.0089	0.0064
Venus	63805-06-25 16:48 G	25025533.06	25025533.20	25025533.34	0.0089	0.0068
Venus	63806-02-06 05:17 G	25025758.61	25025758.72	25025758.86	0.0089	0.0073
Venus	63806-09-19 18:00 G	25025984.16	25025984.25	25025984.38	0.0089	0.0078
Venus	63807-05-03 06:58 G	25026209.72	25026209.79	25026209.89	0.0089	0.0082
Venus	63807-12-14 19:27 G	25026435.29	25026435.31	25026435.38	0.0089	0.0087
Mars	63826-09-27 07:55 G	25033296.69	25033296.83	25033297.01	0.0089	0.0078
Mars	63828-08-22 20:39 G	25033992.24	25033992.36	25033992.55	0.0089	0.0079
Venus	63866-08-14 01:55 G	25047862.58	25047862.58	25047862.62	0.0089	0.0089

Venus	63867-03-27 15:22 G	25048088.09	25048088.14	25048088.23	0.0089	0.0085
Venus	63867-11-08 04:48 G	25048313.62	25048313.70	25048313.81	0.0089	0.0080
Venus	63868-06-20 18:29 G	25048539.15	25048539.27	25048539.39	0.0089	0.0075
Mercury	63868-09-08 06:29 G	25048618.77	25048618.77	25048618.78	0.0089	0.0089
Mercury	63868-12-05 08:10 G	25048706.78	25048706.84	25048706.90	0.0089	0.0081
Venus	63869-02-01 07:27 G	25048764.69	25048764.81	25048764.96	0.0089	0.0070
Mercury	63869-03-03 09:36 G	25048794.83	25048794.90	25048794.99	0.0089	0.0073
Mercury	63869-05-30 11:17 G	25048882.88	25048882.97	25048883.07	0.0089	0.0064
Mercury	63869-08-26 12:43 G	25048970.93	25048971.03	25048971.15	0.0089	0.0057
Venus	63869-09-14 20:53 G	25048990.23	25048990.37	25048990.53	0.0089	0.0065
Mercury	63869-11-22 14:39 G	25049058.99	25049059.11	25049059.23	0.0089	0.0048
Mercury	63870-02-18 16:19 G	25049147.05	25049147.18	25049147.30	0.0089	0.0040
Venus	63870-04-28 10:19 G	25049215.78	25049215.93	25049216.10	0.0089	0.0060
Mercury	63870-05-17 17:46 G	25049235.11	25049235.24	25049235.38	0.0089	0.0031
Mercury	63870-08-13 19:27 G	25049323.18	25049323.31	25049323.45	0.0089	0.0023
Mercury	63870-11-09 20:53 G	25049411.24	25049411.37	25049411.52	0.0089	0.0016
Venus	63870-12-09 23:31 G	25049441.32	25049441.48	25049441.67	0.0089	0.0056
Mercury	63871-02-05 22:34 G	25049499.30	25049499.44	25049499.58	0.0089	0.0007
Mercury	63871-05-05 00:15 G	25049587.37	25049587.51	25049587.65	0.0089	0.0001
Venus	63871-07-23 12:58 G	25049666.87	25049667.04	25049667.23	0.0089	0.0051
Mercury	63871-08-01 01:41 G	25049675.43	25049675.57	25049675.71	0.0089	0.0010
Mercury	63871-10-28 03:22 G	25049763.50	25049763.64	25049763.78	0.0089	0.0017
Mercury	63872-01-24 04:48 G	25049851.57	25049851.70	25049851.84	0.0089	0.0026
Venus	63872-03-05 02:24 G	25049892.42	25049892.60	25049892.80	0.0089	0.0046
Mercury	63872-04-21 06:29 G	25049939.64	25049939.77	25049939.90	0.0089	0.0033
Mercury	63872-07-18 07:55 G	25050027.71	25050027.83	25050027.96	0.0089	0.0041
Mercury	63872-10-14 09:22 G	25050115.78	25050115.89	25050116.01	0.0089	0.0050
Venus	63872-10-16 15:51 G	25050117.97	25050118.16	25050118.36	0.0089	0.0041
Mercury	63873-01-10 10:48 G	25050203.86	25050203.95	25050204.07	0.0089	0.0058
Mercury	63873-04-08 12:29 G	25050291.93	25050292.02	25050292.12	0.0089	0.0065

Venus	63873-05-30 05:03 G	25050343.51	25050343.71	25050343.92	0.0089	0.0036
Moon	63873-06-02 11:31 G	25050346.90	25050346.98	25050347.13	0.0089	0.0081
Earth	63873-06-02 13:41 G	25050346.98	25050347.07	25050347.16	0.0089	0.0083 *
Mercury	63873-07-05 13:55 G	25050380.01	25050380.08	25050380.17	0.0089	0.0073
Mercury	63873-10-01 15:22 G	25050468.10	25050468.14	25050468.21	0.0089	0.0081
Mercury	63873-12-28 16:48 G	25050556.20	25050556.20	25050556.22	0.0089	0.0089
Venus	63874-01-10 18:29 G	25050569.06	25050569.27	25050569.48	0.0089	0.0031
Earth	63874-06-05 00:58 G	25050714.35	25050714.54	25050714.77	0.0089	0.0053
Moon	63874-06-05 03:36 G	25050714.47	25050714.65	25050714.86	0.0089	0.0055 *
Venus	63874-08-24 07:41 G	25050794.62	25050794.82	25050795.04	0.0089	0.0026
Venus	63875-04-06 21:22 G	25051020.17	25051020.39	25051020.60	0.0089	0.0020
Moon	63875-06-07 09:51 G	25051081.67	25051081.91	25051082.18	0.0089	0.0020
Earth	63875-06-07 12:58 G	25051081.80	25051082.04	25051082.30	0.0089	0.0022 *
Venus	63875-11-18 10:34 G	25051245.73	25051245.94	25051246.16	0.0089	0.0016
Earth	63876-06-09 00:58 G	25051449.29	25051449.54	25051449.80	0.0089	0.0009
Moon	63876-06-09 04:48 G	25051449.44	25051449.70	25051449.95	0.0089	0.0006 *
Venus	63876-07-01 00:00 G	25051471.28	25051471.50	25051471.72	0.0089	0.0010
Venus	63877-02-11 13:27 G	25051696.84	25051697.06	25051697.28	0.0089	0.0005
Moon	63877-06-11 09:07 G	25051816.68	25051816.88	25051817.13	0.0089	0.0042
Earth	63877-06-11 12:43 G	25051816.81	25051817.03	25051817.28	0.0089	0.0039 *
Venus	63877-09-25 02:39 G	25051922.39	25051922.61	25051922.83	0.0089	0.0001
Venus	63878-05-08 16:05 G	25052147.95	25052148.17	25052148.39	0.0089	0.0005
Earth	63878-06-14 00:29 G	25052184.37	25052184.52	25052184.69	0.0089	0.0070
Moon	63878-06-14 03:36 G	25052184.50	25052184.65	25052184.84	0.0089	0.0068 *
Venus	63878-12-20 05:17 G	25052373.50	25052373.72	25052373.94	0.0089	0.0010
Venus	63879-08-02 18:29 G	25052599.06	25052599.27	25052599.49	0.0089	0.0015
Venus	63880-03-15 07:55 G	25052824.62	25052824.83	25052825.05	0.0089	0.0020
Venus	63880-10-26 21:07 G	25053050.17	25053050.38	25053050.60	0.0089	0.0025
Venus	63881-06-09 10:19 G	25053275.73	25053275.93	25053276.14	0.0089	0.0030
Venus	63882-01-20 23:31 G	25053501.28	25053501.48	25053501.69	0.0089	0.0035

Venus	63882-09-03 12:43 G	25053726.84	25053727.03	25053727.23	0.0089	0.0040
Venus	63883-04-17 01:55 G	25053952.40	25053952.58	25053952.78	0.0089	0.0045
Venus	63883-11-28 15:07 G	25054177.96	25054178.13	25054178.32	0.0089	0.0050
Venus	63884-07-11 04:05 G	25054403.52	25054403.67	25054403.86	0.0089	0.0055
Venus	63885-02-21 17:46 G	25054629.08	25054629.24	25054629.40	0.0089	0.0059
Venus	63885-10-05 06:43 G	25054854.64	25054854.78	25054854.94	0.0089	0.0064
Venus	63886-05-18 19:55 G	25055080.21	25055080.33	25055080.48	0.0089	0.0069
Venus	63886-12-30 08:53 G	25055305.77	25055305.87	25055306.02	0.0089	0.0074
Venus	63887-08-12 22:05 G	25055531.34	25055531.42	25055531.55	0.0089	0.0079
Venus	63888-03-25 11:31 G	25055756.92	25055756.98	25055757.07	0.0089	0.0083
Venus	63888-11-06 00:43 G	25055982.52	25055982.53	25055982.58	0.0089	0.0088
Jupiter	63889-03-21 17:03 G	25056117.78	25056118.21	25056118.73	0.0089	0.0041
Mars	63908-08-26 20:24 G	25063215.07	25063215.35	25063215.65	0.0088	0.0026
Venus	63949-05-13 14:24 G	25078085.10	25078085.10	25078085.13	0.0088	0.0088
Venus	63949-12-25 03:07 G	25078310.57	25078310.63	25078310.71	0.0088	0.0083
Venus	63950-08-07 15:36 G	25078536.08	25078536.15	25078536.27	0.0088	0.0079
Venus	63951-03-21 04:34 G	25078761.59	25078761.69	25078761.82	0.0088	0.0074
Venus	63951-11-01 17:03 G	25078987.10	25078987.21	25078987.36	0.0088	0.0070
Mercury	63952-05-11 01:12 G	25079178.55	25079178.55	25079178.59	0.0088	0.0087
Venus	63952-06-14 05:46 G	25079212.61	25079212.74	25079212.91	0.0088	0.0065
Mercury	63952-08-07 04:19 G	25079266.60	25079266.68	25079266.77	0.0088	0.0077
Mercury	63952-11-03 06:58 G	25079354.69	25079354.79	25079354.91	0.0088	0.0068
Venus	63953-01-25 18:43 G	25079438.13	25079438.28	25079438.45	0.0088	0.0060
Mercury	63953-01-30 09:51 G	25079442.79	25079442.91	25079443.06	0.0088	0.0058
Mercury	63953-04-28 12:58 G	25079530.89	25079531.04	25079531.19	0.0088	0.0048
Mercury	63953-07-25 15:36 G	25079619.00	25079619.15	25079619.32	0.0088	0.0039
Venus	63953-09-08 07:27 G	25079663.66	25079663.81	25079664.00	0.0088	0.0056
Mercury	63953-10-21 18:29 G	25079707.11	25079707.27	25079707.45	0.0088	0.0029
Mercury	63954-01-17 21:36 G	25079795.23	25079795.40	25079795.58	0.0088	0.0019
Mercury	63954-04-16 00:29 G	25079883.35	25079883.52	25079883.70	0.0088	0.0009

Venus	63954-04-21 20:10 G	25079889.18	25079889.34	25079889.54	0.0088	0.0051
Mercury	63954-07-13 03:36 G	25079971.47	25079971.65	25079971.83	0.0088	0.0002
Mercury	63954-10-09 06:29 G	25080059.59	25080059.77	25080059.95	0.0088	0.0011
Venus	63954-12-03 09:07 G	25080114.70	25080114.88	25080115.07	0.0088	0.0046
Mercury	63955-01-05 09:22 G	25080147.72	25080147.89	25080148.07	0.0088	0.0021
Mercury	63955-04-03 12:15 G	25080235.85	25080236.01	25080236.19	0.0088	0.0031
Mercury	63955-06-30 15:07 G	25080323.98	25080324.13	25080324.30	0.0088	0.0042
Venus	63955-07-16 21:51 G	25080340.22	25080340.41	25080340.61	0.0088	0.0042
Mercury	63955-09-26 18:15 G	25080412.12	25080412.26	25080412.41	0.0088	0.0051
Mercury	63955-12-23 21:22 G	25080500.26	25080500.39	25080500.52	0.0088	0.0061
Venus	63956-02-27 10:19 G	25080565.74	25080565.93	25080566.14	0.0088	0.0037
Mercury	63956-03-21 00:00 G	25080588.41	25080588.50	25080588.62	0.0088	0.0072
Mercury	63956-06-17 02:53 G	25080676.58	25080676.62	25080676.71	0.0088	0.0083
Venus	63956-10-09 23:17 G	25080791.27	25080791.47	25080791.68	0.0088	0.0032
Moon	63956-12-06 12:00 G	25080848.91	25080849.00	25080849.16	0.0088	0.0078
Earth	63956-12-06 15:22 G	25080849.02	25080849.14	25080849.30	0.0088	0.0073 *
Venus	63957-05-23 12:00 G	25081016.80	25081017.00	25081017.22	0.0088	0.0027
Earth	63957-12-09 03:07 G	25081216.41	25081216.63	25081216.86	0.0088	0.0044
Moon	63957-12-09 06:15 G	25081216.55	25081216.76	25081217.01	0.0088	0.0040 *
Venus	63958-01-04 00:43 G	25081242.32	25081242.53	25081242.75	0.0088	0.0022
Venus	63958-08-17 13:27 G	25081467.85	25081468.06	25081468.28	0.0088	0.0017
Moon	63958-12-11 11:03 G	25081583.71	25081583.96	25081584.22	0.0088	0.0018
Earth	63958-12-11 14:39 G	25081583.86	25081584.11	25081584.37	0.0088	0.0014 *
Venus	63959-03-31 02:10 G	25081693.37	25081693.59	25081693.81	0.0088	0.0013
Venus	63959-11-11 14:53 G	25081918.90	25081919.12	25081919.34	0.0088	0.0008
Earth	63959-12-14 02:10 G	25081951.33	25081951.59	25081951.84	0.0088	0.0016
Moon	63959-12-14 05:17 G	25081951.48	25081951.72	25081951.99	0.0088	0.0021 *
Venus	63960-06-24 03:36 G	25082144.43	25082144.65	25082144.87	0.0088	0.0003
Moon	63960-12-15 10:48 G	25082318.75	25082318.95	25082319.19	0.0088	0.0042
Earth	63960-12-15 13:12 G	25082318.84	25082319.05	25082319.29	0.0088	0.0046 *



Venus	63961-02-04 16:19 G	25082369.96	25082370.18	25082370.40	0.0088	0.0002
Venus	63961-09-18 05:03 G	25082595.49	25082595.71	25082595.93	0.0088	0.0007
Earth	63961-12-18 00:15 G	25082686.40	25082686.51	25082686.67	0.0088	0.0075
Moon	63961-12-18 02:10 G	25082686.49	25082686.59	25082686.73	0.0088	0.0079 *
Venus	63962-05-01 17:46 G	25082821.03	25082821.24	25082821.46	0.0088	0.0012
Venus	63962-12-13 06:29 G	25083046.56	25083046.77	25083046.99	0.0088	0.0017
Venus	63963-07-26 19:12 G	25083272.09	25083272.30	25083272.52	0.0088	0.0022
Venus	63964-03-08 07:55 G	25083497.63	25083497.83	25083498.04	0.0088	0.0026
Venus	63964-10-19 20:39 G	25083723.17	25083723.36	25083723.58	0.0088	0.0032
Venus	63965-06-02 09:22 G	25083948.71	25083948.89	25083949.11	0.0088	0.0037
Venus	63966-01-13 22:05 G	25084174.25	25084174.42	25084174.64	0.0088	0.0042
Venus	63966-08-27 11:17 G	25084399.79	25084399.97	25084400.16	0.0088	0.0046
Venus	63967-04-10 00:00 G	25084625.33	25084625.50	25084625.69	0.0088	0.0051
Venus	63967-11-21 12:43 G	25084850.88	25084851.03	25084851.22	0.0088	0.0056
Venus	63968-07-04 01:27 G	25085076.42	25085076.56	25085076.74	0.0088	0.0061
Venus	63969-02-14 14:39 G	25085301.97	25085302.11	25085302.26	0.0089	0.0065
Venus	63969-09-28 03:22 G	25085527.52	25085527.64	25085527.79	0.0089	0.0070
Venus	63970-05-11 15:51 G	25085753.07	25085753.16	25085753.31	0.0089	0.0075
Venus	63970-12-23 05:03 G	25085978.62	25085978.71	25085978.82	0.0089	0.0079
Venus	63971-08-05 17:31 G	25086204.18	25086204.23	25086204.32	0.0089	0.0084
Venus	63972-03-18 06:29 G	25086429.76	25086429.77	25086429.81	0.0089	0.0088
Mars	63992-04-06 23:31 G	25093754.16	25093754.48	25093754.81	0.0089	0.0014

# 65TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 65th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	64030-11-16 12:00	G	25107856.97	25107857.00	25107857.06	0.0089	0.0088	
Venus	64031-06-30 01:27	G	25108082.49	25108082.56	25108082.65	0.0089	0.0083	
Venus	64032-02-10 14:39	G	25108308.03	25108308.11	25108308.24	0.0089	0.0078	
Venus	64032-09-23 04:05	G	25108533.56	25108533.67	25108533.81	0.0089	0.0074	
Venus	64033-05-06 17:31	G	25108759.11	25108759.23	25108759.39	0.0089	0.0069	
Mercury	64033-06-06 05:46	G	25108789.71	25108789.74	25108789.79	0.0089	0.0085	
Mercury	64033-09-02 07:41	G	25108877.75	25108877.82	25108877.89	0.0089	0.0077	
Mercury	64033-11-29 09:07	G	25108965.80	25108965.88	25108965.98	0.0089	0.0069	
Venus	64033-12-18 06:58	G	25108984.65	25108984.79	25108984.95	0.0089	0.0064	
Mercury	64034-02-25 10:34	G	25109053.85	25109053.94	25109054.06	0.0089	0.0061	
Mercury	64034-05-24 12:15	G	25109141.91	25109142.01	25109142.14	0.0089	0.0052	
Venus	64034-07-31 20:24	G	25109210.19	25109210.35	25109210.52	0.0089	0.0059	
Mercury	64034-08-20 14:10	G	25109229.97	25109230.09	25109230.21	0.0089	0.0044	
Mercury	64034-11-16 15:36	G	25109318.03	25109318.15	25109318.29	0.0089	0.0036	
Mercury	64035-02-12 17:17	G	25109406.09	25109406.22	25109406.36	0.0089	0.0027	
Venus	64035-03-14 09:51	G	25109435.74	25109435.91	25109436.09	0.0089	0.0054	
Mercury	64035-05-11 18:58	G	25109494.15	25109494.29	25109494.43	0.0089	0.0019	
Mercury	64035-08-07 20:24	G	25109582.22	25109582.35	25109582.50	0.0089	0.0011	
Venus	64035-10-25 22:48	G	25109661.29	25109661.45	25109661.65	0.0089	0.0049	
Mercury	64035-11-03 22:05	G	25109670.28	25109670.42	25109670.56	0.0089	0.0003	
Mercury	64036-01-30 23:46	G	25109758.35	25109758.49	25109758.63	0.0089	0.0006	
Mercury	64036-04-28 01:12	G	25109846.41	25109846.55	25109846.69	0.0089	0.0013	
Venus	64036-06-07 12:00	G	25109886.83	25109887.00	25109887.21	0.0089	0.0045	
Mercury	64036-07-25 02:53	G	25109934.48	25109934.62	25109934.75	0.0089	0.0021	
Mercury	64036-10-21 04:19	G	25110022.55	25110022.68	25110022.81	0.0089	0.0029	
Mercury	64037-01-17 05:46	G	25110110.62	25110110.74	25110110.87	0.0089	0.0038	

Venus	64037-01-19 01:27 G	25110112.38	25110112.56	25110112.77	0.0089	0.0039
Mercury	64037-04-15 07:27 G	25110198.69	25110198.81	25110198.93	0.0089	0.0045
Mercury	64037-07-12 08:53 G	25110286.77	25110286.87	25110286.99	0.0089	0.0053
Venus	64037-09-01 14:53 G	25110337.93	25110338.12	25110338.33	0.0089	0.0034
Mercury	64037-10-08 10:19 G	25110374.84	25110374.93	25110375.04	0.0089	0.0062
Mercury	64038-01-04 11:46 G	25110462.92	25110462.99	25110463.09	0.0089	0.0070
Mercury	64038-04-02 13:12 G	25110551.00	25110551.05	25110551.13	0.0089	0.0078
Venus	64038-04-15 04:19 G	25110563.48	25110563.68	25110563.90	0.0089	0.0029
Moon	64038-06-05 05:46 G	25110614.58	25110614.74	25110614.94	0.0089	0.0064
Earth	64038-06-05 09:22 G	25110614.74	25110614.89	25110615.08	0.0089	0.0067 *
Mercury	64038-06-29 14:39 G	25110639.09	25110639.11	25110639.17	0.0089	0.0086
Venus	64038-11-26 17:31 G	25110789.03	25110789.23	25110789.45	0.0089	0.0024
Earth	64039-06-07 21:22 G	25110982.16	25110982.39	25110982.63	0.0089	0.0037
Moon	64039-06-08 00:58 G	25110982.31	25110982.54	25110982.77	0.0089	0.0041 *
Venus	64039-07-10 06:58 G	25111014.58	25111014.79	25111015.01	0.0089	0.0019
Venus	64040-02-20 20:10 G	25111240.13	25111240.34	25111240.57	0.0089	0.0015
Moon	64040-06-09 05:46 G	25111349.49	25111349.74	25111350.00	0.0089	0.0002
Earth	64040-06-09 09:22 G	25111349.63	25111349.89	25111350.15	0.0089	0.0006 *
Venus	64040-10-03 09:36 G	25111465.69	25111465.90	25111466.13	0.0089	0.0009
Venus	64041-05-16 23:03 G	25111691.25	25111691.46	25111691.69	0.0089	0.0004
Earth	64041-06-11 21:07 G	25111717.13	25111717.38	25111717.63	0.0089	0.0024
Moon	64041-06-11 23:46 G	25111717.23	25111717.49	25111717.75	0.0089	0.0020 *
Venus	64041-12-28 12:29 G	25111916.80	25111917.02	25111917.24	0.0089	0.0001
Moon	64042-06-14 06:43 G	25112084.61	25112084.78	25112084.99	0.0089	0.0059
Earth	64042-06-14 08:39 G	25112084.68	25112084.86	25112085.08	0.0089	0.0055 *
Venus	64042-08-11 01:41 G	25112142.36	25112142.57	25112142.80	0.0089	0.0007
Venus	64043-03-24 15:07 G	25112367.92	25112368.13	25112368.36	0.0089	0.0012
Earth	64043-06-16 20:24 G	25112452.30	25112452.35	25112452.45	0.0089	0.0085
Moon	64043-06-16 21:36 G	25112452.30	25112452.40	25112452.52	0.0089	0.0081 *
Venus	64043-11-05 04:19 G	25112593.48	25112593.68	25112593.91	0.0089	0.0017

Venus	64044-06-17 17:46 G	25112819.03	25112819.24	25112819.46	0.0089	0.0022
Venus	64045-01-29 06:58 G	25113044.59	25113044.79	25113045.01	0.0089	0.0027
Venus	64045-09-11 20:10 G	25113270.15	25113270.34	25113270.56	0.0089	0.0032
Venus	64046-04-25 09:36 G	25113495.71	25113495.90	25113496.11	0.0089	0.0037
Venus	64046-12-06 22:48 G	25113721.27	25113721.45	25113721.66	0.0089	0.0042
Venus	64047-07-20 12:00 G	25113946.83	25113947.00	25113947.20	0.0089	0.0047
Venus	64048-03-02 01:12 G	25114172.39	25114172.55	25114172.75	0.0089	0.0052
Venus	64048-10-13 14:39 G	25114397.95	25114398.11	25114398.29	0.0089	0.0056
Venus	64049-05-27 03:51 G	25114623.51	25114623.66	25114623.83	0.0089	0.0061
Venus	64050-01-07 16:48 G	25114849.07	25114849.20	25114849.37	0.0089	0.0066
Venus	64050-08-21 06:00 G	25115074.64	25115074.75	25115074.90	0.0089	0.0071
Venus	64051-04-03 19:41 G	25115300.21	25115300.32	25115300.44	0.0089	0.0075
Venus	64051-11-15 08:39 G	25115525.78	25115525.86	25115525.97	0.0089	0.0080
Venus	64052-06-27 21:36 G	25115751.36	25115751.40	25115751.48	0.0089	0.0085
Jupiter	64055-05-22 23:46 G	25116809.96	25116810.49	25116811.02	0.0089	0.0000
Mars	64072-04-10 23:03 G	25122978.39	25122978.46	25122978.59	0.0088	0.0083
Mars	64074-03-06 03:36 G	25123672.43	25123672.65	25123672.90	0.0088	0.0055
Venus	64113-08-16 01:27 G	25138079.53	25138079.56	25138079.62	0.0088	0.0086
Venus	64114-03-29 13:55 G	25138305.02	25138305.08	25138305.18	0.0088	0.0082
Venus	64114-11-10 02:39 G	25138530.53	25138530.61	25138530.73	0.0088	0.0077
Venus	64115-06-23 15:07 G	25138756.03	25138756.13	25138756.28	0.0088	0.0073
Venus	64116-02-04 04:05 G	25138981.55	25138981.67	25138981.82	0.0088	0.0068
Venus	64116-09-16 17:17 G	25139207.07	25139207.22	25139207.37	0.0088	0.0063
Mercury	64117-02-06 00:00 G	25139349.45	25139349.50	25139349.58	0.0088	0.0082
Venus	64117-04-30 05:31 G	25139432.59	25139432.73	25139432.92	0.0088	0.0059
Mercury	64117-05-05 02:53 G	25139437.53	25139437.62	25139437.73	0.0088	0.0072
Mercury	64117-08-01 06:00 G	25139525.63	25139525.75	25139525.88	0.0088	0.0062
Mercury	64117-10-28 08:39 G	25139613.73	25139613.86	25139614.01	0.0088	0.0053
Venus	64117-12-11 18:29 G	25139658.11	25139658.27	25139658.45	0.0088	0.0054
Mercury	64118-01-24 11:31 G	25139701.83	25139701.98	25139702.15	0.0088	0.0043

Mercury	64118-04-22 14:24 G	25139789.95	25139790.10	25139790.28	0.0088	0.0033
Mercury	64118-07-19 17:31 G	25139878.06	25139878.23	25139878.40	0.0088	0.0023
Venus	64118-07-25 07:12 G	25139883.63	25139883.80	25139883.99	0.0088	0.0049
Mercury	64118-10-15 20:24 G	25139966.17	25139966.35	25139966.53	0.0088	0.0013
Mercury	64119-01-11 23:17 G	25140054.29	25140054.47	25140054.65	0.0088	0.0004
Venus	64119-03-07 19:41 G	25140109.15	25140109.32	25140109.53	0.0088	0.0045
Mercury	64119-04-10 02:10 G	25140142.42	25140142.59	25140142.77	0.0088	0.0007
Mercury	64119-07-07 05:03 G	25140230.54	25140230.71	25140230.90	0.0088	0.0017
Mercury	64119-10-03 07:55 G	25140318.67	25140318.83	25140319.01	0.0088	0.0027
Venus	64119-10-19 08:39 G	25140334.68	25140334.86	25140335.07	0.0088	0.0040
Mercury	64119-12-30 10:48 G	25140406.80	25140406.95	25140407.13	0.0088	0.0037
Mercury	64120-03-27 13:41 G	25140494.94	25140495.07	25140495.24	0.0088	0.0048
Venus	64120-05-31 21:36 G	25140560.21	25140560.40	25140560.61	0.0088	0.0035
Mercury	64120-06-23 16:48 G	25140583.08	25140583.20	25140583.35	0.0088	0.0057
Mercury	64120-09-19 19:55 G	25140671.22	25140671.33	25140671.46	0.0088	0.0067
Earth	64120-12-07 01:12 G	25140749.50	25140749.55	25140749.59	0.0088	0.0087
Moon	64120-12-07 04:19 G	25140749.64	25140749.68	25140749.76	0.0088	0.0085
Mercury	64120-12-16 22:48 G	25140759.38	25140759.45	25140759.55	0.0088	0.0078
Venus	64121-01-12 10:19 G	25140785.73	25140785.93	25140786.14	0.0088	0.0030
Mercury	64121-03-15 01:55 G	25140847.57	25140847.58	25140847.61	0.0088	0.0088
Venus	64121-08-25 23:17 G	25141011.26	25141011.47	25141011.68	0.0088	0.0025
Moon	64121-12-09 09:22 G	25141116.70	25141116.89	25141117.08	0.0088	0.0058
Earth	64121-12-09 12:29 G	25141116.84	25141117.02	25141117.23	0.0088	0.0057 *
Venus	64122-04-08 12:00 G	25141236.79	25141237.00	25141237.22	0.0088	0.0020
Venus	64122-11-20 00:43 G	25141462.32	25141462.53	25141462.75	0.0088	0.0016
Earth	64122-12-12 00:15 G	25141484.27	25141484.51	25141484.76	0.0088	0.0027
Moon	64122-12-12 03:36 G	25141484.39	25141484.65	25141484.90	0.0088	0.0026 *
Venus	64123-07-03 13:27 G	25141687.84	25141688.06	25141688.28	0.0088	0.0011
Moon	64123-12-14 09:36 G	25141851.65	25141851.90	25141852.15	0.0088	0.0001
Earth	64123-12-14 12:00 G	25141851.74	25141852.00	25141852.26	0.0088	0.0002 *

Venus	64124-02-14 02:10 G	25141913.37	25141913.59	25141913.81	0.0088	0.0006
Venus	64124-09-26 15:07 G	25142138.91	25142139.13	25142139.35	0.0088	0.0001
Earth	64124-12-15 22:48 G	25142219.23	25142219.45	25142219.71	0.0088	0.0033
Moon	64124-12-15 23:46 G	25142219.26	25142219.49	25142219.75	0.0088	0.0033 *
Venus	64125-05-10 03:51 G	25142364.44	25142364.66	25142364.88	0.0088	0.0004
Earth	64125-12-18 10:34 G	25142586.77	25142586.94	25142587.14	0.0088	0.0061
Moon	64125-12-18 10:19 G	25142586.77	25142586.93	25142587.13	0.0088	0.0060 *
Venus	64125-12-21 16:19 G	25142589.97	25142590.18	25142590.40	0.0088	0.0009
Venus	64126-08-04 05:03 G	25142815.50	25142815.71	25142815.93	0.0088	0.0014
Venus	64127-03-17 17:46 G	25143041.03	25143041.24	25143041.46	0.0088	0.0019
Venus	64127-10-29 06:29 G	25143266.57	25143266.77	25143266.99	0.0088	0.0024
Venus	64128-06-10 19:12 G	25143492.10	25143492.30	25143492.52	0.0088	0.0029
Venus	64129-01-22 07:55 G	25143717.64	25143717.83	25143718.04	0.0088	0.0033
Venus	64129-09-04 20:39 G	25143943.18	25143943.36	25143943.57	0.0088	0.0038
Venus	64130-04-18 09:22 G	25144168.72	25144168.89	25144169.10	0.0088	0.0043
Venus	64130-11-29 22:34 G	25144394.26	25144394.44	25144394.62	0.0088	0.0048
Venus	64131-07-13 11:03 G	25144619.80	25144619.96	25144620.15	0.0088	0.0053
Venus	64132-02-23 23:46 G	25144845.34	25144845.49	25144845.67	0.0088	0.0058
Venus	64132-10-06 12:43 G	25145070.89	25145071.03	25145071.20	0.0088	0.0062
Venus	64133-05-20 01:41 G	25145296.44	25145296.57	25145296.73	0.0089	0.0067
Venus	64133-12-31 14:24 G	25145521.99	25145522.10	25145522.24	0.0089	0.0072
Venus	64134-08-14 03:36 G	25145747.54	25145747.65	25145747.76	0.0089	0.0076
Venus	64135-03-27 16:05 G	25145973.10	25145973.17	25145973.27	0.0089	0.0081
Venus	64135-11-08 04:48 G	25146198.67	25146198.70	25146198.78	0.0089	0.0086
Mars	64155-11-21 02:53 G	25153516.37	25153516.62	25153516.91	0.0089	0.0050
Venus	64195-02-18 22:34 G	25167851.39	25167851.44	25167851.51	0.0089	0.0086
Venus	64195-10-02 11:46 G	25168076.92	25168076.99	25168077.10	0.0089	0.0081
Venus	64196-05-15 01:12 G	25168302.45	25168302.55	25168302.68	0.0089	0.0077
Venus	64196-12-26 14:39 G	25168527.99	25168528.11	25168528.25	0.0089	0.0072
Venus	64197-08-09 04:19 G	25168753.54	25168753.68	25168753.83	0.0089	0.0067

Mercury	64197-12-06 03:51 G	25168872.65	25168872.66	25168872.68	0.0089	0.0089
Mercury	64198-03-04 05:17 G	25168960.67	25168960.72	25168960.79	0.0089	0.0081
Venus	64198-03-22 18:00 G	25168979.09	25168979.25	25168979.40	0.0089	0.0062
Mercury	64198-05-31 06:58 G	25169048.72	25169048.79	25169048.89	0.0089	0.0072
Mercury	64198-08-27 08:53 G	25169136.77	25169136.87	25169136.97	0.0089	0.0064
Venus	64198-11-03 06:43 G	25169204.63	25169204.78	25169204.97	0.0089	0.0058
Mercury	64198-11-23 10:19 G	25169224.83	25169224.93	25169225.05	0.0089	0.0056
Mercury	64199-02-19 12:00 G	25169312.89	25169313.00	25169313.13	0.0089	0.0047
Mercury	64199-05-18 13:41 G	25169400.95	25169401.07	25169401.20	0.0089	0.0039
Venus	64199-06-16 20:10 G	25169430.18	25169430.34	25169430.53	0.0089	0.0052
Mercury	64199-08-14 15:22 G	25169489.01	25169489.14	25169489.27	0.0089	0.0031
Mercury	64199-11-10 17:03 G	25169577.07	25169577.21	25169577.35	0.0089	0.0023
Venus	64200-01-28 09:22 G	25169655.72	25169655.89	25169656.10	0.0089	0.0048
Mercury	64200-02-06 18:29 G	25169665.14	25169665.27	25169665.41	0.0089	0.0015
Mercury	64200-05-05 20:10 G	25169753.20	25169753.34	25169753.48	0.0089	0.0006
Mercury	64200-08-01 21:51 G	25169841.27	25169841.41	25169841.55	0.0089	0.0002
Venus	64200-09-10 22:48 G	25169881.27	25169881.45	25169881.66	0.0089	0.0043
Mercury	64200-10-28 23:17 G	25169929.33	25169929.47	25169929.61	0.0089	0.0010
Mercury	64201-01-25 00:58 G	25170017.40	25170017.54	25170017.68	0.0089	0.0018
Mercury	64201-04-23 02:24 G	25170105.47	25170105.60	25170105.74	0.0089	0.0026
Venus	64201-04-24 12:15 G	25170106.82	25170107.01	25170107.22	0.0089	0.0037
Mercury	64201-07-20 03:51 G	25170193.54	25170193.66	25170193.80	0.0089	0.0035
Mercury	64201-10-16 05:31 G	25170281.61	25170281.73	25170281.86	0.0089	0.0042
Venus	64201-12-06 01:27 G	25170332.37	25170332.56	25170332.78	0.0089	0.0033
Mercury	64202-01-12 06:58 G	25170369.68	25170369.79	25170369.91	0.0089	0.0050
Mercury	64202-04-10 08:24 G	25170457.76	25170457.85	25170457.97	0.0089	0.0059
Earth	64202-06-06 18:58 G	25170515.21	25170515.29	25170515.42	0.0089	0.0081
Moon	64202-06-06 22:34 G	25170515.34	25170515.44	25170515.59	0.0089	0.0077 *
Mercury	64202-07-07 09:51 G	25170545.83	25170545.91	25170546.02	0.0089	0.0067
Venus	64202-07-19 14:53 G	25170557.92	25170558.12	25170558.34	0.0089	0.0027

Mercury	64202-10-03 11:46 G	25170633.91	25170633.99	25170634.07	0.0089	0.0074
Mercury	64202-12-30 13:12 G	25170722.00	25170722.05	25170722.11	0.0089	0.0082
Venus	64203-03-02 04:19 G	25170783.47	25170783.68	25170783.90	0.0089	0.0022
Moon	64203-06-09 03:36 G	25170882.48	25170882.65	25170882.88	0.0089	0.0055
Earth	64203-06-09 07:12 G	25170882.59	25170882.80	25170883.01	0.0089	0.0051 *
Venus	64203-10-13 17:31 G	25171009.02	25171009.23	25171009.46	0.0089	0.0017
Venus	64204-05-26 06:58 G	25171234.57	25171234.79	25171235.01	0.0089	0.0012
Earth	64204-06-10 18:43 G	25171250.04	25171250.28	25171250.54	0.0089	0.0020
Moon	64204-06-10 21:36 G	25171250.14	25171250.40	25171250.66	0.0089	0.0017 *
Venus	64205-01-06 20:10 G	25171460.13	25171460.34	25171460.57	0.0089	0.0007
Moon	64205-06-13 05:31 G	25171617.48	25171617.73	25171617.98	0.0089	0.0007
Earth	64205-06-13 06:29 G	25171617.52	25171617.77	25171618.03	0.0089	0.0010 *
Venus	64205-08-20 09:36 G	25171685.68	25171685.90	25171686.12	0.0089	0.0002
Venus	64206-04-02 23:03 G	25171911.24	25171911.46	25171911.68	0.0089	0.0003
Earth	64206-06-15 18:00 G	25171985.03	25171985.25	25171985.49	0.0089	0.0040
Moon	64206-06-15 18:00 G	25171985.03	25171985.25	25171985.50	0.0089	0.0043 *
Venus	64206-11-14 12:15 G	25172136.79	25172137.01	25172137.23	0.0089	0.0008
Earth	64207-06-18 05:17 G	25172352.60	25172352.72	25172352.91	0.0089	0.0071
Moon	64207-06-18 06:29 G	25172352.63	25172352.77	25172352.94	0.0089	0.0068 *
Venus	64207-06-28 01:27 G	25172362.35	25172362.56	25172362.78	0.0089	0.0014
Venus	64208-02-08 14:53 G	25172587.90	25172588.12	25172588.34	0.0089	0.0018
Venus	64208-09-21 04:19 G	25172813.46	25172813.68	25172813.89	0.0089	0.0024
Venus	64209-05-04 17:17 G	25173039.03	25173039.22	25173039.45	0.0089	0.0029
Venus	64209-12-16 06:58 G	25173264.59	25173264.79	25173264.99	0.0089	0.0033
Venus	64210-07-29 20:10 G	25173490.14	25173490.34	25173490.54	0.0089	0.0038
Venus	64211-03-12 09:36 G	25173715.71	25173715.90	25173716.09	0.0089	0.0043
Venus	64211-10-23 22:48 G	25173941.27	25173941.45	25173941.64	0.0089	0.0048
Venus	64212-06-05 12:00 G	25174166.83	25174167.00	25174167.18	0.0089	0.0053
Venus	64213-01-17 00:58 G	25174392.39	25174392.54	25174392.72	0.0089	0.0058
Venus	64213-08-30 14:10 G	25174617.95	25174618.09	25174618.26	0.0089	0.0063



Venus	64214-04-13 03:22 G	25174843.52	25174843.64	25174843.80	0.0089	0.0068
Venus	64214-11-24 17:03 G	25175069.08	25175069.21	25175069.34	0.0089	0.0072
Venus	64215-07-08 05:46 G	25175294.65	25175294.74	25175294.86	0.0089	0.0077
Venus	64216-02-18 18:43 G	25175520.22	25175520.28	25175520.39	0.0089	0.0082
Venus	64216-10-01 08:24 G	25175745.80	25175745.85	25175745.90	0.0089	0.0086
Jupiter	64221-07-24 09:07 G	25177502.44	25177502.88	25177503.40	0.0089	0.0039
Mars	64237-10-21 08:39 G	25183435.55	25183435.86	25183436.16	0.0088	0.0001
Venus	64277-11-18 12:58 G	25198073.99	25198074.04	25198074.11	0.0088	0.0084
Venus	64278-07-02 01:12 G	25198299.49	25198299.55	25198299.67	0.0088	0.0080
Venus	64279-02-12 14:10 G	25198524.99	25198525.09	25198525.22	0.0088	0.0075
Venus	64279-09-26 02:53 G	25198750.51	25198750.62	25198750.77	0.0088	0.0071
Venus	64280-05-08 15:36 G	25198976.02	25198976.15	25198976.31	0.0088	0.0066
Venus	64280-12-20 04:05 G	25199201.54	25199201.67	25199201.85	0.0088	0.0062
Venus	64281-08-02 16:48 G	25199427.05	25199427.20	25199427.39	0.0088	0.0057
Mercury	64281-08-07 20:24 G	25199432.32	25199432.35	25199432.39	0.0088	0.0085
Mercury	64281-11-03 23:03 G	25199520.38	25199520.46	25199520.56	0.0088	0.0076
Mercury	64282-01-31 01:55 G	25199608.47	25199608.58	25199608.70	0.0088	0.0066
Venus	64282-03-16 05:46 G	25199652.57	25199652.74	25199652.93	0.0088	0.0052
Mercury	64282-04-29 04:34 G	25199696.57	25199696.69	25199696.84	0.0088	0.0057
Mercury	64282-07-26 07:27 G	25199784.68	25199784.81	25199784.98	0.0088	0.0047
Mercury	64282-10-22 10:34 G	25199872.78	25199872.94	25199873.11	0.0088	0.0037
Venus	64282-10-27 18:43 G	25199878.09	25199878.28	25199878.46	0.0088	0.0047
Mercury	64283-01-18 13:27 G	25199960.89	25199961.06	25199961.23	0.0088	0.0027
Mercury	64283-04-16 16:19 G	25200049.01	25200049.18	25200049.36	0.0088	0.0018
Venus	64283-06-10 06:58 G	25200103.62	25200103.79	25200104.00	0.0088	0.0043
Mercury	64283-07-13 19:12 G	25200137.12	25200137.30	25200137.48	0.0088	0.0008
Mercury	64283-10-09 22:05 G	25200225.25	25200225.42	25200225.60	0.0088	0.0003
Mercury	64284-01-06 01:12 G	25200313.37	25200313.55	25200313.73	0.0088	0.0012
Venus	64284-01-21 19:55 G	25200329.14	25200329.33	25200329.54	0.0088	0.0038
Mercury	64284-04-03 04:05 G	25200401.49	25200401.67	25200401.84	0.0088	0.0022

Mercury	64284-06-30 06:58 G	25200489.62	25200489.79	25200489.96	0.0088	0.0032
Venus	64284-09-03 08:39 G	25200554.67	25200554.86	25200555.08	0.0088	0.0033
Mercury	64284-09-26 09:51 G	25200577.76	25200577.91	25200578.07	0.0088	0.0042
Mercury	64284-12-23 12:43 G	25200665.90	25200666.03	25200666.18	0.0088	0.0053
Mercury	64285-03-21 15:51 G	25200754.04	25200754.16	25200754.29	0.0088	0.0062
Venus	64285-04-16 21:36 G	25200780.20	25200780.40	25200780.61	0.0088	0.0028
Mercury	64285-06-17 18:29 G	25200842.19	25200842.27	25200842.39	0.0088	0.0073
Mercury	64285-09-13 21:36 G	25200930.36	25200930.40	25200930.47	0.0088	0.0083
Venus	64285-11-28 10:19 G	25201005.72	25201005.93	25201006.15	0.0088	0.0023
Earth	64285-12-09 22:05 G	25201017.27	25201017.42	25201017.58	0.0088	0.0070
Moon	64285-12-10 00:29 G	25201017.40	25201017.52	25201017.68	0.0088	0.0075 *
Venus	64286-07-11 22:48 G	25201231.25	25201231.45	25201231.68	0.0088	0.0019
Moon	64286-12-12 07:55 G	25201384.62	25201384.83	25201385.08	0.0088	0.0037
Earth	64286-12-12 09:36 G	25201384.69	25201384.90	25201385.15	0.0088	0.0042 *
Venus	64287-02-22 11:46 G	25201456.78	25201456.99	25201457.21	0.0088	0.0014
Venus	64287-10-06 00:43 G	25201682.31	25201682.53	25201682.75	0.0088	0.0009
Earth	64287-12-14 21:22 G	25201752.14	25201752.39	25201752.65	0.0088	0.0012
Moon	64287-12-14 22:05 G	25201752.17	25201752.42	25201752.70	0.0088	0.0017 *
Venus	64288-05-18 13:27 G	25201907.85	25201908.06	25201908.28	0.0088	0.0004
Earth	64288-12-16 08:53 G	25202119.63	25202119.87	25202120.13	0.0088	0.0019
Moon	64288-12-16 09:51 G	25202119.68	25202119.91	25202120.16	0.0088	0.0023 *
Venus	64288-12-30 02:10 G	25202133.37	25202133.59	25202133.81	0.0088	0.0002
Venus	64289-08-12 14:53 G	25202358.90	25202359.12	25202359.34	0.0088	0.0006
Moon	64289-12-18 18:43 G	25202487.05	25202487.28	25202487.52	0.0088	0.0044
Earth	64289-12-18 20:10 G	25202487.15	25202487.34	25202487.58	0.0088	0.0049 *
Venus	64290-03-26 03:36 G	25202584.44	25202584.65	25202584.87	0.0088	0.0011
Venus	64290-11-06 16:34 G	25202809.97	25202810.19	25202810.40	0.0088	0.0016
Earth	64290-12-21 07:41 G	25202854.72	25202854.82	25202854.96	0.0088	0.0078
Moon	64290-12-21 10:05 G	25202854.86	25202854.92	25202855.04	0.0088	0.0083 *
Venus	64291-06-20 05:03 G	25203035.50	25203035.71	25203035.93	0.0088	0.0021

Venus	64292-01-31 17:46 G	25203261.04	25203261.24	25203261.46	0.0088	0.0025
Venus	64292-09-13 06:29 G	25203486.58	25203486.77	25203486.99	0.0088	0.0031
Venus	64293-04-26 19:12 G	25203712.11	25203712.30	25203712.51	0.0088	0.0035
Venus	64293-12-08 07:55 G	25203937.65	25203937.83	25203938.04	0.0088	0.0040
Venus	64294-07-21 20:53 G	25204163.18	25204163.37	25204163.56	0.0088	0.0045
Venus	64295-03-04 09:22 G	25204388.72	25204388.89	25204389.09	0.0088	0.0050
Venus	64295-10-15 22:19 G	25204614.27	25204614.43	25204614.62	0.0088	0.0055
Venus	64296-05-28 11:03 G	25204839.82	25204839.96	25204840.14	0.0088	0.0060
Venus	64297-01-09 00:00 G	25205065.36	25205065.50	25205065.66	0.0088	0.0064
Venus	64297-08-22 12:43 G	25205290.91	25205291.03	25205291.18	0.0088	0.0069
Venus	64298-04-05 01:27 G	25205516.46	25205516.56	25205516.70	0.0089	0.0074
Venus	64298-11-16 14:39 G	25205742.02	25205742.11	25205742.23	0.0089	0.0078
Venus	64299-06-30 03:22 G	25205967.58	25205967.64	25205967.74	0.0089	0.0083
Venus	64300-02-10 16:19 G	25206193.16	25206193.18	25206193.23	0.0089	0.0087
Mars	64321-06-01 18:43 G	25213974.02	25213974.28	25213974.59	0.0089	0.0044
Venus	64358-10-11 19:55 G	25227620.31	25227620.33	25227620.36	0.0089	0.0089
Venus	64359-05-25 08:53 G	25227845.82	25227845.87	25227845.96	0.0089	0.0085
Venus	64360-01-05 22:19 G	25228071.35	25228071.43	25228071.54	0.0089	0.0080
Venus	64360-08-18 11:46 G	25228296.88	25228296.99	25228297.12	0.0089	0.0075
Venus	64361-04-01 00:58 G	25228522.43	25228522.54	25228522.70	0.0089	0.0071
Venus	64361-11-12 14:24 G	25228747.97	25228748.10	25228748.27	0.0089	0.0066
Venus	64362-06-26 03:51 G	25228973.52	25228973.66	25228973.84	0.0089	0.0061
Mercury	64362-09-04 03:07 G	25229043.60	25229043.63	25229043.69	0.0089	0.0085
Mercury	64362-12-01 05:03 G	25229131.64	25229131.71	25229131.79	0.0089	0.0076
Venus	64363-02-06 17:17 G	25229199.07	25229199.22	25229199.41	0.0089	0.0056
Mercury	64363-02-27 06:43 G	25229219.69	25229219.78	25229219.88	0.0089	0.0067
Mercury	64363-05-26 08:10 G	25229307.75	25229307.84	25229307.96	0.0089	0.0060
Mercury	64363-08-22 10:05 G	25229395.81	25229395.92	25229396.04	0.0089	0.0051
Venus	64363-09-20 06:43 G	25229424.62	25229424.78	25229424.98	0.0089	0.0051
Mercury	64363-11-18 11:46 G	25229483.87	25229483.99	25229484.12	0.0089	0.0042

Mercury	64364-02-14 13:12 G	25229571.93	25229572.05	25229572.19	0.0089	0.0035
Venus	64364-05-02 20:10 G	25229650.17	25229650.34	25229650.55	0.0089	0.0046
Mercury	64364-05-12 14:53 G	25229659.99	25229660.12	25229660.26	0.0089	0.0026
Mercury	64364-08-08 16:34 G	25229748.06	25229748.19	25229748.33	0.0089	0.0018
Mercury	64364-11-04 18:15 G	25229836.12	25229836.26	25229836.40	0.0089	0.0010
Venus	64364-12-14 09:36 G	25229875.72	25229875.90	25229876.11	0.0089	0.0041
Mercury	64365-01-31 19:55 G	25229924.19	25229924.33	25229924.47	0.0089	0.0002
Mercury	64365-04-29 21:22 G	25230012.25	25230012.39	25230012.54	0.0089	0.0007
Mercury	64365-07-26 23:03 G	25230100.32	25230100.46	25230100.60	0.0089	0.0015
Venus	64365-07-27 23:03 G	25230101.27	25230101.46	25230101.67	0.0089	0.0035
Mercury	64365-10-23 00:29 G	25230188.39	25230188.52	25230188.66	0.0089	0.0023
Mercury	64366-01-19 02:10 G	25230276.46	25230276.59	25230276.72	0.0089	0.0031
Venus	64366-03-10 12:29 G	25230326.82	25230327.02	25230327.23	0.0089	0.0030
Mercury	64366-04-17 03:36 G	25230364.53	25230364.65	25230364.78	0.0089	0.0039
Mercury	64366-07-14 05:03 G	25230452.60	25230452.71	25230452.84	0.0089	0.0048
Mercury	64366-10-10 06:43 G	25230540.68	25230540.78	25230540.90	0.0089	0.0055
Venus	64366-10-22 01:41 G	25230552.37	25230552.57	25230552.79	0.0089	0.0026
Mercury	64367-01-06 08:24 G	25230628.75	25230628.85	25230628.95	0.0089	0.0063
Mercury	64367-04-04 09:51 G	25230716.83	25230716.91	25230717.00	0.0089	0.0071
Venus	64367-06-04 15:07 G	25230777.92	25230778.13	25230778.35	0.0089	0.0020
Earth	64367-06-09 16:48 G	25230783.04	25230783.20	25230783.39	0.0089	0.0064
Moon	64367-06-09 18:43 G	25230783.10	25230783.28	25230783.48	0.0089	0.0062 *
Mercury	64367-07-01 11:17 G	25230804.92	25230804.97	25230805.04	0.0089	0.0079
Mercury	64367-09-27 12:43 G	25230893.01	25230893.03	25230893.07	0.0089	0.0087
Venus	64368-01-16 04:19 G	25231003.47	25231003.68	25231003.90	0.0089	0.0015
Moon	64368-06-11 03:36 G	25231150.43	25231150.65	25231150.88	0.0089	0.0037
Earth	64368-06-11 04:34 G	25231150.47	25231150.69	25231150.94	0.0089	0.0034 *
Venus	64368-08-28 17:46 G	25231229.02	25231229.24	25231229.46	0.0089	0.0010
Venus	64369-04-11 07:12 G	25231454.58	25231454.80	25231455.02	0.0089	0.0005
Moon	64369-06-13 15:51 G	25231517.90	25231518.16	25231518.43	0.0089	0.0001

Earth	64369-06-13 16:19 G	25231517.93	25231518.18	25231518.44	0.0089	0.0004 *
Venus	64369-11-22 20:24 G	25231680.13	25231680.35	25231680.58	0.0089	0.0002
Earth	64370-06-16 04:05 G	25231885.43	25231885.67	25231885.92	0.0089	0.0027
Moon	64370-06-16 05:31 G	25231885.50	25231885.73	25231885.98	0.0089	0.0024 *
Venus	64370-07-06 09:36 G	25231905.69	25231905.90	25231906.13	0.0089	0.0006
Venus	64371-02-16 23:03 G	25232131.24	25232131.46	25232131.68	0.0089	0.0010
Moon	64371-06-18 12:58 G	25232252.87	25232253.04	25232253.26	0.0089	0.0061
Earth	64371-06-18 15:22 G	25232252.97	25232253.14	25232253.36	0.0089	0.0057 *
Venus	64371-09-30 12:15 G	25232356.80	25232357.01	25232357.23	0.0089	0.0015
Venus	64372-05-13 01:41 G	25232582.36	25232582.57	25232582.79	0.0089	0.0020
Earth	64372-06-20 03:07 G	25232620.60	25232620.63	25232620.70	0.0089	0.0087
Moon	64372-06-20 06:29 G	25232620.71	25232620.77	25232620.88	0.0089	0.0084
Venus	64372-12-24 14:53 G	25232807.91	25232808.12	25232808.34	0.0089	0.0025
Venus	64373-08-07 04:19 G	25233033.47	25233033.68	25233033.89	0.0089	0.0030
Venus	64374-03-20 17:31 G	25233259.04	25233259.23	25233259.44	0.0089	0.0036
Venus	64374-11-01 06:58 G	25233484.60	25233484.79	25233484.99	0.0089	0.0040
Venus	64375-06-14 20:10 G	25233710.16	25233710.34	25233710.54	0.0089	0.0045
Venus	64376-01-26 09:22 G	25233935.72	25233935.89	25233936.08	0.0089	0.0050
Venus	64376-09-07 22:34 G	25234161.28	25234161.44	25234161.63	0.0089	0.0055
Venus	64377-04-21 12:00 G	25234386.85	25234387.00	25234387.18	0.0089	0.0060
Venus	64377-12-03 01:12 G	25234612.42	25234612.55	25234612.72	0.0089	0.0065
Venus	64378-07-16 14:10 G	25234837.98	25234838.09	25234838.25	0.0089	0.0070
Venus	64379-02-27 03:51 G	25235063.55	25235063.66	25235063.78	0.0089	0.0074
Venus	64379-10-10 16:48 G	25235289.12	25235289.20	25235289.32	0.0089	0.0079
Venus	64380-05-23 06:00 G	25235514.70	25235514.75	25235514.84	0.0089	0.0084
Venus	64381-01-03 19:27 G	25235740.30	25235740.31	25235740.34	0.0089	0.0088
Jupiter	64387-09-23 14:24 G	25238193.82	25238194.10	25238194.40	0.0089	0.0074
Mars	64401-06-06 11:03 G	25243198.75	25243198.96	25243199.22	0.0088	0.0056
Mars	64403-05-01 17:46 G	25243893.16	25243893.24	25243893.35	0.0088	0.0083
Venus	64441-07-10 11:31 G	25257842.97	25257842.98	25257843.03	0.0088	0.0087

Venus	64442-02-21 00:15 G	25258068.46	25258068.51	25258068.61	0.0088	0.0083
Venus	64442-10-04 13:12 G	25258293.97	25258294.05	25258294.17	0.0088	0.0078
Venus	64443-05-18 01:41 G	25258519.48	25258519.57	25258519.71	0.0088	0.0074
Venus	64443-12-29 14:39 G	25258744.99	25258745.11	25258745.26	0.0088	0.0069
Venus	64444-08-11 03:22 G	25258970.50	25258970.64	25258970.80	0.0088	0.0064
Venus	64445-03-24 15:51 G	25259196.02	25259196.16	25259196.34	0.0088	0.0060
Venus	64445-11-05 04:34 G	25259421.54	25259421.69	25259421.88	0.0088	0.0055
Mercury	64446-05-05 19:27 G	25259603.24	25259603.31	25259603.39	0.0088	0.0079
Venus	64446-06-18 17:31 G	25259647.06	25259647.23	25259647.42	0.0088	0.0050
Mercury	64446-08-01 22:05 G	25259691.33	25259691.42	25259691.54	0.0088	0.0070
Mercury	64446-10-29 00:58 G	25259779.42	25259779.54	25259779.68	0.0088	0.0060
Mercury	64447-01-25 03:51 G	25259867.53	25259867.66	25259867.82	0.0088	0.0050
Venus	64447-01-30 05:46 G	25259872.58	25259872.74	25259872.95	0.0088	0.0046
Mercury	64447-04-23 06:29 G	25259955.63	25259955.77	25259955.95	0.0088	0.0041
Mercury	64447-07-20 09:36 G	25260043.74	25260043.90	25260044.07	0.0088	0.0031
Venus	64447-09-12 18:43 G	25260098.10	25260098.28	25260098.49	0.0088	0.0041
Mercury	64447-10-16 12:29 G	25260131.85	25260132.02	25260132.20	0.0088	0.0021
Mercury	64448-01-12 15:22 G	25260219.97	25260220.14	25260220.32	0.0088	0.0011
Mercury	64448-04-09 18:29 G	25260308.09	25260308.27	25260308.44	0.0088	0.0003
Venus	64448-04-25 07:41 G	25260323.63	25260323.82	25260324.03	0.0088	0.0036
Mercury	64448-07-06 21:07 G	25260396.21	25260396.38	25260396.56	0.0088	0.0009
Mercury	64448-10-03 00:15 G	25260484.33	25260484.51	25260484.68	0.0088	0.0018
Venus	64448-12-06 20:24 G	25260549.15	25260549.35	25260549.56	0.0088	0.0031
Mercury	64448-12-30 03:07 G	25260572.46	25260572.63	25260572.80	0.0088	0.0028
Mercury	64449-03-28 06:00 G	25260660.59	25260660.75	25260660.91	0.0088	0.0038
Mercury	64449-06-24 09:07 G	25260748.73	25260748.88	25260749.03	0.0088	0.0049
Venus	64449-07-20 09:07 G	25260774.68	25260774.88	25260775.09	0.0088	0.0026
Mercury	64449-09-20 12:00 G	25260836.87	25260837.00	25260837.13	0.0088	0.0059
Moon	64449-12-10 06:43 G	25260917.73	25260917.78	25260917.88	0.0088	0.0085
Earth	64449-12-10 08:24 G	25260917.78	25260917.85	25260917.93	0.0088	0.0084 *

Mercury	64449-12-17 14:39 G	25260925.01	25260925.11	25260925.24	0.0088	0.0069
Venus	64450-03-02 22:05 G	25261000.20	25261000.42	25261000.63	0.0088	0.0022
Mercury	64450-03-15 17:31 G	25261013.17	25261013.23	25261013.33	0.0088	0.0079
Venus	64450-10-14 10:34 G	25261225.74	25261225.94	25261226.17	0.0088	0.0017
Moon	64450-12-12 19:12 G	25261285.11	25261285.30	25261285.54	0.0088	0.0054
Earth	64450-12-12 19:41 G	25261285.13	25261285.32	25261285.54	0.0088	0.0054 *
Venus	64451-05-27 23:31 G	25261451.27	25261451.48	25261451.70	0.0088	0.0012
Earth	64451-12-15 07:41 G	25261652.57	25261652.82	25261653.07	0.0088	0.0025
Moon	64451-12-15 08:24 G	25261652.62	25261652.85	25261653.10	0.0088	0.0024 *
Venus	64452-01-08 12:15 G	25261676.80	25261677.01	25261677.23	0.0088	0.0007
Venus	64452-08-21 01:12 G	25261902.33	25261902.55	25261902.77	0.0088	0.0002
Moon	64452-12-16 16:48 G	25262019.94	25262020.20	25262020.47	0.0088	0.0005
Earth	64452-12-16 19:27 G	25262020.05	25262020.31	25262020.57	0.0088	0.0005 *
Venus	64453-04-03 13:55 G	25262127.86	25262128.08	25262128.30	0.0088	0.0003
Venus	64453-11-15 02:39 G	25262353.39	25262353.61	25262353.83	0.0088	0.0008
Earth	64453-12-19 06:29 G	25262387.56	25262387.77	25262388.03	0.0088	0.0036
Moon	64453-12-19 10:05 G	25262387.69	25262387.92	25262388.16	0.0088	0.0035 *
Venus	64454-06-28 15:22 G	25262578.93	25262579.14	25262579.36	0.0088	0.0013
Moon	64454-12-21 14:53 G	25262754.95	25262755.12	25262755.31	0.0088	0.0064
Earth	64454-12-21 18:15 G	25262755.10	25262755.26	25262755.46	0.0088	0.0065 *
Venus	64455-02-09 04:05 G	25262804.46	25262804.67	25262804.89	0.0088	0.0018
Venus	64455-09-22 17:03 G	25263030.00	25263030.21	25263030.42	0.0088	0.0023
Venus	64456-05-05 05:31 G	25263255.53	25263255.73	25263255.95	0.0088	0.0028
Venus	64456-12-16 18:15 G	25263481.07	25263481.26	25263481.47	0.0088	0.0033
Venus	64457-07-30 06:43 G	25263706.60	25263706.78	25263707.00	0.0088	0.0038
Venus	64458-03-12 19:27 G	25263932.13	25263932.31	25263932.52	0.0088	0.0042
Venus	64458-10-24 08:39 G	25264157.68	25264157.86	25264158.05	0.0088	0.0047
Venus	64459-06-06 21:07 G	25264383.22	25264383.38	25264383.57	0.0088	0.0052
Venus	64460-01-18 09:51 G	25264608.76	25264608.91	25264609.09	0.0088	0.0057
Venus	64460-08-30 23:03 G	25264834.30	25264834.46	25264834.62	0.0088	0.0061

Venus	64461-04-13 11:31 G	25265059.84	25265059.98	25265060.14	0.0088	0.0066
Venus	64461-11-25 00:15 G	25265285.40	25265285.51	25265285.66	0.0088	0.0071
Venus	64462-07-08 13:27 G	25265510.95	25265511.06	25265511.17	0.0089	0.0075
Venus	64463-02-19 01:55 G	25265736.50	25265736.58	25265736.69	0.0089	0.0080
Venus	64463-10-02 14:39 G	25265962.07	25265962.11	25265962.20	0.0089	0.0085
Mars	64485-01-14 02:53 G	25273736.32	25273736.62	25273736.95	0.0089	0.0018
Venus	64523-01-14 06:29 G	25287614.75	25287614.77	25287614.84	0.0090	0.0088
Venus	64523-08-27 20:10 G	25287840.27	25287840.34	25287840.44	0.0089	0.0083
Venus	64524-04-09 09:36 G	25288065.81	25288065.90	25288066.02	0.0089	0.0078
Venus	64524-11-20 22:34 G	25288291.34	25288291.44	25288291.59	0.0089	0.0074
Venus	64525-07-04 12:00 G	25288516.88	25288517.00	25288517.16	0.0089	0.0069
Venus	64526-02-15 01:27 G	25288742.43	25288742.56	25288742.74	0.0089	0.0064
Venus	64526-09-28 14:53 G	25288967.97	25288968.12	25288968.30	0.0089	0.0059
Mercury	64527-03-06 01:12 G	25289126.54	25289126.55	25289126.59	0.0089	0.0088
Venus	64527-05-12 04:19 G	25289193.52	25289193.68	25289193.87	0.0089	0.0054
Mercury	64527-06-02 03:22 G	25289214.57	25289214.64	25289214.70	0.0089	0.0079
Mercury	64527-08-29 04:48 G	25289302.62	25289302.70	25289302.79	0.0089	0.0071
Mercury	64527-11-25 06:15 G	25289390.67	25289390.76	25289390.88	0.0089	0.0063
Venus	64527-12-23 17:46 G	25289419.07	25289419.24	25289419.44	0.0089	0.0049
Mercury	64528-02-21 07:55 G	25289478.73	25289478.83	25289478.96	0.0089	0.0055
Mercury	64528-05-19 09:51 G	25289566.79	25289566.91	25289567.03	0.0089	0.0046
Venus	64528-08-05 07:12 G	25289644.62	25289644.80	25289645.00	0.0089	0.0044
Mercury	64528-08-15 11:31 G	25289654.85	25289654.98	25289655.11	0.0089	0.0037
Mercury	64528-11-11 12:58 G	25289742.91	25289743.04	25289743.18	0.0089	0.0030
Mercury	64529-02-07 14:39 G	25289830.98	25289831.11	25289831.25	0.0089	0.0021
Venus	64529-03-18 20:39 G	25289870.17	25289870.36	25289870.57	0.0089	0.0039
Mercury	64529-05-06 16:19 G	25289919.04	25289919.18	25289919.32	0.0089	0.0013
Mercury	64529-08-02 18:00 G	25290007.11	25290007.25	25290007.39	0.0089	0.0005
Mercury	64529-10-29 19:41 G	25290095.18	25290095.32	25290095.46	0.0089	0.0004
Venus	64529-10-30 10:05 G	25290095.72	25290095.92	25290096.13	0.0089	0.0034



Mercury	64530-01-25 21:07 G	25290183.25	25290183.38	25290183.52	0.0089	0.0012
Mercury	64530-04-23 22:48 G	25290271.32	25290271.45	25290271.59	0.0089	0.0020
Venus	64530-06-12 23:31 G	25290321.27	25290321.48	25290321.69	0.0089	0.0028
Mercury	64530-07-21 00:15 G	25290359.39	25290359.51	25290359.65	0.0089	0.0028
Mercury	64530-10-17 01:55 G	25290447.46	25290447.58	25290447.71	0.0089	0.0036
Mercury	64531-01-13 03:22 G	25290535.53	25290535.64	25290535.77	0.0089	0.0044
Venus	64531-01-24 12:43 G	25290546.82	25290547.03	25290547.25	0.0089	0.0023
Mercury	64531-04-11 04:48 G	25290623.60	25290623.70	25290623.83	0.0089	0.0053
Moon	64531-06-10 02:53 G	25290683.51	25290683.62	25290683.79	0.0089	0.0075
Earth	64531-06-10 02:53 G	25290683.53	25290683.62	25290683.78	0.0089	0.0079 *
Mercury	64531-07-08 06:29 G	25290711.68	25290711.77	25290711.88	0.0089	0.0060
Venus	64531-09-07 02:10 G	25290772.38	25290772.59	25290772.81	0.0089	0.0018
Mercury	64531-10-04 07:55 G	25290799.75	25290799.83	25290799.93	0.0089	0.0068
Mercury	64531-12-31 09:36 G	25290887.84	25290887.90	25290887.98	0.0089	0.0076
Mercury	64532-03-28 11:03 G	25290975.92	25290975.96	25290976.02	0.0089	0.0084
Venus	64532-04-19 15:36 G	25290997.94	25290998.15	25290998.37	0.0089	0.0013
Moon	64532-06-11 14:10 G	25291050.89	25291051.09	25291051.32	0.0089	0.0051
Earth	64532-06-11 14:53 G	25291050.92	25291051.12	25291051.35	0.0089	0.0048 *
Venus	64532-12-01 04:48 G	25291223.49	25291223.70	25291223.93	0.0089	0.0009
Earth	64533-06-14 02:39 G	25291418.37	25291418.61	25291418.87	0.0089	0.0018
Moon	64533-06-14 04:48 G	25291418.46	25291418.70	25291418.95	0.0089	0.0013 *
Venus	64533-07-14 18:15 G	25291449.04	25291449.26	25291449.48	0.0089	0.0003
Venus	64534-02-25 07:27 G	25291674.59	25291674.81	25291675.03	0.0089	0.0002
Moon	64534-06-16 11:17 G	25291785.71	25291785.97	25291786.23	0.0089	0.0009
Earth	64534-06-16 14:24 G	25291785.85	25291786.10	25291786.36	0.0089	0.0013 *
Venus	64534-10-08 20:39 G	25291900.15	25291900.36	25291900.59	0.0089	0.0008
Venus	64535-05-22 10:05 G	25292125.70	25292125.92	25292126.14	0.0089	0.0012
Earth	64535-06-19 01:41 G	25292153.36	25292153.57	25292153.81	0.0089	0.0044
Moon	64535-06-19 04:48 G	25292153.51	25292153.70	25292153.94	0.0089	0.0047 *
Venus	64536-01-02 23:17 G	25292351.26	25292351.47	25292351.69	0.0089	0.0017

Moon	64536-06-20 09:36 G	25292520.76	25292520.90	25292521.08	0.0089	0.0070
Earth	64536-06-20 13:27 G	25292520.93	25292521.06	25292521.22	0.0089	0.0074 *
Venus	64536-08-15 12:29 G	25292576.81	25292577.02	25292577.24	0.0089	0.0022
Venus	64537-03-29 01:41 G	25292802.37	25292802.57	25292802.79	0.0089	0.0028
Venus	64537-11-09 15:07 G	25293027.93	25293028.13	25293028.34	0.0089	0.0032
Venus	64538-06-23 04:19 G	25293253.49	25293253.68	25293253.89	0.0089	0.0037
Venus	64539-02-03 17:31 G	25293479.04	25293479.23	25293479.43	0.0089	0.0042
Venus	64539-09-17 06:43 G	25293704.61	25293704.78	25293704.98	0.0089	0.0047
Venus	64540-04-29 20:10 G	25293930.17	25293930.34	25293930.53	0.0089	0.0052
Venus	64540-12-11 09:22 G	25294155.74	25294155.89	25294156.08	0.0089	0.0057
Venus	64541-07-24 22:34 G	25294381.30	25294381.44	25294381.62	0.0089	0.0062
Venus	64542-03-07 11:46 G	25294606.87	25294606.99	25294607.16	0.0089	0.0067
Venus	64542-10-19 01:27 G	25294832.44	25294832.56	25294832.70	0.0089	0.0071
Venus	64543-06-01 14:39 G	25295058.01	25295058.11	25295058.24	0.0089	0.0076
Venus	64544-01-13 03:36 G	25295283.59	25295283.65	25295283.76	0.0089	0.0081
Venus	64544-08-25 16:48 G	25295509.17	25295509.20	25295509.28	0.0089	0.0086
Mars	64566-12-15 20:39 G	25303656.09	25303656.36	25303656.67	0.0088	0.0029
Venus	64605-10-13 23:31 G	25317837.44	25317837.48	25317837.54	0.0088	0.0085
Venus	64606-05-27 11:46 G	25318062.93	25318062.99	25318063.10	0.0088	0.0081
Venus	64607-01-08 00:58 G	25318288.44	25318288.54	25318288.65	0.0088	0.0076
Venus	64607-08-21 13:27 G	25318513.95	25318514.06	25318514.21	0.0088	0.0072
Venus	64608-04-03 02:24 G	25318739.47	25318739.60	25318739.75	0.0088	0.0067
Venus	64608-11-14 15:07 G	25318964.98	25318965.13	25318965.29	0.0088	0.0062
Venus	64609-06-28 03:36 G	25319190.50	25319190.65	25319190.83	0.0088	0.0058
Venus	64610-02-08 16:19 G	25319416.02	25319416.18	25319416.37	0.0088	0.0053
Venus	64610-09-22 05:17 G	25319641.54	25319641.72	25319641.91	0.0088	0.0048
Mercury	64610-11-05 15:51 G	25319686.11	25319686.16	25319686.23	0.0088	0.0082
Mercury	64611-02-01 18:29 G	25319774.19	25319774.27	25319774.38	0.0088	0.0073
Mercury	64611-04-30 21:22 G	25319862.28	25319862.39	25319862.52	0.0088	0.0063
Venus	64611-05-05 17:46 G	25319867.06	25319867.24	25319867.45	0.0088	0.0044

Mercury	64611-07-28 00:00 G	25319950.38	25319950.50	25319950.65	0.0088	0.0054
Mercury	64611-10-24 02:53 G	25320038.48	25320038.62	25320038.79	0.0088	0.0044
Venus	64611-12-17 06:29 G	25320092.58	25320092.77	25320092.98	0.0088	0.0039
Mercury	64612-01-20 06:00 G	25320126.59	25320126.75	25320126.91	0.0088	0.0034
Mercury	64612-04-17 08:39 G	25320214.70	25320214.86	25320215.04	0.0088	0.0025
Mercury	64612-07-14 11:31 G	25320302.81	25320302.98	25320303.16	0.0088	0.0015
Venus	64612-07-29 19:12 G	25320318.11	25320318.30	25320318.51	0.0088	0.0034
Mercury	64612-10-10 14:39 G	25320390.93	25320391.11	25320391.28	0.0088	0.0005
Mercury	64613-01-06 17:31 G	25320479.05	25320479.23	25320479.40	0.0088	0.0005
Venus	64613-03-12 07:55 G	25320543.63	25320543.83	25320544.05	0.0088	0.0029
Mercury	64613-04-04 20:10 G	25320567.17	25320567.34	25320567.52	0.0088	0.0015
Mercury	64613-07-01 23:03 G	25320655.30	25320655.46	25320655.64	0.0088	0.0025
Mercury	64613-09-28 01:55 G	25320743.42	25320743.58	25320743.75	0.0088	0.0035
Venus	64613-10-23 20:53 G	25320769.16	25320769.37	25320769.58	0.0088	0.0024
Mercury	64613-12-25 04:48 G	25320831.56	25320831.70	25320831.87	0.0088	0.0045
Mercury	64614-03-23 07:41 G	25320919.69	25320919.82	25320919.98	0.0088	0.0055
Venus	64614-06-06 09:22 G	25320994.69	25320994.89	25320995.11	0.0088	0.0020
Mercury	64614-06-19 10:34 G	25321007.84	25321007.94	25321008.08	0.0088	0.0065
Mercury	64614-09-15 13:27 G	25321095.99	25321096.06	25321096.18	0.0088	0.0076
Mercury	64614-12-12 16:34 G	25321184.16	25321184.19	25321184.25	0.0088	0.0085
Earth	64614-12-14 05:46 G	25321185.59	25321185.74	25321185.92	0.0088	0.0067
Moon	64614-12-14 07:27 G	25321185.69	25321185.81	25321185.98	0.0088	0.0072 *
Venus	64615-01-17 22:05 G	25321220.21	25321220.42	25321220.65	0.0088	0.0015
Venus	64615-08-31 11:03 G	25321445.74	25321445.96	25321446.18	0.0088	0.0010
Moon	64615-12-16 14:53 G	25321552.89	25321553.12	25321553.38	0.0088	0.0034
Earth	64615-12-16 17:17 G	25321553.01	25321553.22	25321553.48	0.0088	0.0038 *
Venus	64616-04-12 23:46 G	25321671.28	25321671.49	25321671.71	0.0088	0.0005
Venus	64616-11-24 12:43 G	25321896.81	25321897.03	25321897.25	0.0088	0.0001
Earth	64616-12-18 05:17 G	25321920.47	25321920.72	25321920.99	0.0088	0.0009
Moon	64616-12-18 08:53 G	25321920.62	25321920.87	25321921.13	0.0088	0.0013 *

Venus	64617-07-08 01:12 G	25322122.34	25322122.55	25322122.78	0.0088	0.0006
Moon	64617-12-20 13:27 G	25322287.83	25322288.06	25322288.32	0.0088	0.0027
Earth	64617-12-20 17:17 G	25322287.97	25322288.22	25322288.47	0.0088	0.0022 *
Venus	64618-02-18 13:55 G	25322347.87	25322348.08	25322348.31	0.0088	0.0010
Venus	64618-10-02 03:07 G	25322573.41	25322573.63	25322573.85	0.0088	0.0015
Earth	64618-12-23 04:34 G	25322655.49	25322655.69	25322655.91	0.0088	0.0051
Moon	64618-12-23 08:10 G	25322655.62	25322655.84	25322656.07	0.0088	0.0047 *
Venus	64619-05-15 15:51 G	25322798.95	25322799.16	25322799.38	0.0088	0.0020
Moon	64619-12-25 12:58 G	25323023.02	25323023.04	25323023.13	0.0088	0.0086
Earth	64619-12-25 16:34 G	25323023.09	25323023.19	25323023.30	0.0088	0.0081 *
Venus	64619-12-27 04:34 G	25323024.48	25323024.69	25323024.91	0.0088	0.0024
Venus	64620-08-08 17:17 G	25323250.02	25323250.22	25323250.43	0.0088	0.0029
Venus	64621-03-22 05:46 G	25323475.55	25323475.74	25323475.96	0.0088	0.0035
Venus	64621-11-02 18:43 G	25323701.10	25323701.28	25323701.49	0.0088	0.0039
Venus	64622-06-16 07:27 G	25323926.64	25323926.81	25323927.02	0.0088	0.0044
Venus	64623-01-27 20:24 G	25324152.17	25324152.35	25324152.54	0.0088	0.0049
Venus	64623-09-10 09:07 G	25324377.71	25324377.88	25324378.06	0.0088	0.0054
Venus	64624-04-22 21:36 G	25324603.26	25324603.40	25324603.59	0.0088	0.0059
Venus	64624-12-04 10:19 G	25324828.80	25324828.93	25324829.11	0.0088	0.0064
Venus	64625-07-17 23:17 G	25325054.34	25325054.47	25325054.62	0.0088	0.0068
Venus	64626-02-28 11:46 G	25325279.89	25325279.99	25325280.14	0.0088	0.0073
Venus	64626-10-12 01:12 G	25325505.45	25325505.55	25325505.66	0.0089	0.0077
Venus	64627-05-25 13:41 G	25325731.01	25325731.07	25325731.17	0.0089	0.0082
Venus	64628-01-06 02:53 G	25325956.57	25325956.62	25325956.67	0.0089	0.0086
Mars	64648-08-30 10:48 G	25333498.83	25333498.95	25333499.13	0.0089	0.0079
Mars	64650-07-26 18:58 G	25334194.14	25334194.29	25334194.49	0.0089	0.0076
Venus	64687-04-18 18:00 G	25347609.20	25347609.25	25347609.33	0.0090	0.0086
Venus	64687-11-30 07:27 G	25347834.73	25347834.81	25347834.91	0.0089	0.0081
Venus	64688-07-12 20:24 G	25348060.26	25348060.35	25348060.49	0.0089	0.0077
Venus	64689-02-23 09:51 G	25348285.80	25348285.91	25348286.06	0.0089	0.0072

Venus	64689-10-06 23:17 G	25348511.34	25348511.47	25348511.63	0.0089	0.0067
Venus	64690-05-20 12:43 G	25348736.88	25348737.03	25348737.20	0.0089	0.0062
Venus	64691-01-01 02:10 G	25348962.43	25348962.59	25348962.77	0.0089	0.0057
Venus	64691-08-14 15:36 G	25349187.97	25349188.15	25349188.33	0.0089	0.0052
Mercury	64691-12-02 00:58 G	25349297.50	25349297.54	25349297.61	0.0089	0.0082
Mercury	64692-02-28 02:53 G	25349385.55	25349385.62	25349385.71	0.0089	0.0074
Venus	64692-03-27 05:03 G	25349413.53	25349413.71	25349413.90	0.0089	0.0047
Mercury	64692-05-26 04:34 G	25349473.60	25349473.69	25349473.79	0.0089	0.0065
Mercury	64692-08-22 06:00 G	25349561.66	25349561.75	25349561.87	0.0089	0.0058
Venus	64692-11-07 18:29 G	25349639.08	25349639.27	25349639.47	0.0089	0.0042
Mercury	64692-11-18 07:55 G	25349649.71	25349649.83	25349649.95	0.0089	0.0049
Mercury	64693-02-14 09:36 G	25349737.78	25349737.90	25349738.03	0.0089	0.0040
Mercury	64693-05-13 11:03 G	25349825.84	25349825.96	25349826.10	0.0089	0.0033
Venus	64693-06-21 07:55 G	25349864.63	25349864.83	25349865.03	0.0089	0.0037
Mercury	64693-08-09 12:58 G	25349913.90	25349914.04	25349914.18	0.0089	0.0024
Mercury	64693-11-05 14:39 G	25350001.97	25350002.11	25350002.25	0.0089	0.0016
Mercury	64694-02-01 16:05 G	25350090.03	25350090.17	25350090.32	0.0089	0.0008
Venus	64694-02-01 21:07 G	25350090.18	25350090.38	25350090.59	0.0089	0.0032 *
Mercury	64694-04-30 17:46 G	25350178.10	25350178.24	25350178.38	0.0089	0.0002
Mercury	64694-07-27 19:27 G	25350266.17	25350266.31	25350266.45	0.0089	0.0009
Venus	64694-09-15 10:34 G	25350315.73	25350315.94	25350316.15	0.0089	0.0027
Mercury	64694-10-23 20:53 G	25350354.24	25350354.37	25350354.52	0.0089	0.0018
Mercury	64695-01-19 22:34 G	25350442.31	25350442.44	25350442.58	0.0089	0.0025
Mercury	64695-04-18 00:00 G	25350530.38	25350530.50	25350530.64	0.0089	0.0034
Venus	64695-04-29 00:00 G	25350541.29	25350541.50	25350541.72	0.0089	0.0022
Mercury	64695-07-15 01:41 G	25350618.45	25350618.57	25350618.70	0.0089	0.0041
Mercury	64695-10-11 03:07 G	25350706.53	25350706.63	25350706.76	0.0089	0.0050
Venus	64695-12-10 13:27 G	25350766.84	25350767.06	25350767.28	0.0089	0.0016
Mercury	64696-01-07 04:48 G	25350794.60	25350794.70	25350794.81	0.0089	0.0057
Mercury	64696-04-04 06:15 G	25350882.68	25350882.76	25350882.87	0.0089	0.0065

Earth	64696-06-12 01:12 G	25350951.39	25350951.55	25350951.77	0.0089	0.0062
Moon	64696-06-12 03:36 G	25350951.49	25350951.65	25350951.86	0.0089	0.0060 *
Mercury	64696-07-01 07:41 G	25350970.76	25350970.82	25350970.91	0.0089	0.0074
Venus	64696-07-23 02:39 G	25350992.40	25350992.61	25350992.84	0.0089	0.0012
Mercury	64696-09-27 09:22 G	25351058.84	25351058.89	25351058.96	0.0089	0.0081
Mercury	64696-12-24 10:48 G	25351146.95	25351146.95	25351146.98	0.0089	0.0089
Venus	64697-03-05 16:05 G	25351217.96	25351218.17	25351218.40	0.0089	0.0007
Moon	64697-06-14 10:19 G	25351318.69	25351318.93	25351319.17	0.0089	0.0033
Earth	64697-06-14 13:27 G	25351318.83	25351319.06	25351319.31	0.0089	0.0031 *
Venus	64697-10-17 05:31 G	25351443.51	25351443.73	25351443.95	0.0089	0.0001
Venus	64698-05-30 18:43 G	25351669.07	25351669.28	25351669.51	0.0089	0.0005
Earth	64698-06-17 01:12 G	25351686.30	25351686.55	25351686.81	0.0089	0.0001
Moon	64698-06-17 04:48 G	25351686.45	25351686.70	25351686.96	0.0089	0.0002 *
Venus	64699-01-11 08:10 G	25351894.62	25351894.84	25351895.06	0.0089	0.0009
Moon	64699-06-19 09:36 G	25352053.66	25352053.90	25352054.14	0.0089	0.0028
Earth	64699-06-19 12:43 G	25352053.80	25352054.03	25352054.28	0.0089	0.0030 *
Venus	64699-08-24 21:22 G	25352120.17	25352120.39	25352120.61	0.0089	0.0014
Venus	64700-04-07 10:34 G	25352345.73	25352345.94	25352346.17	0.0089	0.0020
Earth	64700-06-22 00:00 G	25352421.33	25352421.50	25352421.71	0.0089	0.0061
Moon	64700-06-22 03:07 G	25352421.47	25352421.63	25352421.84	0.0089	0.0064 *
Venus	64700-11-19 00:00 G	25352571.29	25352571.50	25352571.71	0.0089	0.0024
Moon	64701-06-24 10:05 G	25352788.91	25352788.92	25352788.97	0.0089	0.0088
Venus	64701-07-02 13:12 G	25352796.84	25352797.05	25352797.26	0.0089	0.0029
Venus	64702-02-13 02:24 G	25353022.40	25353022.60	25353022.81	0.0089	0.0034
Venus	64702-09-26 15:36 G	25353247.96	25353248.15	25353248.35	0.0089	0.0039
Venus	64703-05-10 05:03 G	25353473.52	25353473.71	25353473.91	0.0089	0.0044
Venus	64703-12-21 18:00 G	25353699.08	25353699.25	25353699.45	0.0089	0.0049
Venus	64704-08-03 07:12 G	25353924.64	25353924.80	25353924.99	0.0089	0.0054
Venus	64705-03-16 20:39 G	25354150.21	25354150.36	25354150.54	0.0089	0.0059
Venus	64705-10-28 09:51 G	25354375.77	25354375.91	25354376.08	0.0089	0.0064

Venus	64706-06-10 23:03 G	25354601.34	25354601.46	25354601.62	0.0089	0.0069
Venus	64707-01-22 12:43 G	25354826.91	25354827.03	25354827.16	0.0089	0.0073
Venus	64707-09-05 01:41 G	25355052.48	25355052.57	25355052.69	0.0089	0.0078
Venus	64708-04-17 14:53 G	25355278.07	25355278.12	25355278.22	0.0089	0.0083
Venus	64708-11-29 04:34 G	25355503.66	25355503.69	25355503.73	0.0089	0.0087
Mars	64730-08-01 23:31 G	25363419.20	25363419.48	25363419.79	0.0088	0.0026
Venus	64770-01-16 10:48 G	25377831.91	25377831.95	25377832.04	0.0088	0.0084
Venus	64770-08-30 00:00 G	25378057.42	25378057.50	25378057.61	0.0088	0.0079
Venus	64771-04-12 12:29 G	25378282.93	25378283.02	25378283.16	0.0088	0.0075
Venus	64771-11-24 01:12 G	25378508.44	25378508.55	25378508.70	0.0088	0.0070
Venus	64772-07-06 14:10 G	25378733.95	25378734.09	25378734.25	0.0088	0.0065
Venus	64773-02-17 02:39 G	25378959.47	25378959.61	25378959.79	0.0088	0.0061
Venus	64773-09-30 15:36 G	25379185.00	25379185.15	25379185.34	0.0088	0.0056
Venus	64774-05-14 04:34 G	25379410.52	25379410.69	25379410.88	0.0088	0.0051
Venus	64774-12-25 16:48 G	25379636.04	25379636.20	25379636.41	0.0088	0.0047
Mercury	64775-05-07 12:15 G	25379768.98	25379769.01	25379769.06	0.0088	0.0085
Mercury	64775-08-03 14:53 G	25379857.05	25379857.12	25379857.23	0.0088	0.0076
Venus	64775-08-08 05:46 G	25379861.56	25379861.74	25379861.95	0.0088	0.0042
Mercury	64775-10-30 17:46 G	25379945.14	25379945.24	25379945.37	0.0088	0.0066
Mercury	64776-01-26 20:53 G	25380033.23	25380033.37	25380033.50	0.0088	0.0056
Venus	64776-03-20 18:29 G	25380087.08	25380087.27	25380087.48	0.0088	0.0037
Mercury	64776-04-23 23:17 G	25380121.34	25380121.47	25380121.63	0.0088	0.0047
Mercury	64776-07-21 02:24 G	25380209.44	25380209.60	25380209.76	0.0088	0.0037
Mercury	64776-10-17 05:03 G	25380297.55	25380297.71	25380297.89	0.0088	0.0028
Venus	64776-11-01 07:12 G	25380312.61	25380312.80	25380313.02	0.0088	0.0032
Mercury	64777-01-13 07:55 G	25380385.66	25380385.83	25380386.01	0.0088	0.0018
Mercury	64777-04-11 11:03 G	25380473.78	25380473.96	25380474.13	0.0088	0.0008
Venus	64777-06-14 19:55 G	25380538.13	25380538.33	25380538.55	0.0088	0.0027
Mercury	64777-07-08 13:41 G	25380561.90	25380562.07	25380562.25	0.0088	0.0003
Mercury	64777-10-04 16:34 G	25380650.02	25380650.19	25380650.37	0.0088	0.0012

Mercury	64777-12-31 19:27 G	25380738.14	25380738.31	25380738.49	0.0088	0.0022
Venus	64778-01-26 08:53 G	25380763.65	25380763.87	25380764.08	0.0088	0.0022
Mercury	64778-03-29 22:19 G	25380826.27	25380826.43	25380826.60	0.0088	0.0031
Mercury	64778-06-26 01:12 G	25380914.40	25380914.55	25380914.72	0.0088	0.0041
Venus	64778-09-08 21:36 G	25380989.18	25380989.40	25380989.62	0.0088	0.0018
Mercury	64778-09-22 04:05 G	25381002.53	25381002.67	25381002.82	0.0088	0.0051
Moon	64778-12-14 12:58 G	25381085.97	25381086.04	25381086.16	0.0088	0.0082
Earth	64778-12-14 16:19 G	25381086.10	25381086.18	25381086.31	0.0088	0.0080 *
Mercury	64778-12-19 06:58 G	25381090.67	25381090.79	25381090.93	0.0088	0.0061
Mercury	64779-03-17 09:51 G	25381178.82	25381178.91	25381179.03	0.0088	0.0072
Venus	64779-04-22 10:05 G	25381214.71	25381214.92	25381215.15	0.0088	0.0013
Mercury	64779-06-13 12:58 G	25381266.98	25381267.04	25381267.11	0.0088	0.0081
Venus	64779-12-03 22:48 G	25381440.24	25381440.45	25381440.68	0.0088	0.0008
Earth	64779-12-17 04:19 G	25381453.47	25381453.68	25381453.90	0.0088	0.0051
Moon	64779-12-17 07:12 G	25381453.61	25381453.80	25381454.03	0.0088	0.0050 *
Venus	64780-07-16 11:31 G	25381665.76	25381665.98	25381666.20	0.0088	0.0003
Moon	64780-12-18 12:00 G	25381820.77	25381821.00	25381821.27	0.0088	0.0023
Earth	64780-12-18 15:51 G	25381820.92	25381821.16	25381821.42	0.0088	0.0021 *
Venus	64781-02-27 00:15 G	25381891.29	25381891.51	25381891.73	0.0088	0.0002
Venus	64781-10-10 13:12 G	25382116.83	25382117.05	25382117.27	0.0088	0.0007
Earth	64781-12-21 03:36 G	25382188.39	25382188.65	25382188.90	0.0088	0.0009
Moon	64781-12-21 06:29 G	25382188.52	25382188.77	25382189.04	0.0088	0.0010 *
Venus	64782-05-24 01:55 G	25382342.36	25382342.58	25382342.80	0.0088	0.0012
Moon	64782-12-23 12:15 G	25382555.80	25382556.01	25382556.26	0.0088	0.0038
Earth	64782-12-23 14:53 G	25382555.90	25382556.12	25382556.37	0.0088	0.0038 *
Venus	64783-01-04 14:39 G	25382567.90	25382568.11	25382568.33	0.0088	0.0017
Venus	64783-08-18 03:22 G	25382793.43	25382793.64	25382793.86	0.0088	0.0022
Earth	64783-12-26 02:39 G	25382923.46	25382923.61	25382923.79	0.0088	0.0068
Moon	64783-12-26 04:34 G	25382923.52	25382923.69	25382923.86	0.0088	0.0068 *
Venus	64784-03-30 16:05 G	25383018.97	25383019.17	25383019.39	0.0088	0.0027



Venus	64784-11-11 04:48 G	25383244.51	25383244.70	25383244.92	0.0088	0.0032
Venus	64785-06-24 17:31 G	25383470.04	25383470.23	25383470.45	0.0088	0.0037
Venus	64786-02-05 06:15 G	25383695.58	25383695.76	25383695.97	0.0088	0.0042
Venus	64786-09-18 18:58 G	25383921.13	25383921.29	25383921.50	0.0088	0.0047
Venus	64787-05-02 08:10 G	25384146.67	25384146.84	25384147.03	0.0088	0.0051
Venus	64787-12-13 20:39 G	25384372.21	25384372.36	25384372.55	0.0088	0.0056
Venus	64788-07-26 09:22 G	25384597.75	25384597.89	25384598.07	0.0088	0.0061
Venus	64789-03-08 22:34 G	25384823.29	25384823.44	25384823.59	0.0088	0.0065
Venus	64789-10-20 11:03 G	25385048.84	25385048.96	25385049.11	0.0088	0.0070
Venus	64790-06-02 23:46 G	25385274.39	25385274.49	25385274.63	0.0088	0.0075
Venus	64791-01-14 12:43 G	25385499.94	25385500.03	25385500.14	0.0089	0.0079
Venus	64791-08-28 01:12 G	25385725.50	25385725.55	25385725.64	0.0089	0.0084
Venus	64792-04-09 14:10 G	25385951.08	25385951.09	25385951.13	0.0089	0.0088
Jupiter	64797-02-13 00:43 G	25387721.29	25387721.53	25387721.86	0.0089	0.0076
Mars	64814-03-11 04:05 G	25393956.36	25393956.67	25393956.99	0.0089	0.0015
Venus	64850-12-08 15:51 G	25407378.15	25407378.16	25407378.21	0.0090	0.0089
Venus	64851-07-22 05:17 G	25407603.66	25407603.72	25407603.81	0.0090	0.0084
Venus	64852-03-03 18:29 G	25407829.20	25407829.27	25407829.40	0.0090	0.0080
Venus	64852-10-15 07:55 G	25408054.73	25408054.83	25408054.97	0.0089	0.0075
Venus	64853-05-28 21:22 G	25408280.27	25408280.39	25408280.54	0.0089	0.0070
Venus	64854-01-09 10:34 G	25408505.81	25408505.94	25408506.11	0.0089	0.0065
Venus	64854-08-23 00:00 G	25408731.35	25408731.50	25408731.67	0.0089	0.0060
Venus	64855-04-05 13:41 G	25408956.90	25408957.07	25408957.24	0.0089	0.0055
Venus	64855-11-17 02:53 G	25409182.44	25409182.62	25409182.81	0.0089	0.0050
Mercury	64856-06-01 23:03 G	25409380.44	25409380.46	25409380.52	0.0089	0.0086
Venus	64856-06-29 15:51 G	25409407.99	25409408.16	25409408.37	0.0089	0.0045
Mercury	64856-08-29 00:58 G	25409468.48	25409468.54	25409468.62	0.0089	0.0077
Mercury	64856-11-25 02:39 G	25409556.53	25409556.61	25409556.71	0.0089	0.0068
Venus	64857-02-10 05:03 G	25409633.54	25409633.71	25409633.93	0.0089	0.0041
Mercury	64857-02-21 04:05 G	25409644.58	25409644.67	25409644.79	0.0089	0.0061

Mercury	64857-05-20 06:00 G	25409732.64	25409732.75	25409732.87	0.0089	0.0052
Mercury	64857-08-16 07:41 G	25409820.70	25409820.82	25409820.95	0.0089	0.0043
Venus	64857-09-23 18:29 G	25409859.09	25409859.27	25409859.49	0.0089	0.0036
Mercury	64857-11-12 09:22 G	25409908.76	25409908.89	25409909.02	0.0089	0.0035
Mercury	64858-02-08 10:48 G	25409996.83	25409996.95	25409997.10	0.0089	0.0028
Venus	64858-05-07 08:24 G	25410084.64	25410084.85	25410085.05	0.0089	0.0030
Mercury	64858-05-07 12:43 G	25410084.89	25410085.03	25410085.17	0.0089	0.0019 *
Mercury	64858-08-03 14:24 G	25410172.96	25410173.10	25410173.24	0.0089	0.0010
Mercury	64858-10-30 16:05 G	25410261.02	25410261.17	25410261.31	0.0089	0.0003
Venus	64858-12-18 21:36 G	25410310.19	25410310.40	25410310.61	0.0089	0.0025
Mercury	64859-01-26 17:31 G	25410349.09	25410349.23	25410349.37	0.0089	0.0006
Mercury	64859-04-24 19:12 G	25410437.16	25410437.30	25410437.44	0.0089	0.0014
Mercury	64859-07-21 20:39 G	25410525.23	25410525.36	25410525.50	0.0089	0.0022
Venus	64859-08-01 11:03 G	25410535.74	25410535.96	25410536.17	0.0089	0.0020
Mercury	64859-10-17 22:19 G	25410613.30	25410613.43	25410613.57	0.0089	0.0030
Mercury	64860-01-13 23:46 G	25410701.37	25410701.49	25410701.63	0.0089	0.0039
Venus	64860-03-14 00:29 G	25410761.30	25410761.52	25410761.74	0.0089	0.0015
Mercury	64860-04-11 01:27 G	25410789.45	25410789.56	25410789.68	0.0089	0.0046
Moon	64860-06-12 08:39 G	25410851.71	25410851.86	25410852.03	0.0089	0.0070
Earth	64860-06-12 11:46 G	25410851.87	25410851.99	25410852.15	0.0089	0.0075 *
Mercury	64860-07-08 02:53 G	25410877.52	25410877.62	25410877.74	0.0089	0.0055
Mercury	64860-10-04 04:34 G	25410965.60	25410965.69	25410965.79	0.0089	0.0062
Venus	64860-10-25 13:41 G	25410986.86	25410987.07	25410987.30	0.0089	0.0010
Mercury	64860-12-31 06:00 G	25411053.68	25411053.75	25411053.85	0.0089	0.0070
Mercury	64861-03-29 07:27 G	25411141.76	25411141.81	25411141.89	0.0089	0.0079
Venus	64861-06-08 03:07 G	25411212.41	25411212.63	25411212.85	0.0089	0.0004
Earth	64861-06-14 23:31 G	25411219.28	25411219.48	25411219.72	0.0089	0.0044
Moon	64861-06-15 03:22 G	25411219.44	25411219.64	25411219.86	0.0089	0.0049 *
Mercury	64861-06-25 09:07 G	25411229.86	25411229.88	25411229.92	0.0089	0.0086
Venus	64862-01-19 16:34 G	25411437.97	25411438.19	25411438.41	0.0089	0.0002

Moon	64862-06-17 08:24 G	25411586.61	25411586.85	25411587.11	0.0089	0.0009
Earth	64862-06-17 11:31 G	25411586.74	25411586.98	25411587.25	0.0089	0.0014 *
Venus	64862-09-02 05:46 G	25411663.52	25411663.74	25411663.96	0.0089	0.0006
Venus	64863-04-15 19:12 G	25411889.08	25411889.30	25411889.52	0.0089	0.0011
Earth	64863-06-19 23:17 G	25411954.22	25411954.47	25411954.72	0.0089	0.0017
Moon	64863-06-20 01:55 G	25411954.32	25411954.58	25411954.84	0.0089	0.0013 *
Venus	64863-11-27 08:24 G	25412114.64	25412114.85	25412115.08	0.0089	0.0016
Moon	64864-06-21 08:53 G	25412321.68	25412321.87	25412322.09	0.0089	0.0051
Earth	64864-06-21 10:34 G	25412321.75	25412321.94	25412322.18	0.0089	0.0047 *
Venus	64864-07-09 21:36 G	25412340.20	25412340.40	25412340.62	0.0089	0.0021
Venus	64865-02-20 11:03 G	25412565.75	25412565.96	25412566.17	0.0089	0.0026
Moon	64865-06-23 22:34 G	25412689.31	25412689.44	25412689.61	0.0089	0.0073
Earth	64865-06-23 22:05 G	25412689.32	25412689.42	25412689.58	0.0089	0.0078 *
Venus	64865-10-04 00:15 G	25412791.31	25412791.51	25412791.72	0.0089	0.0031
Venus	64866-05-17 13:41 G	25413016.87	25413017.07	25413017.28	0.0089	0.0036
Venus	64866-12-29 02:53 G	25413242.43	25413242.62	25413242.82	0.0089	0.0041
Venus	64867-08-11 16:05 G	25413467.99	25413468.17	25413468.37	0.0089	0.0046
Venus	64868-03-24 05:17 G	25413693.55	25413693.72	25413693.91	0.0089	0.0051
Venus	64868-11-04 18:29 G	25413919.11	25413919.27	25413919.46	0.0089	0.0056
Venus	64869-06-18 07:41 G	25414144.68	25414144.82	25414145.00	0.0089	0.0061
Venus	64870-01-29 20:39 G	25414370.24	25414370.36	25414370.53	0.0089	0.0066
Venus	64870-09-12 10:34 G	25414595.81	25414595.94	25414596.07	0.0089	0.0070
Venus	64871-04-25 23:46 G	25414821.38	25414821.49	25414821.61	0.0089	0.0075
Venus	64871-12-07 12:43 G	25415046.96	25415047.03	25415047.15	0.0089	0.0080
Venus	64872-07-20 01:55 G	25415272.54	25415272.58	25415272.67	0.0089	0.0085
Mars	64894-03-17 00:00 G	25423182.42	25423182.50	25423182.64	0.0088	0.0082
Mars	64896-02-09 10:05 G	25423876.71	25423876.92	25423877.16	0.0088	0.0059
Venus	64933-09-07 10:19 G	25437600.90	25437600.93	25437600.97	0.0088	0.0086
Venus	64934-04-20 22:48 G	25437826.39	25437826.45	25437826.54	0.0088	0.0082
Venus	64934-12-02 11:46 G	25438051.89	25438051.99	25438052.10	0.0088	0.0077

Venus	64935-07-16 00:00 G	25438277.40	25438277.50	25438277.64	0.0088	0.0073
Venus	64936-02-26 12:58 G	25438502.91	25438503.04	25438503.19	0.0088	0.0068
Venus	64936-10-09 01:27 G	25438728.44	25438728.56	25438728.74	0.0088	0.0064
Venus	64937-05-22 14:24 G	25438953.96	25438954.10	25438954.28	0.0088	0.0059
Venus	64938-01-03 03:22 G	25439179.48	25439179.64	25439179.82	0.0088	0.0054
Venus	64938-08-16 16:19 G	25439405.00	25439405.18	25439405.36	0.0088	0.0049
Venus	64939-03-30 04:48 G	25439630.52	25439630.70	25439630.90	0.0088	0.0045
Venus	64939-11-10 17:31 G	25439856.05	25439856.23	25439856.44	0.0088	0.0040
Mercury	64940-02-02 11:17 G	25439939.91	25439939.97	25439940.06	0.0088	0.0079
Mercury	64940-04-30 14:10 G	25440028.00	25440028.09	25440028.21	0.0088	0.0069
Venus	64940-06-23 06:15 G	25440081.57	25440081.76	25440081.97	0.0088	0.0035
Mercury	64940-07-27 16:48 G	25440116.09	25440116.20	25440116.35	0.0088	0.0060
Mercury	64940-10-23 19:41 G	25440204.19	25440204.32	25440204.48	0.0088	0.0050
Mercury	64941-01-19 22:48 G	25440292.29	25440292.45	25440292.61	0.0088	0.0040
Venus	64941-02-03 19:12 G	25440307.10	25440307.30	25440307.51	0.0088	0.0030
Mercury	64941-04-18 01:27 G	25440380.40	25440380.56	25440380.73	0.0088	0.0031
Mercury	64941-07-15 04:19 G	25440468.51	25440468.68	25440468.86	0.0088	0.0021
Venus	64941-09-17 07:55 G	25440532.63	25440532.83	25440533.05	0.0088	0.0026
Mercury	64941-10-11 07:12 G	25440556.63	25440556.80	25440556.98	0.0088	0.0011
Mercury	64942-01-07 10:05 G	25440644.74	25440644.92	25440645.10	0.0088	0.0002
Mercury	64942-04-05 12:58 G	25440732.86	25440733.04	25440733.22	0.0088	0.0008
Venus	64942-04-30 20:53 G	25440758.15	25440758.37	25440758.58	0.0088	0.0021
Mercury	64942-07-02 15:51 G	25440820.99	25440821.16	25440821.34	0.0088	0.0018
Mercury	64942-09-28 18:43 G	25440909.11	25440909.28	25440909.45	0.0088	0.0028
Venus	64942-12-12 09:22 G	25440983.68	25440983.89	25440984.11	0.0088	0.0016
Moon	64942-12-15 07:12 G	25440986.80	25440986.80	25440986.80	0.0088	0.0088
Mercury	64942-12-25 21:22 G	25440997.24	25440997.39	25440997.56	0.0088	0.0038
Mercury	64943-03-24 00:15 G	25441085.37	25441085.51	25441085.67	0.0088	0.0048
Mercury	64943-06-20 03:07 G	25441173.51	25441173.63	25441173.78	0.0088	0.0058
Venus	64943-07-25 22:05 G	25441209.20	25441209.42	25441209.64	0.0088	0.0011

Mercury	64943-09-16 06:00 G	25441261.65	25441261.75	25441261.88	0.0088	0.0068
Mercury	64943-12-13 08:53 G	25441349.81	25441349.87	25441349.97	0.0088	0.0078
Moon	64943-12-17 11:46 G	25441353.83	25441353.99	25441354.16	0.0088	0.0068
Earth	64943-12-17 14:53 G	25441353.95	25441354.12	25441354.31	0.0088	0.0063 *
Venus	64944-03-07 10:48 G	25441434.73	25441434.95	25441435.17	0.0088	0.0006
Mercury	64944-03-10 12:15 G	25441438.01	25441438.01	25441438.02	0.0088	0.0088
Venus	64944-10-18 23:31 G	25441660.27	25441660.48	25441660.71	0.0088	0.0002
Earth	64944-12-19 02:10 G	25441721.37	25441721.59	25441721.85	0.0088	0.0035
Moon	64944-12-19 05:31 G	25441721.50	25441721.73	25441721.99	0.0088	0.0030 *
Venus	64945-06-01 12:15 G	25441885.80	25441886.01	25441886.24	0.0088	0.0004
Moon	64945-12-21 12:15 G	25442088.77	25442089.01	25442089.27	0.0088	0.0009
Earth	64945-12-21 14:24 G	25442088.84	25442089.10	25442089.36	0.0088	0.0005 *
Venus	64946-01-13 00:58 G	25442111.33	25442111.54	25442111.76	0.0088	0.0009
Venus	64946-08-26 13:41 G	25442336.86	25442337.07	25442337.29	0.0088	0.0014
Earth	64946-12-24 01:41 G	25442456.33	25442456.57	25442456.83	0.0088	0.0025
Moon	64946-12-24 02:39 G	25442456.36	25442456.61	25442456.87	0.0088	0.0029 *
Venus	64947-04-09 02:39 G	25442562.39	25442562.61	25442562.82	0.0088	0.0019
Venus	64947-11-20 15:22 G	25442787.93	25442788.14	25442788.35	0.0088	0.0024
Earth	64947-12-26 12:58 G	25442823.86	25442824.04	25442824.27	0.0088	0.0055
Moon	64947-12-26 13:12 G	25442823.86	25442824.05	25442824.27	0.0088	0.0051 *
Venus	64948-07-03 03:51 G	25443013.46	25443013.66	25443013.88	0.0088	0.0029
Earth	64948-12-28 00:43 G	25443191.48	25443191.53	25443191.63	0.0088	0.0084
Venus	64949-02-13 16:34 G	25443239.00	25443239.19	25443239.41	0.0088	0.0034
Venus	64949-09-27 05:31 G	25443464.54	25443464.73	25443464.94	0.0088	0.0038
Venus	64950-05-10 18:15 G	25443690.08	25443690.26	25443690.47	0.0088	0.0043
Venus	64950-12-22 06:58 G	25443915.62	25443915.79	25443915.99	0.0088	0.0048
Venus	64951-08-04 19:55 G	25444141.16	25444141.33	25444141.51	0.0088	0.0053
Venus	64952-03-17 08:39 G	25444366.71	25444366.86	25444367.04	0.0088	0.0058
Venus	64952-10-28 21:22 G	25444592.26	25444592.39	25444592.57	0.0088	0.0063
Venus	64953-06-11 10:34 G	25444817.80	25444817.94	25444818.09	0.0088	0.0067

Venus	64954-01-22 23:03 G	25445043.35	25445043.46	25445043.60	0.0088	0.0072
Venus	64954-09-05 11:31 G	25445268.90	25445268.98	25445269.12	0.0088	0.0077
Venus	64955-04-19 00:43 G	25445494.45	25445494.53	25445494.63	0.0088	0.0081
Venus	64955-11-30 13:12 G	25445720.02	25445720.05	25445720.13	0.0089	0.0086
Jupiter	64963-04-24 13:27 G	25448421.56	25448422.06	25448422.58	0.0089	0.0035
Mars	64977-10-24 13:12 G	25453718.79	25453719.05	25453719.34	0.0089	0.0046

# 66TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 66th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	65015-03-14 03:22 G		25467372.60	25467372.64	25467372.70	0.0089	0.0087	
Venus	65015-10-25 16:19 G		25467598.12	25467598.18	25467598.29	0.0089	0.0083	
Venus	65016-06-07 05:46 G		25467823.65	25467823.74	25467823.87	0.0089	0.0078	
Venus	65017-01-18 19:12 G		25468049.19	25468049.30	25468049.44	0.0089	0.0073	
Venus	65017-09-01 08:53 G		25468274.73	25468274.87	25468275.02	0.0089	0.0068	
Venus	65018-04-14 22:19 G		25468500.28	25468500.43	25468500.59	0.0089	0.0063	
Venus	65018-11-26 11:17 G		25468725.82	25468725.97	25468726.16	0.0089	0.0058	
Venus	65019-07-10 00:29 G		25468951.37	25468951.52	25468951.72	0.0089	0.0054	
Venus	65020-02-20 13:55 G		25469176.91	25469177.08	25469177.28	0.0089	0.0049	
Venus	65020-10-03 03:22 G		25469402.46	25469402.64	25469402.85	0.0089	0.0043	
Mercury	65020-12-02 21:22 G		25469463.38	25469463.39	25469463.42	0.0089	0.0088	
Mercury	65021-02-28 23:03 G		25469551.41	25469551.46	25469551.53	0.0089	0.0080	

Venus	65021-05-16 16:34 G	25469628.01	25469628.19	25469628.41	0.0089	0.0039
Mercury	65021-05-28 00:43 G	25469639.46	25469639.53	25469639.63	0.0089	0.0071
Mercury	65021-08-24 02:39 G	25469727.51	25469727.61	25469727.71	0.0089	0.0063
Mercury	65021-11-20 04:05 G	25469815.57	25469815.67	25469815.79	0.0089	0.0055
Venus	65021-12-28 06:00 G	25469853.56	25469853.75	25469853.97	0.0089	0.0033
Mercury	65022-02-16 05:46 G	25469903.63	25469903.74	25469903.87	0.0089	0.0046
Mercury	65022-05-15 07:41 G	25469991.69	25469991.82	25469991.95	0.0089	0.0038
Venus	65022-08-10 19:12 G	25470079.11	25470079.30	25470079.53	0.0089	0.0029
Mercury	65022-08-11 09:07 G	25470079.75	25470079.88	25470080.02	0.0089	0.0030
Mercury	65022-11-07 10:48 G	25470167.82	25470167.95	25470168.09	0.0089	0.0022
Mercury	65023-02-03 12:29 G	25470255.88	25470256.02	25470256.17	0.0089	0.0013
Venus	65023-03-24 08:39 G	25470304.66	25470304.86	25470305.09	0.0089	0.0024
Mercury	65023-05-02 14:10 G	25470343.95	25470344.09	25470344.23	0.0089	0.0005
Mercury	65023-07-29 15:51 G	25470432.02	25470432.16	25470432.30	0.0089	0.0003
Mercury	65023-10-25 17:31 G	25470520.09	25470520.23	25470520.37	0.0089	0.0012
Venus	65023-11-04 22:19 G	25470530.22	25470530.43	25470530.65	0.0089	0.0018
Mercury	65024-01-21 18:58 G	25470608.16	25470608.29	25470608.43	0.0089	0.0020
Mercury	65024-04-18 20:39 G	25470696.23	25470696.36	25470696.49	0.0089	0.0028
Earth	65024-06-13 22:34 G	25470752.41	25470752.44	25470752.51	0.0089	0.0088
Moon	65024-06-14 01:41 G	25470752.56	25470752.57	25470752.64	0.0089	0.0088
Venus	65024-06-17 11:31 G	25470755.77	25470755.98	25470756.20	0.0089	0.0013
Mercury	65024-07-15 22:19 G	25470784.30	25470784.43	25470784.56	0.0089	0.0036
Mercury	65024-10-11 23:46 G	25470872.37	25470872.49	25470872.61	0.0089	0.0044
Mercury	65025-01-08 01:27 G	25470960.44	25470960.56	25470960.67	0.0089	0.0052
Venus	65025-01-29 00:58 G	25470981.32	25470981.54	25470981.76	0.0089	0.0008
Mercury	65025-04-06 02:53 G	25471048.52	25471048.62	25471048.73	0.0089	0.0060
Moon	65025-06-16 06:58 G	25471119.62	25471119.79	25471120.01	0.0089	0.0057
Earth	65025-06-16 10:19 G	25471119.75	25471119.93	25471120.14	0.0089	0.0058 *
Mercury	65025-07-03 04:19 G	25471136.60	25471136.68	25471136.78	0.0089	0.0068
Venus	65025-09-11 14:10 G	25471206.88	25471207.09	25471207.32	0.0089	0.0003

Mercury	65025-09-29 06:00 G	25471224.68	25471224.75	25471224.83	0.0089	0.0075
Mercury	65025-12-26 07:27 G	25471312.77	25471312.81	25471312.87	0.0089	0.0083
Venus	65026-04-25 03:51 G	25471432.44	25471432.66	25471432.88	0.0089	0.0003
Earth	65026-06-18 22:05 G	25471487.19	25471487.42	25471487.67	0.0089	0.0027
Moon	65026-06-19 00:15 G	25471487.28	25471487.51	25471487.78	0.0089	0.0029 *
Venus	65026-12-06 17:03 G	25471657.99	25471658.21	25471658.43	0.0089	0.0008
Moon	65027-06-21 09:07 G	25471854.63	25471854.88	25471855.13	0.0089	0.0004
Earth	65027-06-21 10:05 G	25471854.67	25471854.92	25471855.18	0.0089	0.0003 *
Venus	65027-07-20 06:15 G	25471883.55	25471883.76	25471883.99	0.0089	0.0013
Venus	65028-03-01 19:41 G	25472109.11	25472109.32	25472109.54	0.0089	0.0018
Earth	65028-06-22 21:36 G	25472222.17	25472222.40	25472222.65	0.0089	0.0034
Moon	65028-06-22 21:51 G	25472222.18	25472222.41	25472222.67	0.0089	0.0032 *
Venus	65028-10-13 08:53 G	25472334.67	25472334.87	25472335.09	0.0089	0.0024
Venus	65029-05-26 22:19 G	25472560.23	25472560.43	25472560.65	0.0089	0.0028
Earth	65029-06-25 09:22 G	25472589.72	25472589.89	25472590.08	0.0089	0.0064
Moon	65029-06-25 10:19 G	25472589.79	25472589.93	25472590.12	0.0089	0.0066 *
Venus	65030-01-07 11:31 G	25472785.79	25472785.98	25472786.19	0.0089	0.0034
Venus	65030-08-21 00:58 G	25473011.34	25473011.54	25473011.74	0.0089	0.0038
Venus	65031-04-03 14:10 G	25473236.91	25473237.09	25473237.29	0.0089	0.0043
Venus	65031-11-15 03:22 G	25473462.47	25473462.64	25473462.84	0.0089	0.0048
Venus	65032-06-27 16:34 G	25473688.03	25473688.19	25473688.38	0.0089	0.0053
Venus	65033-02-08 05:46 G	25473913.59	25473913.74	25473913.92	0.0089	0.0058
Venus	65033-09-21 18:43 G	25474139.15	25474139.28	25474139.46	0.0089	0.0063
Venus	65034-05-05 08:10 G	25474364.72	25474364.84	25474365.00	0.0089	0.0068
Venus	65034-12-16 21:51 G	25474590.28	25474590.41	25474590.54	0.0089	0.0072
Venus	65035-07-30 10:34 G	25474815.85	25474815.94	25474816.07	0.0089	0.0077
Venus	65036-03-11 23:46 G	25475041.43	25475041.49	25475041.60	0.0089	0.0082
Venus	65036-10-23 13:27 G	25475267.01	25475267.06	25475267.11	0.0089	0.0086
Mars	65059-09-26 11:17 G	25483639.66	25483639.97	25483640.28	0.0088	0.0004
Venus	65097-12-10 21:51 G	25497595.38	25497595.41	25497595.49	0.0088	0.0085



Venus	65098-07-24 10:48 G	25497820.87	25497820.95	25497821.05	0.0088	0.0080
Venus	65099-03-06 23:03 G	25498046.38	25498046.46	25498046.60	0.0088	0.0076
Venus	65099-10-18 12:00 G	25498271.89	25498272.00	25498272.15	0.0088	0.0071
Venus	65100-06-01 01:12 G	25498497.40	25498497.55	25498497.69	0.0088	0.0066
Venus	65101-01-12 13:27 G	25498722.92	25498723.06	25498723.23	0.0088	0.0062
Venus	65101-08-26 02:24 G	25498948.44	25498948.60	25498948.78	0.0088	0.0057
Venus	65102-04-08 15:07 G	25499173.96	25499174.13	25499174.32	0.0088	0.0052
Venus	65102-11-20 03:36 G	25499399.48	25499399.65	25499399.85	0.0088	0.0048
Venus	65103-07-03 16:19 G	25499625.01	25499625.18	25499625.39	0.0088	0.0043
Venus	65104-02-14 05:17 G	25499850.53	25499850.72	25499850.93	0.0088	0.0038
Mercury	65104-08-04 07:41 G	25500022.78	25500022.82	25500022.90	0.0088	0.0082
Venus	65104-09-26 18:15 G	25500076.06	25500076.26	25500076.47	0.0088	0.0033
Mercury	65104-10-31 10:48 G	25500110.85	25500110.95	25500111.05	0.0088	0.0072
Mercury	65105-01-27 13:12 G	25500198.95	25500199.05	25500199.19	0.0088	0.0063
Mercury	65105-04-25 16:19 G	25500287.04	25500287.18	25500287.32	0.0088	0.0053
Venus	65105-05-10 06:58 G	25500301.59	25500301.79	25500302.01	0.0088	0.0028
Mercury	65105-07-22 18:58 G	25500375.15	25500375.29	25500375.45	0.0088	0.0044
Mercury	65105-10-18 21:51 G	25500463.25	25500463.41	25500463.58	0.0088	0.0034
Venus	65105-12-21 19:55 G	25500527.11	25500527.33	25500527.54	0.0088	0.0023
Mercury	65106-01-15 00:43 G	25500551.36	25500551.53	25500551.70	0.0088	0.0024
Mercury	65106-04-13 03:22 G	25500639.48	25500639.64	25500639.83	0.0088	0.0015
Mercury	65106-07-10 06:29 G	25500727.59	25500727.77	25500727.95	0.0088	0.0005
Venus	65106-08-04 08:10 G	25500752.64	25500752.84	25500753.07	0.0088	0.0019
Mercury	65106-10-06 09:22 G	25500815.71	25500815.89	25500816.06	0.0088	0.0005
Mercury	65107-01-02 12:00 G	25500903.83	25500904.00	25500904.18	0.0088	0.0015
Venus	65107-03-17 21:07 G	25500978.17	25500978.38	25500978.60	0.0088	0.0014
Mercury	65107-03-31 14:53 G	25500991.95	25500992.12	25500992.30	0.0088	0.0025
Mercury	65107-06-27 17:46 G	25501080.08	25501080.24	25501080.41	0.0088	0.0035
Mercury	65107-09-23 20:39 G	25501168.21	25501168.36	25501168.52	0.0088	0.0044
Venus	65107-10-29 09:51 G	25501203.70	25501203.91	25501204.14	0.0088	0.0009

Earth	65107-12-19 00:58 G	25501254.43	25501254.54	25501254.69	0.0088	0.0076
Moon	65107-12-19 03:22 G	25501254.55	25501254.64	25501254.79	0.0088	0.0079 *
Mercury	65107-12-20 23:31 G	25501256.35	25501256.48	25501256.63	0.0088	0.0054
Mercury	65108-03-18 02:24 G	25501344.49	25501344.60	25501344.73	0.0088	0.0064
Venus	65108-06-10 22:34 G	25501429.23	25501429.44	25501429.67	0.0088	0.0004
Mercury	65108-06-14 05:17 G	25501432.64	25501432.72	25501432.83	0.0088	0.0074
Mercury	65108-09-10 08:10 G	25501520.80	25501520.84	25501520.90	0.0088	0.0085
Moon	65108-12-20 11:03 G	25501621.75	25501621.96	25501622.19	0.0088	0.0045
Earth	65108-12-20 12:43 G	25501621.83	25501622.03	25501622.27	0.0088	0.0047 *
Venus	65109-01-22 11:17 G	25501654.75	25501654.97	25501655.19	0.0088	0.0002
Venus	65109-09-05 00:00 G	25501880.29	25501880.50	25501880.72	0.0088	0.0006
Earth	65109-12-23 00:29 G	25501989.27	25501989.52	25501989.78	0.0088	0.0018
Moon	65109-12-23 00:58 G	25501989.28	25501989.54	25501989.80	0.0088	0.0019 *
Venus	65110-04-18 12:43 G	25502105.82	25502106.03	25502106.25	0.0088	0.0011
Venus	65110-11-30 01:12 G	25502331.35	25502331.55	25502331.78	0.0088	0.0017
Earth	65110-12-25 12:15 G	25502356.76	25502357.01	25502357.27	0.0088	0.0012
Moon	65110-12-25 13:12 G	25502356.81	25502357.05	25502357.30	0.0088	0.0014 *
Venus	65111-07-13 14:10 G	25502556.88	25502557.09	25502557.31	0.0088	0.0021
Moon	65111-12-27 21:36 G	25502724.18	25502724.40	25502724.66	0.0088	0.0041
Earth	65111-12-27 23:46 G	25502724.27	25502724.49	25502724.73	0.0088	0.0042 *
Venus	65112-02-24 02:53 G	25502782.41	25502782.62	25502782.83	0.0088	0.0025
Venus	65112-10-06 15:36 G	25503007.95	25503008.15	25503008.36	0.0088	0.0030
Earth	65112-12-29 10:48 G	25503091.82	25503091.95	25503092.12	0.0088	0.0071
Moon	65112-12-29 13:55 G	25503091.96	25503092.08	25503092.24	0.0088	0.0073 *
Venus	65113-05-20 04:19 G	25503233.49	25503233.68	25503233.89	0.0088	0.0035
Venus	65113-12-31 16:48 G	25503459.02	25503459.20	25503459.41	0.0088	0.0041
Venus	65114-08-14 05:31 G	25503684.56	25503684.73	25503684.94	0.0088	0.0046
Venus	65115-03-27 18:43 G	25503910.10	25503910.28	25503910.46	0.0088	0.0050
Venus	65115-11-08 07:27 G	25504135.65	25504135.81	25504135.99	0.0088	0.0055
Venus	65116-06-20 20:10 G	25504361.19	25504361.34	25504361.52	0.0088	0.0060

Venus	65117-02-01 08:53 G	25504586.74	25504586.87	25504587.04	0.0088	0.0064
Venus	65117-09-14 22:05 G	25504812.29	25504812.42	25504812.56	0.0088	0.0069
Venus	65118-04-28 10:34 G	25505037.84	25505037.94	25505038.08	0.0088	0.0074
Venus	65118-12-09 23:17 G	25505263.39	25505263.47	25505263.59	0.0088	0.0079
Venus	65119-07-23 12:15 G	25505488.95	25505489.01	25505489.10	0.0088	0.0083
Venus	65120-03-05 00:58 G	25505714.53	25505714.54	25505714.59	0.0088	0.0088
Jupiter	65129-07-01 19:41 G	25509119.77	25509120.32	25509120.88	0.0089	0.0003
Mars	65143-05-06 05:31 G	25514176.46	25514176.73	25514177.01	0.0089	0.0047
Venus	65179-06-16 13:55 G	25527367.04	25527367.08	25527367.16	0.0090	0.0086
Venus	65180-01-28 03:22 G	25527592.57	25527592.64	25527592.75	0.0090	0.0081
Venus	65180-09-09 17:03 G	25527818.10	25527818.21	25527818.33	0.0089	0.0076
Venus	65181-04-23 06:43 G	25528043.65	25528043.78	25528043.91	0.0089	0.0071
Venus	65181-12-04 19:27 G	25528269.19	25528269.31	25528269.48	0.0089	0.0067
Venus	65182-07-18 08:53 G	25528494.73	25528494.87	25528495.05	0.0089	0.0062
Venus	65183-02-28 22:19 G	25528720.28	25528720.43	25528720.62	0.0089	0.0057
Venus	65183-10-12 11:46 G	25528945.83	25528945.99	25528946.19	0.0089	0.0052
Venus	65184-05-25 01:12 G	25529171.37	25529171.55	25529171.75	0.0089	0.0046
Venus	65185-01-05 14:24 G	25529396.92	25529397.10	25529397.31	0.0089	0.0042
Venus	65185-08-19 03:51 G	25529622.47	25529622.66	25529622.87	0.0089	0.0036
Mercury	65185-08-30 21:07 G	25529634.34	25529634.38	25529634.44	0.0089	0.0082
Mercury	65185-11-26 22:34 G	25529722.38	25529722.44	25529722.54	0.0089	0.0075
Mercury	65186-02-23 00:29 G	25529810.43	25529810.52	25529810.63	0.0089	0.0066
Venus	65186-04-01 17:17 G	25529848.02	25529848.22	25529848.43	0.0089	0.0031
Mercury	65186-05-22 02:10 G	25529898.49	25529898.59	25529898.71	0.0089	0.0058
Mercury	65186-08-18 03:51 G	25529986.55	25529986.66	25529986.79	0.0089	0.0049
Venus	65186-11-13 06:29 G	25530073.57	25530073.77	25530073.99	0.0089	0.0027
Mercury	65186-11-14 05:46 G	25530074.61	25530074.74	25530074.87	0.0089	0.0041
Mercury	65187-02-10 07:12 G	25530162.68	25530162.80	25530162.94	0.0089	0.0033
Mercury	65187-05-09 08:53 G	25530250.74	25530250.87	25530251.01	0.0089	0.0025
Venus	65187-06-26 19:41 G	25530299.12	25530299.32	25530299.55	0.0089	0.0022

Mercury	65187-08-05 10:34 G	25530338.81	25530338.94	25530339.09	0.0089	0.0016
Mercury	65187-11-01 12:15 G	25530426.87	25530427.01	25530427.16	0.0089	0.0008
Mercury	65188-01-28 13:55 G	25530514.94	25530515.08	25530515.22	0.0089	0.0001
Venus	65188-02-07 09:07 G	25530524.67	25530524.88	25530525.10	0.0089	0.0016
Mercury	65188-04-25 15:36 G	25530603.01	25530603.15	25530603.29	0.0089	0.0008
Mercury	65188-07-22 17:17 G	25530691.08	25530691.22	25530691.36	0.0089	0.0017
Venus	65188-09-19 22:34 G	25530750.22	25530750.44	25530750.66	0.0089	0.0011
Mercury	65188-10-18 18:43 G	25530779.15	25530779.28	25530779.42	0.0089	0.0025
Mercury	65189-01-14 20:24 G	25530867.22	25530867.35	25530867.48	0.0089	0.0033
Mercury	65189-04-12 22:05 G	25530955.29	25530955.42	25530955.54	0.0089	0.0041
Venus	65189-05-03 12:00 G	25530975.78	25530976.00	25530976.22	0.0089	0.0006
Earth	65189-06-16 20:53 G	25531020.22	25531020.37	25531020.53	0.0089	0.0071
Moon	65189-06-16 22:34 G	25531020.29	25531020.44	25531020.64	0.0089	0.0066 *
Mercury	65189-07-09 23:31 G	25531043.37	25531043.48	25531043.60	0.0089	0.0049
Mercury	65189-10-06 01:12 G	25531131.44	25531131.55	25531131.66	0.0089	0.0057
Venus	65189-12-15 01:12 G	25531201.34	25531201.55	25531201.78	0.0089	0.0002
Mercury	65190-01-02 02:39 G	25531219.52	25531219.61	25531219.71	0.0089	0.0065
Mercury	65190-03-31 04:05 G	25531307.60	25531307.67	25531307.76	0.0089	0.0073
Moon	65190-06-19 07:41 G	25531387.62	25531387.82	25531388.04	0.0089	0.0046
Earth	65190-06-19 08:24 G	25531387.63	25531387.85	25531388.09	0.0089	0.0041 *
Mercury	65190-06-27 05:46 G	25531395.69	25531395.74	25531395.80	0.0089	0.0080
Venus	65190-07-28 14:39 G	25531426.89	25531427.11	25531427.33	0.0089	0.0005
Mercury	65190-09-23 07:12 G	25531483.79	25531483.80	25531483.83	0.0089	0.0088
Venus	65191-03-11 04:05 G	25531652.45	25531652.67	25531652.89	0.0089	0.0010
Moon	65191-06-21 19:12 G	25531755.04	25531755.30	25531755.57	0.0089	0.0006
Earth	65191-06-21 20:10 G	25531755.09	25531755.34	25531755.60	0.0089	0.0010 *
Venus	65191-10-22 17:17 G	25531878.01	25531878.22	25531878.44	0.0089	0.0015
Venus	65192-06-04 06:29 G	25532103.57	25532103.77	25532104.00	0.0089	0.0020
Earth	65192-06-23 07:55 G	25532122.59	25532122.83	25532123.09	0.0089	0.0020
Moon	65192-06-23 09:07 G	25532122.65	25532122.88	25532123.14	0.0089	0.0017 *

Venus	65193-01-15 19:55 G	25532329.12	25532329.33	25532329.55	0.0089	0.0025
Moon	65193-06-25 16:34 G	25532490.01	25532490.19	25532490.42	0.0089	0.0055
Earth	65193-06-25 19:27 G	25532490.12	25532490.31	25532490.54	0.0089	0.0051 *
Venus	65193-08-29 09:07 G	25532554.68	25532554.88	25532555.10	0.0089	0.0030
Venus	65194-04-11 22:34 G	25532780.25	25532780.44	25532780.66	0.0089	0.0035
Earth	65194-06-28 07:12 G	25532857.71	25532857.80	25532857.92	0.0089	0.0080
Moon	65194-06-28 10:48 G	25532857.82	25532857.95	25532858.09	0.0089	0.0076 *
Venus	65194-11-23 12:00 G	25533005.81	25533006.00	25533006.21	0.0089	0.0040
Venus	65195-07-07 01:12 G	25533231.37	25533231.55	25533231.75	0.0089	0.0045
Venus	65196-02-17 14:24 G	25533456.93	25533457.10	25533457.30	0.0089	0.0050
Venus	65196-09-30 03:36 G	25533682.50	25533682.65	25533682.84	0.0089	0.0056
Venus	65197-05-13 17:03 G	25533908.07	25533908.21	25533908.39	0.0089	0.0060
Venus	65197-12-25 06:15 G	25534133.63	25534133.76	25534133.93	0.0089	0.0065
Venus	65198-08-07 19:27 G	25534359.19	25534359.31	25534359.47	0.0089	0.0070
Venus	65199-03-21 09:07 G	25534584.76	25534584.88	25534585.00	0.0089	0.0074
Venus	65199-11-01 22:05 G	25534810.34	25534810.42	25534810.53	0.0089	0.0079
Venus	65200-06-14 11:03 G	25535035.92	25535035.96	25535036.06	0.0089	0.0084
Venus	65201-01-26 00:43 G	25535261.52	25535261.53	25535261.56	0.0089	0.0088
Mars	65223-05-12 11:03 G	25543402.73	25543402.96	25543403.24	0.0088	0.0052
Venus	65261-08-01 20:53 G	25557364.37	25557364.37	25557364.41	0.0088	0.0088
Venus	65262-03-15 09:36 G	25557589.85	25557589.90	25557589.99	0.0088	0.0083
Venus	65262-10-26 22:05 G	25557815.35	25557815.42	25557815.54	0.0088	0.0079
Venus	65263-06-09 11:03 G	25558040.86	25558040.96	25558041.09	0.0088	0.0074
Venus	65264-01-21 00:00 G	25558266.37	25558266.50	25558266.64	0.0088	0.0069
Venus	65264-09-02 12:29 G	25558491.89	25558492.02	25558492.18	0.0088	0.0065
Venus	65265-04-16 01:12 G	25558717.41	25558717.55	25558717.73	0.0088	0.0060
Venus	65265-11-27 14:10 G	25558942.92	25558943.09	25558943.26	0.0088	0.0055
Venus	65266-07-11 02:24 G	25559168.44	25559168.60	25559168.80	0.0088	0.0051
Venus	65267-02-21 15:07 G	25559393.96	25559394.13	25559394.34	0.0088	0.0046
Venus	65267-10-05 04:19 G	25559619.49	25559619.68	25559619.88	0.0088	0.0041

Venus	65268-05-17 17:03 G	25559845.02	25559845.21	25559845.42	0.0088	0.0036
Venus	65268-12-29 06:00 G	25560070.54	25560070.75	25560070.95	0.0088	0.0031
Mercury	65269-02-02 04:05 G	25560105.65	25560105.67	25560105.73	0.0088	0.0085
Mercury	65269-05-01 07:12 G	25560193.72	25560193.80	25560193.89	0.0088	0.0075
Mercury	65269-07-28 09:51 G	25560281.80	25560281.91	25560282.03	0.0088	0.0066
Venus	65269-08-11 18:15 G	25560296.07	25560296.26	25560296.49	0.0088	0.0027
Mercury	65269-10-24 12:29 G	25560369.90	25560370.02	25560370.17	0.0088	0.0057
Mercury	65270-01-20 15:22 G	25560458.00	25560458.14	25560458.30	0.0088	0.0047
Venus	65270-03-25 07:12 G	25560521.60	25560521.80	25560522.02	0.0088	0.0022
Mercury	65270-04-18 18:15 G	25560546.10	25560546.26	25560546.42	0.0088	0.0037
Mercury	65270-07-15 20:53 G	25560634.21	25560634.37	25560634.55	0.0088	0.0028
Mercury	65270-10-11 23:46 G	25560722.32	25560722.49	25560722.67	0.0088	0.0018
Venus	65270-11-05 19:55 G	25560747.13	25560747.33	25560747.56	0.0088	0.0017
Mercury	65271-01-08 02:39 G	25560810.44	25560810.61	25560810.79	0.0088	0.0009
Mercury	65271-04-06 05:31 G	25560898.55	25560898.73	25560898.91	0.0088	0.0002
Venus	65271-06-19 08:53 G	25560972.66	25560972.87	25560973.09	0.0088	0.0012
Mercury	65271-07-03 08:24 G	25560986.67	25560986.85	25560987.03	0.0088	0.0011
Mercury	65271-09-29 11:17 G	25561074.80	25561074.97	25561075.14	0.0088	0.0021
Moon	65271-12-18 10:19 G	25561154.91	25561154.93	25561155.02	0.0088	0.0086
Mercury	65271-12-26 13:55 G	25561162.92	25561163.08	25561163.26	0.0088	0.0031
Venus	65272-01-30 21:36 G	25561198.18	25561198.40	25561198.62	0.0088	0.0007
Mercury	65272-03-23 16:48 G	25561251.05	25561251.20	25561251.37	0.0088	0.0041
Mercury	65272-06-19 19:41 G	25561339.18	25561339.32	25561339.48	0.0088	0.0051
Venus	65272-09-12 10:34 G	25561423.72	25561423.94	25561424.16	0.0088	0.0002
Mercury	65272-09-15 22:34 G	25561427.32	25561427.44	25561427.58	0.0088	0.0061
Mercury	65272-12-13 01:12 G	25561515.47	25561515.55	25561515.68	0.0088	0.0072
Earth	65272-12-19 23:17 G	25561522.29	25561522.47	25561522.67	0.0088	0.0060
Moon	65272-12-19 23:03 G	25561522.30	25561522.46	25561522.67	0.0088	0.0063 *
Mercury	65273-03-11 04:05 G	25561603.63	25561603.67	25561603.76	0.0088	0.0082
Venus	65273-04-25 23:17 G	25561649.25	25561649.47	25561649.69	0.0088	0.0003

Venus	65273-12-07 12:00 G	25561874.78	25561875.00	25561875.22	0.0088	0.0008
Earth	65273-12-22 11:03 G	25561889.73	25561889.96	25561890.21	0.0088	0.0030
Moon	65273-12-22 12:15 G	25561889.78	25561890.01	25561890.26	0.0088	0.0027 *
Venus	65274-07-21 00:29 G	25562100.31	25562100.52	25562100.74	0.0088	0.0013
Moon	65274-12-24 20:10 G	25562257.08	25562257.34	25562257.61	0.0088	0.0004
Earth	65274-12-24 23:03 G	25562257.20	25562257.46	25562257.72	0.0088	0.0001 *
Venus	65275-03-03 13:12 G	25562325.84	25562326.05	25562326.27	0.0088	0.0018
Venus	65275-10-15 02:10 G	25562551.38	25562551.59	25562551.80	0.0088	0.0023
Earth	65275-12-27 10:19 G	25562624.69	25562624.93	25562625.18	0.0088	0.0029
Moon	65275-12-27 12:58 G	25562624.82	25562625.04	25562625.29	0.0088	0.0033 *
Venus	65276-05-27 14:53 G	25562776.91	25562777.12	25562777.33	0.0088	0.0028
Moon	65276-12-28 18:15 G	25562992.06	25562992.26	25562992.47	0.0088	0.0054
Earth	65276-12-28 21:36 G	25562992.23	25562992.40	25562992.61	0.0088	0.0058 *
Venus	65277-01-08 03:22 G	25563002.45	25563002.64	25563002.85	0.0088	0.0033
Venus	65277-08-21 16:05 G	25563227.98	25563228.17	25563228.38	0.0088	0.0037
Earth	65277-12-31 09:07 G	25563359.87	25563359.88	25563359.94	0.0088	0.0088
Venus	65278-04-04 04:34 G	25563453.52	25563453.69	25563453.90	0.0088	0.0043
Venus	65278-11-15 17:17 G	25563679.06	25563679.22	25563679.43	0.0088	0.0048
Venus	65279-06-29 06:29 G	25563904.60	25563904.77	25563904.95	0.0088	0.0052
Venus	65280-02-09 18:58 G	25564130.14	25564130.29	25564130.47	0.0088	0.0057
Venus	65280-09-22 07:41 G	25564355.68	25564355.82	25564356.00	0.0088	0.0062
Venus	65281-05-05 20:24 G	25564581.23	25564581.35	25564581.52	0.0088	0.0067
Venus	65281-12-17 09:36 G	25564806.78	25564806.90	25564807.04	0.0088	0.0071
Venus	65282-07-30 22:05 G	25565032.33	25565032.42	25565032.55	0.0088	0.0076
Venus	65283-03-13 10:48 G	25565257.88	25565257.95	25565258.06	0.0088	0.0080
Venus	65283-10-25 00:00 G	25565483.45	25565483.50	25565483.57	0.0088	0.0085
Jupiter	65295-09-02 17:46 G	25569813.78	25569814.24	25569814.80	0.0089	0.0036
Mars	65306-12-19 15:51 G	25573938.85	25573939.16	25573939.48	0.0089	0.0015
Venus	65343-02-05 11:46 G	25587135.98	25587135.99	25587136.04	0.0090	0.0089
Venus	65343-09-19 01:27 G	25587361.49	25587361.56	25587361.64	0.0090	0.0084

Venus	65344-05-01 14:24 G	25587587.02	25587587.10	25587587.22	0.0090	0.0080
Venus	65344-12-13 03:51 G	25587812.56	25587812.66	25587812.80	0.0089	0.0075
Venus	65345-07-26 17:17 G	25588038.10	25588038.22	25588038.37	0.0089	0.0070
Venus	65346-03-09 06:43 G	25588263.65	25588263.78	25588263.95	0.0089	0.0065
Venus	65346-10-20 20:10 G	25588489.19	25588489.34	25588489.52	0.0089	0.0060
Venus	65347-06-03 09:36 G	25588714.74	25588714.90	25588715.08	0.0089	0.0055
Venus	65348-01-14 23:03 G	25588940.28	25588940.46	25588940.65	0.0089	0.0050
Venus	65348-08-27 12:15 G	25589165.83	25589166.01	25589166.21	0.0089	0.0045
Venus	65349-04-10 01:41 G	25589391.39	25589391.57	25589391.78	0.0089	0.0040
Venus	65349-11-21 15:07 G	25589616.94	25589617.13	25589617.34	0.0089	0.0035
Mercury	65350-03-01 19:12 G	25589717.27	25589717.30	25589717.35	0.0089	0.0085
Mercury	65350-05-28 21:07 G	25589805.31	25589805.38	25589805.45	0.0089	0.0077
Venus	65350-07-05 04:19 G	25589842.48	25589842.68	25589842.90	0.0089	0.0030
Mercury	65350-08-24 22:34 G	25589893.36	25589893.44	25589893.54	0.0089	0.0069
Mercury	65350-11-21 00:15 G	25589981.42	25589981.51	25589981.63	0.0089	0.0061
Venus	65351-02-15 17:46 G	25590068.04	25590068.24	25590068.46	0.0089	0.0024
Mercury	65351-02-17 02:10 G	25590069.48	25590069.59	25590069.71	0.0089	0.0052
Mercury	65351-05-16 03:51 G	25590157.54	25590157.66	25590157.79	0.0089	0.0044
Mercury	65351-08-12 05:31 G	25590245.60	25590245.73	25590245.86	0.0089	0.0035
Venus	65351-09-29 06:58 G	25590293.59	25590293.79	25590294.02	0.0089	0.0020
Mercury	65351-11-08 06:58 G	25590333.66	25590333.79	25590333.94	0.0089	0.0028
Mercury	65352-02-04 08:53 G	25590421.73	25590421.87	25590422.01	0.0089	0.0019
Mercury	65352-05-02 10:34 G	25590509.80	25590509.94	25590510.08	0.0089	0.0011
Venus	65352-05-11 20:24 G	25590519.14	25590519.35	25590519.58	0.0089	0.0014
Mercury	65352-07-29 12:15 G	25590597.86	25590598.01	25590598.15	0.0089	0.0004
Mercury	65352-10-25 13:41 G	25590685.93	25590686.07	25590686.22	0.0089	0.0006
Venus	65352-12-23 09:36 G	25590744.69	25590744.90	25590745.13	0.0089	0.0010
Mercury	65353-01-21 15:22 G	25590774.00	25590774.14	25590774.28	0.0089	0.0014
Mercury	65353-04-19 16:48 G	25590862.07	25590862.20	25590862.34	0.0089	0.0022
Moon	65353-06-17 06:43 G	25590920.73	25590920.78	25590920.89	0.0089	0.0085



Earth	65353-06-17 06:58 G	25590920.74	25590920.79	25590920.91	0.0089	0.0085	*
Mercury	65353-07-16 18:29 G	25590950.14	25590950.27	25590950.41	0.0089	0.0030	
Venus	65353-08-05 23:03 G	25590970.24	25590970.46	25590970.68	0.0089	0.0004	
Mercury	65353-10-12 19:55 G	25591038.21	25591038.33	25591038.47	0.0089	0.0038	
Mercury	65354-01-08 21:36 G	25591126.29	25591126.40	25591126.53	0.0089	0.0046	
Venus	65354-03-19 12:29 G	25591195.80	25591196.02	25591196.24	0.0089	0.0001	
Mercury	65354-04-06 23:03 G	25591214.36	25591214.46	25591214.58	0.0089	0.0054	
Moon	65354-06-19 17:46 G	25591288.05	25591288.24	25591288.47	0.0089	0.0054	
Earth	65354-06-19 18:43 G	25591288.10	25591288.28	25591288.50	0.0089	0.0054	*
Mercury	65354-07-04 00:43 G	25591302.44	25591302.53	25591302.64	0.0089	0.0062	
Mercury	65354-09-30 02:10 G	25591390.52	25591390.59	25591390.69	0.0089	0.0070	
Venus	65354-10-31 01:41 G	25591421.35	25591421.57	25591421.79	0.0089	0.0007	
Mercury	65354-12-27 04:05 G	25591478.60	25591478.67	25591478.74	0.0089	0.0078	
Mercury	65355-03-25 05:31 G	25591566.70	25591566.73	25591566.77	0.0089	0.0086	
Venus	65355-06-13 15:07 G	25591646.91	25591647.13	25591647.34	0.0089	0.0012	
Earth	65355-06-22 06:29 G	25591655.53	25591655.77	25591656.03	0.0089	0.0024	
Moon	65355-06-22 08:53 G	25591655.64	25591655.87	25591656.12	0.0089	0.0023	*
Venus	65356-01-25 04:05 G	25591872.46	25591872.67	25591872.89	0.0089	0.0017	
Moon	65356-06-23 15:22 G	25592022.88	25592023.14	25592023.40	0.0089	0.0006	
Earth	65356-06-23 18:15 G	25592023.01	25592023.26	25592023.52	0.0089	0.0006	*
Venus	65356-09-06 17:17 G	25592098.02	25592098.22	25592098.45	0.0089	0.0022	
Venus	65357-04-20 06:43 G	25592323.58	25592323.78	25592324.00	0.0089	0.0027	
Earth	65357-06-26 05:31 G	25592390.51	25592390.73	25592390.98	0.0089	0.0037	
Moon	65357-06-26 08:53 G	25592390.66	25592390.87	25592391.12	0.0089	0.0037	*
Venus	65357-12-01 19:55 G	25592549.14	25592549.33	25592549.55	0.0089	0.0033	
Moon	65358-06-28 13:41 G	25592757.92	25592758.07	25592758.26	0.0089	0.0066	
Earth	65358-06-28 17:31 G	25592758.07	25592758.23	25592758.40	0.0089	0.0066	*
Venus	65358-07-15 09:22 G	25592774.70	25592774.89	25592775.10	0.0089	0.0037	
Venus	65359-02-25 22:34 G	25593000.26	25593000.44	25593000.65	0.0089	0.0042	
Venus	65359-10-09 12:00 G	25593225.83	25593226.00	25593226.20	0.0089	0.0047	

Venus	65360-05-22 01:27 G	25593451.39	25593451.56	25593451.75	0.0089	0.0052
Venus	65361-01-02 14:39 G	25593676.96	25593677.11	25593677.29	0.0089	0.0057
Venus	65361-08-16 03:51 G	25593902.52	25593902.66	25593902.84	0.0089	0.0062
Venus	65362-03-29 17:03 G	25594128.09	25594128.21	25594128.38	0.0089	0.0067
Venus	65362-11-10 06:15 G	25594353.66	25594353.76	25594353.92	0.0089	0.0072
Venus	65363-06-23 19:55 G	25594579.23	25594579.33	25594579.45	0.0089	0.0076
Venus	65364-02-04 08:53 G	25594804.80	25594804.87	25594804.98	0.0089	0.0081
Venus	65364-09-16 21:51 G	25595030.38	25595030.41	25595030.50	0.0089	0.0086
Mars	65388-11-19 21:51 G	25603860.14	25603860.41	25603860.71	0.0088	0.0035
Venus	65425-11-05 08:24 G	25617358.83	25617358.85	25617358.91	0.0088	0.0086
Venus	65426-06-18 21:36 G	25617584.32	25617584.40	25617584.48	0.0088	0.0081
Venus	65427-01-30 09:51 G	25617809.82	25617809.91	25617810.03	0.0088	0.0077
Venus	65427-09-12 22:48 G	25618035.34	25618035.45	25618035.59	0.0088	0.0072
Venus	65428-04-25 11:17 G	25618260.85	25618260.97	25618261.13	0.0088	0.0068
Venus	65428-12-07 00:00 G	25618486.36	25618486.50	25618486.67	0.0088	0.0063
Venus	65429-07-20 12:58 G	25618711.88	25618712.04	25618712.20	0.0088	0.0058
Venus	65430-03-03 01:12 G	25618937.39	25618937.55	25618937.74	0.0088	0.0054
Venus	65430-10-14 14:10 G	25619162.92	25619163.09	25619163.28	0.0088	0.0049
Venus	65431-05-28 02:53 G	25619388.44	25619388.62	25619388.82	0.0088	0.0044
Venus	65432-01-08 15:36 G	25619613.96	25619614.15	25619614.35	0.0088	0.0039
Venus	65432-08-21 04:34 G	25619839.48	25619839.69	25619839.89	0.0088	0.0034
Venus	65433-04-03 16:48 G	25620065.01	25620065.20	25620065.42	0.0088	0.0030
Mercury	65433-11-01 03:22 G	25620276.57	25620276.64	25620276.72	0.0088	0.0079
Venus	65433-11-15 05:46 G	25620290.54	25620290.74	25620290.96	0.0088	0.0025
Mercury	65434-01-28 05:46 G	25620364.66	25620364.74	25620364.86	0.0088	0.0070
Mercury	65434-04-26 08:53 G	25620452.75	25620452.87	25620453.00	0.0088	0.0060
Venus	65434-06-28 18:29 G	25620516.06	25620516.27	25620516.49	0.0088	0.0020
Mercury	65434-07-23 11:31 G	25620540.85	25620540.98	25620541.13	0.0088	0.0051
Mercury	65434-10-19 14:24 G	25620628.95	25620629.10	25620629.26	0.0088	0.0041
Mercury	65435-01-15 17:03 G	25620717.06	25620717.21	25620717.38	0.0088	0.0032

Venus	65435-02-09 07:12 G	25620741.59	25620741.80	25620742.02	0.0088	0.0015
Mercury	65435-04-13 19:55 G	25620805.16	25620805.33	25620805.51	0.0088	0.0022
Mercury	65435-07-10 22:48 G	25620893.28	25620893.45	25620893.63	0.0088	0.0012
Venus	65435-09-22 20:10 G	25620967.13	25620967.34	25620967.56	0.0088	0.0010
Mercury	65435-10-07 01:41 G	25620981.39	25620981.57	25620981.75	0.0088	0.0003
Mercury	65436-01-03 04:34 G	25621069.51	25621069.69	25621069.86	0.0088	0.0007
Mercury	65436-03-31 07:12 G	25621157.63	25621157.80	25621157.98	0.0088	0.0017
Venus	65436-05-05 09:07 G	25621192.66	25621192.88	25621193.10	0.0088	0.0005
Mercury	65436-06-27 10:05 G	25621245.76	25621245.92	25621246.09	0.0088	0.0027
Mercury	65436-09-23 12:43 G	25621333.88	25621334.03	25621334.21	0.0088	0.0037
Venus	65436-12-16 21:36 G	25621418.19	25621418.40	25621418.63	0.0088	0.0002
Mercury	65436-12-20 15:36 G	25621422.01	25621422.15	25621422.32	0.0088	0.0047
Earth	65436-12-21 08:24 G	25621422.73	25621422.85	25621423.02	0.0088	0.0073
Moon	65436-12-21 10:05 G	25621422.82	25621422.92	25621423.08	0.0088	0.0076 *
Mercury	65437-03-18 18:43 G	25621510.15	25621510.28	25621510.42	0.0088	0.0057
Mercury	65437-06-14 21:36 G	25621598.29	25621598.40	25621598.52	0.0088	0.0066
Venus	65437-07-30 10:19 G	25621643.72	25621643.93	25621644.16	0.0088	0.0005
Mercury	65437-09-11 00:29 G	25621686.44	25621686.52	25621686.61	0.0088	0.0076
Mercury	65437-12-08 03:22 G	25621774.62	25621774.64	25621774.68	0.0088	0.0087
Moon	65437-12-23 18:00 G	25621790.02	25621790.25	25621790.49	0.0088	0.0040
Earth	65437-12-23 20:53 G	25621790.15	25621790.37	25621790.60	0.0088	0.0043 *
Venus	65438-03-12 23:03 G	25621869.25	25621869.46	25621869.69	0.0088	0.0010
Venus	65438-10-24 12:00 G	25622094.79	25622095.00	25622095.22	0.0088	0.0015
Earth	65438-12-26 08:24 G	25622157.60	25622157.85	25622158.11	0.0088	0.0014
Moon	65438-12-26 12:00 G	25622157.75	25622158.00	25622158.26	0.0088	0.0017 *
Venus	65439-06-07 00:29 G	25622320.32	25622320.52	25622320.75	0.0088	0.0020
Moon	65439-12-28 16:34 G	25622524.95	25622525.19	25622525.45	0.0088	0.0019
Earth	65439-12-28 20:10 G	25622525.09	25622525.34	25622525.60	0.0088	0.0016 *
Venus	65440-01-18 13:27 G	25622545.85	25622546.06	25622546.28	0.0088	0.0025
Venus	65440-08-31 02:10 G	25622771.39	25622771.59	25622771.80	0.0088	0.0029

Earth	65440-12-30 07:27 G	25622892.61	25622892.81	25622893.05	0.0088	0.0045
Moon	65440-12-30 11:17 G	25622892.75	25622892.97	25622893.21	0.0088	0.0043 *
Venus	65441-04-13 14:53 G	25622996.92	25622997.12	25622997.33	0.0088	0.0034
Venus	65441-11-25 03:22 G	25623222.46	25623222.64	25623222.85	0.0088	0.0040
Moon	65442-01-01 16:48 G	25623260.09	25623260.20	25623260.33	0.0088	0.0078
Earth	65442-01-01 18:58 G	25623260.18	25623260.29	25623260.45	0.0088	0.0075 *
Venus	65442-07-08 16:05 G	25623448.00	25623448.17	25623448.38	0.0088	0.0044
Venus	65443-02-19 04:48 G	25623673.53	25623673.70	25623673.90	0.0088	0.0049
Venus	65443-10-02 17:46 G	25623899.08	25623899.24	25623899.42	0.0088	0.0054
Venus	65444-05-15 06:29 G	25624124.62	25624124.77	25624124.95	0.0088	0.0059
Venus	65444-12-26 18:58 G	25624350.16	25624350.29	25624350.47	0.0088	0.0064
Venus	65445-08-09 07:41 G	25624575.70	25624575.82	25624575.98	0.0088	0.0068
Venus	65446-03-22 20:39 G	25624801.25	25624801.36	25624801.50	0.0088	0.0073
Venus	65446-11-03 09:22 G	25625026.81	25625026.89	25625027.02	0.0088	0.0078
Venus	65447-06-16 22:34 G	25625252.37	25625252.44	25625252.53	0.0088	0.0082
Venus	65448-01-28 11:03 G	25625477.94	25625477.96	25625478.03	0.0088	0.0087
Jupiter	65461-11-03 21:51 G	25630506.11	25630506.41	25630506.82	0.0089	0.0068
Mars	65470-08-04 02:24 G	25633701.47	25633701.60	25633701.80	0.0089	0.0076
Mars	65472-06-29 05:31 G	25634396.60	25634396.73	25634396.92	0.0089	0.0078
Venus	65507-05-11 22:19 G	25647130.41	25647130.43	25647130.51	0.0090	0.0088
Venus	65507-12-23 11:46 G	25647355.93	25647355.99	25647356.09	0.0090	0.0083
Venus	65508-08-05 01:12 G	25647581.46	25647581.55	25647581.67	0.0090	0.0078
Venus	65509-03-18 14:53 G	25647807.00	25647807.12	25647807.25	0.0090	0.0073
Venus	65509-10-30 04:19 G	25648032.54	25648032.68	25648032.82	0.0089	0.0068
Venus	65510-06-12 17:03 G	25648258.08	25648258.21	25648258.39	0.0089	0.0064
Venus	65511-01-24 06:29 G	25648483.62	25648483.77	25648483.96	0.0089	0.0059
Venus	65511-09-06 19:55 G	25648709.17	25648709.33	25648709.53	0.0089	0.0054
Venus	65512-04-19 09:22 G	25648934.73	25648934.89	25648935.10	0.0089	0.0049
Venus	65512-11-30 22:48 G	25649160.28	25649160.45	25649160.66	0.0089	0.0044
Venus	65513-07-14 12:15 G	25649385.83	25649386.01	25649386.22	0.0089	0.0038

Venus	65514-02-25 01:55 G	25649611.38	25649611.58	25649611.79	0.0089	0.0033
Mercury	65514-09-01 17:17 G	25649800.21	25649800.22	25649800.24	0.0089	0.0089
Venus	65514-10-08 15:22 G	25649836.93	25649837.14	25649837.35	0.0089	0.0028
Mercury	65514-11-28 18:43 G	25649888.23	25649888.28	25649888.36	0.0089	0.0081
Mercury	65515-02-24 20:39 G	25649976.28	25649976.36	25649976.45	0.0089	0.0072
Venus	65515-05-22 04:34 G	25650062.49	25650062.69	25650062.91	0.0089	0.0023
Mercury	65515-05-23 22:19 G	25650064.34	25650064.43	25650064.54	0.0089	0.0063
Mercury	65515-08-20 00:00 G	25650152.40	25650152.50	25650152.62	0.0089	0.0055
Mercury	65515-11-16 01:55 G	25650240.46	25650240.58	25650240.70	0.0089	0.0047
Venus	65516-01-02 18:00 G	25650288.04	25650288.25	25650288.47	0.0089	0.0017
Mercury	65516-02-12 03:22 G	25650328.52	25650328.64	25650328.78	0.0089	0.0039
Mercury	65516-05-10 05:03 G	25650416.58	25650416.71	25650416.85	0.0089	0.0031
Mercury	65516-08-06 06:43 G	25650504.65	25650504.78	25650504.93	0.0089	0.0022
Venus	65516-08-15 07:12 G	25650513.59	25650513.80	25650514.03	0.0089	0.0013
Mercury	65516-11-02 08:24 G	25650592.72	25650592.85	25650593.00	0.0089	0.0014
Mercury	65517-01-29 10:05 G	25650680.78	25650680.92	25650681.07	0.0089	0.0006
Venus	65517-03-28 20:39 G	25650739.15	25650739.36	25650739.59	0.0089	0.0008
Mercury	65517-04-27 11:46 G	25650768.85	25650768.99	25650769.14	0.0089	0.0003
Mercury	65517-07-24 13:27 G	25650856.92	25650857.06	25650857.20	0.0089	0.0011
Mercury	65517-10-20 14:53 G	25650944.99	25650945.12	25650945.27	0.0089	0.0019
Venus	65517-11-09 10:05 G	25650964.70	25650964.92	25650965.14	0.0089	0.0002
Mercury	65518-01-16 16:34 G	25651033.06	25651033.19	25651033.33	0.0089	0.0027
Mercury	65518-04-14 18:15 G	25651121.13	25651121.26	25651121.39	0.0089	0.0035
Earth	65518-06-21 05:03 G	25651188.56	25651188.71	25651188.89	0.0089	0.0068
Moon	65518-06-21 07:27 G	25651188.65	25651188.81	25651189.00	0.0089	0.0063 *
Venus	65518-06-22 23:17 G	25651190.25	25651190.47	25651190.69	0.0089	0.0003
Mercury	65518-07-11 19:41 G	25651209.21	25651209.32	25651209.45	0.0089	0.0043
Mercury	65518-10-07 21:22 G	25651297.28	25651297.39	25651297.51	0.0089	0.0051
Mercury	65519-01-03 22:48 G	25651385.36	25651385.45	25651385.57	0.0089	0.0059
Venus	65519-02-03 12:29 G	25651415.81	25651416.02	25651416.24	0.0089	0.0009

Mercury	65519-04-02 00:29 G	25651473.44	25651473.52	25651473.62	0.0089	0.0067
Moon	65519-06-23 13:12 G	25651555.84	25651556.05	25651556.29	0.0089	0.0042
Earth	65519-06-23 16:48 G	25651555.98	25651556.20	25651556.44	0.0089	0.0037 *
Mercury	65519-06-29 01:55 G	25651561.52	25651561.58	25651561.67	0.0089	0.0075
Venus	65519-09-17 01:55 G	25651641.36	25651641.58	25651641.80	0.0089	0.0013
Mercury	65519-09-25 03:51 G	25651649.61	25651649.66	25651649.71	0.0089	0.0083
Venus	65520-04-29 15:22 G	25651866.92	25651867.14	25651867.35	0.0089	0.0019
Earth	65520-06-25 04:19 G	25651923.43	25651923.68	25651923.94	0.0089	0.0007
Moon	65520-06-25 07:41 G	25651923.57	25651923.82	25651924.08	0.0089	0.0004 *
Venus	65520-12-11 04:34 G	25652092.48	25652092.69	25652092.90	0.0089	0.0024
Moon	65521-06-27 12:15 G	25652290.77	25652291.01	25652291.27	0.0089	0.0018
Earth	65521-06-27 15:51 G	25652290.92	25652291.16	25652291.42	0.0089	0.0023 *
Venus	65521-07-24 17:31 G	25652318.03	25652318.23	25652318.45	0.0089	0.0029
Venus	65522-03-07 06:43 G	25652543.59	25652543.78	25652544.00	0.0089	0.0034
Earth	65522-06-30 03:07 G	25652658.45	25652658.63	25652658.86	0.0089	0.0053
Moon	65522-06-30 05:46 G	25652658.57	25652658.74	25652658.97	0.0089	0.0058 *
Venus	65522-10-18 20:10 G	25652769.15	25652769.34	25652769.55	0.0089	0.0039
Venus	65523-06-01 09:22 G	25652994.72	25652994.89	25652995.10	0.0089	0.0045
Moon	65523-07-02 12:43 G	25653025.95	25653026.03	25653026.17	0.0089	0.0079
Earth	65523-07-02 14:39 G	25653026.05	25653026.11	25653026.23	0.0089	0.0083 *
Venus	65524-01-12 22:48 G	25653220.28	25653220.45	25653220.65	0.0089	0.0049
Venus	65524-08-25 12:00 G	25653445.84	25653446.00	25653446.19	0.0089	0.0054
Venus	65525-04-08 01:27 G	25653671.41	25653671.56	25653671.74	0.0089	0.0059
Venus	65525-11-19 14:39 G	25653896.98	25653897.11	25653897.29	0.0089	0.0064
Venus	65526-07-03 03:51 G	25654122.55	25654122.66	25654122.82	0.0089	0.0069
Venus	65527-02-13 17:31 G	25654348.12	25654348.23	25654348.36	0.0089	0.0073
Venus	65527-09-27 06:43 G	25654573.69	25654573.78	25654573.89	0.0089	0.0078
Venus	65528-05-09 19:55 G	25654799.27	25654799.33	25654799.43	0.0089	0.0083
Venus	65528-12-21 09:07 G	25655024.87	25655024.88	25655024.94	0.0089	0.0088
Mars	65552-07-06 20:24 G	25663623.06	25663623.35	25663623.66	0.0088	0.0022

Venus	65590-02-07 19:12 G	25677353.27	25677353.30	25677353.39	0.0088	0.0085
Venus	65590-09-21 08:24 G	25677578.78	25677578.85	25677578.96	0.0088	0.0080
Venus	65591-05-04 20:53 G	25677804.29	25677804.37	25677804.51	0.0088	0.0076
Venus	65591-12-16 09:51 G	25678029.80	25678029.91	25678030.06	0.0088	0.0071
Venus	65592-07-28 22:48 G	25678255.31	25678255.45	25678255.60	0.0088	0.0066
Venus	65593-03-11 11:03 G	25678480.83	25678480.96	25678481.14	0.0088	0.0062
Venus	65593-10-23 00:00 G	25678706.35	25678706.50	25678706.69	0.0088	0.0057
Venus	65594-06-05 12:43 G	25678931.87	25678932.03	25678932.22	0.0088	0.0052
Venus	65595-01-17 01:41 G	25679157.39	25679157.57	25679157.76	0.0088	0.0047
Venus	65595-08-30 14:24 G	25679382.91	25679383.10	25679383.30	0.0088	0.0042
Venus	65596-04-12 02:53 G	25679608.43	25679608.62	25679608.83	0.0088	0.0038
Venus	65596-11-23 15:36 G	25679833.96	25679834.15	25679834.36	0.0088	0.0033
Venus	65597-07-07 04:19 G	25680059.48	25680059.68	25680059.90	0.0088	0.0028
Venus	65598-02-17 17:03 G	25680285.00	25680285.21	25680285.43	0.0088	0.0023
Mercury	65598-05-02 23:17 G	25680359.44	25680359.47	25680359.55	0.0088	0.0083
Mercury	65598-07-30 02:24 G	25680447.51	25680447.60	25680447.70	0.0088	0.0073
Venus	65598-10-01 06:00 G	25680510.54	25680510.75	25680510.97	0.0088	0.0018
Mercury	65598-10-26 04:48 G	25680535.60	25680535.70	25680535.84	0.0088	0.0064
Mercury	65599-01-22 07:55 G	25680623.70	25680623.83	25680623.97	0.0088	0.0054
Mercury	65599-04-20 10:34 G	25680711.80	25680711.94	25680712.10	0.0088	0.0045
Venus	65599-05-14 18:43 G	25680736.06	25680736.28	25680736.50	0.0088	0.0013
Mercury	65599-07-17 13:27 G	25680799.90	25680800.06	25680800.22	0.0088	0.0035
Mercury	65599-10-13 16:05 G	25680888.01	25680888.17	25680888.34	0.0088	0.0026
Venus	65599-12-26 07:27 G	25680961.59	25680961.81	25680962.03	0.0088	0.0008
Mercury	65600-01-09 18:58 G	25680976.12	25680976.29	25680976.47	0.0088	0.0016
Mercury	65600-04-06 21:51 G	25681064.23	25681064.41	25681064.58	0.0088	0.0007
Mercury	65600-07-04 00:29 G	25681152.35	25681152.52	25681152.70	0.0088	0.0004
Venus	65600-08-07 20:10 G	25681187.12	25681187.34	25681187.56	0.0088	0.0003
Mercury	65600-09-30 03:22 G	25681240.47	25681240.64	25681240.82	0.0088	0.0013
Moon	65600-12-21 15:07 G	25681323.06	25681323.13	25681323.22	0.0088	0.0084

Earth	65600-12-21 18:00 G	25681323.22	25681323.25	25681323.32	0.0088	0.0086	*
Mercury	65600-12-27 06:00 G	25681328.59	25681328.75	25681328.93	0.0088	0.0023	
Venus	65601-03-21 08:53 G	25681412.65	25681412.87	25681413.09	0.0088	0.0002	
Mercury	65601-03-25 09:07 G	25681416.71	25681416.88	25681417.04	0.0088	0.0033	
Mercury	65601-06-21 12:00 G	25681504.84	25681505.00	25681505.15	0.0088	0.0042	
Mercury	65601-09-17 14:39 G	25681592.97	25681593.11	25681593.26	0.0088	0.0052	
Venus	65601-11-01 21:36 G	25681638.19	25681638.40	25681638.63	0.0088	0.0007	
Mercury	65601-12-14 17:31 G	25681681.11	25681681.23	25681681.36	0.0088	0.0062	
Earth	65601-12-24 05:31 G	25681690.56	25681690.73	25681690.95	0.0088	0.0057	
Moon	65601-12-24 09:22 G	25681690.72	25681690.89	25681691.09	0.0088	0.0060	*
Mercury	65602-03-12 20:24 G	25681769.26	25681769.35	25681769.46	0.0088	0.0072	
Mercury	65602-06-08 23:17 G	25681857.42	25681857.47	25681857.54	0.0088	0.0082	
Venus	65602-06-15 10:19 G	25681863.72	25681863.93	25681864.16	0.0088	0.0012	
Moon	65602-12-26 14:24 G	25682057.85	25682058.10	25682058.35	0.0088	0.0024	
Earth	65602-12-26 18:00 G	25682058.00	25682058.25	25682058.50	0.0088	0.0027	*
Venus	65603-01-26 23:17 G	25682089.25	25682089.47	25682089.68	0.0088	0.0016	
Venus	65603-09-09 12:00 G	25682314.79	25682315.00	25682315.21	0.0088	0.0021	
Earth	65603-12-29 05:46 G	25682425.48	25682425.74	25682426.00	0.0088	0.0002	
Moon	65603-12-29 08:39 G	25682425.60	25682425.86	25682426.13	0.0088	0.0002	*
Venus	65604-04-22 00:43 G	25682540.32	25682540.53	25682540.74	0.0088	0.0026	
Venus	65604-12-03 13:27 G	25682765.86	25682766.06	25682766.27	0.0088	0.0031	
Moon	65604-12-30 14:39 G	25682792.89	25682793.11	25682793.35	0.0088	0.0035	
Earth	65604-12-30 17:17 G	25682792.99	25682793.22	25682793.47	0.0088	0.0032	*
Venus	65605-07-17 01:55 G	25682991.39	25682991.58	25682991.79	0.0088	0.0037	
Earth	65606-01-02 04:34 G	25683160.53	25683160.69	25683160.90	0.0088	0.0061	
Moon	65606-01-02 05:46 G	25683160.56	25683160.74	25683160.96	0.0088	0.0058	*
Venus	65606-02-27 14:39 G	25683216.93	25683217.11	25683217.32	0.0088	0.0041	
Venus	65606-10-11 03:22 G	25683442.47	25683442.64	25683442.85	0.0088	0.0047	
Venus	65607-05-24 16:34 G	25683668.01	25683668.19	25683668.37	0.0088	0.0051	
Venus	65608-01-05 05:03 G	25683893.55	25683893.71	25683893.89	0.0088	0.0056	



Venus	65608-08-17 17:31 G	25684119.09	25684119.23	25684119.40	0.0088	0.0061
Venus	65609-03-31 06:00 G	25684344.63	25684344.75	25684344.92	0.0088	0.0066
Venus	65609-11-11 19:27 G	25684570.18	25684570.31	25684570.44	0.0088	0.0070
Venus	65610-06-25 07:55 G	25684795.73	25684795.83	25684795.96	0.0088	0.0075
Venus	65611-02-05 20:24 G	25685021.28	25685021.35	25685021.47	0.0088	0.0080
Venus	65611-09-19 09:22 G	25685246.84	25685246.89	25685246.97	0.0088	0.0084
Venus	65612-05-01 22:19 G	25685472.43	25685472.43	25685472.45	0.0088	0.0088
Mars	65636-02-12 17:46 G	25694158.94	25694159.24	25694159.56	0.0089	0.0015
Venus	65671-08-13 09:36 G	25707124.85	25707124.90	25707124.97	0.0090	0.0086
Venus	65672-03-25 23:17 G	25707350.38	25707350.47	25707350.56	0.0090	0.0081
Venus	65672-11-06 12:00 G	25707575.91	25707576.00	25707576.13	0.0090	0.0077
Venus	65673-06-20 01:12 G	25707801.44	25707801.55	25707801.70	0.0090	0.0072
Venus	65674-01-31 14:39 G	25708026.98	25708027.11	25708027.27	0.0090	0.0067
Venus	65674-09-14 04:05 G	25708252.52	25708252.67	25708252.84	0.0090	0.0062
Venus	65675-04-27 17:31 G	25708478.07	25708478.23	25708478.41	0.0089	0.0057
Venus	65675-12-09 06:43 G	25708703.62	25708703.78	25708703.97	0.0089	0.0052
Venus	65676-07-21 20:10 G	25708929.16	25708929.34	25708929.54	0.0089	0.0047
Venus	65677-03-04 09:36 G	25709154.71	25709154.90	25709155.10	0.0089	0.0041
Venus	65677-10-15 22:48 G	25709380.26	25709380.45	25709380.67	0.0089	0.0037
Venus	65678-05-29 12:15 G	25709605.82	25709606.01	25709606.23	0.0089	0.0031
Venus	65679-01-10 01:27 G	25709831.37	25709831.56	25709831.79	0.0089	0.0027
Mercury	65679-05-29 16:48 G	25709971.16	25709971.20	25709971.25	0.0089	0.0084
Venus	65679-08-23 14:53 G	25710056.92	25710057.12	25710057.35	0.0089	0.0022
Mercury	65679-08-25 18:29 G	25710059.20	25710059.27	25710059.35	0.0089	0.0075
Mercury	65679-11-21 19:55 G	25710147.25	25710147.33	25710147.44	0.0089	0.0068
Mercury	65680-02-17 22:05 G	25710235.31	25710235.42	25710235.53	0.0089	0.0059
Venus	65680-04-05 04:34 G	25710282.48	25710282.69	25710282.91	0.0089	0.0016
Mercury	65680-05-15 23:31 G	25710323.37	25710323.48	25710323.61	0.0089	0.0051
Mercury	65680-08-12 01:12 G	25710411.43	25710411.55	25710411.69	0.0089	0.0042
Mercury	65680-11-08 03:07 G	25710499.50	25710499.63	25710499.76	0.0089	0.0034

Venus	65680-11-16 18:00 G	25710508.03	25710508.25	25710508.47	0.0089	0.0011
Mercury	65681-02-04 04:48 G	25710587.56	25710587.70	25710587.84	0.0089	0.0025
Mercury	65681-05-03 06:29 G	25710675.63	25710675.77	25710675.91	0.0089	0.0017
Venus	65681-06-30 07:12 G	25710733.58	25710733.80	25710734.02	0.0089	0.0006
Mercury	65681-07-30 08:10 G	25710763.70	25710763.84	25710763.98	0.0089	0.0009
Mercury	65681-10-26 09:51 G	25710851.77	25710851.91	25710852.05	0.0089	0.0002
Mercury	65682-01-22 11:31 G	25710939.83	25710939.98	25710940.12	0.0089	0.0008
Venus	65682-02-10 20:39 G	25710959.14	25710959.36	25710959.58	0.0089	0.0001
Mercury	65682-04-20 12:58 G	25711027.90	25711028.04	25711028.18	0.0089	0.0016
Moon	65682-06-20 11:46 G	25711088.88	25711088.99	25711089.11	0.0089	0.0080
Earth	65682-06-20 14:39 G	25711089.03	25711089.11	25711089.24	0.0089	0.0082 *
Mercury	65682-07-17 14:39 G	25711115.98	25711116.11	25711116.25	0.0089	0.0024
Venus	65682-09-24 09:51 G	25711184.69	25711184.91	25711185.13	0.0089	0.0005
Mercury	65682-10-13 16:19 G	25711204.05	25711204.18	25711204.31	0.0089	0.0032
Mercury	65683-01-09 18:00 G	25711292.12	25711292.25	25711292.37	0.0089	0.0040
Mercury	65683-04-07 19:12 G	25711380.19	25711380.30	25711380.43	0.0089	0.0048
Venus	65683-05-07 23:17 G	25711410.25	25711410.47	25711410.69	0.0089	0.0010
Earth	65683-06-23 02:10 G	25711456.40	25711456.59	25711456.82	0.0089	0.0051
Moon	65683-06-23 06:00 G	25711456.56	25711456.75	25711456.97	0.0089	0.0053 *
Mercury	65683-07-04 21:07 G	25711468.27	25711468.38	25711468.49	0.0089	0.0056
Mercury	65683-09-30 22:48 G	25711556.35	25711556.45	25711556.54	0.0089	0.0064
Venus	65683-12-19 12:29 G	25711635.81	25711636.02	25711636.24	0.0089	0.0015
Mercury	65683-12-28 00:15 G	25711644.43	25711644.51	25711644.59	0.0089	0.0072
Mercury	65684-03-25 01:41 G	25711732.52	25711732.57	25711732.64	0.0089	0.0080
Mercury	65684-06-21 03:22 G	25711820.62	25711820.64	25711820.67	0.0089	0.0087
Moon	65684-06-24 11:03 G	25711823.72	25711823.96	25711824.21	0.0089	0.0020
Earth	65684-06-24 13:55 G	25711823.84	25711824.08	25711824.34	0.0089	0.0022 *
Venus	65684-08-01 01:41 G	25711861.36	25711861.57	25711861.79	0.0089	0.0020
Venus	65685-03-14 15:07 G	25712086.92	25712087.13	25712087.34	0.0089	0.0025
Earth	65685-06-27 01:27 G	25712191.31	25712191.56	25712191.82	0.0089	0.0009

Moon	65685-06-27 04:19 G	25712191.43	25712191.68	25712191.95	0.0089	0.0009	*
Venus	65685-10-26 04:19 G	25712312.48	25712312.68	25712312.89	0.0089	0.0031	
Venus	65686-06-08 17:46 G	25712538.04	25712538.24	25712538.44	0.0089	0.0036	
Moon	65686-06-29 11:31 G	25712558.77	25712558.98	25712559.21	0.0089	0.0041	
Earth	65686-06-29 12:43 G	25712558.82	25712559.03	25712559.28	0.0089	0.0040	*
Venus	65687-01-20 06:58 G	25712763.59	25712763.79	25712763.98	0.0089	0.0041	
Moon	65687-07-02 00:00 G	25712926.36	25712926.50	25712926.71	0.0089	0.0069	
Earth	65687-07-02 00:15 G	25712926.37	25712926.51	25712926.69	0.0089	0.0069	*
Venus	65687-09-02 19:41 G	25712989.15	25712989.32	25712989.53	0.0089	0.0046	
Venus	65688-04-15 09:07 G	25713214.72	25713214.88	25713215.08	0.0089	0.0051	
Venus	65688-11-26 22:19 G	25713440.28	25713440.43	25713440.62	0.0089	0.0056	
Venus	65689-07-10 12:00 G	25713665.84	25713666.00	25713666.16	0.0089	0.0061	
Venus	65690-02-21 01:12 G	25713891.41	25713891.55	25713891.71	0.0089	0.0065	
Venus	65690-10-04 14:24 G	25714116.98	25714117.10	25714117.25	0.0089	0.0070	
Venus	65691-05-18 03:51 G	25714342.56	25714342.66	25714342.79	0.0089	0.0075	
Venus	65691-12-29 17:03 G	25714568.13	25714568.21	25714568.32	0.0089	0.0080	
Venus	65692-08-11 06:00 G	25714793.72	25714793.75	25714793.85	0.0089	0.0085	
Jupiter	65704-05-08 14:53 G	25719080.75	25719081.12	25719081.52	0.0088	0.0061	
Mars	65716-02-20 14:53 G	25723386.03	25723386.12	25723386.27	0.0088	0.0081	
Mars	65718-01-15 05:17 G	25724080.53	25724080.72	25724080.96	0.0088	0.0063	
Venus	65753-09-29 17:46 G	25737122.24	25737122.24	25737122.25	0.0088	0.0088	
Venus	65754-05-13 06:29 G	25737347.71	25737347.77	25737347.84	0.0088	0.0083	
Venus	65754-12-24 18:58 G	25737573.21	25737573.29	25737573.40	0.0088	0.0079	
Venus	65755-08-07 07:55 G	25737798.72	25737798.83	25737798.95	0.0088	0.0074	
Venus	65756-03-19 20:10 G	25738024.24	25738024.34	25738024.50	0.0088	0.0070	
Venus	65756-10-31 09:07 G	25738249.75	25738249.88	25738250.05	0.0088	0.0065	
Venus	65757-06-13 22:05 G	25738475.27	25738475.42	25738475.59	0.0088	0.0060	
Venus	65758-01-25 11:03 G	25738700.79	25738700.96	25738701.13	0.0088	0.0055	
Venus	65758-09-07 23:31 G	25738926.32	25738926.48	25738926.67	0.0088	0.0051	
Venus	65759-04-21 12:15 G	25739151.84	25739152.01	25739152.21	0.0088	0.0046	

Venus	65759-12-03 00:58 G	25739377.36	25739377.54	25739377.75	0.0088	0.0041
Venus	65760-07-15 13:41 G	25739602.88	25739603.07	25739603.28	0.0088	0.0036
Venus	65761-02-26 02:24 G	25739828.40	25739828.60	25739828.81	0.0088	0.0031
Venus	65761-10-09 15:22 G	25740053.93	25740054.14	25740054.35	0.0088	0.0026
Venus	65762-05-23 04:05 G	25740279.46	25740279.67	25740279.88	0.0088	0.0021
Mercury	65762-11-01 19:27 G	25740442.31	25740442.31	25740442.36	0.0088	0.0087
Venus	65763-01-03 16:34 G	25740504.98	25740505.19	25740505.41	0.0088	0.0017
Mercury	65763-01-28 22:34 G	25740530.36	25740530.44	25740530.52	0.0088	0.0077
Mercury	65763-04-27 00:58 G	25740618.45	25740618.54	25740618.66	0.0088	0.0068
Mercury	65763-07-24 03:36 G	25740706.54	25740706.65	25740706.80	0.0088	0.0059
Venus	65763-08-17 05:17 G	25740730.51	25740730.72	25740730.94	0.0088	0.0012
Mercury	65763-10-20 06:29 G	25740794.64	25740794.77	25740794.92	0.0088	0.0049
Mercury	65764-01-16 09:07 G	25740882.74	25740882.88	25740883.05	0.0088	0.0040
Venus	65764-03-29 18:00 G	25740956.03	25740956.25	25740956.47	0.0088	0.0007
Mercury	65764-04-13 12:00 G	25740970.84	25740971.00	25740971.17	0.0088	0.0030
Mercury	65764-07-10 14:53 G	25741058.95	25741059.12	25741059.29	0.0088	0.0021
Mercury	65764-10-06 17:46 G	25741147.06	25741147.24	25741147.41	0.0088	0.0011
Venus	65764-11-10 06:58 G	25741181.57	25741181.79	25741182.01	0.0088	0.0002
Mercury	65765-01-02 20:24 G	25741235.18	25741235.35	25741235.53	0.0088	0.0002
Mercury	65765-03-31 23:17 G	25741323.29	25741323.47	25741323.65	0.0088	0.0008
Venus	65765-06-23 19:41 G	25741407.10	25741407.32	25741407.54	0.0088	0.0004
Mercury	65765-06-28 01:55 G	25741411.41	25741411.58	25741411.76	0.0088	0.0018
Mercury	65765-09-24 04:48 G	25741499.54	25741499.70	25741499.87	0.0088	0.0028
Mercury	65765-12-21 07:27 G	25741587.66	25741587.81	25741587.98	0.0088	0.0038
Moon	65765-12-24 10:48 G	25741590.83	25741590.95	25741591.11	0.0088	0.0074
Earth	65765-12-24 14:24 G	25741590.96	25741591.10	25741591.27	0.0088	0.0070 *
Venus	65766-02-04 08:24 G	25741632.63	25741632.85	25741633.07	0.0088	0.0008
Mercury	65766-03-19 10:34 G	25741675.79	25741675.94	25741676.09	0.0088	0.0047
Mercury	65766-06-15 13:12 G	25741763.93	25741764.05	25741764.20	0.0088	0.0058
Mercury	65766-09-11 16:05 G	25741852.07	25741852.17	25741852.29	0.0088	0.0067

Venus	65766-09-17 21:07 G	25741858.16	25741858.38	25741858.60	0.0088	0.0013
Mercury	65766-12-08 18:58 G	25741940.22	25741940.29	25741940.39	0.0088	0.0077
Earth	65766-12-27 02:10 G	25741958.37	25741958.59	25741958.83	0.0088	0.0041
Moon	65766-12-27 05:03 G	25741958.48	25741958.71	25741958.96	0.0088	0.0037 *
Mercury	65767-03-06 21:51 G	25742028.40	25742028.41	25742028.44	0.0088	0.0087
Venus	65767-05-01 09:51 G	25742083.70	25742083.91	25742084.13	0.0088	0.0018
Venus	65767-12-12 22:34 G	25742309.23	25742309.44	25742309.66	0.0088	0.0023
Moon	65767-12-29 12:43 G	25742325.78	25742326.03	25742326.28	0.0088	0.0015
Earth	65767-12-29 14:10 G	25742325.84	25742326.09	25742326.36	0.0088	0.0012 *
Venus	65768-07-25 11:17 G	25742534.77	25742534.97	25742535.18	0.0088	0.0028
Earth	65768-12-31 01:55 G	25742693.34	25742693.58	25742693.85	0.0088	0.0018
Moon	65768-12-31 02:53 G	25742693.37	25742693.62	25742693.89	0.0088	0.0021 *
Venus	65769-03-07 23:46 G	25742760.30	25742760.49	25742760.71	0.0088	0.0034
Venus	65769-10-19 12:43 G	25742985.85	25742986.03	25742986.25	0.0088	0.0038
Earth	65770-01-02 13:27 G	25743060.86	25743061.06	25743061.30	0.0088	0.0047
Moon	65770-01-02 14:24 G	25743060.89	25743061.10	25743061.32	0.0088	0.0043 *
Venus	65770-06-02 01:27 G	25743211.39	25743211.56	25743211.77	0.0088	0.0043
Moon	65771-01-04 23:03 G	25743428.38	25743428.46	25743428.60	0.0088	0.0080
Earth	65771-01-05 01:12 G	25743428.44	25743428.55	25743428.70	0.0088	0.0077 *
Venus	65771-01-13 14:39 G	25743436.93	25743437.11	25743437.29	0.0088	0.0048
Venus	65771-08-27 03:07 G	25743662.46	25743662.63	25743662.82	0.0088	0.0053
Venus	65772-04-08 15:51 G	25743888.01	25743888.16	25743888.34	0.0088	0.0057
Venus	65772-11-20 04:34 G	25744113.55	25744113.69	25744113.86	0.0088	0.0062
Venus	65773-07-03 17:03 G	25744339.10	25744339.21	25744339.38	0.0088	0.0068
Venus	65774-02-14 06:15 G	25744564.64	25744564.76	25744564.89	0.0088	0.0072
Venus	65774-09-27 18:43 G	25744790.19	25744790.28	25744790.41	0.0088	0.0077
Venus	65775-05-11 07:55 G	25745015.75	25745015.83	25745015.92	0.0088	0.0081
Venus	65775-12-22 20:24 G	25745241.31	25745241.35	25745241.41	0.0088	0.0086
Mars	65799-09-28 04:48 G	25753921.46	25753921.70	25753921.99	0.0089	0.0048
Venus	65835-04-05 06:43 G	25766893.78	25766893.78	25766893.79	0.0090	0.0089

Venus	65835-11-16 19:41 G	25767119.27	25767119.32	25767119.41	0.0090	0.0085
Venus	65836-06-29 09:22 G	25767344.80	25767344.89	25767344.99	0.0090	0.0080
Venus	65837-02-09 22:48 G	25767570.33	25767570.45	25767570.57	0.0090	0.0075
Venus	65837-09-23 11:31 G	25767795.87	25767795.98	25767796.14	0.0090	0.0071
Venus	65838-05-07 00:58 G	25768021.41	25768021.54	25768021.71	0.0090	0.0066
Venus	65838-12-18 14:10 G	25768246.95	25768247.09	25768247.28	0.0090	0.0061
Venus	65839-08-01 03:36 G	25768472.50	25768472.65	25768472.84	0.0089	0.0056
Venus	65840-03-13 17:03 G	25768698.05	25768698.21	25768698.41	0.0089	0.0051
Venus	65840-10-25 06:15 G	25768923.59	25768923.76	25768923.97	0.0089	0.0046
Venus	65841-06-07 19:41 G	25769149.14	25769149.32	25769149.53	0.0089	0.0040
Venus	65842-01-19 09:22 G	25769374.69	25769374.89	25769375.09	0.0089	0.0035
Venus	65842-09-01 22:34 G	25769600.24	25769600.44	25769600.65	0.0089	0.0030
Venus	65843-04-15 12:00 G	25769825.80	25769826.00	25769826.22	0.0089	0.0025
Venus	65843-11-27 01:27 G	25770051.35	25770051.56	25770051.78	0.0089	0.0019
Mercury	65843-11-29 14:24 G	25770054.09	25770054.10	25770054.13	0.0089	0.0088
Mercury	65844-02-25 16:05 G	25770142.12	25770142.17	25770142.25	0.0089	0.0080
Mercury	65844-05-23 18:00 G	25770230.17	25770230.25	25770230.34	0.0089	0.0071
Venus	65844-07-09 14:39 G	25770276.90	25770277.11	25770277.34	0.0089	0.0015
Mercury	65844-08-19 19:41 G	25770318.22	25770318.32	25770318.43	0.0089	0.0063
Mercury	65844-11-15 21:22 G	25770406.28	25770406.39	25770406.51	0.0089	0.0054
Mercury	65845-02-11 23:17 G	25770494.35	25770494.47	25770494.59	0.0089	0.0046
Venus	65845-02-20 04:05 G	25770502.46	25770502.67	25770502.89	0.0089	0.0009
Mercury	65845-05-11 00:43 G	25770582.41	25770582.53	25770582.67	0.0089	0.0038
Mercury	65845-08-07 02:24 G	25770670.48	25770670.60	25770670.75	0.0089	0.0030
Venus	65845-10-03 17:31 G	25770728.01	25770728.23	25770728.45	0.0089	0.0004
Mercury	65845-11-03 04:19 G	25770758.54	25770758.68	25770758.82	0.0089	0.0021
Mercury	65846-01-30 06:00 G	25770846.61	25770846.75	25770846.89	0.0089	0.0013
Mercury	65846-04-28 07:41 G	25770934.68	25770934.82	25770934.96	0.0089	0.0004
Venus	65846-05-17 06:58 G	25770953.57	25770953.79	25770954.01	0.0089	0.0002
Mercury	65846-07-25 09:22 G	25771022.75	25771022.89	25771023.03	0.0089	0.0004

Mercury	65846-10-21 11:03 G	25771110.82	25771110.96	25771111.10	0.0089	0.0012
Venus	65846-12-28 20:24 G	25771179.13	25771179.35	25771179.57	0.0089	0.0007
Mercury	65847-01-17 12:29 G	25771198.89	25771199.02	25771199.16	0.0089	0.0020
Mercury	65847-04-15 14:10 G	25771286.96	25771287.09	25771287.23	0.0089	0.0028
Moon	65847-06-24 08:53 G	25771356.70	25771356.87	25771357.07	0.0089	0.0060
Earth	65847-06-24 11:31 G	25771356.84	25771356.98	25771357.19	0.0089	0.0066 *
Mercury	65847-07-12 15:51 G	25771375.03	25771375.16	25771375.29	0.0089	0.0036
Venus	65847-08-11 09:36 G	25771404.68	25771404.90	25771405.12	0.0089	0.0012
Mercury	65847-10-08 17:17 G	25771463.11	25771463.22	25771463.35	0.0089	0.0045
Mercury	65848-01-04 18:58 G	25771551.18	25771551.29	25771551.41	0.0089	0.0052
Venus	65848-03-23 22:48 G	25771630.25	25771630.45	25771630.68	0.0089	0.0018
Mercury	65848-04-01 20:39 G	25771639.26	25771639.36	25771639.47	0.0089	0.0060
Earth	65848-06-25 23:46 G	25771724.25	25771724.49	25771724.72	0.0089	0.0035
Moon	65848-06-26 01:12 G	25771724.33	25771724.55	25771724.80	0.0089	0.0039 *
Mercury	65848-06-28 22:05 G	25771727.34	25771727.42	25771727.52	0.0089	0.0069
Mercury	65848-09-24 23:46 G	25771815.43	25771815.49	25771815.57	0.0089	0.0076
Venus	65848-11-04 12:15 G	25771855.80	25771856.01	25771856.23	0.0089	0.0022
Mercury	65848-12-22 01:12 G	25771903.52	25771903.55	25771903.61	0.0089	0.0084
Venus	65849-06-18 01:27 G	25772081.36	25772081.56	25772081.78	0.0089	0.0027
Moon	65849-06-28 10:05 G	25772091.68	25772091.92	25772092.17	0.0089	0.0002
Earth	65849-06-28 11:17 G	25772091.72	25772091.97	25772092.23	0.0089	0.0005 *
Venus	65850-01-29 14:39 G	25772306.92	25772307.11	25772307.33	0.0089	0.0033
Moon	65850-06-30 22:34 G	25772459.19	25772459.44	25772459.70	0.0089	0.0021
Earth	65850-06-30 22:34 G	25772459.21	25772459.44	25772459.70	0.0089	0.0026 *
Venus	65850-09-12 04:05 G	25772532.47	25772532.67	25772532.87	0.0089	0.0037
Venus	65851-04-25 17:31 G	25772758.04	25772758.23	25772758.42	0.0089	0.0042
Earth	65851-07-03 09:36 G	25772826.72	25772826.90	25772827.13	0.0089	0.0056
Moon	65851-07-03 11:31 G	25772826.81	25772826.98	25772827.18	0.0089	0.0059 *
Venus	65851-12-07 06:43 G	25772983.60	25772983.78	25772983.97	0.0089	0.0047
Moon	65852-07-04 18:58 G	25773194.20	25773194.29	25773194.42	0.0089	0.0080

Earth	65852-07-04 21:07 G	25773194.33	25773194.38	25773194.48	0.0089	0.0085 *
Venus	65852-07-19 19:55 G	25773209.16	25773209.33	25773209.51	0.0089	0.0052
Venus	65853-03-02 09:07 G	25773434.72	25773434.88	25773435.05	0.0089	0.0057
Venus	65853-10-13 22:19 G	25773660.28	25773660.43	25773660.59	0.0089	0.0062
Venus	65854-05-27 11:31 G	25773885.85	25773885.98	25773886.14	0.0089	0.0068
Venus	65855-01-08 00:43 G	25774111.42	25774111.53	25774111.67	0.0089	0.0072
Venus	65855-08-21 13:55 G	25774336.99	25774337.08	25774337.21	0.0089	0.0077
Venus	65856-04-03 03:07 G	25774562.57	25774562.63	25774562.74	0.0089	0.0082
Venus	65856-11-14 17:03 G	25774788.16	25774788.21	25774788.26	0.0089	0.0086
Jupiter	65870-07-12 04:05 G	25779775.18	25779775.67	25779776.18	0.0088	0.0031
Mars	65881-08-31 00:58 G	25783843.23	25783843.54	25783843.86	0.0088	0.0005
Venus	65918-01-03 03:51 G	25797116.65	25797116.66	25797116.71	0.0088	0.0087
Venus	65918-08-16 16:48 G	25797342.14	25797342.20	25797342.29	0.0088	0.0082
Venus	65919-03-30 05:17 G	25797567.64	25797567.72	25797567.84	0.0088	0.0078
Venus	65919-11-10 18:15 G	25797793.15	25797793.26	25797793.39	0.0088	0.0073
Venus	65920-06-23 07:12 G	25798018.67	25798018.80	25798018.94	0.0088	0.0068
Venus	65921-02-03 19:27 G	25798244.18	25798244.31	25798244.48	0.0088	0.0064
Venus	65921-09-17 08:24 G	25798469.71	25798469.85	25798470.03	0.0088	0.0059
Venus	65922-04-30 21:22 G	25798695.23	25798695.39	25798695.57	0.0088	0.0054
Venus	65922-12-12 10:05 G	25798920.75	25798920.92	25798921.11	0.0088	0.0049
Venus	65923-07-25 23:03 G	25799146.27	25799146.46	25799146.65	0.0088	0.0044
Venus	65924-03-07 11:17 G	25799371.79	25799371.97	25799372.19	0.0088	0.0040
Venus	65924-10-19 00:15 G	25799597.32	25799597.51	25799597.73	0.0088	0.0035
Venus	65925-06-01 12:58 G	25799822.85	25799823.04	25799823.26	0.0088	0.0030
Venus	65926-01-13 01:41 G	25800048.37	25800048.57	25800048.79	0.0088	0.0025
Venus	65926-08-26 14:24 G	25800273.89	25800274.10	25800274.32	0.0088	0.0020
Venus	65927-04-09 03:07 G	25800499.42	25800499.63	25800499.86	0.0088	0.0015
Mercury	65927-07-31 18:15 G	25800613.22	25800613.26	25800613.34	0.0088	0.0082
Mercury	65927-10-27 21:22 G	25800701.29	25800701.39	25800701.48	0.0088	0.0072
Venus	65927-11-20 15:51 G	25800724.95	25800725.16	25800725.39	0.0088	0.0010



Mercury	65928-01-23 23:46 G	25800789.38	25800789.49	25800789.62	0.0088	0.0063
Mercury	65928-04-21 02:24 G	25800877.47	25800877.60	25800877.75	0.0088	0.0054
Venus	65928-07-03 04:34 G	25800950.47	25800950.69	25800950.91	0.0088	0.0005
Mercury	65928-07-18 05:17 G	25800965.57	25800965.72	25800965.87	0.0088	0.0044
Mercury	65928-10-14 07:55 G	25801053.68	25801053.83	25801054.00	0.0088	0.0035
Mercury	65929-01-10 10:48 G	25801141.78	25801141.95	25801142.12	0.0088	0.0025
Venus	65929-02-13 17:17 G	25801176.00	25801176.22	25801176.44	0.0088	0.0001
Mercury	65929-04-08 13:27 G	25801229.89	25801230.06	25801230.24	0.0088	0.0016
Mercury	65929-07-05 16:19 G	25801318.00	25801318.18	25801318.36	0.0088	0.0006
Venus	65929-09-27 06:00 G	25801401.54	25801401.75	25801401.98	0.0088	0.0005
Mercury	65929-10-01 18:58 G	25801406.12	25801406.29	25801406.47	0.0088	0.0004
Earth	65929-12-25 22:19 G	25801491.37	25801491.43	25801491.52	0.0088	0.0084
Moon	65929-12-26 00:29 G	25801491.46	25801491.52	25801491.65	0.0088	0.0082 *
Mercury	65929-12-28 21:51 G	25801494.24	25801494.41	25801494.59	0.0088	0.0013
Mercury	65930-03-27 00:29 G	25801582.36	25801582.52	25801582.70	0.0088	0.0023
Venus	65930-05-10 18:43 G	25801627.07	25801627.28	25801627.50	0.0088	0.0010
Mercury	65930-06-23 03:22 G	25801670.48	25801670.64	25801670.81	0.0088	0.0032
Mercury	65930-09-19 06:15 G	25801758.61	25801758.76	25801758.92	0.0088	0.0042
Mercury	65930-12-16 08:53 G	25801846.74	25801846.87	25801847.02	0.0088	0.0052
Venus	65930-12-22 07:12 G	25801852.59	25801852.80	25801853.03	0.0088	0.0015
Moon	65930-12-28 08:53 G	25801858.69	25801858.87	25801859.07	0.0088	0.0057
Earth	65930-12-28 10:05 G	25801858.73	25801858.92	25801859.14	0.0088	0.0055 *
Mercury	65931-03-14 11:31 G	25801934.87	25801934.98	25801935.12	0.0088	0.0062
Mercury	65931-06-10 14:24 G	25802023.02	25802023.10	25802023.22	0.0088	0.0072
Venus	65931-08-04 19:55 G	25802078.12	25802078.33	25802078.55	0.0088	0.0020
Mercury	65931-09-06 17:17 G	25802111.17	25802111.22	25802111.30	0.0088	0.0082
Moon	65931-12-30 21:36 G	25802226.15	25802226.40	25802226.67	0.0088	0.0025
Earth	65931-12-30 21:51 G	25802226.18	25802226.41	25802226.67	0.0088	0.0026 *
Venus	65932-03-17 08:39 G	25802303.66	25802303.86	25802304.08	0.0088	0.0025
Venus	65932-10-28 21:51 G	25802529.20	25802529.41	25802529.61	0.0088	0.0030

Earth	65933-01-01 09:51 G	25802593.65	25802593.91	25802594.17	0.0088	0.0004
Moon	65933-01-01 10:48 G	25802593.70	25802593.95	25802594.20	0.0088	0.0001 *
Venus	65933-06-11 10:19 G	25802754.74	25802754.93	25802755.14	0.0088	0.0035
Moon	65934-01-03 18:58 G	25802961.06	25802961.29	25802961.54	0.0088	0.0035
Earth	65934-01-03 21:07 G	25802961.16	25802961.38	25802961.64	0.0088	0.0033 *
Venus	65934-01-22 23:03 G	25802980.27	25802980.46	25802980.67	0.0088	0.0040
Venus	65934-09-05 11:46 G	25803205.81	25803205.99	25803206.19	0.0088	0.0044
Earth	65935-01-06 08:53 G	25803328.71	25803328.87	25803329.07	0.0088	0.0062
Moon	65935-01-06 12:15 G	25803328.84	25803329.01	25803329.21	0.0088	0.0060 *
Venus	65935-04-19 00:29 G	25803431.35	25803431.52	25803431.71	0.0088	0.0049
Venus	65935-11-30 13:12 G	25803656.89	25803657.05	25803657.24	0.0088	0.0054
Venus	65936-07-13 01:55 G	25803882.44	25803882.58	25803882.76	0.0088	0.0059
Venus	65937-02-23 15:07 G	25804107.98	25804108.13	25804108.28	0.0088	0.0064
Venus	65937-10-07 03:36 G	25804333.53	25804333.65	25804333.80	0.0088	0.0069
Venus	65938-05-20 16:19 G	25804559.08	25804559.18	25804559.32	0.0088	0.0074
Venus	65939-01-01 04:48 G	25804784.63	25804784.70	25804784.83	0.0088	0.0079
Venus	65939-08-14 17:46 G	25805010.18	25805010.24	25805010.33	0.0088	0.0083
Venus	65940-03-27 06:15 G	25805235.76	25805235.76	25805235.82	0.0088	0.0088
Mars	65965-04-08 16:34 G	25814378.92	25814379.19	25814379.47	0.0089	0.0042
Venus	65999-07-08 16:05 G	25826888.16	25826888.17	25826888.23	0.0090	0.0089
Venus	66000-02-19 05:46 G	25827113.68	25827113.74	25827113.83	0.0090	0.0084
Venus	66000-10-01 19:12 G	25827339.21	25827339.30	25827339.41	0.0090	0.0079

# 67TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 67th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	66001-05-15 08:39	G	25827564.74	25827564.86	25827564.99	0.0090	0.0074	
Venus	66001-12-26 21:51	G	25827790.28	25827790.41	25827790.56	0.0090	0.0069	
Venus	66002-08-09 11:17	G	25828015.82	25828015.97	25828016.13	0.0090	0.0064	
Venus	66003-03-23 00:43	G	25828241.37	25828241.53	25828241.70	0.0090	0.0059	
Venus	66003-11-03 13:55	G	25828466.91	25828467.08	25828467.26	0.0090	0.0054	
Venus	66004-06-16 03:22	G	25828692.46	25828692.64	25828692.82	0.0090	0.0049	
Venus	66005-01-27 16:34	G	25828918.00	25828918.19	25828918.38	0.0089	0.0044	
Venus	66005-09-10 05:46	G	25829143.55	25829143.74	25829143.94	0.0089	0.0039	
Venus	66006-04-23 19:12	G	25829369.10	25829369.30	25829369.51	0.0089	0.0034	
Venus	66006-12-05 08:24	G	25829594.65	25829594.85	25829595.07	0.0089	0.0029	
Venus	66007-07-18 21:36	G	25829820.20	25829820.40	25829820.62	0.0089	0.0024	
Venus	66008-02-29 11:03	G	25830045.75	25830045.96	25830046.18	0.0089	0.0018	
Mercury	66008-08-26 13:55	G	25830225.03	25830225.08	25830225.13	0.0089	0.0084	
Venus	66008-10-12 00:29	G	25830271.31	25830271.52	25830271.74	0.0089	0.0013	
Mercury	66008-11-22 15:22	G	25830313.08	25830313.14	25830313.23	0.0089	0.0076	
Mercury	66009-02-18 17:31	G	25830401.13	25830401.23	25830401.32	0.0089	0.0067	
Mercury	66009-05-17 18:58	G	25830489.19	25830489.29	25830489.41	0.0089	0.0059	
Venus	66009-05-25 13:55	G	25830496.86	25830497.08	25830497.30	0.0089	0.0008	
Mercury	66009-08-13 20:39	G	25830577.25	25830577.36	25830577.49	0.0089	0.0050	
Mercury	66009-11-09 22:34	G	25830665.31	25830665.44	25830665.57	0.0089	0.0042	
Venus	66010-01-06 03:07	G	25830722.42	25830722.63	25830722.86	0.0089	0.0003	
Mercury	66010-02-06 00:15	G	25830753.38	25830753.51	25830753.64	0.0089	0.0033	
Mercury	66010-05-05 01:55	G	25830841.44	25830841.58	25830841.72	0.0089	0.0025	
Mercury	66010-08-01 03:36	G	25830929.51	25830929.65	25830929.79	0.0089	0.0017	
Venus	66010-08-19 16:34	G	25830947.97	25830948.19	25830948.41	0.0089	0.0003	
Mercury	66010-10-28 05:17	G	25831017.58	25831017.72	25831017.86	0.0089	0.0009	

Mercury	66011-01-24 06:58 G	25831105.65	25831105.79	25831105.93	0.0089	0.0001
Venus	66011-04-02 06:00 G	25831173.53	25831173.75	25831173.97	0.0089	0.0008
Mercury	66011-04-22 08:39 G	25831193.72	25831193.86	25831194.00	0.0089	0.0008
Earth	66011-06-24 19:55 G	25831257.24	25831257.33	25831257.47	0.0089	0.0079
Moon	66011-06-24 22:05 G	25831257.30	25831257.42	25831257.57	0.0089	0.0077 *
Mercury	66011-07-19 10:19 G	25831281.79	25831281.93	25831282.07	0.0089	0.0016
Mercury	66011-10-15 11:46 G	25831369.86	25831369.99	25831370.13	0.0089	0.0025
Venus	66011-11-13 19:12 G	25831399.09	25831399.30	25831399.53	0.0089	0.0014
Mercury	66012-01-11 13:27 G	25831457.93	25831458.06	25831458.20	0.0089	0.0032
Mercury	66012-04-08 15:07 G	25831546.01	25831546.13	25831546.26	0.0089	0.0040
Earth	66012-06-26 07:41 G	25831624.63	25831624.82	25831625.06	0.0089	0.0050
Moon	66012-06-26 07:41 G	25831624.64	25831624.82	25831625.04	0.0089	0.0052 *
Venus	66012-06-26 08:39 G	25831624.65	25831624.86	25831625.08	0.0089	0.0018 *
Mercury	66012-07-05 16:48 G	25831634.08	25831634.20	25831634.32	0.0089	0.0048
Mercury	66012-10-01 18:15 G	25831722.16	25831722.26	25831722.38	0.0089	0.0057
Mercury	66012-12-28 19:55 G	25831810.24	25831810.33	25831810.43	0.0089	0.0064
Venus	66013-02-06 22:05 G	25831850.21	25831850.42	25831850.63	0.0089	0.0023
Mercury	66013-03-26 21:36 G	25831898.32	25831898.40	25831898.49	0.0089	0.0072
Mercury	66013-06-22 23:03 G	25831986.41	25831986.46	25831986.53	0.0089	0.0080
Moon	66013-06-28 18:43 G	25831992.04	25831992.28	25831992.56	0.0089	0.0018
Earth	66013-06-28 19:41 G	25831992.08	25831992.32	25831992.58	0.0089	0.0019 *
Mercury	66013-09-19 00:29 G	25832074.52	25832074.52	25832074.56	0.0089	0.0089
Venus	66013-09-20 11:17 G	25832075.77	25832075.97	25832076.18	0.0089	0.0029
Venus	66014-05-04 00:29 G	25832301.33	25832301.52	25832301.74	0.0089	0.0034
Earth	66014-07-01 07:12 G	25832359.55	25832359.80	25832360.06	0.0089	0.0011
Moon	66014-07-01 08:53 G	25832359.63	25832359.87	25832360.13	0.0089	0.0010 *
Venus	66014-12-15 13:41 G	25832526.89	25832527.07	25832527.29	0.0089	0.0040
Moon	66015-07-03 15:07 G	25832726.93	25832727.13	25832727.38	0.0089	0.0045
Earth	66015-07-03 18:29 G	25832727.06	25832727.27	25832727.52	0.0089	0.0041 *
Venus	66015-07-29 03:07 G	25832752.45	25832752.63	25832752.83	0.0089	0.0044

Venus	66016-03-10 16:19 G	25832978.01	25832978.18	25832978.38	0.0089	0.0049
Earth	66016-07-05 05:46 G	25833094.61	25833094.74	25833094.92	0.0089	0.0071
Moon	66016-07-05 09:07 G	25833094.74	25833094.88	25833095.06	0.0089	0.0069 *
Venus	66016-10-22 05:31 G	25833203.57	25833203.73	25833203.92	0.0089	0.0055
Venus	66017-06-04 18:58 G	25833429.14	25833429.29	25833429.47	0.0089	0.0059
Venus	66018-01-16 08:10 G	25833654.70	25833654.84	25833655.01	0.0089	0.0064
Venus	66018-08-29 21:22 G	25833880.27	25833880.39	25833880.54	0.0089	0.0069
Venus	66019-04-12 10:34 G	25834105.84	25834105.94	25834106.08	0.0089	0.0074
Venus	66019-11-23 23:46 G	25834331.41	25834331.49	25834331.62	0.0089	0.0079
Venus	66020-07-06 13:27 G	25834556.99	25834557.06	25834557.14	0.0089	0.0083
Venus	66021-02-17 02:24 G	25834782.59	25834782.60	25834782.64	0.0089	0.0088
Jupiter	66036-09-13 03:51 G	25840469.14	25840469.66	25840470.21	0.0088	0.0003
Mars	66045-04-15 17:46 G	25843606.02	25843606.24	25843606.50	0.0088	0.0056
Venus	66082-04-06 13:55 G	25857111.05	25857111.08	25857111.14	0.0088	0.0086
Venus	66082-11-18 02:53 G	25857336.54	25857336.62	25857336.71	0.0088	0.0081
Venus	66083-07-01 15:07 G	25857562.05	25857562.13	25857562.26	0.0088	0.0077
Venus	66084-02-12 04:05 G	25857787.56	25857787.67	25857787.81	0.0088	0.0072
Venus	66084-09-24 17:03 G	25858013.08	25858013.21	25858013.36	0.0088	0.0067
Venus	66085-05-08 05:31 G	25858238.59	25858238.73	25858238.90	0.0088	0.0063
Venus	66085-12-19 18:15 G	25858464.11	25858464.26	25858464.44	0.0088	0.0058
Venus	66086-08-02 06:58 G	25858689.63	25858689.79	25858689.98	0.0088	0.0053
Venus	66087-03-15 19:55 G	25858915.15	25858915.33	25858915.52	0.0088	0.0048
Venus	66087-10-27 08:53 G	25859140.68	25859140.87	25859141.06	0.0088	0.0043
Venus	66088-06-08 21:07 G	25859366.20	25859366.38	25859366.60	0.0088	0.0039
Venus	66089-01-20 10:05 G	25859591.73	25859591.92	25859592.14	0.0088	0.0034
Venus	66089-09-02 22:48 G	25859817.26	25859817.45	25859817.67	0.0088	0.0029
Venus	66090-04-16 11:46 G	25860042.78	25860042.99	25860043.21	0.0088	0.0024
Venus	66090-11-28 00:29 G	25860268.31	25860268.52	25860268.74	0.0088	0.0019
Venus	66091-07-11 13:12 G	25860493.84	25860494.05	25860494.27	0.0088	0.0014
Mercury	66092-01-29 13:55 G	25860696.08	25860696.08	25860696.13	0.0088	0.0087

Venus	66092-02-22 01:55 G	25860719.36	25860719.58	25860719.80	0.0088	0.0009
Mercury	66092-04-26 17:03 G	25860784.13	25860784.21	25860784.29	0.0088	0.0077
Mercury	66092-07-23 19:27 G	25860872.22	25860872.31	25860872.43	0.0088	0.0068
Venus	66092-10-04 14:53 G	25860944.90	25860945.12	25860945.34	0.0088	0.0004
Mercury	66092-10-19 22:05 G	25860960.31	25860960.42	25860960.56	0.0088	0.0059
Mercury	66093-01-16 00:58 G	25861048.41	25861048.54	25861048.69	0.0088	0.0049
Mercury	66093-04-14 03:36 G	25861136.51	25861136.65	25861136.82	0.0088	0.0040
Venus	66093-05-18 03:36 G	25861170.43	25861170.65	25861170.87	0.0088	0.0001
Mercury	66093-07-11 06:29 G	25861224.61	25861224.77	25861224.94	0.0088	0.0030
Mercury	66093-10-07 09:07 G	25861312.72	25861312.88	25861313.06	0.0088	0.0021
Venus	66093-12-29 16:05 G	25861395.96	25861396.17	25861396.39	0.0088	0.0006
Mercury	66094-01-03 12:00 G	25861400.83	25861401.00	25861401.18	0.0088	0.0011
Mercury	66094-04-01 14:39 G	25861488.94	25861489.11	25861489.29	0.0088	0.0003
Mercury	66094-06-28 17:31 G	25861577.05	25861577.23	25861577.41	0.0088	0.0008
Venus	66094-08-12 04:48 G	25861621.48	25861621.70	25861621.92	0.0088	0.0011
Mercury	66094-09-24 20:10 G	25861665.17	25861665.34	25861665.52	0.0088	0.0018
Mercury	66094-12-21 23:03 G	25861753.29	25861753.46	25861753.63	0.0088	0.0027
Moon	66094-12-27 17:17 G	25861759.09	25861759.22	25861759.38	0.0088	0.0074
Earth	66094-12-27 17:31 G	25861759.09	25861759.23	25861759.41	0.0088	0.0069 *
Mercury	66095-03-20 01:41 G	25861841.42	25861841.57	25861841.74	0.0088	0.0037
Venus	66095-03-25 17:31 G	25861847.01	25861847.23	25861847.45	0.0088	0.0016
Mercury	66095-06-16 04:19 G	25861929.54	25861929.68	25861929.84	0.0088	0.0047
Mercury	66095-09-12 07:27 G	25862017.68	25862017.81	25862017.95	0.0088	0.0056
Venus	66095-11-06 06:15 G	25862072.55	25862072.76	25862072.98	0.0088	0.0021
Mercury	66095-12-09 10:05 G	25862105.81	25862105.92	25862106.05	0.0088	0.0066
Earth	66095-12-30 05:17 G	25862126.50	25862126.72	25862126.96	0.0088	0.0040
Moon	66095-12-30 07:12 G	25862126.59	25862126.80	25862127.05	0.0088	0.0036 *
Mercury	66096-03-06 12:43 G	25862193.96	25862194.03	25862194.14	0.0088	0.0077
Mercury	66096-06-02 15:36 G	25862282.13	25862282.15	25862282.20	0.0088	0.0086
Venus	66096-06-18 18:58 G	25862298.08	25862298.29	25862298.50	0.0088	0.0026

Moon	66096-12-31 14:24 G	25862493.85	25862494.10	25862494.37	0.0088	0.0015
Earth	66096-12-31 17:03 G	25862493.96	25862494.21	25862494.48	0.0088	0.0011 *
Venus	66097-01-30 07:27 G	25862523.62	25862523.81	25862524.03	0.0088	0.0031
Venus	66097-09-12 20:10 G	25862749.15	25862749.34	25862749.55	0.0088	0.0036
Earth	66098-01-03 04:48 G	25862861.45	25862861.70	25862861.96	0.0088	0.0019
Moon	66098-01-03 07:55 G	25862861.60	25862861.83	25862862.09	0.0088	0.0024 *
Venus	66098-04-26 08:53 G	25862974.69	25862974.87	25862975.08	0.0088	0.0041
Venus	66098-12-07 21:36 G	25863200.23	25863200.40	25863200.60	0.0088	0.0046
Moon	66099-01-05 12:43 G	25863228.82	25863229.03	25863229.27	0.0088	0.0043
Earth	66099-01-05 16:19 G	25863228.98	25863229.18	25863229.42	0.0088	0.0048 *
Venus	66099-07-21 10:19 G	25863425.77	25863425.93	25863426.13	0.0088	0.0051
Earth	66100-01-08 03:51 G	25863596.57	25863596.66	25863596.81	0.0088	0.0078
Moon	66100-01-08 07:12 G	25863596.73	25863596.80	25863596.93	0.0088	0.0081 *
Venus	66100-03-03 23:17 G	25863651.31	25863651.47	25863651.65	0.0088	0.0056
Venus	66100-10-15 12:15 G	25863876.86	25863877.01	25863877.18	0.0088	0.0060
Venus	66101-05-29 00:43 G	25864102.40	25864102.53	25864102.70	0.0088	0.0066
Venus	66102-01-09 13:27 G	25864327.95	25864328.06	25864328.21	0.0088	0.0070
Venus	66102-08-23 02:39 G	25864553.50	25864553.61	25864553.73	0.0088	0.0075
Venus	66103-04-05 15:07 G	25864779.05	25864779.13	25864779.24	0.0088	0.0080
Venus	66103-11-17 03:51 G	25865004.62	25865004.66	25865004.75	0.0088	0.0085
Mars	66128-11-22 01:12 G	25874141.27	25874141.55	25874141.87	0.0089	0.0025
Venus	66163-10-11 01:41 G	25886882.55	25886882.57	25886882.63	0.0090	0.0088
Venus	66164-05-23 15:07 G	25887108.06	25887108.13	25887108.22	0.0090	0.0083
Venus	66165-01-04 04:34 G	25887333.59	25887333.69	25887333.81	0.0090	0.0078
Venus	66165-08-17 18:15 G	25887559.13	25887559.26	25887559.38	0.0090	0.0073
Venus	66166-03-31 07:12 G	25887784.68	25887784.80	25887784.96	0.0090	0.0069
Venus	66166-11-11 20:24 G	25888010.22	25888010.35	25888010.53	0.0090	0.0064
Venus	66167-06-25 10:19 G	25888235.76	25888235.93	25888236.10	0.0090	0.0058
Venus	66168-02-05 23:31 G	25888461.31	25888461.48	25888461.66	0.0090	0.0053
Venus	66168-09-18 12:58 G	25888686.86	25888687.04	25888687.23	0.0090	0.0048

Venus	66169-05-02 02:10 G	25888912.41	25888912.59	25888912.79	0.0089	0.0043
Venus	66169-12-13 15:22 G	25889137.96	25889138.14	25889138.35	0.0089	0.0038
Venus	66170-07-27 04:48 G	25889363.50	25889363.70	25889363.91	0.0089	0.0033
Venus	66171-03-09 18:00 G	25889589.06	25889589.25	25889589.47	0.0089	0.0028
Venus	66171-10-21 07:27 G	25889814.61	25889814.81	25889815.03	0.0089	0.0022
Venus	66172-06-02 20:53 G	25890040.16	25890040.37	25890040.59	0.0089	0.0017
Venus	66173-01-14 10:05 G	25890265.71	25890265.92	25890266.14	0.0089	0.0012
Mercury	66173-02-25 11:03 G	25890307.96	25890307.96	25890308.00	0.0089	0.0089
Mercury	66173-05-24 13:12 G	25890395.99	25890396.05	25890396.11	0.0089	0.0080
Mercury	66173-08-20 14:39 G	25890484.04	25890484.11	25890484.21	0.0089	0.0072
Venus	66173-08-27 23:31 G	25890491.26	25890491.48	25890491.70	0.0089	0.0006
Mercury	66173-11-16 16:19 G	25890572.09	25890572.18	25890572.30	0.0089	0.0064
Mercury	66174-02-12 18:15 G	25890660.15	25890660.26	25890660.38	0.0089	0.0055
Venus	66174-04-10 12:58 G	25890716.82	25890717.04	25890717.26	0.0089	0.0001
Mercury	66174-05-11 19:55 G	25890748.22	25890748.33	25890748.46	0.0089	0.0047
Mercury	66174-08-07 21:51 G	25890836.28	25890836.41	25890836.54	0.0089	0.0038
Mercury	66174-11-03 23:31 G	25890924.35	25890924.48	25890924.62	0.0089	0.0030
Venus	66174-11-22 02:10 G	25890942.37	25890942.59	25890942.81	0.0089	0.0004
Mercury	66175-01-31 01:12 G	25891012.41	25891012.55	25891012.69	0.0089	0.0021
Mercury	66175-04-29 02:53 G	25891100.48	25891100.62	25891100.76	0.0089	0.0013
Venus	66175-07-05 15:22 G	25891167.93	25891168.14	25891168.37	0.0089	0.0010
Mercury	66175-07-26 04:34 G	25891188.55	25891188.69	25891188.83	0.0089	0.0005
Mercury	66175-10-22 06:15 G	25891276.62	25891276.76	25891276.90	0.0089	0.0003
Mercury	66176-01-18 07:55 G	25891364.69	25891364.83	25891364.97	0.0089	0.0012
Venus	66176-02-16 04:48 G	25891393.48	25891393.70	25891393.92	0.0089	0.0015
Mercury	66176-04-15 09:36 G	25891452.76	25891452.90	25891453.04	0.0089	0.0020
Moon	66176-06-26 14:10 G	25891524.92	25891525.09	25891525.30	0.0089	0.0060
Earth	66176-06-26 16:05 G	25891525.00	25891525.17	25891525.36	0.0089	0.0064 *
Mercury	66176-07-12 11:03 G	25891540.83	25891540.96	25891541.10	0.0089	0.0028
Venus	66176-09-28 18:15 G	25891619.04	25891619.26	25891619.47	0.0089	0.0020



Mercury	66176-10-08 12:43 G	25891628.91	25891629.03	25891629.17	0.0089	0.0036
Mercury	66177-01-04 14:24 G	25891716.98	25891717.10	25891717.23	0.0089	0.0044
Mercury	66177-04-02 15:51 G	25891805.06	25891805.16	25891805.29	0.0089	0.0053
Venus	66177-05-12 07:27 G	25891844.61	25891844.81	25891845.03	0.0089	0.0025
Earth	66177-06-29 03:51 G	25891892.42	25891892.66	25891892.90	0.0089	0.0034
Moon	66177-06-29 05:46 G	25891892.53	25891892.74	25891892.99	0.0089	0.0038 *
Mercury	66177-06-29 17:31 G	25891893.14	25891893.23	25891893.35	0.0089	0.0060
Mercury	66177-09-25 19:12 G	25891981.22	25891981.30	25891981.40	0.0089	0.0068
Mercury	66177-12-22 20:39 G	25892069.30	25892069.36	25892069.45	0.0089	0.0077
Venus	66177-12-23 20:39 G	25892070.17	25892070.36	25892070.58	0.0089	0.0031
Mercury	66178-03-20 22:19 G	25892157.40	25892157.43	25892157.49	0.0089	0.0084
Moon	66178-07-01 12:29 G	25892259.76	25892260.02	25892260.28	0.0089	0.0001
Earth	66178-07-01 15:22 G	25892259.89	25892260.14	25892260.40	0.0089	0.0005 *
Venus	66178-08-06 10:05 G	25892295.73	25892295.92	25892296.13	0.0089	0.0035
Venus	66179-03-19 23:31 G	25892521.29	25892521.48	25892521.68	0.0089	0.0041
Earth	66179-07-04 02:53 G	25892627.38	25892627.62	25892627.87	0.0089	0.0026
Moon	66179-07-04 06:29 G	25892627.53	25892627.77	25892628.03	0.0089	0.0023 *
Venus	66179-10-31 12:58 G	25892746.85	25892747.04	25892747.23	0.0089	0.0046
Venus	66180-06-13 02:24 G	25892972.42	25892972.60	25892972.78	0.0089	0.0051
Moon	66180-07-05 10:48 G	25892994.79	25892994.95	25892995.16	0.0089	0.0060
Earth	66180-07-05 14:10 G	25892994.91	25892995.09	25892995.31	0.0089	0.0056 *
Venus	66181-01-24 15:36 G	25893197.98	25893198.15	25893198.32	0.0089	0.0056
Earth	66181-07-08 01:27 G	25893362.52	25893362.56	25893362.65	0.0089	0.0086
Moon	66181-07-08 05:03 G	25893362.62	25893362.71	25893362.83	0.0089	0.0081 *
Venus	66181-09-07 04:48 G	25893423.54	25893423.70	25893423.86	0.0089	0.0061
Venus	66182-04-20 18:15 G	25893649.11	25893649.26	25893649.41	0.0089	0.0066
Venus	66182-12-02 07:27 G	25893874.68	25893874.81	25893874.94	0.0089	0.0070
Venus	66183-07-15 20:24 G	25894100.24	25894100.35	25894100.48	0.0089	0.0075
Venus	66184-02-26 09:22 G	25894325.82	25894325.89	25894326.00	0.0089	0.0081
Venus	66184-10-08 22:34 G	25894551.40	25894551.44	25894551.52	0.0089	0.0085

Jupiter	66202-11-12 13:55 G	25901158.60	25901159.08	25901159.63	0.0088	0.0027
Mars	66210-10-26 00:58 G	25904063.26	25904063.54	25904063.85	0.0088	0.0029
Venus	66246-07-10 23:46 G	25917105.45	25917105.49	25917105.56	0.0088	0.0085
Venus	66247-02-21 12:43 G	25917330.95	25917331.03	25917331.12	0.0088	0.0080
Venus	66247-10-05 00:58 G	25917556.46	25917556.54	25917556.68	0.0088	0.0076
Venus	66248-05-17 13:55 G	25917781.97	25917782.08	25917782.22	0.0088	0.0071
Venus	66248-12-29 02:53 G	25918007.48	25918007.62	25918007.76	0.0088	0.0066
Venus	66249-08-11 15:07 G	25918232.99	25918233.13	25918233.30	0.0088	0.0062
Venus	66250-03-25 03:51 G	25918458.51	25918458.66	25918458.84	0.0088	0.0057
Venus	66250-11-05 16:34 G	25918684.03	25918684.19	25918684.38	0.0088	0.0052
Venus	66251-06-19 05:31 G	25918909.55	25918909.73	25918909.92	0.0088	0.0047
Venus	66252-01-30 18:15 G	25919135.07	25919135.26	25919135.46	0.0088	0.0042
Venus	66252-09-12 07:12 G	25919360.60	25919360.80	25919361.00	0.0088	0.0037
Venus	66253-04-25 19:55 G	25919586.12	25919586.33	25919586.53	0.0088	0.0032
Venus	66253-12-07 08:10 G	25919811.65	25919811.84	25919812.07	0.0088	0.0028
Venus	66254-07-20 20:53 G	25920037.17	25920037.37	25920037.60	0.0088	0.0023
Venus	66255-03-03 09:51 G	25920262.70	25920262.91	25920263.13	0.0088	0.0018
Venus	66255-10-14 22:48 G	25920488.23	25920488.45	25920488.67	0.0088	0.0013
Venus	66256-05-27 11:31 G	25920713.76	25920713.98	25920714.20	0.0088	0.0008
Mercury	66256-10-27 12:29 G	25920866.98	25920867.02	25920867.08	0.0088	0.0083
Venus	66257-01-08 00:15 G	25920939.29	25920939.51	25920939.73	0.0088	0.0003
Mercury	66257-01-23 14:53 G	25920955.05	25920955.12	25920955.23	0.0088	0.0074
Mercury	66257-04-21 18:00 G	25921043.13	25921043.25	25921043.37	0.0088	0.0064
Mercury	66257-07-18 20:24 G	25921131.23	25921131.35	25921131.50	0.0088	0.0055
Venus	66257-08-21 12:58 G	25921164.82	25921165.04	25921165.26	0.0088	0.0002
Mercury	66257-10-14 23:03 G	25921219.33	25921219.46	25921219.62	0.0088	0.0046
Mercury	66258-01-11 01:55 G	25921307.43	25921307.58	25921307.74	0.0088	0.0036
Venus	66258-04-04 01:41 G	25921390.35	25921390.57	25921390.79	0.0088	0.0007
Mercury	66258-04-09 04:34 G	25921395.53	25921395.69	25921395.86	0.0088	0.0027
Mercury	66258-07-06 07:27 G	25921483.64	25921483.81	25921483.98	0.0088	0.0017

Mercury	66258-10-02 10:05 G	25921571.75	25921571.92	25921572.10	0.0088	0.0008
Venus	66258-11-15 14:24 G	25921615.88	25921616.10	25921616.32	0.0088	0.0012
Earth	66258-12-28 23:31 G	25921659.44	25921659.48	25921659.59	0.0088	0.0084
Moon	66258-12-29 01:55 G	25921659.52	25921659.58	25921659.68	0.0088	0.0083 *
Mercury	66258-12-29 12:58 G	25921659.86	25921660.04	25921660.21	0.0088	0.0002
Mercury	66259-03-27 15:36 G	25921747.98	25921748.15	25921748.33	0.0088	0.0011
Mercury	66259-06-23 18:15 G	25921836.10	25921836.26	25921836.44	0.0088	0.0021
Venus	66259-06-29 03:07 G	25921841.41	25921841.63	25921841.84	0.0088	0.0017
Mercury	66259-09-19 20:53 G	25921924.22	25921924.37	25921924.55	0.0088	0.0031
Mercury	66259-12-17 00:00 G	25922012.34	25922012.50	25922012.66	0.0088	0.0040
Moon	66259-12-31 08:10 G	25922026.66	25922026.84	25922027.07	0.0088	0.0055
Earth	66259-12-31 11:31 G	25922026.80	25922026.98	25922027.21	0.0088	0.0055 *
Venus	66260-02-09 15:36 G	25922066.94	25922067.15	25922067.37	0.0088	0.0022
Mercury	66260-03-14 02:39 G	25922100.47	25922100.61	25922100.76	0.0088	0.0050
Mercury	66260-06-10 05:17 G	25922188.60	25922188.72	25922188.86	0.0088	0.0060
Mercury	66260-09-06 07:55 G	25922276.74	25922276.83	25922276.96	0.0088	0.0070
Venus	66260-09-22 04:19 G	25922292.48	25922292.68	25922292.90	0.0088	0.0028
Mercury	66260-12-03 11:17 G	25922364.89	25922364.97	25922365.04	0.0088	0.0079
Earth	66261-01-01 23:46 G	25922394.24	25922394.49	25922394.74	0.0088	0.0026
Moon	66261-01-02 02:53 G	25922394.38	25922394.62	25922394.88	0.0088	0.0025 *
Venus	66261-05-05 17:03 G	25922518.01	25922518.21	25922518.42	0.0088	0.0032
Venus	66261-12-17 05:46 G	25922743.55	25922743.74	25922743.94	0.0088	0.0037
Moon	66262-01-04 07:55 G	25922761.57	25922761.83	25922762.09	0.0088	0.0002
Earth	66262-01-04 11:31 G	25922761.72	25922761.98	25922762.24	0.0088	0.0004 *
Venus	66262-07-30 18:15 G	25922969.08	25922969.26	25922969.46	0.0088	0.0042
Earth	66263-01-06 22:48 G	25923129.22	25923129.45	25923129.70	0.0088	0.0033
Moon	66263-01-07 01:55 G	25923129.35	25923129.58	25923129.84	0.0088	0.0034 *
Venus	66263-03-13 06:58 G	25923194.62	25923194.79	25923194.99	0.0088	0.0047
Venus	66263-10-24 19:41 G	25923420.16	25923420.32	25923420.52	0.0088	0.0052
Moon	66264-01-09 08:10 G	25923496.68	25923496.84	25923497.04	0.0088	0.0061

Earth	66264-01-09 10:19 G	25923496.76	25923496.93	25923497.13	0.0088	0.0062 *
Venus	66264-06-06 08:24 G	25923645.70	25923645.85	25923646.04	0.0088	0.0057
Venus	66265-01-17 21:36 G	25923871.24	25923871.40	25923871.56	0.0088	0.0062
Venus	66265-08-31 10:05 G	25924096.79	25924096.92	25924097.07	0.0088	0.0067
Venus	66266-04-13 22:48 G	25924322.34	25924322.45	25924322.59	0.0088	0.0071
Venus	66266-11-25 11:31 G	25924547.89	25924547.98	25924548.11	0.0088	0.0076
Venus	66267-07-09 00:43 G	25924773.45	25924773.53	25924773.62	0.0088	0.0081
Venus	66268-02-19 13:12 G	25924999.01	25924999.05	25924999.12	0.0088	0.0086
Mars	66294-06-02 08:10 G	25934598.64	25934598.84	25934599.10	0.0089	0.0062
Venus	66328-01-14 10:48 G	25946876.90	25946876.95	25946877.00	0.0090	0.0087
Venus	66328-08-26 23:31 G	25947102.42	25947102.48	25947102.59	0.0090	0.0083
Venus	66329-04-09 13:12 G	25947327.96	25947328.05	25947328.18	0.0090	0.0078
Venus	66329-11-21 02:24 G	25947553.50	25947553.60	25947553.75	0.0090	0.0073
Venus	66330-07-04 15:51 G	25947779.04	25947779.16	25947779.32	0.0090	0.0068
Venus	66331-02-15 05:17 G	25948004.58	25948004.72	25948004.90	0.0090	0.0063
Venus	66331-09-28 18:43 G	25948230.13	25948230.28	25948230.47	0.0090	0.0058
Venus	66332-05-11 08:10 G	25948455.68	25948455.84	25948456.03	0.0090	0.0053
Venus	66332-12-22 21:51 G	25948681.23	25948681.41	25948681.60	0.0090	0.0047
Venus	66333-08-05 11:03 G	25948906.77	25948906.96	25948907.16	0.0090	0.0042
Venus	66334-03-19 00:29 G	25949132.33	25949132.52	25949132.73	0.0089	0.0037
Venus	66334-10-30 13:41 G	25949357.88	25949358.07	25949358.29	0.0089	0.0032
Venus	66335-06-13 03:07 G	25949583.43	25949583.63	25949583.85	0.0089	0.0026
Venus	66336-01-24 16:19 G	25949808.98	25949809.18	25949809.40	0.0089	0.0021
Venus	66336-09-06 05:46 G	25950034.53	25950034.74	25950034.96	0.0089	0.0016
Venus	66337-04-19 19:12 G	25950260.09	25950260.30	25950260.52	0.0089	0.0011
Mercury	66337-11-24 10:34 G	25950478.90	25950478.94	25950478.98	0.0089	0.0085
Venus	66337-12-01 08:39 G	25950485.64	25950485.86	25950486.08	0.0089	0.0005
Mercury	66338-02-20 12:00 G	25950566.94	25950567.00	25950567.09	0.0089	0.0077
Mercury	66338-05-19 13:41 G	25950654.99	25950655.07	25950655.18	0.0089	0.0069
Venus	66338-07-14 21:51 G	25950711.19	25950711.41	25950711.63	0.0089	0.0000

Mercury	66338-08-15 15:36 G	25950743.05	25950743.15	25950743.26	0.0089	0.0060
Mercury	66338-11-11 17:17 G	25950831.11	25950831.22	25950831.35	0.0089	0.0051
Mercury	66339-02-07 18:58 G	25950919.17	25950919.29	25950919.43	0.0089	0.0043
Venus	66339-02-25 11:03 G	25950936.74	25950936.96	25950937.18	0.0089	0.0005
Mercury	66339-05-06 20:53 G	25951007.24	25951007.37	25951007.50	0.0089	0.0035
Mercury	66339-08-02 22:34 G	25951095.31	25951095.44	25951095.58	0.0089	0.0026
Venus	66339-10-09 00:29 G	25951162.30	25951162.52	25951162.74	0.0089	0.0010
Mercury	66339-10-30 00:15 G	25951183.37	25951183.51	25951183.65	0.0089	0.0018
Mercury	66340-01-26 01:55 G	25951271.44	25951271.58	25951271.73	0.0089	0.0010
Mercury	66340-04-23 03:36 G	25951359.51	25951359.65	25951359.80	0.0089	0.0003
Venus	66340-05-21 13:55 G	25951387.86	25951388.08	25951388.30	0.0089	0.0016
Earth	66340-06-27 22:48 G	25951425.35	25951425.45	25951425.59	0.0089	0.0079
Moon	66340-06-28 02:10 G	25951425.46	25951425.59	25951425.73	0.0089	0.0075 *
Mercury	66340-07-20 05:17 G	25951447.58	25951447.72	25951447.87	0.0089	0.0007
Mercury	66340-10-16 06:58 G	25951535.65	25951535.79	25951535.93	0.0089	0.0015
Venus	66341-01-02 02:53 G	25951613.42	25951613.62	25951613.85	0.0089	0.0021
Mercury	66341-01-12 08:39 G	25951623.72	25951623.86	25951624.00	0.0089	0.0023
Mercury	66341-04-10 10:19 G	25951711.80	25951711.93	25951712.07	0.0089	0.0031
Moon	66341-06-30 07:12 G	25951792.61	25951792.80	25951793.02	0.0089	0.0053
Earth	66341-06-30 10:48 G	25951792.74	25951792.95	25951793.17	0.0089	0.0049 *
Mercury	66341-07-07 12:00 G	25951799.87	25951800.00	25951800.13	0.0089	0.0039
Venus	66341-08-15 16:19 G	25951838.98	25951839.18	25951839.40	0.0089	0.0026
Mercury	66341-10-03 13:27 G	25951887.95	25951888.06	25951888.19	0.0089	0.0048
Mercury	66341-12-30 15:07 G	25951976.03	25951976.13	25951976.25	0.0089	0.0055
Mercury	66342-03-28 16:48 G	25952064.11	25952064.20	25952064.30	0.0089	0.0063
Venus	66342-03-29 05:46 G	25952064.54	25952064.74	25952064.95	0.0089	0.0031
Mercury	66342-06-24 18:15 G	25952152.19	25952152.26	25952152.36	0.0089	0.0072
Earth	66342-07-02 22:19 G	25952160.19	25952160.43	25952160.69	0.0089	0.0019
Moon	66342-07-03 01:55 G	25952160.33	25952160.58	25952160.83	0.0089	0.0016 *
Mercury	66342-09-20 19:55 G	25952240.28	25952240.33	25952240.40	0.0089	0.0079

Venus	66342-11-09 19:12 G	25952290.10	25952290.30	25952290.51	0.0089	0.0036
Mercury	66342-12-17 21:36 G	25952328.38	25952328.40	25952328.44	0.0089	0.0087
Venus	66343-06-23 08:39 G	25952515.67	25952515.86	25952516.06	0.0089	0.0042
Moon	66343-07-05 06:58 G	25952527.54	25952527.79	25952528.04	0.0089	0.0008
Earth	66343-07-05 10:19 G	25952527.67	25952527.93	25952528.18	0.0089	0.0011 *
Venus	66344-02-03 21:36 G	25952741.23	25952741.40	25952741.60	0.0089	0.0047
Earth	66344-07-06 21:36 G	25952895.19	25952895.40	25952895.64	0.0089	0.0041
Moon	66344-07-07 00:00 G	25952895.29	25952895.50	25952895.74	0.0089	0.0045 *
Venus	66344-09-16 10:48 G	25952966.79	25952966.95	25952967.15	0.0089	0.0053
Venus	66345-04-30 00:15 G	25953192.36	25953192.51	25953192.70	0.0089	0.0058
Moon	66345-07-09 07:27 G	25953262.66	25953262.81	25953262.98	0.0089	0.0069
Earth	66345-07-09 08:53 G	25953262.74	25953262.87	25953263.05	0.0089	0.0072 *
Venus	66345-12-11 13:41 G	25953417.93	25953418.07	25953418.25	0.0089	0.0062
Venus	66346-07-25 02:53 G	25953643.50	25953643.62	25953643.78	0.0089	0.0067
Venus	66347-03-07 16:05 G	25953869.07	25953869.17	25953869.32	0.0089	0.0072
Venus	66347-10-19 05:17 G	25954094.64	25954094.72	25954094.86	0.0089	0.0078
Venus	66348-05-31 18:43 G	25954320.22	25954320.28	25954320.39	0.0089	0.0082
Venus	66349-01-12 08:24 G	25954545.81	25954545.85	25954545.91	0.0089	0.0086
Jupiter	66369-01-08 06:58 G	25961846.38	25961846.79	25961847.27	0.0088	0.0050
Mars	66374-06-10 14:24 G	25963825.83	25963826.10	25963826.41	0.0088	0.0034
Venus	66410-10-13 09:22 G	25977099.84	25977099.89	25977099.95	0.0088	0.0084
Venus	66411-05-26 21:36 G	25977325.33	25977325.40	25977325.51	0.0088	0.0080
Venus	66412-01-07 10:34 G	25977550.84	25977550.94	25977551.06	0.0088	0.0075
Venus	66412-08-19 23:31 G	25977776.35	25977776.48	25977776.61	0.0088	0.0070
Venus	66413-04-02 11:46 G	25978001.86	25978001.99	25978002.16	0.0088	0.0066
Venus	66413-11-14 00:29 G	25978227.38	25978227.52	25978227.70	0.0088	0.0061
Venus	66414-06-27 13:12 G	25978452.89	25978453.05	25978453.23	0.0088	0.0056
Venus	66415-02-08 01:55 G	25978678.41	25978678.58	25978678.77	0.0088	0.0051
Venus	66415-09-21 14:53 G	25978903.94	25978904.12	25978904.31	0.0088	0.0046
Venus	66416-05-04 03:22 G	25979129.46	25979129.64	25979129.85	0.0088	0.0042

Venus	66416-12-15 16:05 G	25979354.98	25979355.17	25979355.38	0.0088	0.0037
Venus	66417-07-29 04:34 G	25979580.50	25979580.69	25979580.91	0.0088	0.0032
Venus	66418-03-11 17:31 G	25979806.03	25979806.23	25979806.45	0.0088	0.0027
Venus	66418-10-23 06:15 G	25980031.56	25980031.76	25980031.99	0.0088	0.0022
Venus	66419-06-05 19:12 G	25980257.09	25980257.30	25980257.52	0.0088	0.0017
Venus	66420-01-17 07:55 G	25980482.62	25980482.83	25980483.05	0.0088	0.0012
Venus	66420-08-29 20:39 G	25980708.14	25980708.36	25980708.58	0.0088	0.0007
Venus	66421-04-12 09:36 G	25980933.68	25980933.90	25980934.12	0.0088	0.0002
Mercury	66421-07-25 10:48 G	25981037.88	25981037.95	25981038.02	0.0088	0.0079
Mercury	66421-10-21 13:27 G	25981125.96	25981126.06	25981126.17	0.0088	0.0070
Venus	66421-11-23 22:19 G	25981159.21	25981159.43	25981159.65	0.0088	0.0004
Mercury	66422-01-17 15:51 G	25981214.05	25981214.16	25981214.30	0.0088	0.0061
Mercury	66422-04-15 18:29 G	25981302.14	25981302.27	25981302.42	0.0088	0.0052
Venus	66422-07-07 10:48 G	25981384.74	25981384.95	25981385.18	0.0088	0.0009
Mercury	66422-07-12 21:22 G	25981390.24	25981390.39	25981390.55	0.0088	0.0042
Mercury	66422-10-09 00:00 G	25981478.35	25981478.50	25981478.67	0.0088	0.0033
Mercury	66423-01-05 02:53 G	25981566.45	25981566.62	25981566.79	0.0088	0.0023
Venus	66423-02-17 23:31 G	25981610.27	25981610.48	25981610.70	0.0088	0.0014
Mercury	66423-04-03 05:31 G	25981654.56	25981654.73	25981654.90	0.0088	0.0014
Mercury	66423-06-30 08:10 G	25981742.67	25981742.84	25981743.02	0.0088	0.0005
Mercury	66423-09-26 11:03 G	25981830.78	25981830.96	25981831.13	0.0088	0.0005
Venus	66423-10-01 12:15 G	25981835.81	25981836.01	25981836.24	0.0088	0.0019
Mercury	66423-12-23 13:41 G	25981918.90	25981919.07	25981919.25	0.0088	0.0015
Earth	66423-12-31 17:46 G	25981927.10	25981927.24	25981927.42	0.0088	0.0069
Moon	66423-12-31 21:36 G	25981927.28	25981927.40	25981927.56	0.0088	0.0074 *
Mercury	66424-03-20 16:34 G	25982007.02	25982007.19	25982007.36	0.0088	0.0024
Venus	66424-05-14 00:58 G	25982061.34	25982061.54	25982061.76	0.0088	0.0024
Mercury	66424-06-16 19:12 G	25982095.14	25982095.30	25982095.47	0.0088	0.0034
Mercury	66424-09-12 21:51 G	25982183.27	25982183.41	25982183.57	0.0088	0.0044
Mercury	66424-12-10 00:58 G	25982271.40	25982271.54	25982271.68	0.0088	0.0054

Venus	66424-12-25 13:27 G	25982286.87	25982287.06	25982287.28	0.0088	0.0029
Moon	66425-01-02 02:24 G	25982294.39	25982294.60	25982294.85	0.0088	0.0036
Earth	66425-01-02 05:46 G	25982294.52	25982294.74	25982294.98	0.0088	0.0040 *
Mercury	66425-03-08 03:22 G	25982359.53	25982359.64	25982359.77	0.0088	0.0063
Mercury	66425-06-04 06:15 G	25982447.67	25982447.76	25982447.87	0.0088	0.0073
Venus	66425-08-08 02:10 G	25982512.40	25982512.59	25982512.81	0.0088	0.0034
Mercury	66425-08-31 08:53 G	25982535.83	25982535.87	25982535.94	0.0088	0.0083
Earth	66426-01-04 17:31 G	25982661.98	25982662.23	25982662.49	0.0088	0.0011
Moon	66426-01-04 20:24 G	25982662.10	25982662.35	25982662.62	0.0088	0.0016 *
Venus	66426-03-21 15:07 G	25982737.93	25982738.13	25982738.33	0.0088	0.0038
Venus	66426-11-02 03:51 G	25982963.47	25982963.66	25982963.86	0.0088	0.0043
Moon	66427-01-07 03:07 G	25983029.40	25983029.63	25983029.89	0.0088	0.0023
Earth	66427-01-07 05:03 G	25983029.46	25983029.71	25983029.97	0.0088	0.0018 *
Venus	66427-06-15 16:19 G	25983189.01	25983189.18	25983189.38	0.0088	0.0049
Earth	66428-01-09 16:34 G	25983396.98	25983397.19	25983397.42	0.0088	0.0047
Moon	66428-01-09 17:03 G	25983396.98	25983397.21	25983397.45	0.0088	0.0043 *
Venus	66428-01-27 05:03 G	25983414.55	25983414.71	25983414.90	0.0088	0.0053
Venus	66428-09-08 17:31 G	25983640.09	25983640.23	25983640.41	0.0088	0.0059
Earth	66429-01-11 04:05 G	25983764.56	25983764.67	25983764.82	0.0088	0.0076
Moon	66429-01-11 04:48 G	25983764.61	25983764.70	25983764.81	0.0088	0.0081 *
Venus	66429-04-22 06:15 G	25983865.63	25983865.76	25983865.93	0.0088	0.0063
Venus	66429-12-03 18:58 G	25984091.17	25984091.29	25984091.45	0.0088	0.0068
Venus	66430-07-17 07:55 G	25984316.72	25984316.83	25984316.96	0.0088	0.0073
Venus	66431-02-27 20:24 G	25984542.27	25984542.35	25984542.48	0.0088	0.0078
Venus	66431-10-11 09:07 G	25984767.83	25984767.88	25984767.99	0.0088	0.0083
Venus	66432-05-23 22:19 G	25984993.40	25984993.43	25984993.48	0.0088	0.0087
Mars	66458-01-15 16:48 G	25994360.89	25994361.20	25994361.51	0.0089	0.0005
Venus	66492-04-16 18:58 G	26006871.26	26006871.29	26006871.37	0.0090	0.0087
Venus	66492-11-28 08:24 G	26007096.78	26007096.85	26007096.95	0.0090	0.0082
Venus	66493-07-11 21:51 G	26007322.31	26007322.41	26007322.53	0.0090	0.0077



Venus	66494-02-22 11:17 G	26007547.85	26007547.97	26007548.11	0.0090	0.0072
Venus	66494-10-06 00:29 G	26007773.39	26007773.52	26007773.68	0.0090	0.0067
Venus	66495-05-19 13:55 G	26007998.93	26007999.08	26007999.25	0.0090	0.0062
Venus	66495-12-31 03:07 G	26008224.48	26008224.63	26008224.82	0.0090	0.0057
Venus	66496-08-12 16:34 G	26008450.03	26008450.19	26008450.38	0.0090	0.0052
Venus	66497-03-26 06:00 G	26008675.58	26008675.75	26008675.96	0.0090	0.0047
Venus	66497-11-06 19:27 G	26008901.13	26008901.31	26008901.52	0.0090	0.0042
Venus	66498-06-20 09:07 G	26009126.68	26009126.88	26009127.08	0.0090	0.0036
Venus	66499-01-31 22:19 G	26009352.23	26009352.43	26009352.64	0.0090	0.0031
Venus	66499-09-14 11:46 G	26009577.78	26009577.99	26009578.20	0.0089	0.0025
Venus	66500-04-28 00:58 G	26009803.34	26009803.54	26009803.77	0.0089	0.0021
Venus	66500-12-09 14:39 G	26010028.89	26010029.11	26010029.33	0.0089	0.0015
Venus	66501-07-23 03:51 G	26010254.44	26010254.66	26010254.88	0.0089	0.0010
Venus	66502-03-05 17:17 G	26010480.00	26010480.22	26010480.44	0.0089	0.0004
Mercury	66502-08-22 09:36 G	26010649.84	26010649.90	26010649.95	0.0089	0.0082
Venus	66502-10-17 06:29 G	26010705.55	26010705.77	26010705.99	0.0089	0.0001
Mercury	66502-11-18 11:03 G	26010737.89	26010737.96	26010738.05	0.0089	0.0074
Mercury	66503-02-14 12:43 G	26010825.94	26010826.03	26010826.14	0.0089	0.0065
Mercury	66503-05-13 14:39 G	26010914.00	26010914.11	26010914.22	0.0089	0.0057
Venus	66503-05-30 19:55 G	26010931.11	26010931.33	26010931.55	0.0089	0.0006
Mercury	66503-08-09 16:19 G	26011002.06	26011002.18	26011002.31	0.0089	0.0048
Mercury	66503-11-05 18:00 G	26011090.13	26011090.25	26011090.39	0.0089	0.0040
Venus	66504-01-11 09:07 G	26011156.66	26011156.88	26011157.10	0.0089	0.0011
Mercury	66504-02-01 19:55 G	26011178.19	26011178.33	26011178.46	0.0089	0.0032
Mercury	66504-04-29 21:36 G	26011266.26	26011266.40	26011266.54	0.0089	0.0023
Mercury	66504-07-26 23:17 G	26011354.33	26011354.47	26011354.61	0.0089	0.0015
Venus	66504-08-23 22:19 G	26011382.22	26011382.43	26011382.65	0.0089	0.0017
Mercury	66504-10-23 00:58 G	26011442.40	26011442.54	26011442.68	0.0089	0.0007
Mercury	66505-01-19 02:39 G	26011530.47	26011530.61	26011530.76	0.0089	0.0002
Venus	66505-04-06 11:31 G	26011607.78	26011607.98	26011608.20	0.0089	0.0022

Mercury	66505-04-17 04:19 G	26011618.54	26011618.68	26011618.82	0.0089	0.0010
Earth	66505-06-30 16:48 G	26011693.05	26011693.20	26011693.40	0.0089	0.0065
Moon	66505-06-30 20:39 G	26011693.18	26011693.36	26011693.55	0.0089	0.0062 *
Mercury	66505-07-14 06:00 G	26011706.61	26011706.75	26011706.89	0.0089	0.0018
Mercury	66505-10-10 07:41 G	26011794.68	26011794.82	26011794.96	0.0089	0.0026
Venus	66505-11-18 00:43 G	26011833.34	26011833.53	26011833.76	0.0089	0.0028
Mercury	66506-01-06 09:07 G	26011882.76	26011882.88	26011883.02	0.0089	0.0035
Mercury	66506-04-04 10:48 G	26011970.83	26011970.95	26011971.08	0.0089	0.0042
Venus	66506-07-01 14:10 G	26012058.89	26012059.09	26012059.30	0.0089	0.0032
Mercury	66506-07-01 12:29 G	26012058.91	26012059.02	26012059.14	0.0089	0.0050 *
Moon	66506-07-03 01:41 G	26012060.36	26012060.57	26012060.82	0.0089	0.0037
Earth	66506-07-03 04:34 G	26012060.47	26012060.69	26012060.95	0.0089	0.0035 *
Mercury	66506-09-27 14:10 G	26012146.99	26012147.09	26012147.20	0.0089	0.0058
Mercury	66506-12-24 15:36 G	26012235.07	26012235.15	26012235.26	0.0089	0.0067
Venus	66507-02-12 03:22 G	26012284.45	26012284.64	26012284.85	0.0089	0.0038
Mercury	66507-03-22 17:17 G	26012323.16	26012323.22	26012323.31	0.0089	0.0074
Mercury	66507-06-18 18:43 G	26012411.25	26012411.28	26012411.35	0.0089	0.0083
Earth	66507-07-05 16:34 G	26012427.93	26012428.19	26012428.45	0.0089	0.0004
Moon	66507-07-05 18:58 G	26012428.02	26012428.29	26012428.55	0.0089	0.0002 *
Venus	66507-09-25 16:48 G	26012510.01	26012510.20	26012510.40	0.0089	0.0043
Venus	66508-05-08 06:00 G	26012735.58	26012735.75	26012735.95	0.0089	0.0048
Moon	66508-07-07 03:22 G	26012795.40	26012795.64	26012795.88	0.0089	0.0023
Earth	66508-07-07 03:36 G	26012795.42	26012795.65	26012795.91	0.0089	0.0027 *
Venus	66508-12-19 19:27 G	26012961.15	26012961.31	26012961.50	0.0089	0.0053
Moon	66509-07-09 15:07 G	26013162.95	26013163.13	26013163.35	0.0089	0.0059
Earth	66509-07-09 15:36 G	26013162.96	26013163.15	26013163.36	0.0089	0.0056 *
Venus	66509-08-02 08:39 G	26013186.71	26013186.86	26013187.04	0.0089	0.0058
Venus	66510-03-15 22:05 G	26013412.28	26013412.42	26013412.59	0.0089	0.0063
Earth	66510-07-12 03:07 G	26013530.57	26013530.63	26013530.71	0.0089	0.0085
Moon	66510-07-12 04:34 G	26013530.61	26013530.69	26013530.79	0.0089	0.0082 *

Venus	66510-10-27 11:17 G	26013637.85	26013637.97	26013638.13	0.0089	0.0069
Venus	66511-06-10 00:43 G	26013863.43	26013863.53	26013863.67	0.0089	0.0073
Venus	66512-01-21 13:55 G	26014089.00	26014089.08	26014089.21	0.0089	0.0079
Venus	66512-09-03 03:07 G	26014314.58	26014314.63	26014314.74	0.0089	0.0083
Venus	66513-04-16 16:34 G	26014540.18	26014540.19	26014540.25	0.0089	0.0088
Jupiter	66535-03-10 02:24 G	26022537.33	26022537.60	26022537.94	0.0088	0.0073
Mars	66539-12-19 19:55 G	26024283.08	26024283.33	26024283.59	0.0088	0.0050
Venus	66575-01-15 18:00 G	26037094.20	26037094.25	26037094.33	0.0088	0.0084
Venus	66575-08-29 06:58 G	26037319.71	26037319.79	26037319.90	0.0088	0.0079
Venus	66576-04-10 19:55 G	26037545.22	26037545.33	26037545.45	0.0088	0.0074
Venus	66576-11-22 08:10 G	26037770.73	26037770.84	26037770.99	0.0088	0.0070
Venus	66577-07-05 20:53 G	26037996.24	26037996.37	26037996.53	0.0088	0.0065
Venus	66578-02-16 09:36 G	26038221.75	26038221.90	26038222.07	0.0088	0.0060
Venus	66578-09-29 22:34 G	26038447.28	26038447.44	26038447.62	0.0088	0.0055
Venus	66579-05-13 10:48 G	26038672.79	26038672.95	26038673.15	0.0088	0.0051
Venus	66579-12-24 23:31 G	26038898.31	26038898.48	26038898.69	0.0088	0.0046
Venus	66580-08-06 12:15 G	26039123.83	26039124.01	26039124.22	0.0088	0.0041
Venus	66581-03-20 00:58 G	26039349.35	26039349.54	26039349.75	0.0088	0.0036
Venus	66581-10-31 13:41 G	26039574.87	26039575.07	26039575.29	0.0088	0.0031
Venus	66582-06-14 02:24 G	26039800.40	26039800.60	26039800.82	0.0088	0.0026
Venus	66583-01-25 15:07 G	26040025.92	26040026.13	26040026.35	0.0088	0.0021
Venus	66583-09-08 03:51 G	26040251.45	26040251.66	26040251.88	0.0088	0.0016
Venus	66584-04-20 16:34 G	26040476.98	26040477.19	26040477.42	0.0088	0.0011
Venus	66584-12-02 05:17 G	26040702.51	26040702.72	26040702.95	0.0088	0.0006
Venus	66585-07-15 18:00 G	26040928.03	26040928.25	26040928.47	0.0088	0.0002
Mercury	66586-01-24 05:46 G	26041120.72	26041120.74	26041120.79	0.0088	0.0086
Venus	66586-02-26 06:43 G	26041153.56	26041153.78	26041154.00	0.0088	0.0005
Mercury	66586-04-22 08:24 G	26041208.78	26041208.85	26041208.95	0.0088	0.0077
Mercury	66586-07-19 11:17 G	26041296.87	26041296.97	26041297.08	0.0088	0.0067
Venus	66586-10-09 19:27 G	26041379.10	26041379.31	26041379.54	0.0088	0.0010

Mercury	66586-10-15 13:55 G	26041384.96	26041385.08	26041385.21	0.0088	0.0058
Mercury	66587-01-11 16:19 G	26041473.05	26041473.18	26041473.34	0.0088	0.0049
Mercury	66587-04-09 18:58 G	26041561.15	26041561.29	26041561.46	0.0088	0.0040
Venus	66587-05-23 08:10 G	26041604.63	26041604.84	26041605.07	0.0088	0.0015
Mercury	66587-07-06 21:51 G	26041649.25	26041649.41	26041649.58	0.0088	0.0030
Mercury	66587-10-03 00:29 G	26041737.36	26041737.52	26041737.70	0.0088	0.0021
Mercury	66587-12-30 03:22 G	26041825.47	26041825.64	26041825.82	0.0088	0.0011
Moon	66587-12-31 19:55 G	26041827.28	26041827.33	26041827.41	0.0088	0.0085
Earth	66587-12-31 23:03 G	26041827.41	26041827.46	26041827.55	0.0088	0.0084 *
Venus	66588-01-03 20:53 G	26041830.17	26041830.37	26041830.60	0.0088	0.0020
Mercury	66588-03-27 06:00 G	26041913.58	26041913.75	26041913.93	0.0088	0.0003
Mercury	66588-06-23 08:53 G	26042001.69	26042001.87	26042002.04	0.0088	0.0008
Venus	66588-08-16 09:36 G	26042055.70	26042055.90	26042056.12	0.0088	0.0025
Mercury	66588-09-19 11:17 G	26042089.81	26042089.97	26042090.15	0.0088	0.0018
Mercury	66588-12-16 14:10 G	26042177.93	26042178.09	26042178.26	0.0088	0.0027
Earth	66589-01-02 11:03 G	26042194.77	26042194.96	26042195.17	0.0088	0.0055
Moon	66589-01-02 12:58 G	26042194.85	26042195.04	26042195.27	0.0088	0.0054 *
Mercury	66589-03-14 16:48 G	26042266.05	26042266.20	26042266.37	0.0088	0.0037
Venus	66589-03-29 22:34 G	26042281.23	26042281.44	26042281.65	0.0088	0.0029
Mercury	66589-06-10 19:55 G	26042354.18	26042354.33	26042354.48	0.0088	0.0046
Mercury	66589-09-06 22:34 G	26042442.31	26042442.44	26042442.58	0.0088	0.0056
Venus	66589-11-10 11:17 G	26042506.77	26042506.97	26042507.18	0.0088	0.0034
Mercury	66589-12-04 01:12 G	26042530.44	26042530.55	26042530.68	0.0088	0.0066
Moon	66590-01-04 21:22 G	26042562.17	26042562.39	26042562.65	0.0088	0.0027
Earth	66590-01-04 22:48 G	26042562.21	26042562.45	26042562.71	0.0088	0.0026 *
Mercury	66590-03-02 03:51 G	26042618.59	26042618.66	26042618.77	0.0088	0.0076
Mercury	66590-05-29 06:58 G	26042706.76	26042706.79	26042706.83	0.0088	0.0086
Venus	66590-06-24 00:00 G	26042732.31	26042732.50	26042732.70	0.0088	0.0039
Moon	66591-01-07 10:48 G	26042929.68	26042929.95	26042930.22	0.0088	0.0003
Earth	66591-01-07 10:48 G	26042929.69	26042929.95	26042930.21	0.0088	0.0003 *

Venus	66591-02-04 12:43 G	26042957.84	26042958.03	26042958.22	0.0088	0.0044
Venus	66591-09-18 01:12 G	26043183.38	26043183.55	26043183.74	0.0088	0.0050
Earth	66592-01-09 22:05 G	26043297.19	26043297.42	26043297.67	0.0088	0.0032
Moon	66592-01-09 23:46 G	26043297.26	26043297.49	26043297.74	0.0088	0.0031 *
Venus	66592-04-30 13:55 G	26043408.92	26043409.08	26043409.26	0.0088	0.0054
Venus	66592-12-12 02:24 G	26043634.46	26043634.60	26043634.78	0.0088	0.0060
Moon	66593-01-11 07:27 G	26043664.64	26043664.81	26043665.02	0.0088	0.0061
Earth	66593-01-11 09:36 G	26043664.74	26043664.90	26043665.11	0.0088	0.0061 *
Venus	66593-07-25 15:07 G	26043860.00	26043860.13	26043860.30	0.0088	0.0064
Venus	66594-03-08 03:36 G	26044085.54	26044085.65	26044085.81	0.0088	0.0069
Venus	66594-10-19 17:03 G	26044311.09	26044311.21	26044311.33	0.0088	0.0074
Venus	66595-06-02 05:31 G	26044536.64	26044536.73	26044536.84	0.0088	0.0078
Venus	66596-01-13 18:00 G	26044762.20	26044762.25	26044762.34	0.0088	0.0083
Venus	66596-08-26 07:12 G	26044987.78	26044987.80	26044987.82	0.0088	0.0088
Mars	66621-08-31 23:17 G	26054123.32	26054123.47	26054123.67	0.0089	0.0074
Mars	66623-07-27 19:12 G	26054818.18	26054818.30	26054818.48	0.0089	0.0078
Venus	66656-07-21 02:39 G	26066865.58	26066865.61	26066865.69	0.0090	0.0087
Venus	66657-03-03 16:05 G	26067091.11	26067091.17	26067091.29	0.0090	0.0082
Venus	66657-10-15 05:31 G	26067316.64	26067316.73	26067316.86	0.0090	0.0077
Venus	66658-05-28 18:58 G	26067542.18	26067542.29	26067542.44	0.0090	0.0072
Venus	66659-01-09 08:10 G	26067767.71	26067767.84	26067768.00	0.0090	0.0067
Venus	66659-08-22 21:36 G	26067993.26	26067993.40	26067993.57	0.0090	0.0062
Venus	66660-04-04 11:03 G	26068218.81	26068218.96	26068219.15	0.0090	0.0057
Venus	66660-11-16 00:15 G	26068444.35	26068444.51	26068444.71	0.0090	0.0052
Venus	66661-06-29 13:55 G	26068669.90	26068670.08	26068670.28	0.0090	0.0046
Venus	66662-02-10 03:22 G	26068895.45	26068895.64	26068895.84	0.0090	0.0041
Venus	66662-09-23 16:34 G	26069121.00	26069121.19	26069121.41	0.0090	0.0036
Venus	66663-05-07 06:00 G	26069346.56	26069346.75	26069346.97	0.0090	0.0031
Venus	66663-12-18 19:41 G	26069572.11	26069572.32	26069572.54	0.0089	0.0025
Venus	66664-07-31 09:07 G	26069797.67	26069797.88	26069798.10	0.0089	0.0020

Venus	66665-03-13 22:34 G	26070023.22	26070023.44	26070023.66	0.0089	0.0014
Venus	66665-10-25 12:00 G	26070248.78	26070249.00	26070249.22	0.0089	0.0009
Venus	66666-06-08 01:12 G	26070474.34	26070474.55	26070474.78	0.0089	0.0004
Venus	66667-01-19 14:39 G	26070699.89	26070700.11	26070700.33	0.0089	0.0002
Mercury	66667-02-21 06:29 G	26070732.75	26070732.77	26070732.79	0.0089	0.0088
Mercury	66667-05-20 07:55 G	26070820.78	26070820.83	26070820.91	0.0089	0.0080
Mercury	66667-08-16 09:36 G	26070908.83	26070908.90	26070909.00	0.0089	0.0072
Venus	66667-09-02 03:51 G	26070925.45	26070925.66	26070925.88	0.0089	0.0007
Mercury	66667-11-12 11:31 G	26070996.89	26070996.98	26070997.09	0.0089	0.0063
Mercury	66668-02-08 13:12 G	26071084.95	26071085.05	26071085.18	0.0089	0.0055
Venus	66668-04-14 17:17 G	26071151.01	26071151.22	26071151.44	0.0089	0.0012
Mercury	66668-05-06 15:07 G	26071173.01	26071173.13	26071173.26	0.0089	0.0046
Mercury	66668-08-02 16:48 G	26071261.08	26071261.20	26071261.34	0.0089	0.0038
Mercury	66668-10-29 18:29 G	26071349.14	26071349.27	26071349.42	0.0089	0.0030
Venus	66668-11-26 06:43 G	26071376.56	26071376.78	26071377.00	0.0089	0.0018
Mercury	66669-01-25 20:24 G	26071437.21	26071437.35	26071437.49	0.0089	0.0021
Mercury	66669-04-23 22:05 G	26071525.28	26071525.42	26071525.57	0.0089	0.0013
Moon	66669-06-30 21:07 G	26071593.26	26071593.38	26071593.53	0.0089	0.0075
Earth	66669-06-30 23:03 G	26071593.37	26071593.46	26071593.60	0.0089	0.0080 *
Venus	66669-07-09 19:55 G	26071602.12	26071602.33	26071602.55	0.0089	0.0023
Mercury	66669-07-20 23:46 G	26071613.35	26071613.49	26071613.64	0.0089	0.0005
Mercury	66669-10-17 01:27 G	26071701.42	26071701.56	26071701.71	0.0089	0.0005
Mercury	66670-01-13 03:07 G	26071789.49	26071789.63	26071789.78	0.0089	0.0013
Venus	66670-02-20 08:53 G	26071827.68	26071827.87	26071828.09	0.0089	0.0029
Mercury	66670-04-11 04:48 G	26071877.57	26071877.70	26071877.85	0.0089	0.0021
Earth	66670-07-03 10:48 G	26071960.75	26071960.95	26071961.18	0.0089	0.0050
Moon	66670-07-03 12:15 G	26071960.82	26071961.01	26071961.24	0.0089	0.0054 *
Mercury	66670-07-08 06:29 G	26071965.64	26071965.77	26071965.91	0.0089	0.0029
Venus	66670-10-03 22:19 G	26072053.24	26072053.43	26072053.65	0.0089	0.0034
Mercury	66670-10-04 08:10 G	26072053.71	26072053.84	26072053.97	0.0089	0.0037

Mercury	66670-12-31 09:51 G	26072141.79	26072141.91	26072142.04	0.0089	0.0045
Mercury	66671-03-29 11:31 G	26072229.87	26072229.98	26072230.10	0.0089	0.0053
Venus	66671-05-17 11:46 G	26072278.80	26072278.99	26072279.20	0.0089	0.0039
Mercury	66671-06-25 13:12 G	26072317.95	26072318.05	26072318.16	0.0089	0.0061
Moon	66671-07-05 22:05 G	26072328.17	26072328.42	26072328.66	0.0089	0.0016
Earth	66671-07-05 22:34 G	26072328.19	26072328.44	26072328.69	0.0089	0.0020 *
Mercury	66671-09-21 14:53 G	26072406.03	26072406.12	26072406.21	0.0089	0.0069
Mercury	66671-12-18 16:19 G	26072494.12	26072494.18	26072494.26	0.0089	0.0077
Venus	66671-12-29 01:12 G	26072504.36	26072504.55	26072504.75	0.0089	0.0044
Mercury	66672-03-15 18:00 G	26072582.21	26072582.25	26072582.30	0.0089	0.0085
Moon	66672-07-07 08:53 G	26072695.61	26072695.87	26072696.13	0.0089	0.0006
Earth	66672-07-07 10:05 G	26072695.67	26072695.92	26072696.18	0.0089	0.0010 *
Venus	66672-08-10 14:10 G	26072729.92	26072730.09	26072730.29	0.0089	0.0049
Venus	66673-03-24 03:36 G	26072955.49	26072955.65	26072955.84	0.0089	0.0054
Earth	66673-07-09 21:07 G	26073063.17	26073063.38	26073063.63	0.0089	0.0041
Moon	66673-07-09 23:03 G	26073063.27	26073063.46	26073063.70	0.0089	0.0045 *
Venus	66673-11-04 16:48 G	26073181.06	26073181.20	26073181.38	0.0089	0.0060
Venus	66674-06-18 06:15 G	26073406.63	26073406.76	26073406.93	0.0089	0.0065
Moon	66674-07-12 06:00 G	26073430.59	26073430.75	26073430.94	0.0089	0.0066
Earth	66674-07-12 08:39 G	26073430.73	26073430.86	26073431.05	0.0089	0.0070 *
Venus	66675-01-29 19:41 G	26073632.19	26073632.32	26073632.47	0.0089	0.0069
Venus	66675-09-12 08:53 G	26073857.77	26073857.87	26073858.01	0.0089	0.0075
Venus	66676-04-24 22:19 G	26074083.35	26074083.43	26074083.55	0.0089	0.0079
Venus	66676-12-06 11:31 G	26074308.93	26074308.98	26074309.08	0.0089	0.0085
Venus	66677-07-20 01:12 G	26074534.55	26074534.55	26074534.57	0.0089	0.0089
Mars	66703-08-05 06:15 G	26084045.45	26084045.76	26084046.08	0.0088	0.0013
Venus	66739-04-21 03:22 G	26097088.57	26097088.64	26097088.71	0.0088	0.0083
Venus	66739-12-02 15:22 G	26097314.07	26097314.14	26097314.26	0.0088	0.0079
Venus	66740-07-15 04:19 G	26097539.58	26097539.68	26097539.81	0.0088	0.0074
Venus	66741-02-25 17:17 G	26097765.09	26097765.22	26097765.36	0.0088	0.0069

Venus	66741-10-09 05:46 G	26097990.61	26097990.74	26097990.91	0.0088	0.0065
Venus	66742-05-22 18:29 G	26098216.13	26098216.27	26098216.45	0.0088	0.0060
Venus	66743-01-03 07:12 G	26098441.65	26098441.80	26098441.99	0.0088	0.0055
Venus	66743-08-16 19:55 G	26098667.16	26098667.33	26098667.53	0.0088	0.0050
Venus	66744-03-29 08:39 G	26098892.68	26098892.86	26098893.06	0.0088	0.0045
Venus	66744-11-09 21:22 G	26099118.21	26099118.39	26099118.60	0.0088	0.0040
Venus	66745-06-23 10:05 G	26099343.73	26099343.92	26099344.13	0.0088	0.0035
Venus	66746-02-03 22:48 G	26099569.25	26099569.45	26099569.66	0.0088	0.0030
Venus	66746-09-17 11:31 G	26099794.77	26099794.98	26099795.20	0.0088	0.0025
Venus	66747-05-01 00:15 G	26100020.30	26100020.51	26100020.73	0.0088	0.0020
Venus	66747-12-12 12:43 G	26100245.82	26100246.03	26100246.25	0.0088	0.0015
Venus	66748-07-25 01:27 G	26100471.34	26100471.56	26100471.78	0.0088	0.0010
Venus	66749-03-07 14:10 G	26100696.87	26100697.09	26100697.31	0.0088	0.0005
Venus	66749-10-19 02:53 G	26100922.40	26100922.62	26100922.85	0.0088	0.0002
Venus	66750-06-01 15:36 G	26101147.93	26101148.15	26101148.37	0.0088	0.0005
Mercury	66750-10-23 03:51 G	26101291.62	26101291.66	26101291.73	0.0088	0.0083
Venus	66751-01-13 04:19 G	26101373.46	26101373.68	26101373.90	0.0088	0.0010
Mercury	66751-01-19 06:29 G	26101379.69	26101379.77	26101379.87	0.0088	0.0074
Mercury	66751-04-17 08:53 G	26101467.77	26101467.87	26101468.00	0.0088	0.0065
Mercury	66751-07-14 12:00 G	26101555.87	26101556.00	26101556.13	0.0088	0.0055
Venus	66751-08-26 17:03 G	26101598.99	26101599.21	26101599.43	0.0088	0.0015
Mercury	66751-10-10 14:24 G	26101643.96	26101644.10	26101644.25	0.0088	0.0046
Mercury	66752-01-06 17:03 G	26101732.06	26101732.21	26101732.38	0.0088	0.0037
Mercury	66752-04-03 19:55 G	26101820.16	26101820.33	26101820.49	0.0088	0.0027
Venus	66752-04-08 05:46 G	26101824.52	26101824.74	26101824.95	0.0088	0.0020
Mercury	66752-06-30 22:34 G	26101908.27	26101908.44	26101908.61	0.0088	0.0018
Mercury	66752-09-27 01:12 G	26101996.38	26101996.55	26101996.73	0.0088	0.0009
Venus	66752-11-19 18:15 G	26102050.06	26102050.26	26102050.48	0.0088	0.0026
Mercury	66752-12-24 03:51 G	26102084.49	26102084.66	26102084.84	0.0088	0.0002
Earth	66753-01-03 16:05 G	26102095.03	26102095.17	26102095.34	0.0088	0.0070



Moon	66753-01-03 15:36 G	26102095.04	26102095.15	26102095.31	0.0088	0.0075 *
Mercury	66753-03-22 06:29 G	26102172.60	26102172.77	26102172.95	0.0088	0.0011
Mercury	66753-06-18 09:22 G	26102260.72	26102260.89	26102261.06	0.0088	0.0020
Venus	66753-07-03 06:58 G	26102275.59	26102275.79	26102276.01	0.0088	0.0031
Mercury	66753-09-14 12:00 G	26102348.84	26102349.00	26102349.17	0.0088	0.0030
Mercury	66753-12-11 14:53 G	26102436.96	26102437.12	26102437.28	0.0088	0.0039
Moon	66754-01-06 03:22 G	26102462.39	26102462.64	26102462.88	0.0088	0.0037
Earth	66754-01-06 03:36 G	26102462.44	26102462.65	26102462.90	0.0088	0.0042 *
Venus	66754-02-13 19:55 G	26102501.13	26102501.33	26102501.53	0.0088	0.0035
Mercury	66754-03-09 17:17 G	26102525.09	26102525.22	26102525.38	0.0088	0.0049
Mercury	66754-06-05 19:55 G	26102613.22	26102613.33	26102613.48	0.0088	0.0059
Mercury	66754-09-01 23:03 G	26102701.36	26102701.46	26102701.58	0.0088	0.0068
Venus	66754-09-27 08:10 G	26102726.67	26102726.84	26102727.06	0.0088	0.0041
Mercury	66754-11-29 01:41 G	26102789.50	26102789.57	26102789.66	0.0088	0.0078
Earth	66755-01-08 15:51 G	26102829.90	26102830.16	26102830.42	0.0088	0.0012
Moon	66755-01-08 17:17 G	26102829.98	26102830.22	26102830.48	0.0088	0.0017 *
Mercury	66755-02-25 04:48 G	26102877.70	26102877.70	26102877.71	0.0088	0.0088
Venus	66755-05-10 21:22 G	26102952.20	26102952.39	26102952.58	0.0088	0.0045
Venus	66755-12-22 10:05 G	26103177.74	26103177.92	26103178.10	0.0088	0.0050
Moon	66756-01-11 00:15 G	26103197.26	26103197.51	26103197.77	0.0088	0.0021
Earth	66756-01-11 03:22 G	26103197.40	26103197.64	26103197.91	0.0088	0.0017 *
Venus	66756-08-03 22:34 G	26103403.28	26103403.44	26103403.62	0.0088	0.0055
Earth	66757-01-12 14:39 G	26103564.91	26103565.11	26103565.35	0.0088	0.0046
Moon	66757-01-12 18:15 G	26103565.04	26103565.26	26103565.50	0.0088	0.0041 *
Venus	66757-03-17 11:03 G	26103628.82	26103628.96	26103629.13	0.0088	0.0060
Venus	66757-10-28 23:46 G	26103854.36	26103854.49	26103854.66	0.0088	0.0065
Moon	66758-01-14 22:34 G	26103932.35	26103932.44	26103932.57	0.0088	0.0080
Earth	66758-01-15 02:24 G	26103932.48	26103932.60	26103932.75	0.0088	0.0075 *
Venus	66758-06-11 12:29 G	26104079.91	26104080.02	26104080.17	0.0088	0.0070
Venus	66759-01-23 01:27 G	26104305.45	26104305.56	26104305.68	0.0088	0.0075

Venus	66759-09-05 13:55 G	26104531.00	26104531.08	26104531.18	0.0088	0.0079
Venus	66760-04-18 02:24 G	26104756.56	26104756.60	26104756.68	0.0088	0.0084
Mars	66787-03-12 03:07 G	26114580.32	26114580.63	26114580.94	0.0089	0.0009
Venus	66820-10-23 11:03 G	26126859.91	26126859.96	26126860.02	0.0090	0.0086
Venus	66821-06-05 23:46 G	26127085.43	26127085.49	26127085.61	0.0090	0.0082
Venus	66822-01-17 13:12 G	26127310.96	26127311.05	26127311.18	0.0090	0.0077
Venus	66822-08-31 02:24 G	26127536.49	26127536.60	26127536.76	0.0090	0.0072
Venus	66823-04-13 16:19 G	26127762.04	26127762.18	26127762.33	0.0090	0.0066
Venus	66823-11-25 05:31 G	26127987.58	26127987.73	26127987.90	0.0090	0.0061
Venus	66824-07-07 18:43 G	26128213.12	26128213.28	26128213.46	0.0090	0.0056
Venus	66825-02-18 08:10 G	26128438.67	26128438.84	26128439.03	0.0090	0.0051
Venus	66825-10-01 21:22 G	26128664.22	26128664.39	26128664.59	0.0090	0.0046
Venus	66826-05-15 10:48 G	26128889.77	26128889.95	26128890.16	0.0090	0.0040
Venus	66826-12-27 00:15 G	26129115.31	26129115.51	26129115.72	0.0090	0.0035
Venus	66827-08-09 13:41 G	26129340.87	26129341.07	26129341.28	0.0090	0.0030
Venus	66828-03-22 02:53 G	26129566.42	26129566.62	26129566.85	0.0090	0.0025
Venus	66828-11-02 16:19 G	26129791.98	26129792.18	26129792.41	0.0090	0.0020
Venus	66829-06-16 06:00 G	26130017.53	26130017.75	26130017.97	0.0090	0.0014
Venus	66830-01-27 19:12 G	26130243.09	26130243.30	26130243.52	0.0089	0.0009
Venus	66830-09-10 08:39 G	26130468.64	26130468.86	26130469.08	0.0089	0.0003
Venus	66831-04-23 22:19 G	26130694.21	26130694.43	26130694.65	0.0089	0.0003
Mercury	66831-11-19 04:48 G	26130903.68	26130903.70	26130903.75	0.0089	0.0086
Venus	66831-12-05 11:31 G	26130919.76	26130919.98	26130920.20	0.0089	0.0008
Mercury	66832-02-15 06:43 G	26130991.72	26130991.78	26130991.86	0.0089	0.0078
Mercury	66832-05-13 08:24 G	26131079.77	26131079.85	26131079.95	0.0089	0.0069
Venus	66832-07-18 00:43 G	26131145.32	26131145.53	26131145.76	0.0089	0.0013
Mercury	66832-08-09 10:19 G	26131167.83	26131167.93	26131168.04	0.0089	0.0061
Mercury	66832-11-05 12:00 G	26131255.89	26131256.00	26131256.12	0.0089	0.0052
Mercury	66833-02-01 13:55 G	26131343.95	26131344.08	26131344.21	0.0089	0.0044
Venus	66833-02-28 14:10 G	26131370.88	26131371.09	26131371.31	0.0089	0.0018

Mercury	66833-04-30 15:36 G	26131432.02	26131432.15	26131432.29	0.0089	0.0036
Mercury	66833-07-27 17:17 G	26131520.09	26131520.22	26131520.36	0.0089	0.0027
Venus	66833-10-12 03:22 G	26131596.44	26131596.64	26131596.86	0.0089	0.0024
Mercury	66833-10-23 18:58 G	26131608.16	26131608.29	26131608.44	0.0089	0.0019
Mercury	66834-01-19 20:53 G	26131696.22	26131696.37	26131696.51	0.0089	0.0011
Mercury	66834-04-17 22:34 G	26131784.30	26131784.44	26131784.58	0.0089	0.0002
Venus	66834-05-25 17:03 G	26131822.00	26131822.21	26131822.42	0.0089	0.0029
Earth	66834-07-03 15:36 G	26131861.00	26131861.15	26131861.35	0.0089	0.0066
Moon	66834-07-03 16:34 G	26131861.03	26131861.19	26131861.37	0.0089	0.0065 *
Mercury	66834-07-15 00:15 G	26131872.37	26131872.51	26131872.65	0.0089	0.0006
Mercury	66834-10-11 01:55 G	26131960.44	26131960.58	26131960.72	0.0089	0.0014
Venus	66835-01-06 06:00 G	26132047.56	26132047.75	26132047.96	0.0089	0.0034
Mercury	66835-01-07 03:36 G	26132048.51	26132048.65	26132048.79	0.0089	0.0022
Mercury	66835-04-05 05:17 G	26132136.59	26132136.72	26132136.86	0.0089	0.0030
Mercury	66835-07-02 06:58 G	26132224.66	26132224.79	26132224.92	0.0089	0.0039
Moon	66835-07-06 01:55 G	26132228.36	26132228.58	26132228.84	0.0089	0.0037
Earth	66835-07-06 03:36 G	26132228.42	26132228.65	26132228.89	0.0089	0.0036 *
Venus	66835-08-19 19:12 G	26132273.12	26132273.30	26132273.51	0.0089	0.0040
Mercury	66835-09-28 08:39 G	26132312.74	26132312.86	26132312.98	0.0089	0.0047
Mercury	66835-12-25 10:19 G	26132400.82	26132400.93	26132401.04	0.0089	0.0055
Mercury	66836-03-22 11:46 G	26132488.90	26132488.99	26132489.10	0.0089	0.0063
Venus	66836-04-01 08:39 G	26132498.68	26132498.86	26132499.06	0.0089	0.0045
Mercury	66836-06-18 13:27 G	26132576.98	26132577.06	26132577.15	0.0089	0.0071
Earth	66836-07-07 15:07 G	26132595.88	26132596.13	26132596.39	0.0089	0.0006
Moon	66836-07-07 17:46 G	26132596.00	26132596.24	26132596.49	0.0089	0.0005 *
Mercury	66836-09-14 15:07 G	26132665.07	26132665.13	26132665.20	0.0089	0.0079
Venus	66836-11-12 22:05 G	26132724.24	26132724.42	26132724.61	0.0089	0.0050
Mercury	66836-12-11 16:34 G	26132753.17	26132753.19	26132753.23	0.0089	0.0087
Venus	66837-06-26 11:03 G	26132949.81	26132949.96	26132950.15	0.0089	0.0055
Moon	66837-07-09 23:17 G	26132963.23	26132963.47	26132963.73	0.0089	0.0023

Earth	66837-07-10 02:24 G	26132963.37	26132963.60	26132963.86	0.0089	0.0024 *
Venus	66838-02-07 00:15 G	26133175.37	26133175.51	26133175.70	0.0089	0.0061
Earth	66838-07-12 14:10 G	26133330.89	26133331.09	26133331.30	0.0089	0.0054
Moon	66838-07-12 17:17 G	26133331.04	26133331.22	26133331.44	0.0089	0.0056 *
Venus	66838-09-20 13:41 G	26133400.94	26133401.07	26133401.24	0.0089	0.0065
Venus	66839-05-04 03:07 G	26133626.52	26133626.63	26133626.78	0.0089	0.0070
Moon	66839-07-14 21:51 G	26133698.34	26133698.41	26133698.53	0.0089	0.0082
Earth	66839-07-15 01:27 G	26133698.49	26133698.56	26133698.66	0.0089	0.0084 *
Venus	66839-12-15 16:19 G	26133852.09	26133852.18	26133852.32	0.0089	0.0076
Venus	66840-07-28 05:46 G	26134077.66	26134077.74	26134077.85	0.0089	0.0080
Venus	66841-03-10 18:58 G	26134303.25	26134303.29	26134303.38	0.0089	0.0085
Mars	66867-03-19 12:15 G	26143807.89	26143808.01	26143808.17	0.0088	0.0079
Mars	66869-02-11 09:22 G	26144502.71	26144502.89	26144503.10	0.0088	0.0069
Venus	66902-12-10 22:48 G	26156857.45	26156857.45	26156857.48	0.0088	0.0088
Venus	66903-07-24 11:31 G	26157082.92	26157082.98	26157083.06	0.0088	0.0083
Venus	66904-03-06 00:29 G	26157308.42	26157308.52	26157308.62	0.0088	0.0078
Venus	66904-10-17 12:43 G	26157533.94	26157534.03	26157534.18	0.0088	0.0074
Venus	66905-05-31 01:41 G	26157759.45	26157759.57	26157759.72	0.0088	0.0069
Venus	66906-01-11 14:24 G	26157984.96	26157985.10	26157985.27	0.0088	0.0064
Venus	66906-08-25 03:07 G	26158210.48	26158210.63	26158210.81	0.0088	0.0059
Venus	66907-04-07 16:05 G	26158436.00	26158436.17	26158436.35	0.0088	0.0054
Venus	66907-11-19 04:48 G	26158661.52	26158661.70	26158661.89	0.0088	0.0049
Venus	66908-07-01 17:31 G	26158887.04	26158887.23	26158887.42	0.0088	0.0044
Venus	66909-02-12 06:15 G	26159112.56	26159112.76	26159112.96	0.0088	0.0039
Venus	66909-09-25 18:58 G	26159338.09	26159338.29	26159338.50	0.0088	0.0034
Venus	66910-05-09 07:41 G	26159563.61	26159563.82	26159564.03	0.0088	0.0029
Venus	66910-12-20 20:24 G	26159789.13	26159789.35	26159789.56	0.0088	0.0024
Venus	66911-08-03 08:53 G	26160014.66	26160014.87	26160015.09	0.0088	0.0019
Venus	66912-03-15 21:36 G	26160240.18	26160240.40	26160240.62	0.0088	0.0014
Venus	66912-10-27 10:19 G	26160465.71	26160465.93	26160466.15	0.0088	0.0009

Venus	66913-06-09 23:03 G	26160691.24	26160691.46	26160691.68	0.0088	0.0004
Venus	66914-01-21 11:31 G	26160916.76	26160916.98	26160917.20	0.0088	0.0001
Venus	66914-09-04 00:15 G	26161142.29	26161142.51	26161142.73	0.0088	0.0006
Venus	66915-04-17 12:58 G	26161367.82	26161368.04	26161368.26	0.0088	0.0011
Mercury	66915-07-21 01:55 G	26161462.52	26161462.58	26161462.65	0.0088	0.0080
Mercury	66915-10-17 04:19 G	26161550.59	26161550.68	26161550.79	0.0088	0.0071
Venus	66915-11-29 01:41 G	26161593.35	26161593.57	26161593.78	0.0088	0.0016
Mercury	66916-01-13 06:58 G	26161638.68	26161638.79	26161638.92	0.0088	0.0062
Mercury	66916-04-10 09:36 G	26161726.77	26161726.90	26161727.05	0.0088	0.0053
Mercury	66916-07-07 12:00 G	26161814.87	26161815.00	26161815.17	0.0088	0.0044
Venus	66916-07-11 14:10 G	26161818.88	26161819.09	26161819.31	0.0088	0.0021
Mercury	66916-10-03 14:53 G	26161902.97	26161903.12	26161903.29	0.0088	0.0034
Mercury	66916-12-30 17:31 G	26161991.07	26161991.23	26161991.40	0.0088	0.0025
Moon	66917-01-03 19:27 G	26161995.31	26161995.31	26161995.33	0.0088	0.0088
Earth	66917-01-03 21:07 G	26161995.33	26161995.38	26161995.45	0.0088	0.0085 *
Venus	66917-02-22 02:53 G	26162044.41	26162044.62	26162044.83	0.0088	0.0026
Mercury	66917-03-28 20:24 G	26162079.18	26162079.35	26162079.52	0.0088	0.0015
Mercury	66917-06-24 23:03 G	26162167.29	26162167.46	26162167.63	0.0088	0.0006
Mercury	66917-09-21 01:41 G	26162255.40	26162255.57	26162255.75	0.0088	0.0004
Venus	66917-10-05 15:51 G	26162269.95	26162270.16	26162270.37	0.0088	0.0031
Mercury	66917-12-18 04:19 G	26162343.51	26162343.68	26162343.86	0.0088	0.0013
Earth	66918-01-06 08:24 G	26162362.68	26162362.85	26162363.07	0.0088	0.0057
Moon	66918-01-06 11:03 G	26162362.78	26162362.96	26162363.18	0.0088	0.0054 *
Mercury	66918-03-16 06:58 G	26162431.63	26162431.79	26162431.97	0.0088	0.0023
Venus	66918-05-19 04:34 G	26162495.49	26162495.69	26162495.89	0.0088	0.0036
Mercury	66918-06-12 09:51 G	26162519.75	26162519.91	26162520.07	0.0088	0.0032
Mercury	66918-09-08 12:29 G	26162607.87	26162608.02	26162608.18	0.0088	0.0042
Mercury	66918-12-05 15:22 G	26162696.00	26162696.14	26162696.28	0.0088	0.0051
Venus	66918-12-30 17:17 G	26162721.02	26162721.22	26162721.41	0.0088	0.0041
Moon	66919-01-08 17:17 G	26162729.99	26162730.22	26162730.49	0.0088	0.0030

Earth	66919-01-08 20:24 G	26162730.12	26162730.35	26162730.62	0.0088	0.0028 *
Mercury	66919-03-03 18:00 G	26162784.13	26162784.25	26162784.38	0.0088	0.0061
Mercury	66919-05-30 20:39 G	26162872.27	26162872.36	26162872.48	0.0088	0.0071
Venus	66919-08-13 05:46 G	26162946.56	26162946.74	26162946.93	0.0088	0.0046
Mercury	66919-08-26 23:17 G	26162960.42	26162960.47	26162960.56	0.0088	0.0081
Earth	66920-01-11 08:39 G	26163097.60	26163097.86	26163098.12	0.0088	0.0002
Moon	66920-01-11 12:29 G	26163097.76	26163098.02	26163098.28	0.0088	0.0004 *
Venus	66920-03-25 18:29 G	26163172.10	26163172.27	26163172.45	0.0088	0.0051
Venus	66920-11-06 07:12 G	26163397.64	26163397.80	26163397.98	0.0088	0.0056
Moon	66921-01-12 16:48 G	26163464.97	26163465.20	26163465.45	0.0088	0.0028
Earth	66921-01-12 20:24 G	26163465.11	26163465.35	26163465.59	0.0088	0.0030 *
Venus	66921-06-19 19:55 G	26163623.19	26163623.33	26163623.50	0.0088	0.0061
Earth	66922-01-15 07:41 G	26163832.64	26163832.82	26163833.03	0.0088	0.0059
Moon	66922-01-15 11:03 G	26163832.78	26163832.96	26163833.16	0.0088	0.0060 *
Venus	66922-01-31 08:24 G	26163848.73	26163848.85	26163849.01	0.0088	0.0066
Venus	66922-09-13 21:07 G	26164074.27	26164074.38	26164074.53	0.0088	0.0071
Moon	66923-01-17 17:31 G	26164200.19	26164200.23	26164200.29	0.0088	0.0086
Venus	66923-04-27 09:36 G	26164299.82	26164299.90	26164300.04	0.0088	0.0076
Venus	66923-12-08 22:48 G	26164525.37	26164525.45	26164525.54	0.0088	0.0081
Venus	66924-07-21 11:17 G	26164750.93	26164750.97	26164751.04	0.0088	0.0085
Jupiter	66944-08-09 14:53 G	26172074.89	26172075.12	26172075.49	0.0089	0.0075
Mars	66950-10-25 11:03 G	26174342.75	26174342.96	26174343.22	0.0089	0.0059
Saturn	66950-11-29 02:53 G	26174376.95	26174377.62	26174378.33	0.0089	0.0014
Venus	66985-01-25 18:15 G	26186854.20	26186854.26	26186854.32	0.0090	0.0086
Venus	66985-09-08 06:58 G	26187079.73	26187079.79	26187079.91	0.0090	0.0082
Venus	66986-04-21 21:07 G	26187305.27	26187305.38	26187305.49	0.0090	0.0076
Venus	66986-12-03 10:19 G	26187530.80	26187530.93	26187531.07	0.0090	0.0071
Venus	66987-07-16 23:31 G	26187756.34	26187756.48	26187756.63	0.0090	0.0066
Venus	66988-02-27 12:43 G	26187981.89	26187982.03	26187982.21	0.0090	0.0061
Venus	66988-10-10 02:10 G	26188207.43	26188207.59	26188207.77	0.0090	0.0056

Venus	66989-05-23 15:22 G	26188432.98	26188433.14	26188433.34	0.0090	0.0051
Venus	66990-01-04 04:34 G	26188658.52	26188658.69	26188658.90	0.0090	0.0046
Venus	66990-08-17 18:15 G	26188884.07	26188884.26	26188884.46	0.0090	0.0040
Venus	66991-03-31 07:41 G	26189109.62	26189109.82	26189110.03	0.0090	0.0035
Venus	66991-11-11 20:53 G	26189335.18	26189335.37	26189335.59	0.0090	0.0030
Venus	66992-06-24 10:34 G	26189560.73	26189560.94	26189561.15	0.0090	0.0024
Venus	66993-02-04 23:46 G	26189786.28	26189786.49	26189786.71	0.0090	0.0019
Venus	66993-09-18 13:12 G	26190011.83	26190012.05	26190012.27	0.0090	0.0013
Venus	66994-05-02 02:39 G	26190237.40	26190237.61	26190237.83	0.0090	0.0008
Venus	66994-12-13 16:05 G	26190462.95	26190463.17	26190463.39	0.0090	0.0003
Venus	66995-07-27 05:31 G	26190688.51	26190688.73	26190688.95	0.0089	0.0003
Venus	66996-03-08 18:43 G	26190914.07	26190914.28	26190914.51	0.0089	0.0009
Mercury	66996-08-16 03:22 G	26191074.61	26191074.64	26191074.70	0.0089	0.0085
Venus	66996-10-20 08:10 G	26191139.63	26191139.84	26191140.07	0.0089	0.0014
Mercury	66996-11-12 05:17 G	26191162.65	26191162.72	26191162.80	0.0089	0.0076
Mercury	66997-02-08 06:58 G	26191250.71	26191250.79	26191250.89	0.0089	0.0068
Mercury	66997-05-07 08:53 G	26191338.77	26191338.87	26191338.98	0.0089	0.0059
Venus	66997-06-02 21:36 G	26191365.19	26191365.40	26191365.62	0.0089	0.0019
Mercury	66997-08-03 10:34 G	26191426.83	26191426.94	26191427.07	0.0089	0.0051
Mercury	66997-10-30 12:15 G	26191514.89	26191515.01	26191515.15	0.0089	0.0043
Venus	66998-01-14 10:48 G	26191590.75	26191590.95	26191591.18	0.0089	0.0025
Mercury	66998-01-26 14:10 G	26191602.96	26191603.09	26191603.23	0.0089	0.0034
Mercury	66998-04-24 15:51 G	26191691.03	26191691.16	26191691.31	0.0089	0.0026
Moon	66998-07-03 18:29 G	26191761.15	26191761.27	26191761.42	0.0089	0.0077
Earth	66998-07-03 20:39 G	26191761.28	26191761.36	26191761.49	0.0089	0.0082 *
Mercury	66998-07-21 17:46 G	26191779.10	26191779.24	26191779.38	0.0089	0.0017
Venus	66998-08-28 00:15 G	26191816.31	26191816.51	26191816.73	0.0089	0.0030
Mercury	66998-10-17 19:27 G	26191867.17	26191867.31	26191867.46	0.0089	0.0009
Mercury	66999-01-13 21:07 G	26191955.24	26191955.38	26191955.53	0.0089	0.0003
Venus	66999-04-10 13:55 G	26192041.88	26192042.08	26192042.28	0.0089	0.0035

Mercury	66999-04-11 22:48 G	26192043.31	26192043.45	26192043.60	0.0089	0.0008
Earth	66999-07-06 08:24 G	26192128.65	26192128.85	26192129.07	0.0089	0.0052
Moon	66999-07-06 11:03 G	26192128.78	26192128.96	26192129.17	0.0089	0.0057 *
Mercury	66999-07-09 00:29 G	26192131.38	26192131.52	26192131.67	0.0089	0.0016
Mercury	66999-10-05 02:10 G	26192219.46	26192219.59	26192219.74	0.0089	0.0025
Venus	66999-11-22 02:53 G	26192267.44	26192267.62	26192267.83	0.0089	0.0041
Mercury	67000-01-01 03:51 G	26192307.53	26192307.66	26192307.80	0.0089	0.0033
Mercury	67000-03-30 05:31 G	26192395.61	26192395.73	26192395.86	0.0089	0.0041
Mercury	67000-06-26 07:12 G	26192483.69	26192483.80	26192483.93	0.0089	0.0049
Venus	67000-07-05 16:19 G	26192493.00	26192493.18	26192493.38	0.0089	0.0046
Moon	67000-07-08 16:34 G	26192495.94	26192496.19	26192496.45	0.0089	0.0017
Earth	67000-07-08 19:55 G	26192496.10	26192496.33	26192496.60	0.0089	0.0023 *
Mercury	67000-09-22 08:53 G	26192571.77	26192571.87	26192571.99	0.0089	0.0057
Mercury	67000-12-19 10:34 G	26192659.85	26192659.94	26192660.04	0.0089	0.0065

# 68TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 68th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	67001-02-16 05:31 G		26192718.56	26192718.73	26192718.92	0.0089	0.0051	
Mercury	67001-03-17 12:15 G		26192747.93	26192748.01	26192748.09	0.0089	0.0073	
Mercury	67001-06-13 13:41 G		26192836.02	26192836.07	26192836.14	0.0089	0.0081	
Earth	67001-07-11 07:41 G		26192863.57	26192863.82	26192864.08	0.0089	0.0008	



Moon	67001-07-11 11:17 G	26192863.71	26192863.97	26192864.23	0.0089	0.0003 *
Mercury	67001-09-09 15:22 G	26192924.13	26192924.14	26192924.17	0.0089	0.0089
Venus	67001-09-29 18:58 G	26192944.12	26192944.29	26192944.47	0.0089	0.0056
Venus	67002-05-13 07:55 G	26193169.70	26193169.83	26193170.02	0.0089	0.0062
Moon	67002-07-13 15:36 G	26193230.95	26193231.15	26193231.39	0.0089	0.0043
Earth	67002-07-13 18:58 G	26193231.07	26193231.29	26193231.53	0.0089	0.0038 *
Venus	67002-12-24 21:22 G	26193395.26	26193395.39	26193395.56	0.0089	0.0066
Earth	67003-07-16 06:15 G	26193598.61	26193598.76	26193598.95	0.0089	0.0068
Moon	67003-07-16 08:39 G	26193598.70	26193598.86	26193599.07	0.0089	0.0063 *
Venus	67003-08-07 10:34 G	26193620.83	26193620.94	26193621.09	0.0089	0.0071
Venus	67004-03-19 23:46 G	26193846.40	26193846.49	26193846.63	0.0089	0.0077
Venus	67004-10-31 13:12 G	26194071.98	26194072.05	26194072.16	0.0089	0.0081
Venus	67005-06-14 02:39 G	26194297.57	26194297.61	26194297.68	0.0089	0.0086
Mars	67032-09-27 16:19 G	26204264.86	26204265.18	26204265.50	0.0088	0.0005
Venus	67067-03-15 07:55 G	26216851.82	26216851.83	26216851.86	0.0088	0.0087
Venus	67067-10-26 20:24 G	26217077.30	26217077.35	26217077.44	0.0088	0.0083
Venus	67068-06-08 09:07 G	26217302.80	26217302.88	26217303.00	0.0088	0.0078
Venus	67069-01-19 21:51 G	26217528.31	26217528.41	26217528.55	0.0088	0.0073
Venus	67069-09-02 10:48 G	26217753.82	26217753.95	26217754.10	0.0088	0.0068
Venus	67070-04-15 23:46 G	26217979.33	26217979.49	26217979.64	0.0088	0.0063
Venus	67070-11-27 11:46 G	26218204.85	26218204.99	26218205.18	0.0088	0.0059
Venus	67071-07-11 00:29 G	26218430.37	26218430.52	26218430.72	0.0088	0.0054
Venus	67072-02-21 13:12 G	26218655.89	26218656.05	26218656.25	0.0088	0.0049
Venus	67072-10-04 02:10 G	26218881.42	26218881.59	26218881.80	0.0088	0.0044
Venus	67073-05-17 14:53 G	26219106.94	26219107.12	26219107.33	0.0088	0.0039
Venus	67073-12-29 03:36 G	26219332.46	26219332.65	26219332.87	0.0088	0.0034
Venus	67074-08-11 16:19 G	26219557.98	26219558.18	26219558.40	0.0088	0.0029
Venus	67075-03-25 04:48 G	26219783.50	26219783.70	26219783.93	0.0088	0.0024
Venus	67075-11-05 17:46 G	26220009.03	26220009.24	26220009.46	0.0088	0.0019
Venus	67076-06-18 06:29 G	26220234.56	26220234.77	26220234.99	0.0088	0.0013

Venus	67077-01-29 18:58 G	26220460.08	26220460.29	26220460.52	0.0088	0.0009
Venus	67077-09-12 07:41 G	26220685.61	26220685.82	26220686.05	0.0088	0.0004
Venus	67078-04-25 20:24 G	26220911.13	26220911.35	26220911.57	0.0088	0.0002
Venus	67078-12-07 09:07 G	26221136.66	26221136.88	26221137.10	0.0088	0.0007
Venus	67079-07-20 21:36 G	26221362.18	26221362.40	26221362.62	0.0088	0.0012
Mercury	67080-01-19 20:53 G	26221545.37	26221545.37	26221545.42	0.0088	0.0087
Venus	67080-03-02 10:19 G	26221587.71	26221587.93	26221588.15	0.0088	0.0017
Mercury	67080-04-17 00:00 G	26221633.42	26221633.50	26221633.58	0.0088	0.0077
Mercury	67080-07-14 02:24 G	26221721.50	26221721.60	26221721.71	0.0088	0.0068
Mercury	67080-10-10 05:03 G	26221809.59	26221809.71	26221809.84	0.0088	0.0059
Venus	67080-10-13 23:03 G	26221813.25	26221813.46	26221813.68	0.0088	0.0022
Mercury	67081-01-06 07:27 G	26221897.68	26221897.81	26221897.96	0.0088	0.0050
Mercury	67081-04-04 10:05 G	26221985.78	26221985.92	26221986.08	0.0088	0.0041
Venus	67081-05-27 11:46 G	26222038.78	26222038.99	26222039.20	0.0088	0.0027
Mercury	67081-07-01 12:43 G	26222073.88	26222074.03	26222074.20	0.0088	0.0032
Mercury	67081-09-27 15:36 G	26222161.98	26222162.15	26222162.32	0.0088	0.0022
Mercury	67081-12-24 18:15 G	26222250.09	26222250.26	26222250.43	0.0088	0.0013
Moon	67082-01-06 09:51 G	26222262.80	26222262.91	26222263.07	0.0088	0.0075
Earth	67082-01-06 13:27 G	26222262.94	26222263.06	26222263.24	0.0088	0.0072 *
Venus	67082-01-08 00:15 G	26222264.31	26222264.51	26222264.72	0.0088	0.0032
Mercury	67082-03-22 20:53 G	26222338.20	26222338.37	26222338.54	0.0088	0.0003
Mercury	67082-06-18 23:31 G	26222426.31	26222426.48	26222426.65	0.0088	0.0006
Venus	67082-08-21 12:58 G	26222489.84	26222490.04	26222490.24	0.0088	0.0037
Mercury	67082-09-15 02:10 G	26222514.42	26222514.59	26222514.76	0.0088	0.0016
Mercury	67082-12-12 04:48 G	26222602.54	26222602.70	26222602.87	0.0088	0.0025
Earth	67083-01-09 01:27 G	26222630.35	26222630.56	26222630.80	0.0088	0.0043
Moon	67083-01-09 04:48 G	26222630.49	26222630.70	26222630.95	0.0088	0.0039 *
Mercury	67083-03-10 07:27 G	26222690.66	26222690.81	26222690.98	0.0088	0.0035
Venus	67083-04-04 01:27 G	26222715.38	26222715.56	26222715.76	0.0088	0.0042
Mercury	67083-06-06 10:19 G	26222778.78	26222778.93	26222779.08	0.0088	0.0044

Mercury	67083-09-02 12:43 G	26222866.91	26222867.03	26222867.18	0.0088	0.0054
Venus	67083-11-15 14:24 G	26222940.92	26222941.10	26222941.29	0.0088	0.0047
Mercury	67083-11-29 15:51 G	26222955.04	26222955.16	26222955.28	0.0088	0.0063
Moon	67084-01-11 09:51 G	26222997.67	26222997.91	26222998.17	0.0088	0.0018
Earth	67084-01-11 13:12 G	26222997.80	26222998.05	26222998.32	0.0088	0.0014 *
Mercury	67084-02-25 18:29 G	26223043.18	26223043.27	26223043.37	0.0088	0.0073
Mercury	67084-05-23 21:07 G	26223131.34	26223131.38	26223131.45	0.0088	0.0083
Venus	67084-06-28 02:53 G	26223166.46	26223166.62	26223166.81	0.0088	0.0052
Earth	67085-01-13 00:58 G	26223365.29	26223365.54	26223365.80	0.0088	0.0015
Moon	67085-01-13 03:07 G	26223365.38	26223365.63	26223365.90	0.0088	0.0019 *
Venus	67085-02-08 15:36 G	26223391.99	26223392.15	26223392.33	0.0088	0.0057
Venus	67085-09-22 04:19 G	26223617.54	26223617.68	26223617.85	0.0088	0.0062
Moon	67086-01-15 11:03 G	26223732.75	26223732.96	26223733.19	0.0088	0.0040
Earth	67086-01-15 12:29 G	26223732.81	26223733.02	26223733.26	0.0088	0.0044 *
Venus	67086-05-05 16:48 G	26223843.08	26223843.20	26223843.36	0.0088	0.0067
Venus	67086-12-17 05:31 G	26224068.63	26224068.73	26224068.88	0.0088	0.0072
Earth	67087-01-18 00:00 G	26224100.38	26224100.50	26224100.67	0.0088	0.0073
Moon	67087-01-18 00:15 G	26224100.41	26224100.51	26224100.67	0.0088	0.0077 *
Venus	67087-07-30 18:15 G	26224294.18	26224294.26	26224294.39	0.0088	0.0077
Venus	67088-03-12 07:12 G	26224519.73	26224519.80	26224519.89	0.0088	0.0081
Venus	67088-10-23 19:55 G	26224745.30	26224745.33	26224745.39	0.0088	0.0086
Jupiter	67110-10-10 11:46 G	26232765.56	26232765.99	26232766.49	0.0089	0.0048
Mars	67116-05-05 13:12 G	26234799.77	26234800.05	26234800.37	0.0089	0.0024
Venus	67149-05-01 01:27 G	26246848.50	26246848.56	26246848.62	0.0090	0.0086
Venus	67149-12-12 14:39 G	26247074.03	26247074.11	26247074.21	0.0090	0.0081
Venus	67150-07-26 04:05 G	26247299.56	26247299.67	26247299.79	0.0090	0.0076
Venus	67151-03-08 17:31 G	26247525.10	26247525.23	26247525.37	0.0090	0.0071
Venus	67151-10-20 06:43 G	26247750.64	26247750.78	26247750.94	0.0090	0.0066
Venus	67152-06-01 19:55 G	26247976.19	26247976.33	26247976.51	0.0090	0.0061
Venus	67153-01-13 09:07 G	26248201.73	26248201.88	26248202.07	0.0090	0.0056

Venus	67153-08-26 22:34 G	26248427.27	26248427.44	26248427.64	0.0090	0.0051
Venus	67154-04-09 12:15 G	26248652.83	26248653.01	26248653.21	0.0090	0.0045
Venus	67154-11-21 01:27 G	26248878.37	26248878.56	26248878.77	0.0090	0.0040
Venus	67155-07-04 14:39 G	26249103.92	26249104.11	26249104.33	0.0090	0.0035
Venus	67156-02-15 04:19 G	26249329.47	26249329.68	26249329.89	0.0090	0.0029
Venus	67156-09-27 17:31 G	26249555.02	26249555.23	26249555.45	0.0090	0.0024
Venus	67157-05-11 06:43 G	26249780.58	26249780.78	26249781.01	0.0090	0.0019
Venus	67157-12-22 20:24 G	26250006.13	26250006.35	26250006.57	0.0090	0.0013
Venus	67158-08-05 09:36 G	26250231.68	26250231.90	26250232.12	0.0090	0.0008
Venus	67159-03-18 23:03 G	26250457.24	26250457.46	26250457.68	0.0090	0.0002
Venus	67159-10-30 12:29 G	26250682.80	26250683.02	26250683.24	0.0090	0.0003
Venus	67160-06-12 01:55 G	26250908.36	26250908.58	26250908.80	0.0089	0.0009
Venus	67161-01-23 15:07 G	26251133.92	26251134.13	26251134.35	0.0089	0.0014
Mercury	67161-05-15 01:41 G	26251245.53	26251245.57	26251245.64	0.0089	0.0083
Mercury	67161-08-11 03:36 G	26251333.58	26251333.65	26251333.74	0.0089	0.0075
Venus	67161-09-06 04:34 G	26251359.48	26251359.69	26251359.91	0.0089	0.0019
Mercury	67161-11-07 05:17 G	26251421.64	26251421.72	26251421.83	0.0089	0.0067
Mercury	67162-02-03 07:12 G	26251509.70	26251509.80	26251509.92	0.0089	0.0058
Venus	67162-04-19 18:15 G	26251585.05	26251585.26	26251585.47	0.0089	0.0025
Mercury	67162-05-02 08:53 G	26251597.76	26251597.87	26251598.00	0.0089	0.0050
Mercury	67162-07-29 10:48 G	26251685.83	26251685.95	26251686.09	0.0089	0.0041
Mercury	67162-10-25 12:43 G	26251773.90	26251774.03	26251774.17	0.0089	0.0032
Venus	67162-12-01 07:12 G	26251810.61	26251810.80	26251811.02	0.0089	0.0031
Mercury	67163-01-21 14:24 G	26251861.97	26251862.10	26251862.25	0.0089	0.0024
Mercury	67163-04-19 16:19 G	26251950.04	26251950.18	26251950.32	0.0089	0.0016
Moon	67163-07-07 09:22 G	26252028.75	26252028.89	26252029.07	0.0089	0.0069
Earth	67163-07-07 13:12 G	26252028.89	26252029.05	26252029.22	0.0089	0.0068 *
Venus	67163-07-14 20:39 G	26252036.17	26252036.36	26252036.58	0.0089	0.0036
Mercury	67163-07-16 18:00 G	26252038.11	26252038.25	26252038.39	0.0089	0.0007
Mercury	67163-10-12 19:41 G	26252126.18	26252126.32	26252126.47	0.0089	0.0002

Mercury	67164-01-08 21:36 G	26252214.25	26252214.40	26252214.54	0.0089	0.0010
Venus	67164-02-25 10:05 G	26252261.73	26252261.92	26252262.13	0.0089	0.0041
Mercury	67164-04-05 23:17 G	26252302.33	26252302.47	26252302.61	0.0089	0.0018
Mercury	67164-07-03 00:58 G	26252390.40	26252390.54	26252390.68	0.0089	0.0026
Earth	67164-07-09 00:15 G	26252396.30	26252396.51	26252396.76	0.0089	0.0039
Moon	67164-07-09 04:05 G	26252396.45	26252396.67	26252396.92	0.0089	0.0038 *
Mercury	67164-09-29 02:24 G	26252478.48	26252478.60	26252478.74	0.0089	0.0034
Venus	67164-10-07 23:17 G	26252487.30	26252487.47	26252487.68	0.0089	0.0047
Mercury	67164-12-26 04:05 G	26252566.55	26252566.67	26252566.80	0.0089	0.0042
Mercury	67165-03-24 05:46 G	26252654.63	26252654.74	26252654.87	0.0089	0.0050
Venus	67165-05-21 12:43 G	26252712.87	26252713.03	26252713.23	0.0089	0.0052
Mercury	67165-06-20 07:27 G	26252742.71	26252742.81	26252742.93	0.0089	0.0058
Moon	67165-07-11 09:36 G	26252763.66	26252763.90	26252764.16	0.0089	0.0010
Earth	67165-07-11 12:15 G	26252763.76	26252764.01	26252764.27	0.0089	0.0008 *
Mercury	67165-09-16 09:07 G	26252830.79	26252830.88	26252830.98	0.0089	0.0066
Mercury	67165-12-13 10:48 G	26252918.88	26252918.95	26252919.03	0.0089	0.0074
Venus	67166-01-02 02:10 G	26252938.44	26252938.59	26252938.77	0.0089	0.0057
Mercury	67166-03-11 12:15 G	26253006.97	26253007.01	26253007.08	0.0089	0.0083
Earth	67166-07-13 23:46 G	26253131.25	26253131.49	26253131.74	0.0089	0.0021
Moon	67166-07-14 01:27 G	26253131.32	26253131.56	26253131.83	0.0089	0.0022 *
Venus	67166-08-15 15:36 G	26253164.00	26253164.15	26253164.32	0.0089	0.0062
Venus	67167-03-29 05:03 G	26253389.57	26253389.71	26253389.86	0.0089	0.0067
Moon	67167-07-16 10:19 G	26253498.74	26253498.93	26253499.14	0.0089	0.0052
Earth	67167-07-16 11:03 G	26253498.77	26253498.96	26253499.19	0.0089	0.0051 *
Venus	67167-11-09 18:00 G	26253615.14	26253615.25	26253615.40	0.0089	0.0072
Venus	67168-06-22 07:12 G	26253840.72	26253840.80	26253840.94	0.0089	0.0078
Moon	67168-07-17 21:22 G	26253866.31	26253866.39	26253866.53	0.0089	0.0081
Earth	67168-07-17 22:48 G	26253866.35	26253866.45	26253866.57	0.0089	0.0081 *
Venus	67169-02-02 20:39 G	26254066.30	26254066.36	26254066.47	0.0089	0.0082
Venus	67169-09-16 09:51 G	26254291.89	26254291.91	26254291.98	0.0089	0.0087

Mars	67196-05-12 21:07 G	26264027.18	26264027.38	26264027.63	0.0088	0.0063
Mars	67198-04-07 18:43 G	26264722.27	26264722.28	26264722.36	0.0088	0.0088
Venus	67231-06-17 16:34 G	26276846.18	26276846.19	26276846.24	0.0088	0.0087
Venus	67232-01-29 05:31 G	26277071.66	26277071.73	26277071.81	0.0088	0.0082
Venus	67232-09-10 18:29 G	26277297.17	26277297.27	26277297.37	0.0088	0.0077
Venus	67233-04-24 06:43 G	26277522.68	26277522.78	26277522.92	0.0088	0.0073
Venus	67233-12-05 19:12 G	26277748.18	26277748.30	26277748.46	0.0088	0.0068
Venus	67234-07-19 07:55 G	26277973.70	26277973.83	26277974.00	0.0088	0.0063
Venus	67235-03-01 20:53 G	26278199.21	26278199.37	26278199.54	0.0088	0.0058
Venus	67235-10-13 09:36 G	26278424.74	26278424.90	26278425.09	0.0088	0.0053
Venus	67236-05-25 22:19 G	26278650.26	26278650.43	26278650.63	0.0088	0.0048
Venus	67237-01-06 11:03 G	26278875.78	26278875.96	26278876.16	0.0088	0.0043
Venus	67237-08-19 23:46 G	26279101.30	26279101.49	26279101.70	0.0088	0.0038
Venus	67238-04-02 12:29 G	26279326.82	26279327.02	26279327.23	0.0088	0.0033
Venus	67238-11-14 01:12 G	26279552.35	26279552.55	26279552.77	0.0088	0.0028
Venus	67239-06-27 13:55 G	26279777.87	26279778.08	26279778.30	0.0088	0.0023
Venus	67240-02-08 02:39 G	26280003.40	26280003.61	26280003.83	0.0088	0.0018
Venus	67240-09-20 15:22 G	26280228.93	26280229.14	26280229.37	0.0088	0.0013
Venus	67241-05-04 04:05 G	26280454.46	26280454.67	26280454.90	0.0088	0.0008
Venus	67241-12-15 16:48 G	26280679.98	26280680.20	26280680.42	0.0088	0.0003
Venus	67242-07-29 05:31 G	26280905.51	26280905.73	26280905.95	0.0088	0.0003
Venus	67243-03-11 18:00 G	26281131.04	26281131.25	26281131.48	0.0088	0.0008
Venus	67243-10-23 06:58 G	26281356.57	26281356.79	26281357.01	0.0088	0.0013
Venus	67244-06-04 19:27 G	26281582.10	26281582.31	26281582.53	0.0088	0.0018
Mercury	67244-10-16 19:27 G	26281716.26	26281716.31	26281716.37	0.0088	0.0083
Mercury	67245-01-12 21:51 G	26281804.33	26281804.41	26281804.51	0.0088	0.0074
Venus	67245-01-16 08:10 G	26281807.63	26281807.84	26281808.05	0.0088	0.0023
Mercury	67245-04-11 00:29 G	26281892.41	26281892.52	26281892.64	0.0088	0.0065
Mercury	67245-07-08 02:53 G	26281980.50	26281980.62	26281980.77	0.0088	0.0056
Venus	67245-08-29 20:39 G	26282033.16	26282033.36	26282033.57	0.0088	0.0028

Mercury	67245-10-04 05:31 G	26282068.60	26282068.73	26282068.89	0.0088	0.0047
Mercury	67245-12-31 08:10 G	26282156.69	26282156.84	26282157.00	0.0088	0.0038
Earth	67246-01-06 19:27 G	26282163.28	26282163.31	26282163.37	0.0088	0.0086
Mercury	67246-03-29 11:03 G	26282244.79	26282244.96	26282245.12	0.0088	0.0028
Venus	67246-04-12 09:22 G	26282258.69	26282258.89	26282259.09	0.0088	0.0033
Mercury	67246-06-25 13:27 G	26282332.90	26282333.06	26282333.24	0.0088	0.0019
Mercury	67246-09-21 16:05 G	26282421.00	26282421.17	26282421.35	0.0088	0.0010
Venus	67246-11-23 22:05 G	26282484.22	26282484.42	26282484.62	0.0088	0.0038
Mercury	67246-12-18 18:58 G	26282509.11	26282509.29	26282509.46	0.0088	0.0002
Moon	67247-01-09 04:34 G	26282530.49	26282530.69	26282530.89	0.0088	0.0054
Earth	67247-01-09 06:58 G	26282530.62	26282530.79	26282531.01	0.0088	0.0058 *
Mercury	67247-03-16 21:36 G	26282597.22	26282597.40	26282597.57	0.0088	0.0009
Mercury	67247-06-13 00:00 G	26282685.34	26282685.50	26282685.68	0.0088	0.0019
Venus	67247-07-07 10:48 G	26282709.76	26282709.95	26282710.14	0.0088	0.0043
Mercury	67247-09-09 02:53 G	26282773.46	26282773.62	26282773.79	0.0088	0.0028
Mercury	67247-12-06 05:17 G	26282861.58	26282861.72	26282861.89	0.0088	0.0038
Earth	67248-01-11 18:43 G	26282898.05	26282898.28	26282898.54	0.0088	0.0029
Moon	67248-01-11 21:07 G	26282898.14	26282898.38	26282898.64	0.0088	0.0032 *
Venus	67248-02-17 23:17 G	26282935.29	26282935.47	26282935.66	0.0088	0.0048
Mercury	67248-03-03 08:10 G	26282949.70	26282949.84	26282949.99	0.0088	0.0047
Mercury	67248-05-30 10:48 G	26283037.83	26283037.95	26283038.09	0.0088	0.0057
Mercury	67248-08-26 13:41 G	26283125.96	26283126.07	26283126.19	0.0088	0.0066
Venus	67248-09-30 12:00 G	26283160.83	26283161.00	26283161.18	0.0088	0.0053
Mercury	67248-11-22 16:19 G	26283214.10	26283214.18	26283214.28	0.0088	0.0076
Moon	67249-01-13 06:15 G	26283265.51	26283265.76	26283266.01	0.0088	0.0004
Earth	67249-01-13 06:43 G	26283265.52	26283265.78	26283266.04	0.0088	0.0000 *
Mercury	67249-02-18 18:43 G	26283302.27	26283302.28	26283302.34	0.0088	0.0086
Venus	67249-05-14 00:43 G	26283386.37	26283386.53	26283386.70	0.0088	0.0058
Venus	67249-12-25 13:12 G	26283611.91	26283612.05	26283612.21	0.0088	0.0063
Moon	67250-01-15 17:46 G	26283633.00	26283633.24	26283633.51	0.0088	0.0026

Earth	67250-01-15 18:15 G	26283633.02	26283633.26	26283633.51	0.0088	0.0029 *
Venus	67250-08-08 01:55 G	26283837.45	26283837.58	26283837.73	0.0088	0.0068
Earth	67251-01-18 05:31 G	26284000.56	26284000.73	26284000.95	0.0088	0.0058
Moon	67251-01-18 07:12 G	26284000.64	26284000.80	26284001.00	0.0088	0.0061 *
Venus	67251-03-21 14:24 G	26284063.00	26284063.10	26284063.24	0.0088	0.0073
Venus	67251-11-02 03:07 G	26284288.56	26284288.63	26284288.76	0.0088	0.0078
Moon	67252-01-20 14:10 G	26284368.03	26284368.09	26284368.21	0.0088	0.0083
Earth	67252-01-20 17:03 G	26284368.20	26284368.21	26284368.29	0.0088	0.0087 *
Venus	67252-06-14 15:51 G	26284514.11	26284514.16	26284514.26	0.0088	0.0083
Venus	67253-01-26 04:48 G	26284739.69	26284739.70	26284739.74	0.0088	0.0087
Jupiter	67276-12-08 18:29 G	26293456.77	26293457.27	26293457.83	0.0089	0.0025
Mars	67279-12-18 23:46 G	26294562.23	26294562.49	26294562.76	0.0089	0.0045
Venus	67313-08-03 08:39 G	26306842.81	26306842.86	26306842.92	0.0090	0.0086
Venus	67314-03-16 22:05 G	26307068.34	26307068.42	26307068.52	0.0090	0.0081
Venus	67314-10-28 11:31 G	26307293.87	26307293.98	26307294.10	0.0090	0.0076
Venus	67315-06-11 00:43 G	26307519.41	26307519.53	26307519.67	0.0090	0.0071
Venus	67316-01-22 13:55 G	26307744.95	26307745.08	26307745.24	0.0090	0.0066
Venus	67316-09-04 03:22 G	26307970.49	26307970.64	26307970.82	0.0090	0.0061
Venus	67317-04-17 16:48 G	26308196.05	26308196.20	26308196.39	0.0090	0.0056
Venus	67317-11-29 06:29 G	26308421.59	26308421.77	26308421.95	0.0090	0.0050
Venus	67318-07-12 19:41 G	26308647.14	26308647.32	26308647.52	0.0090	0.0045
Venus	67319-02-23 08:53 G	26308872.69	26308872.87	26308873.08	0.0090	0.0040
Venus	67319-10-06 22:34 G	26309098.24	26309098.44	26309098.64	0.0090	0.0034
Venus	67320-05-19 11:46 G	26309323.79	26309323.99	26309324.21	0.0090	0.0029
Venus	67320-12-31 00:58 G	26309549.34	26309549.54	26309549.76	0.0090	0.0024
Venus	67321-08-13 14:24 G	26309774.89	26309775.10	26309775.32	0.0090	0.0018
Venus	67322-03-27 03:51 G	26310000.45	26310000.66	26310000.88	0.0090	0.0013
Venus	67322-11-07 17:17 G	26310226.00	26310226.22	26310226.44	0.0090	0.0007
Venus	67323-06-21 06:29 G	26310451.55	26310451.77	26310451.99	0.0090	0.0002
Venus	67324-02-01 19:55 G	26310677.11	26310677.33	26310677.55	0.0090	0.0004



Venus	67324-09-14 09:07 G	26310902.67	26310902.88	26310903.10	0.0090	0.0009
Venus	67325-04-27 22:34 G	26311128.23	26311128.44	26311128.66	0.0090	0.0015
Venus	67325-12-09 11:46 G	26311353.79	26311353.99	26311354.22	0.0090	0.0021
Mercury	67326-02-10 00:15 G	26311416.46	26311416.51	26311416.58	0.0089	0.0082
Mercury	67326-05-09 02:24 G	26311504.51	26311504.60	26311504.68	0.0089	0.0073
Venus	67326-07-23 01:12 G	26311579.35	26311579.55	26311579.77	0.0089	0.0026
Mercury	67326-08-05 03:51 G	26311592.57	26311592.66	26311592.77	0.0089	0.0065
Mercury	67326-11-01 06:00 G	26311680.63	26311680.75	26311680.86	0.0089	0.0056
Mercury	67327-01-28 07:41 G	26311768.70	26311768.82	26311768.95	0.0089	0.0047
Venus	67327-03-05 14:39 G	26311804.91	26311805.11	26311805.32	0.0089	0.0031
Mercury	67327-04-26 09:22 G	26311856.77	26311856.89	26311857.03	0.0089	0.0039
Earth	67327-07-07 17:03 G	26311929.15	26311929.21	26311929.32	0.0089	0.0085
Moon	67327-07-07 20:10 G	26311929.24	26311929.34	26311929.48	0.0089	0.0080 *
Mercury	67327-07-23 11:17 G	26311944.83	26311944.97	26311945.11	0.0089	0.0031
Venus	67327-10-17 03:51 G	26312030.48	26312030.66	26312030.88	0.0089	0.0037
Mercury	67327-10-19 12:58 G	26312032.90	26312033.04	26312033.19	0.0089	0.0022
Mercury	67328-01-15 14:39 G	26312120.97	26312121.11	26312121.26	0.0089	0.0015
Mercury	67328-04-12 16:34 G	26312209.05	26312209.19	26312209.34	0.0089	0.0006
Venus	67328-05-29 17:31 G	26312256.04	26312256.23	26312256.43	0.0089	0.0042
Moon	67328-07-09 02:24 G	26312296.43	26312296.60	26312296.81	0.0089	0.0060
Earth	67328-07-09 04:48 G	26312296.52	26312296.70	26312296.93	0.0089	0.0055 *
Mercury	67328-07-09 18:15 G	26312297.12	26312297.26	26312297.41	0.0089	0.0003
Mercury	67328-10-05 19:55 G	26312385.19	26312385.33	26312385.48	0.0089	0.0011
Mercury	67329-01-01 21:36 G	26312473.27	26312473.40	26312473.55	0.0089	0.0020
Venus	67329-01-10 06:58 G	26312481.61	26312481.79	26312481.98	0.0089	0.0047
Mercury	67329-03-30 23:31 G	26312561.34	26312561.48	26312561.62	0.0089	0.0027
Mercury	67329-06-27 01:12 G	26312649.42	26312649.55	26312649.68	0.0089	0.0036
Earth	67329-07-11 16:48 G	26312663.96	26312664.20	26312664.45	0.0089	0.0025
Moon	67329-07-11 17:46 G	26312663.99	26312664.24	26312664.51	0.0089	0.0020 *
Venus	67329-08-23 19:55 G	26312707.17	26312707.33	26312707.53	0.0089	0.0053

Mercury	67329-09-23 02:53 G	26312737.50	26312737.62	26312737.75	0.0089	0.0044
Mercury	67329-12-20 04:34 G	26312825.57	26312825.69	26312825.81	0.0089	0.0052
Mercury	67330-03-18 06:00 G	26312913.66	26312913.75	26312913.87	0.0089	0.0060
Venus	67330-04-06 09:36 G	26312932.74	26312932.90	26312933.08	0.0089	0.0057
Mercury	67330-06-14 07:41 G	26313001.74	26313001.82	26313001.92	0.0089	0.0068
Earth	67330-07-14 04:34 G	26313031.43	26313031.69	26313031.94	0.0089	0.0005
Moon	67330-07-14 04:34 G	26313031.45	26313031.69	26313031.94	0.0089	0.0002 *
Mercury	67330-09-10 09:22 G	26313089.83	26313089.89	26313089.97	0.0089	0.0076
Venus	67330-11-17 23:03 G	26313158.31	26313158.46	26313158.63	0.0089	0.0063
Mercury	67330-12-07 10:48 G	26313177.92	26313177.95	26313178.01	0.0089	0.0085
Venus	67331-07-01 12:29 G	26313383.88	26313384.02	26313384.17	0.0089	0.0068
Moon	67331-07-16 14:53 G	26313398.89	26313399.12	26313399.37	0.0089	0.0039
Earth	67331-07-16 16:05 G	26313398.94	26313399.17	26313399.41	0.0089	0.0035 *
Venus	67332-02-12 01:55 G	26313609.45	26313609.58	26313609.70	0.0089	0.0073
Earth	67332-07-18 03:22 G	26313766.48	26313766.64	26313766.83	0.0089	0.0065
Moon	67332-07-18 05:31 G	26313766.58	26313766.73	26313766.94	0.0089	0.0061 *
Venus	67332-09-24 14:39 G	26313835.03	26313835.11	26313835.24	0.0089	0.0078
Venus	67333-05-08 04:05 G	26314060.61	26314060.67	26314060.77	0.0089	0.0083
Venus	67333-12-19 17:17 G	26314286.21	26314286.22	26314286.28	0.0089	0.0088
Mars	67361-11-21 00:43 G	26324484.24	26324484.53	26324484.86	0.0088	0.0021
Venus	67395-09-20 02:24 G	26336840.57	26336840.60	26336840.64	0.0088	0.0086
Venus	67396-05-02 14:39 G	26337066.05	26337066.11	26337066.21	0.0088	0.0082
Venus	67396-12-14 03:22 G	26337291.55	26337291.64	26337291.76	0.0088	0.0077
Venus	67397-07-27 16:05 G	26337517.06	26337517.17	26337517.31	0.0088	0.0072
Venus	67398-03-10 04:48 G	26337742.57	26337742.70	26337742.85	0.0088	0.0067
Venus	67398-10-21 17:46 G	26337968.09	26337968.24	26337968.39	0.0088	0.0062
Venus	67399-06-04 05:46 G	26338193.60	26338193.74	26338193.93	0.0088	0.0058
Venus	67400-01-15 18:29 G	26338419.12	26338419.27	26338419.47	0.0088	0.0053
Venus	67400-08-29 07:12 G	26338644.63	26338644.80	26338645.01	0.0088	0.0048
Venus	67401-04-11 19:55 G	26338870.15	26338870.33	26338870.54	0.0088	0.0043

Venus	67401-11-23 08:39 G	26339095.68	26339095.86	26339096.08	0.0088	0.0038
Venus	67402-07-06 21:36 G	26339321.20	26339321.40	26339321.61	0.0088	0.0032
Venus	67403-02-17 10:19 G	26339546.72	26339546.93	26339547.14	0.0088	0.0027
Venus	67403-09-30 23:03 G	26339772.25	26339772.46	26339772.68	0.0088	0.0022
Venus	67404-05-13 11:46 G	26339997.78	26339997.99	26339998.21	0.0088	0.0017
Venus	67404-12-25 00:29 G	26340223.30	26340223.52	26340223.74	0.0088	0.0012
Venus	67405-08-07 13:12 G	26340448.83	26340449.05	26340449.27	0.0088	0.0007
Venus	67406-03-21 01:55 G	26340674.36	26340674.58	26340674.80	0.0088	0.0002
Venus	67406-11-01 14:39 G	26340899.89	26340900.11	26340900.33	0.0088	0.0004
Venus	67407-06-15 03:22 G	26341125.42	26341125.64	26341125.86	0.0088	0.0009
Venus	67408-01-26 15:51 G	26341350.95	26341351.16	26341351.38	0.0088	0.0014
Venus	67408-09-08 04:34 G	26341576.48	26341576.69	26341576.91	0.0088	0.0019
Venus	67409-04-21 17:17 G	26341802.01	26341802.22	26341802.43	0.0088	0.0024
Mercury	67409-07-15 17:17 G	26341887.17	26341887.22	26341887.31	0.0088	0.0080
Mercury	67409-10-11 19:55 G	26341975.24	26341975.33	26341975.44	0.0088	0.0071
Venus	67409-12-03 05:46 G	26342027.54	26342027.74	26342027.95	0.0088	0.0029
Mercury	67410-01-07 22:34 G	26342063.33	26342063.44	26342063.57	0.0088	0.0062
Mercury	67410-04-06 00:58 G	26342151.42	26342151.54	26342151.69	0.0088	0.0053
Mercury	67410-07-03 03:36 G	26342239.51	26342239.65	26342239.81	0.0088	0.0044
Venus	67410-07-16 18:29 G	26342253.07	26342253.27	26342253.47	0.0088	0.0034
Mercury	67410-09-29 06:29 G	26342327.61	26342327.77	26342327.93	0.0088	0.0034
Mercury	67410-12-26 09:07 G	26342415.71	26342415.88	26342416.04	0.0088	0.0025
Earth	67411-01-10 12:43 G	26342430.91	26342431.03	26342431.20	0.0088	0.0072
Moon	67411-01-10 14:10 G	26342430.96	26342431.09	26342431.25	0.0088	0.0074 *
Venus	67411-02-27 07:12 G	26342478.60	26342478.80	26342478.99	0.0088	0.0039
Mercury	67411-03-24 11:31 G	26342503.82	26342503.98	26342504.16	0.0088	0.0016
Mercury	67411-06-20 14:10 G	26342591.92	26342592.09	26342592.27	0.0088	0.0007
Mercury	67411-09-16 16:48 G	26342680.03	26342680.20	26342680.38	0.0088	0.0004
Venus	67411-10-10 19:55 G	26342704.14	26342704.33	26342704.52	0.0088	0.0044
Mercury	67411-12-13 19:41 G	26342768.14	26342768.32	26342768.49	0.0088	0.0012

Moon	67412-01-13 00:00 G	26342798.29	26342798.50	26342798.74	0.0088	0.0041
Earth	67412-01-13 00:43 G	26342798.31	26342798.53	26342798.76	0.0088	0.0043 *
Mercury	67412-03-10 22:05 G	26342856.26	26342856.42	26342856.60	0.0088	0.0022
Venus	67412-05-23 08:39 G	26342929.67	26342929.86	26342930.04	0.0088	0.0049
Mercury	67412-06-07 00:43 G	26342944.38	26342944.53	26342944.70	0.0088	0.0031
Mercury	67412-09-03 03:22 G	26343032.50	26343032.64	26343032.80	0.0088	0.0041
Mercury	67412-11-30 06:15 G	26343120.62	26343120.76	26343120.91	0.0088	0.0050
Venus	67413-01-03 21:07 G	26343155.21	26343155.38	26343155.55	0.0088	0.0054
Moon	67413-01-14 11:03 G	26343165.70	26343165.96	26343166.23	0.0088	0.0017
Earth	67413-01-14 12:15 G	26343165.77	26343166.01	26343166.28	0.0088	0.0015 *
Mercury	67413-02-26 08:39 G	26343208.75	26343208.86	26343209.00	0.0088	0.0060
Mercury	67413-05-25 11:31 G	26343296.88	26343296.98	26343297.10	0.0088	0.0069
Venus	67413-08-17 09:36 G	26343380.75	26343380.90	26343381.07	0.0088	0.0059
Mercury	67413-08-21 14:10 G	26343385.03	26343385.09	26343385.18	0.0088	0.0079
Earth	67414-01-17 00:15 G	26343533.25	26343533.51	26343533.77	0.0088	0.0014
Moon	67414-01-17 02:10 G	26343533.35	26343533.59	26343533.85	0.0088	0.0017 *
Venus	67414-03-30 22:19 G	26343606.29	26343606.43	26343606.58	0.0088	0.0064
Venus	67414-11-11 11:03 G	26343831.84	26343831.96	26343832.10	0.0088	0.0069
Moon	67415-01-19 08:24 G	26343900.63	26343900.85	26343901.10	0.0088	0.0040
Earth	67415-01-19 11:31 G	26343900.76	26343900.98	26343901.22	0.0088	0.0043 *
Venus	67415-06-24 23:31 G	26344057.38	26344057.48	26344057.62	0.0088	0.0074
Earth	67416-01-21 22:48 G	26344268.33	26344268.45	26344268.62	0.0088	0.0072
Moon	67416-01-22 02:24 G	26344268.50	26344268.60	26344268.76	0.0088	0.0075 *
Venus	67416-02-05 12:15 G	26344282.93	26344283.01	26344283.12	0.0088	0.0079
Venus	67416-09-18 00:43 G	26344508.49	26344508.53	26344508.62	0.0088	0.0084
Jupiter	67443-02-10 00:43 G	26354148.98	26354149.53	26354150.08	0.0089	0.0001
Mars	67445-06-29 03:07 G	26355019.37	26355019.63	26355019.93	0.0089	0.0038
Venus	67477-11-05 16:19 G	26366837.13	26366837.18	26366837.24	0.0090	0.0086
Venus	67478-06-19 05:31 G	26367062.65	26367062.73	26367062.83	0.0090	0.0081
Venus	67479-01-30 18:43 G	26367288.18	26367288.28	26367288.41	0.0090	0.0076

Venus	67479-09-13 08:10 G	26367513.72	26367513.84	26367513.98	0.0090	0.0071
Venus	67480-04-25 21:22 G	26367739.26	26367739.39	26367739.56	0.0090	0.0066
Venus	67480-12-07 10:48 G	26367964.80	26367964.95	26367965.13	0.0090	0.0061
Venus	67481-07-21 00:29 G	26368190.35	26368190.52	26368190.69	0.0090	0.0055
Venus	67482-03-03 13:41 G	26368415.90	26368416.07	26368416.26	0.0090	0.0050
Venus	67482-10-15 03:07 G	26368641.45	26368641.63	26368641.83	0.0090	0.0045
Venus	67483-05-28 16:48 G	26368867.00	26368867.20	26368867.40	0.0090	0.0039
Venus	67484-01-09 06:00 G	26369092.55	26369092.75	26369092.96	0.0090	0.0034
Venus	67484-08-21 19:12 G	26369318.10	26369318.30	26369318.52	0.0090	0.0029
Venus	67485-04-04 08:53 G	26369543.66	26369543.87	26369544.08	0.0090	0.0023
Venus	67485-11-15 22:05 G	26369769.21	26369769.42	26369769.64	0.0090	0.0018
Venus	67486-06-29 11:31 G	26369994.76	26369994.98	26369995.20	0.0090	0.0012
Venus	67487-02-10 00:43 G	26370220.32	26370220.53	26370220.75	0.0090	0.0007
Venus	67487-09-23 14:10 G	26370445.87	26370446.09	26370446.31	0.0090	0.0001
Venus	67488-05-06 03:36 G	26370671.43	26370671.65	26370671.87	0.0090	0.0004
Venus	67488-12-17 16:48 G	26370896.99	26370897.20	26370897.43	0.0090	0.0010
Venus	67489-07-31 06:00 G	26371122.54	26371122.75	26371122.98	0.0090	0.0016
Venus	67490-03-13 19:27 G	26371348.10	26371348.31	26371348.53	0.0090	0.0021
Mercury	67490-08-11 20:53 G	26371499.36	26371499.37	26371499.41	0.0090	0.0089
Venus	67490-10-25 08:39 G	26371573.67	26371573.86	26371574.09	0.0089	0.0027
Mercury	67490-11-07 22:48 G	26371587.40	26371587.45	26371587.53	0.0089	0.0080
Mercury	67491-02-04 00:58 G	26371675.45	26371675.54	26371675.63	0.0089	0.0071
Mercury	67491-05-03 02:39 G	26371763.51	26371763.61	26371763.72	0.0089	0.0063
Venus	67491-06-07 22:05 G	26371799.23	26371799.42	26371799.64	0.0089	0.0032
Mercury	67491-07-30 04:34 G	26371851.57	26371851.69	26371851.81	0.0089	0.0054
Mercury	67491-10-26 06:15 G	26371939.64	26371939.76	26371939.89	0.0089	0.0046
Venus	67492-01-19 11:46 G	26372024.79	26372024.99	26372025.19	0.0089	0.0037
Mercury	67492-01-22 07:55 G	26372027.71	26372027.83	26372027.97	0.0089	0.0037
Mercury	67492-04-19 09:51 G	26372115.78	26372115.91	26372116.05	0.0089	0.0029
Earth	67492-07-09 09:36 G	26372196.77	26372196.90	26372197.08	0.0089	0.0071

Moon	67492-07-09 10:48 G	26372196.81	26372196.95	26372197.12	0.0089	0.0072 *
Mercury	67492-07-16 11:31 G	26372203.85	26372203.98	26372204.13	0.0089	0.0021
Venus	67492-09-01 00:43 G	26372250.35	26372250.53	26372250.74	0.0089	0.0043
Mercury	67492-10-12 13:27 G	26372291.92	26372292.06	26372292.21	0.0089	0.0012
Mercury	67493-01-08 15:07 G	26372379.99	26372380.13	26372380.28	0.0089	0.0004
Mercury	67493-04-06 17:03 G	26372468.06	26372468.21	26372468.35	0.0089	0.0005
Venus	67493-04-14 14:24 G	26372475.93	26372476.10	26372476.30	0.0089	0.0048
Mercury	67493-07-03 18:43 G	26372556.14	26372556.28	26372556.42	0.0089	0.0013
Earth	67493-07-11 21:36 G	26372564.18	26372564.40	26372564.64	0.0089	0.0041
Moon	67493-07-11 22:19 G	26372564.22	26372564.43	26372564.67	0.0089	0.0039 *
Mercury	67493-09-29 20:24 G	26372644.21	26372644.35	26372644.49	0.0089	0.0021
Venus	67493-11-26 04:05 G	26372701.49	26372701.67	26372701.85	0.0089	0.0053
Mercury	67493-12-26 22:05 G	26372732.29	26372732.42	26372732.56	0.0089	0.0030
Mercury	67494-03-24 23:46 G	26372820.36	26372820.49	26372820.62	0.0089	0.0038
Mercury	67494-06-21 01:27 G	26372908.44	26372908.56	26372908.69	0.0089	0.0046
Venus	67494-07-09 17:03 G	26372927.06	26372927.21	26372927.39	0.0089	0.0058
Moon	67494-07-14 07:27 G	26372931.56	26372931.81	26372932.08	0.0089	0.0013
Earth	67494-07-14 09:36 G	26372931.65	26372931.90	26372932.16	0.0089	0.0011 *
Mercury	67494-09-17 02:53 G	26372996.52	26372996.62	26372996.75	0.0089	0.0055
Mercury	67494-12-14 04:34 G	26373084.60	26373084.69	26373084.81	0.0089	0.0063
Venus	67495-02-20 06:29 G	26373152.63	26373152.77	26373152.94	0.0089	0.0064
Mercury	67495-03-12 06:15 G	26373172.69	26373172.76	26373172.86	0.0089	0.0071
Mercury	67495-06-08 07:55 G	26373260.78	26373260.83	26373260.91	0.0089	0.0079
Earth	67495-07-16 21:22 G	26373299.14	26373299.39	26373299.64	0.0089	0.0019
Moon	67495-07-16 23:46 G	26373299.25	26373299.49	26373299.74	0.0089	0.0020 *
Mercury	67495-09-04 09:36 G	26373348.88	26373348.90	26373348.95	0.0089	0.0087
Venus	67495-10-03 19:55 G	26373378.20	26373378.33	26373378.48	0.0089	0.0069
Venus	67496-05-16 09:36 G	26373603.78	26373603.90	26373604.03	0.0089	0.0074
Moon	67496-07-18 05:03 G	26373666.50	26373666.71	26373666.94	0.0089	0.0047
Earth	67496-07-18 08:39 G	26373666.66	26373666.86	26373667.09	0.0089	0.0049 *

Venus	67496-12-27 23:03 G	26373829.36	26373829.46	26373829.56	0.0089	0.0079
Earth	67497-07-20 19:55 G	26374034.23	26374034.33	26374034.48	0.0089	0.0079
Moon	67497-07-20 23:17 G	26374034.39	26374034.47	26374034.61	0.0089	0.0081 *
Venus	67497-08-10 11:46 G	26374054.94	26374054.99	26374055.09	0.0089	0.0084
Venus	67498-03-24 01:27 G	26374280.56	26374280.56	26374280.59	0.0089	0.0089
Saturn	67525-06-14 13:12 G	26384223.37	26384224.05	26384224.75	0.0088	0.0007
Mars	67525-07-07 04:48 G	26384246.45	26384246.70	26384247.00	0.0088	0.0045
Venus	67559-12-24 11:17 G	26396834.94	26396834.97	26396835.03	0.0088	0.0086
Venus	67560-08-06 00:15 G	26397060.43	26397060.51	26397060.59	0.0088	0.0081
Venus	67561-03-19 12:29 G	26397285.94	26397286.02	26397286.15	0.0088	0.0077
Venus	67561-10-31 01:12 G	26397511.45	26397511.55	26397511.70	0.0088	0.0072
Venus	67562-06-13 13:55 G	26397736.96	26397737.08	26397737.25	0.0088	0.0067
Venus	67563-01-25 02:39 G	26397962.48	26397962.61	26397962.79	0.0088	0.0062
Venus	67563-09-07 15:36 G	26398187.99	26398188.15	26398188.33	0.0088	0.0057
Venus	67564-04-20 04:19 G	26398413.51	26398413.68	26398413.87	0.0088	0.0052
Venus	67564-12-01 16:48 G	26398639.03	26398639.20	26398639.40	0.0088	0.0047
Venus	67565-07-15 05:31 G	26398864.55	26398864.73	26398864.94	0.0088	0.0042
Venus	67566-02-25 18:15 G	26399090.07	26399090.26	26399090.47	0.0088	0.0037
Venus	67566-10-09 06:58 G	26399315.60	26399315.79	26399316.01	0.0088	0.0032
Venus	67567-05-22 19:41 G	26399541.12	26399541.32	26399541.54	0.0088	0.0027
Venus	67568-01-03 08:24 G	26399766.64	26399766.85	26399767.07	0.0088	0.0021
Venus	67568-08-15 21:07 G	26399992.17	26399992.38	26399992.60	0.0088	0.0016
Venus	67569-03-29 09:51 G	26400217.70	26400217.91	26400218.13	0.0088	0.0011
Venus	67569-11-09 22:48 G	26400443.23	26400443.45	26400443.67	0.0088	0.0006
Venus	67570-06-23 11:31 G	26400668.76	26400668.98	26400669.20	0.0088	0.0001
Venus	67571-02-04 00:00 G	26400894.28	26400894.50	26400894.73	0.0088	0.0005
Venus	67571-09-17 12:43 G	26401119.82	26401120.03	26401120.26	0.0088	0.0010
Venus	67572-04-30 01:27 G	26401345.35	26401345.56	26401345.78	0.0088	0.0015
Venus	67572-12-11 14:10 G	26401570.88	26401571.09	26401571.31	0.0088	0.0020
Venus	67573-07-25 02:53 G	26401796.41	26401796.62	26401796.83	0.0088	0.0025

Mercury	67574-01-14 13:12 G	26401970.02	26401970.05	26401970.11	0.0088	0.0085
Venus	67574-03-07 15:07 G	26402021.94	26402022.13	26402022.35	0.0088	0.0031
Mercury	67574-04-12 15:51 G	26402058.09	26402058.16	26402058.25	0.0088	0.0076
Mercury	67574-07-09 18:15 G	26402146.17	26402146.26	26402146.38	0.0088	0.0067
Mercury	67574-10-05 20:53 G	26402234.25	26402234.37	26402234.51	0.0088	0.0058
Venus	67574-10-19 04:05 G	26402247.48	26402247.67	26402247.88	0.0088	0.0036
Mercury	67575-01-01 23:31 G	26402322.35	26402322.48	26402322.63	0.0088	0.0049
Earth	67575-01-10 19:12 G	26402331.27	26402331.30	26402331.38	0.0088	0.0086
Mercury	67575-03-31 01:55 G	26402410.44	26402410.58	26402410.75	0.0088	0.0040
Venus	67575-06-01 16:34 G	26402473.01	26402473.19	26402473.40	0.0088	0.0041
Mercury	67575-06-27 04:34 G	26402498.54	26402498.69	26402498.86	0.0088	0.0031
Mercury	67575-09-23 07:27 G	26402586.64	26402586.81	26402586.98	0.0088	0.0021
Mercury	67575-12-20 10:05 G	26402674.75	26402674.92	26402675.09	0.0088	0.0012
Venus	67576-01-13 05:03 G	26402698.54	26402698.71	26402698.92	0.0088	0.0046
Moon	67576-01-13 05:46 G	26402698.54	26402698.74	26402698.97	0.0088	0.0053 *
Earth	67576-01-13 06:58 G	26402698.62	26402698.79	26402699.01	0.0088	0.0058 *
Mercury	67576-03-17 12:43 G	26402762.85	26402763.03	26402763.20	0.0088	0.0003
Mercury	67576-06-13 15:22 G	26402850.96	26402851.14	26402851.31	0.0088	0.0007
Venus	67576-08-25 17:46 G	26402924.08	26402924.24	26402924.43	0.0088	0.0051
Mercury	67576-09-09 17:46 G	26402939.08	26402939.24	26402939.42	0.0088	0.0016
Mercury	67576-12-06 20:24 G	26403027.19	26403027.35	26403027.52	0.0088	0.0026
Earth	67577-01-14 18:58 G	26403066.05	26403066.29	26403066.54	0.0088	0.0029
Moon	67577-01-14 21:51 G	26403066.18	26403066.41	26403066.65	0.0088	0.0033 *
Mercury	67577-03-04 23:03 G	26403115.31	26403115.46	26403115.63	0.0088	0.0035
Venus	67577-04-08 06:15 G	26403149.61	26403149.76	26403149.95	0.0088	0.0056
Mercury	67577-06-01 01:55 G	26403203.43	26403203.58	26403203.73	0.0088	0.0044
Mercury	67577-08-28 04:19 G	26403291.55	26403291.68	26403291.83	0.0088	0.0054
Venus	67577-11-19 18:58 G	26403375.15	26403375.29	26403375.47	0.0088	0.0061
Mercury	67577-11-24 07:12 G	26403379.68	26403379.80	26403379.92	0.0088	0.0063
Moon	67578-01-17 03:22 G	26403433.37	26403433.64	26403433.90	0.0088	0.0004



Earth	67578-01-17 06:43 G	26403433.52	26403433.78	26403434.04	0.0088	0.0000	*
Mercury	67578-02-20 09:36 G	26403467.82	26403467.90	26403468.01	0.0088	0.0073	
Mercury	67578-05-19 12:43 G	26403555.97	26403556.03	26403556.09	0.0088	0.0082	
Venus	67578-07-03 07:41 G	26403600.69	26403600.82	26403600.98	0.0088	0.0066	
Earth	67579-01-19 17:46 G	26403801.01	26403801.24	26403801.51	0.0088	0.0029	
Moon	67579-01-19 21:22 G	26403801.16	26403801.39	26403801.66	0.0088	0.0025	*
Venus	67579-02-13 20:10 G	26403826.23	26403826.34	26403826.49	0.0088	0.0071	
Venus	67579-09-27 09:22 G	26404051.78	26404051.89	26404052.00	0.0088	0.0075	
Moon	67580-01-22 01:55 G	26404168.42	26404168.58	26404168.78	0.0088	0.0062	
Earth	67580-01-22 05:31 G	26404168.55	26404168.73	26404168.95	0.0088	0.0057	*
Venus	67580-05-09 21:51 G	26404277.33	26404277.41	26404277.51	0.0088	0.0080	
Venus	67580-12-21 10:19 G	26404502.90	26404502.93	26404503.00	0.0088	0.0085	
Earth	67581-01-23 16:48 G	26404536.18	26404536.20	26404536.28	0.0088	0.0086	
Moon	67581-01-23 19:27 G	26404536.25	26404536.31	26404536.44	0.0088	0.0082	*
Mars	67609-02-11 19:27 G	26414782.03	26414782.31	26414782.62	0.0089	0.0027	
Jupiter	67609-04-12 22:48 G	26414841.95	26414842.45	26414843.01	0.0089	0.0025	
Venus	67642-02-08 00:29 G	26426831.47	26426831.52	26426831.59	0.0090	0.0086	
Venus	67642-09-21 13:41 G	26427056.99	26427057.07	26427057.18	0.0090	0.0081	
Venus	67643-05-05 03:07 G	26427282.53	26427282.63	26427282.76	0.0090	0.0076	
Venus	67643-12-16 16:19 G	26427508.06	26427508.18	26427508.33	0.0090	0.0071	
Venus	67644-07-29 05:31 G	26427733.60	26427733.73	26427733.90	0.0090	0.0066	
Venus	67645-03-11 19:12 G	26427959.15	26427959.30	26427959.47	0.0090	0.0060	
Venus	67645-10-23 08:24 G	26428184.69	26428184.85	26428185.04	0.0090	0.0055	
Venus	67646-06-05 21:36 G	26428410.24	26428410.40	26428410.60	0.0090	0.0050	
Venus	67647-01-17 11:17 G	26428635.78	26428635.97	26428636.17	0.0090	0.0044	
Venus	67647-08-31 00:29 G	26428861.34	26428861.52	26428861.73	0.0090	0.0039	
Venus	67648-04-12 13:55 G	26429086.89	26429087.08	26429087.30	0.0090	0.0034	
Venus	67648-11-24 03:36 G	26429312.44	26429312.65	26429312.86	0.0090	0.0028	
Venus	67649-07-07 16:48 G	26429538.00	26429538.20	26429538.42	0.0090	0.0023	
Venus	67650-02-18 06:15 G	26429763.55	26429763.76	26429763.98	0.0090	0.0017	

Venus	67650-10-01 19:41 G	26429989.10	26429989.32	26429989.54	0.0090	0.0011
Venus	67651-05-15 09:07 G	26430214.66	26430214.88	26430215.10	0.0090	0.0006
Venus	67651-12-26 22:19 G	26430440.21	26430440.43	26430440.65	0.0090	0.0002
Venus	67652-08-08 11:46 G	26430665.77	26430665.99	26430666.21	0.0090	0.0005
Venus	67653-03-22 00:58 G	26430891.33	26430891.54	26430891.76	0.0090	0.0011
Venus	67653-11-02 14:24 G	26431116.88	26431117.10	26431117.32	0.0090	0.0016
Venus	67654-06-16 03:36 G	26431342.44	26431342.65	26431342.87	0.0090	0.0022
Venus	67655-01-27 17:03 G	26431568.00	26431568.21	26431568.42	0.0090	0.0027
Mercury	67655-05-09 19:55 G	26431670.29	26431670.33	26431670.37	0.0090	0.0086
Mercury	67655-08-05 21:36 G	26431758.34	26431758.40	26431758.48	0.0090	0.0077
Venus	67655-09-10 06:00 G	26431793.56	26431793.75	26431793.97	0.0090	0.0033
Mercury	67655-11-01 23:31 G	26431846.39	26431846.48	26431846.58	0.0090	0.0069
Mercury	67656-01-29 01:12 G	26431934.45	26431934.55	26431934.67	0.0090	0.0061
Venus	67656-04-22 19:41 G	26432019.13	26432019.32	26432019.52	0.0089	0.0038
Mercury	67656-04-26 03:07 G	26432022.52	26432022.63	26432022.76	0.0089	0.0052
Earth	67656-07-09 15:36 G	26432097.09	26432097.15	26432097.23	0.0089	0.0086
Moon	67656-07-09 16:34 G	26432097.12	26432097.19	26432097.30	0.0089	0.0083 *
Mercury	67656-07-23 04:48 G	26432110.58	26432110.70	26432110.84	0.0089	0.0044
Mercury	67656-10-19 06:58 G	26432198.65	26432198.79	26432198.92	0.0089	0.0035
Venus	67656-12-04 09:07 G	26432244.69	26432244.88	26432245.07	0.0089	0.0043
Mercury	67657-01-15 08:39 G	26432286.72	26432286.86	26432287.00	0.0089	0.0026
Mercury	67657-04-13 10:19 G	26432374.79	26432374.93	26432375.08	0.0089	0.0018
Mercury	67657-07-10 12:15 G	26432462.86	26432463.01	26432463.15	0.0089	0.0010
Moon	67657-07-12 00:29 G	26432464.35	26432464.52	26432464.73	0.0089	0.0061
Earth	67657-07-12 02:53 G	26432464.45	26432464.62	26432464.84	0.0089	0.0057 *
Venus	67657-07-17 22:05 G	26432470.25	26432470.42	26432470.62	0.0089	0.0049
Mercury	67657-10-06 13:55 G	26432550.94	26432551.08	26432551.23	0.0089	0.0002
Mercury	67658-01-02 15:36 G	26432639.01	26432639.15	26432639.30	0.0089	0.0007
Venus	67658-02-28 11:31 G	26432695.82	26432695.98	26432696.17	0.0089	0.0054
Mercury	67658-03-31 17:17 G	26432727.08	26432727.22	26432727.37	0.0089	0.0016

Mercury	67658-06-27 19:12 G	26432815.16	26432815.30	26432815.44	0.0089	0.0023
Earth	67658-07-14 14:53 G	26432831.88	26432832.12	26432832.37	0.0089	0.0027
Moon	67658-07-14 18:00 G	26432832.02	26432832.25	26432832.51	0.0089	0.0023 *
Mercury	67658-09-23 20:53 G	26432903.24	26432903.37	26432903.50	0.0089	0.0032
Venus	67658-10-12 01:12 G	26432921.38	26432921.55	26432921.71	0.0089	0.0059
Mercury	67658-12-20 22:34 G	26432991.31	26432991.44	26432991.57	0.0089	0.0040
Mercury	67659-03-19 00:00 G	26433079.39	26433079.50	26433079.63	0.0089	0.0049
Venus	67659-05-25 14:10 G	26433146.96	26433147.09	26433147.26	0.0089	0.0065
Mercury	67659-06-15 01:41 G	26433167.47	26433167.57	26433167.69	0.0089	0.0057
Moon	67659-07-16 23:17 G	26433199.21	26433199.47	26433199.73	0.0089	0.0001
Earth	67659-07-17 02:39 G	26433199.36	26433199.61	26433199.87	0.0089	0.0003 *
Mercury	67659-09-11 03:22 G	26433255.56	26433255.64	26433255.75	0.0089	0.0065
Mercury	67659-12-08 05:03 G	26433343.64	26433343.71	26433343.81	0.0089	0.0073
Venus	67660-01-06 03:36 G	26433372.53	26433372.65	26433372.81	0.0089	0.0070
Mercury	67660-03-05 06:43 G	26433431.73	26433431.78	26433431.86	0.0089	0.0081
Mercury	67660-06-01 08:24 G	26433519.85	26433519.85	26433519.88	0.0089	0.0089
Earth	67660-07-18 14:10 G	26433566.86	26433567.09	26433567.33	0.0089	0.0033
Moon	67660-07-18 17:31 G	26433567.02	26433567.23	26433567.48	0.0089	0.0038 *
Venus	67660-08-18 17:03 G	26433598.11	26433598.21	26433598.35	0.0089	0.0075
Venus	67661-04-01 06:43 G	26433823.69	26433823.78	26433823.88	0.0089	0.0080
Moon	67661-07-20 23:03 G	26433934.29	26433934.46	26433934.66	0.0089	0.0059
Earth	67661-07-21 01:41 G	26433934.40	26433934.57	26433934.77	0.0089	0.0063 *
Venus	67661-11-12 20:24 G	26434049.28	26434049.35	26434049.41	0.0089	0.0085
Mars	67691-01-14 10:19 G	26444703.67	26444703.93	26444704.24	0.0088	0.0040
Venus	67724-03-27 20:24 G	26456829.33	26456829.35	26456829.42	0.0088	0.0086
Venus	67724-11-08 09:22 G	26457054.82	26457054.89	26457054.99	0.0088	0.0081
Venus	67725-06-21 22:05 G	26457280.33	26457280.42	26457280.55	0.0088	0.0076
Venus	67726-02-02 11:03 G	26457505.84	26457505.96	26457506.10	0.0088	0.0071
Venus	67726-09-15 23:46 G	26457731.36	26457731.49	26457731.65	0.0088	0.0066
Venus	67727-04-29 12:29 G	26457956.88	26457957.02	26457957.19	0.0088	0.0061

Venus	67727-12-11 01:12 G	26458182.39	26458182.55	26458182.73	0.0088	0.0056
Venus	67728-07-23 13:55 G	26458407.91	26458408.08	26458408.27	0.0088	0.0051
Venus	67729-03-06 02:39 G	26458633.43	26458633.61	26458633.80	0.0088	0.0046
Venus	67729-10-17 15:22 G	26458858.95	26458859.14	26458859.34	0.0088	0.0041
Venus	67730-05-31 04:05 G	26459084.47	26459084.67	26459084.88	0.0088	0.0036
Venus	67731-01-11 16:34 G	26459309.99	26459310.19	26459310.41	0.0088	0.0031
Venus	67731-08-25 05:17 G	26459535.52	26459535.72	26459535.94	0.0088	0.0026
Venus	67732-04-06 18:00 G	26459761.04	26459761.25	26459761.47	0.0088	0.0020
Venus	67732-11-18 06:43 G	26459986.57	26459986.78	26459987.00	0.0088	0.0015
Venus	67733-07-01 19:27 G	26460212.09	26460212.31	26460212.53	0.0088	0.0010
Venus	67734-02-12 08:10 G	26460437.62	26460437.84	26460438.06	0.0088	0.0005
Venus	67734-09-25 20:53 G	26460663.15	26460663.37	26460663.60	0.0088	0.0002
Venus	67735-05-09 09:36 G	26460888.68	26460888.90	26460889.12	0.0088	0.0006
Venus	67735-12-20 22:19 G	26461114.21	26461114.43	26461114.65	0.0088	0.0011
Venus	67736-08-02 11:03 G	26461339.74	26461339.96	26461340.18	0.0088	0.0016
Venus	67737-03-15 23:46 G	26461565.28	26461565.49	26461565.70	0.0088	0.0021
Venus	67737-10-27 12:43 G	26461790.82	26461791.03	26461791.24	0.0088	0.0026
Venus	67738-06-10 00:58 G	26462016.35	26462016.54	26462016.76	0.0088	0.0032
Mercury	67738-10-12 11:46 G	26462140.94	26462140.99	26462141.06	0.0088	0.0081
Mercury	67739-01-08 14:10 G	26462229.01	26462229.09	26462229.20	0.0088	0.0072
Venus	67739-01-21 13:41 G	26462241.88	26462242.07	26462242.28	0.0088	0.0037
Mercury	67739-04-06 16:48 G	26462317.09	26462317.20	26462317.33	0.0088	0.0063
Mercury	67739-07-03 19:12 G	26462405.18	26462405.30	26462405.45	0.0088	0.0054
Venus	67739-09-04 02:24 G	26462467.42	26462467.60	26462467.80	0.0088	0.0042
Mercury	67739-09-29 21:51 G	26462493.27	26462493.41	26462493.57	0.0088	0.0045
Mercury	67739-12-27 00:29 G	26462581.37	26462581.52	26462581.68	0.0088	0.0036
Earth	67740-01-13 14:10 G	26462598.96	26462599.09	26462599.26	0.0088	0.0071
Moon	67740-01-13 16:48 G	26462599.08	26462599.20	26462599.37	0.0088	0.0073 *
Mercury	67740-03-24 03:07 G	26462669.47	26462669.63	26462669.80	0.0088	0.0026
Venus	67740-04-16 14:53 G	26462692.95	26462693.12	26462693.32	0.0088	0.0047

Mercury	67740-06-20 05:46 G	26462757.58	26462757.74	26462757.91	0.0088	0.0017
Mercury	67740-09-16 08:24 G	26462845.68	26462845.85	26462846.02	0.0088	0.0008
Venus	67740-11-28 03:51 G	26462918.49	26462918.66	26462918.85	0.0088	0.0052
Mercury	67740-12-13 11:03 G	26462933.79	26462933.96	26462934.13	0.0088	0.0002
Moon	67741-01-14 22:19 G	26462966.21	26462966.43	26462966.67	0.0088	0.0041
Earth	67741-01-15 01:41 G	26462966.37	26462966.57	26462966.82	0.0088	0.0043 *
Mercury	67741-03-11 13:41 G	26463021.90	26463022.07	26463022.24	0.0088	0.0011
Mercury	67741-06-07 16:19 G	26463110.01	26463110.18	26463110.35	0.0088	0.0020
Venus	67741-07-11 16:19 G	26463144.03	26463144.18	26463144.36	0.0088	0.0057
Mercury	67741-09-03 18:43 G	26463198.13	26463198.28	26463198.45	0.0088	0.0030
Mercury	67741-11-30 21:22 G	26463286.25	26463286.39	26463286.56	0.0088	0.0039
Earth	67742-01-17 13:41 G	26463333.82	26463334.07	26463334.34	0.0088	0.0014
Moon	67742-01-17 17:17 G	26463333.97	26463334.22	26463334.48	0.0088	0.0015 *
Venus	67742-02-22 05:03 G	26463369.57	26463369.71	26463369.88	0.0088	0.0062
Mercury	67742-02-27 00:00 G	26463374.37	26463374.50	26463374.66	0.0088	0.0049
Mercury	67742-05-26 02:39 G	26463462.49	26463462.61	26463462.75	0.0088	0.0058
Mercury	67742-08-22 05:17 G	26463550.63	26463550.72	26463550.85	0.0088	0.0068
Venus	67742-10-05 17:46 G	26463595.11	26463595.24	26463595.39	0.0088	0.0067
Mercury	67742-11-18 08:10 G	26463638.77	26463638.84	26463638.93	0.0088	0.0077
Moon	67743-01-19 22:05 G	26463701.18	26463701.42	26463701.69	0.0088	0.0017
Earth	67743-01-20 01:27 G	26463701.31	26463701.56	26463701.82	0.0088	0.0015 *
Mercury	67743-02-14 10:34 G	26463726.93	26463726.94	26463726.99	0.0088	0.0087
Venus	67743-05-19 06:15 G	26463820.66	26463820.76	26463820.91	0.0088	0.0072
Venus	67743-12-30 18:58 G	26464046.20	26464046.29	26464046.41	0.0088	0.0077
Earth	67744-01-22 12:58 G	26464068.82	26464069.04	26464069.28	0.0088	0.0043
Moon	67744-01-22 15:36 G	26464068.93	26464069.15	26464069.40	0.0088	0.0041 *
Venus	67744-08-12 07:27 G	26464271.75	26464271.81	26464271.91	0.0088	0.0082
Moon	67745-01-23 23:46 G	26464436.36	26464436.49	26464436.63	0.0088	0.0073
Earth	67745-01-24 00:15 G	26464436.39	26464436.51	26464436.69	0.0088	0.0072 *
Venus	67745-03-25 20:24 G	26464497.32	26464497.35	26464497.40	0.0088	0.0086

Mars	67774-08-23 01:55 G	26475239.35	26475239.58	26475239.82	0.0089	0.0057
Jupiter	67775-06-18 02:10 G	26475538.15	26475538.59	26475539.04	0.0089	0.0053
Venus	67806-05-14 09:07 G	26486825.83	26486825.88	26486825.96	0.0090	0.0086
Venus	67806-12-25 22:19 G	26487051.35	26487051.43	26487051.54	0.0090	0.0081
Venus	67807-08-08 11:31 G	26487276.88	26487276.98	26487277.11	0.0090	0.0076
Venus	67808-03-21 00:43 G	26487502.42	26487502.53	26487502.69	0.0090	0.0071
Venus	67808-11-01 14:39 G	26487727.96	26487728.11	26487728.26	0.0090	0.0065
Venus	67809-06-15 03:36 G	26487953.50	26487953.65	26487953.83	0.0090	0.0060
Venus	67810-01-26 16:48 G	26488179.04	26488179.20	26488179.39	0.0090	0.0055
Venus	67810-09-09 06:29 G	26488404.59	26488404.77	26488404.96	0.0090	0.0049
Venus	67811-04-22 19:41 G	26488630.14	26488630.32	26488630.52	0.0090	0.0044
Venus	67811-12-04 08:53 G	26488855.69	26488855.87	26488856.09	0.0090	0.0039
Venus	67812-07-16 22:34 G	26489081.24	26489081.44	26489081.65	0.0090	0.0033
Venus	67813-02-27 11:46 G	26489306.79	26489306.99	26489307.21	0.0090	0.0028
Venus	67813-10-11 01:27 G	26489532.35	26489532.56	26489532.78	0.0090	0.0022
Venus	67814-05-24 14:53 G	26489757.91	26489758.12	26489758.34	0.0090	0.0016
Venus	67815-01-05 04:19 G	26489983.46	26489983.68	26489983.90	0.0090	0.0011
Venus	67815-08-18 17:31 G	26490209.02	26490209.23	26490209.46	0.0090	0.0006
Venus	67816-03-31 07:12 G	26490434.58	26490434.80	26490435.02	0.0090	0.0001
Venus	67816-11-11 20:39 G	26490660.14	26490660.36	26490660.57	0.0090	0.0006
Venus	67817-06-25 09:36 G	26490885.69	26490885.90	26490886.13	0.0090	0.0012
Venus	67818-02-05 23:03 G	26491111.25	26491111.46	26491111.68	0.0090	0.0017
Venus	67818-09-19 12:15 G	26491336.81	26491337.01	26491337.23	0.0090	0.0023
Venus	67819-05-03 01:41 G	26491562.37	26491562.57	26491562.79	0.0090	0.0028
Venus	67819-12-14 14:53 G	26491787.93	26491788.12	26491788.34	0.0090	0.0034
Mercury	67820-02-05 18:43 G	26491841.24	26491841.28	26491841.34	0.0090	0.0083
Mercury	67820-05-03 20:39 G	26491929.28	26491929.36	26491929.45	0.0090	0.0074
Venus	67820-07-27 04:19 G	26492013.49	26492013.68	26492013.89	0.0090	0.0039
Mercury	67820-07-30 22:19 G	26492017.34	26492017.43	26492017.54	0.0090	0.0066
Mercury	67820-10-27 00:29 G	26492105.41	26492105.52	26492105.63	0.0090	0.0057

Mercury	67821-01-23 02:10 G	26492193.47	26492193.59	26492193.72	0.0089	0.0048
Venus	67821-03-09 17:46 G	26492239.05	26492239.24	26492239.43	0.0089	0.0044
Mercury	67821-04-21 03:51 G	26492281.54	26492281.66	26492281.80	0.0089	0.0040
Earth	67821-07-13 09:36 G	26492364.78	26492364.90	26492365.08	0.0089	0.0072
Moon	67821-07-13 13:12 G	26492364.93	26492365.05	26492365.21	0.0089	0.0075 *
Mercury	67821-07-18 05:46 G	26492369.61	26492369.74	26492369.88	0.0089	0.0032
Mercury	67821-10-14 07:27 G	26492457.68	26492457.81	26492457.96	0.0089	0.0024
Venus	67821-10-21 06:43 G	26492464.62	26492464.78	26492464.98	0.0089	0.0050
Mercury	67822-01-10 09:22 G	26492545.75	26492545.89	26492546.04	0.0089	0.0015
Mercury	67822-04-08 11:03 G	26492633.82	26492633.96	26492634.11	0.0089	0.0007
Venus	67822-06-03 20:24 G	26492690.19	26492690.35	26492690.53	0.0089	0.0055
Mercury	67822-07-05 12:58 G	26492721.89	26492722.04	26492722.18	0.0089	0.0002
Moon	67822-07-15 18:00 G	26492732.03	26492732.25	26492732.49	0.0089	0.0038
Earth	67822-07-15 21:36 G	26492732.18	26492732.40	26492732.63	0.0089	0.0042 *
Mercury	67822-10-01 14:39 G	26492809.97	26492810.11	26492810.26	0.0089	0.0010
Mercury	67822-12-28 16:19 G	26492898.04	26492898.18	26492898.33	0.0089	0.0018
Venus	67823-01-15 09:22 G	26492915.75	26492915.89	26492916.08	0.0089	0.0061
Mercury	67823-03-26 18:00 G	26492986.12	26492986.25	26492986.39	0.0089	0.0027
Mercury	67823-06-22 19:55 G	26493074.20	26493074.33	26493074.46	0.0089	0.0035
Earth	67823-07-18 09:07 G	26493099.63	26493099.88	26493100.14	0.0089	0.0012
Moon	67823-07-18 12:29 G	26493099.76	26493100.02	26493100.28	0.0089	0.0015 *
Venus	67823-08-28 22:48 G	26493141.32	26493141.45	26493141.62	0.0089	0.0066
Mercury	67823-09-18 21:36 G	26493162.27	26493162.40	26493162.53	0.0089	0.0043
Mercury	67823-12-15 23:03 G	26493250.35	26493250.46	26493250.59	0.0089	0.0051
Mercury	67824-03-13 00:43 G	26493338.44	26493338.53	26493338.65	0.0089	0.0060
Venus	67824-04-10 12:29 G	26493366.89	26493367.02	26493367.16	0.0089	0.0071
Mercury	67824-06-09 02:24 G	26493426.52	26493426.60	26493426.71	0.0089	0.0068
Moon	67824-07-19 18:00 G	26493467.01	26493467.25	26493467.50	0.0089	0.0020
Earth	67824-07-19 20:39 G	26493467.12	26493467.36	26493467.62	0.0089	0.0018 *
Mercury	67824-09-05 04:05 G	26493514.61	26493514.67	26493514.76	0.0089	0.0076

Venus	67824-11-22 01:55 G	26493592.47	26493592.58	26493592.70	0.0089	0.0076
Mercury	67824-12-02 05:46 G	26493602.70	26493602.74	26493602.80	0.0089	0.0084
Venus	67825-07-05 14:53 G	26493818.05	26493818.12	26493818.23	0.0089	0.0081
Earth	67825-07-22 08:10 G	26493834.64	26493834.84	26493835.07	0.0089	0.0047
Moon	67825-07-22 09:22 G	26493834.68	26493834.89	26493835.14	0.0089	0.0044 *
Venus	67826-02-16 04:19 G	26494043.64	26494043.68	26494043.76	0.0089	0.0086
Moon	67826-07-24 19:12 G	26494202.21	26494202.30	26494202.44	0.0089	0.0080
Earth	67826-07-24 19:55 G	26494202.21	26494202.33	26494202.47	0.0089	0.0077 *
Mars	67854-08-30 16:19 G	26504465.88	26504466.18	26504466.49	0.0088	0.0026
Venus	67888-06-30 06:43 G	26516823.73	26516823.78	26516823.83	0.0088	0.0085
Venus	67889-02-10 18:58 G	26517049.23	26517049.29	26517049.40	0.0088	0.0081
Venus	67889-09-24 07:55 G	26517274.74	26517274.83	26517274.97	0.0088	0.0076
Venus	67890-05-07 20:39 G	26517500.26	26517500.36	26517500.52	0.0088	0.0071
Venus	67890-12-19 09:36 G	26517725.77	26517725.90	26517726.06	0.0088	0.0066
Venus	67891-08-01 22:19 G	26517951.29	26517951.43	26517951.60	0.0088	0.0061
Venus	67892-03-14 11:03 G	26518176.81	26518176.96	26518177.15	0.0088	0.0056
Venus	67892-10-25 23:46 G	26518402.33	26518402.49	26518402.69	0.0088	0.0051
Venus	67893-06-08 12:58 G	26518627.85	26518628.04	26518628.23	0.0088	0.0045
Venus	67894-01-20 01:41 G	26518853.37	26518853.57	26518853.77	0.0088	0.0040
Venus	67894-09-02 14:10 G	26519078.90	26519079.09	26519079.30	0.0088	0.0035
Venus	67895-04-16 02:53 G	26519304.42	26519304.62	26519304.84	0.0088	0.0030
Venus	67895-11-27 15:36 G	26519529.94	26519530.15	26519530.37	0.0088	0.0025
Venus	67896-07-10 04:05 G	26519755.47	26519755.67	26519755.90	0.0088	0.0020
Venus	67897-02-20 17:03 G	26519980.99	26519981.21	26519981.43	0.0088	0.0014
Venus	67897-10-04 05:46 G	26520206.52	26520206.74	26520206.96	0.0088	0.0009
Venus	67898-05-17 18:29 G	26520432.05	26520432.27	26520432.49	0.0088	0.0004
Venus	67898-12-29 06:58 G	26520657.57	26520657.79	26520658.02	0.0088	0.0002
Venus	67899-08-11 19:41 G	26520883.10	26520883.32	26520883.54	0.0088	0.0007
Venus	67900-03-25 08:24 G	26521108.63	26521108.85	26521109.07	0.0088	0.0012
Venus	67900-11-05 21:07 G	26521334.17	26521334.38	26521334.60	0.0088	0.0017



Venus	67901-06-19 09:51 G	26521559.70	26521559.91	26521560.13	0.0088	0.0022
Venus	67902-01-30 22:19 G	26521785.23	26521785.43	26521785.65	0.0088	0.0028
Venus	67902-09-13 11:03 G	26522010.77	26522010.96	26522011.17	0.0088	0.0033
Mercury	67903-04-14 07:41 G	26522223.80	26522223.82	26522223.87	0.0088	0.0086
Venus	67903-04-26 23:46 G	26522236.30	26522236.49	26522236.70	0.0088	0.0038
Mercury	67903-07-11 10:05 G	26522311.86	26522311.92	26522312.02	0.0088	0.0077
Mercury	67903-10-07 12:43 G	26522399.94	26522400.03	26522400.15	0.0088	0.0068
Venus	67903-12-08 12:29 G	26522461.84	26522462.02	26522462.22	0.0088	0.0043
Mercury	67904-01-03 15:07 G	26522488.02	26522488.13	26522488.27	0.0088	0.0059
Earth	67904-01-14 21:07 G	26522499.35	26522499.38	26522499.48	0.0088	0.0085
Mercury	67904-03-31 17:46 G	26522576.12	26522576.24	26522576.40	0.0088	0.0050
Mercury	67904-06-27 20:39 G	26522664.21	26522664.36	26522664.51	0.0088	0.0040
Venus	67904-07-21 01:12 G	26522687.38	26522687.55	26522687.74	0.0088	0.0048
Mercury	67904-09-23 23:17 G	26522752.31	26522752.47	26522752.63	0.0088	0.0031
Mercury	67904-12-21 01:41 G	26522840.41	26522840.57	26522840.74	0.0088	0.0022
Earth	67905-01-16 09:22 G	26522866.70	26522866.89	26522867.10	0.0088	0.0056
Moon	67905-01-16 12:43 G	26522866.84	26522867.03	26522867.27	0.0088	0.0052 *
Venus	67905-03-03 13:55 G	26522912.91	26522913.08	26522913.26	0.0088	0.0053
Mercury	67905-03-19 04:19 G	26522928.51	26522928.68	26522928.85	0.0088	0.0013
Mercury	67905-06-15 06:58 G	26523016.62	26523016.79	26523016.96	0.0088	0.0004
Mercury	67905-09-11 09:36 G	26523104.73	26523104.90	26523105.07	0.0088	0.0006
Venus	67905-10-15 02:39 G	26523138.46	26523138.61	26523138.78	0.0088	0.0058
Mercury	67905-12-08 12:15 G	26523192.84	26523193.01	26523193.18	0.0088	0.0015
Moon	67906-01-18 18:15 G	26523234.04	26523234.26	26523234.52	0.0088	0.0033
Earth	67906-01-18 20:53 G	26523234.14	26523234.37	26523234.64	0.0088	0.0028 *
Mercury	67906-03-06 14:39 G	26523280.95	26523281.11	26523281.28	0.0088	0.0025
Venus	67906-05-28 15:22 G	26523364.00	26523364.14	26523364.30	0.0088	0.0063
Mercury	67906-06-02 17:17 G	26523369.07	26523369.22	26523369.39	0.0088	0.0034
Mercury	67906-08-29 20:10 G	26523457.19	26523457.34	26523457.49	0.0088	0.0043
Mercury	67906-11-25 22:34 G	26523545.31	26523545.44	26523545.59	0.0088	0.0053

Venus	67907-01-09 04:05 G	26523589.54	26523589.67	26523589.81	0.0088	0.0068
Earth	67907-01-21 09:07 G	26523601.62	26523601.88	26523602.14	0.0088	0.0001
Moon	67907-01-21 11:03 G	26523601.69	26523601.96	26523602.23	0.0088	0.0005 *
Mercury	67907-02-22 01:27 G	26523633.44	26523633.56	26523633.68	0.0088	0.0062
Mercury	67907-05-21 03:51 G	26523721.57	26523721.66	26523721.77	0.0088	0.0072
Mercury	67907-08-17 06:43 G	26523809.72	26523809.78	26523809.85	0.0088	0.0081
Venus	67907-08-22 16:34 G	26523815.08	26523815.19	26523815.32	0.0088	0.0073
Moon	67908-01-23 19:41 G	26523969.08	26523969.32	26523969.57	0.0088	0.0025
Earth	67908-01-23 20:24 G	26523969.12	26523969.35	26523969.61	0.0088	0.0030 *
Venus	67908-04-04 05:03 G	26524040.63	26524040.71	26524040.83	0.0088	0.0078
Venus	67908-11-15 17:46 G	26524266.19	26524266.24	26524266.33	0.0088	0.0083
Moon	67909-01-25 06:43 G	26524336.62	26524336.78	26524337.00	0.0088	0.0063
Earth	67909-01-25 07:55 G	26524336.65	26524336.83	26524337.04	0.0088	0.0058 *
Venus	67909-06-29 06:43 G	26524491.78	26524491.78	26524491.80	0.0088	0.0088
Earth	67910-01-27 19:12 G	26524704.29	26524704.30	26524704.37	0.0088	0.0087
Moon	67910-01-27 20:53 G	26524704.31	26524704.37	26524704.48	0.0088	0.0083 *
Mars	67938-04-08 21:36 G	26535002.09	26535002.40	26535002.70	0.0089	0.0005
Jupiter	67941-08-23 18:00 G	26536235.02	26536235.25	26536235.53	0.0089	0.0079
Venus	67970-08-16 18:15 G	26546820.22	26546820.26	26546820.35	0.0090	0.0086
Venus	67971-03-30 07:41 G	26547045.75	26547045.82	26547045.94	0.0090	0.0081
Venus	67971-11-10 21:36 G	26547271.28	26547271.40	26547271.51	0.0090	0.0075
Venus	67972-06-23 10:34 G	26547496.81	26547496.94	26547497.08	0.0090	0.0070
Venus	67973-02-03 23:31 G	26547722.35	26547722.48	26547722.65	0.0090	0.0065
Venus	67973-09-17 12:43 G	26547947.89	26547948.03	26547948.21	0.0090	0.0060
Venus	67974-05-01 02:24 G	26548173.43	26548173.60	26548173.78	0.0090	0.0054
Venus	67974-12-12 15:36 G	26548398.98	26548399.15	26548399.34	0.0090	0.0049
Venus	67975-07-26 04:34 G	26548624.52	26548624.69	26548624.90	0.0090	0.0044
Venus	67976-03-07 18:15 G	26548850.07	26548850.26	26548850.47	0.0090	0.0038
Venus	67976-10-19 07:27 G	26549075.62	26549075.81	26549076.03	0.0090	0.0033
Venus	67977-06-01 20:53 G	26549301.17	26549301.37	26549301.59	0.0090	0.0027

Venus	67978-01-13 10:05 G	26549526.72	26549526.92	26549527.15	0.0090	0.0022
Venus	67978-08-26 23:46 G	26549752.28	26549752.49	26549752.71	0.0090	0.0016
Venus	67979-04-09 13:12 G	26549977.84	26549978.05	26549978.27	0.0090	0.0010
Venus	67979-11-21 02:39 G	26550203.39	26550203.61	26550203.83	0.0090	0.0005
Venus	67980-07-03 16:05 G	26550428.95	26550429.17	26550429.39	0.0090	0.0001
Venus	67981-02-14 05:17 G	26550654.50	26550654.72	26550654.94	0.0090	0.0007
Venus	67981-09-27 18:43 G	26550880.06	26550880.28	26550880.50	0.0090	0.0012
Venus	67982-05-11 08:10 G	26551105.63	26551105.84	26551106.06	0.0090	0.0018
Venus	67982-12-22 21:22 G	26551331.19	26551331.39	26551331.61	0.0090	0.0023
Venus	67983-08-05 10:34 G	26551556.74	26551556.94	26551557.16	0.0090	0.0029
Venus	67984-03-17 23:46 G	26551782.31	26551782.49	26551782.71	0.0090	0.0035
Mercury	67984-08-06 15:51 G	26551924.14	26551924.16	26551924.20	0.0090	0.0088
Venus	67984-10-29 13:27 G	26552007.87	26552008.06	26552008.26	0.0090	0.0040
Mercury	67984-11-02 18:00 G	26552012.18	26552012.25	26552012.32	0.0090	0.0079
Mercury	67985-01-29 19:27 G	26552100.24	26552100.31	26552100.42	0.0090	0.0071
Mercury	67985-04-27 21:36 G	26552188.30	26552188.40	26552188.51	0.0090	0.0062
Venus	67985-06-12 02:24 G	26552233.43	26552233.60	26552233.81	0.0089	0.0046
Moon	67985-07-13 13:27 G	26552265.00	26552265.06	26552265.19	0.0089	0.0083
Earth	67985-07-13 17:17 G	26552265.17	26552265.22	26552265.31	0.0089	0.0086 *
Mercury	67985-07-24 23:17 G	26552276.36	26552276.47	26552276.60	0.0089	0.0054
Mercury	67985-10-21 01:12 G	26552364.43	26552364.55	26552364.68	0.0089	0.0045
Mercury	67986-01-17 02:53 G	26552452.49	26552452.62	26552452.76	0.0089	0.0037
Venus	67986-01-23 15:51 G	26552459.00	26552459.16	26552459.36	0.0089	0.0051
Mercury	67986-04-15 04:48 G	26552540.56	26552540.70	26552540.84	0.0089	0.0028
Mercury	67986-07-12 06:43 G	26552628.64	26552628.78	26552628.92	0.0089	0.0020
Earth	67986-07-16 04:34 G	26552632.52	26552632.69	26552632.91	0.0089	0.0057
Moon	67986-07-16 08:10 G	26552632.65	26552632.84	26552633.04	0.0089	0.0059 *
Venus	67986-09-06 05:17 G	26552684.56	26552684.72	26552684.90	0.0089	0.0056
Mercury	67986-10-08 08:24 G	26552716.71	26552716.85	26552717.00	0.0089	0.0011
Mercury	67987-01-04 10:05 G	26552804.78	26552804.92	26552805.07	0.0089	0.0004

Mercury	67987-04-02 12:00 G	26552892.85	26552893.00	26552893.14	0.0089	0.0005
Venus	67987-04-19 18:29 G	26552910.13	26552910.27	26552910.45	0.0089	0.0062
Mercury	67987-06-29 13:41 G	26552980.93	26552981.07	26552981.22	0.0089	0.0014
Moon	67987-07-18 14:24 G	26552999.88	26553000.10	26553000.35	0.0089	0.0024
Earth	67987-07-18 16:34 G	26552999.95	26553000.19	26553000.44	0.0089	0.0027 *
Mercury	67987-09-25 15:22 G	26553069.00	26553069.14	26553069.29	0.0089	0.0022
Venus	67987-12-01 07:55 G	26553135.70	26553135.83	26553135.99	0.0089	0.0067
Mercury	67987-12-22 17:03 G	26553157.08	26553157.21	26553157.35	0.0089	0.0030
Mercury	67988-03-19 18:43 G	26553245.16	26553245.28	26553245.42	0.0089	0.0039
Mercury	67988-06-15 20:24 G	26553333.24	26553333.35	26553333.48	0.0089	0.0047
Venus	67988-07-13 21:22 G	26553361.27	26553361.39	26553361.53	0.0089	0.0072
Earth	67988-07-20 04:05 G	26553367.42	26553367.67	26553367.93	0.0089	0.0003
Moon	67988-07-20 05:31 G	26553367.47	26553367.73	26553367.99	0.0089	0.0001 *
Mercury	67988-09-11 22:19 G	26553421.32	26553421.43	26553421.55	0.0089	0.0054
Mercury	67988-12-09 00:00 G	26553509.40	26553509.50	26553509.61	0.0089	0.0063
Venus	67989-02-24 10:48 G	26553586.85	26553586.95	26553587.07	0.0089	0.0077
Mercury	67989-03-07 01:41 G	26553597.49	26553597.57	26553597.66	0.0089	0.0071
Mercury	67989-06-03 03:22 G	26553685.58	26553685.64	26553685.71	0.0089	0.0079
Earth	67989-07-22 15:22 G	26553734.92	26553735.14	26553735.39	0.0089	0.0033
Moon	67989-07-22 16:05 G	26553734.95	26553735.17	26553735.40	0.0089	0.0036 *
Mercury	67989-08-30 05:03 G	26553773.69	26553773.71	26553773.75	0.0089	0.0087
Venus	67989-10-07 23:46 G	26553812.43	26553812.49	26553812.60	0.0089	0.0082
Venus	67990-05-21 13:12 G	26554038.03	26554038.05	26554038.12	0.0089	0.0088
Moon	67990-07-25 01:12 G	26554102.37	26554102.55	26554102.77	0.0089	0.0059
Earth	67990-07-25 02:39 G	26554102.45	26554102.61	26554102.82	0.0089	0.0063 *

# 69TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 69th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	68017-12-11 17:17	G	26564103.97	26564104.22	26564104.59	0.0088	0.0073	
Mars	68020-03-10 00:00	G	26564923.31	26564923.50	26564923.77	0.0088	0.0063	
Venus	68052-10-02 16:34	G	26576818.15	26576818.19	26576818.26	0.0088	0.0085	
Venus	68053-05-16 05:17	G	26577043.65	26577043.72	26577043.83	0.0088	0.0080	
Venus	68053-12-27 18:00	G	26577269.15	26577269.25	26577269.38	0.0088	0.0075	
Venus	68054-08-10 06:58	G	26577494.67	26577494.79	26577494.93	0.0088	0.0070	
Venus	68055-03-23 19:41	G	26577720.18	26577720.32	26577720.48	0.0088	0.0065	
Venus	68055-11-04 08:24	G	26577945.70	26577945.85	26577946.03	0.0088	0.0060	
Venus	68056-06-16 21:07	G	26578171.22	26578171.38	26578171.57	0.0088	0.0055	
Venus	68057-01-28 09:51	G	26578396.75	26578396.91	26578397.11	0.0088	0.0050	
Venus	68057-09-10 22:48	G	26578622.27	26578622.45	26578622.65	0.0088	0.0045	
Venus	68058-04-24 11:31	G	26578847.80	26578847.98	26578848.19	0.0088	0.0040	
Venus	68058-12-06 00:29	G	26579073.32	26579073.52	26579073.73	0.0088	0.0034	
Venus	68059-07-19 13:12	G	26579298.84	26579299.05	26579299.26	0.0088	0.0029	
Venus	68060-03-01 01:55	G	26579524.37	26579524.58	26579524.80	0.0088	0.0024	
Venus	68060-10-12 14:39	G	26579749.90	26579750.11	26579750.33	0.0088	0.0019	
Venus	68061-05-26 03:22	G	26579975.43	26579975.64	26579975.87	0.0088	0.0014	
Venus	68062-01-06 16:05	G	26580200.95	26580201.17	26580201.39	0.0088	0.0008	
Venus	68062-08-20 04:48	G	26580426.48	26580426.70	26580426.92	0.0088	0.0003	
Venus	68063-04-02 17:31	G	26580652.01	26580652.23	26580652.45	0.0088	0.0003	
Venus	68063-11-14 06:15	G	26580877.54	26580877.76	26580877.98	0.0088	0.0008	

Venus	68064-06-26 18:43 G	26581103.07	26581103.28	26581103.51	0.0088	0.0013
Venus	68065-02-07 07:27 G	26581328.60	26581328.81	26581329.03	0.0088	0.0018
Venus	68065-09-20 19:55 G	26581554.13	26581554.33	26581554.56	0.0088	0.0024
Venus	68066-05-04 08:39 G	26581779.67	26581779.86	26581780.08	0.0088	0.0029
Venus	68066-12-15 21:22 G	26582005.20	26582005.39	26582005.61	0.0088	0.0034
Venus	68067-07-29 10:19 G	26582230.74	26582230.93	26582231.13	0.0088	0.0039
Mercury	68068-01-09 06:29 G	26582394.72	26582394.77	26582394.85	0.0088	0.0081
Venus	68068-03-10 23:03 G	26582456.27	26582456.46	26582456.65	0.0088	0.0044
Mercury	68068-04-06 08:53 G	26582482.79	26582482.87	26582482.98	0.0088	0.0072
Mercury	68068-07-03 11:31 G	26582570.88	26582570.98	26582571.11	0.0088	0.0063
Mercury	68068-09-29 13:55 G	26582658.96	26582659.08	26582659.23	0.0088	0.0054
Venus	68068-10-22 12:00 G	26582681.82	26582682.00	26582682.18	0.0088	0.0049
Mercury	68068-12-26 16:34 G	26582747.06	26582747.19	26582747.35	0.0088	0.0045
Moon	68069-01-15 14:24 G	26582766.97	26582767.10	26582767.28	0.0088	0.0070
Earth	68069-01-15 17:31 G	26582767.08	26582767.23	26582767.39	0.0088	0.0069 *
Mercury	68069-03-24 19:12 G	26582835.15	26582835.30	26582835.46	0.0088	0.0036
Venus	68069-06-05 00:15 G	26582907.36	26582907.51	26582907.70	0.0088	0.0055
Mercury	68069-06-20 21:51 G	26582923.25	26582923.41	26582923.58	0.0088	0.0026
Mercury	68069-09-17 00:29 G	26583011.35	26583011.52	26583011.69	0.0088	0.0017
Mercury	68069-12-14 03:07 G	26583099.46	26583099.63	26583099.80	0.0088	0.0008
Venus	68070-01-16 12:58 G	26583132.90	26583133.04	26583133.22	0.0088	0.0060
Earth	68070-01-18 05:03 G	26583134.50	26583134.71	26583134.96	0.0088	0.0041
Moon	68070-01-18 06:29 G	26583134.55	26583134.77	26583135.02	0.0088	0.0041 *
Mercury	68070-03-12 05:46 G	26583187.57	26583187.74	26583187.91	0.0088	0.0002
Mercury	68070-06-08 08:10 G	26583275.68	26583275.84	26583276.02	0.0088	0.0011
Venus	68070-08-30 01:41 G	26583358.44	26583358.57	26583358.73	0.0088	0.0065
Mercury	68070-09-04 10:48 G	26583363.79	26583363.95	26583364.12	0.0088	0.0020
Mercury	68070-12-01 13:12 G	26583451.90	26583452.05	26583452.23	0.0088	0.0030
Earth	68071-01-20 17:17 G	26583501.97	26583502.22	26583502.48	0.0088	0.0012
Moon	68071-01-20 17:31 G	26583501.98	26583502.23	26583502.48	0.0088	0.0012 *

Mercury	68071-02-27 16:05 G	26583540.02	26583540.17	26583540.33	0.0088	0.0039
Venus	68071-04-12 14:10 G	26583583.98	26583584.09	26583584.25	0.0088	0.0070
Mercury	68071-05-26 18:43 G	26583628.14	26583628.28	26583628.43	0.0088	0.0048
Mercury	68071-08-22 21:07 G	26583716.27	26583716.38	26583716.53	0.0088	0.0058
Mercury	68071-11-19 00:00 G	26583804.40	26583804.50	26583804.62	0.0088	0.0067
Venus	68071-11-24 03:07 G	26583809.54	26583809.63	26583809.76	0.0088	0.0075
Moon	68072-01-23 04:05 G	26583869.41	26583869.67	26583869.94	0.0088	0.0017
Earth	68072-01-23 04:48 G	26583869.46	26583869.70	26583869.97	0.0088	0.0017 *
Mercury	68072-02-15 02:24 G	26583892.54	26583892.60	26583892.70	0.0088	0.0077
Mercury	68072-05-13 05:17 G	26583980.70	26583980.72	26583980.76	0.0088	0.0086
Venus	68072-07-06 15:51 G	26584035.09	26584035.16	26584035.27	0.0088	0.0080
Earth	68073-01-24 16:34 G	26584236.98	26584237.19	26584237.42	0.0088	0.0045
Moon	68073-01-24 18:58 G	26584237.08	26584237.29	26584237.52	0.0088	0.0045 *
Venus	68073-02-17 04:19 G	26584260.65	26584260.68	26584260.76	0.0088	0.0085
Moon	68074-01-27 00:58 G	26584604.41	26584604.54	26584604.70	0.0088	0.0073
Earth	68074-01-27 04:34 G	26584604.55	26584604.69	26584604.83	0.0088	0.0073 *
Mars	68101-11-22 19:55 G	26594765.14	26594765.33	26594765.55	0.0089	0.0066
Mars	68103-10-18 06:15 G	26595459.65	26595459.76	26595459.90	0.0089	0.0082
Venus	68134-11-19 04:05 G	26606814.63	26606814.67	26606814.76	0.0090	0.0086
Venus	68135-07-02 18:00 G	26607040.15	26607040.25	26607040.34	0.0090	0.0080
Venus	68136-02-13 06:58 G	26607265.68	26607265.79	26607265.92	0.0090	0.0075
Venus	68136-09-25 20:10 G	26607491.22	26607491.34	26607491.49	0.0090	0.0070
Venus	68137-05-09 09:22 G	26607716.76	26607716.89	26607717.07	0.0090	0.0065
Venus	68137-12-20 23:03 G	26607942.30	26607942.46	26607942.63	0.0090	0.0059
Venus	68138-08-03 12:00 G	26608167.84	26608168.00	26608168.19	0.0090	0.0054
Venus	68139-03-17 01:41 G	26608393.39	26608393.57	26608393.76	0.0090	0.0048
Venus	68139-10-28 14:53 G	26608618.94	26608619.12	26608619.32	0.0090	0.0043
Venus	68140-06-10 04:19 G	26608844.48	26608844.68	26608844.88	0.0090	0.0037
Venus	68141-01-21 17:17 G	26609070.03	26609070.22	26609070.44	0.0090	0.0032
Venus	68141-09-04 06:58 G	26609295.58	26609295.79	26609296.00	0.0090	0.0026

Venus	68142-04-17 20:10 G	26609521.13	26609521.34	26609521.56	0.0090	0.0021
Venus	68142-11-29 09:36 G	26609746.69	26609746.90	26609747.12	0.0090	0.0015
Venus	68143-07-12 22:48 G	26609972.24	26609972.45	26609972.67	0.0090	0.0010
Venus	68144-02-23 12:15 G	26610197.79	26610198.01	26610198.23	0.0090	0.0004
Venus	68144-10-06 01:41 G	26610423.35	26610423.57	26610423.79	0.0090	0.0002
Venus	68145-05-19 15:07 G	26610648.91	26610649.13	26610649.35	0.0090	0.0007
Venus	68145-12-31 04:34 G	26610874.47	26610874.69	26610874.91	0.0090	0.0013
Venus	68146-08-13 17:46 G	26611100.03	26611100.24	26611100.46	0.0090	0.0019
Venus	68147-03-27 06:58 G	26611325.59	26611325.79	26611326.02	0.0090	0.0025
Venus	68147-11-07 20:24 G	26611551.15	26611551.35	26611551.57	0.0090	0.0030
Venus	68148-06-20 09:36 G	26611776.72	26611776.90	26611777.12	0.0090	0.0036
Venus	68149-01-31 23:17 G	26612002.28	26612002.47	26612002.67	0.0090	0.0041
Mercury	68149-05-04 15:07 G	26612095.09	26612095.13	26612095.19	0.0090	0.0083
Mercury	68149-07-31 17:03 G	26612183.14	26612183.21	26612183.30	0.0090	0.0075
Venus	68149-09-14 12:15 G	26612227.84	26612228.01	26612228.22	0.0090	0.0047
Mercury	68149-10-27 18:43 G	26612271.20	26612271.28	26612271.39	0.0090	0.0067
Mercury	68150-01-23 20:39 G	26612359.26	26612359.36	26612359.48	0.0090	0.0058
Mercury	68150-04-21 22:34 G	26612447.33	26612447.44	26612447.57	0.0089	0.0049
Venus	68150-04-28 01:55 G	26612453.41	26612453.58	26612453.77	0.0089	0.0052
Moon	68150-07-16 11:31 G	26612532.87	26612532.98	26612533.14	0.0089	0.0075
Earth	68150-07-16 13:27 G	26612532.92	26612533.06	26612533.23	0.0089	0.0070 *
Mercury	68150-07-19 00:29 G	26612535.39	26612535.52	26612535.65	0.0089	0.0041
Mercury	68150-10-15 02:10 G	26612623.46	26612623.59	26612623.74	0.0089	0.0033
Venus	68150-12-09 14:53 G	26612678.97	26612679.12	26612679.31	0.0089	0.0058
Mercury	68151-01-11 04:05 G	26612711.53	26612711.67	26612711.82	0.0089	0.0024
Mercury	68151-04-09 06:00 G	26612799.60	26612799.75	26612799.89	0.0089	0.0015
Mercury	68151-07-06 07:41 G	26612887.68	26612887.82	26612887.97	0.0089	0.0007
Moon	68151-07-19 01:12 G	26612900.32	26612900.55	26612900.80	0.0089	0.0037
Earth	68151-07-19 00:58 G	26612900.33	26612900.54	26612900.78	0.0089	0.0041 *
Venus	68151-07-23 04:19 G	26612904.54	26612904.68	26612904.85	0.0089	0.0063



Mercury	68151-10-02 09:36 G	26612975.75	26612975.90	26612976.04	0.0089	0.0003
Mercury	68151-12-29 11:17 G	26613063.82	26613063.97	26613064.11	0.0089	0.0010
Venus	68152-03-04 17:46 G	26613130.11	26613130.24	26613130.39	0.0089	0.0068
Mercury	68152-03-26 12:58 G	26613151.90	26613152.04	26613152.19	0.0089	0.0018
Mercury	68152-06-22 14:39 G	26613239.98	26613240.11	26613240.25	0.0089	0.0026
Earth	68152-07-20 12:29 G	26613267.78	26613268.02	26613268.28	0.0089	0.0012
Moon	68152-07-20 13:12 G	26613267.81	26613268.05	26613268.30	0.0089	0.0015 *
Mercury	68152-09-18 16:19 G	26613328.05	26613328.18	26613328.32	0.0089	0.0035
Venus	68152-10-16 06:43 G	26613355.68	26613355.78	26613355.93	0.0089	0.0074
Mercury	68152-12-15 18:00 G	26613416.13	26613416.25	26613416.39	0.0089	0.0043
Mercury	68153-03-13 19:55 G	26613504.21	26613504.33	26613504.45	0.0089	0.0051
Venus	68153-05-29 20:10 G	26613581.26	26613581.34	26613581.47	0.0089	0.0079
Mercury	68153-06-09 21:36 G	26613592.30	26613592.40	26613592.51	0.0089	0.0059
Moon	68153-07-22 21:51 G	26613635.16	26613635.41	26613635.67	0.0089	0.0023
Earth	68153-07-22 23:46 G	26613635.25	26613635.49	26613635.75	0.0089	0.0019 *
Mercury	68153-09-05 23:17 G	26613680.38	26613680.47	26613680.57	0.0089	0.0067
Mercury	68153-12-03 00:58 G	26613768.47	26613768.54	26613768.62	0.0089	0.0075
Venus	68154-01-10 09:36 G	26613806.84	26613806.90	26613806.99	0.0089	0.0084
Mercury	68154-03-01 02:39 G	26613856.57	26613856.61	26613856.67	0.0089	0.0083
Earth	68154-07-25 11:17 G	26614002.76	26614002.97	26614003.19	0.0089	0.0048
Moon	68154-07-25 14:10 G	26614002.88	26614003.09	26614003.32	0.0089	0.0044 *
Venus	68154-08-23 22:48 G	26614032.44	26614032.45	26614032.50	0.0089	0.0089
Moon	68155-07-27 19:27 G	26614370.21	26614370.31	26614370.43	0.0089	0.0081
Earth	68155-07-27 22:19 G	26614370.33	26614370.43	26614370.59	0.0089	0.0078 *
Mars	68183-10-24 06:15 G	26624685.44	26624685.76	26624686.09	0.0088	0.0002
Jupiter	68184-02-08 15:07 G	26624792.75	26624793.13	26624793.62	0.0088	0.0052
Venus	68217-01-06 02:53 G	26636812.59	26636812.62	26636812.71	0.0088	0.0085
Venus	68217-08-19 15:36 G	26637038.09	26637038.15	26637038.27	0.0088	0.0080
Venus	68218-04-02 04:34 G	26637263.59	26637263.69	26637263.82	0.0088	0.0075
Venus	68218-11-13 17:17 G	26637489.11	26637489.22	26637489.37	0.0088	0.0070

Venus	68219-06-27 06:00 G	26637714.62	26637714.75	26637714.92	0.0088	0.0065
Venus	68220-02-07 18:43 G	26637940.14	26637940.28	26637940.46	0.0088	0.0060
Venus	68220-09-20 07:55 G	26638165.67	26638165.83	26638166.01	0.0088	0.0054
Venus	68221-05-03 20:39 G	26638391.19	26638391.36	26638391.55	0.0088	0.0049
Venus	68221-12-15 09:22 G	26638616.71	26638616.89	26638617.09	0.0088	0.0044
Venus	68222-07-28 22:05 G	26638842.23	26638842.42	26638842.63	0.0088	0.0039
Venus	68223-03-11 10:48 G	26639067.76	26639067.95	26639068.17	0.0088	0.0034
Venus	68223-10-23 00:00 G	26639293.29	26639293.50	26639293.71	0.0088	0.0028
Venus	68224-06-04 12:43 G	26639518.82	26639519.03	26639519.24	0.0088	0.0023
Venus	68225-01-16 01:12 G	26639744.34	26639744.55	26639744.78	0.0088	0.0018
Venus	68225-08-29 13:55 G	26639969.87	26639970.08	26639970.31	0.0088	0.0013
Venus	68226-04-12 02:53 G	26640195.40	26640195.62	26640195.84	0.0088	0.0007
Venus	68226-11-23 15:36 G	26640420.93	26640421.15	26640421.37	0.0088	0.0002
Venus	68227-07-07 04:19 G	26640646.46	26640646.68	26640646.90	0.0088	0.0004
Venus	68228-02-17 16:48 G	26640871.99	26640872.20	26640872.42	0.0088	0.0009
Venus	68228-09-30 05:46 G	26641097.52	26641097.74	26641097.95	0.0088	0.0014
Venus	68229-05-13 18:00 G	26641323.05	26641323.25	26641323.48	0.0088	0.0020
Venus	68229-12-25 06:43 G	26641548.58	26641548.78	26641549.00	0.0088	0.0025
Venus	68230-08-07 19:27 G	26641774.11	26641774.31	26641774.52	0.0088	0.0030
Venus	68231-03-21 08:10 G	26641999.64	26641999.84	26642000.05	0.0088	0.0035
Venus	68231-11-01 21:07 G	26642225.18	26642225.38	26642225.58	0.0088	0.0040
Venus	68232-06-14 09:22 G	26642450.72	26642450.89	26642451.10	0.0088	0.0046
Mercury	68232-07-11 02:39 G	26642477.59	26642477.61	26642477.67	0.0088	0.0085
Mercury	68232-10-07 05:17 G	26642565.65	26642565.72	26642565.82	0.0088	0.0076
Mercury	68233-01-03 07:41 G	26642653.73	26642653.82	26642653.95	0.0088	0.0067
Earth	68233-01-17 01:27 G	26642667.49	26642667.56	26642667.66	0.0088	0.0082
Moon	68233-01-17 02:39 G	26642667.57	26642667.61	26642667.66	0.0088	0.0086 *
Venus	68233-01-25 22:05 G	26642676.26	26642676.42	26642676.62	0.0088	0.0051
Mercury	68233-04-01 10:19 G	26642741.82	26642741.93	26642742.07	0.0088	0.0058
Mercury	68233-06-28 12:58 G	26642829.91	26642830.04	26642830.19	0.0088	0.0049

Venus	68233-09-08 10:48 G	26642901.79	26642901.95	26642902.13	0.0088	0.0056
Mercury	68233-09-24 15:22 G	26642918.00	26642918.14	26642918.30	0.0088	0.0040
Mercury	68233-12-21 18:00 G	26643006.10	26643006.25	26643006.42	0.0088	0.0031
Earth	68234-01-19 13:12 G	26643034.87	26643035.05	26643035.28	0.0088	0.0054
Moon	68234-01-19 13:55 G	26643034.88	26643035.08	26643035.30	0.0088	0.0049 *
Mercury	68234-03-19 20:39 G	26643094.20	26643094.36	26643094.53	0.0088	0.0021
Venus	68234-04-21 23:31 G	26643127.34	26643127.48	26643127.65	0.0088	0.0061
Mercury	68234-06-15 23:17 G	26643182.30	26643182.47	26643182.64	0.0088	0.0012
Mercury	68234-09-12 01:55 G	26643270.41	26643270.58	26643270.75	0.0088	0.0003
Venus	68234-12-03 12:29 G	26643352.89	26643353.02	26643353.17	0.0088	0.0066
Mercury	68234-12-09 04:19 G	26643358.51	26643358.68	26643358.86	0.0088	0.0007
Moon	68235-01-21 23:03 G	26643402.23	26643402.46	26643402.73	0.0088	0.0030
Earth	68235-01-22 01:27 G	26643402.32	26643402.56	26643402.81	0.0088	0.0025 *
Mercury	68235-03-07 06:58 G	26643446.62	26643446.79	26643446.96	0.0088	0.0016
Mercury	68235-06-03 09:36 G	26643534.74	26643534.90	26643535.07	0.0088	0.0025
Venus	68235-07-17 01:12 G	26643578.43	26643578.55	26643578.69	0.0088	0.0071
Mercury	68235-08-30 12:15 G	26643622.85	26643623.01	26643623.17	0.0088	0.0034
Mercury	68235-11-26 14:39 G	26643710.97	26643711.11	26643711.27	0.0088	0.0044
Earth	68236-01-24 13:12 G	26643769.80	26643770.05	26643770.32	0.0088	0.0004
Moon	68236-01-24 15:36 G	26643769.90	26643770.15	26643770.41	0.0088	0.0008 *
Mercury	68236-02-22 17:31 G	26643799.09	26643799.23	26643799.37	0.0088	0.0053
Venus	68236-02-27 13:41 G	26643803.98	26643804.07	26643804.20	0.0088	0.0076
Mercury	68236-05-20 19:55 G	26643887.22	26643887.33	26643887.46	0.0088	0.0063
Mercury	68236-08-16 22:48 G	26643975.36	26643975.45	26643975.55	0.0088	0.0072
Venus	68236-10-10 02:39 G	26644029.54	26644029.61	26644029.70	0.0088	0.0081
Mercury	68236-11-13 01:12 G	26644063.50	26644063.55	26644063.63	0.0088	0.0082
Moon	68237-01-25 21:22 G	26644137.15	26644137.39	26644137.66	0.0088	0.0027
Earth	68237-01-26 00:58 G	26644137.31	26644137.54	26644137.80	0.0088	0.0032 *
Venus	68237-05-23 15:07 G	26644255.11	26644255.13	26644255.19	0.0088	0.0086
Earth	68238-01-28 12:58 G	26644504.86	26644505.04	26644505.23	0.0088	0.0060

Moon	68238-01-28 16:19 G	26644505.02	26644505.18	26644505.37	0.0088	0.0065 *
Moon	68239-01-30 21:07 G	26644872.32	26644872.38	26644872.46	0.0088	0.0084
Mars	68267-06-03 05:03 G	26655222.43	26655222.71	26655223.03	0.0089	0.0021
Venus	68299-02-21 14:39 G	26666809.05	26666809.11	26666809.18	0.0090	0.0085
Venus	68299-10-05 03:51 G	26667034.57	26667034.66	26667034.77	0.0090	0.0080
Venus	68300-05-18 17:03 G	26667260.11	26667260.21	26667260.35	0.0090	0.0075
Venus	68300-12-30 06:43 G	26667485.64	26667485.78	26667485.92	0.0090	0.0069
Venus	68301-08-12 19:41 G	26667711.18	26667711.32	26667711.49	0.0090	0.0064
Venus	68302-03-26 08:53 G	26667936.73	26667936.87	26667937.06	0.0090	0.0059
Venus	68302-11-06 22:34 G	26668162.27	26668162.44	26668162.62	0.0090	0.0053
Venus	68303-06-20 11:31 G	26668387.81	26668387.98	26668388.19	0.0090	0.0048
Venus	68304-02-01 00:58 G	26668613.36	26668613.54	26668613.74	0.0090	0.0042
Venus	68304-09-13 14:10 G	26668838.90	26668839.09	26668839.30	0.0090	0.0037
Venus	68305-04-27 03:51 G	26669064.46	26669064.66	26669064.87	0.0090	0.0031
Venus	68305-12-08 16:48 G	26669290.00	26669290.20	26669290.43	0.0090	0.0026
Venus	68306-07-22 06:15 G	26669515.55	26669515.76	26669515.98	0.0090	0.0020
Venus	68307-03-04 19:27 G	26669741.10	26669741.31	26669741.54	0.0090	0.0015
Venus	68307-10-16 08:53 G	26669966.66	26669966.87	26669967.09	0.0090	0.0009
Venus	68308-05-28 22:19 G	26670192.21	26670192.43	26670192.65	0.0090	0.0003
Venus	68309-01-09 11:46 G	26670417.77	26670417.99	26670418.21	0.0090	0.0003
Venus	68309-08-23 00:58 G	26670643.32	26670643.54	26670643.76	0.0090	0.0008
Venus	68310-04-05 14:24 G	26670868.88	26670869.10	26670869.32	0.0090	0.0014
Venus	68310-11-17 03:36 G	26671094.44	26671094.65	26671094.87	0.0090	0.0020
Venus	68311-06-30 16:48 G	26671320.01	26671320.20	26671320.43	0.0090	0.0026
Venus	68312-02-11 06:15 G	26671545.57	26671545.76	26671545.98	0.0090	0.0031
Venus	68312-09-23 19:41 G	26671771.13	26671771.32	26671771.53	0.0090	0.0036
Venus	68313-05-07 09:22 G	26671996.70	26671996.89	26671997.09	0.0089	0.0042
Mercury	68313-11-04 12:29 G	26672178.00	26672178.02	26672178.07	0.0089	0.0088
Venus	68313-12-18 22:19 G	26672222.26	26672222.43	26672222.64	0.0089	0.0048
Mercury	68314-01-31 14:24 G	26672266.04	26672266.10	26672266.18	0.0089	0.0079

Mercury	68314-04-29 16:34 G	26672354.10	26672354.19	26672354.28	0.0089	0.0070
Moon	68314-07-17 22:48 G	26672433.35	26672433.45	26672433.57	0.0089	0.0081
Earth	68314-07-17 22:19 G	26672433.37	26672433.43	26672433.55	0.0089	0.0084 *
Mercury	68314-07-26 18:15 G	26672442.16	26672442.26	26672442.37	0.0089	0.0062
Venus	68314-08-01 12:00 G	26672447.83	26672448.00	26672448.18	0.0089	0.0053
Mercury	68314-10-22 20:10 G	26672530.23	26672530.34	26672530.46	0.0089	0.0053
Mercury	68315-01-18 21:51 G	26672618.29	26672618.41	26672618.55	0.0089	0.0045
Venus	68315-03-15 00:58 G	26672673.40	26672673.54	26672673.73	0.0089	0.0059
Mercury	68315-04-17 00:00 G	26672706.36	26672706.50	26672706.63	0.0089	0.0036
Mercury	68315-07-14 01:41 G	26672794.43	26672794.57	26672794.71	0.0089	0.0027
Earth	68315-07-20 10:19 G	26672800.73	26672800.93	26672801.14	0.0089	0.0054
Moon	68315-07-20 11:31 G	26672800.81	26672800.98	26672801.20	0.0089	0.0056 *
Mercury	68315-10-10 03:22 G	26672882.50	26672882.64	26672882.79	0.0089	0.0020
Venus	68315-10-26 14:39 G	26672898.97	26672899.11	26672899.27	0.0089	0.0064
Mercury	68316-01-06 05:17 G	26672970.58	26672970.72	26672970.87	0.0089	0.0011
Mercury	68316-04-03 07:12 G	26673058.65	26673058.80	26673058.94	0.0089	0.0003
Venus	68316-06-08 03:36 G	26673124.54	26673124.65	26673124.82	0.0089	0.0070
Mercury	68316-06-30 08:53 G	26673146.73	26673146.87	26673147.02	0.0089	0.0006
Moon	68316-07-21 19:27 G	26673168.07	26673168.31	26673168.57	0.0089	0.0023
Earth	68316-07-21 21:36 G	26673168.17	26673168.40	26673168.66	0.0089	0.0025 *
Mercury	68316-09-26 10:34 G	26673234.80	26673234.94	26673235.09	0.0089	0.0015
Mercury	68316-12-23 12:29 G	26673322.88	26673323.02	26673323.16	0.0089	0.0023
Venus	68317-01-19 17:03 G	26673350.11	26673350.21	26673350.35	0.0089	0.0075
Mercury	68317-03-21 14:10 G	26673410.96	26673411.09	26673411.23	0.0089	0.0031
Mercury	68317-06-17 15:36 G	26673499.03	26673499.15	26673499.29	0.0089	0.0040
Earth	68317-07-24 09:22 G	26673535.63	26673535.89	26673536.15	0.0089	0.0005
Moon	68317-07-24 12:29 G	26673535.77	26673536.02	26673536.27	0.0089	0.0003 *
Venus	68317-09-02 06:29 G	26673575.69	26673575.77	26673575.88	0.0089	0.0080
Mercury	68317-09-13 17:31 G	26673587.11	26673587.23	26673587.36	0.0089	0.0047
Mercury	68317-12-10 19:12 G	26673675.20	26673675.30	26673675.42	0.0089	0.0055

Mercury	68318-03-08 20:53 G	26673763.28	26673763.37	26673763.48	0.0089	0.0064
Venus	68318-04-15 20:10 G	26673801.28	26673801.34	26673801.41	0.0089	0.0085
Mercury	68318-06-04 22:34 G	26673851.37	26673851.44	26673851.54	0.0089	0.0072
Moon	68318-07-26 17:17 G	26673902.99	26673903.22	26673903.45	0.0089	0.0036
Earth	68318-07-26 20:39 G	26673903.13	26673903.36	26673903.61	0.0089	0.0034 *
Mercury	68318-09-01 00:15 G	26673939.46	26673939.51	26673939.59	0.0089	0.0080
Mercury	68318-11-28 01:55 G	26674027.57	26674027.58	26674027.62	0.0089	0.0088
Earth	68319-07-29 07:55 G	26674270.67	26674270.83	26674271.02	0.0089	0.0064
Moon	68319-07-29 11:03 G	26674270.80	26674270.96	26674271.17	0.0089	0.0062 *
Mars	68347-06-09 11:46 G	26684447.79	26684447.99	26684448.23	0.0088	0.0066
Jupiter	68350-04-11 23:46 G	26685485.01	26685485.49	26685486.03	0.0088	0.0028
Venus	68381-04-10 13:55 G	26696807.03	26696807.08	26696807.16	0.0088	0.0084
Venus	68381-11-22 02:39 G	26697032.53	26697032.61	26697032.72	0.0088	0.0079
Venus	68382-07-05 15:22 G	26697258.04	26697258.14	26697258.27	0.0088	0.0074
Venus	68383-02-16 04:05 G	26697483.55	26697483.67	26697483.82	0.0088	0.0069
Venus	68383-09-29 17:03 G	26697709.07	26697709.21	26697709.38	0.0088	0.0064
Venus	68384-05-12 05:46 G	26697934.59	26697934.74	26697934.92	0.0088	0.0059
Venus	68384-12-23 18:29 G	26698160.11	26698160.27	26698160.46	0.0088	0.0054
Venus	68385-08-06 06:58 G	26698385.63	26698385.79	26698386.00	0.0088	0.0049
Venus	68386-03-19 20:10 G	26698611.15	26698611.34	26698611.54	0.0088	0.0043
Venus	68386-10-31 09:07 G	26698836.69	26698836.88	26698837.08	0.0088	0.0038
Venus	68387-06-13 21:36 G	26699062.21	26699062.40	26699062.62	0.0088	0.0033
Venus	68388-01-25 10:19 G	26699287.74	26699287.93	26699288.16	0.0088	0.0028
Venus	68388-09-06 23:31 G	26699513.27	26699513.48	26699513.69	0.0088	0.0022
Venus	68389-04-20 12:15 G	26699738.80	26699739.01	26699739.23	0.0088	0.0017
Venus	68389-12-02 00:58 G	26699964.33	26699964.54	26699964.77	0.0088	0.0012
Venus	68390-07-15 13:55 G	26700189.86	26700190.08	26700190.30	0.0088	0.0006
Venus	68391-02-26 02:39 G	26700415.39	26700415.61	26700415.83	0.0088	0.0001
Venus	68391-10-09 15:22 G	26700640.92	26700641.14	26700641.36	0.0088	0.0005
Venus	68392-05-22 04:05 G	26700866.45	26700866.67	26700866.89	0.0088	0.0010

Venus	68393-01-02 16:34 G	26701091.98	26701092.19	26701092.42	0.0088	0.0016
Venus	68393-08-16 05:17 G	26701317.51	26701317.72	26701317.94	0.0088	0.0021
Venus	68394-03-29 18:00 G	26701543.05	26701543.25	26701543.47	0.0088	0.0026
Venus	68394-11-10 06:58 G	26701768.58	26701768.79	26701769.00	0.0088	0.0031
Venus	68395-06-23 19:12 G	26701994.12	26701994.30	26701994.52	0.0088	0.0037
Venus	68396-02-04 07:55 G	26702219.65	26702219.83	26702220.04	0.0088	0.0042
Venus	68396-09-16 20:39 G	26702445.19	26702445.36	26702445.56	0.0088	0.0047
Mercury	68397-01-09 23:31 G	26702560.48	26702560.48	26702560.50	0.0088	0.0088
Mercury	68397-04-08 01:55 G	26702648.52	26702648.58	26702648.67	0.0088	0.0079
Venus	68397-04-30 09:22 G	26702670.72	26702670.89	26702671.08	0.0088	0.0052
Mercury	68397-07-05 04:34 G	26702736.60	26702736.69	26702736.80	0.0088	0.0070
Mercury	68397-10-01 06:58 G	26702824.68	26702824.79	26702824.92	0.0088	0.0061
Venus	68397-12-11 22:19 G	26702896.27	26702896.43	26702896.60	0.0088	0.0057
Mercury	68397-12-28 09:36 G	26702912.77	26702912.90	26702913.04	0.0088	0.0052
Moon	68398-01-19 20:10 G	26702935.18	26702935.34	26702935.54	0.0088	0.0065
Earth	68398-01-19 22:34 G	26702935.28	26702935.44	26702935.62	0.0088	0.0066 *
Mercury	68398-03-26 12:00 G	26703000.86	26703001.00	26703001.15	0.0088	0.0043
Mercury	68398-06-22 14:39 G	26703088.96	26703089.11	26703089.27	0.0088	0.0034
Venus	68398-07-25 10:34 G	26703121.81	26703121.94	26703122.11	0.0088	0.0063
Mercury	68398-09-18 17:03 G	26703177.05	26703177.21	26703177.38	0.0088	0.0025
Mercury	68398-12-15 19:41 G	26703265.16	26703265.32	26703265.49	0.0088	0.0016
Earth	68399-01-22 10:19 G	26703302.71	26703302.93	26703303.18	0.0088	0.0038
Moon	68399-01-22 13:27 G	26703302.85	26703303.06	26703303.30	0.0088	0.0040 *
Venus	68399-03-07 23:17 G	26703347.35	26703347.47	26703347.63	0.0088	0.0068
Mercury	68399-03-13 22:19 G	26703353.26	26703353.43	26703353.60	0.0088	0.0007
Mercury	68399-06-10 00:58 G	26703441.37	26703441.54	26703441.71	0.0088	0.0003
Mercury	68399-09-06 03:22 G	26703529.47	26703529.64	26703529.81	0.0088	0.0012
Venus	68399-10-19 12:00 G	26703572.90	26703573.00	26703573.15	0.0088	0.0073
Mercury	68399-12-03 06:00 G	26703617.58	26703617.75	26703617.92	0.0088	0.0021
Moon	68400-01-24 18:58 G	26703670.03	26703670.29	26703670.56	0.0088	0.0008

Earth	68400-01-24 22:34 G	26703670.18	26703670.44	26703670.70	0.0088	0.0009	*
Mercury	68400-02-29 08:24 G	26703705.70	26703705.85	26703706.02	0.0088	0.0031	
Mercury	68400-05-27 11:03 G	26703793.82	26703793.96	26703794.12	0.0088	0.0040	
Venus	68400-06-01 00:43 G	26703798.45	26703798.53	26703798.65	0.0088	0.0078	
Mercury	68400-08-23 13:55 G	26703881.94	26703882.08	26703882.22	0.0088	0.0049	
Mercury	68400-11-19 16:05 G	26703970.06	26703970.17	26703970.31	0.0088	0.0059	
Venus	68401-01-12 13:27 G	26704024.01	26704024.06	26704024.15	0.0088	0.0083	
Earth	68401-01-26 10:19 G	26704037.68	26704037.93	26704038.18	0.0088	0.0019	
Moon	68401-01-26 13:55 G	26704037.83	26704038.08	26704038.34	0.0088	0.0019	*
Mercury	68401-02-15 18:58 G	26704058.19	26704058.29	26704058.41	0.0088	0.0068	
Mercury	68401-05-14 21:22 G	26704146.33	26704146.39	26704146.49	0.0088	0.0078	
Mercury	68401-08-11 00:15 G	26704234.50	26704234.51	26704234.54	0.0088	0.0087	
Venus	68401-08-26 02:24 G	26704249.60	26704249.60	26704249.63	0.0088	0.0088	
Moon	68402-01-28 18:58 G	26704405.09	26704405.29	26704405.52	0.0088	0.0049	
Earth	68402-01-28 21:51 G	26704405.21	26704405.41	26704405.65	0.0088	0.0048	*
Earth	68403-01-31 09:36 G	26704772.79	26704772.90	26704773.04	0.0088	0.0076	
Moon	68403-01-31 12:00 G	26704772.89	26704773.00	26704773.16	0.0088	0.0076	*
Mars	68431-01-17 05:31 G	26714985.47	26714985.73	26714986.02	0.0089	0.0038	
Venus	68463-05-27 00:58 G	26726803.49	26726803.54	26726803.63	0.0090	0.0085	
Venus	68464-01-07 14:10 G	26727029.02	26727029.09	26727029.21	0.0090	0.0080	
Venus	68464-08-20 03:51 G	26727254.55	26727254.66	26727254.79	0.0090	0.0074	
Venus	68465-04-02 17:03 G	26727480.09	26727480.21	26727480.37	0.0090	0.0069	
Venus	68465-11-14 06:15 G	26727705.63	26727705.76	26727705.94	0.0090	0.0064	
Venus	68466-06-27 19:55 G	26727931.17	26727931.33	26727931.50	0.0090	0.0058	
Venus	68467-02-08 08:53 G	26728156.71	26728156.87	26728157.07	0.0090	0.0053	
Venus	68467-09-21 22:34 G	26728382.26	26728382.44	26728382.63	0.0090	0.0047	
Venus	68468-05-04 11:46 G	26728607.81	26728607.99	26728608.20	0.0090	0.0042	
Venus	68468-12-16 01:12 G	26728833.36	26728833.55	26728833.76	0.0090	0.0036	
Venus	68469-07-29 14:39 G	26729058.90	26729059.11	26729059.32	0.0090	0.0030	
Venus	68470-03-12 03:36 G	26729284.45	26729284.65	26729284.88	0.0090	0.0025	



Venus	68470-10-23 17:17 G	26729510.01	26729510.22	26729510.43	0.0090	0.0019
Venus	68471-06-06 06:29 G	26729735.56	26729735.77	26729735.99	0.0090	0.0013
Venus	68472-01-17 19:41 G	26729961.11	26729961.32	26729961.54	0.0090	0.0008
Venus	68472-08-30 09:07 G	26730186.66	26730186.88	26730187.10	0.0090	0.0002
Venus	68473-04-12 22:19 G	26730412.22	26730412.43	26730412.65	0.0090	0.0004
Venus	68473-11-24 11:31 G	26730637.77	26730637.98	26730638.21	0.0090	0.0010
Venus	68474-07-08 00:58 G	26730863.32	26730863.54	26730863.76	0.0090	0.0015
Venus	68475-02-18 14:10 G	26731088.88	26731089.09	26731089.31	0.0090	0.0021
Venus	68475-10-02 03:22 G	26731314.44	26731314.64	26731314.86	0.0090	0.0027
Venus	68476-05-14 17:03 G	26731540.01	26731540.21	26731540.42	0.0090	0.0032
Venus	68476-12-26 06:00 G	26731765.57	26731765.75	26731765.97	0.0090	0.0038
Venus	68477-08-08 19:41 G	26731991.13	26731991.32	26731991.51	0.0090	0.0043
Venus	68478-03-22 08:53 G	26732216.70	26732216.87	26732217.06	0.0089	0.0049
Mercury	68478-08-01 12:00 G	26732348.95	26732349.00	26732349.07	0.0089	0.0082
Mercury	68478-10-28 13:55 G	26732437.01	26732437.08	26732437.17	0.0089	0.0074
Venus	68478-11-02 22:05 G	26732442.26	26732442.42	26732442.61	0.0089	0.0054
Mercury	68479-01-24 15:36 G	26732525.07	26732525.15	26732525.27	0.0089	0.0066
Mercury	68479-04-22 17:46 G	26732613.13	26732613.24	26732613.36	0.0089	0.0056
Venus	68479-06-16 11:31 G	26732667.83	26732667.98	26732668.16	0.0089	0.0060
Moon	68479-07-19 16:48 G	26732701.06	26732701.20	26732701.37	0.0089	0.0072
Earth	68479-07-19 19:55 G	26732701.17	26732701.33	26732701.51	0.0089	0.0067 *
Mercury	68479-07-19 19:41 G	26732701.20	26732701.32	26732701.45	0.0089	0.0048 *
Mercury	68479-10-15 21:22 G	26732789.27	26732789.39	26732789.53	0.0089	0.0040
Mercury	68480-01-11 23:17 G	26732877.34	26732877.47	26732877.61	0.0089	0.0031
Venus	68480-01-28 01:12 G	26732893.40	26732893.55	26732893.70	0.0089	0.0065
Mercury	68480-04-09 01:12 G	26732965.41	26732965.55	26732965.69	0.0089	0.0022
Mercury	68480-07-06 02:53 G	26733053.48	26733053.62	26733053.77	0.0089	0.0015
Earth	68480-07-21 07:27 G	26733068.58	26733068.81	26733069.05	0.0089	0.0038
Moon	68480-07-21 10:19 G	26733068.72	26733068.93	26733069.18	0.0089	0.0034 *
Venus	68480-09-09 14:10 G	26733118.97	26733119.09	26733119.24	0.0089	0.0071

Mercury	68480-10-02 04:48 G	26733141.55	26733141.70	26733141.85	0.0089	0.0006
Mercury	68480-12-29 06:43 G	26733229.63	26733229.78	26733229.92	0.0089	0.0004
Mercury	68481-03-27 08:24 G	26733317.71	26733317.85	26733318.00	0.0089	0.0011
Venus	68481-04-23 03:51 G	26733344.55	26733344.66	26733344.78	0.0089	0.0076
Mercury	68481-06-23 10:05 G	26733405.78	26733405.92	26733406.07	0.0089	0.0019
Moon	68481-07-23 15:22 G	26733435.89	26733436.14	26733436.40	0.0089	0.0013
Earth	68481-07-23 18:58 G	26733436.04	26733436.29	26733436.55	0.0089	0.0008 *
Mercury	68481-09-19 11:46 G	26733493.86	26733493.99	26733494.14	0.0089	0.0028
Venus	68481-12-04 16:48 G	26733570.13	26733570.20	26733570.32	0.0089	0.0082
Mercury	68481-12-16 13:41 G	26733581.94	26733582.07	26733582.20	0.0089	0.0036
Mercury	68482-03-14 15:07 G	26733670.02	26733670.13	26733670.27	0.0089	0.0045
Mercury	68482-06-10 17:03 G	26733758.10	26733758.21	26733758.33	0.0089	0.0052
Venus	68482-07-18 06:15 G	26733795.72	26733795.76	26733795.83	0.0089	0.0087
Earth	68482-07-26 06:15 G	26733803.52	26733803.76	26733804.02	0.0089	0.0021
Moon	68482-07-26 09:22 G	26733803.66	26733803.89	26733804.16	0.0089	0.0027 *
Mercury	68482-09-06 18:43 G	26733846.18	26733846.28	26733846.40	0.0089	0.0060
Mercury	68482-12-03 20:24 G	26733934.27	26733934.35	26733934.45	0.0089	0.0069
Mercury	68483-03-01 22:05 G	26734022.36	26734022.42	26734022.51	0.0089	0.0077
Mercury	68483-05-28 23:46 G	26734110.46	26734110.49	26734110.55	0.0089	0.0085
Moon	68483-07-28 15:07 G	26734170.93	26734171.13	26734171.36	0.0089	0.0047
Earth	68483-07-28 17:46 G	26734171.04	26734171.24	26734171.46	0.0089	0.0051 *
Earth	68484-07-30 04:48 G	26734538.61	26734538.70	26734538.83	0.0089	0.0080
Moon	68484-07-30 06:58 G	26734538.72	26734538.79	26734538.90	0.0089	0.0084 *
Mars	68512-12-18 00:15 G	26744905.22	26744905.51	26744905.84	0.0088	0.0027
Jupiter	68516-06-14 02:24 G	26746179.06	26746179.60	26746180.14	0.0088	0.0000
Venus	68545-07-14 00:43 G	26756801.49	26756801.53	26756801.63	0.0088	0.0084
Venus	68546-02-24 13:41 G	26757027.00	26757027.07	26757027.19	0.0088	0.0079
Venus	68546-10-08 03:07 G	26757252.51	26757252.63	26757252.75	0.0088	0.0073
Venus	68547-05-21 15:51 G	26757478.02	26757478.16	26757478.30	0.0088	0.0068
Venus	68548-01-02 04:19 G	26757703.54	26757703.68	26757703.84	0.0088	0.0063

Venus	68548-08-14 17:03 G	26757929.05	26757929.21	26757929.38	0.0088	0.0058
Venus	68549-03-28 05:31 G	26758154.57	26758154.73	26758154.93	0.0088	0.0053
Venus	68549-11-08 18:29 G	26758380.10	26758380.27	26758380.47	0.0088	0.0048
Venus	68550-06-22 07:27 G	26758605.62	26758605.81	26758606.01	0.0088	0.0042
Venus	68551-02-02 20:10 G	26758831.14	26758831.34	26758831.54	0.0088	0.0037
Venus	68551-09-16 08:53 G	26759056.67	26759056.87	26759057.08	0.0088	0.0032
Venus	68552-04-28 21:22 G	26759282.20	26759282.39	26759282.62	0.0088	0.0027
Venus	68552-12-10 10:34 G	26759507.72	26759507.94	26759508.15	0.0088	0.0021
Venus	68553-07-23 23:03 G	26759733.25	26759733.46	26759733.69	0.0088	0.0016
Venus	68554-03-06 11:46 G	26759958.78	26759958.99	26759959.22	0.0088	0.0011
Venus	68554-10-18 00:58 G	26760184.32	26760184.54	26760184.76	0.0088	0.0005
Venus	68555-05-31 13:41 G	26760409.85	26760410.07	26760410.29	0.0088	0.0001
Venus	68556-01-12 02:24 G	26760635.38	26760635.60	26760635.82	0.0088	0.0006
Venus	68556-08-24 15:07 G	26760860.91	26760861.13	26760861.35	0.0088	0.0011
Venus	68557-04-07 03:36 G	26761086.44	26761086.65	26761086.88	0.0088	0.0017
Venus	68557-11-18 16:34 G	26761311.98	26761312.19	26761312.41	0.0088	0.0022
Venus	68558-07-02 05:17 G	26761537.52	26761537.72	26761537.94	0.0088	0.0027
Venus	68559-02-12 17:46 G	26761763.05	26761763.24	26761763.46	0.0088	0.0033
Venus	68559-09-26 06:29 G	26761988.59	26761988.77	26761988.98	0.0088	0.0038
Venus	68560-05-08 19:27 G	26762214.12	26762214.31	26762214.51	0.0088	0.0043
Venus	68560-12-20 08:10 G	26762439.66	26762439.84	26762440.03	0.0088	0.0048
Venus	68561-08-02 20:24 G	26762665.20	26762665.35	26762665.55	0.0088	0.0054
Mercury	68561-10-07 22:34 G	26762731.40	26762731.44	26762731.51	0.0088	0.0082
Mercury	68562-01-04 01:12 G	26762819.47	26762819.55	26762819.65	0.0088	0.0073
Earth	68562-01-20 08:10 G	26762835.72	26762835.84	26762835.96	0.0088	0.0078
Moon	68562-01-20 11:03 G	26762835.89	26762835.96	26762836.05	0.0088	0.0083 *
Venus	68562-03-16 09:07 G	26762890.74	26762890.88	26762891.06	0.0088	0.0059
Mercury	68562-04-02 03:36 G	26762907.55	26762907.65	26762907.77	0.0088	0.0064
Mercury	68562-06-29 06:15 G	26762995.63	26762995.76	26762995.89	0.0088	0.0055
Mercury	68562-09-25 08:39 G	26763083.72	26763083.86	26763084.01	0.0088	0.0046

Venus	68562-10-27 22:05 G	26763116.28	26763116.42	26763116.58	0.0088	0.0064
Mercury	68562-12-22 11:17 G	26763171.82	26763171.97	26763172.12	0.0088	0.0037
Moon	68563-01-22 15:51 G	26763202.95	26763203.16	26763203.40	0.0088	0.0046
Earth	68563-01-22 19:41 G	26763203.12	26763203.32	26763203.55	0.0088	0.0050 *
Mercury	68563-03-20 13:41 G	26763259.91	26763260.07	26763260.23	0.0088	0.0028
Venus	68563-06-10 10:48 G	26763341.83	26763341.95	26763342.10	0.0088	0.0069
Mercury	68563-06-16 16:19 G	26763348.01	26763348.18	26763348.34	0.0088	0.0019
Mercury	68563-09-12 18:43 G	26763436.11	26763436.28	26763436.45	0.0088	0.0010
Mercury	68563-12-09 21:22 G	26763524.22	26763524.39	26763524.56	0.0088	0.0001
Venus	68564-01-21 23:31 G	26763567.37	26763567.48	26763567.61	0.0088	0.0074
Earth	68564-01-25 07:27 G	26763570.57	26763570.81	26763571.08	0.0088	0.0022
Moon	68564-01-25 10:48 G	26763570.71	26763570.95	26763571.22	0.0088	0.0026 *
Mercury	68564-03-06 23:46 G	26763612.33	26763612.49	26763612.67	0.0088	0.0009
Mercury	68564-06-03 02:24 G	26763700.44	26763700.60	26763700.77	0.0088	0.0018
Mercury	68564-08-30 05:03 G	26763788.55	26763788.71	26763788.87	0.0088	0.0027
Venus	68564-09-03 12:00 G	26763792.92	26763793.00	26763793.11	0.0088	0.0079
Mercury	68564-11-26 07:41 G	26763876.66	26763876.82	26763876.97	0.0088	0.0036
Moon	68565-01-26 16:19 G	26763937.94	26763938.18	26763938.45	0.0088	0.0012
Earth	68565-01-26 19:41 G	26763938.06	26763938.32	26763938.58	0.0088	0.0007 *
Mercury	68565-02-22 10:05 G	26763964.78	26763964.92	26763965.07	0.0088	0.0046
Venus	68565-04-17 00:43 G	26764018.49	26764018.53	26764018.61	0.0088	0.0084
Mercury	68565-05-21 12:43 G	26764052.90	26764053.03	26764053.17	0.0088	0.0055
Mercury	68565-08-17 15:07 G	26764141.03	26764141.13	26764141.26	0.0088	0.0065
Mercury	68565-11-13 18:00 G	26764229.17	26764229.25	26764229.35	0.0088	0.0074
Earth	68566-01-29 07:27 G	26764305.57	26764305.81	26764306.05	0.0088	0.0035
Moon	68566-01-29 09:07 G	26764305.64	26764305.88	26764306.14	0.0088	0.0031 *
Mercury	68566-02-09 20:24 G	26764317.32	26764317.35	26764317.42	0.0088	0.0084
Moon	68567-01-31 18:00 G	26764673.12	26764673.25	26764673.43	0.0088	0.0068
Earth	68567-01-31 18:43 G	26764673.13	26764673.28	26764673.49	0.0088	0.0064 *
Moon	68568-02-03 06:58 G	26765040.77	26765040.79	26765040.83	0.0088	0.0087

Mars	68596-07-27 15:07 G	26775442.91	26775443.13	26775443.41	0.0089	0.0050
Venus	68627-01-16 22:48 G	26786572.45	26786572.45	26786572.47	0.0090	0.0090
Venus	68627-08-30 12:15 G	26786797.94	26786798.01	26786798.09	0.0090	0.0084
Venus	68628-04-12 01:27 G	26787023.47	26787023.56	26787023.67	0.0090	0.0079
Venus	68628-11-23 14:24 G	26787249.00	26787249.10	26787249.24	0.0090	0.0074
Venus	68629-07-07 04:05 G	26787474.53	26787474.67	26787474.81	0.0090	0.0068
Venus	68630-02-17 17:03 G	26787700.07	26787700.21	26787700.38	0.0090	0.0063
Venus	68630-10-01 06:15 G	26787925.61	26787925.76	26787925.95	0.0090	0.0058
Venus	68631-05-14 19:55 G	26788151.16	26788151.33	26788151.52	0.0090	0.0052
Venus	68631-12-26 09:22 G	26788376.71	26788376.89	26788377.08	0.0090	0.0046
Venus	68632-08-07 22:34 G	26788602.25	26788602.44	26788602.64	0.0090	0.0041
Venus	68633-03-21 12:00 G	26788827.81	26788828.00	26788828.21	0.0090	0.0035
Venus	68633-11-02 01:12 G	26789053.36	26789053.55	26789053.77	0.0090	0.0030
Venus	68634-06-15 14:39 G	26789278.91	26789279.11	26789279.33	0.0090	0.0024
Venus	68635-01-27 04:05 G	26789504.46	26789504.67	26789504.89	0.0090	0.0018
Venus	68635-09-09 17:17 G	26789730.01	26789730.22	26789730.44	0.0090	0.0012
Venus	68636-04-22 06:43 G	26789955.56	26789955.78	26789956.00	0.0090	0.0007
Venus	68636-12-03 20:10 G	26790181.12	26790181.34	26790181.56	0.0090	0.0002
Venus	68637-07-17 09:22 G	26790406.67	26790406.89	26790407.11	0.0090	0.0005
Venus	68638-02-27 22:34 G	26790632.22	26790632.44	26790632.66	0.0090	0.0010
Venus	68638-10-11 11:46 G	26790857.78	26790857.99	26790858.21	0.0090	0.0016
Venus	68639-05-25 01:12 G	26791083.34	26791083.55	26791083.77	0.0090	0.0022
Venus	68640-01-05 14:24 G	26791308.90	26791309.10	26791309.32	0.0090	0.0027
Venus	68640-08-18 03:51 G	26791534.46	26791534.66	26791534.86	0.0090	0.0033
Venus	68641-03-31 17:03 G	26791760.02	26791760.21	26791760.41	0.0090	0.0039
Venus	68641-11-12 06:15 G	26791985.58	26791985.76	26791985.96	0.0090	0.0045
Venus	68642-06-25 19:41 G	26792211.15	26792211.32	26792211.51	0.0090	0.0050
Mercury	68643-02-01 09:36 G	26792431.87	26792431.90	26792431.96	0.0089	0.0086
Venus	68643-02-06 08:53 G	26792436.71	26792436.87	26792437.06	0.0089	0.0056
Mercury	68643-04-30 11:46 G	26792519.92	26792519.99	26792520.07	0.0089	0.0077

Earth	68643-07-21 05:46 G	26792601.65	26792601.74	26792601.88	0.0089	0.0080
Moon	68643-07-21 09:51 G	26792601.80	26792601.91	26792602.03	0.0089	0.0079 *
Mercury	68643-07-27 13:27 G	26792607.98	26792608.06	26792608.17	0.0089	0.0068
Venus	68643-09-19 22:34 G	26792662.28	26792662.44	26792662.60	0.0089	0.0061
Mercury	68643-10-23 15:22 G	26792696.04	26792696.14	26792696.26	0.0089	0.0060
Mercury	68644-01-19 17:03 G	26792784.10	26792784.21	26792784.35	0.0089	0.0052
Mercury	68644-04-16 19:12 G	26792872.17	26792872.30	26792872.43	0.0089	0.0042
Venus	68644-05-02 11:46 G	26792887.86	26792887.99	26792888.15	0.0089	0.0067
Mercury	68644-07-13 21:07 G	26792960.24	26792960.38	26792960.52	0.0089	0.0034
Moon	68644-07-22 14:10 G	26792968.90	26792969.09	26792969.31	0.0089	0.0051
Earth	68644-07-22 17:31 G	26792969.04	26792969.23	26792969.46	0.0089	0.0050 *
Mercury	68644-10-09 22:48 G	26793048.32	26793048.45	26793048.60	0.0089	0.0026
Venus	68644-12-14 01:12 G	26793113.43	26793113.55	26793113.69	0.0089	0.0072
Mercury	68645-01-06 00:43 G	26793136.39	26793136.53	26793136.68	0.0089	0.0017
Mercury	68645-04-04 02:39 G	26793224.46	26793224.61	26793224.76	0.0089	0.0009
Mercury	68645-07-01 04:19 G	26793312.54	26793312.68	26793312.83	0.0089	0.0003
Earth	68645-07-25 05:31 G	26793336.48	26793336.73	26793336.98	0.0089	0.0021
Moon	68645-07-25 08:39 G	26793336.61	26793336.86	26793337.12	0.0089	0.0019 *
Venus	68645-07-27 14:24 G	26793339.01	26793339.10	26793339.23	0.0089	0.0077
Mercury	68645-09-27 06:15 G	26793400.61	26793400.76	26793400.91	0.0089	0.0008
Mercury	68645-12-24 07:55 G	26793488.69	26793488.83	26793488.98	0.0089	0.0017
Venus	68646-03-10 03:51 G	26793564.59	26793564.66	26793564.76	0.0089	0.0083
Mercury	68646-03-22 09:51 G	26793576.77	26793576.91	26793577.05	0.0089	0.0025
Mercury	68646-06-18 11:17 G	26793664.85	26793664.97	26793665.12	0.0089	0.0034
Moon	68646-07-27 14:53 G	26793703.87	26793704.12	26793704.37	0.0089	0.0008
Earth	68646-07-27 17:03 G	26793703.96	26793704.21	26793704.47	0.0089	0.0008 *
Mercury	68646-09-14 13:12 G	26793752.93	26793753.05	26793753.19	0.0089	0.0041
Venus	68646-10-21 17:17 G	26793790.19	26793790.22	26793790.27	0.0089	0.0088
Mercury	68646-12-11 14:53 G	26793841.01	26793841.12	26793841.25	0.0089	0.0050
Mercury	68647-03-09 16:48 G	26793929.09	26793929.20	26793929.31	0.0089	0.0058

Mercury	68647-06-05 18:29 G	26794017.18	26794017.27	26794017.37	0.0089	0.0066
Earth	68647-07-30 04:19 G	26794071.45	26794071.68	26794071.92	0.0089	0.0038
Moon	68647-07-30 05:17 G	26794071.49	26794071.72	26794071.97	0.0089	0.0039 *
Mercury	68647-09-01 20:10 G	26794105.27	26794105.34	26794105.43	0.0089	0.0074
Mercury	68647-11-28 22:05 G	26794193.37	26794193.42	26794193.48	0.0089	0.0082
Moon	68648-07-31 15:22 G	26794438.99	26794439.14	26794439.32	0.0089	0.0066
Earth	68648-07-31 15:22 G	26794439.00	26794439.14	26794439.33	0.0089	0.0067 *
Mars	68676-08-02 06:15 G	26804667.47	26804667.76	26804668.07	0.0088	0.0036
Jupiter	68682-08-16 16:05 G	26806872.68	26806873.17	26806873.71	0.0088	0.0028
Venus	68709-10-17 12:29 G	26816795.97	26816796.02	26816796.11	0.0088	0.0083
Venus	68710-05-31 01:12 G	26817021.47	26817021.55	26817021.67	0.0088	0.0078
Venus	68711-01-11 13:55 G	26817246.98	26817247.08	26817247.22	0.0088	0.0073
Venus	68711-08-25 02:53 G	26817472.50	26817472.62	26817472.77	0.0088	0.0068
Venus	68712-04-06 15:36 G	26817698.01	26817698.15	26817698.32	0.0088	0.0063
Venus	68712-11-18 04:48 G	26817923.54	26817923.70	26817923.87	0.0088	0.0057
Venus	68713-07-01 17:17 G	26818149.05	26818149.22	26818149.41	0.0088	0.0052
Venus	68714-02-12 06:00 G	26818374.58	26818374.75	26818374.95	0.0088	0.0047
Venus	68714-09-25 18:43 G	26818600.10	26818600.28	26818600.49	0.0088	0.0042
Venus	68715-05-09 07:41 G	26818825.63	26818825.82	26818826.03	0.0088	0.0036
Venus	68715-12-20 20:24 G	26819051.15	26819051.35	26819051.56	0.0088	0.0031
Venus	68716-08-02 08:53 G	26819276.67	26819276.87	26819277.10	0.0088	0.0026
Venus	68717-03-15 21:51 G	26819502.20	26819502.41	26819502.63	0.0088	0.0020
Venus	68717-10-27 10:48 G	26819727.74	26819727.95	26819728.17	0.0088	0.0015
Venus	68718-06-09 23:31 G	26819953.27	26819953.48	26819953.71	0.0088	0.0010
Venus	68719-01-21 12:15 G	26820178.79	26820179.01	26820179.24	0.0088	0.0004
Venus	68719-09-04 00:58 G	26820404.32	26820404.54	26820404.77	0.0088	0.0003
Venus	68720-04-16 13:55 G	26820629.86	26820630.08	26820630.30	0.0088	0.0007
Venus	68720-11-28 02:39 G	26820855.39	26820855.61	26820855.83	0.0088	0.0012
Venus	68721-07-11 15:22 G	26821080.93	26821081.14	26821081.36	0.0088	0.0018
Venus	68722-02-22 04:05 G	26821306.46	26821306.67	26821306.89	0.0088	0.0023

Venus	68722-10-05 16:48 G	26821532.00	26821532.20	26821532.42	0.0088	0.0029
Venus	68723-05-19 05:31 G	26821757.54	26821757.73	26821757.94	0.0088	0.0034
Venus	68723-12-30 18:29 G	26821983.07	26821983.27	26821983.47	0.0088	0.0039
Venus	68724-08-12 06:43 G	26822208.61	26822208.78	26822208.99	0.0088	0.0045
Venus	68725-03-25 19:27 G	26822434.15	26822434.31	26822434.51	0.0088	0.0050
Venus	68725-11-06 08:24 G	26822659.69	26822659.85	26822660.03	0.0088	0.0055
Mercury	68726-04-09 19:41 G	26822814.28	26822814.32	26822814.37	0.0088	0.0084
Venus	68726-06-19 21:22 G	26822885.23	26822885.39	26822885.55	0.0088	0.0060
Mercury	68726-07-06 21:51 G	26822902.34	26822902.41	26822902.51	0.0088	0.0076
Mercury	68726-10-03 00:15 G	26822990.42	26822990.51	26822990.64	0.0088	0.0067
Mercury	68726-12-30 02:53 G	26823078.50	26823078.62	26823078.76	0.0088	0.0058
Earth	68727-01-24 05:31 G	26823103.56	26823103.73	26823103.92	0.0088	0.0062
Moon	68727-01-24 09:07 G	26823103.69	26823103.88	26823104.08	0.0088	0.0059 *
Venus	68727-01-31 09:22 G	26823110.77	26823110.89	26823111.06	0.0088	0.0066
Mercury	68727-03-28 05:17 G	26823166.59	26823166.72	26823166.87	0.0088	0.0049
Mercury	68727-06-24 07:55 G	26823254.69	26823254.83	26823254.99	0.0088	0.0040
Venus	68727-09-13 22:05 G	26823336.31	26823336.42	26823336.57	0.0088	0.0071
Mercury	68727-09-20 10:19 G	26823342.78	26823342.93	26823343.10	0.0088	0.0031
Mercury	68727-12-17 12:58 G	26823430.88	26823431.04	26823431.21	0.0088	0.0022
Moon	68728-01-26 15:22 G	26823470.91	26823471.14	26823471.37	0.0088	0.0036
Earth	68728-01-26 17:17 G	26823471.00	26823471.22	26823471.48	0.0088	0.0034 *
Mercury	68728-03-14 15:22 G	26823518.98	26823519.14	26823519.31	0.0088	0.0013
Venus	68728-04-26 10:48 G	26823561.86	26823561.95	26823562.08	0.0088	0.0076
Mercury	68728-06-10 18:00 G	26823607.08	26823607.25	26823607.42	0.0088	0.0004
Mercury	68728-09-06 20:24 G	26823695.19	26823695.35	26823695.53	0.0088	0.0006
Mercury	68728-12-03 23:03 G	26823783.29	26823783.46	26823783.63	0.0088	0.0015
Venus	68728-12-07 23:31 G	26823787.42	26823787.48	26823787.59	0.0088	0.0081
Earth	68729-01-28 05:17 G	26823838.46	26823838.72	26823838.98	0.0088	0.0006
Moon	68729-01-28 07:12 G	26823838.53	26823838.80	26823839.07	0.0088	0.0004 *
Mercury	68729-03-02 01:27 G	26823871.40	26823871.56	26823871.73	0.0088	0.0024



Mercury	68729-05-29 04:05 G	26823959.52	26823959.67	26823959.83	0.0088	0.0033
Venus	68729-07-21 12:15 G	26824012.99	26824013.01	26824013.08	0.0088	0.0086
Mercury	68729-08-25 06:43 G	26824047.63	26824047.78	26824047.93	0.0088	0.0042
Mercury	68729-11-21 09:07 G	26824135.75	26824135.88	26824136.03	0.0088	0.0052
Moon	68730-01-30 16:34 G	26824205.96	26824206.19	26824206.45	0.0088	0.0021
Earth	68730-01-30 17:03 G	26824205.96	26824206.21	26824206.47	0.0088	0.0023 *
Mercury	68730-02-17 11:46 G	26824223.88	26824223.99	26824224.12	0.0088	0.0061
Mercury	68730-05-16 14:10 G	26824312.01	26824312.09	26824312.21	0.0088	0.0071
Mercury	68730-08-12 17:03 G	26824400.15	26824400.21	26824400.29	0.0088	0.0080
Moon	68731-02-02 03:51 G	26824573.45	26824573.66	26824573.88	0.0088	0.0053
Earth	68731-02-02 04:48 G	26824573.50	26824573.70	26824573.92	0.0088	0.0051 *
Earth	68732-02-04 16:05 G	26824941.10	26824941.17	26824941.31	0.0088	0.0080
Moon	68732-02-04 18:29 G	26824941.16	26824941.27	26824941.39	0.0088	0.0078 *
Mars	68760-03-13 19:55 G	26835206.04	26835206.33	26835206.64	0.0089	0.0009
Venus	68791-04-21 10:19 G	26846566.92	26846566.93	26846566.97	0.0090	0.0089
Venus	68791-12-02 23:31 G	26846792.42	26846792.48	26846792.57	0.0090	0.0084
Venus	68792-07-15 12:29 G	26847017.94	26847018.02	26847018.15	0.0090	0.0079
Venus	68793-02-26 01:55 G	26847243.47	26847243.58	26847243.72	0.0090	0.0073
Venus	68793-10-09 15:07 G	26847469.00	26847469.13	26847469.29	0.0090	0.0068
Venus	68794-05-23 04:34 G	26847694.54	26847694.69	26847694.86	0.0090	0.0062
Venus	68795-01-03 17:31 G	26847920.08	26847920.23	26847920.42	0.0090	0.0057
Venus	68795-08-17 06:58 G	26848145.62	26848145.79	26848145.98	0.0090	0.0051
Venus	68796-03-29 20:10 G	26848371.17	26848371.34	26848371.55	0.0090	0.0046
Venus	68796-11-10 09:36 G	26848596.72	26848596.90	26848597.11	0.0090	0.0040
Venus	68797-06-23 23:17 G	26848822.27	26848822.47	26848822.67	0.0090	0.0034
Venus	68798-02-04 12:15 G	26849047.81	26849048.01	26849048.23	0.0090	0.0029
Venus	68798-09-18 01:41 G	26849273.36	26849273.57	26849273.79	0.0090	0.0023
Venus	68799-05-01 15:22 G	26849498.92	26849499.14	26849499.35	0.0090	0.0017
Venus	68799-12-13 04:19 G	26849724.47	26849724.68	26849724.91	0.0090	0.0012
Venus	68800-07-25 17:46 G	26849950.02	26849950.24	26849950.46	0.0090	0.0006

Venus	68801-03-08 07:12 G	26850175.58	26850175.80	26850176.02	0.0090	0.0001
Venus	68801-10-19 20:24 G	26850401.13	26850401.35	26850401.57	0.0090	0.0006
Venus	68802-06-02 09:51 G	26850626.69	26850626.91	26850627.13	0.0090	0.0012
Venus	68803-01-13 22:48 G	26850852.25	26850852.45	26850852.68	0.0090	0.0018
Venus	68803-08-27 12:15 G	26851077.80	26851078.01	26851078.22	0.0090	0.0023
Venus	68804-04-09 01:27 G	26851303.36	26851303.56	26851303.78	0.0090	0.0029
Venus	68804-11-20 14:39 G	26851528.92	26851529.11	26851529.33	0.0090	0.0035
Venus	68805-07-04 04:05 G	26851754.48	26851754.67	26851754.87	0.0090	0.0040
Venus	68806-02-14 17:17 G	26851980.04	26851980.22	26851980.42	0.0090	0.0046
Venus	68806-09-28 06:15 G	26852205.60	26852205.76	26852205.96	0.0090	0.0052
Venus	68807-05-11 19:55 G	26852431.17	26852431.33	26852431.51	0.0090	0.0057
Moon	68807-07-21 13:12 G	26852501.99	26852502.05	26852502.10	0.0090	0.0087
Mercury	68807-08-03 07:12 G	26852514.80	26852514.80	26852514.84	0.0090	0.0089
Mercury	68807-10-30 09:22 G	26852602.83	26852602.89	26852602.96	0.0089	0.0080
Venus	68807-12-23 09:07 G	26852656.74	26852656.88	26852657.05	0.0089	0.0063
Mercury	68808-01-26 11:03 G	26852690.89	26852690.96	26852691.06	0.0089	0.0072
Mercury	68808-04-23 13:12 G	26852778.95	26852779.05	26852779.16	0.0089	0.0063
Mercury	68808-07-20 14:53 G	26852867.01	26852867.12	26852867.25	0.0089	0.0054
Earth	68808-07-23 03:51 G	26852869.49	26852869.66	26852869.85	0.0089	0.0063
Moon	68808-07-23 06:15 G	26852869.61	26852869.76	26852869.95	0.0089	0.0068 *
Venus	68808-08-04 22:34 G	26852882.31	26852882.44	26852882.59	0.0089	0.0068
Mercury	68808-10-16 16:48 G	26852955.08	26852955.20	26852955.34	0.0089	0.0046
Mercury	68809-01-12 18:43 G	26853043.15	26853043.28	26853043.42	0.0089	0.0037
Venus	68809-03-18 11:31 G	26853107.88	26853107.98	26853108.13	0.0089	0.0074
Mercury	68809-04-10 20:39 G	26853131.22	26853131.36	26853131.50	0.0089	0.0029
Mercury	68809-07-07 22:19 G	26853219.30	26853219.43	26853219.58	0.0089	0.0021
Moon	68809-07-25 13:27 G	26853236.84	26853237.06	26853237.30	0.0089	0.0029
Earth	68809-07-25 15:36 G	26853236.92	26853237.15	26853237.39	0.0089	0.0034 *
Mercury	68809-10-04 00:29 G	26853307.37	26853307.52	26853307.66	0.0089	0.0012
Venus	68809-10-30 01:12 G	26853333.46	26853333.55	26853333.67	0.0089	0.0079

Mercury	68809-12-31 02:10 G	26853395.44	26853395.59	26853395.74	0.0089	0.0003
Mercury	68810-03-29 04:05 G	26853483.52	26853483.67	26853483.81	0.0089	0.0005
Venus	68810-06-12 14:53 G	26853559.05	26853559.12	26853559.20	0.0089	0.0084
Mercury	68810-06-25 05:46 G	26853571.60	26853571.74	26853571.89	0.0089	0.0014
Earth	68810-07-28 03:07 G	26853604.38	26853604.63	26853604.89	0.0089	0.0004
Moon	68810-07-28 03:51 G	26853604.40	26853604.66	26853604.93	0.0089	0.0009 *
Mercury	68810-09-21 07:41 G	26853659.68	26853659.82	26853659.96	0.0089	0.0022
Mercury	68810-12-18 09:22 G	26853747.76	26853747.89	26853748.03	0.0089	0.0030
Venus	68811-01-24 04:05 G	26853784.67	26853784.67	26853784.69	0.0089	0.0089
Mercury	68811-03-16 11:03 G	26853835.84	26853835.96	26853836.10	0.0089	0.0039
Mercury	68811-06-12 12:58 G	26853923.92	26853924.04	26853924.16	0.0089	0.0047
Earth	68811-07-30 14:24 G	26853971.87	26853972.10	26853972.36	0.0089	0.0026
Moon	68811-07-30 15:22 G	26853971.92	26853972.14	26853972.38	0.0089	0.0030 *
Mercury	68811-09-08 14:39 G	26854012.00	26854012.11	26854012.23	0.0089	0.0055
Mercury	68811-12-05 16:05 G	26854100.09	26854100.17	26854100.29	0.0089	0.0064
Mercury	68812-03-02 18:00 G	26854188.18	26854188.25	26854188.35	0.0089	0.0071
Mercury	68812-05-29 19:41 G	26854276.27	26854276.32	26854276.40	0.0089	0.0080
Moon	68812-08-01 00:29 G	26854339.32	26854339.52	26854339.75	0.0089	0.0050
Earth	68812-08-01 01:55 G	26854339.40	26854339.58	26854339.80	0.0089	0.0055 *
Mercury	68812-08-25 21:22 G	26854364.38	26854364.39	26854364.43	0.0089	0.0088
Earth	68813-08-03 13:12 G	26854706.99	26854707.05	26854707.17	0.0089	0.0084
Moon	68813-08-03 16:05 G	26854707.16	26854707.17	26854707.22	0.0089	0.0089 *
Mars	68842-02-10 20:24 G	26865125.14	26865125.35	26865125.63	0.0088	0.0059
Jupiter	68848-10-19 16:05 G	26867567.79	26867568.17	26867568.65	0.0088	0.0054
Venus	68873-06-07 10:48 G	26876564.95	26876564.95	26876564.99	0.0088	0.0088
Venus	68874-01-18 23:31 G	26876790.43	26876790.48	26876790.58	0.0088	0.0083
Venus	68874-09-01 12:58 G	26877015.94	26877016.04	26877016.14	0.0088	0.0077
Venus	68875-04-15 01:41 G	26877241.45	26877241.57	26877241.70	0.0088	0.0072
Venus	68875-11-26 14:24 G	26877466.97	26877467.10	26877467.25	0.0088	0.0067
Venus	68876-07-09 02:53 G	26877692.49	26877692.62	26877692.80	0.0088	0.0062

Venus	68877-02-19 15:51 G	26877918.01	26877918.16	26877918.34	0.0088	0.0057
Venus	68877-10-03 05:03 G	26878143.53	26878143.71	26878143.89	0.0088	0.0051
Venus	68878-05-16 17:31 G	26878369.06	26878369.23	26878369.43	0.0088	0.0046
Venus	68878-12-28 06:15 G	26878594.58	26878594.76	26878594.97	0.0088	0.0041
Venus	68879-08-10 19:12 G	26878820.10	26878820.30	26878820.51	0.0088	0.0035
Venus	68880-03-23 07:55 G	26879045.63	26879045.83	26879046.04	0.0088	0.0030
Venus	68880-11-03 20:39 G	26879271.16	26879271.36	26879271.58	0.0088	0.0025
Venus	68881-06-17 09:36 G	26879496.69	26879496.90	26879497.12	0.0088	0.0019
Venus	68882-01-28 22:05 G	26879722.21	26879722.42	26879722.65	0.0088	0.0014
Venus	68882-09-11 11:03 G	26879947.74	26879947.96	26879948.18	0.0088	0.0008
Venus	68883-04-24 23:46 G	26880173.27	26880173.49	26880173.71	0.0088	0.0003
Venus	68883-12-06 12:29 G	26880398.80	26880399.02	26880399.24	0.0088	0.0003
Venus	68884-07-19 01:12 G	26880624.33	26880624.55	26880624.77	0.0088	0.0008
Venus	68885-03-01 13:55 G	26880849.87	26880850.08	26880850.30	0.0088	0.0014
Venus	68885-10-13 02:53 G	26881075.41	26881075.62	26881075.84	0.0088	0.0019
Venus	68886-05-26 15:22 G	26881300.94	26881301.14	26881301.37	0.0088	0.0025
Venus	68887-01-07 04:19 G	26881526.48	26881526.68	26881526.89	0.0088	0.0030
Venus	68887-08-20 17:03 G	26881752.01	26881752.21	26881752.42	0.0088	0.0035
Venus	68888-04-02 05:31 G	26881977.55	26881977.73	26881977.94	0.0088	0.0041
Venus	68888-11-13 18:29 G	26882203.10	26882203.27	26882203.47	0.0088	0.0046
Venus	68889-06-27 07:27 G	26882428.64	26882428.81	26882429.00	0.0088	0.0051
Venus	68890-02-07 19:55 G	26882654.18	26882654.33	26882654.52	0.0088	0.0057
Venus	68890-09-21 08:39 G	26882879.72	26882879.86	26882880.03	0.0088	0.0062
Mercury	68890-10-08 16:19 G	26882897.17	26882897.18	26882897.22	0.0088	0.0087
Mercury	68891-01-04 18:58 G	26882985.22	26882985.29	26882985.37	0.0088	0.0078
Moon	68891-01-23 13:12 G	26883003.96	26883004.05	26883004.19	0.0088	0.0078
Earth	68891-01-23 15:22 G	26883004.03	26883004.14	26883004.31	0.0088	0.0074 *
Mercury	68891-04-02 21:22 G	26883073.30	26883073.39	26883073.50	0.0088	0.0069
Venus	68891-05-04 21:22 G	26883105.27	26883105.39	26883105.55	0.0088	0.0067
Mercury	68891-06-30 00:00 G	26883161.38	26883161.50	26883161.62	0.0088	0.0060

Mercury	68891-09-26 02:24 G	26883249.47	26883249.60	26883249.74	0.0088	0.0051
Venus	68891-12-16 10:19 G	26883330.82	26883330.93	26883331.06	0.0088	0.0072
Mercury	68891-12-23 04:34 G	26883337.56	26883337.69	26883337.85	0.0088	0.0043
Earth	68892-01-26 03:22 G	26883371.44	26883371.64	26883371.89	0.0088	0.0046
Moon	68892-01-26 04:19 G	26883371.46	26883371.68	26883371.93	0.0088	0.0042 *
Mercury	68892-03-20 07:12 G	26883425.65	26883425.80	26883425.96	0.0088	0.0034
Mercury	68892-06-16 09:36 G	26883513.75	26883513.90	26883514.07	0.0088	0.0025
Venus	68892-07-28 23:03 G	26883556.37	26883556.46	26883556.57	0.0088	0.0077
Mercury	68892-09-12 12:15 G	26883601.85	26883602.01	26883602.18	0.0088	0.0016
Mercury	68892-12-09 14:53 G	26883689.95	26883690.12	26883690.29	0.0088	0.0006
Earth	68893-01-27 15:36 G	26883738.90	26883739.15	26883739.41	0.0088	0.0017
Moon	68893-01-27 15:36 G	26883738.91	26883739.15	26883739.40	0.0088	0.0021 *
Mercury	68893-03-07 17:17 G	26883778.05	26883778.22	26883778.39	0.0088	0.0003
Venus	68893-03-11 11:46 G	26883781.92	26883781.99	26883782.07	0.0088	0.0082
Mercury	68893-06-03 19:55 G	26883866.16	26883866.33	26883866.50	0.0088	0.0012
Mercury	68893-08-30 22:19 G	26883954.27	26883954.43	26883954.60	0.0088	0.0021
Venus	68893-10-23 00:15 G	26884007.51	26884007.51	26884007.55	0.0088	0.0088
Mercury	68893-11-27 00:58 G	26884042.38	26884042.54	26884042.70	0.0088	0.0030
Moon	68894-01-30 01:55 G	26884106.32	26884106.58	26884106.85	0.0088	0.0015
Earth	68894-01-30 03:22 G	26884106.39	26884106.64	26884106.91	0.0088	0.0011 *
Mercury	68894-02-23 03:22 G	26884130.50	26884130.64	26884130.80	0.0088	0.0040
Mercury	68894-05-22 06:00 G	26884218.61	26884218.75	26884218.90	0.0088	0.0049
Mercury	68894-08-18 08:39 G	26884306.74	26884306.86	26884306.99	0.0088	0.0058
Mercury	68894-11-14 10:48 G	26884394.86	26884394.95	26884395.08	0.0088	0.0068
Earth	68895-02-01 15:22 G	26884473.91	26884474.14	26884474.37	0.0088	0.0039
Moon	68895-02-01 17:46 G	26884474.02	26884474.24	26884474.48	0.0088	0.0036 *
Mercury	68895-02-10 13:41 G	26884483.00	26884483.07	26884483.16	0.0088	0.0077
Mercury	68895-05-09 16:34 G	26884571.16	26884571.19	26884571.22	0.0088	0.0086
Moon	68896-02-03 23:31 G	26884841.36	26884841.48	26884841.66	0.0088	0.0072
Earth	68896-02-04 02:39 G	26884841.47	26884841.61	26884841.80	0.0088	0.0068 *

Mars	68923-10-28 23:03 G	26894969.29	26894969.46	26894969.69	0.0089	0.0067
Mars	68925-09-22 06:00 G	26895663.66	26895663.75	26895663.92	0.0089	0.0080
Venus	68955-07-24 21:22 G	26906561.38	26906561.39	26906561.44	0.0090	0.0089
Venus	68956-03-06 10:34 G	26906786.89	26906786.94	26906787.04	0.0090	0.0084
Venus	68956-10-18 00:00 G	26907012.41	26907012.50	26907012.62	0.0090	0.0078
Venus	68957-05-31 13:12 G	26907237.94	26907238.05	26907238.20	0.0090	0.0073
Venus	68958-01-12 02:39 G	26907463.47	26907463.61	26907463.76	0.0090	0.0067
Venus	68958-08-25 15:36 G	26907689.01	26907689.15	26907689.33	0.0090	0.0062
Venus	68959-04-08 05:03 G	26907914.55	26907914.71	26907914.89	0.0090	0.0056
Venus	68959-11-19 18:15 G	26908140.09	26908140.26	26908140.46	0.0090	0.0051
Venus	68960-07-02 07:27 G	26908365.64	26908365.81	26908366.02	0.0090	0.0045
Venus	68961-02-12 20:53 G	26908591.18	26908591.37	26908591.57	0.0090	0.0039
Venus	68961-09-26 10:05 G	26908816.73	26908816.92	26908817.13	0.0090	0.0034
Venus	68962-05-09 23:31 G	26909042.28	26909042.48	26909042.70	0.0090	0.0028
Venus	68962-12-21 12:58 G	26909267.83	26909268.04	26909268.26	0.0090	0.0022
Venus	68963-08-04 02:10 G	26909493.38	26909493.59	26909493.81	0.0090	0.0016
Venus	68964-03-16 15:36 G	26909718.94	26909719.15	26909719.37	0.0090	0.0011
Venus	68964-10-28 05:03 G	26909944.49	26909944.71	26909944.93	0.0090	0.0005
Venus	68965-06-10 18:29 G	26910170.05	26910170.27	26910170.49	0.0090	0.0001
Venus	68966-01-22 07:41 G	26910395.61	26910395.82	26910396.04	0.0090	0.0007
Venus	68966-09-04 21:07 G	26910621.16	26910621.38	26910621.60	0.0090	0.0013
Venus	68967-04-18 10:19 G	26910846.72	26910846.93	26910847.15	0.0090	0.0019
Venus	68967-11-29 23:31 G	26911072.28	26911072.48	26911072.70	0.0090	0.0025
Venus	68968-07-12 12:58 G	26911297.84	26911298.04	26911298.25	0.0090	0.0030
Venus	68969-02-23 02:10 G	26911523.40	26911523.59	26911523.80	0.0090	0.0036
Venus	68969-10-06 15:22 G	26911748.96	26911749.14	26911749.34	0.0090	0.0041
Venus	68970-05-20 05:03 G	26911974.52	26911974.71	26911974.90	0.0090	0.0047
Venus	68970-12-31 18:00 G	26912200.08	26912200.25	26912200.44	0.0090	0.0053
Venus	68971-08-14 06:58 G	26912425.65	26912425.79	26912425.98	0.0090	0.0059
Venus	68972-03-26 20:39 G	26912651.21	26912651.36	26912651.52	0.0090	0.0064

Mercury	68972-04-30 06:58 G	26912685.75	26912685.79	26912685.86	0.0090	0.0083
Moon	68972-07-23 13:27 G	26912769.96	26912770.06	26912770.22	0.0090	0.0077
Earth	68972-07-23 14:39 G	26912770.00	26912770.11	26912770.27	0.0090	0.0076 *
Mercury	68972-07-27 09:07 G	26912773.80	26912773.88	26912773.97	0.0090	0.0074
Mercury	68972-10-23 10:48 G	26912861.86	26912861.95	26912862.06	0.0090	0.0066
Venus	68972-11-07 09:36 G	26912876.78	26912876.90	26912877.06	0.0089	0.0070
Mercury	68973-01-19 12:43 G	26912949.93	26912950.03	26912950.16	0.0089	0.0057
Mercury	68973-04-17 14:39 G	26913037.99	26913038.11	26913038.24	0.0089	0.0048
Venus	68973-06-20 23:17 G	26913102.36	26913102.47	26913102.60	0.0089	0.0075
Mercury	68973-07-14 16:34 G	26913126.06	26913126.19	26913126.33	0.0089	0.0040
Earth	68973-07-26 02:39 G	26913137.39	26913137.61	26913137.83	0.0089	0.0046
Moon	68973-07-26 02:39 G	26913137.40	26913137.61	26913137.85	0.0089	0.0046 *
Mercury	68973-10-10 18:29 G	26913214.13	26913214.27	26913214.41	0.0089	0.0031
Mercury	68974-01-06 20:24 G	26913302.21	26913302.35	26913302.49	0.0089	0.0023
Venus	68974-02-01 12:15 G	26913327.94	26913328.01	26913328.13	0.0089	0.0081
Mercury	68974-04-04 22:05 G	26913390.28	26913390.42	26913390.57	0.0089	0.0015
Mercury	68974-07-02 00:00 G	26913478.36	26913478.50	26913478.65	0.0089	0.0006
Earth	68974-07-28 13:55 G	26913504.83	26913505.08	26913505.34	0.0089	0.0017
Moon	68974-07-28 14:53 G	26913504.88	26913505.12	26913505.36	0.0089	0.0017 *
Venus	68974-09-15 01:41 G	26913553.53	26913553.57	26913553.65	0.0089	0.0086
Mercury	68974-09-28 01:55 G	26913566.43	26913566.58	26913566.73	0.0089	0.0003
Mercury	68974-12-25 03:36 G	26913654.51	26913654.65	26913654.80	0.0089	0.0011
Mercury	68975-03-23 05:31 G	26913742.59	26913742.73	26913742.87	0.0089	0.0019
Mercury	68975-06-19 07:12 G	26913830.67	26913830.80	26913830.95	0.0089	0.0028
Moon	68975-07-30 22:48 G	26913872.20	26913872.45	26913872.72	0.0089	0.0014
Earth	68975-07-31 01:27 G	26913872.31	26913872.56	26913872.81	0.0089	0.0012 *
Mercury	68975-09-15 09:07 G	26913918.75	26913918.88	26913919.01	0.0089	0.0036
Mercury	68975-12-12 10:48 G	26914006.83	26914006.95	26914007.08	0.0089	0.0044
Mercury	68976-03-09 12:29 G	26914094.91	26914095.02	26914095.15	0.0089	0.0053
Mercury	68976-06-05 14:24 G	26914183.00	26914183.10	26914183.21	0.0089	0.0060

Earth	68976-08-01 12:43 G	26914239.82	26914240.03	26914240.27	0.0089	0.0042
Moon	68976-08-01 15:36 G	26914239.94	26914240.15	26914240.38	0.0089	0.0042 *
Mercury	68976-09-01 16:05 G	26914271.08	26914271.17	26914271.27	0.0089	0.0069
Mercury	68976-11-28 17:46 G	26914359.18	26914359.24	26914359.32	0.0089	0.0077
Mercury	68977-02-24 19:41 G	26914447.28	26914447.32	26914447.36	0.0089	0.0085
Moon	68977-08-03 20:39 G	26914607.22	26914607.36	26914607.54	0.0089	0.0071
Earth	68977-08-04 00:29 G	26914607.37	26914607.52	26914607.68	0.0089	0.0071 *

# 70TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 70th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	69005-09-27 04:19 G		26924887.35	26924887.68	26924888.00	0.0088	0.0003	
Jupiter	69014-12-22 20:39 G		26928261.20	26928261.36	26928261.65	0.0088	0.0080	
Venus	69037-09-10 22:34 G		26936559.43	26936559.44	26936559.48	0.0088	0.0087	
Venus	69038-04-24 11:17 G		26936784.91	26936784.97	26936785.07	0.0088	0.0082	
Venus	69038-12-06 00:15 G		26937010.42	26937010.51	26937010.63	0.0088	0.0077	
Venus	69039-07-19 12:58 G		26937235.93	26937236.04	26937236.19	0.0088	0.0072	
Venus	69040-03-01 02:10 G		26937461.45	26937461.59	26937461.74	0.0088	0.0066	
Venus	69040-10-12 14:53 G		26937686.98	26937687.12	26937687.29	0.0088	0.0061	
Venus	69041-05-26 03:36 G		26937912.50	26937912.65	26937912.84	0.0088	0.0056	
Venus	69042-01-06 16:19 G		26938138.02	26938138.18	26938138.38	0.0088	0.0051	
Venus	69042-08-20 05:31 G		26938363.54	26938363.73	26938363.92	0.0088	0.0045	



Venus	69043-04-02 18:00 G	26938589.07	26938589.25	26938589.46	0.0088	0.0040
Venus	69043-11-14 07:12 G	26938814.60	26938814.80	26938815.01	0.0088	0.0034
Venus	69044-06-26 19:55 G	26939040.13	26939040.33	26939040.54	0.0088	0.0029
Venus	69045-02-07 08:24 G	26939265.65	26939265.85	26939266.08	0.0088	0.0024
Venus	69045-09-20 21:22 G	26939491.18	26939491.39	26939491.61	0.0088	0.0018
Venus	69046-05-04 10:05 G	26939716.71	26939716.92	26939717.15	0.0088	0.0013
Venus	69046-12-15 23:03 G	26939942.24	26939942.46	26939942.68	0.0088	0.0007
Venus	69047-07-29 11:31 G	26940167.76	26940167.98	26940168.21	0.0088	0.0003
Venus	69048-03-11 00:15 G	26940393.29	26940393.51	26940393.74	0.0088	0.0004
Venus	69048-10-22 13:12 G	26940618.83	26940619.05	26940619.27	0.0088	0.0009
Venus	69049-06-05 01:55 G	26940844.36	26940844.58	26940844.80	0.0088	0.0015
Venus	69050-01-16 14:39 G	26941069.89	26941070.11	26941070.32	0.0088	0.0020
Venus	69050-08-30 03:07 G	26941295.43	26941295.63	26941295.85	0.0088	0.0026
Venus	69051-04-12 15:51 G	26941520.96	26941521.16	26941521.37	0.0088	0.0031
Venus	69051-11-24 04:34 G	26941746.50	26941746.69	26941746.91	0.0088	0.0037
Venus	69052-07-06 17:31 G	26941972.04	26941972.23	26941972.43	0.0088	0.0042
Venus	69053-02-17 06:15 G	26942197.58	26942197.76	26942197.95	0.0088	0.0047
Venus	69053-09-30 18:43 G	26942423.12	26942423.28	26942423.47	0.0088	0.0053
Venus	69054-05-14 07:41 G	26942648.67	26942648.82	26942649.00	0.0088	0.0058
Venus	69054-12-25 20:39 G	26942874.21	26942874.36	26942874.51	0.0088	0.0063
Earth	69055-01-25 01:55 G	26942904.53	26942904.58	26942904.64	0.0088	0.0085
Mercury	69055-07-07 15:36 G	26943068.10	26943068.15	26943068.23	0.0088	0.0081
Venus	69055-08-08 08:53 G	26943099.76	26943099.87	26943100.03	0.0088	0.0069
Mercury	69055-10-03 18:00 G	26943156.17	26943156.25	26943156.36	0.0088	0.0072
Mercury	69055-12-30 20:39 G	26943244.25	26943244.36	26943244.49	0.0088	0.0063
Earth	69056-01-27 13:41 G	26943271.88	26943272.07	26943272.28	0.0088	0.0057
Moon	69056-01-27 14:39 G	26943271.93	26943272.11	26943272.32	0.0088	0.0054 *
Venus	69056-03-20 21:36 G	26943325.31	26943325.40	26943325.54	0.0088	0.0074
Mercury	69056-03-27 23:03 G	26943332.34	26943332.46	26943332.60	0.0088	0.0054
Mercury	69056-06-24 01:41 G	26943420.43	26943420.57	26943420.72	0.0088	0.0045

Mercury	69056-09-20 04:05 G	26943508.52	26943508.67	26943508.83	0.0088	0.0036
Venus	69056-11-01 10:34 G	26943550.86	26943550.94	26943551.05	0.0088	0.0079
Mercury	69056-12-17 06:29 G	26943596.62	26943596.77	26943596.94	0.0088	0.0027
Moon	69057-01-28 23:31 G	26943639.24	26943639.48	26943639.74	0.0088	0.0032
Earth	69057-01-29 01:27 G	26943639.33	26943639.56	26943639.82	0.0088	0.0029 *
Mercury	69057-03-15 09:07 G	26943684.72	26943684.88	26943685.05	0.0088	0.0018
Mercury	69057-06-11 11:31 G	26943772.82	26943772.98	26943773.15	0.0088	0.0009
Venus	69057-06-14 23:17 G	26943776.43	26943776.47	26943776.55	0.0088	0.0084
Mercury	69057-09-07 14:10 G	26943860.92	26943861.09	26943861.26	0.0088	0.0001
Mercury	69057-12-04 16:34 G	26943949.02	26943949.19	26943949.36	0.0088	0.0009
Earth	69058-01-31 13:27 G	26944006.81	26944007.06	26944007.33	0.0088	0.0002
Moon	69058-01-31 16:19 G	26944006.93	26944007.18	26944007.44	0.0088	0.0002 *
Mercury	69058-03-02 19:12 G	26944037.13	26944037.30	26944037.46	0.0088	0.0018
Mercury	69058-05-29 21:22 G	26944125.24	26944125.39	26944125.57	0.0088	0.0028
Mercury	69058-08-26 00:00 G	26944213.36	26944213.50	26944213.67	0.0088	0.0037
Mercury	69058-11-22 02:39 G	26944301.47	26944301.61	26944301.76	0.0088	0.0046
Moon	69059-02-02 21:36 G	26944374.16	26944374.40	26944374.66	0.0088	0.0024
Earth	69059-02-03 01:12 G	26944374.32	26944374.55	26944374.81	0.0088	0.0028 *
Mercury	69059-02-18 05:17 G	26944389.59	26944389.72	26944389.86	0.0088	0.0055
Mercury	69059-05-17 07:41 G	26944477.72	26944477.82	26944477.95	0.0088	0.0065
Mercury	69059-08-13 10:19 G	26944565.85	26944565.93	26944566.03	0.0088	0.0074
Mercury	69059-11-09 13:12 G	26944654.00	26944654.05	26944654.10	0.0088	0.0083
Earth	69060-02-05 12:29 G	26944741.85	26944742.02	26944742.25	0.0088	0.0056
Moon	69060-02-05 16:34 G	26944742.00	26944742.19	26944742.39	0.0088	0.0058 *
Moon	69061-02-06 21:07 G	26945109.30	26945109.38	26945109.49	0.0088	0.0081
Earth	69061-02-07 00:29 G	26945109.47	26945109.52	26945109.62	0.0088	0.0084 *
Mars	69089-05-08 10:34 G	26955426.67	26955426.94	26955427.25	0.0089	0.0022
Venus	69119-10-28 09:22 G	26966555.86	26966555.89	26966555.93	0.0090	0.0088
Venus	69120-06-09 22:19 G	26966781.36	26966781.43	26966781.53	0.0090	0.0083
Venus	69121-01-21 11:17 G	26967006.89	26967006.97	26967007.10	0.0090	0.0078

Venus	69121-09-04 00:43 G	26967232.42	26967232.53	26967232.67	0.0090	0.0072
Venus	69122-04-17 13:55 G	26967457.95	26967458.08	26967458.25	0.0090	0.0067
Venus	69122-11-29 03:22 G	26967683.49	26967683.64	26967683.81	0.0090	0.0061
Venus	69123-07-12 16:48 G	26967909.03	26967909.20	26967909.37	0.0090	0.0055
Venus	69124-02-23 05:31 G	26968134.57	26968134.73	26968134.93	0.0090	0.0050
Venus	69124-10-05 18:58 G	26968360.11	26968360.29	26968360.49	0.0090	0.0044
Venus	69125-05-19 08:24 G	26968585.66	26968585.85	26968586.05	0.0090	0.0038
Venus	69125-12-30 21:22 G	26968811.20	26968811.39	26968811.61	0.0090	0.0033
Venus	69126-08-13 10:48 G	26969036.75	26969036.95	26969037.16	0.0090	0.0027
Venus	69127-03-27 00:15 G	26969262.30	26969262.51	26969262.72	0.0090	0.0021
Venus	69127-11-07 13:27 G	26969487.85	26969488.06	26969488.28	0.0090	0.0015
Venus	69128-06-20 02:39 G	26969713.40	26969713.61	26969713.84	0.0090	0.0010
Venus	69129-01-31 16:05 G	26969938.95	26969939.17	26969939.39	0.0090	0.0004
Venus	69129-09-14 05:31 G	26970164.51	26970164.73	26970164.95	0.0090	0.0003
Venus	69130-04-27 18:58 G	26970390.07	26970390.29	26970390.51	0.0090	0.0008
Venus	69130-12-09 08:10 G	26970615.63	26970615.84	26970616.06	0.0090	0.0014
Venus	69131-07-22 21:22 G	26970841.18	26970841.39	26970841.61	0.0090	0.0020
Venus	69132-03-04 10:34 G	26971066.74	26971066.94	26971067.16	0.0090	0.0026
Venus	69132-10-16 00:15 G	26971292.30	26971292.51	26971292.71	0.0090	0.0031
Venus	69133-05-29 13:27 G	26971517.87	26971518.06	26971518.27	0.0090	0.0037
Venus	69134-01-10 02:39 G	26971743.43	26971743.61	26971743.81	0.0090	0.0043
Venus	69134-08-23 15:36 G	26971968.99	26971969.15	26971969.36	0.0090	0.0049
Venus	69135-04-06 05:17 G	26972194.55	26972194.72	26972194.90	0.0090	0.0054
Venus	69135-11-17 18:29 G	26972420.12	26972420.27	26972420.45	0.0090	0.0060
Venus	69136-06-30 07:41 G	26972645.69	26972645.82	26972645.99	0.0090	0.0065
Moon	69136-07-25 00:58 G	26972670.47	26972670.54	26972670.67	0.0090	0.0083
Earth	69136-07-25 01:27 G	26972670.54	26972670.56	26972670.65	0.0090	0.0088 *
Mercury	69136-10-31 04:34 G	26972768.67	26972768.69	26972768.75	0.0090	0.0086
Mercury	69137-01-27 06:43 G	26972856.71	26972856.78	26972856.87	0.0090	0.0077
Venus	69137-02-10 21:07 G	26972871.26	26972871.38	26972871.52	0.0090	0.0071

Mercury	69137-04-25 08:53 G	26972944.77	26972944.87	26972944.97	0.0089	0.0068
Mercury	69137-07-22 10:34 G	26973032.84	26973032.94	26973033.06	0.0089	0.0059
Earth	69137-07-27 12:58 G	26973037.87	26973038.04	26973038.26	0.0089	0.0059
Moon	69137-07-27 14:39 G	26973037.95	26973038.11	26973038.30	0.0089	0.0063 *
Venus	69137-09-24 10:05 G	26973096.83	26973096.92	26973097.06	0.0089	0.0077
Mercury	69137-10-18 12:29 G	26973120.91	26973121.02	26973121.15	0.0089	0.0051
Mercury	69138-01-14 14:24 G	26973208.97	26973209.10	26973209.24	0.0089	0.0042
Mercury	69138-04-12 16:19 G	26973297.05	26973297.18	26973297.32	0.0089	0.0034
Venus	69138-05-07 23:46 G	26973322.41	26973322.49	26973322.59	0.0089	0.0082
Mercury	69138-07-09 18:15 G	26973385.12	26973385.26	26973385.40	0.0089	0.0025
Moon	69138-07-29 22:19 G	26973405.19	26973405.43	26973405.69	0.0089	0.0024
Earth	69138-07-30 00:29 G	26973405.30	26973405.52	26973405.78	0.0089	0.0030 *
Mercury	69138-10-05 20:10 G	26973473.19	26973473.34	26973473.48	0.0089	0.0017
Venus	69138-12-19 13:27 G	26973548.01	26973548.06	26973548.11	0.0089	0.0087
Mercury	69139-01-01 21:51 G	26973561.27	26973561.41	26973561.56	0.0089	0.0009
Mercury	69139-03-30 23:46 G	26973649.34	26973649.49	26973649.64	0.0089	0.0001
Mercury	69139-06-27 01:41 G	26973737.42	26973737.57	26973737.71	0.0089	0.0009
Earth	69139-08-01 12:15 G	26973772.76	26973773.01	26973773.27	0.0089	0.0001
Moon	69139-08-01 15:36 G	26973772.90	26973773.15	26973773.41	0.0089	0.0005 *
Mercury	69139-09-23 03:22 G	26973825.50	26973825.64	26973825.79	0.0089	0.0017
Mercury	69139-12-20 05:03 G	26973913.58	26973913.71	26973913.86	0.0089	0.0026
Mercury	69140-03-17 06:58 G	26974001.66	26974001.79	26974001.93	0.0089	0.0033
Mercury	69140-06-13 08:39 G	26974089.74	26974089.86	26974090.00	0.0089	0.0042
Moon	69140-08-02 20:24 G	26974140.12	26974140.35	26974140.59	0.0089	0.0034
Earth	69140-08-02 23:31 G	26974140.25	26974140.48	26974140.74	0.0089	0.0030 *
Mercury	69140-09-09 10:34 G	26974177.82	26974177.94	26974178.06	0.0089	0.0050
Mercury	69140-12-06 12:00 G	26974265.91	26974266.00	26974266.13	0.0089	0.0059
Mercury	69141-03-04 13:55 G	26974353.99	26974354.08	26974354.19	0.0089	0.0066
Mercury	69141-05-31 15:36 G	26974442.09	26974442.15	26974442.24	0.0089	0.0075
Earth	69141-08-05 10:48 G	26974507.77	26974507.95	26974508.16	0.0089	0.0059

Moon	69141-08-05 14:24 G	26974507.91	26974508.10	26974508.32	0.0089	0.0054 *
Mercury	69141-08-27 17:31 G	26974530.18	26974530.23	26974530.29	0.0089	0.0082
Earth	69142-08-07 22:19 G	26974875.40	26974875.43	26974875.51	0.0089	0.0087
Mars	69169-05-12 07:55 G	26984649.64	26984649.83	26984650.08	0.0088	0.0066
Venus	69201-12-14 09:51 G	26996553.90	26996553.91	26996553.97	0.0088	0.0087
Venus	69202-07-27 22:34 G	26996779.39	26996779.44	26996779.55	0.0088	0.0082
Venus	69203-03-10 11:46 G	26997004.89	26997004.99	26997005.11	0.0088	0.0076
Venus	69203-10-22 00:43 G	26997230.41	26997230.53	26997230.67	0.0088	0.0071
Venus	69204-06-03 13:27 G	26997455.93	26997456.06	26997456.22	0.0088	0.0066
Venus	69205-01-15 02:10 G	26997681.45	26997681.59	26997681.77	0.0088	0.0061
Venus	69205-08-28 15:07 G	26997906.97	26997907.13	26997907.31	0.0088	0.0055
Venus	69206-04-11 03:51 G	26998132.50	26998132.66	26998132.86	0.0088	0.0050
Venus	69206-11-22 16:34 G	26998358.02	26998358.19	26998358.41	0.0088	0.0045
Venus	69207-07-06 05:46 G	26998583.55	26998583.74	26998583.95	0.0088	0.0039
Venus	69208-02-16 18:29 G	26998809.08	26998809.27	26998809.49	0.0088	0.0034
Venus	69208-09-29 07:27 G	26999034.61	26999034.81	26999035.03	0.0088	0.0028
Venus	69209-05-12 20:10 G	26999260.14	26999260.34	26999260.57	0.0088	0.0023
Venus	69209-12-24 09:07 G	26999485.67	26999485.88	26999486.10	0.0088	0.0017
Venus	69210-08-06 21:51 G	26999711.19	26999711.41	26999711.63	0.0088	0.0012
Venus	69211-03-20 10:48 G	26999936.73	26999936.95	26999937.17	0.0088	0.0006
Venus	69211-10-31 23:31 G	27000162.26	27000162.48	27000162.71	0.0088	0.0002
Venus	69212-06-13 12:15 G	27000387.79	27000388.01	27000388.24	0.0088	0.0005
Venus	69213-01-25 00:58 G	27000613.32	27000613.54	27000613.76	0.0088	0.0011
Venus	69213-09-07 13:41 G	27000838.85	27000839.07	27000839.29	0.0088	0.0016
Venus	69214-04-21 02:10 G	27001064.39	27001064.59	27001064.82	0.0088	0.0022
Venus	69214-12-02 15:07 G	27001289.92	27001290.13	27001290.35	0.0088	0.0027
Venus	69215-07-16 03:36 G	27001515.46	27001515.65	27001515.87	0.0088	0.0033
Venus	69216-02-26 16:19 G	27001741.00	27001741.18	27001741.39	0.0088	0.0038
Venus	69216-10-09 05:31 G	27001966.54	27001966.73	27001966.92	0.0088	0.0043
Venus	69217-05-22 17:46 G	27002192.08	27002192.24	27002192.44	0.0088	0.0049

Venus	69218-01-03 06:43 G	27002417.62	27002417.78	27002417.96	0.0088	0.0054
Venus	69218-08-16 19:12 G	27002643.16	27002643.30	27002643.48	0.0088	0.0060
Venus	69219-03-30 07:55 G	27002868.70	27002868.83	27002869.00	0.0088	0.0065
Venus	69219-11-10 21:07 G	27003094.26	27003094.38	27003094.52	0.0088	0.0070
Mercury	69220-01-06 12:43 G	27003150.99	27003151.03	27003151.10	0.0088	0.0083
Moon	69220-01-27 20:53 G	27003172.23	27003172.37	27003172.55	0.0088	0.0071
Earth	69220-01-27 23:31 G	27003172.34	27003172.48	27003172.66	0.0088	0.0069 *
Mercury	69220-04-03 15:07 G	27003239.06	27003239.13	27003239.23	0.0088	0.0074
Venus	69220-06-23 10:05 G	27003319.81	27003319.92	27003320.03	0.0088	0.0075
Mercury	69220-06-30 17:46 G	27003327.13	27003327.24	27003327.35	0.0088	0.0065
Mercury	69220-09-26 19:55 G	27003415.22	27003415.33	27003415.47	0.0088	0.0057
Mercury	69220-12-23 22:19 G	27003503.31	27003503.43	27003503.59	0.0088	0.0048
Earth	69221-01-29 11:31 G	27003539.77	27003539.98	27003540.23	0.0088	0.0041
Moon	69221-01-29 14:53 G	27003539.90	27003540.12	27003540.36	0.0088	0.0038 *
Venus	69221-02-03 22:19 G	27003545.37	27003545.43	27003545.54	0.0088	0.0081
Mercury	69221-03-22 00:58 G	27003591.40	27003591.54	27003591.70	0.0088	0.0039
Mercury	69221-06-18 03:22 G	27003679.49	27003679.64	27003679.81	0.0088	0.0030
Mercury	69221-09-14 06:00 G	27003767.59	27003767.75	27003767.92	0.0088	0.0021
Venus	69221-09-17 11:03 G	27003770.94	27003770.96	27003771.03	0.0088	0.0086
Mercury	69221-12-11 08:24 G	27003855.69	27003855.85	27003856.02	0.0088	0.0012
Moon	69222-01-31 20:24 G	27003907.10	27003907.35	27003907.62	0.0088	0.0016
Earth	69222-02-01 00:00 G	27003907.25	27003907.50	27003907.77	0.0088	0.0013 *
Mercury	69222-03-09 11:03 G	27003943.79	27003943.96	27003944.13	0.0088	0.0003
Mercury	69222-06-05 13:27 G	27004031.89	27004032.06	27004032.23	0.0088	0.0007
Mercury	69222-09-01 15:51 G	27004120.00	27004120.16	27004120.33	0.0088	0.0016
Mercury	69222-11-28 18:29 G	27004208.11	27004208.27	27004208.44	0.0088	0.0025
Earth	69223-02-03 11:46 G	27004274.74	27004274.99	27004275.25	0.0088	0.0016
Moon	69223-02-03 15:22 G	27004274.89	27004275.14	27004275.41	0.0088	0.0019 *
Mercury	69223-02-24 20:53 G	27004296.22	27004296.37	27004296.54	0.0088	0.0034
Mercury	69223-05-23 23:31 G	27004384.34	27004384.48	27004384.63	0.0088	0.0043

Mercury	69223-08-20 01:55 G	27004472.45	27004472.58	27004472.73	0.0088	0.0053
Mercury	69223-11-16 04:34 G	27004560.58	27004560.69	27004560.82	0.0088	0.0062
Moon	69224-02-05 20:39 G	27004642.15	27004642.36	27004642.60	0.0088	0.0041
Earth	69224-02-05 23:31 G	27004642.27	27004642.48	27004642.72	0.0088	0.0044 *
Mercury	69224-02-12 07:12 G	27004648.71	27004648.80	27004648.90	0.0088	0.0071
Mercury	69224-05-10 09:36 G	27004736.85	27004736.90	27004736.98	0.0088	0.0081
Earth	69225-02-07 11:03 G	27005009.84	27005009.96	27005010.13	0.0088	0.0072
Moon	69225-02-07 13:41 G	27005009.96	27005010.07	27005010.23	0.0088	0.0076 *
Mars	69252-12-22 17:46 G	27015189.98	27015190.24	27015190.53	0.0089	0.0036
Jupiter	69258-03-30 17:03 G	27017114.09	27017114.21	27017114.40	0.0089	0.0086
Venus	69284-01-29 20:24 G	27026550.32	27026550.35	27026550.40	0.0090	0.0088
Venus	69284-09-11 09:22 G	27026775.83	27026775.89	27026776.00	0.0090	0.0083
Venus	69285-04-24 23:03 G	27027001.36	27027001.46	27027001.58	0.0090	0.0077
Venus	69285-12-06 12:00 G	27027226.89	27027227.00	27027227.16	0.0090	0.0072
Venus	69286-07-20 01:27 G	27027452.43	27027452.56	27027452.72	0.0090	0.0066
Venus	69287-03-02 14:39 G	27027677.97	27027678.11	27027678.29	0.0090	0.0061
Venus	69287-10-14 03:51 G	27027903.51	27027903.66	27027903.85	0.0090	0.0055
Venus	69288-05-26 17:17 G	27028129.05	27028129.22	27028129.42	0.0090	0.0049
Venus	69289-01-07 06:43 G	27028354.59	27028354.78	27028354.97	0.0090	0.0043
Venus	69289-08-20 19:41 G	27028580.13	27028580.32	27028580.53	0.0090	0.0038
Venus	69290-04-03 09:07 G	27028805.68	27028805.88	27028806.09	0.0090	0.0032
Venus	69290-11-14 22:34 G	27029031.23	27029031.44	27029031.65	0.0090	0.0026
Venus	69291-06-28 11:46 G	27029256.78	27029256.99	27029257.20	0.0090	0.0020
Venus	69292-02-09 00:43 G	27029482.32	27029482.53	27029482.76	0.0090	0.0015
Venus	69292-09-21 14:10 G	27029707.87	27029708.09	27029708.31	0.0090	0.0009
Venus	69293-05-05 03:36 G	27029933.43	27029933.65	27029933.87	0.0090	0.0003
Venus	69293-12-16 16:48 G	27030158.98	27030159.20	27030159.42	0.0090	0.0003
Venus	69294-07-30 06:00 G	27030384.54	27030384.75	27030384.97	0.0090	0.0009
Venus	69295-03-12 19:27 G	27030610.09	27030610.31	27030610.53	0.0090	0.0015
Venus	69295-10-24 08:39 G	27030835.65	27030835.86	27030836.08	0.0090	0.0021

Venus	69296-06-05 22:05 G	27031061.22	27031061.42	27031061.64	0.0090	0.0027
Venus	69297-01-17 11:17 G	27031286.78	27031286.97	27031287.18	0.0090	0.0033
Venus	69297-08-31 00:29 G	27031512.34	27031512.52	27031512.73	0.0090	0.0039
Venus	69298-04-13 14:10 G	27031737.90	27031738.09	27031738.28	0.0090	0.0044
Venus	69298-11-25 03:22 G	27031963.47	27031963.64	27031963.83	0.0090	0.0050
Venus	69299-07-08 16:34 G	27032189.03	27032189.19	27032189.37	0.0090	0.0056
Venus	69300-02-19 06:00 G	27032414.60	27032414.75	27032414.91	0.0090	0.0061
Venus	69300-10-02 18:58 G	27032640.16	27032640.29	27032640.45	0.0090	0.0067
Mercury	69301-05-02 02:39 G	27032851.59	27032851.61	27032851.65	0.0090	0.0088
Venus	69301-05-16 08:10 G	27032865.74	27032865.84	27032866.00	0.0090	0.0073
Moon	69301-07-27 21:07 G	27032938.26	27032938.38	27032938.56	0.0090	0.0073
Earth	69301-07-28 00:00 G	27032938.38	27032938.50	27032938.69	0.0090	0.0071 *
Mercury	69301-07-29 04:48 G	27032939.63	27032939.70	27032939.77	0.0090	0.0079
Mercury	69301-10-25 06:29 G	27033027.69	27033027.77	27033027.87	0.0090	0.0071
Venus	69301-12-27 21:51 G	27033091.31	27033091.41	27033091.53	0.0090	0.0078
Mercury	69302-01-21 08:24 G	27033115.75	27033115.85	27033115.96	0.0090	0.0062
Mercury	69302-04-19 10:19 G	27033203.82	27033203.93	27033204.06	0.0090	0.0053
Mercury	69302-07-16 12:15 G	27033291.89	27033292.01	27033292.14	0.0089	0.0045
Earth	69302-07-30 11:31 G	27033305.78	27033305.98	27033306.23	0.0089	0.0042
Moon	69302-07-30 14:53 G	27033305.91	27033306.12	27033306.36	0.0089	0.0041 *
Venus	69302-08-10 10:48 G	27033316.89	27033316.95	27033317.05	0.0089	0.0084
Mercury	69302-10-12 14:10 G	27033379.96	27033380.09	27033380.23	0.0089	0.0036
Mercury	69303-01-08 16:05 G	27033468.03	27033468.17	27033468.31	0.0089	0.0028
Venus	69303-03-24 00:15 G	27033542.50	27033542.51	27033542.55	0.0089	0.0089
Mercury	69303-04-06 17:46 G	27033556.10	27033556.24	27033556.39	0.0089	0.0020
Mercury	69303-07-03 19:41 G	27033644.18	27033644.32	27033644.47	0.0089	0.0011
Moon	69303-08-01 19:27 G	27033673.07	27033673.31	27033673.57	0.0089	0.0015
Earth	69303-08-01 23:17 G	27033673.22	27033673.47	27033673.73	0.0089	0.0013 *
Mercury	69303-09-29 21:36 G	27033732.26	27033732.40	27033732.55	0.0089	0.0003
Mercury	69303-12-26 23:31 G	27033820.33	27033820.48	27033820.63	0.0089	0.0006



Mercury	69304-03-24 01:12 G	27033908.41	27033908.55	27033908.70	0.0089	0.0015
Mercury	69304-06-20 03:07 G	27033996.49	27033996.63	27033996.77	0.0089	0.0023
Earth	69304-08-03 10:34 G	27034040.69	27034040.94	27034041.19	0.0089	0.0017
Moon	69304-08-03 13:41 G	27034040.82	27034041.07	27034041.33	0.0089	0.0018 *
Mercury	69304-09-16 05:03 G	27034084.57	27034084.71	27034084.84	0.0089	0.0031
Mercury	69304-12-13 06:29 G	27034172.65	27034172.77	27034172.91	0.0089	0.0040
Mercury	69305-03-11 08:24 G	27034260.73	27034260.85	27034260.98	0.0089	0.0047
Mercury	69305-06-07 10:05 G	27034348.82	27034348.92	27034349.04	0.0089	0.0056
Moon	69305-08-05 18:58 G	27034408.09	27034408.29	27034408.52	0.0089	0.0045
Earth	69305-08-05 21:51 G	27034408.20	27034408.41	27034408.64	0.0089	0.0046 *
Mercury	69305-09-03 12:00 G	27034436.90	27034437.00	27034437.11	0.0089	0.0064
Mercury	69305-11-30 13:41 G	27034524.99	27034525.07	27034525.16	0.0089	0.0072
Mercury	69306-02-26 15:36 G	27034613.09	27034613.15	27034613.21	0.0089	0.0080
Mercury	69306-05-25 17:03 G	27034701.20	27034701.21	27034701.25	0.0089	0.0088
Earth	69306-08-08 09:07 G	27034775.75	27034775.88	27034776.03	0.0089	0.0075
Moon	69306-08-08 10:34 G	27034775.82	27034775.94	27034776.09	0.0089	0.0076 *
Mars	69334-11-21 00:43 G	27045107.24	27045107.53	27045107.86	0.0088	0.0030
Venus	69366-03-18 21:51 G	27056548.39	27056548.41	27056548.47	0.0088	0.0086
Venus	69366-10-30 10:48 G	27056773.88	27056773.95	27056774.05	0.0088	0.0081
Venus	69367-06-12 23:31 G	27056999.39	27056999.48	27056999.61	0.0088	0.0076
Venus	69368-01-24 12:00 G	27057224.90	27057225.00	27057225.16	0.0088	0.0071
Venus	69368-09-06 01:12 G	27057450.42	27057450.55	27057450.71	0.0088	0.0065
Venus	69369-04-19 13:55 G	27057675.93	27057676.08	27057676.26	0.0088	0.0060
Venus	69369-12-01 03:07 G	27057901.46	27057901.63	27057901.80	0.0088	0.0054
Venus	69370-07-14 15:36 G	27058126.98	27058127.15	27058127.35	0.0088	0.0049
Venus	69371-02-25 04:19 G	27058352.50	27058352.68	27058352.89	0.0088	0.0044
Venus	69371-10-08 17:31 G	27058578.04	27058578.23	27058578.43	0.0088	0.0038
Venus	69372-05-21 06:15 G	27058803.56	27058803.76	27058803.97	0.0088	0.0033
Venus	69373-01-01 19:12 G	27059029.09	27059029.30	27059029.51	0.0088	0.0027
Venus	69373-08-15 07:41 G	27059254.62	27059254.82	27059255.05	0.0088	0.0022

Venus	69374-03-28 20:39 G	27059480.15	27059480.36	27059480.58	0.0088	0.0016
Venus	69374-11-09 09:36 G	27059705.68	27059705.90	27059706.12	0.0088	0.0011
Venus	69375-06-22 22:34 G	27059931.22	27059931.44	27059931.66	0.0088	0.0005
Venus	69376-02-03 11:17 G	27060156.75	27060156.97	27060157.19	0.0088	0.0001
Venus	69376-09-15 23:46 G	27060382.28	27060382.49	27060382.72	0.0088	0.0007
Venus	69377-04-29 12:43 G	27060607.81	27060608.03	27060608.25	0.0088	0.0012
Venus	69377-12-11 01:12 G	27060833.34	27060833.55	27060833.78	0.0088	0.0018
Venus	69378-07-24 13:55 G	27061058.88	27061059.08	27061059.30	0.0088	0.0023
Venus	69379-03-07 02:53 G	27061284.41	27061284.62	27061284.83	0.0088	0.0028
Venus	69379-10-18 15:22 G	27061509.95	27061510.14	27061510.36	0.0088	0.0034
Venus	69380-05-31 04:19 G	27061735.49	27061735.68	27061735.88	0.0088	0.0039
Venus	69381-01-11 16:48 G	27061961.02	27061961.20	27061961.40	0.0088	0.0045
Venus	69381-08-25 05:31 G	27062186.56	27062186.73	27062186.92	0.0088	0.0050
Venus	69382-04-07 18:00 G	27062412.10	27062412.25	27062412.44	0.0088	0.0056
Venus	69382-11-19 06:58 G	27062637.65	27062637.79	27062637.96	0.0088	0.0061
Venus	69383-07-02 19:55 G	27062863.19	27062863.33	27062863.48	0.0088	0.0066
Earth	69384-01-28 08:53 G	27063072.80	27063072.87	27063073.01	0.0088	0.0081
Moon	69384-01-28 12:43 G	27063072.99	27063073.03	27063073.12	0.0088	0.0085 *
Venus	69384-02-13 08:10 G	27063088.74	27063088.84	27063088.99	0.0088	0.0072
Mercury	69384-07-07 09:22 G	27063233.88	27063233.89	27063233.95	0.0088	0.0086
Venus	69384-09-25 21:07 G	27063314.29	27063314.38	27063314.50	0.0088	0.0077
Mercury	69384-10-03 12:00 G	27063321.93	27063322.00	27063322.09	0.0088	0.0077
Mercury	69384-12-30 14:24 G	27063410.01	27063410.10	27063410.22	0.0088	0.0068
Moon	69385-01-29 18:15 G	27063440.05	27063440.26	27063440.48	0.0088	0.0048
Earth	69385-01-29 21:22 G	27063440.20	27063440.39	27063440.62	0.0088	0.0053 *
Mercury	69385-03-28 17:03 G	27063498.09	27063498.21	27063498.33	0.0088	0.0059
Venus	69385-05-09 09:51 G	27063539.85	27063539.91	27063540.01	0.0088	0.0082
Mercury	69385-06-24 19:27 G	27063586.18	27063586.31	27063586.45	0.0088	0.0050
Mercury	69385-09-20 21:36 G	27063674.27	27063674.40	27063674.56	0.0088	0.0042
Mercury	69385-12-18 00:15 G	27063762.36	27063762.51	27063762.67	0.0088	0.0033

Venus	69385-12-20 22:48 G	27063765.44	27063765.45	27063765.49	0.0088	0.0087
Earth	69386-02-01 09:36 G	27063807.66	27063807.90	27063808.16	0.0088	0.0024
Moon	69386-02-01 12:58 G	27063807.81	27063808.04	27063808.31	0.0088	0.0028 *
Mercury	69386-03-16 02:39 G	27063850.46	27063850.61	27063850.78	0.0088	0.0024
Mercury	69386-06-12 05:03 G	27063938.55	27063938.71	27063938.89	0.0088	0.0015
Mercury	69386-09-08 07:41 G	27064026.65	27064026.82	27064026.99	0.0088	0.0006
Mercury	69386-12-05 10:19 G	27064114.76	27064114.93	27064115.10	0.0088	0.0004
Moon	69387-02-03 18:58 G	27064175.04	27064175.29	27064175.55	0.0088	0.0008
Earth	69387-02-03 21:51 G	27064175.15	27064175.41	27064175.67	0.0088	0.0004 *
Mercury	69387-03-03 12:43 G	27064202.86	27064203.03	27064203.20	0.0088	0.0013
Mercury	69387-05-30 15:07 G	27064290.97	27064291.13	27064291.30	0.0088	0.0022
Mercury	69387-08-26 17:46 G	27064379.08	27064379.24	27064379.40	0.0088	0.0031
Mercury	69387-11-22 20:24 G	27064467.20	27064467.35	27064467.50	0.0088	0.0040
Earth	69388-02-06 09:36 G	27064542.66	27064542.90	27064543.15	0.0088	0.0032
Moon	69388-02-06 11:03 G	27064542.72	27064542.96	27064543.23	0.0088	0.0029 *
Mercury	69388-02-18 22:34 G	27064555.31	27064555.44	27064555.59	0.0088	0.0050
Mercury	69388-05-17 01:12 G	27064643.43	27064643.55	27064643.69	0.0088	0.0059
Mercury	69388-08-13 03:51 G	27064731.56	27064731.66	27064731.77	0.0088	0.0068
Mercury	69388-11-09 06:15 G	27064819.70	27064819.76	27064819.85	0.0088	0.0078
Mercury	69389-02-05 08:53 G	27064907.86	27064907.87	27064907.91	0.0088	0.0087
Moon	69389-02-07 20:10 G	27064910.19	27064910.34	27064910.54	0.0088	0.0064
Earth	69389-02-07 21:36 G	27064910.22	27064910.40	27064910.60	0.0088	0.0060 *
Moon	69390-02-10 08:39 G	27065277.80	27065277.86	27065277.95	0.0088	0.0084
Mars	69418-07-04 04:19 G	27075647.46	27075647.68	27075647.95	0.0089	0.0052
Jupiter	69424-06-03 17:17 G	27077808.81	27077809.22	27077809.69	0.0089	0.0054
Venus	69448-05-04 07:27 G	27086544.79	27086544.81	27086544.88	0.0090	0.0088
Venus	69448-12-15 21:07 G	27086770.30	27086770.38	27086770.47	0.0090	0.0082
Venus	69449-07-29 09:51 G	27086995.82	27086995.91	27086996.04	0.0090	0.0077
Venus	69450-03-11 23:31 G	27087221.36	27087221.48	27087221.62	0.0090	0.0071
Venus	69450-10-23 12:29 G	27087446.89	27087447.02	27087447.19	0.0090	0.0066

Venus	69451-06-06 01:55 G	27087672.43	27087672.58	27087672.76	0.0090	0.0060
Venus	69452-01-17 15:22 G	27087897.97	27087898.14	27087898.32	0.0090	0.0054
Venus	69452-08-30 04:19 G	27088123.51	27088123.68	27088123.88	0.0090	0.0049
Venus	69453-04-12 17:46 G	27088349.06	27088349.24	27088349.45	0.0090	0.0043
Venus	69453-11-24 07:12 G	27088574.61	27088574.80	27088575.01	0.0090	0.0037
Venus	69454-07-07 20:24 G	27088800.15	27088800.35	27088800.56	0.0090	0.0031
Venus	69455-02-18 09:22 G	27089025.69	27089025.89	27089026.12	0.0090	0.0026
Venus	69455-10-01 22:48 G	27089251.24	27089251.45	27089251.67	0.0090	0.0019
Venus	69456-05-14 12:15 G	27089476.80	27089477.01	27089477.23	0.0090	0.0013
Venus	69456-12-26 01:27 G	27089702.34	27089702.56	27089702.78	0.0090	0.0008
Venus	69457-08-08 14:39 G	27089927.89	27089928.11	27089928.33	0.0090	0.0002
Venus	69458-03-22 03:51 G	27090153.45	27090153.66	27090153.89	0.0090	0.0005
Venus	69458-11-02 17:17 G	27090379.00	27090379.22	27090379.44	0.0090	0.0010
Venus	69459-06-16 06:29 G	27090604.56	27090604.77	27090604.99	0.0090	0.0016
Venus	69460-01-27 19:41 G	27090830.12	27090830.32	27090830.54	0.0090	0.0022
Venus	69460-09-09 08:53 G	27091055.67	27091055.87	27091056.09	0.0090	0.0028
Venus	69461-04-22 22:19 G	27091281.24	27091281.43	27091281.65	0.0090	0.0034
Venus	69461-12-04 11:31 G	27091506.80	27091506.98	27091507.20	0.0090	0.0040
Venus	69462-07-18 01:12 G	27091732.36	27091732.55	27091732.74	0.0090	0.0045
Venus	69463-02-28 14:24 G	27091957.93	27091958.10	27091958.29	0.0090	0.0051
Venus	69463-10-12 03:36 G	27092183.49	27092183.65	27092183.83	0.0090	0.0057
Venus	69464-05-24 16:48 G	27092409.07	27092409.20	27092409.38	0.0090	0.0063
Venus	69465-01-05 06:29 G	27092634.64	27092634.77	27092634.92	0.0090	0.0068
Earth	69465-07-28 11:03 G	27092838.89	27092838.96	27092839.09	0.0089	0.0083
Moon	69465-07-28 14:39 G	27092839.02	27092839.11	27092839.26	0.0089	0.0079 *
Venus	69465-08-18 19:27 G	27092860.21	27092860.31	27092860.46	0.0089	0.0074
Mercury	69466-01-28 02:24 G	27093022.55	27093022.60	27093022.66	0.0089	0.0082
Venus	69466-04-01 08:39 G	27093085.79	27093085.86	27093085.99	0.0089	0.0080
Mercury	69466-04-26 04:34 G	27093110.60	27093110.69	27093110.77	0.0089	0.0073
Mercury	69466-07-23 06:00 G	27093198.66	27093198.75	27093198.87	0.0089	0.0065

Moon	69466-07-30 19:27 G	27093206.13	27093206.31	27093206.52	0.0089	0.0058
Earth	69466-07-30 22:48 G	27093206.26	27093206.45	27093206.67	0.0089	0.0054 *
Mercury	69466-10-19 08:10 G	27093286.73	27093286.84	27093286.96	0.0089	0.0056
Venus	69466-11-12 22:19 G	27093311.38	27093311.43	27093311.51	0.0089	0.0085
Mercury	69467-01-15 09:51 G	27093374.80	27093374.91	27093375.05	0.0089	0.0048
Mercury	69467-04-13 12:00 G	27093462.87	27093463.00	27093463.14	0.0089	0.0039
Mercury	69467-07-10 13:41 G	27093550.94	27093551.07	27093551.22	0.0089	0.0031
Earth	69467-08-02 10:05 G	27093573.69	27093573.92	27093574.18	0.0089	0.0025
Moon	69467-08-02 13:27 G	27093573.82	27093574.06	27093574.32	0.0089	0.0020 *
Mercury	69467-10-06 15:51 G	27093639.02	27093639.16	27093639.30	0.0089	0.0022
Mercury	69468-01-02 17:46 G	27093727.09	27093727.24	27093727.39	0.0089	0.0013
Mercury	69468-03-30 19:27 G	27093815.17	27093815.31	27093815.46	0.0089	0.0006
Mercury	69468-06-26 21:22 G	27093903.24	27093903.39	27093903.54	0.0089	0.0004
Moon	69468-08-03 19:55 G	27093941.08	27093941.33	27093941.58	0.0089	0.0001
Earth	69468-08-03 21:51 G	27093941.16	27093941.41	27093941.67	0.0089	0.0005 *
Mercury	69468-09-22 23:17 G	27093991.32	27093991.47	27093991.62	0.0089	0.0012
Mercury	69468-12-20 00:58 G	27094079.40	27094079.54	27094079.69	0.0089	0.0020
Mercury	69469-03-18 02:53 G	27094167.48	27094167.62	27094167.76	0.0089	0.0029
Mercury	69469-06-14 04:48 G	27094255.56	27094255.70	27094255.83	0.0089	0.0037
Earth	69469-08-06 08:53 G	27094308.64	27094308.87	27094309.11	0.0089	0.0034
Moon	69469-08-06 10:19 G	27094308.70	27094308.93	27094309.17	0.0089	0.0038 *
Mercury	69469-09-10 06:15 G	27094343.65	27094343.76	27094343.90	0.0089	0.0046
Mercury	69469-12-07 08:10 G	27094431.73	27094431.84	27094431.96	0.0089	0.0053
Mercury	69470-03-05 09:51 G	27094519.82	27094519.91	27094520.03	0.0089	0.0062
Mercury	69470-06-01 11:46 G	27094607.90	27094607.99	27094608.08	0.0089	0.0070
Earth	69470-08-08 19:55 G	27094676.17	27094676.33	27094676.53	0.0089	0.0063
Moon	69470-08-08 19:55 G	27094676.17	27094676.33	27094676.55	0.0089	0.0059 *
Mercury	69470-08-28 13:27 G	27094696.00	27094696.06	27094696.14	0.0089	0.0078
Mercury	69470-11-24 15:07 G	27094784.10	27094784.13	27094784.18	0.0089	0.0086
Mars	69498-07-06 05:03 G	27104869.41	27104869.71	27104870.02	0.0088	0.0033

Venus	69530-06-22 09:22 G	27116542.86	27116542.89	27116542.95	0.0088	0.0086
Venus	69531-02-02 22:05 G	27116768.35	27116768.42	27116768.53	0.0088	0.0081
Venus	69531-09-16 11:17 G	27116993.86	27116993.97	27116994.09	0.0088	0.0075
Venus	69532-04-29 00:00 G	27117219.38	27117219.50	27117219.64	0.0088	0.0070
Venus	69532-12-10 12:29 G	27117444.89	27117445.02	27117445.19	0.0088	0.0065
Venus	69533-07-24 01:41 G	27117670.41	27117670.57	27117670.74	0.0088	0.0059
Venus	69534-03-06 14:10 G	27117895.93	27117896.09	27117896.28	0.0088	0.0054
Venus	69534-10-18 03:07 G	27118121.46	27118121.63	27118121.83	0.0088	0.0049
Venus	69535-05-31 16:05 G	27118346.99	27118347.17	27118347.37	0.0088	0.0043
Venus	69536-01-12 04:34 G	27118572.51	27118572.69	27118572.91	0.0088	0.0038
Venus	69536-08-24 17:31 G	27118798.04	27118798.23	27118798.45	0.0088	0.0032
Venus	69537-04-07 06:15 G	27119023.57	27119023.76	27119023.99	0.0088	0.0027
Venus	69537-11-18 19:27 G	27119249.10	27119249.31	27119249.53	0.0088	0.0021
Venus	69538-07-02 08:24 G	27119474.63	27119474.85	27119475.07	0.0088	0.0015
Venus	69539-02-12 21:07 G	27119700.16	27119700.38	27119700.60	0.0088	0.0010
Venus	69539-09-26 10:05 G	27119925.70	27119925.92	27119926.14	0.0088	0.0004
Venus	69540-05-08 22:48 G	27120151.23	27120151.45	27120151.67	0.0088	0.0002
Venus	69540-12-20 11:31 G	27120376.76	27120376.98	27120377.21	0.0088	0.0008
Venus	69541-08-03 00:15 G	27120602.30	27120602.51	27120602.74	0.0088	0.0013
Venus	69542-03-16 12:58 G	27120827.83	27120828.04	27120828.26	0.0088	0.0019
Venus	69542-10-28 01:55 G	27121053.37	27121053.58	27121053.80	0.0088	0.0024
Venus	69543-06-10 14:24 G	27121278.91	27121279.10	27121279.32	0.0088	0.0030
Venus	69544-01-22 03:22 G	27121504.44	27121504.64	27121504.85	0.0088	0.0035
Venus	69544-09-03 15:51 G	27121729.98	27121730.16	27121730.37	0.0088	0.0041
Venus	69545-04-17 04:34 G	27121955.51	27121955.69	27121955.89	0.0088	0.0046
Venus	69545-11-28 17:17 G	27122181.06	27122181.22	27122181.42	0.0088	0.0052
Venus	69546-07-12 06:00 G	27122406.60	27122406.75	27122406.93	0.0088	0.0057
Venus	69547-02-22 18:58 G	27122632.14	27122632.29	27122632.45	0.0088	0.0062
Venus	69547-10-06 07:12 G	27122857.68	27122857.80	27122857.96	0.0088	0.0068
Venus	69548-05-18 20:10 G	27123083.23	27123083.34	27123083.48	0.0088	0.0073

Venus	69548-12-30 09:07 G	27123308.79	27123308.88	27123308.98	0.0088	0.0078
Earth	69549-01-31 07:27 G	27123340.64	27123340.81	27123340.99	0.0088	0.0064
Moon	69549-01-31 10:05 G	27123340.77	27123340.92	27123341.12	0.0088	0.0066 *
Mercury	69549-04-05 09:07 G	27123404.82	27123404.88	27123404.96	0.0088	0.0079
Mercury	69549-07-02 11:17 G	27123492.89	27123492.97	27123493.08	0.0088	0.0071
Venus	69549-08-12 21:22 G	27123534.35	27123534.39	27123534.48	0.0088	0.0084
Mercury	69549-09-28 13:41 G	27123580.97	27123581.07	27123581.20	0.0088	0.0062
Mercury	69549-12-25 16:19 G	27123669.05	27123669.18	27123669.32	0.0088	0.0053
Moon	69550-02-02 16:48 G	27123707.98	27123708.20	27123708.45	0.0088	0.0034
Earth	69550-02-02 19:27 G	27123708.08	27123708.31	27123708.56	0.0088	0.0036 *
Mercury	69550-03-23 18:43 G	27123757.14	27123757.28	27123757.43	0.0088	0.0044
Mercury	69550-06-19 21:07 G	27123845.23	27123845.38	27123845.54	0.0088	0.0035
Mercury	69550-09-15 23:46 G	27123933.33	27123933.49	27123933.65	0.0088	0.0026
Mercury	69550-12-13 02:10 G	27124021.42	27124021.59	27124021.75	0.0088	0.0017
Earth	69551-02-05 07:27 G	27124075.55	27124075.81	27124076.07	0.0088	0.0008
Moon	69551-02-05 08:39 G	27124075.61	27124075.86	27124076.14	0.0088	0.0011 *
Mercury	69551-03-11 04:34 G	27124109.52	27124109.69	27124109.86	0.0088	0.0008
Mercury	69551-06-07 06:58 G	27124197.62	27124197.79	27124197.96	0.0088	0.0002
Mercury	69551-09-03 09:22 G	27124285.73	27124285.89	27124286.06	0.0088	0.0010
Mercury	69551-11-30 12:00 G	27124373.83	27124374.00	27124374.16	0.0088	0.0019
Earth	69552-02-07 19:27 G	27124443.06	27124443.31	27124443.57	0.0088	0.0020
Moon	69552-02-07 19:27 G	27124443.08	27124443.31	27124443.57	0.0088	0.0022 *
Mercury	69552-02-26 14:24 G	27124461.94	27124462.10	27124462.26	0.0088	0.0028
Mercury	69552-05-24 17:03 G	27124550.06	27124550.21	27124550.36	0.0088	0.0037
Mercury	69552-08-20 19:12 G	27124638.17	27124638.30	27124638.46	0.0088	0.0047
Mercury	69552-11-16 21:51 G	27124726.29	27124726.41	27124726.55	0.0088	0.0056
Moon	69553-02-09 06:15 G	27124810.55	27124810.76	27124811.01	0.0088	0.0046
Earth	69553-02-09 07:27 G	27124810.60	27124810.81	27124811.03	0.0088	0.0048 *
Mercury	69553-02-13 00:29 G	27124814.41	27124814.52	27124814.64	0.0088	0.0065
Mercury	69553-05-12 03:07 G	27124902.55	27124902.63	27124902.72	0.0088	0.0074

Mercury	69553-08-08 05:17 G	27124990.69	27124990.72	27124990.79	0.0088	0.0084
Earth	69554-02-11 18:58 G	27125178.18	27125178.29	27125178.44	0.0088	0.0076
Moon	69554-02-11 21:07 G	27125178.29	27125178.38	27125178.51	0.0088	0.0079 *
Mars	69582-02-17 11:17 G	27135410.67	27135410.97	27135411.27	0.0089	0.0006
Jupiter	69590-08-11 20:39 G	27138507.85	27138508.36	27138508.92	0.0089	0.0021
Venus	69612-08-06 18:43 G	27146539.26	27146539.28	27146539.35	0.0090	0.0088
Venus	69613-03-20 08:10 G	27146764.77	27146764.84	27146764.94	0.0090	0.0082
Venus	69613-10-31 21:07 G	27146990.29	27146990.38	27146990.52	0.0090	0.0077
Venus	69614-06-14 10:34 G	27147215.82	27147215.94	27147216.09	0.0090	0.0071
Venus	69615-01-26 00:00 G	27147441.36	27147441.50	27147441.66	0.0090	0.0065
Venus	69615-09-08 12:58 G	27147666.90	27147667.04	27147667.22	0.0090	0.0060
Venus	69616-04-21 02:24 G	27147892.44	27147892.60	27147892.79	0.0090	0.0054
Venus	69616-12-02 15:51 G	27148117.99	27148118.16	27148118.35	0.0090	0.0048
Venus	69617-07-16 05:17 G	27148343.53	27148343.72	27148343.91	0.0090	0.0042
Venus	69618-02-26 18:29 G	27148569.07	27148569.27	27148569.47	0.0090	0.0036
Venus	69618-10-10 07:27 G	27148794.62	27148794.81	27148795.03	0.0090	0.0031
Venus	69619-05-23 20:53 G	27149020.17	27149020.37	27149020.59	0.0090	0.0025
Venus	69620-01-04 10:05 G	27149245.72	27149245.92	27149246.15	0.0090	0.0019
Venus	69620-08-16 23:31 G	27149471.26	27149471.48	27149471.70	0.0090	0.0013
Venus	69621-03-30 12:43 G	27149696.82	27149697.03	27149697.25	0.0090	0.0007
Venus	69621-11-11 02:10 G	27149922.37	27149922.59	27149922.81	0.0090	0.0001
Venus	69622-06-24 15:07 G	27150147.92	27150148.13	27150148.36	0.0090	0.0006
Venus	69623-02-05 04:34 G	27150373.47	27150373.69	27150373.91	0.0090	0.0011
Venus	69623-09-18 17:46 G	27150599.02	27150599.24	27150599.45	0.0090	0.0017
Venus	69624-05-01 06:58 G	27150824.58	27150824.79	27150825.01	0.0090	0.0023
Venus	69624-12-12 20:10 G	27151050.14	27151050.34	27151050.56	0.0090	0.0029
Venus	69625-07-26 09:22 G	27151275.70	27151275.89	27151276.10	0.0090	0.0035
Venus	69626-03-08 22:34 G	27151501.26	27151501.44	27151501.65	0.0090	0.0041
Venus	69626-10-20 11:46 G	27151726.82	27151726.99	27151727.19	0.0090	0.0046
Venus	69627-06-03 01:27 G	27151952.39	27151952.56	27151952.74	0.0090	0.0052



Venus	69628-01-14 14:39 G	27152177.95	27152178.11	27152178.29	0.0090	0.0058
Venus	69628-08-27 03:36 G	27152403.52	27152403.65	27152403.83	0.0090	0.0064
Venus	69629-04-09 17:03 G	27152629.09	27152629.21	27152629.37	0.0090	0.0070
Venus	69629-11-21 06:43 G	27152854.67	27152854.78	27152854.91	0.0090	0.0075
Venus	69630-07-04 19:41 G	27153080.25	27153080.32	27153080.44	0.0089	0.0081
Mercury	69630-07-30 00:00 G	27153105.46	27153105.50	27153105.55	0.0089	0.0085
Earth	69630-07-31 09:07 G	27153106.73	27153106.88	27153107.07	0.0089	0.0066
Moon	69630-07-31 12:00 G	27153106.85	27153107.00	27153107.19	0.0089	0.0068 *
Mercury	69630-10-26 01:41 G	27153193.51	27153193.57	27153193.66	0.0089	0.0077
Mercury	69631-01-22 03:51 G	27153281.57	27153281.66	27153281.77	0.0089	0.0067
Venus	69631-02-15 09:22 G	27153305.84	27153305.89	27153305.96	0.0089	0.0086
Mercury	69631-04-20 05:46 G	27153369.64	27153369.74	27153369.86	0.0089	0.0059
Mercury	69631-07-17 07:41 G	27153457.70	27153457.82	27153457.95	0.0089	0.0050
Moon	69631-08-02 18:58 G	27153474.07	27153474.29	27153474.52	0.0089	0.0035
Earth	69631-08-02 20:53 G	27153474.15	27153474.37	27153474.61	0.0089	0.0037 *
Mercury	69631-10-13 09:36 G	27153545.78	27153545.90	27153546.04	0.0089	0.0042
Mercury	69632-01-09 11:31 G	27153633.85	27153633.98	27153634.13	0.0089	0.0033
Mercury	69632-04-06 13:27 G	27153721.92	27153722.06	27153722.21	0.0089	0.0025
Mercury	69632-07-03 15:22 G	27153810.00	27153810.14	27153810.29	0.0089	0.0016
Earth	69632-08-04 08:24 G	27153841.59	27153841.85	27153842.10	0.0089	0.0008
Moon	69632-08-04 08:24 G	27153841.60	27153841.85	27153842.12	0.0089	0.0011 *
Mercury	69632-09-29 17:17 G	27153898.07	27153898.22	27153898.37	0.0089	0.0008
Mercury	69632-12-26 19:12 G	27153986.15	27153986.30	27153986.45	0.0089	0.0001
Mercury	69633-03-24 21:07 G	27154074.23	27154074.38	27154074.52	0.0089	0.0009
Mercury	69633-06-20 22:48 G	27154162.31	27154162.45	27154162.60	0.0089	0.0018
Earth	69633-08-06 19:27 G	27154209.07	27154209.31	27154209.57	0.0089	0.0021
Moon	69633-08-06 19:55 G	27154209.10	27154209.33	27154209.58	0.0089	0.0023 *
Mercury	69633-09-17 00:43 G	27154250.39	27154250.53	27154250.67	0.0089	0.0026
Mercury	69633-12-14 02:24 G	27154338.47	27154338.60	27154338.74	0.0089	0.0034
Mercury	69634-03-12 04:05 G	27154426.55	27154426.67	27154426.81	0.0089	0.0043

Mercury	69634-06-08 06:00 G	27154514.64	27154514.75	27154514.88	0.0089	0.0051
Moon	69634-08-09 05:03 G	27154576.50	27154576.71	27154576.94	0.0089	0.0048
Earth	69634-08-09 06:29 G	27154576.58	27154576.77	27154577.01	0.0089	0.0051 *
Mercury	69634-09-04 07:55 G	27154602.72	27154602.83	27154602.94	0.0089	0.0059
Mercury	69634-12-01 09:22 G	27154690.81	27154690.89	27154691.00	0.0089	0.0068
Mercury	69635-02-27 11:03 G	27154778.90	27154778.96	27154779.06	0.0089	0.0076
Mercury	69635-05-26 12:58 G	27154867.00	27154867.04	27154867.10	0.0089	0.0083
Earth	69635-08-11 17:46 G	27154944.14	27154944.24	27154944.38	0.0089	0.0079
Moon	69635-08-11 20:39 G	27154944.28	27154944.36	27154944.49	0.0089	0.0082 *
Mars	69664-01-14 20:53 G	27165327.14	27165327.37	27165327.61	0.0088	0.0062
Venus	69694-09-23 20:24 G	27176537.33	27176537.35	27176537.43	0.0088	0.0086
Venus	69695-05-07 09:51 G	27176762.83	27176762.91	27176763.00	0.0088	0.0080
Venus	69695-12-18 22:19 G	27176988.33	27176988.43	27176988.56	0.0088	0.0075
Venus	69696-07-31 11:03 G	27177213.85	27177213.96	27177214.11	0.0088	0.0070
Venus	69697-03-14 00:00 G	27177439.36	27177439.50	27177439.66	0.0088	0.0064
Venus	69697-10-25 12:43 G	27177664.89	27177665.03	27177665.22	0.0088	0.0059
Venus	69698-06-08 01:55 G	27177890.41	27177890.58	27177890.76	0.0088	0.0053
Venus	69699-01-19 14:24 G	27178115.93	27178116.10	27178116.30	0.0088	0.0048
Venus	69699-09-02 03:22 G	27178341.45	27178341.64	27178341.84	0.0088	0.0042
Venus	69700-04-15 16:05 G	27178566.98	27178567.17	27178567.38	0.0088	0.0037
Venus	69700-11-27 05:03 G	27178792.51	27178792.71	27178792.92	0.0088	0.0031
Venus	69701-07-10 17:31 G	27179018.03	27179018.23	27179018.46	0.0088	0.0026
Venus	69702-02-21 06:29 G	27179243.56	27179243.77	27179243.99	0.0088	0.0020
Venus	69702-10-04 19:12 G	27179469.10	27179469.30	27179469.53	0.0088	0.0015
Venus	69703-05-18 08:10 G	27179694.63	27179694.84	27179695.07	0.0088	0.0009
Venus	69703-12-29 21:07 G	27179920.16	27179920.38	27179920.60	0.0088	0.0003
Venus	69704-08-11 09:51 G	27180145.69	27180145.91	27180146.13	0.0088	0.0003
Venus	69705-03-24 22:34 G	27180371.22	27180371.44	27180371.67	0.0088	0.0008
Venus	69705-11-05 11:31 G	27180596.77	27180596.98	27180597.20	0.0088	0.0014
Venus	69706-06-19 00:15 G	27180822.30	27180822.51	27180822.73	0.0088	0.0020

Venus	69707-01-30 12:58 G	27181047.84	27181048.04	27181048.26	0.0088	0.0025
Venus	69707-09-13 01:41 G	27181273.37	27181273.57	27181273.79	0.0088	0.0031
Venus	69708-04-25 14:39 G	27181498.91	27181499.11	27181499.31	0.0088	0.0036
Venus	69708-12-07 03:07 G	27181724.45	27181724.63	27181724.84	0.0088	0.0042
Venus	69709-07-20 16:19 G	27181949.99	27181950.18	27181950.37	0.0088	0.0047
Venus	69710-03-03 04:34 G	27182175.53	27182175.69	27182175.89	0.0088	0.0053
Venus	69710-10-14 17:31 G	27182401.08	27182401.23	27182401.41	0.0088	0.0058
Venus	69711-05-28 06:00 G	27182626.62	27182626.75	27182626.92	0.0088	0.0064
Venus	69712-01-08 18:58 G	27182852.17	27182852.29	27182852.44	0.0088	0.0069
Venus	69712-08-21 07:55 G	27183077.71	27183077.83	27183077.94	0.0088	0.0074
Moon	69713-01-31 14:53 G	27183241.05	27183241.12	27183241.24	0.0088	0.0081
Earth	69713-01-31 16:48 G	27183241.09	27183241.20	27183241.35	0.0088	0.0076 *
Venus	69713-04-03 20:10 G	27183303.27	27183303.34	27183303.45	0.0088	0.0080
Mercury	69713-10-05 05:46 G	27183487.70	27183487.74	27183487.81	0.0088	0.0082
Venus	69713-11-15 09:07 G	27183528.84	27183528.88	27183528.95	0.0088	0.0085
Mercury	69714-01-01 08:24 G	27183575.76	27183575.85	27183575.94	0.0088	0.0073
Earth	69714-02-03 04:48 G	27183608.49	27183608.70	27183608.92	0.0088	0.0048
Moon	69714-02-03 05:31 G	27183608.51	27183608.73	27183608.98	0.0088	0.0044 *
Mercury	69714-03-30 10:34 G	27183663.84	27183663.94	27183664.06	0.0088	0.0065
Mercury	69714-06-26 12:58 G	27183751.92	27183752.04	27183752.18	0.0088	0.0056
Mercury	69714-09-22 15:22 G	27183840.01	27183840.14	27183840.29	0.0088	0.0047
Mercury	69714-12-19 18:00 G	27183928.10	27183928.25	27183928.40	0.0088	0.0038
Earth	69715-02-05 16:48 G	27183975.95	27183976.20	27183976.46	0.0088	0.0020
Moon	69715-02-05 16:48 G	27183975.97	27183976.20	27183976.46	0.0088	0.0025 *
Mercury	69715-03-17 20:24 G	27184016.19	27184016.35	27184016.51	0.0088	0.0029
Mercury	69715-06-13 22:48 G	27184104.29	27184104.45	27184104.61	0.0088	0.0020
Mercury	69715-09-10 01:12 G	27184192.39	27184192.55	27184192.72	0.0088	0.0012
Mercury	69715-12-07 03:51 G	27184280.49	27184280.66	27184280.82	0.0088	0.0003
Moon	69716-02-08 02:53 G	27184343.36	27184343.62	27184343.89	0.0088	0.0013
Earth	69716-02-08 05:03 G	27184343.45	27184343.71	27184343.97	0.0088	0.0008 *

Mercury	69716-03-04 06:15 G	27184368.59	27184368.76	27184368.93	0.0088	0.0007
Mercury	69716-05-31 08:39 G	27184456.70	27184456.86	27184457.03	0.0088	0.0016
Mercury	69716-08-27 11:03 G	27184544.80	27184544.96	27184545.13	0.0088	0.0025
Mercury	69716-11-23 13:27 G	27184632.91	27184633.06	27184633.23	0.0088	0.0034
Earth	69717-02-09 16:48 G	27184710.97	27184711.20	27184711.44	0.0088	0.0036
Moon	69717-02-09 19:12 G	27184711.07	27184711.30	27184711.54	0.0088	0.0032 *
Mercury	69717-02-19 16:05 G	27184721.03	27184721.17	27184721.32	0.0088	0.0043
Mercury	69717-05-18 18:43 G	27184809.14	27184809.28	27184809.42	0.0088	0.0052
Mercury	69717-08-14 20:53 G	27184897.27	27184897.37	27184897.51	0.0088	0.0062
Mercury	69717-11-10 23:31 G	27184985.39	27184985.48	27184985.59	0.0088	0.0071
Mercury	69718-02-07 02:10 G	27185073.53	27185073.59	27185073.67	0.0088	0.0080
Moon	69718-02-12 00:58 G	27185078.40	27185078.54	27185078.73	0.0088	0.0069
Earth	69718-02-12 04:34 G	27185078.53	27185078.69	27185078.88	0.0088	0.0064 *
Moon	69719-02-14 20:10 G	27185446.34	27185446.34	27185446.38	0.0088	0.0088
Mars	69745-10-03 18:29 G	27195174.07	27195174.27	27195174.48	0.0089	0.0064
Mars	69747-08-28 20:24 G	27195868.25	27195868.35	27195868.49	0.0089	0.0081
Jupiter	69756-10-17 19:12 G	27199205.77	27199206.30	27199206.85	0.0089	0.0011
Venus	69776-11-09 05:46 G	27206533.72	27206533.74	27206533.81	0.0090	0.0088
Venus	69777-06-22 18:58 G	27206759.22	27206759.29	27206759.40	0.0090	0.0082
Venus	69778-02-03 08:24 G	27206984.74	27206984.85	27206984.97	0.0090	0.0076
Venus	69778-09-16 21:22 G	27207210.27	27207210.39	27207210.54	0.0090	0.0071
Venus	69779-04-30 10:48 G	27207435.81	27207435.95	27207436.11	0.0090	0.0065
Venus	69779-12-12 00:15 G	27207661.35	27207661.51	27207661.68	0.0090	0.0059
Venus	69780-07-24 12:58 G	27207886.89	27207887.04	27207887.24	0.0090	0.0054
Venus	69781-03-07 02:24 G	27208112.43	27208112.60	27208112.80	0.0090	0.0048
Venus	69781-10-18 15:51 G	27208337.98	27208338.16	27208338.36	0.0090	0.0042
Venus	69782-06-01 05:17 G	27208563.53	27208563.72	27208563.93	0.0090	0.0036
Venus	69783-01-12 18:29 G	27208789.07	27208789.27	27208789.48	0.0090	0.0030
Venus	69783-08-26 07:55 G	27209014.62	27209014.83	27209015.04	0.0090	0.0024
Venus	69784-04-07 21:22 G	27209240.17	27209240.39	27209240.60	0.0090	0.0018

Venus	69784-11-19 10:34 G	27209465.73	27209465.94	27209466.16	0.0090	0.0012
Venus	69785-07-02 23:46 G	27209691.27	27209691.49	27209691.71	0.0090	0.0006
Venus	69786-02-13 12:58 G	27209916.82	27209917.04	27209917.26	0.0090	0.0002
Venus	69786-09-27 02:24 G	27210142.38	27210142.60	27210142.81	0.0090	0.0006
Venus	69787-05-10 15:36 G	27210367.94	27210368.15	27210368.37	0.0090	0.0012
Venus	69787-12-22 04:48 G	27210593.49	27210593.70	27210593.92	0.0090	0.0018
Venus	69788-08-03 18:00 G	27210819.04	27210819.25	27210819.47	0.0090	0.0024
Venus	69789-03-17 07:12 G	27211044.60	27211044.80	27211045.01	0.0090	0.0030
Venus	69789-10-28 20:24 G	27211270.16	27211270.35	27211270.56	0.0090	0.0036
Venus	69790-06-11 09:36 G	27211495.72	27211495.90	27211496.11	0.0090	0.0042
Venus	69791-01-22 22:48 G	27211721.28	27211721.45	27211721.65	0.0090	0.0048
Venus	69791-09-05 12:29 G	27211946.84	27211947.02	27211947.19	0.0090	0.0053
Venus	69792-04-18 01:41 G	27212172.41	27212172.57	27212172.74	0.0090	0.0059
Venus	69792-11-29 14:53 G	27212397.98	27212398.12	27212398.28	0.0090	0.0065
Venus	69793-07-13 04:05 G	27212623.55	27212623.67	27212623.82	0.0090	0.0071
Venus	69794-02-23 17:46 G	27212849.13	27212849.24	27212849.35	0.0090	0.0076
Moon	69794-07-31 18:29 G	27213007.15	27213007.27	27213007.42	0.0089	0.0075
Earth	69794-07-31 19:55 G	27213007.21	27213007.33	27213007.46	0.0089	0.0078 *
Venus	69794-10-07 06:43 G	27213074.71	27213074.78	27213074.88	0.0089	0.0082
Mercury	69795-01-28 21:36 G	27213188.38	27213188.40	27213188.43	0.0089	0.0088
Mercury	69795-04-26 23:17 G	27213276.42	27213276.47	27213276.56	0.0089	0.0080
Venus	69795-05-20 19:55 G	27213300.31	27213300.33	27213300.40	0.0089	0.0088
Mercury	69795-07-24 01:27 G	27213364.48	27213364.56	27213364.66	0.0089	0.0070
Earth	69795-08-03 06:58 G	27213374.60	27213374.79	27213375.02	0.0089	0.0050
Moon	69795-08-03 07:41 G	27213374.62	27213374.82	27213375.04	0.0089	0.0053 *
Mercury	69795-10-20 03:22 G	27213452.54	27213452.64	27213452.76	0.0089	0.0062
Mercury	69796-01-16 05:17 G	27213540.61	27213540.72	27213540.85	0.0089	0.0053
Mercury	69796-04-13 07:12 G	27213628.68	27213628.80	27213628.94	0.0089	0.0045
Mercury	69796-07-10 09:22 G	27213716.75	27213716.89	27213717.03	0.0089	0.0036
Earth	69796-08-04 18:43 G	27213742.04	27213742.28	27213742.54	0.0089	0.0021

Moon	69796-08-04 20:10 G	27213742.10	27213742.34	27213742.59	0.0089	0.0017	*
Mercury	69796-10-06 11:17 G	27213804.83	27213804.97	27213805.11	0.0089	0.0027	
Mercury	69797-01-02 13:12 G	27213892.90	27213893.05	27213893.20	0.0089	0.0019	
Mercury	69797-03-31 15:07 G	27213980.98	27213981.13	27213981.28	0.0089	0.0010	
Mercury	69797-06-27 17:03 G	27214069.06	27214069.21	27214069.36	0.0089	0.0003	
Moon	69797-08-07 04:05 G	27214109.41	27214109.67	27214109.93	0.0089	0.0005	
Earth	69797-08-07 06:15 G	27214109.51	27214109.76	27214110.02	0.0089	0.0009	*
Mercury	69797-09-23 18:43 G	27214157.14	27214157.28	27214157.43	0.0089	0.0007	
Mercury	69797-12-20 20:39 G	27214245.22	27214245.36	27214245.51	0.0089	0.0015	
Mercury	69798-03-18 22:19 G	27214333.30	27214333.43	27214333.58	0.0089	0.0024	
Mercury	69798-06-15 00:15 G	27214421.38	27214421.51	27214421.65	0.0089	0.0032	
Earth	69798-08-09 17:17 G	27214477.00	27214477.22	27214477.46	0.0089	0.0038	
Moon	69798-08-09 20:24 G	27214477.13	27214477.35	27214477.57	0.0089	0.0042	*
Mercury	69798-09-11 02:10 G	27214509.46	27214509.59	27214509.72	0.0089	0.0040	
Mercury	69798-12-08 03:51 G	27214597.54	27214597.66	27214597.79	0.0089	0.0048	
Mercury	69799-03-06 05:31 G	27214685.63	27214685.73	27214685.86	0.0089	0.0057	
Mercury	69799-06-02 07:27 G	27214773.72	27214773.81	27214773.92	0.0089	0.0064	
Moon	69799-08-12 00:43 G	27214844.37	27214844.53	27214844.74	0.0089	0.0063	
Earth	69799-08-12 04:19 G	27214844.54	27214844.68	27214844.88	0.0089	0.0067	*
Mercury	69799-08-29 09:07 G	27214861.81	27214861.88	27214861.97	0.0089	0.0073	
Mercury	69799-11-25 11:03 G	27214949.90	27214949.96	27214950.03	0.0089	0.0081	
Mercury	69800-02-21 12:43 G	27215038.02	27215038.03	27215038.05	0.0089	0.0089	
Mars	69827-08-30 21:36 G	27225089.08	27225089.40	27225089.74	0.0088	0.0003	
Venus	69858-12-28 07:12 G	27236531.78	27236531.80	27236531.88	0.0088	0.0086	
Venus	69859-08-10 20:24 G	27236757.28	27236757.35	27236757.45	0.0088	0.0080	
Venus	69860-03-23 09:07 G	27236982.79	27236982.88	27236983.02	0.0088	0.0075	
Venus	69860-11-03 22:34 G	27237208.31	27237208.44	27237208.58	0.0088	0.0069	
Venus	69861-06-17 11:03 G	27237433.83	27237433.96	27237434.13	0.0088	0.0064	
Venus	69862-01-28 23:46 G	27237659.35	27237659.49	27237659.68	0.0088	0.0059	
Venus	69862-09-11 12:43 G	27237884.87	27237885.03	27237885.22	0.0088	0.0053	

Venus	69863-04-25 01:55 G	27238110.40	27238110.58	27238110.77	0.0088	0.0047
Venus	69863-12-06 14:24 G	27238335.92	27238336.10	27238336.31	0.0088	0.0042
Venus	69864-07-19 03:22 G	27238561.44	27238561.64	27238561.85	0.0088	0.0036
Venus	69865-03-01 16:05 G	27238786.97	27238787.17	27238787.39	0.0088	0.0031
Venus	69865-10-13 05:03 G	27239012.50	27239012.71	27239012.93	0.0088	0.0025
Venus	69866-05-26 18:00 G	27239238.03	27239238.25	27239238.46	0.0088	0.0019
Venus	69867-01-07 06:29 G	27239463.56	27239463.77	27239464.00	0.0088	0.0014
Venus	69867-08-20 19:27 G	27239689.09	27239689.31	27239689.53	0.0088	0.0008
Venus	69868-04-02 08:10 G	27239914.62	27239914.84	27239915.06	0.0088	0.0002
Venus	69868-11-13 21:07 G	27240140.16	27240140.38	27240140.60	0.0088	0.0003
Venus	69869-06-27 09:51 G	27240365.69	27240365.91	27240366.13	0.0088	0.0009
Venus	69870-02-07 22:34 G	27240591.22	27240591.44	27240591.66	0.0088	0.0015
Venus	69870-09-21 11:03 G	27240816.76	27240816.96	27240817.19	0.0088	0.0021
Venus	69871-05-05 00:00 G	27241042.30	27241042.50	27241042.72	0.0088	0.0026
Venus	69871-12-16 12:43 G	27241267.84	27241268.03	27241268.25	0.0088	0.0032
Venus	69872-07-29 01:55 G	27241493.38	27241493.58	27241493.78	0.0088	0.0037
Venus	69873-03-11 14:24 G	27241718.92	27241719.10	27241719.30	0.0088	0.0043
Venus	69873-10-23 03:07 G	27241944.46	27241944.63	27241944.83	0.0088	0.0049
Venus	69874-06-05 15:51 G	27242170.00	27242170.16	27242170.35	0.0088	0.0054
Venus	69875-01-17 04:19 G	27242395.54	27242395.68	27242395.87	0.0088	0.0060
Venus	69875-08-30 17:17 G	27242621.09	27242621.22	27242621.38	0.0088	0.0065
Venus	69876-04-12 06:15 G	27242846.63	27242846.76	27242846.89	0.0088	0.0070
Venus	69876-11-23 18:43 G	27243072.19	27243072.28	27243072.41	0.0088	0.0076
Moon	69877-02-01 02:10 G	27243141.56	27243141.59	27243141.62	0.0088	0.0087
Earth	69877-02-01 02:10 G	27243141.59	27243141.59	27243141.59	0.0088	0.0088 *
Venus	69877-07-07 07:27 G	27243297.75	27243297.81	27243297.91	0.0088	0.0081
Earth	69878-02-03 13:41 G	27243508.89	27243509.07	27243509.27	0.0088	0.0060
Moon	69878-02-03 14:39 G	27243508.95	27243509.11	27243509.31	0.0088	0.0061 *
Venus	69878-02-17 20:24 G	27243523.32	27243523.35	27243523.39	0.0088	0.0086
Mercury	69878-04-06 02:39 G	27243570.58	27243570.61	27243570.66	0.0088	0.0085

Mercury	69878-07-03 05:17 G	27243658.64	27243658.72	27243658.80	0.0088	0.0076
Mercury	69878-09-29 07:12 G	27243746.71	27243746.80	27243746.92	0.0088	0.0068
Mercury	69878-12-26 09:51 G	27243834.79	27243834.91	27243835.04	0.0088	0.0059
Moon	69879-02-05 23:46 G	27243876.25	27243876.49	27243876.75	0.0088	0.0031
Earth	69879-02-06 01:55 G	27243876.34	27243876.58	27243876.82	0.0088	0.0032 *
Mercury	69879-03-24 12:15 G	27243922.88	27243923.01	27243923.15	0.0088	0.0050
Mercury	69879-06-20 14:24 G	27244010.97	27244011.10	27244011.26	0.0088	0.0042
Mercury	69879-09-16 16:48 G	27244099.06	27244099.20	27244099.37	0.0088	0.0033
Mercury	69879-12-13 19:27 G	27244187.15	27244187.31	27244187.47	0.0088	0.0024
Earth	69880-02-08 13:41 G	27244243.81	27244244.07	27244244.33	0.0088	0.0004
Moon	69880-02-08 17:03 G	27244243.95	27244244.21	27244244.46	0.0088	0.0005 *
Mercury	69880-03-10 21:51 G	27244275.25	27244275.41	27244275.58	0.0088	0.0015
Mercury	69880-06-07 00:15 G	27244363.35	27244363.51	27244363.68	0.0088	0.0006
Mercury	69880-09-03 02:39 G	27244451.45	27244451.61	27244451.78	0.0088	0.0004
Mercury	69880-11-30 05:17 G	27244539.55	27244539.72	27244539.88	0.0088	0.0012
Moon	69881-02-09 22:05 G	27244611.17	27244611.42	27244611.68	0.0088	0.0024
Earth	69881-02-10 01:27 G	27244611.32	27244611.56	27244611.82	0.0088	0.0024 *
Mercury	69881-02-26 07:41 G	27244627.66	27244627.82	27244627.98	0.0088	0.0021
Mercury	69881-05-25 10:05 G	27244715.77	27244715.92	27244716.08	0.0088	0.0030
Mercury	69881-08-21 12:15 G	27244803.88	27244804.01	27244804.18	0.0088	0.0040
Mercury	69881-11-17 14:53 G	27244891.99	27244892.12	27244892.27	0.0088	0.0049
Earth	69882-02-12 13:12 G	27244978.86	27244979.05	27244979.27	0.0088	0.0052
Moon	69882-02-12 16:48 G	27244979.01	27244979.20	27244979.43	0.0088	0.0050 *
Mercury	69882-02-13 17:17 G	27244980.11	27244980.22	27244980.36	0.0088	0.0058
Mercury	69882-05-12 19:55 G	27245068.23	27245068.33	27245068.45	0.0088	0.0067
Mercury	69882-08-08 22:34 G	27245156.37	27245156.44	27245156.53	0.0088	0.0076
Mercury	69882-11-05 00:58 G	27245244.52	27245244.54	27245244.59	0.0088	0.0086
Moon	69883-02-14 21:51 G	27245346.34	27245346.41	27245346.53	0.0088	0.0081
Earth	69883-02-15 00:58 G	27245346.46	27245346.54	27245346.68	0.0088	0.0080 *
Mars	69911-04-15 04:05 G	27255631.38	27255631.67	27255631.96	0.0089	0.0021



Jupiter	69922-12-21 08:10 G	27259899.37	27259899.84	27259900.35	0.0089	0.0040
Venus	69941-02-12 16:34 G	27266528.17	27266528.19	27266528.27	0.0090	0.0088
Venus	69941-09-26 06:00 G	27266753.68	27266753.75	27266753.85	0.0090	0.0082
Venus	69942-05-09 19:27 G	27266979.21	27266979.31	27266979.43	0.0090	0.0076
Venus	69942-12-21 08:10 G	27267204.73	27267204.84	27267205.00	0.0090	0.0071
Venus	69943-08-03 21:36 G	27267430.26	27267430.40	27267430.56	0.0090	0.0065
Venus	69944-03-16 10:48 G	27267655.80	27267655.95	27267656.13	0.0090	0.0059
Venus	69944-10-28 00:15 G	27267881.34	27267881.51	27267881.69	0.0090	0.0053
Venus	69945-06-10 13:27 G	27268106.88	27268107.06	27268107.25	0.0090	0.0047
Venus	69946-01-22 02:24 G	27268332.42	27268332.60	27268332.81	0.0090	0.0042
Venus	69946-09-04 15:36 G	27268557.96	27268558.15	27268558.37	0.0090	0.0036
Venus	69947-04-18 05:03 G	27268783.52	27268783.71	27268783.93	0.0090	0.0030
Venus	69947-11-29 18:29 G	27269009.07	27269009.27	27269009.49	0.0090	0.0024
Venus	69948-07-12 07:41 G	27269234.61	27269234.82	27269235.04	0.0090	0.0018
Venus	69949-02-22 20:53 G	27269460.16	27269460.37	27269460.60	0.0090	0.0012
Venus	69949-10-06 10:19 G	27269685.71	27269685.93	27269686.15	0.0090	0.0006
Venus	69950-05-19 23:46 G	27269911.27	27269911.49	27269911.71	0.0090	0.0001
Venus	69950-12-31 12:58 G	27270136.82	27270137.04	27270137.26	0.0090	0.0007
Venus	69951-08-14 02:10 G	27270362.38	27270362.59	27270362.81	0.0090	0.0013
Venus	69952-03-26 15:22 G	27270587.93	27270588.14	27270588.36	0.0090	0.0019
Venus	69952-11-07 04:34 G	27270813.49	27270813.69	27270813.91	0.0090	0.0025
Venus	69953-06-20 17:46 G	27271039.05	27271039.24	27271039.46	0.0090	0.0031
Venus	69954-02-01 06:58 G	27271264.60	27271264.79	27271265.00	0.0090	0.0037
Venus	69954-09-14 20:10 G	27271490.16	27271490.34	27271490.55	0.0090	0.0043
Venus	69955-04-28 09:22 G	27271715.73	27271715.89	27271716.09	0.0090	0.0049
Venus	69955-12-09 23:03 G	27271941.29	27271941.46	27271941.64	0.0090	0.0054
Venus	69956-07-22 12:00 G	27272166.85	27272167.00	27272167.18	0.0090	0.0060
Venus	69957-03-05 01:12 G	27272392.42	27272392.55	27272392.71	0.0090	0.0066
Venus	69957-10-16 14:24 G	27272617.99	27272618.10	27272618.25	0.0090	0.0072
Venus	69958-05-30 04:19 G	27272843.57	27272843.68	27272843.79	0.0090	0.0077

Moon	69958-08-02 04:34 G	27272907.65	27272907.69	27272907.77	0.0090	0.0087
Venus	69959-01-10 17:17 G	27273069.15	27273069.22	27273069.31	0.0089	0.0083
Earth	69959-08-04 16:48 G	27273275.03	27273275.20	27273275.39	0.0089	0.0062
Moon	69959-08-04 18:15 G	27273275.10	27273275.26	27273275.43	0.0089	0.0065 *
Venus	69959-08-24 06:15 G	27273294.75	27273294.76	27273294.82	0.0089	0.0089
Mercury	69959-10-27 20:53 G	27273359.32	27273359.37	27273359.43	0.0089	0.0083
Mercury	69960-01-23 23:03 G	27273447.38	27273447.46	27273447.54	0.0089	0.0074
Mercury	69960-04-21 00:43 G	27273535.44	27273535.53	27273535.64	0.0089	0.0066
Mercury	69960-07-18 02:53 G	27273623.51	27273623.62	27273623.74	0.0089	0.0057
Moon	69960-08-06 01:27 G	27273642.33	27273642.56	27273642.82	0.0089	0.0029
Earth	69960-08-06 04:05 G	27273642.45	27273642.67	27273642.93	0.0089	0.0034 *
Mercury	69960-10-14 04:34 G	27273711.58	27273711.69	27273711.83	0.0089	0.0049
Mercury	69961-01-10 06:43 G	27273799.65	27273799.78	27273799.92	0.0089	0.0039
Mercury	69961-04-08 08:39 G	27273887.73	27273887.86	27273888.01	0.0089	0.0031
Mercury	69961-07-05 10:34 G	27273975.80	27273975.94	27273976.09	0.0089	0.0022
Earth	69961-08-08 15:51 G	27274009.91	27274010.16	27274010.42	0.0089	0.0004
Moon	69961-08-08 19:12 G	27274010.05	27274010.30	27274010.55	0.0089	0.0008 *
Mercury	69961-10-01 12:29 G	27274063.88	27274064.02	27274064.17	0.0089	0.0014
Mercury	69961-12-28 14:24 G	27274151.96	27274152.10	27274152.25	0.0089	0.0006
Mercury	69962-03-26 16:19 G	27274240.03	27274240.18	27274240.33	0.0089	0.0004
Mercury	69962-06-22 18:15 G	27274328.11	27274328.26	27274328.41	0.0089	0.0012
Moon	69962-08-10 23:46 G	27274377.26	27274377.49	27274377.74	0.0089	0.0028
Earth	69962-08-11 03:22 G	27274377.40	27274377.64	27274377.89	0.0089	0.0025 *
Mercury	69962-09-18 19:55 G	27274416.19	27274416.33	27274416.48	0.0089	0.0021
Mercury	69962-12-15 21:51 G	27274504.28	27274504.41	27274504.56	0.0089	0.0029
Mercury	69963-03-13 23:46 G	27274592.36	27274592.49	27274592.63	0.0089	0.0037
Mercury	69963-06-10 01:27 G	27274680.44	27274680.56	27274680.70	0.0089	0.0045
Earth	69963-08-13 14:24 G	27274744.91	27274745.10	27274745.32	0.0089	0.0054
Moon	69963-08-13 17:46 G	27274745.05	27274745.24	27274745.48	0.0089	0.0051 *
Mercury	69963-09-06 03:22 G	27274768.53	27274768.64	27274768.76	0.0089	0.0053

Mercury	69963-12-03 05:03 G	27274856.61	27274856.71	27274856.83	0.0089	0.0062
Mercury	69964-02-29 06:58 G	27274944.71	27274944.79	27274944.89	0.0089	0.0070
Mercury	69964-05-27 08:53 G	27275032.80	27275032.87	27275032.94	0.0089	0.0078
Moon	69964-08-14 23:17 G	27275112.42	27275112.47	27275112.56	0.0089	0.0086
Earth	69964-08-15 01:41 G	27275112.50	27275112.57	27275112.69	0.0089	0.0083 *
Mercury	69964-08-23 10:34 G	27275120.91	27275120.94	27275120.98	0.0089	0.0086
Mars	69991-04-14 20:24 G	27284851.15	27284851.35	27284851.59	0.0088	0.0067

# 71ST MILLENNIUM CE

This is a list of transits visible from Neptune in the 71st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	70023-04-01 17:46 G		27296526.22	27296526.24	27296526.31	0.0088	0.0086	
Venus	70023-11-13 06:58 G		27296751.71	27296751.79	27296751.89	0.0088	0.0080	
Venus	70024-06-25 19:41 G		27296977.22	27296977.32	27296977.45	0.0088	0.0075	
Venus	70025-02-06 08:53 G		27297202.74	27297202.87	27297203.01	0.0088	0.0069	
Venus	70025-09-19 21:36 G		27297428.26	27297428.40	27297428.57	0.0088	0.0064	
Venus	70026-05-03 10:34 G		27297653.79	27297653.94	27297654.12	0.0088	0.0058	
Venus	70026-12-14 23:17 G		27297879.31	27297879.47	27297879.66	0.0088	0.0053	
Venus	70027-07-28 12:15 G		27298104.83	27298105.01	27298105.21	0.0088	0.0047	
Venus	70028-03-10 00:58 G		27298330.36	27298330.54	27298330.75	0.0088	0.0042	
Venus	70028-10-21 13:55 G		27298555.89	27298556.08	27298556.30	0.0088	0.0036	
Venus	70029-06-04 02:53 G		27298781.42	27298781.62	27298781.83	0.0088	0.0030	

Venus	70030-01-15 15:36 G	27299006.94	27299007.15	27299007.37	0.0088	0.0025
Venus	70030-08-29 04:19 G	27299232.47	27299232.68	27299232.90	0.0088	0.0019
Venus	70031-04-11 17:17 G	27299458.00	27299458.22	27299458.44	0.0088	0.0013
Venus	70031-11-23 06:00 G	27299683.54	27299683.75	27299683.98	0.0088	0.0008
Venus	70032-07-05 18:58 G	27299909.07	27299909.29	27299909.51	0.0088	0.0002
Venus	70033-02-16 07:41 G	27300134.60	27300134.82	27300135.04	0.0088	0.0004
Venus	70033-09-29 20:24 G	27300360.13	27300360.35	27300360.57	0.0088	0.0010
Venus	70034-05-13 09:07 G	27300585.67	27300585.88	27300586.10	0.0088	0.0015
Venus	70034-12-24 21:51 G	27300811.20	27300811.41	27300811.63	0.0088	0.0021
Venus	70035-08-07 10:34 G	27301036.74	27301036.94	27301037.16	0.0088	0.0027
Venus	70036-03-19 23:17 G	27301262.28	27301262.47	27301262.69	0.0088	0.0033
Venus	70036-10-31 12:29 G	27301487.82	27301488.02	27301488.22	0.0088	0.0038
Venus	70037-06-14 00:58 G	27301713.36	27301713.54	27301713.75	0.0088	0.0044
Venus	70038-01-25 13:55 G	27301938.90	27301939.08	27301939.27	0.0088	0.0049
Venus	70038-09-08 02:24 G	27302164.45	27302164.60	27302164.79	0.0088	0.0055
Venus	70039-04-21 15:36 G	27302389.99	27302390.15	27302390.31	0.0088	0.0060
Venus	70039-12-03 04:05 G	27302615.55	27302615.67	27302615.83	0.0088	0.0066
Venus	70040-07-15 17:17 G	27302841.09	27302841.22	27302841.35	0.0088	0.0071
Venus	70041-02-26 05:31 G	27303066.65	27303066.73	27303066.86	0.0088	0.0077
Venus	70041-10-09 18:29 G	27303292.21	27303292.27	27303292.36	0.0088	0.0082
Moon	70042-02-03 19:12 G	27303409.20	27303409.30	27303409.46	0.0088	0.0077
Earth	70042-02-03 22:19 G	27303409.30	27303409.43	27303409.60	0.0088	0.0072 *
Venus	70042-05-23 07:12 G	27303517.80	27303517.80	27303517.83	0.0088	0.0088
Mercury	70043-01-02 01:41 G	27303741.52	27303741.57	27303741.65	0.0088	0.0080
Earth	70043-02-06 10:34 G	27303776.72	27303776.94	27303777.17	0.0088	0.0044
Moon	70043-02-06 13:27 G	27303776.84	27303777.06	27303777.30	0.0088	0.0040 *
Mercury	70043-03-31 04:05 G	27303829.59	27303829.67	27303829.78	0.0088	0.0071
Mercury	70043-06-27 06:29 G	27303917.66	27303917.77	27303917.89	0.0088	0.0062
Mercury	70043-09-23 08:39 G	27304005.75	27304005.86	27304006.01	0.0088	0.0054
Mercury	70043-12-20 11:03 G	27304093.83	27304093.96	27304094.12	0.0088	0.0045

Moon	70044-02-08 18:29 G	27304144.03	27304144.27	27304144.54	0.0088	0.0022
Earth	70044-02-08 22:19 G	27304144.19	27304144.43	27304144.70	0.0088	0.0017 *
Mercury	70044-03-17 13:41 G	27304181.92	27304182.07	27304182.23	0.0088	0.0036
Mercury	70044-06-13 16:05 G	27304270.01	27304270.17	27304270.33	0.0088	0.0027
Mercury	70044-09-09 18:29 G	27304358.11	27304358.27	27304358.44	0.0088	0.0018
Mercury	70044-12-06 20:53 G	27304446.21	27304446.37	27304446.54	0.0088	0.0009
Earth	70045-02-10 10:19 G	27304511.67	27304511.93	27304512.19	0.0088	0.0011
Moon	70045-02-10 13:41 G	27304511.81	27304512.07	27304512.33	0.0088	0.0016 *
Mercury	70045-03-04 23:17 G	27304534.31	27304534.47	27304534.64	0.0088	0.0002
Mercury	70045-06-01 01:41 G	27304622.41	27304622.57	27304622.74	0.0088	0.0009
Mercury	70045-08-28 04:05 G	27304710.51	27304710.67	27304710.84	0.0088	0.0018
Mercury	70045-11-24 06:29 G	27304798.62	27304798.77	27304798.94	0.0088	0.0027
Moon	70046-02-12 18:58 G	27304879.07	27304879.29	27304879.54	0.0088	0.0035
Earth	70046-02-12 22:19 G	27304879.20	27304879.43	27304879.67	0.0088	0.0039 *
Mercury	70046-02-20 08:53 G	27304886.73	27304886.87	27304887.04	0.0088	0.0036
Mercury	70046-05-19 11:17 G	27304974.84	27304974.97	27304975.13	0.0088	0.0045
Mercury	70046-08-15 13:55 G	27305062.96	27305063.08	27305063.22	0.0088	0.0054
Mercury	70046-11-11 16:19 G	27305151.08	27305151.18	27305151.31	0.0088	0.0063
Mercury	70047-02-07 18:58 G	27305239.20	27305239.29	27305239.39	0.0088	0.0072
Earth	70047-02-15 09:51 G	27305246.76	27305246.91	27305247.10	0.0088	0.0067
Moon	70047-02-15 11:46 G	27305246.87	27305246.99	27305247.17	0.0088	0.0072 *
Mercury	70047-05-06 21:07 G	27305327.34	27305327.38	27305327.46	0.0088	0.0082
Mars	70074-11-28 08:39 G	27315394.62	27315394.86	27315395.15	0.0089	0.0039
Jupiter	70089-02-18 00:43 G	27320590.28	27320590.53	27320590.92	0.0089	0.0073
Venus	70105-05-18 03:07 G	27326522.61	27326522.63	27326522.70	0.0090	0.0088
Venus	70105-12-29 16:34 G	27326748.12	27326748.19	27326748.29	0.0090	0.0082
Venus	70106-08-12 05:31 G	27326973.64	27326973.73	27326973.86	0.0090	0.0077
Venus	70107-03-25 18:43 G	27327199.17	27327199.28	27327199.44	0.0090	0.0071
Venus	70107-11-06 08:10 G	27327424.70	27327424.84	27327425.00	0.0090	0.0065
Venus	70108-06-18 21:22 G	27327650.24	27327650.39	27327650.57	0.0090	0.0059

Venus	70109-01-30 10:34 G	27327875.77	27327875.94	27327876.13	0.0090	0.0053
Venus	70109-09-13 00:00 G	27328101.31	27328101.50	27328101.68	0.0090	0.0047
Venus	70110-04-26 13:12 G	27328326.86	27328327.05	27328327.25	0.0090	0.0041
Venus	70110-12-08 02:10 G	27328552.40	27328552.59	27328552.81	0.0090	0.0036
Venus	70111-07-21 15:22 G	27328777.95	27328778.14	27328778.36	0.0090	0.0030
Venus	70112-03-03 04:34 G	27329003.49	27329003.69	27329003.92	0.0090	0.0024
Venus	70112-10-14 18:00 G	27329229.04	27329229.25	27329229.47	0.0090	0.0017
Venus	70113-05-28 07:27 G	27329454.60	27329454.81	27329455.03	0.0090	0.0011
Venus	70114-01-08 20:39 G	27329680.15	27329680.36	27329680.59	0.0090	0.0006
Venus	70114-08-22 10:05 G	27329905.70	27329905.92	27329906.14	0.0090	0.0001
Venus	70115-04-04 23:17 G	27330131.26	27330131.47	27330131.69	0.0090	0.0007
Venus	70115-11-16 12:43 G	27330356.81	27330357.03	27330357.25	0.0090	0.0013
Venus	70116-06-29 01:41 G	27330582.37	27330582.57	27330582.80	0.0090	0.0020
Venus	70117-02-09 14:53 G	27330807.93	27330808.12	27330808.35	0.0090	0.0026
Venus	70117-09-23 04:34 G	27331033.48	27331033.69	27331033.89	0.0090	0.0031
Venus	70118-05-06 17:31 G	27331259.05	27331259.23	27331259.45	0.0090	0.0038
Venus	70118-12-18 07:12 G	27331484.61	27331484.80	27331484.99	0.0090	0.0043
Venus	70119-07-31 20:24 G	27331710.17	27331710.35	27331710.53	0.0090	0.0049
Venus	70120-03-13 09:22 G	27331935.73	27331935.89	27331936.07	0.0090	0.0055
Venus	70120-10-24 22:34 G	27332161.29	27332161.44	27332161.61	0.0090	0.0061
Venus	70121-06-07 11:46 G	27332386.86	27332386.99	27332387.15	0.0090	0.0067
Venus	70122-01-19 00:58 G	27332612.43	27332612.54	27332612.69	0.0090	0.0073
Venus	70122-09-01 13:55 G	27332838.00	27332838.08	27332838.21	0.0090	0.0079
Venus	70123-04-15 03:36 G	27333063.59	27333063.65	27333063.74	0.0090	0.0084
Moon	70123-08-04 23:31 G	27333175.35	27333175.48	27333175.65	0.0090	0.0072
Earth	70123-08-05 02:24 G	27333175.48	27333175.60	27333175.76	0.0090	0.0075 *
Venus	70123-11-26 17:03 G	27333289.21	27333289.21	27333289.22	0.0090	0.0089
Mercury	70124-04-27 18:15 G	27333442.23	27333442.26	27333442.31	0.0090	0.0086
Mercury	70124-07-24 20:10 G	27333530.28	27333530.34	27333530.42	0.0089	0.0078
Earth	70124-08-06 13:41 G	27333542.86	27333543.07	27333543.30	0.0089	0.0046

Moon	70124-08-06 17:03 G	27333543.02	27333543.21	27333543.44	0.0089	0.0050	*
Mercury	70124-10-20 22:19 G	27333618.34	27333618.43	27333618.53	0.0089	0.0069	
Mercury	70125-01-17 00:00 G	27333706.41	27333706.50	27333706.63	0.0089	0.0061	
Mercury	70125-04-15 02:10 G	27333794.47	27333794.59	27333794.72	0.0089	0.0052	
Mercury	70125-07-12 04:05 G	27333882.55	27333882.67	27333882.81	0.0089	0.0043	
Moon	70125-08-08 21:51 G	27333910.17	27333910.41	27333910.67	0.0089	0.0015	
Earth	70125-08-09 01:12 G	27333910.31	27333910.55	27333910.81	0.0089	0.0017	*
Mercury	70125-10-08 06:00 G	27333970.62	27333970.75	27333970.90	0.0089	0.0035	
Mercury	70126-01-04 08:10 G	27334058.69	27334058.84	27334058.98	0.0089	0.0026	
Mercury	70126-04-02 10:05 G	27334146.77	27334146.92	27334147.07	0.0089	0.0017	
Mercury	70126-06-29 12:00 G	27334234.85	27334235.00	27334235.15	0.0089	0.0009	
Earth	70126-08-11 12:43 G	27334277.77	27334278.03	27334278.28	0.0089	0.0012	
Moon	70126-08-11 15:51 G	27334277.91	27334278.16	27334278.42	0.0089	0.0008	*
Mercury	70126-09-25 13:55 G	27334322.93	27334323.08	27334323.23	0.0089	0.0002	
Mercury	70126-12-22 15:36 G	27334411.01	27334411.15	27334411.30	0.0089	0.0009	
Mercury	70127-03-20 17:31 G	27334499.09	27334499.23	27334499.38	0.0089	0.0017	
Mercury	70127-06-16 19:27 G	27334587.17	27334587.31	27334587.45	0.0089	0.0025	
Moon	70127-08-13 21:36 G	27334645.19	27334645.40	27334645.62	0.0089	0.0044	
Earth	70127-08-14 00:00 G	27334645.28	27334645.50	27334645.74	0.0089	0.0040	*
Mercury	70127-09-12 21:07 G	27334675.25	27334675.38	27334675.53	0.0089	0.0034	
Mercury	70127-12-09 23:03 G	27334763.33	27334763.46	27334763.60	0.0089	0.0042	
Mercury	70128-03-07 00:58 G	27334851.42	27334851.54	27334851.66	0.0089	0.0050	
Mercury	70128-06-03 02:39 G	27334939.51	27334939.61	27334939.73	0.0089	0.0058	
Earth	70128-08-15 11:03 G	27335012.83	27335012.96	27335013.15	0.0089	0.0070	
Moon	70128-08-15 12:00 G	27335012.86	27335013.00	27335013.21	0.0089	0.0067	*
Mercury	70128-08-30 04:19 G	27335027.60	27335027.68	27335027.79	0.0089	0.0067	
Mercury	70128-11-26 06:15 G	27335115.69	27335115.76	27335115.85	0.0089	0.0075	
Mercury	70129-02-22 08:10 G	27335203.79	27335203.84	27335203.90	0.0089	0.0083	
Mars	70156-10-23 10:48 G	27345308.65	27345308.95	27345309.28	0.0088	0.0028	
Venus	70187-07-05 04:05 G	27356520.65	27356520.67	27356520.74	0.0088	0.0086	

Venus	70188-02-15 17:31 G	27356746.14	27356746.23	27356746.32	0.0088	0.0080
Venus	70188-09-28 06:00 G	27356971.66	27356971.75	27356971.89	0.0088	0.0075
Venus	70189-05-11 19:27 G	27357197.17	27357197.31	27357197.44	0.0088	0.0069
Venus	70189-12-23 07:55 G	27357422.69	27357422.83	27357422.99	0.0088	0.0064
Venus	70190-08-05 20:53 G	27357648.21	27357648.37	27357648.54	0.0088	0.0058
Venus	70191-03-19 09:36 G	27357873.74	27357873.90	27357874.09	0.0088	0.0053
Venus	70191-10-30 22:48 G	27358099.27	27358099.45	27358099.64	0.0088	0.0047
Venus	70192-06-12 11:46 G	27358324.80	27358324.99	27358325.19	0.0088	0.0041
Venus	70193-01-24 00:15 G	27358550.32	27358550.51	27358550.73	0.0088	0.0036
Venus	70193-09-06 13:12 G	27358775.85	27358776.05	27358776.27	0.0088	0.0030
Venus	70194-04-20 02:10 G	27359001.38	27359001.59	27359001.81	0.0088	0.0024
Venus	70194-12-01 14:53 G	27359226.91	27359227.12	27359227.34	0.0088	0.0019
Venus	70195-07-15 03:36 G	27359452.44	27359452.65	27359452.88	0.0088	0.0013
Venus	70196-02-25 16:34 G	27359677.97	27359678.19	27359678.41	0.0088	0.0007
Venus	70196-10-08 05:31 G	27359903.50	27359903.73	27359903.95	0.0088	0.0002
Venus	70197-05-21 18:15 G	27360129.04	27360129.26	27360129.48	0.0088	0.0005
Venus	70198-01-02 06:43 G	27360354.57	27360354.78	27360355.01	0.0088	0.0011
Venus	70198-08-15 19:27 G	27360580.10	27360580.31	27360580.53	0.0088	0.0016
Venus	70199-03-29 08:10 G	27360805.63	27360805.84	27360806.06	0.0088	0.0022
Venus	70199-11-09 20:53 G	27361031.17	27361031.37	27361031.59	0.0088	0.0028
Venus	70200-06-23 09:51 G	27361256.71	27361256.91	27361257.12	0.0088	0.0033
Venus	70201-02-03 22:19 G	27361482.25	27361482.43	27361482.64	0.0088	0.0039
Venus	70201-09-17 11:03 G	27361707.78	27361707.96	27361708.17	0.0088	0.0045
Venus	70202-05-01 00:00 G	27361933.33	27361933.50	27361933.69	0.0088	0.0050
Venus	70202-12-12 12:43 G	27362158.87	27362159.03	27362159.22	0.0088	0.0056
Venus	70203-07-26 01:41 G	27362384.42	27362384.57	27362384.73	0.0088	0.0061
Venus	70204-03-07 14:10 G	27362609.97	27362610.09	27362610.25	0.0088	0.0067
Venus	70204-10-19 03:22 G	27362835.52	27362835.64	27362835.77	0.0088	0.0072
Venus	70205-06-01 15:51 G	27363061.08	27363061.16	27363061.28	0.0088	0.0078
Venus	70206-01-13 04:48 G	27363286.64	27363286.70	27363286.78	0.0088	0.0083



Earth	70206-02-05 05:31 G	27363309.70	27363309.73	27363309.83	0.0088	0.0085
Moon	70206-02-05 09:22 G	27363309.86	27363309.89	27363309.97	0.0088	0.0086
Moon	70207-02-07 14:10 G	27363676.92	27363677.09	27363677.32	0.0088	0.0057
Earth	70207-02-07 18:00 G	27363677.07	27363677.25	27363677.46	0.0088	0.0057 *
Mercury	70207-07-04 22:34 G	27363824.39	27363824.44	27363824.49	0.0088	0.0083
Mercury	70207-10-01 00:29 G	27363912.45	27363912.52	27363912.62	0.0088	0.0075
Mercury	70207-12-28 03:07 G	27364000.52	27364000.63	27364000.74	0.0088	0.0066
Earth	70208-02-10 06:00 G	27364044.51	27364044.75	27364045.00	0.0088	0.0029
Moon	70208-02-10 09:22 G	27364044.65	27364044.89	27364045.15	0.0088	0.0029 *
Mercury	70208-03-25 05:03 G	27364088.61	27364088.71	27364088.85	0.0088	0.0058
Mercury	70208-06-21 07:41 G	27364176.69	27364176.82	27364176.96	0.0088	0.0049
Mercury	70208-09-17 10:05 G	27364264.78	27364264.92	27364265.07	0.0088	0.0040
Mercury	70208-12-14 12:29 G	27364352.87	27364353.02	27364353.18	0.0088	0.0031
Moon	70209-02-11 15:51 G	27364411.91	27364412.16	27364412.42	0.0088	0.0001
Earth	70209-02-11 18:00 G	27364411.99	27364412.25	27364412.52	0.0088	0.0002 *
Mercury	70209-03-12 14:39 G	27364440.96	27364441.11	27364441.28	0.0088	0.0023
Mercury	70209-06-08 17:17 G	27364529.06	27364529.22	27364529.39	0.0088	0.0014
Mercury	70209-09-04 19:41 G	27364617.16	27364617.32	27364617.49	0.0088	0.0005
Mercury	70209-12-01 22:05 G	27364705.26	27364705.42	27364705.59	0.0088	0.0004
Earth	70210-02-14 05:46 G	27364779.50	27364779.74	27364780.00	0.0088	0.0027
Moon	70210-02-14 07:27 G	27364779.57	27364779.81	27364780.08	0.0088	0.0027 *
Mercury	70210-02-28 00:29 G	27364793.36	27364793.52	27364793.69	0.0088	0.0013
Mercury	70210-05-27 02:53 G	27364881.46	27364881.62	27364881.79	0.0088	0.0022
Mercury	70210-08-23 05:31 G	27364969.57	27364969.73	27364969.88	0.0088	0.0031
Mercury	70210-11-19 07:55 G	27365057.68	27365057.83	27365057.98	0.0088	0.0040
Mercury	70211-02-15 10:19 G	27365145.79	27365145.93	27365146.07	0.0088	0.0049
Moon	70211-02-16 17:17 G	27365147.03	27365147.22	27365147.43	0.0088	0.0054
Earth	70211-02-16 17:46 G	27365147.04	27365147.24	27365147.45	0.0088	0.0054 *
Mercury	70211-05-14 12:29 G	27365233.91	27365234.02	27365234.16	0.0088	0.0059
Mercury	70211-08-10 14:53 G	27365322.03	27365322.12	27365322.25	0.0088	0.0068

Mercury	70211-11-06 17:31 G	27365410.16	27365410.23	27365410.32	0.0088	0.0077
Mercury	70212-02-02 20:10 G	27365498.32	27365498.34	27365498.38	0.0088	0.0086
Moon	70212-02-19 04:05 G	27365514.58	27365514.67	27365514.78	0.0088	0.0081
Earth	70212-02-19 05:17 G	27365514.65	27365514.72	27365514.83	0.0088	0.0082 *
Mars	70240-06-08 14:10 G	27375851.86	27375852.09	27375852.37	0.0089	0.0045
Venus	70269-08-20 13:27 G	27386517.03	27386517.06	27386517.11	0.0090	0.0088
Venus	70270-04-03 02:24 G	27386742.54	27386742.60	27386742.71	0.0090	0.0083
Venus	70270-11-14 15:36 G	27386968.06	27386968.15	27386968.29	0.0090	0.0077
Venus	70271-06-28 05:03 G	27387193.59	27387193.71	27387193.86	0.0090	0.0071
Venus	70272-02-08 18:15 G	27387419.12	27387419.26	27387419.42	0.0090	0.0065
Venus	70272-09-21 07:27 G	27387644.65	27387644.81	27387644.98	0.0090	0.0059
Venus	70273-05-04 20:53 G	27387870.20	27387870.37	27387870.55	0.0090	0.0053
Venus	70273-12-16 10:05 G	27388095.73	27388095.92	27388096.11	0.0090	0.0047
Venus	70274-07-29 22:48 G	27388321.27	27388321.45	27388321.66	0.0090	0.0042
Venus	70275-03-12 12:00 G	27388546.82	27388547.00	27388547.22	0.0090	0.0036
Venus	70275-10-24 01:12 G	27388772.36	27388772.55	27388772.77	0.0090	0.0030
Venus	70276-06-05 14:53 G	27388997.91	27388998.12	27388998.33	0.0090	0.0023
Venus	70277-01-17 04:05 G	27389223.45	27389223.67	27389223.88	0.0090	0.0017
Venus	70277-08-30 17:17 G	27389449.00	27389449.22	27389449.44	0.0090	0.0011
Venus	70278-04-13 06:29 G	27389674.56	27389674.77	27389674.99	0.0090	0.0005
Venus	70278-11-24 19:55 G	27389900.11	27389900.33	27389900.55	0.0090	0.0001
Venus	70279-07-08 09:07 G	27390125.66	27390125.88	27390126.10	0.0090	0.0007
Venus	70280-02-18 22:19 G	27390351.22	27390351.43	27390351.65	0.0090	0.0013
Venus	70280-10-01 11:31 G	27390576.77	27390576.98	27390577.20	0.0090	0.0020
Venus	70281-05-15 00:58 G	27390802.34	27390802.54	27390802.76	0.0090	0.0026
Venus	70281-12-26 14:10 G	27391027.90	27391028.09	27391028.31	0.0090	0.0032
Venus	70282-08-09 03:22 G	27391253.45	27391253.64	27391253.85	0.0090	0.0038
Venus	70283-03-22 16:34 G	27391479.02	27391479.19	27391479.40	0.0090	0.0044
Venus	70283-11-03 06:00 G	27391704.58	27391704.75	27391704.94	0.0090	0.0050
Venus	70284-06-15 19:12 G	27391930.15	27391930.30	27391930.49	0.0090	0.0056

Venus	70285-01-27 08:24 G	27392155.71	27392155.85	27392156.03	0.0090	0.0062
Venus	70285-09-09 21:36 G	27392381.28	27392381.40	27392381.56	0.0090	0.0068
Venus	70286-04-23 10:48 G	27392606.85	27392606.95	27392607.10	0.0090	0.0074
Venus	70286-12-05 00:29 G	27392832.43	27392832.52	27392832.63	0.0090	0.0079
Venus	70287-07-18 13:41 G	27393058.01	27393058.07	27393058.15	0.0090	0.0085
Earth	70287-08-05 11:03 G	27393075.94	27393075.96	27393076.04	0.0090	0.0088
Moon	70287-08-05 14:24 G	27393076.04	27393076.10	27393076.22	0.0090	0.0084 *
Moon	70288-08-06 19:27 G	27393443.14	27393443.31	27393443.49	0.0090	0.0063
Earth	70288-08-06 22:48 G	27393443.27	27393443.45	27393443.66	0.0090	0.0059 *
Mercury	70289-01-23 17:31 G	27393613.18	27393613.23	27393613.30	0.0089	0.0082
Mercury	70289-04-21 19:41 G	27393701.23	27393701.32	27393701.41	0.0089	0.0073
Mercury	70289-07-18 21:22 G	27393789.30	27393789.39	27393789.51	0.0089	0.0065
Earth	70289-08-09 09:51 G	27393810.69	27393810.91	27393811.17	0.0089	0.0031
Moon	70289-08-09 12:58 G	27393810.79	27393811.04	27393811.29	0.0089	0.0026 *
Mercury	70289-10-14 23:31 G	27393877.37	27393877.48	27393877.60	0.0089	0.0056
Mercury	70290-01-11 01:12 G	27393965.44	27393965.55	27393965.69	0.0089	0.0048
Mercury	70290-04-09 03:22 G	27394053.51	27394053.64	27394053.78	0.0089	0.0038
Mercury	70290-07-06 05:31 G	27394141.59	27394141.73	27394141.87	0.0089	0.0030
Moon	70290-08-11 19:41 G	27394178.07	27394178.32	27394178.57	0.0089	0.0005
Earth	70290-08-11 21:36 G	27394178.15	27394178.40	27394178.66	0.0089	0.0002 *
Mercury	70290-10-02 07:12 G	27394229.66	27394229.80	27394229.95	0.0089	0.0022
Mercury	70290-12-29 09:22 G	27394317.74	27394317.89	27394318.04	0.0089	0.0013
Mercury	70291-03-27 11:17 G	27394405.82	27394405.97	27394406.12	0.0089	0.0005
Mercury	70291-06-23 12:58 G	27394493.90	27394494.04	27394494.19	0.0089	0.0005
Earth	70291-08-14 08:39 G	27394545.63	27394545.86	27394546.12	0.0089	0.0028
Moon	70291-08-14 09:51 G	27394545.68	27394545.91	27394546.17	0.0089	0.0031 *
Mercury	70291-09-19 14:53 G	27394581.98	27394582.12	27394582.27	0.0089	0.0013
Mercury	70291-12-16 16:48 G	27394670.06	27394670.20	27394670.35	0.0089	0.0021
Mercury	70292-03-13 18:43 G	27394758.14	27394758.28	27394758.42	0.0089	0.0029
Mercury	70292-06-09 20:39 G	27394846.22	27394846.36	27394846.49	0.0089	0.0038

Earth	70292-08-15 19:55 G	27394913.15	27394913.33	27394913.55	0.0089	0.0056
Moon	70292-08-15 20:39 G	27394913.18	27394913.36	27394913.58	0.0089	0.0052 *
Mercury	70292-09-05 22:19 G	27394934.31	27394934.43	27394934.56	0.0089	0.0046
Mercury	70292-12-03 00:00 G	27395022.40	27395022.50	27395022.63	0.0089	0.0055
Mercury	70293-03-01 01:55 G	27395110.48	27395110.58	27395110.69	0.0089	0.0063
Mercury	70293-05-28 03:51 G	27395198.58	27395198.66	27395198.75	0.0089	0.0071
Moon	70293-08-18 06:15 G	27395280.72	27395280.76	27395280.81	0.0089	0.0088
Earth	70293-08-18 07:27 G	27395280.75	27395280.81	27395280.91	0.0089	0.0085 *
Mercury	70293-08-24 05:17 G	27395286.67	27395286.72	27395286.81	0.0089	0.0080
Mercury	70293-11-20 07:12 G	27395374.79	27395374.80	27395374.85	0.0089	0.0088
Mars	70320-06-08 06:00 G	27405070.46	27405070.75	27405071.06	0.0088	0.0040
Jupiter	70331-08-02 14:10 G	27409142.77	27409143.09	27409143.49	0.0088	0.0065
Venus	70351-10-08 14:24 G	27416515.07	27416515.10	27416515.15	0.0088	0.0086
Venus	70352-05-21 02:53 G	27416740.56	27416740.62	27416740.73	0.0088	0.0081
Venus	70353-01-01 16:05 G	27416966.07	27416966.17	27416966.29	0.0088	0.0075
Venus	70353-08-15 04:34 G	27417191.58	27417191.69	27417191.84	0.0088	0.0070
Venus	70354-03-28 17:31 G	27417417.10	27417417.23	27417417.40	0.0088	0.0064
Venus	70354-11-09 06:29 G	27417642.62	27417642.77	27417642.95	0.0088	0.0059
Venus	70355-06-22 19:27 G	27417868.15	27417868.31	27417868.50	0.0088	0.0053
Venus	70356-02-03 08:24 G	27418093.67	27418093.85	27418094.04	0.0088	0.0047
Venus	70356-09-15 21:07 G	27418319.20	27418319.38	27418319.59	0.0088	0.0042
Venus	70357-04-29 10:05 G	27418544.73	27418544.92	27418545.13	0.0088	0.0036
Venus	70357-12-10 23:03 G	27418770.26	27418770.46	27418770.68	0.0088	0.0030
Venus	70358-07-24 12:00 G	27418995.79	27418996.00	27418996.21	0.0088	0.0024
Venus	70359-03-07 00:43 G	27419221.32	27419221.53	27419221.75	0.0088	0.0018
Venus	70359-10-18 13:41 G	27419446.86	27419447.07	27419447.30	0.0088	0.0013
Venus	70360-05-31 02:39 G	27419672.39	27419672.61	27419672.83	0.0088	0.0007
Venus	70361-01-11 15:22 G	27419897.92	27419898.14	27419898.36	0.0088	0.0001
Venus	70361-08-25 04:05 G	27420123.45	27420123.67	27420123.89	0.0088	0.0005
Venus	70362-04-07 16:48 G	27420348.98	27420349.20	27420349.42	0.0088	0.0011

Venus	70362-11-19 05:31 G	27420574.52	27420574.73	27420574.96	0.0088	0.0017
Venus	70363-07-02 18:29 G	27420800.06	27420800.27	27420800.49	0.0088	0.0022
Venus	70364-02-13 06:58 G	27421025.59	27421025.79	27421026.01	0.0088	0.0028
Venus	70364-09-25 19:41 G	27421251.13	27421251.32	27421251.54	0.0088	0.0034
Venus	70365-05-09 08:39 G	27421476.67	27421476.86	27421477.06	0.0088	0.0039
Venus	70365-12-20 21:22 G	27421702.21	27421702.39	27421702.59	0.0088	0.0045
Venus	70366-08-03 09:51 G	27421927.75	27421927.91	27421928.11	0.0088	0.0051
Venus	70367-03-16 23:03 G	27422153.29	27422153.46	27422153.63	0.0088	0.0056
Venus	70367-10-28 11:31 G	27422378.84	27422378.98	27422379.15	0.0088	0.0062
Venus	70368-06-10 00:00 G	27422604.39	27422604.50	27422604.67	0.0088	0.0068
Venus	70369-01-21 13:12 G	27422829.94	27422830.05	27422830.18	0.0088	0.0073
Venus	70369-09-04 01:27 G	27423055.49	27423055.56	27423055.68	0.0088	0.0079
Venus	70370-04-17 14:39 G	27423281.06	27423281.11	27423281.18	0.0088	0.0084
Earth	70371-02-08 00:43 G	27423577.40	27423577.53	27423577.71	0.0088	0.0070
Moon	70371-02-08 03:51 G	27423577.53	27423577.66	27423577.82	0.0088	0.0074 *
Mercury	70372-01-03 18:43 G	27423907.28	27423907.28	27423907.30	0.0088	0.0088
Moon	70372-02-10 10:48 G	27423944.74	27423944.95	27423945.20	0.0088	0.0038
Earth	70372-02-10 13:12 G	27423944.83	27423945.05	27423945.29	0.0088	0.0042 *
Mercury	70372-03-31 20:53 G	27423995.32	27423995.37	27423995.46	0.0088	0.0079
Mercury	70372-06-27 23:31 G	27424083.39	27424083.48	27424083.58	0.0088	0.0070
Mercury	70372-09-24 01:41 G	27424171.46	27424171.57	27424171.69	0.0088	0.0062
Mercury	70372-12-21 04:05 G	27424259.55	27424259.67	27424259.81	0.0088	0.0053
Earth	70373-02-12 01:27 G	27424312.30	27424312.56	27424312.82	0.0088	0.0014
Moon	70373-02-12 01:55 G	27424312.32	27424312.58	27424312.85	0.0088	0.0019 *
Mercury	70373-03-19 06:29 G	27424347.63	27424347.77	27424347.91	0.0088	0.0044
Mercury	70373-06-15 08:39 G	27424435.72	27424435.86	27424436.02	0.0088	0.0036
Mercury	70373-09-11 11:03 G	27424523.81	27424523.96	27424524.13	0.0088	0.0027
Mercury	70373-12-08 13:41 G	27424611.91	27424612.07	27424612.23	0.0088	0.0018
Earth	70374-02-14 13:12 G	27424679.80	27424680.05	27424680.31	0.0088	0.0014
Moon	70374-02-14 13:27 G	27424679.82	27424680.06	27424680.32	0.0088	0.0018 *

Mercury	70374-03-06 16:05 G	27424700.00	27424700.17	27424700.33	0.0088	0.0009
Mercury	70374-06-02 18:29 G	27424788.10	27424788.27	27424788.43	0.0088	0.0001
Mercury	70374-08-29 20:53 G	27424876.20	27424876.37	27424876.53	0.0088	0.0009
Mercury	70374-11-25 23:03 G	27424964.30	27424964.46	27424964.63	0.0088	0.0018
Moon	70375-02-16 23:17 G	27425047.25	27425047.47	27425047.74	0.0088	0.0037
Earth	70375-02-17 01:12 G	27425047.32	27425047.55	27425047.78	0.0088	0.0041 *
Mercury	70375-02-22 01:27 G	27425052.41	27425052.56	27425052.73	0.0088	0.0027
Mercury	70375-05-21 03:51 G	27425140.52	27425140.66	27425140.82	0.0088	0.0036
Mercury	70375-08-17 06:15 G	27425228.63	27425228.76	27425228.92	0.0088	0.0045
Mercury	70375-11-13 08:39 G	27425316.74	27425316.86	27425317.01	0.0088	0.0054
Mercury	70376-02-09 11:17 G	27425404.86	27425404.97	27425405.09	0.0088	0.0063
Earth	70376-02-19 12:29 G	27425414.88	27425415.02	27425415.20	0.0088	0.0069
Moon	70376-02-19 15:07 G	27425415.02	27425415.13	27425415.30	0.0088	0.0074 *
Mercury	70376-05-07 13:41 G	27425492.99	27425493.07	27425493.18	0.0088	0.0072
Mercury	70376-08-03 16:19 G	27425581.12	27425581.18	27425581.25	0.0088	0.0081
Mars	70404-01-23 19:41 G	27435615.03	27435615.32	27435615.62	0.0089	0.0017
Venus	70433-11-22 22:48 G	27446511.44	27446511.45	27446511.50	0.0090	0.0089
Venus	70434-07-06 12:15 G	27446736.94	27446737.01	27446737.10	0.0090	0.0083
Venus	70435-02-17 01:27 G	27446962.46	27446962.56	27446962.68	0.0090	0.0077
Venus	70435-09-30 14:24 G	27447187.99	27447188.10	27447188.25	0.0090	0.0072
Venus	70436-05-13 03:36 G	27447413.53	27447413.65	27447413.82	0.0090	0.0066
Venus	70436-12-24 17:03 G	27447639.06	27447639.21	27447639.39	0.0090	0.0060
Venus	70437-08-07 06:15 G	27447864.60	27447864.76	27447864.95	0.0090	0.0054
Venus	70438-03-20 19:27 G	27448090.14	27448090.31	27448090.51	0.0090	0.0048
Venus	70438-11-01 08:39 G	27448315.68	27448315.86	27448316.07	0.0090	0.0042
Venus	70439-06-14 21:51 G	27448541.23	27448541.41	27448541.63	0.0090	0.0036
Venus	70440-01-26 11:03 G	27448766.77	27448766.96	27448767.18	0.0090	0.0030
Venus	70440-09-08 00:15 G	27448992.31	27448992.51	27448992.73	0.0090	0.0024
Venus	70441-04-21 13:55 G	27449217.86	27449218.08	27449218.29	0.0090	0.0017
Venus	70441-12-03 03:07 G	27449443.41	27449443.63	27449443.84	0.0090	0.0011

Venus	70442-07-16 16:19 G	27449668.96	27449669.18	27449669.39	0.0090	0.0005
Venus	70443-02-27 05:17 G	27449894.51	27449894.72	27449894.94	0.0090	0.0002
Venus	70443-10-10 18:29 G	27450120.06	27450120.27	27450120.49	0.0090	0.0008
Venus	70444-05-23 07:55 G	27450345.62	27450345.83	27450346.05	0.0090	0.0014
Venus	70445-01-03 21:07 G	27450571.17	27450571.38	27450571.60	0.0090	0.0020
Venus	70445-08-17 10:19 G	27450796.73	27450796.93	27450797.15	0.0090	0.0026
Venus	70446-03-30 23:46 G	27451022.29	27451022.49	27451022.70	0.0090	0.0032
Venus	70446-11-11 12:58 G	27451247.85	27451248.04	27451248.25	0.0090	0.0038
Venus	70447-06-25 02:24 G	27451473.41	27451473.60	27451473.79	0.0090	0.0044
Venus	70448-02-05 15:36 G	27451698.98	27451699.15	27451699.34	0.0090	0.0050
Venus	70448-09-18 04:48 G	27451924.54	27451924.70	27451924.88	0.0090	0.0056
Venus	70449-05-01 18:15 G	27452150.11	27452150.26	27452150.42	0.0090	0.0062
Venus	70449-12-13 07:27 G	27452375.68	27452375.81	27452375.96	0.0090	0.0068
Venus	70450-07-26 20:39 G	27452601.25	27452601.36	27452601.50	0.0090	0.0074
Venus	70451-03-09 09:51 G	27452826.83	27452826.91	27452827.02	0.0090	0.0080
Venus	70451-10-20 22:48 G	27453052.41	27453052.45	27453052.54	0.0090	0.0086
Earth	70452-08-07 07:12 G	27453343.65	27453343.80	27453343.95	0.0090	0.0072
Moon	70452-08-07 09:36 G	27453343.76	27453343.90	27453344.09	0.0090	0.0070 *
Mercury	70453-07-25 14:24 G	27453696.08	27453696.10	27453696.15	0.0090	0.0087
Moon	70453-08-09 16:48 G	27453711.01	27453711.20	27453711.43	0.0090	0.0046
Earth	70453-08-09 18:15 G	27453711.05	27453711.26	27453711.50	0.0090	0.0044 *
Mercury	70453-10-21 16:34 G	27453784.12	27453784.19	27453784.27	0.0090	0.0078
Mercury	70454-01-17 18:29 G	27453872.18	27453872.27	27453872.37	0.0090	0.0069
Mercury	70454-04-15 20:24 G	27453960.25	27453960.35	27453960.47	0.0090	0.0060
Mercury	70454-07-12 22:34 G	27454048.32	27454048.44	27454048.57	0.0090	0.0052
Earth	70454-08-12 05:46 G	27454078.49	27454078.74	27454078.99	0.0089	0.0015
Moon	70454-08-12 05:46 G	27454078.49	27454078.74	27454079.01	0.0089	0.0014 *
Mercury	70454-10-09 00:29 G	27454136.39	27454136.52	27454136.66	0.0089	0.0043
Mercury	70455-01-05 02:24 G	27454224.47	27454224.60	27454224.75	0.0089	0.0034
Mercury	70455-04-03 04:34 G	27454312.54	27454312.69	27454312.83	0.0089	0.0026

Mercury	70455-06-30 06:15 G	27454400.62	27454400.76	27454400.91	0.0089	0.0018
Earth	70455-08-14 17:03 G	27454445.96	27454446.21	27454446.46	0.0089	0.0014
Moon	70455-08-14 17:31 G	27454445.99	27454446.23	27454446.48	0.0089	0.0012 *
Mercury	70455-09-26 08:24 G	27454488.70	27454488.85	27454489.00	0.0089	0.0009
Mercury	70455-12-23 10:19 G	27454576.78	27454576.93	27454577.08	0.0089	0.0002
Mercury	70456-03-20 12:00 G	27454664.86	27454665.00	27454665.15	0.0089	0.0009
Mercury	70456-06-16 13:55 G	27454752.94	27454753.08	27454753.23	0.0089	0.0017
Moon	70456-08-16 01:55 G	27454813.35	27454813.58	27454813.81	0.0089	0.0044
Earth	70456-08-16 03:51 G	27454813.46	27454813.66	27454813.91	0.0089	0.0043 *
Mercury	70456-09-12 15:51 G	27454841.02	27454841.16	27454841.31	0.0089	0.0025
Mercury	70456-12-09 17:46 G	27454929.10	27454929.24	27454929.38	0.0089	0.0033
Mercury	70457-03-07 19:41 G	27455017.19	27455017.32	27455017.45	0.0089	0.0042
Mercury	70457-06-03 21:07 G	27455105.27	27455105.38	27455105.52	0.0089	0.0051
Earth	70457-08-18 15:36 G	27455181.00	27455181.15	27455181.30	0.0089	0.0071
Moon	70457-08-18 18:00 G	27455181.12	27455181.25	27455181.43	0.0089	0.0069 *
Mercury	70457-08-30 23:03 G	27455193.36	27455193.46	27455193.58	0.0089	0.0059
Mercury	70457-11-27 00:58 G	27455281.45	27455281.54	27455281.65	0.0089	0.0067
Mercury	70458-02-23 02:53 G	27455369.55	27455369.62	27455369.71	0.0089	0.0075
Mercury	70458-05-22 04:48 G	27455457.65	27455457.70	27455457.75	0.0089	0.0083
Mars	70485-12-16 17:03 G	27465527.96	27465528.21	27465528.49	0.0088	0.0053
Jupiter	70497-10-04 04:19 G	27469837.20	27469837.68	27469838.20	0.0088	0.0034
Venus	70516-01-10 23:46 G	27476509.48	27476509.49	27476509.55	0.0088	0.0087
Venus	70516-08-23 12:43 G	27476734.97	27476735.03	27476735.13	0.0088	0.0081
Venus	70517-04-06 01:27 G	27476960.47	27476960.56	27476960.70	0.0088	0.0076
Venus	70517-11-17 14:39 G	27477185.99	27477186.11	27477186.25	0.0088	0.0070
Venus	70518-07-01 03:36 G	27477411.51	27477411.65	27477411.80	0.0088	0.0064
Venus	70519-02-11 16:05 G	27477637.02	27477637.17	27477637.35	0.0088	0.0059
Venus	70519-09-25 05:03 G	27477862.55	27477862.71	27477862.90	0.0088	0.0053
Venus	70520-05-07 18:15 G	27478088.07	27478088.26	27478088.44	0.0088	0.0047
Venus	70520-12-19 06:29 G	27478313.60	27478313.77	27478313.99	0.0088	0.0042



Venus	70521-08-01 19:27 G	27478539.12	27478539.31	27478539.53	0.0088	0.0036
Venus	70522-03-15 08:24 G	27478764.65	27478764.85	27478765.07	0.0088	0.0030
Venus	70522-10-26 21:36 G	27478990.19	27478990.40	27478990.61	0.0088	0.0024
Venus	70523-06-09 10:05 G	27479215.72	27479215.92	27479216.15	0.0088	0.0019
Venus	70524-01-20 23:03 G	27479441.25	27479441.46	27479441.69	0.0088	0.0013
Venus	70524-09-02 12:00 G	27479666.78	27479667.00	27479667.22	0.0088	0.0007
Venus	70525-04-16 00:43 G	27479892.31	27479892.53	27479892.75	0.0088	0.0002
Venus	70525-11-27 13:41 G	27480117.85	27480118.07	27480118.29	0.0088	0.0005
Venus	70526-07-11 02:24 G	27480343.38	27480343.60	27480343.82	0.0088	0.0011
Venus	70527-02-21 15:07 G	27480568.92	27480569.13	27480569.35	0.0088	0.0017
Venus	70527-10-05 03:51 G	27480794.45	27480794.66	27480794.88	0.0088	0.0023
Venus	70528-05-17 16:48 G	27481019.99	27481020.20	27481020.41	0.0088	0.0028
Venus	70528-12-29 05:17 G	27481245.53	27481245.72	27481245.93	0.0088	0.0034
Venus	70529-08-11 18:00 G	27481471.06	27481471.25	27481471.46	0.0088	0.0040
Venus	70530-03-25 06:29 G	27481696.60	27481696.77	27481696.98	0.0088	0.0046
Venus	70530-11-05 19:41 G	27481922.15	27481922.32	27481922.50	0.0088	0.0051
Venus	70531-06-19 08:10 G	27482147.69	27482147.84	27482148.02	0.0088	0.0057
Venus	70532-01-30 20:39 G	27482373.23	27482373.36	27482373.54	0.0088	0.0063
Venus	70532-09-12 09:36 G	27482598.77	27482598.90	27482599.05	0.0088	0.0068
Venus	70533-04-25 22:05 G	27482824.33	27482824.42	27482824.56	0.0088	0.0074
Venus	70533-12-07 11:17 G	27483049.89	27483049.97	27483050.08	0.0088	0.0079
Venus	70534-07-20 23:46 G	27483275.46	27483275.49	27483275.57	0.0088	0.0085
Moon	70535-02-08 05:46 G	27483477.70	27483477.74	27483477.82	0.0088	0.0085
Earth	70535-02-08 06:43 G	27483477.73	27483477.78	27483477.90	0.0088	0.0083 *
Earth	70536-02-10 19:12 G	27483845.11	27483845.30	27483845.52	0.0088	0.0055
Moon	70536-02-10 19:27 G	27483845.12	27483845.31	27483845.55	0.0088	0.0054 *
Mercury	70536-09-30 17:03 G	27484078.18	27484078.21	27484078.28	0.0088	0.0084
Mercury	70536-12-27 19:41 G	27484166.24	27484166.32	27484166.41	0.0088	0.0075
Earth	70537-02-12 07:41 G	27484212.57	27484212.82	27484213.07	0.0088	0.0027
Moon	70537-02-12 08:24 G	27484212.63	27484212.85	27484213.11	0.0088	0.0030 *

Mercury	70537-03-25 21:36 G	27484254.31	27484254.40	27484254.53	0.0088	0.0067
Mercury	70537-06-22 00:15 G	27484342.39	27484342.51	27484342.64	0.0088	0.0058
Mercury	70537-09-18 02:39 G	27484430.48	27484430.61	27484430.75	0.0088	0.0049
Mercury	70537-12-15 04:48 G	27484518.56	27484518.70	27484518.86	0.0088	0.0041
Moon	70538-02-14 17:17 G	27484579.96	27484580.22	27484580.49	0.0088	0.0003
Earth	70538-02-14 19:41 G	27484580.06	27484580.32	27484580.58	0.0088	0.0001 *
Mercury	70538-03-13 07:12 G	27484606.65	27484606.80	27484606.96	0.0088	0.0032
Mercury	70538-06-09 09:36 G	27484694.75	27484694.90	27484695.07	0.0088	0.0023
Mercury	70538-09-05 12:00 G	27484782.84	27484783.00	27484783.17	0.0088	0.0014
Mercury	70538-12-02 14:24 G	27484870.94	27484871.10	27484871.27	0.0088	0.0006
Earth	70539-02-17 07:27 G	27484947.57	27484947.81	27484948.06	0.0088	0.0028
Moon	70539-02-17 10:19 G	27484947.69	27484947.93	27484948.17	0.0088	0.0027 *
Mercury	70539-02-28 16:48 G	27484959.04	27484959.20	27484959.37	0.0088	0.0004
Mercury	70539-05-27 19:12 G	27485047.14	27485047.30	27485047.47	0.0088	0.0013
Mercury	70539-08-23 21:36 G	27485135.24	27485135.40	27485135.57	0.0088	0.0022
Mercury	70539-11-19 23:46 G	27485223.35	27485223.49	27485223.66	0.0088	0.0031
Mercury	70540-02-16 02:10 G	27485311.46	27485311.59	27485311.76	0.0088	0.0040
Moon	70540-02-19 15:22 G	27485314.97	27485315.14	27485315.36	0.0088	0.0058
Earth	70540-02-19 19:12 G	27485315.12	27485315.30	27485315.52	0.0088	0.0056 *
Mercury	70540-05-14 04:34 G	27485399.57	27485399.69	27485399.85	0.0088	0.0049
Mercury	70540-08-10 07:12 G	27485487.68	27485487.80	27485487.94	0.0088	0.0058
Mercury	70540-11-06 09:36 G	27485575.80	27485575.90	27485576.02	0.0088	0.0067
Mercury	70541-02-02 12:00 G	27485663.93	27485664.00	27485664.10	0.0088	0.0076
Earth	70541-02-21 07:27 G	27485682.73	27485682.81	27485682.89	0.0088	0.0083
Moon	70541-02-21 10:34 G	27485682.87	27485682.94	27485683.05	0.0088	0.0082 *
Mercury	70541-05-01 14:39 G	27485752.08	27485752.11	27485752.16	0.0088	0.0085
Mars	70567-09-08 22:48 G	27495378.33	27495378.45	27495378.59	0.0089	0.0079
Mars	70569-08-02 21:51 G	27496072.23	27496072.41	27496072.64	0.0089	0.0064
Venus	70598-02-25 07:41 G	27506505.82	27506505.82	27506505.85	0.0090	0.0090
Venus	70598-10-08 20:39 G	27506731.31	27506731.36	27506731.46	0.0090	0.0084

Venus	70599-05-22 10:05 G	27506956.83	27506956.92	27506957.04	0.0090	0.0078
Venus	70600-01-02 23:31 G	27507182.36	27507182.48	27507182.61	0.0090	0.0072
Venus	70600-08-16 12:43 G	27507407.89	27507408.03	27507408.18	0.0090	0.0066
Venus	70601-03-30 01:55 G	27507633.43	27507633.58	27507633.75	0.0090	0.0060
Venus	70601-11-10 15:22 G	27507858.97	27507859.14	27507859.32	0.0090	0.0054
Venus	70602-06-24 04:34 G	27508084.51	27508084.69	27508084.88	0.0090	0.0048
Venus	70603-02-04 17:46 G	27508310.05	27508310.24	27508310.44	0.0090	0.0042
Venus	70603-09-18 06:58 G	27508535.59	27508535.79	27508535.99	0.0090	0.0036
Venus	70604-04-30 20:10 G	27508761.14	27508761.34	27508761.56	0.0090	0.0030
Venus	70604-12-12 09:22 G	27508986.69	27508986.89	27508987.11	0.0090	0.0024
Venus	70605-07-25 22:34 G	27509212.23	27509212.44	27509212.66	0.0090	0.0018
Venus	70606-03-08 11:46 G	27509437.78	27509437.99	27509438.21	0.0090	0.0012
Venus	70606-10-20 00:58 G	27509663.33	27509663.54	27509663.77	0.0090	0.0006
Venus	70607-06-02 14:24 G	27509888.88	27509889.10	27509889.32	0.0090	0.0001
Venus	70608-01-14 03:36 G	27510114.43	27510114.65	27510114.87	0.0090	0.0007
Venus	70608-08-26 16:34 G	27510339.99	27510340.19	27510340.42	0.0090	0.0014
Venus	70609-04-09 06:00 G	27510565.54	27510565.75	27510565.97	0.0090	0.0020
Venus	70609-11-20 19:12 G	27510791.10	27510791.30	27510791.52	0.0090	0.0026
Venus	70610-07-04 08:39 G	27511016.66	27511016.86	27511017.07	0.0090	0.0032
Venus	70611-02-14 21:51 G	27511242.22	27511242.41	27511242.61	0.0090	0.0038
Venus	70611-09-28 11:03 G	27511467.78	27511467.96	27511468.16	0.0090	0.0044
Venus	70612-05-11 00:43 G	27511693.35	27511693.53	27511693.71	0.0090	0.0050
Venus	70612-12-22 13:27 G	27511918.91	27511919.06	27511919.25	0.0090	0.0057
Venus	70613-08-05 02:53 G	27512144.48	27512144.62	27512144.79	0.0090	0.0063
Venus	70614-03-18 16:05 G	27512370.05	27512370.17	27512370.33	0.0090	0.0069
Venus	70614-10-30 05:46 G	27512595.63	27512595.74	27512595.87	0.0090	0.0074
Venus	70615-06-12 19:12 G	27512821.21	27512821.30	27512821.40	0.0090	0.0080
Venus	70616-01-24 08:24 G	27513046.80	27513046.85	27513046.92	0.0090	0.0086
Moon	70616-08-08 13:12 G	27513243.98	27513244.05	27513244.18	0.0090	0.0082
Earth	70616-08-08 14:24 G	27513244.05	27513244.10	27513244.20	0.0090	0.0086 *

Moon	70617-08-11 01:27 G	27513611.39	27513611.56	27513611.78	0.0090	0.0062
Earth	70617-08-11 02:10 G	27513611.40	27513611.59	27513611.80	0.0090	0.0057 *
Mercury	70618-04-23 13:12 G	27513867.01	27513867.05	27513867.13	0.0090	0.0083
Mercury	70618-07-20 15:22 G	27513955.07	27513955.14	27513955.24	0.0090	0.0074
Earth	70618-08-13 13:12 G	27513978.83	27513979.05	27513979.31	0.0090	0.0029
Moon	70618-08-13 15:22 G	27513978.90	27513979.14	27513979.38	0.0090	0.0024 *
Mercury	70618-10-16 17:31 G	27514043.13	27514043.23	27514043.34	0.0090	0.0065
Mercury	70619-01-12 19:27 G	27514131.20	27514131.31	27514131.44	0.0090	0.0056
Mercury	70619-04-10 21:22 G	27514219.27	27514219.39	27514219.53	0.0090	0.0048
Mercury	70619-07-07 23:31 G	27514307.35	27514307.48	27514307.62	0.0090	0.0039
Moon	70619-08-15 22:34 G	27514346.18	27514346.44	27514346.70	0.0090	0.0004
Earth	70619-08-16 00:58 G	27514346.28	27514346.54	27514346.79	0.0090	0.0000 *
Mercury	70619-10-04 01:27 G	27514395.42	27514395.56	27514395.70	0.0090	0.0030
Mercury	70619-12-31 03:22 G	27514483.50	27514483.64	27514483.79	0.0089	0.0022
Mercury	70620-03-28 05:17 G	27514571.58	27514571.72	27514571.87	0.0089	0.0014
Mercury	70620-06-24 07:12 G	27514659.65	27514659.80	27514659.95	0.0089	0.0005
Earth	70620-08-17 11:46 G	27514713.76	27514713.99	27514714.24	0.0089	0.0029
Moon	70620-08-17 15:07 G	27514713.91	27514714.13	27514714.38	0.0089	0.0034 *
Mercury	70620-09-20 09:07 G	27514747.73	27514747.88	27514748.03	0.0089	0.0004
Mercury	70620-12-17 11:03 G	27514835.81	27514835.96	27514836.11	0.0089	0.0012
Mercury	70621-03-15 12:58 G	27514923.90	27514924.04	27514924.19	0.0089	0.0021
Mercury	70621-06-11 14:53 G	27515011.98	27515012.12	27515012.26	0.0089	0.0029
Moon	70621-08-19 19:27 G	27515081.13	27515081.31	27515081.54	0.0089	0.0053
Earth	70621-08-19 22:48 G	27515081.28	27515081.45	27515081.67	0.0089	0.0058 *
Mercury	70621-09-07 16:34 G	27515100.06	27515100.19	27515100.33	0.0089	0.0038
Mercury	70621-12-04 18:29 G	27515188.15	27515188.27	27515188.40	0.0089	0.0046
Mercury	70622-03-02 20:24 G	27515276.24	27515276.35	27515276.47	0.0089	0.0054
Mercury	70622-05-29 22:05 G	27515364.33	27515364.42	27515364.54	0.0089	0.0062
Earth	70622-08-22 10:05 G	27515448.87	27515448.92	27515449.02	0.0089	0.0086
Mercury	70622-08-26 00:00 G	27515452.42	27515452.50	27515452.60	0.0089	0.0070

Mercury	70622-11-22 01:55 G	27515540.52	27515540.58	27515540.65	0.0089	0.0078
Mercury	70623-02-18 03:36 G	27515628.63	27515628.65	27515628.70	0.0089	0.0087
Mars	70649-08-01 08:53 G	27525289.55	27525289.87	27525290.21	0.0088	0.0017
Jupiter	70663-12-09 05:17 G	27530532.18	27530532.72	27530533.26	0.0088	0.0003
Venus	70680-04-14 09:22 G	27536503.88	27536503.89	27536503.93	0.0088	0.0087
Venus	70680-11-25 22:05 G	27536729.36	27536729.42	27536729.52	0.0088	0.0082
Venus	70681-07-09 11:03 G	27536954.87	27536954.96	27536955.08	0.0088	0.0076
Venus	70682-02-19 23:46 G	27537180.38	27537180.49	27537180.64	0.0088	0.0071
Venus	70682-10-03 12:43 G	27537405.90	27537406.03	27537406.20	0.0088	0.0065
Venus	70683-05-17 01:41 G	27537631.42	27537631.57	27537631.74	0.0088	0.0059
Venus	70683-12-28 14:10 G	27537856.94	27537857.09	27537857.29	0.0088	0.0054
Venus	70684-08-10 03:07 G	27538082.46	27538082.63	27538082.83	0.0088	0.0048
Venus	70685-03-23 16:05 G	27538307.98	27538308.17	27538308.37	0.0088	0.0042
Venus	70685-11-04 05:03 G	27538533.52	27538533.71	27538533.92	0.0088	0.0036
Venus	70686-06-17 17:46 G	27538759.04	27538759.24	27538759.46	0.0088	0.0030
Venus	70687-01-29 06:29 G	27538984.57	27538984.77	27538985.00	0.0088	0.0025
Venus	70687-09-11 19:27 G	27539210.10	27539210.31	27539210.53	0.0088	0.0019
Venus	70688-04-24 08:24 G	27539435.63	27539435.85	27539436.07	0.0088	0.0013
Venus	70688-12-05 21:22 G	27539661.17	27539661.39	27539661.61	0.0088	0.0007
Venus	70689-07-19 10:05 G	27539886.70	27539886.92	27539887.15	0.0088	0.0002
Venus	70690-03-01 23:03 G	27540112.24	27540112.46	27540112.68	0.0088	0.0005
Venus	70690-10-13 11:46 G	27540337.77	27540337.99	27540338.21	0.0088	0.0011
Venus	70691-05-27 00:29 G	27540563.31	27540563.52	27540563.74	0.0088	0.0017
Venus	70692-01-07 13:12 G	27540788.85	27540789.05	27540789.27	0.0088	0.0023
Venus	70692-08-20 01:55 G	27541014.38	27541014.58	27541014.80	0.0088	0.0029
Venus	70693-04-02 14:53 G	27541239.92	27541240.12	27541240.33	0.0088	0.0034
Venus	70693-11-14 03:36 G	27541465.46	27541465.65	27541465.86	0.0088	0.0040
Venus	70694-06-27 16:19 G	27541691.00	27541691.18	27541691.38	0.0088	0.0046
Venus	70695-02-08 04:48 G	27541916.54	27541916.70	27541916.90	0.0088	0.0052
Venus	70695-09-21 17:46 G	27542142.08	27542142.24	27542142.41	0.0088	0.0057

Venus	70696-05-04 06:15 G	27542367.62	27542367.76	27542367.93	0.0088	0.0063
Venus	70696-12-15 18:58 G	27542593.17	27542593.29	27542593.45	0.0088	0.0069
Venus	70697-07-29 07:55 G	27542818.72	27542818.83	27542818.95	0.0088	0.0074
Venus	70698-03-11 20:10 G	27543044.28	27543044.34	27543044.46	0.0088	0.0080
Venus	70698-10-23 09:22 G	27543269.85	27543269.89	27543269.95	0.0088	0.0085
Earth	70700-02-11 01:12 G	27543745.39	27543745.55	27543745.71	0.0088	0.0068
Moon	70700-02-11 02:24 G	27543745.47	27543745.60	27543745.75	0.0088	0.0072 *
Moon	70701-02-13 10:05 G	27544112.69	27544112.92	27544113.18	0.0088	0.0037
Earth	70701-02-13 12:58 G	27544112.82	27544113.04	27544113.28	0.0088	0.0041 *
Mercury	70701-06-29 15:51 G	27544249.10	27544249.16	27544249.23	0.0088	0.0080
Mercury	70701-09-25 17:46 G	27544337.16	27544337.24	27544337.35	0.0088	0.0072
Mercury	70701-12-22 20:24 G	27544425.24	27544425.35	27544425.46	0.0088	0.0063
Earth	70702-02-16 00:58 G	27544480.29	27544480.54	27544480.80	0.0088	0.0013
Moon	70702-02-16 04:19 G	27544480.43	27544480.68	27544480.94	0.0088	0.0017 *
Mercury	70702-03-20 22:19 G	27544513.32	27544513.43	27544513.58	0.0088	0.0055
Mercury	70702-06-17 00:58 G	27544601.40	27544601.54	27544601.68	0.0088	0.0046
Mercury	70702-09-13 03:22 G	27544689.49	27544689.64	27544689.79	0.0088	0.0037
Mercury	70702-12-10 05:31 G	27544777.58	27544777.73	27544777.89	0.0088	0.0029
Moon	70703-02-18 09:22 G	27544847.65	27544847.89	27544848.16	0.0088	0.0019
Earth	70703-02-18 12:58 G	27544847.79	27544848.04	27544848.31	0.0088	0.0015 *
Mercury	70703-03-08 07:55 G	27544865.67	27544865.83	27544866.00	0.0088	0.0020
Mercury	70703-06-04 10:19 G	27544953.77	27544953.93	27544954.10	0.0088	0.0011
Mercury	70703-08-31 12:43 G	27545041.87	27545042.03	27545042.20	0.0088	0.0002
Mercury	70703-11-27 15:07 G	27545129.97	27545130.13	27545130.30	0.0088	0.0007
Earth	70704-02-21 00:58 G	27545215.32	27545215.54	27545215.78	0.0088	0.0042
Moon	70704-02-21 04:19 G	27545215.47	27545215.68	27545215.94	0.0088	0.0038 *
Mercury	70704-02-23 17:31 G	27545218.07	27545218.23	27545218.39	0.0088	0.0016
Mercury	70704-05-21 19:41 G	27545306.17	27545306.32	27545306.49	0.0088	0.0025
Mercury	70704-08-17 22:05 G	27545394.28	27545394.42	27545394.59	0.0088	0.0034
Mercury	70704-11-14 00:29 G	27545482.39	27545482.52	27545482.68	0.0088	0.0043

Mercury	70705-02-10 02:53 G	27545570.50	27545570.62	27545570.77	0.0088	0.0052
Moon	70705-02-22 09:51 G	27545582.80	27545582.91	27545583.07	0.0088	0.0074
Earth	70705-02-22 12:29 G	27545582.89	27545583.02	27545583.20	0.0088	0.0070 *
Mercury	70705-05-09 05:17 G	27545658.62	27545658.72	27545658.86	0.0088	0.0061
Mercury	70705-08-05 07:55 G	27545746.74	27545746.83	27545746.94	0.0088	0.0070
Mercury	70705-11-01 10:19 G	27545834.87	27545834.93	27545835.01	0.0088	0.0079
Mars	70733-03-20 00:43 G	27555835.23	27555835.53	27555835.83	0.0089	0.0001
Venus	70763-01-12 05:17 G	27566725.67	27566725.72	27566725.81	0.0090	0.0085
Venus	70763-08-25 18:29 G	27566951.19	27566951.27	27566951.39	0.0090	0.0079
Venus	70764-04-07 07:55 G	27567176.72	27567176.83	27567176.97	0.0090	0.0073
Venus	70764-11-18 21:07 G	27567402.25	27567402.38	27567402.54	0.0090	0.0067
Venus	70765-07-02 10:19 G	27567627.78	27567627.93	27567628.10	0.0090	0.0061
Venus	70766-02-12 23:31 G	27567853.32	27567853.48	27567853.67	0.0090	0.0055
Venus	70766-09-26 12:43 G	27568078.86	27568079.03	27568079.23	0.0090	0.0049
Venus	70767-05-10 02:10 G	27568304.41	27568304.59	27568304.79	0.0090	0.0043
Venus	70767-12-21 15:22 G	27568529.95	27568530.14	27568530.35	0.0090	0.0037
Venus	70768-08-03 04:34 G	27568755.50	27568755.69	27568755.91	0.0090	0.0031
Venus	70769-03-16 18:00 G	27568981.04	27568981.25	27568981.46	0.0090	0.0024
Venus	70769-10-28 07:12 G	27569206.59	27569206.80	27569207.02	0.0090	0.0018
Venus	70770-06-10 20:24 G	27569432.14	27569432.35	27569432.58	0.0090	0.0012
Venus	70771-01-22 09:51 G	27569657.69	27569657.91	27569658.13	0.0090	0.0006
Venus	70771-09-04 23:03 G	27569883.24	27569883.46	27569883.68	0.0090	0.0002
Venus	70772-04-17 12:15 G	27570108.79	27570109.01	27570109.23	0.0090	0.0007
Venus	70772-11-29 01:27 G	27570334.35	27570334.56	27570334.78	0.0090	0.0013
Venus	70773-07-12 14:24 G	27570559.90	27570560.10	27570560.33	0.0090	0.0020
Venus	70774-02-23 03:36 G	27570785.45	27570785.65	27570785.87	0.0090	0.0026
Venus	70774-10-06 16:48 G	27571011.01	27571011.20	27571011.42	0.0090	0.0032
Venus	70775-05-20 06:15 G	27571236.57	27571236.76	27571236.97	0.0090	0.0038
Venus	70775-12-31 19:27 G	27571462.13	27571462.31	27571462.51	0.0090	0.0044
Venus	70776-08-13 08:53 G	27571687.69	27571687.87	27571688.05	0.0090	0.0050

Venus	70777-03-26 22:05 G	27571913.25	27571913.42	27571913.59	0.0090	0.0056
Venus	70777-11-07 11:03 G	27572138.82	27572138.96	27572139.13	0.0090	0.0063
Venus	70778-06-21 00:15 G	27572364.40	27572364.51	27572364.68	0.0090	0.0069
Venus	70779-02-01 13:41 G	27572589.97	27572590.07	27572590.21	0.0090	0.0075
Venus	70779-09-15 02:53 G	27572815.55	27572815.62	27572815.74	0.0090	0.0081
Venus	70780-04-27 16:48 G	27573041.15	27573041.20	27573041.26	0.0090	0.0086
Earth	70781-08-11 08:24 G	27573511.71	27573511.85	27573512.02	0.0090	0.0071
Moon	70781-08-11 10:19 G	27573511.80	27573511.93	27573512.10	0.0090	0.0071 *
Moon	70782-08-13 16:48 G	27573878.98	27573879.20	27573879.44	0.0090	0.0042
Earth	70782-08-13 19:41 G	27573879.12	27573879.32	27573879.57	0.0090	0.0043 *
Mercury	70782-10-23 09:51 G	27573949.90	27573949.91	27573949.95	0.0090	0.0089
Mercury	70783-01-19 12:00 G	27574037.94	27574038.00	27574038.08	0.0090	0.0080
Mercury	70783-04-17 14:10 G	27574126.00	27574126.09	27574126.19	0.0090	0.0071
Mercury	70783-07-14 16:19 G	27574214.07	27574214.18	27574214.29	0.0090	0.0062
Earth	70783-08-16 07:27 G	27574246.56	27574246.81	27574247.06	0.0090	0.0014
Moon	70783-08-16 10:19 G	27574246.69	27574246.93	27574247.19	0.0090	0.0014 *
Mercury	70783-10-10 18:00 G	27574302.14	27574302.25	27574302.38	0.0090	0.0054
Mercury	70784-01-06 20:10 G	27574390.21	27574390.34	27574390.48	0.0090	0.0045
Mercury	70784-04-03 22:19 G	27574478.29	27574478.43	27574478.57	0.0090	0.0036
Mercury	70784-07-01 00:00 G	27574566.37	27574566.50	27574566.65	0.0090	0.0028
Moon	70784-08-17 15:07 G	27574613.88	27574614.13	27574614.38	0.0090	0.0014
Earth	70784-08-17 18:43 G	27574614.03	27574614.28	27574614.54	0.0090	0.0015 *
Mercury	70784-09-27 02:10 G	27574654.44	27574654.59	27574654.74	0.0090	0.0019
Mercury	70784-12-24 04:05 G	27574742.52	27574742.67	27574742.82	0.0089	0.0010
Mercury	70785-03-22 06:00 G	27574830.60	27574830.75	27574830.90	0.0089	0.0002
Mercury	70785-06-18 07:55 G	27574918.68	27574918.83	27574918.98	0.0089	0.0007
Earth	70785-08-20 06:00 G	27574981.53	27574981.75	27574981.98	0.0089	0.0043
Moon	70785-08-20 08:39 G	27574981.65	27574981.86	27574982.11	0.0089	0.0044 *
Mercury	70785-09-14 09:51 G	27575006.76	27575006.91	27575007.06	0.0089	0.0015
Mercury	70785-12-11 11:46 G	27575094.85	27575094.99	27575095.13	0.0089	0.0024



Mercury	70786-03-09 13:27 G	27575182.93	27575183.06	27575183.21	0.0089	0.0032
Mercury	70786-06-05 15:22 G	27575271.02	27575271.14	27575271.28	0.0089	0.0041
Moon	70786-08-22 14:10 G	27575348.97	27575349.09	27575349.27	0.0089	0.0071
Earth	70786-08-22 16:48 G	27575349.07	27575349.20	27575349.37	0.0089	0.0072 *
Mercury	70786-09-01 17:17 G	27575359.10	27575359.22	27575359.35	0.0089	0.0049
Mercury	70786-11-28 18:58 G	27575447.19	27575447.29	27575447.42	0.0089	0.0058
Mercury	70787-02-24 20:53 G	27575535.28	27575535.37	27575535.48	0.0089	0.0066
Mercury	70787-05-23 22:48 G	27575623.38	27575623.45	27575623.54	0.0089	0.0074
Mercury	70787-08-20 00:43 G	27575711.48	27575711.53	27575711.59	0.0089	0.0082
Mars	70813-03-15 20:53 G	27585051.35	27585051.37	27585051.43	0.0088	0.0088
Mars	70815-02-09 17:31 G	27585747.08	27585747.23	27585747.44	0.0088	0.0075
Jupiter	70830-02-06 17:46 G	27591222.76	27591223.24	27591223.79	0.0088	0.0029
Venus	70844-07-17 18:43 G	27596498.28	27596498.28	27596498.28	0.0088	0.0088
Venus	70845-02-28 07:27 G	27596723.74	27596723.81	27596723.89	0.0088	0.0082
Venus	70845-10-11 19:55 G	27596949.25	27596949.33	27596949.46	0.0088	0.0077
Venus	70846-05-25 09:07 G	27597174.76	27597174.88	27597175.02	0.0088	0.0071
Venus	70847-01-05 22:05 G	27597400.28	27597400.42	27597400.57	0.0088	0.0065
Venus	70847-08-19 10:19 G	27597625.79	27597625.93	27597626.12	0.0088	0.0060
Venus	70848-03-31 23:17 G	27597851.31	27597851.47	27597851.66	0.0088	0.0054
Venus	70848-11-12 12:29 G	27598076.84	27598077.02	27598077.21	0.0088	0.0048
Venus	70849-06-26 00:58 G	27598302.36	27598302.54	27598302.75	0.0088	0.0043
Venus	70850-02-06 13:41 G	27598527.89	27598528.07	27598528.29	0.0088	0.0037
Venus	70850-09-20 02:39 G	27598753.41	27598753.61	27598753.83	0.0088	0.0031
Venus	70851-05-03 15:36 G	27598978.94	27598979.15	27598979.37	0.0088	0.0025
Venus	70851-12-15 04:19 G	27599204.47	27599204.68	27599204.90	0.0088	0.0019
Venus	70852-07-27 17:17 G	27599430.00	27599430.22	27599430.44	0.0088	0.0013
Venus	70853-03-10 06:00 G	27599655.53	27599655.75	27599655.97	0.0088	0.0007
Venus	70853-10-21 18:58 G	27599881.07	27599881.29	27599881.51	0.0088	0.0001
Venus	70854-06-04 07:41 G	27600106.60	27600106.82	27600107.05	0.0088	0.0005
Venus	70855-01-15 20:24 G	27600332.14	27600332.35	27600332.58	0.0088	0.0011

Venus	70855-08-29 09:07 G	27600557.67	27600557.88	27600558.11	0.0088	0.0017
Venus	70856-04-10 21:51 G	27600783.21	27600783.41	27600783.64	0.0088	0.0023
Venus	70856-11-22 10:48 G	27601008.75	27601008.95	27601009.17	0.0088	0.0029
Venus	70857-07-05 23:46 G	27601234.29	27601234.49	27601234.70	0.0088	0.0034
Venus	70858-02-16 12:29 G	27601459.83	27601460.02	27601460.22	0.0088	0.0040
Venus	70858-09-30 01:12 G	27601685.37	27601685.55	27601685.75	0.0088	0.0046
Venus	70859-05-13 13:41 G	27601910.91	27601911.07	27601911.27	0.0088	0.0052
Venus	70859-12-25 02:24 G	27602136.46	27602136.60	27602136.79	0.0088	0.0058
Venus	70860-08-06 15:22 G	27602362.00	27602362.14	27602362.30	0.0088	0.0063
Venus	70861-03-20 03:51 G	27602587.55	27602587.66	27602587.82	0.0088	0.0069
Venus	70861-10-31 16:34 G	27602813.10	27602813.19	27602813.33	0.0088	0.0075
Venus	70862-06-14 05:31 G	27603038.66	27603038.73	27603038.83	0.0088	0.0080
Venus	70863-01-25 18:00 G	27603264.23	27603264.25	27603264.32	0.0088	0.0086
Moon	70864-02-11 03:22 G	27603645.59	27603645.64	27603645.73	0.0088	0.0085
Earth	70864-02-11 06:15 G	27603645.69	27603645.76	27603645.88	0.0088	0.0082 *
Earth	70865-02-12 18:29 G	27604013.07	27604013.27	27604013.48	0.0088	0.0054
Moon	70865-02-12 22:05 G	27604013.21	27604013.42	27604013.63	0.0088	0.0051 *
Mercury	70865-12-28 11:31 G	27604331.96	27604331.98	27604332.03	0.0088	0.0086
Moon	70866-02-15 02:39 G	27604380.38	27604380.61	27604380.87	0.0088	0.0031
Earth	70866-02-15 06:15 G	27604380.53	27604380.76	27604381.02	0.0088	0.0027 *
Mercury	70866-03-26 13:55 G	27604420.02	27604420.08	27604420.17	0.0088	0.0077
Mercury	70866-06-22 16:05 G	27604508.09	27604508.17	27604508.29	0.0088	0.0069
Mercury	70866-09-18 18:29 G	27604596.16	27604596.27	27604596.40	0.0088	0.0060
Mercury	70866-12-15 21:07 G	27604684.25	27604684.38	27604684.51	0.0088	0.0051
Earth	70867-02-17 18:29 G	27604748.01	27604748.27	27604748.53	0.0088	0.0001
Moon	70867-02-17 21:36 G	27604748.14	27604748.40	27604748.67	0.0088	0.0004 *
Mercury	70867-03-13 23:03 G	27604772.33	27604772.46	27604772.62	0.0088	0.0043
Mercury	70867-06-10 01:41 G	27604860.42	27604860.57	27604860.72	0.0088	0.0034
Mercury	70867-09-06 04:05 G	27604948.51	27604948.67	27604948.82	0.0088	0.0025
Mercury	70867-12-03 06:15 G	27605036.60	27605036.76	27605036.93	0.0088	0.0017

Moon	70868-02-20 03:36 G	27605115.42	27605115.65	27605115.91	0.0088	0.0026
Earth	70868-02-20 06:15 G	27605115.53	27605115.76	27605116.02	0.0088	0.0029 *
Mercury	70868-02-29 08:39 G	27605124.70	27605124.86	27605125.03	0.0088	0.0008
Mercury	70868-05-27 11:03 G	27605212.79	27605212.96	27605213.13	0.0088	0.0001
Mercury	70868-08-23 13:27 G	27605300.89	27605301.06	27605301.22	0.0088	0.0010
Mercury	70868-11-19 15:36 G	27605389.00	27605389.15	27605389.32	0.0088	0.0019
Mercury	70869-02-15 18:00 G	27605477.10	27605477.25	27605477.41	0.0088	0.0028
Earth	70869-02-21 18:15 G	27605483.07	27605483.26	27605483.47	0.0088	0.0056
Moon	70869-02-21 19:12 G	27605483.12	27605483.30	27605483.52	0.0088	0.0059 *
Mercury	70869-05-14 20:24 G	27605565.21	27605565.35	27605565.51	0.0088	0.0037
Mercury	70869-08-10 22:48 G	27605653.32	27605653.45	27605653.60	0.0088	0.0046
Mercury	70869-11-07 01:12 G	27605741.43	27605741.55	27605741.69	0.0088	0.0055
Mercury	70870-02-03 03:36 G	27605829.55	27605829.65	27605829.77	0.0088	0.0064
Moon	70870-02-24 05:31 G	27605850.67	27605850.73	27605850.85	0.0088	0.0082
Earth	70870-02-24 05:46 G	27605850.69	27605850.74	27605850.85	0.0088	0.0084 *
Mercury	70870-05-02 06:00 G	27605917.67	27605917.75	27605917.85	0.0088	0.0073
Mercury	70870-07-29 08:24 G	27606005.81	27606005.85	27606005.92	0.0088	0.0082
Mars	70896-11-02 02:53 G	27615598.42	27615598.62	27615598.82	0.0089	0.0064
Mars	70898-09-27 00:29 G	27616292.40	27616292.52	27616292.66	0.0089	0.0079
Venus	70927-04-16 13:27 G	27626720.02	27626720.06	27626720.14	0.0090	0.0086
Venus	70927-11-28 02:39 G	27626945.53	27626945.61	27626945.72	0.0090	0.0080
Venus	70928-07-10 15:51 G	27627171.05	27627171.16	27627171.29	0.0090	0.0074
Venus	70929-02-21 05:03 G	27627396.58	27627396.71	27627396.86	0.0090	0.0068
Venus	70929-10-04 18:15 G	27627622.11	27627622.26	27627622.43	0.0090	0.0062
Venus	70930-05-18 07:27 G	27627847.65	27627847.81	27627847.99	0.0090	0.0056
Venus	70930-12-29 20:39 G	27628073.19	27628073.36	27628073.55	0.0090	0.0050
Venus	70931-08-12 09:51 G	27628298.73	27628298.91	27628299.11	0.0090	0.0044
Venus	70932-03-24 23:03 G	27628524.28	27628524.46	27628524.68	0.0090	0.0038
Venus	70932-11-05 12:29 G	27628749.83	27628750.02	27628750.24	0.0090	0.0032
Venus	70933-06-19 01:55 G	27628975.38	27628975.58	27628975.80	0.0090	0.0025

Venus	70934-01-30 15:07 G	27629200.92	27629201.13	27629201.35	0.0090	0.0019
Venus	70934-09-13 04:19 G	27629426.47	27629426.68	27629426.90	0.0090	0.0013
Venus	70935-04-26 17:46 G	27629652.03	27629652.24	27629652.46	0.0090	0.0007
Venus	70935-12-08 07:12 G	27629877.58	27629877.80	27629878.02	0.0090	0.0001
Venus	70936-07-20 20:10 G	27630103.13	27630103.34	27630103.57	0.0090	0.0007
Venus	70937-03-03 09:22 G	27630328.68	27630328.89	27630329.11	0.0090	0.0013
Venus	70937-10-14 22:34 G	27630554.23	27630554.44	27630554.66	0.0090	0.0019
Venus	70938-05-28 12:00 G	27630779.79	27630780.00	27630780.21	0.0090	0.0025
Venus	70939-01-09 00:58 G	27631005.35	27631005.54	27631005.76	0.0090	0.0032
Venus	70939-08-22 14:10 G	27631230.91	27631231.09	27631231.30	0.0090	0.0038
Venus	70940-04-04 03:36 G	27631456.47	27631456.65	27631456.85	0.0090	0.0044
Venus	70940-11-15 16:48 G	27631682.03	27631682.20	27631682.39	0.0090	0.0050
Venus	70941-06-29 06:15 G	27631907.59	27631907.76	27631907.93	0.0090	0.0056
Venus	70942-02-09 19:27 G	27632133.16	27632133.31	27632133.47	0.0090	0.0062
Venus	70942-09-23 08:10 G	27632358.73	27632358.84	27632359.01	0.0090	0.0069
Venus	70943-05-06 21:36 G	27632584.31	27632584.40	27632584.55	0.0090	0.0075
Venus	70943-12-18 11:03 G	27632809.89	27632809.96	27632810.08	0.0090	0.0081
Venus	70944-07-31 00:15 G	27633035.48	27633035.51	27633035.59	0.0090	0.0087
Moon	70945-08-11 11:17 G	27633411.86	27633411.97	27633412.09	0.0090	0.0080
Earth	70945-08-11 13:55 G	27633412.04	27633412.08	27633412.19	0.0090	0.0086 *
Earth	70946-08-14 01:41 G	27633779.39	27633779.57	27633779.78	0.0090	0.0057
Moon	70946-08-14 05:17 G	27633779.55	27633779.72	27633779.92	0.0090	0.0062 *
Mercury	70947-07-21 08:24 G	27634120.82	27634120.85	27634120.91	0.0090	0.0086
Moon	70947-08-16 10:05 G	27634146.69	27634146.92	27634147.17	0.0090	0.0024
Earth	70947-08-16 13:12 G	27634146.82	27634147.05	27634147.30	0.0090	0.0029 *
Mercury	70947-10-17 10:34 G	27634208.87	27634208.94	27634209.03	0.0090	0.0077
Mercury	70948-01-13 12:43 G	27634296.94	27634297.03	27634297.13	0.0090	0.0068
Mercury	70948-04-10 14:39 G	27634385.01	27634385.11	27634385.23	0.0090	0.0059
Mercury	70948-07-07 16:34 G	27634473.08	27634473.19	27634473.33	0.0090	0.0051
Earth	70948-08-18 00:43 G	27634514.28	27634514.53	27634514.79	0.0090	0.0001

Moon	70948-08-18 03:51 G	27634514.41	27634514.66	27634514.92	0.0090	0.0005 *
Mercury	70948-10-03 18:43 G	27634561.15	27634561.28	27634561.42	0.0090	0.0042
Mercury	70948-12-30 20:39 G	27634649.23	27634649.36	27634649.51	0.0090	0.0033
Mercury	70949-03-28 22:48 G	27634737.30	27634737.45	27634737.60	0.0090	0.0025
Mercury	70949-06-25 00:43 G	27634825.38	27634825.53	27634825.68	0.0090	0.0016
Moon	70949-08-20 10:05 G	27634881.71	27634881.92	27634882.17	0.0090	0.0034
Earth	70949-08-20 11:46 G	27634881.76	27634881.99	27634882.25	0.0090	0.0029 *
Mercury	70949-09-21 02:39 G	27634913.46	27634913.61	27634913.76	0.0090	0.0008
Mercury	70949-12-18 04:34 G	27635001.54	27635001.69	27635001.85	0.0090	0.0003
Mercury	70950-03-16 06:29 G	27635089.62	27635089.77	27635089.92	0.0090	0.0010
Mercury	70950-06-12 08:24 G	27635177.71	27635177.85	27635178.00	0.0090	0.0018
Earth	70950-08-22 23:17 G	27635249.28	27635249.47	27635249.67	0.0090	0.0057
Moon	70950-08-22 23:46 G	27635249.29	27635249.49	27635249.72	0.0090	0.0053 *
Mercury	70950-09-08 10:19 G	27635265.79	27635265.93	27635266.08	0.0090	0.0027
Mercury	70950-12-05 12:15 G	27635353.88	27635354.01	27635354.15	0.0089	0.0035
Mercury	70951-03-03 13:55 G	27635441.96	27635442.08	27635442.22	0.0089	0.0044
Mercury	70951-05-30 15:51 G	27635530.05	27635530.16	27635530.29	0.0089	0.0052
Earth	70951-08-25 09:51 G	27635616.87	27635616.91	27635617.02	0.0089	0.0086
Mercury	70951-08-26 17:46 G	27635618.14	27635618.24	27635618.36	0.0089	0.0060
Mercury	70951-11-22 19:27 G	27635706.23	27635706.31	27635706.42	0.0089	0.0069
Mercury	70952-02-18 21:22 G	27635794.33	27635794.39	27635794.48	0.0089	0.0077
Mercury	70952-05-16 23:17 G	27635882.44	27635882.47	27635882.53	0.0089	0.0085
Mars	70978-09-24 06:00 G	27645508.42	27645508.75	27645509.09	0.0088	0.0003
Jupiter	70996-04-04 19:27 G	27651910.94	27651911.31	27651911.74	0.0088	0.0059

# 72ND MILLENNIUM CE

**This is a list of transits visible from Neptune in the 72nd millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	71009-06-03 16:05 G		27656718.12	27656718.17	27656718.25	0.0088	0.0083	
Venus	71010-01-15 04:48 G		27656943.62	27656943.70	27656943.82	0.0088	0.0078	
Venus	71010-08-28 17:46 G		27657169.13	27657169.24	27657169.38	0.0088	0.0072	
Venus	71011-04-11 06:43 G		27657394.65	27657394.78	27657394.94	0.0088	0.0066	
Venus	71011-11-22 19:55 G		27657620.17	27657620.33	27657620.49	0.0088	0.0060	
Venus	71012-07-05 08:24 G		27657845.69	27657845.85	27657846.04	0.0088	0.0055	
Venus	71013-02-15 21:07 G		27658071.22	27658071.38	27658071.58	0.0088	0.0049	
Venus	71013-09-29 10:05 G		27658296.74	27658296.92	27658297.13	0.0088	0.0043	
Venus	71014-05-12 23:03 G		27658522.27	27658522.46	27658522.67	0.0088	0.0037	
Venus	71014-12-24 11:46 G		27658747.79	27658747.99	27658748.21	0.0088	0.0031	
Venus	71015-08-07 00:43 G		27658973.32	27658973.53	27658973.74	0.0088	0.0025	
Venus	71016-03-19 13:27 G		27659198.85	27659199.06	27659199.28	0.0088	0.0019	
Venus	71016-10-31 02:10 G		27659424.38	27659424.59	27659424.82	0.0088	0.0014	
Venus	71017-06-13 15:07 G		27659649.91	27659650.13	27659650.35	0.0088	0.0007	
Venus	71018-01-25 03:51 G		27659875.44	27659875.66	27659875.88	0.0088	0.0001	
Venus	71018-09-07 16:34 G		27660100.97	27660101.19	27660101.41	0.0088	0.0005	
Venus	71019-04-21 05:17 G		27660326.50	27660326.72	27660326.94	0.0088	0.0011	
Venus	71019-12-02 18:00 G		27660552.04	27660552.25	27660552.48	0.0088	0.0017	
Venus	71020-07-15 06:43 G		27660777.58	27660777.78	27660778.01	0.0088	0.0023	
Venus	71021-02-25 19:27 G		27661003.11	27661003.31	27661003.53	0.0088	0.0029	
Venus	71021-10-09 08:39 G		27661228.65	27661228.86	27661229.06	0.0088	0.0034	
Venus	71022-05-22 21:22 G		27661454.19	27661454.39	27661454.59	0.0088	0.0040	
Venus	71023-01-03 09:51 G		27661679.74	27661679.91	27661680.11	0.0088	0.0046	
Venus	71023-08-16 22:34 G		27661905.28	27661905.44	27661905.63	0.0088	0.0052	

Venus	71024-03-29 11:17 G	27662130.82	27662130.97	27662131.15	0.0088	0.0058
Venus	71024-11-10 00:00 G	27662356.37	27662356.50	27662356.67	0.0088	0.0064
Venus	71025-06-23 12:58 G	27662581.92	27662582.04	27662582.19	0.0088	0.0069
Venus	71026-02-04 01:27 G	27662807.47	27662807.56	27662807.69	0.0088	0.0075
Venus	71026-09-17 13:55 G	27663033.02	27663033.08	27663033.19	0.0088	0.0081
Venus	71027-05-01 02:53 G	27663258.59	27663258.62	27663258.68	0.0088	0.0086
Moon	71029-02-13 19:41 G	27663913.19	27663913.32	27663913.49	0.0088	0.0071
Earth	71029-02-13 23:03 G	27663913.32	27663913.46	27663913.65	0.0088	0.0068 *
Earth	71030-02-16 11:03 G	27664280.74	27664280.96	27664281.21	0.0088	0.0041
Moon	71030-02-16 13:41 G	27664280.85	27664281.07	27664281.33	0.0088	0.0038 *
Mercury	71030-09-26 09:51 G	27664502.87	27664502.91	27664502.98	0.0088	0.0083
Mercury	71030-12-23 12:15 G	27664590.93	27664591.01	27664591.10	0.0088	0.0074
Moon	71031-02-18 21:22 G	27664648.15	27664648.39	27664648.65	0.0088	0.0016
Earth	71031-02-18 23:17 G	27664648.21	27664648.47	27664648.73	0.0088	0.0013 *
Mercury	71031-03-21 14:24 G	27664679.01	27664679.10	27664679.22	0.0088	0.0066
Mercury	71031-06-17 16:48 G	27664767.08	27664767.20	27664767.33	0.0088	0.0057
Mercury	71031-09-13 18:58 G	27664855.17	27664855.29	27664855.44	0.0088	0.0049
Mercury	71031-12-10 21:22 G	27664943.25	27664943.39	27664943.54	0.0088	0.0040
Earth	71032-02-21 11:03 G	27665015.71	27665015.96	27665016.22	0.0088	0.0015
Moon	71032-02-21 12:00 G	27665015.74	27665016.00	27665016.27	0.0088	0.0018 *
Mercury	71032-03-07 23:46 G	27665031.34	27665031.49	27665031.64	0.0088	0.0031
Mercury	71032-06-04 01:55 G	27665119.43	27665119.58	27665119.75	0.0088	0.0023
Mercury	71032-08-31 04:19 G	27665207.52	27665207.68	27665207.85	0.0088	0.0014
Mercury	71032-11-27 06:43 G	27665295.62	27665295.78	27665295.95	0.0088	0.0005
Earth	71033-02-22 22:48 G	27665383.23	27665383.45	27665383.69	0.0088	0.0042
Moon	71033-02-22 23:17 G	27665383.27	27665383.47	27665383.72	0.0088	0.0040 *
Mercury	71033-02-23 09:07 G	27665383.71	27665383.88	27665384.04	0.0088	0.0004 *
Mercury	71033-05-22 11:17 G	27665471.81	27665471.97	27665472.14	0.0088	0.0013
Mercury	71033-08-18 13:41 G	27665559.91	27665560.07	27665560.24	0.0088	0.0022
Mercury	71033-11-14 16:05 G	27665648.02	27665648.17	27665648.33	0.0088	0.0031

Mercury	71034-02-10 18:15 G	27665736.13	27665736.26	27665736.42	0.0088	0.0040
Moon	71034-02-25 08:53 G	27665750.73	27665750.87	27665751.04	0.0088	0.0072
Earth	71034-02-25 10:34 G	27665750.81	27665750.94	27665751.12	0.0088	0.0070 *
Mercury	71034-05-09 20:39 G	27665824.24	27665824.36	27665824.51	0.0088	0.0049
Mercury	71034-08-05 23:03 G	27665912.35	27665912.46	27665912.60	0.0088	0.0058
Mercury	71034-11-02 01:27 G	27666000.47	27666000.56	27666000.68	0.0088	0.0067
Mercury	71035-01-29 03:51 G	27666088.60	27666088.66	27666088.76	0.0088	0.0076
Mercury	71035-04-27 06:15 G	27666176.74	27666176.76	27666176.82	0.0088	0.0085
Mars	71062-05-14 02:53 G	27676055.34	27676055.62	27676055.92	0.0089	0.0014
Venus	71091-07-19 21:22 G	27686714.35	27686714.39	27686714.45	0.0090	0.0087
Venus	71092-03-01 10:34 G	27686939.86	27686939.94	27686940.04	0.0090	0.0081
Venus	71092-10-12 23:46 G	27687165.38	27687165.49	27687165.61	0.0090	0.0075
Venus	71093-05-26 12:58 G	27687390.91	27687391.04	27687391.18	0.0090	0.0069
Venus	71094-01-07 02:10 G	27687616.44	27687616.59	27687616.75	0.0090	0.0063
Venus	71094-08-20 15:07 G	27687841.97	27687842.13	27687842.31	0.0090	0.0057
Venus	71095-04-03 04:19 G	27688067.51	27688067.68	27688067.87	0.0090	0.0051
Venus	71095-11-14 17:31 G	27688293.05	27688293.23	27688293.43	0.0090	0.0045
Venus	71096-06-27 06:43 G	27688518.59	27688518.78	27688518.99	0.0090	0.0039
Venus	71097-02-07 20:10 G	27688744.14	27688744.34	27688744.54	0.0090	0.0032
Venus	71097-09-21 09:22 G	27688969.68	27688969.89	27688970.10	0.0090	0.0026
Venus	71098-05-04 22:34 G	27689195.24	27689195.44	27689195.66	0.0090	0.0020
Venus	71098-12-16 11:46 G	27689420.79	27689420.99	27689421.22	0.0090	0.0014
Venus	71099-07-30 01:12 G	27689646.33	27689646.55	27689646.77	0.0090	0.0007
Venus	71100-03-12 14:24 G	27689871.89	27689872.10	27689872.32	0.0090	0.0002
Venus	71100-10-24 03:36 G	27690097.44	27690097.65	27690097.88	0.0090	0.0006
Venus	71101-06-06 17:03 G	27690323.00	27690323.21	27690323.43	0.0090	0.0012
Venus	71102-01-18 06:00 G	27690548.55	27690548.75	27690548.98	0.0090	0.0019
Venus	71102-08-31 19:12 G	27690774.10	27690774.30	27690774.52	0.0090	0.0025
Venus	71103-04-14 08:39 G	27690999.66	27690999.86	27691000.07	0.0090	0.0031
Venus	71103-11-25 22:05 G	27691225.22	27691225.42	27691225.62	0.0090	0.0037



Venus	71104-07-08 11:03 G	27691450.78	27691450.96	27691451.16	0.0090	0.0044
Venus	71105-02-19 00:15 G	27691676.34	27691676.51	27691676.70	0.0090	0.0050
Venus	71105-10-02 13:27 G	27691901.90	27691902.06	27691902.24	0.0090	0.0056
Venus	71106-05-16 02:53 G	27692127.47	27692127.62	27692127.79	0.0090	0.0062
Venus	71106-12-27 16:05 G	27692353.04	27692353.17	27692353.33	0.0090	0.0068
Venus	71107-08-10 05:31 G	27692578.61	27692578.73	27692578.86	0.0090	0.0074
Venus	71108-03-22 18:43 G	27692804.19	27692804.28	27692804.38	0.0090	0.0080
Venus	71108-11-03 07:55 G	27693029.78	27693029.83	27693029.90	0.0090	0.0086
Moon	71110-08-15 03:07 G	27693679.51	27693679.63	27693679.80	0.0090	0.0074
Earth	71110-08-15 06:15 G	27693679.64	27693679.76	27693679.94	0.0090	0.0072 *
Earth	71111-08-17 18:15 G	27694047.04	27694047.26	27694047.49	0.0090	0.0043
Moon	71111-08-17 20:24 G	27694047.13	27694047.35	27694047.59	0.0090	0.0042 *
Mercury	71112-04-18 06:43 G	27694291.74	27694291.78	27694291.85	0.0090	0.0084
Mercury	71112-07-15 08:53 G	27694379.80	27694379.87	27694379.96	0.0090	0.0075
Moon	71112-08-19 04:05 G	27694414.44	27694414.67	27694414.92	0.0090	0.0015
Earth	71112-08-19 05:46 G	27694414.49	27694414.74	27694415.00	0.0090	0.0015 *
Mercury	71112-10-11 11:03 G	27694467.86	27694467.96	27694468.07	0.0090	0.0066
Mercury	71113-01-07 13:12 G	27694555.93	27694556.05	27694556.17	0.0090	0.0057
Mercury	71113-04-05 14:53 G	27694644.01	27694644.12	27694644.26	0.0090	0.0049
Mercury	71113-07-02 17:03 G	27694732.08	27694732.21	27694732.35	0.0090	0.0040
Moon	71113-08-21 17:17 G	27694781.96	27694782.22	27694782.48	0.0090	0.0015
Earth	71113-08-21 17:17 G	27694781.97	27694782.22	27694782.47	0.0090	0.0014 *
Mercury	71113-09-28 19:12 G	27694820.16	27694820.30	27694820.44	0.0090	0.0031
Mercury	71113-12-25 21:07 G	27694908.24	27694908.38	27694908.53	0.0090	0.0022
Mercury	71114-03-23 23:17 G	27694996.32	27694996.47	27694996.62	0.0090	0.0014
Mercury	71114-06-20 01:12 G	27695084.40	27695084.55	27695084.70	0.0090	0.0005
Earth	71114-08-24 04:19 G	27695149.47	27695149.68	27695149.92	0.0090	0.0043
Moon	71114-08-24 05:31 G	27695149.53	27695149.73	27695149.96	0.0090	0.0042 *
Mercury	71114-09-16 03:07 G	27695172.48	27695172.63	27695172.78	0.0090	0.0003
Mercury	71114-12-13 05:03 G	27695260.56	27695260.71	27695260.86	0.0090	0.0012

Mercury	71115-03-11 06:58 G	27695348.65	27695348.79	27695348.94	0.0090	0.0020
Mercury	71115-06-07 08:53 G	27695436.73	27695436.87	27695437.01	0.0089	0.0029
Moon	71115-08-26 13:41 G	27695516.93	27695517.07	27695517.25	0.0089	0.0071
Earth	71115-08-26 15:36 G	27695517.02	27695517.15	27695517.33	0.0089	0.0071 *
Mercury	71115-09-03 10:34 G	27695524.82	27695524.94	27695525.09	0.0089	0.0038
Mercury	71115-11-30 12:43 G	27695612.90	27695613.03	27695613.16	0.0089	0.0046
Mercury	71116-02-26 14:39 G	27695700.99	27695701.11	27695701.23	0.0089	0.0054
Mercury	71116-05-24 16:19 G	27695789.08	27695789.18	27695789.30	0.0089	0.0062
Mercury	71116-08-20 18:15 G	27695877.18	27695877.26	27695877.36	0.0089	0.0071
Mercury	71116-11-16 20:10 G	27695965.28	27695965.34	27695965.41	0.0089	0.0079
Mercury	71117-02-12 22:05 G	27696053.39	27696053.42	27696053.45	0.0089	0.0087
Mars	71142-05-09 15:07 G	27705269.96	27705270.13	27705270.38	0.0089	0.0070
Venus	71173-09-06 00:29 G	27716712.47	27716712.52	27716712.60	0.0088	0.0084
Venus	71174-04-19 13:41 G	27716937.97	27716938.07	27716938.17	0.0088	0.0078
Venus	71174-12-01 02:10 G	27717163.49	27717163.59	27717163.73	0.0088	0.0073
Venus	71175-07-14 15:07 G	27717389.00	27717389.13	27717389.29	0.0088	0.0067
Venus	71176-02-25 04:05 G	27717614.52	27717614.67	27717614.84	0.0088	0.0061
Venus	71176-10-07 17:17 G	27717840.05	27717840.22	27717840.40	0.0088	0.0055
Venus	71177-05-21 05:46 G	27718065.58	27718065.74	27718065.94	0.0088	0.0050
Venus	71178-01-01 18:29 G	27718291.10	27718291.27	27718291.48	0.0088	0.0044
Venus	71178-08-15 07:27 G	27718516.62	27718516.81	27718517.03	0.0088	0.0038
Venus	71179-03-28 20:24 G	27718742.15	27718742.35	27718742.57	0.0088	0.0032
Venus	71179-11-09 09:22 G	27718967.69	27718967.89	27718968.11	0.0088	0.0026
Venus	71180-06-21 22:05 G	27719193.22	27719193.42	27719193.65	0.0088	0.0020
Venus	71181-02-02 11:03 G	27719418.74	27719418.96	27719419.18	0.0088	0.0014
Venus	71181-09-15 23:46 G	27719644.27	27719644.49	27719644.71	0.0088	0.0008
Venus	71182-04-29 12:29 G	27719869.80	27719870.02	27719870.25	0.0088	0.0002
Venus	71182-12-11 01:27 G	27720095.34	27720095.56	27720095.78	0.0088	0.0004
Venus	71183-07-24 13:55 G	27720320.87	27720321.08	27720321.31	0.0088	0.0011
Venus	71184-03-06 02:39 G	27720546.40	27720546.61	27720546.84	0.0088	0.0017

Venus	71184-10-17 15:22 G	27720771.94	27720772.14	27720772.37	0.0088	0.0023
Venus	71185-05-31 04:34 G	27720997.48	27720997.69	27720997.90	0.0088	0.0028
Venus	71186-01-11 17:17 G	27721223.01	27721223.22	27721223.42	0.0088	0.0034
Venus	71186-08-25 05:46 G	27721448.55	27721448.74	27721448.95	0.0088	0.0040
Venus	71187-04-07 18:29 G	27721674.09	27721674.27	27721674.47	0.0088	0.0046
Venus	71187-11-19 07:27 G	27721899.64	27721899.81	27721900.00	0.0088	0.0052
Venus	71188-07-01 20:10 G	27722125.19	27722125.34	27722125.52	0.0088	0.0058
Venus	71189-02-12 08:39 G	27722350.73	27722350.86	27722351.04	0.0088	0.0064
Venus	71189-09-25 21:51 G	27722576.28	27722576.41	27722576.55	0.0088	0.0069
Venus	71190-05-09 10:19 G	27722801.83	27722801.93	27722802.06	0.0088	0.0075
Venus	71190-12-20 23:03 G	27723027.40	27723027.46	27723027.57	0.0088	0.0081
Venus	71191-08-03 12:15 G	27723252.98	27723253.01	27723253.05	0.0088	0.0086
Earth	71193-02-14 04:19 G	27723813.61	27723813.68	27723813.81	0.0088	0.0081
Moon	71193-02-14 07:27 G	27723813.74	27723813.81	27723813.89	0.0088	0.0084 *
Moon	71194-02-16 15:07 G	27724180.95	27724181.13	27724181.36	0.0088	0.0050
Earth	71194-02-16 16:19 G	27724181.00	27724181.18	27724181.41	0.0088	0.0054 *
Moon	71195-02-19 04:19 G	27724548.43	27724548.68	27724548.94	0.0088	0.0030
Earth	71195-02-19 04:19 G	27724548.45	27724548.68	27724548.94	0.0088	0.0027 *
Mercury	71195-03-28 06:15 G	27724585.76	27724585.76	27724585.77	0.0088	0.0088
Mercury	71195-06-24 08:10 G	27724673.79	27724673.84	27724673.92	0.0088	0.0080
Mercury	71195-09-20 10:34 G	27724761.86	27724761.94	27724762.04	0.0088	0.0071
Mercury	71195-12-17 12:43 G	27724849.93	27724850.03	27724850.16	0.0088	0.0063
Earth	71196-02-21 16:19 G	27724915.92	27724916.18	27724916.44	0.0088	0.0001
Moon	71196-02-21 17:17 G	27724915.97	27724916.22	27724916.47	0.0088	0.0005 *
Mercury	71196-03-14 15:07 G	27724938.01	27724938.13	27724938.26	0.0088	0.0054
Mercury	71196-06-10 17:17 G	27725026.09	27725026.22	27725026.37	0.0088	0.0046
Mercury	71196-09-06 19:41 G	27725114.18	27725114.32	27725114.47	0.0088	0.0037
Mercury	71196-12-03 22:05 G	27725202.26	27725202.42	27725202.57	0.0088	0.0028
Moon	71197-02-23 01:27 G	27725283.31	27725283.56	27725283.83	0.0088	0.0024
Earth	71197-02-23 03:51 G	27725283.43	27725283.66	27725283.93	0.0088	0.0029 *

Mercury	71197-03-02 00:15 G	27725290.35	27725290.51	27725290.67	0.0088	0.0020
Mercury	71197-05-29 02:39 G	27725378.45	27725378.61	27725378.77	0.0088	0.0011
Mercury	71197-08-25 05:03 G	27725466.54	27725466.71	27725466.87	0.0088	0.0003
Mercury	71197-11-21 07:12 G	27725554.64	27725554.80	27725554.97	0.0088	0.0007
Mercury	71198-02-17 09:36 G	27725642.74	27725642.90	27725643.06	0.0088	0.0015
Earth	71198-02-25 15:36 G	27725650.97	27725651.15	27725651.37	0.0088	0.0056
Moon	71198-02-25 18:58 G	27725651.12	27725651.29	27725651.49	0.0088	0.0060 *
Mercury	71198-05-16 11:46 G	27725730.84	27725730.99	27725731.16	0.0088	0.0025
Mercury	71198-08-12 14:24 G	27725818.94	27725819.10	27725819.25	0.0088	0.0033
Mercury	71198-11-08 16:34 G	27725907.05	27725907.19	27725907.34	0.0088	0.0042
Mercury	71199-02-04 18:58 G	27725995.16	27725995.29	27725995.43	0.0088	0.0051
Moon	71199-02-28 00:15 G	27726018.41	27726018.51	27726018.63	0.0088	0.0079
Earth	71199-02-28 03:36 G	27726018.58	27726018.65	27726018.75	0.0088	0.0083 *
Mercury	71199-05-03 21:22 G	27726083.28	27726083.39	27726083.52	0.0088	0.0060
Mercury	71199-07-30 23:46 G	27726171.40	27726171.49	27726171.60	0.0088	0.0069
Mercury	71199-10-27 02:10 G	27726259.52	27726259.59	27726259.67	0.0088	0.0078
Mercury	71200-01-23 04:34 G	27726347.68	27726347.69	27726347.72	0.0088	0.0087
Mars	71225-12-28 05:03 G	27735818.50	27735818.71	27735818.98	0.0089	0.0052
Venus	71255-10-22 04:48 G	27746708.69	27746708.70	27746708.75	0.0090	0.0089
Venus	71256-06-03 18:00 G	27746934.19	27746934.25	27746934.35	0.0090	0.0083
Venus	71257-01-15 06:58 G	27747159.70	27747159.79	27747159.93	0.0090	0.0077
Venus	71257-08-28 20:10 G	27747385.23	27747385.34	27747385.49	0.0090	0.0071
Venus	71258-04-11 09:22 G	27747610.76	27747610.89	27747611.06	0.0090	0.0065
Venus	71258-11-22 23:03 G	27747836.30	27747836.46	27747836.63	0.0090	0.0058
Venus	71259-07-06 12:00 G	27748061.83	27748062.00	27748062.19	0.0090	0.0052
Venus	71260-02-17 00:58 G	27748287.37	27748287.54	27748287.74	0.0090	0.0046
Venus	71260-09-29 14:10 G	27748512.91	27748513.09	27748513.30	0.0090	0.0040
Venus	71261-05-13 03:22 G	27748738.45	27748738.64	27748738.86	0.0090	0.0034
Venus	71261-12-24 16:48 G	27748964.00	27748964.20	27748964.42	0.0090	0.0027
Venus	71262-08-07 06:00 G	27749189.54	27749189.75	27749189.97	0.0090	0.0021

Venus	71263-03-20 19:12 G	27749415.09	27749415.30	27749415.52	0.0090	0.0015
Venus	71263-11-01 08:39 G	27749640.64	27749640.86	27749641.08	0.0090	0.0008
Venus	71264-06-13 21:51 G	27749866.20	27749866.41	27749866.63	0.0090	0.0003
Venus	71265-01-25 11:17 G	27750091.75	27750091.97	27750092.19	0.0090	0.0005
Venus	71265-09-08 00:29 G	27750317.30	27750317.52	27750317.74	0.0090	0.0011
Venus	71266-04-21 13:41 G	27750542.86	27750543.07	27750543.29	0.0090	0.0018
Venus	71266-12-03 03:07 G	27750768.42	27750768.63	27750768.84	0.0090	0.0024
Venus	71267-07-16 16:05 G	27750993.98	27750994.17	27750994.39	0.0090	0.0031
Venus	71268-02-27 05:17 G	27751219.53	27751219.72	27751219.93	0.0090	0.0037
Venus	71268-10-09 18:43 G	27751445.09	27751445.28	27751445.48	0.0090	0.0043
Venus	71269-05-23 08:10 G	27751670.66	27751670.84	27751671.02	0.0090	0.0049
Venus	71270-01-03 20:53 G	27751896.22	27751896.37	27751896.56	0.0090	0.0056
Venus	71270-08-17 10:05 G	27752121.78	27752121.92	27752122.10	0.0090	0.0062
Venus	71271-03-30 23:31 G	27752347.35	27752347.48	27752347.64	0.0090	0.0068
Venus	71271-11-11 12:43 G	27752572.92	27752573.03	27752573.17	0.0090	0.0074
Venus	71272-06-24 02:10 G	27752798.50	27752798.59	27752798.70	0.0090	0.0080
Venus	71273-02-04 15:22 G	27753024.09	27753024.14	27753024.21	0.0090	0.0086
Earth	71274-08-14 10:48 G	27753579.91	27753579.95	27753580.04	0.0090	0.0087
Moon	71274-08-14 12:58 G	27753579.96	27753580.04	27753580.17	0.0090	0.0082 *
Moon	71275-08-16 21:51 G	27753947.26	27753947.41	27753947.61	0.0090	0.0063
Earth	71275-08-16 22:48 G	27753947.26	27753947.45	27753947.65	0.0090	0.0058 *
Moon	71276-08-18 09:36 G	27754314.66	27754314.90	27754315.17	0.0090	0.0026
Earth	71276-08-18 10:05 G	27754314.69	27754314.92	27754315.17	0.0090	0.0030 *
Mercury	71277-01-13 05:03 G	27754462.66	27754462.71	27754462.78	0.0090	0.0082
Mercury	71277-04-11 07:12 G	27754550.72	27754550.80	27754550.89	0.0090	0.0073
Mercury	71277-07-08 09:07 G	27754638.79	27754638.88	27754639.00	0.0090	0.0064
Earth	71277-08-20 21:36 G	27754682.15	27754682.40	27754682.66	0.0090	0.0002
Moon	71277-08-20 23:31 G	27754682.23	27754682.48	27754682.72	0.0090	0.0006 *
Mercury	71277-10-04 11:03 G	27754726.86	27754726.96	27754727.10	0.0090	0.0056
Mercury	71277-12-31 13:12 G	27754814.93	27754815.05	27754815.19	0.0090	0.0047

Mercury	71278-03-29 15:22 G	27754903.01	27754903.14	27754903.28	0.0090	0.0038
Mercury	71278-06-25 17:17 G	27754991.08	27754991.22	27754991.37	0.0090	0.0030
Moon	71278-08-23 06:15 G	27755049.52	27755049.76	27755050.01	0.0090	0.0031
Earth	71278-08-23 09:07 G	27755049.64	27755049.88	27755050.13	0.0090	0.0027 *
Mercury	71278-09-21 19:27 G	27755079.16	27755079.31	27755079.46	0.0090	0.0021
Mercury	71278-12-18 21:22 G	27755167.24	27755167.39	27755167.54	0.0090	0.0012
Mercury	71279-03-16 23:31 G	27755255.33	27755255.48	27755255.63	0.0090	0.0004
Mercury	71279-06-13 01:27 G	27755343.41	27755343.56	27755343.71	0.0090	0.0005
Earth	71279-08-25 20:10 G	27755417.16	27755417.34	27755417.56	0.0090	0.0056
Moon	71279-08-25 23:31 G	27755417.29	27755417.48	27755417.70	0.0090	0.0051 *
Mercury	71279-09-09 03:22 G	27755431.49	27755431.64	27755431.79	0.0090	0.0014
Mercury	71279-12-06 05:17 G	27755519.58	27755519.72	27755519.87	0.0090	0.0022
Mercury	71280-03-03 07:12 G	27755607.66	27755607.80	27755607.94	0.0090	0.0031
Mercury	71280-05-30 08:53 G	27755695.75	27755695.87	27755696.02	0.0090	0.0040
Mercury	71280-08-26 11:03 G	27755783.84	27755783.96	27755784.09	0.0090	0.0048
Moon	71280-08-27 03:51 G	27755784.65	27755784.66	27755784.72	0.0090	0.0089
Earth	71280-08-27 07:27 G	27755784.75	27755784.81	27755784.93	0.0090	0.0084
Mercury	71280-11-22 12:58 G	27755871.93	27755872.04	27755872.16	0.0090	0.0056
Mercury	71281-02-18 14:39 G	27755960.02	27755960.11	27755960.22	0.0089	0.0065
Mercury	71281-05-17 16:34 G	27756048.12	27756048.19	27756048.29	0.0089	0.0073
Mercury	71281-08-13 18:29 G	27756136.22	27756136.27	27756136.34	0.0089	0.0081
Mercury	71281-11-09 20:24 G	27756224.34	27756224.35	27756224.37	0.0089	0.0089
Mars	71307-11-17 23:03 G	27765727.15	27765727.46	27765727.81	0.0089	0.0021
Venus	71337-12-09 09:07 G	27776706.84	27776706.88	27776706.95	0.0088	0.0085
Venus	71338-07-22 22:05 G	27776932.34	27776932.42	27776932.53	0.0088	0.0079
Venus	71339-03-05 10:34 G	27777157.85	27777157.94	27777158.09	0.0088	0.0074
Venus	71339-10-16 23:46 G	27777383.37	27777383.49	27777383.65	0.0088	0.0068
Venus	71340-05-29 12:43 G	27777608.89	27777609.03	27777609.20	0.0088	0.0062
Venus	71341-01-10 01:41 G	27777834.41	27777834.57	27777834.75	0.0088	0.0056
Venus	71341-08-23 14:39 G	27778059.93	27778060.11	27778060.30	0.0088	0.0050

Venus	71342-04-06 03:36 G	27778285.46	27778285.65	27778285.84	0.0088	0.0044
Venus	71342-11-17 16:34 G	27778510.99	27778511.19	27778511.39	0.0088	0.0038
Venus	71343-07-01 05:31 G	27778736.52	27778736.73	27778736.93	0.0088	0.0032
Venus	71344-02-11 18:15 G	27778962.05	27778962.26	27778962.47	0.0088	0.0026
Venus	71344-09-24 06:58 G	27779187.58	27779187.79	27779188.01	0.0088	0.0020
Venus	71345-05-07 19:55 G	27779413.11	27779413.33	27779413.55	0.0088	0.0014
Venus	71345-12-19 08:39 G	27779638.64	27779638.86	27779639.08	0.0088	0.0008
Venus	71346-08-01 21:22 G	27779864.17	27779864.39	27779864.61	0.0088	0.0002
Venus	71347-03-15 10:05 G	27780089.70	27780089.92	27780090.14	0.0088	0.0004
Venus	71347-10-26 23:03 G	27780315.24	27780315.46	27780315.68	0.0088	0.0010
Venus	71348-06-08 11:46 G	27780540.77	27780540.99	27780541.21	0.0088	0.0016
Venus	71349-01-20 00:29 G	27780766.30	27780766.52	27780766.73	0.0088	0.0022
Venus	71349-09-02 12:58 G	27780991.84	27780992.04	27780992.26	0.0088	0.0028
Venus	71350-04-16 01:41 G	27781217.37	27781217.57	27781217.78	0.0088	0.0034
Venus	71350-11-27 14:39 G	27781442.92	27781443.11	27781443.31	0.0088	0.0040
Venus	71351-07-11 03:07 G	27781668.46	27781668.63	27781668.83	0.0088	0.0046
Venus	71352-02-21 15:51 G	27781894.00	27781894.16	27781894.35	0.0088	0.0052
Venus	71352-10-04 04:34 G	27782119.54	27782119.69	27782119.87	0.0088	0.0058
Venus	71353-05-17 17:17 G	27782345.09	27782345.22	27782345.39	0.0088	0.0064
Venus	71353-12-29 06:00 G	27782570.64	27782570.75	27782570.91	0.0088	0.0070
Venus	71354-08-11 18:58 G	27782796.19	27782796.29	27782796.42	0.0088	0.0075
Venus	71355-03-25 07:41 G	27783021.75	27783021.82	27783021.92	0.0088	0.0081
Venus	71355-11-05 20:10 G	27783247.34	27783247.34	27783247.41	0.0088	0.0087
Moon	71358-02-16 21:07 G	27784081.22	27784081.38	27784081.55	0.0088	0.0068
Earth	71358-02-16 21:22 G	27784081.25	27784081.39	27784081.58	0.0088	0.0067 *
Earth	71359-02-19 09:07 G	27784448.67	27784448.88	27784449.13	0.0088	0.0040
Moon	71359-02-19 11:31 G	27784448.76	27784448.98	27784449.22	0.0088	0.0039 *
Mercury	71359-12-24 04:19 G	27784756.65	27784756.68	27784756.73	0.0088	0.0085
Moon	71360-02-21 18:43 G	27784816.02	27784816.28	27784816.55	0.0088	0.0014
Earth	71360-02-21 21:22 G	27784816.14	27784816.39	27784816.65	0.0088	0.0013 *

Mercury	71360-03-21 06:58 G	27784844.71	27784844.79	27784844.86	0.0088	0.0076
Mercury	71360-06-17 08:53 G	27784932.78	27784932.87	27784932.98	0.0088	0.0068
Mercury	71360-09-13 11:03 G	27785020.85	27785020.96	27785021.09	0.0088	0.0060
Mercury	71360-12-10 13:27 G	27785108.93	27785109.06	27785109.20	0.0088	0.0051
Earth	71361-02-23 09:07 G	27785183.63	27785183.88	27785184.15	0.0088	0.0015
Moon	71361-02-23 12:43 G	27785183.78	27785184.03	27785184.29	0.0088	0.0017 *
Mercury	71361-03-08 15:36 G	27785197.02	27785197.15	27785197.30	0.0088	0.0043
Mercury	71361-06-04 18:00 G	27785285.10	27785285.25	27785285.40	0.0088	0.0034
Mercury	71361-08-31 20:10 G	27785373.19	27785373.34	27785373.50	0.0088	0.0025
Mercury	71361-11-27 22:34 G	27785461.28	27785461.44	27785461.60	0.0088	0.0017
Mercury	71362-02-24 00:43 G	27785549.37	27785549.53	27785549.70	0.0088	0.0008
Moon	71362-02-25 17:17 G	27785551.00	27785551.22	27785551.46	0.0088	0.0041
Earth	71362-02-25 20:53 G	27785551.15	27785551.37	27785551.61	0.0088	0.0042 *
Mercury	71362-05-23 03:07 G	27785637.47	27785637.63	27785637.80	0.0088	0.0001
Mercury	71362-08-19 05:31 G	27785725.56	27785725.73	27785725.89	0.0088	0.0010
Mercury	71362-11-15 07:41 G	27785813.66	27785813.82	27785813.99	0.0088	0.0018
Mercury	71363-02-11 10:05 G	27785901.76	27785901.92	27785902.08	0.0088	0.0027
Earth	71363-02-28 08:39 G	27785918.71	27785918.86	27785919.03	0.0088	0.0069
Moon	71363-02-28 11:46 G	27785918.86	27785918.99	27785919.16	0.0088	0.0072 *
Mercury	71363-05-10 12:29 G	27785989.87	27785990.02	27785990.17	0.0088	0.0036
Mercury	71363-08-06 14:39 G	27786077.98	27786078.11	27786078.26	0.0088	0.0045
Mercury	71363-11-02 17:03 G	27786166.09	27786166.21	27786166.35	0.0088	0.0054
Mercury	71364-01-29 19:27 G	27786254.20	27786254.31	27786254.43	0.0088	0.0063
Mercury	71364-04-26 21:51 G	27786342.32	27786342.41	27786342.51	0.0088	0.0072
Mercury	71364-07-24 00:15 G	27786430.46	27786430.51	27786430.58	0.0088	0.0081
Mars	71391-07-08 04:48 G	27796275.42	27796275.70	27796275.99	0.0089	0.0026
Jupiter	71405-09-16 01:41 G	27801458.46	27801458.57	27801458.83	0.0089	0.0085
Venus	71420-09-07 01:27 G	27806928.50	27806928.56	27806928.65	0.0090	0.0084
Venus	71421-04-20 14:53 G	27807154.02	27807154.12	27807154.24	0.0090	0.0078
Venus	71421-12-02 03:51 G	27807379.55	27807379.66	27807379.81	0.0090	0.0072



Venus	71422-07-15 17:03 G	27807605.08	27807605.21	27807605.37	0.0090	0.0066
Venus	71423-02-26 06:00 G	27807830.61	27807830.75	27807830.93	0.0090	0.0060
Venus	71423-10-09 19:41 G	27808056.14	27808056.32	27808056.49	0.0090	0.0053
Venus	71424-05-22 08:39 G	27808281.68	27808281.86	27808282.05	0.0090	0.0047
Venus	71425-01-02 21:36 G	27808507.22	27808507.40	27808507.61	0.0090	0.0041
Venus	71425-08-16 10:48 G	27808732.76	27808732.95	27808733.16	0.0090	0.0035
Venus	71426-03-30 00:15 G	27808958.30	27808958.51	27808958.72	0.0090	0.0028
Venus	71426-11-10 13:12 G	27809183.85	27809184.05	27809184.27	0.0090	0.0022
Venus	71427-06-24 02:24 G	27809409.40	27809409.60	27809409.83	0.0090	0.0016
Venus	71428-02-04 15:51 G	27809634.94	27809635.16	27809635.38	0.0090	0.0009
Venus	71428-09-17 05:03 G	27809860.49	27809860.71	27809860.93	0.0090	0.0003
Venus	71429-04-30 18:29 G	27810086.05	27810086.27	27810086.49	0.0090	0.0004
Venus	71429-12-12 07:41 G	27810311.60	27810311.82	27810312.04	0.0090	0.0010
Venus	71430-07-25 20:53 G	27810537.16	27810537.37	27810537.59	0.0090	0.0017
Venus	71431-03-08 10:05 G	27810762.71	27810762.92	27810763.14	0.0090	0.0023
Venus	71431-10-19 23:17 G	27810988.27	27810988.47	27810988.69	0.0090	0.0030
Venus	71432-06-01 12:43 G	27811213.84	27811214.03	27811214.24	0.0090	0.0036
Venus	71433-01-13 02:10 G	27811439.40	27811439.59	27811439.78	0.0090	0.0042
Venus	71433-08-26 15:07 G	27811664.96	27811665.13	27811665.33	0.0090	0.0049
Venus	71434-04-09 04:19 G	27811890.52	27811890.68	27811890.87	0.0090	0.0055
Venus	71434-11-20 17:46 G	27812116.09	27812116.24	27812116.41	0.0090	0.0061
Venus	71435-07-04 06:43 G	27812341.66	27812341.78	27812341.95	0.0090	0.0068
Venus	71436-02-14 19:55 G	27812567.23	27812567.33	27812567.48	0.0090	0.0074
Venus	71436-09-27 09:22 G	27812792.81	27812792.89	27812793.01	0.0090	0.0080
Venus	71437-05-10 22:48 G	27813018.40	27813018.45	27813018.53	0.0090	0.0086
Moon	71439-08-18 01:41 G	27813847.45	27813847.57	27813847.73	0.0090	0.0076
Earth	71439-08-18 03:22 G	27813847.51	27813847.64	27813847.80	0.0090	0.0073 *
Earth	71440-08-19 14:39 G	27814214.90	27814215.11	27814215.34	0.0090	0.0045
Moon	71440-08-19 16:34 G	27814215.00	27814215.19	27814215.43	0.0090	0.0043 *
Mercury	71441-07-16 01:12 G	27814545.54	27814545.55	27814545.58	0.0090	0.0089

Moon	71441-08-21 23:17 G	27814582.22	27814582.47	27814582.72	0.0090	0.0019
Earth	71441-08-22 02:10 G	27814582.35	27814582.59	27814582.85	0.0090	0.0017 *
Mercury	71441-10-12 03:22 G	27814633.58	27814633.64	27814633.71	0.0090	0.0080
Mercury	71442-01-08 05:17 G	27814721.64	27814721.72	27814721.82	0.0090	0.0071
Mercury	71442-04-06 07:12 G	27814809.71	27814809.80	27814809.93	0.0090	0.0063
Mercury	71442-07-03 09:22 G	27814897.78	27814897.89	27814898.03	0.0090	0.0054
Earth	71442-08-24 13:55 G	27814949.82	27814950.08	27814950.33	0.0090	0.0012
Moon	71442-08-24 17:17 G	27814949.98	27814950.22	27814950.48	0.0090	0.0015 *
Mercury	71442-09-29 11:31 G	27814985.86	27814985.98	27814986.12	0.0090	0.0045
Mercury	71442-12-26 13:41 G	27815073.93	27815074.07	27815074.21	0.0090	0.0036
Mercury	71443-03-24 15:36 G	27815162.01	27815162.15	27815162.30	0.0090	0.0028
Mercury	71443-06-20 17:46 G	27815250.09	27815250.24	27815250.39	0.0090	0.0019
Moon	71443-08-26 21:36 G	27815317.19	27815317.40	27815317.64	0.0090	0.0038
Earth	71443-08-27 00:58 G	27815317.33	27815317.54	27815317.78	0.0090	0.0041 *
Mercury	71443-09-16 19:41 G	27815338.17	27815338.32	27815338.48	0.0090	0.0010
Mercury	71443-12-13 21:51 G	27815426.26	27815426.41	27815426.56	0.0090	0.0002
Mercury	71444-03-10 23:46 G	27815514.34	27815514.49	27815514.64	0.0090	0.0007
Mercury	71444-06-07 01:41 G	27815602.42	27815602.57	27815602.72	0.0090	0.0016
Earth	71444-08-28 12:15 G	27815684.87	27815685.01	27815685.20	0.0090	0.0069
Moon	71444-08-28 15:22 G	27815685.01	27815685.14	27815685.33	0.0090	0.0071 *
Mercury	71444-09-03 03:36 G	27815690.51	27815690.65	27815690.80	0.0090	0.0024
Mercury	71444-11-30 05:31 G	27815778.60	27815778.73	27815778.88	0.0090	0.0033
Mercury	71445-02-26 07:27 G	27815866.68	27815866.81	27815866.95	0.0090	0.0041
Mercury	71445-05-25 09:22 G	27815954.77	27815954.89	27815955.02	0.0090	0.0050
Mercury	71445-08-21 11:31 G	27816042.86	27816042.98	27816043.09	0.0090	0.0058
Mercury	71445-11-17 12:58 G	27816130.96	27816131.04	27816131.16	0.0089	0.0067
Mercury	71446-02-13 15:07 G	27816219.06	27816219.13	27816219.22	0.0089	0.0075
Mercury	71446-05-12 17:03 G	27816307.16	27816307.21	27816307.27	0.0089	0.0083
Mars	71471-07-02 06:43 G	27825488.52	27825488.78	27825489.06	0.0089	0.0054
Venus	71502-03-14 17:31 G	27836701.21	27836701.23	27836701.29	0.0088	0.0086

Venus	71502-10-26 06:43 G	27836926.70	27836926.78	27836926.88	0.0088	0.0080
Venus	71503-06-08 19:12 G	27837152.21	27837152.30	27837152.44	0.0088	0.0075
Venus	71504-01-20 08:10 G	27837377.72	27837377.84	27837378.00	0.0088	0.0069
Venus	71504-09-01 21:07 G	27837603.24	27837603.38	27837603.55	0.0088	0.0063
Venus	71505-04-15 10:05 G	27837828.76	27837828.92	27837829.10	0.0088	0.0057
Venus	71505-11-26 23:03 G	27838054.29	27838054.46	27838054.66	0.0088	0.0051
Venus	71506-07-10 12:00 G	27838279.82	27838280.00	27838280.20	0.0088	0.0045
Venus	71507-02-21 00:58 G	27838505.35	27838505.54	27838505.75	0.0088	0.0039
Venus	71507-10-04 13:55 G	27838730.88	27838731.08	27838731.29	0.0088	0.0033
Venus	71508-05-17 02:39 G	27838956.41	27838956.61	27838956.83	0.0088	0.0027
Venus	71508-12-28 15:36 G	27839181.94	27839182.15	27839182.37	0.0088	0.0021
Venus	71509-08-11 04:34 G	27839407.47	27839407.69	27839407.91	0.0088	0.0014
Venus	71510-03-24 17:17 G	27839633.01	27839633.22	27839633.45	0.0088	0.0009
Venus	71510-11-05 06:29 G	27839858.54	27839858.77	27839858.99	0.0088	0.0003
Venus	71511-06-18 19:12 G	27840084.08	27840084.30	27840084.52	0.0088	0.0004
Venus	71512-01-30 07:55 G	27840309.61	27840309.83	27840310.05	0.0088	0.0010
Venus	71512-09-11 20:39 G	27840535.14	27840535.36	27840535.58	0.0088	0.0016
Venus	71513-04-25 09:22 G	27840760.68	27840760.89	27840761.11	0.0088	0.0022
Venus	71513-12-06 22:05 G	27840986.22	27840986.42	27840986.64	0.0088	0.0028
Venus	71514-07-20 10:48 G	27841211.75	27841211.95	27841212.16	0.0088	0.0034
Venus	71515-03-02 23:31 G	27841437.29	27841437.48	27841437.68	0.0088	0.0040
Venus	71515-10-14 12:15 G	27841662.83	27841663.01	27841663.21	0.0088	0.0046
Venus	71516-05-27 00:58 G	27841888.37	27841888.54	27841888.73	0.0088	0.0052
Venus	71517-01-07 13:41 G	27842113.92	27842114.07	27842114.25	0.0088	0.0058
Venus	71517-08-21 02:10 G	27842339.46	27842339.59	27842339.76	0.0088	0.0064
Venus	71518-04-03 14:53 G	27842565.01	27842565.12	27842565.28	0.0088	0.0070
Venus	71518-11-15 03:36 G	27842790.57	27842790.65	27842790.79	0.0088	0.0076
Venus	71519-06-28 16:48 G	27843016.13	27843016.20	27843016.29	0.0088	0.0081
Venus	71520-02-09 05:17 G	27843241.71	27843241.72	27843241.77	0.0088	0.0087
Earth	71522-02-18 02:39 G	27843981.53	27843981.61	27843981.74	0.0088	0.0080

Moon	71522-02-18 05:03 G	27843981.67	27843981.71	27843981.79	0.0088	0.0085 *
Moon	71523-02-20 11:17 G	27844348.76	27844348.97	27844349.21	0.0088	0.0048
Earth	71523-02-20 14:53 G	27844348.92	27844349.12	27844349.34	0.0088	0.0053 *
Earth	71524-02-23 02:39 G	27844716.37	27844716.61	27844716.87	0.0088	0.0026
Moon	71524-02-23 06:29 G	27844716.52	27844716.77	27844717.01	0.0088	0.0030 *
Mercury	71524-09-21 02:39 G	27844927.57	27844927.61	27844927.69	0.0088	0.0082
Mercury	71524-12-18 05:03 G	27845015.63	27845015.71	27845015.81	0.0088	0.0073
Moon	71525-02-24 11:03 G	27845083.71	27845083.96	27845084.22	0.0088	0.0006
Earth	71525-02-24 14:53 G	27845083.86	27845084.12	27845084.38	0.0088	0.0001 *
Mercury	71525-03-16 07:12 G	27845103.70	27845103.80	27845103.92	0.0088	0.0065
Mercury	71525-06-12 09:36 G	27845191.78	27845191.90	27845192.03	0.0088	0.0056
Mercury	71525-09-08 11:46 G	27845279.86	27845279.99	27845280.13	0.0088	0.0048
Mercury	71525-12-05 14:10 G	27845367.94	27845368.09	27845368.23	0.0088	0.0039
Earth	71526-02-27 02:10 G	27845451.36	27845451.59	27845451.85	0.0088	0.0029
Moon	71526-02-27 05:17 G	27845451.47	27845451.72	27845451.99	0.0088	0.0024 *
Mercury	71526-03-03 16:19 G	27845456.03	27845456.18	27845456.34	0.0088	0.0031
Mercury	71526-05-30 18:43 G	27845544.12	27845544.28	27845544.43	0.0088	0.0022
Mercury	71526-08-26 20:53 G	27845632.21	27845632.37	27845632.53	0.0088	0.0013
Mercury	71526-11-22 23:17 G	27845720.30	27845720.47	27845720.63	0.0088	0.0005
Mercury	71527-02-19 01:27 G	27845808.40	27845808.56	27845808.73	0.0088	0.0004
Moon	71527-03-01 12:00 G	27845818.83	27845819.00	27845819.19	0.0088	0.0060
Earth	71527-03-01 13:55 G	27845818.90	27845819.08	27845819.30	0.0088	0.0056 *
Mercury	71527-05-18 03:36 G	27845896.49	27845896.65	27845896.82	0.0088	0.0013
Mercury	71527-08-14 06:00 G	27845984.59	27845984.75	27845984.91	0.0088	0.0021
Mercury	71527-11-10 08:24 G	27846072.70	27846072.85	27846073.01	0.0088	0.0030
Mercury	71528-02-06 10:34 G	27846160.80	27846160.94	27846161.10	0.0088	0.0039
Earth	71528-03-03 01:41 G	27846186.51	27846186.57	27846186.67	0.0088	0.0083
Moon	71528-03-03 03:22 G	27846186.53	27846186.64	27846186.77	0.0088	0.0078 *
Mercury	71528-05-04 12:58 G	27846248.91	27846249.04	27846249.18	0.0088	0.0048
Mercury	71528-07-31 15:07 G	27846337.02	27846337.13	27846337.27	0.0088	0.0057

Mercury	71528-10-27 17:31 G	27846425.13	27846425.23	27846425.35	0.0088	0.0066
Mercury	71529-01-23 19:55 G	27846513.26	27846513.33	27846513.43	0.0088	0.0075
Mercury	71529-04-21 22:19 G	27846601.40	27846601.43	27846601.49	0.0088	0.0084
Mars	71555-02-22 10:34 G	27856038.68	27856038.94	27856039.21	0.0089	0.0038
Jupiter	71571-11-19 22:05 G	27862153.00	27862153.42	27862153.92	0.0089	0.0049
Venus	71584-12-10 09:07 G	27866922.84	27866922.88	27866922.97	0.0090	0.0086
Venus	71585-07-23 22:19 G	27867148.35	27867148.43	27867148.55	0.0090	0.0080
Venus	71586-03-06 11:46 G	27867373.88	27867373.99	27867374.13	0.0090	0.0073
Venus	71586-10-18 00:58 G	27867599.41	27867599.54	27867599.69	0.0090	0.0067
Venus	71587-05-31 13:55 G	27867824.94	27867825.08	27867825.26	0.0090	0.0061
Venus	71588-01-12 03:07 G	27868050.47	27868050.63	27868050.82	0.0090	0.0055
Venus	71588-08-24 16:34 G	27868276.01	27868276.19	27868276.38	0.0090	0.0048
Venus	71589-04-07 05:31 G	27868501.55	27868501.73	27868501.94	0.0090	0.0042
Venus	71589-11-18 18:43 G	27868727.09	27868727.28	27868727.49	0.0090	0.0036
Venus	71590-07-02 08:10 G	27868952.63	27868952.84	27868953.05	0.0090	0.0029
Venus	71591-02-12 21:07 G	27869178.18	27869178.38	27869178.60	0.0090	0.0023
Venus	71591-09-26 10:05 G	27869403.72	27869403.92	27869404.15	0.0090	0.0017
Venus	71592-05-08 23:46 G	27869629.27	27869629.49	27869629.71	0.0090	0.0010
Venus	71592-12-20 12:58 G	27869854.82	27869855.04	27869855.26	0.0090	0.0004
Venus	71593-08-03 01:55 G	27870080.37	27870080.58	27870080.80	0.0090	0.0004
Venus	71594-03-16 15:07 G	27870305.92	27870306.13	27870306.35	0.0090	0.0010
Venus	71594-10-28 04:19 G	27870531.47	27870531.68	27870531.90	0.0090	0.0016
Venus	71595-06-10 17:31 G	27870757.03	27870757.23	27870757.45	0.0090	0.0023
Venus	71596-01-22 06:43 G	27870982.58	27870982.78	27870983.00	0.0090	0.0029
Venus	71596-09-03 20:10 G	27871208.14	27871208.34	27871208.54	0.0090	0.0035
Venus	71597-04-17 09:22 G	27871433.71	27871433.89	27871434.09	0.0090	0.0042
Venus	71597-11-28 22:48 G	27871659.27	27871659.45	27871659.64	0.0090	0.0048
Venus	71598-07-12 11:46 G	27871884.83	27871884.99	27871885.18	0.0090	0.0055
Venus	71599-02-23 00:58 G	27872110.40	27872110.54	27872110.72	0.0090	0.0061
Venus	71599-10-06 14:24 G	27872335.97	27872336.10	27872336.26	0.0090	0.0067

Venus	71600-05-19 04:05 G	27872561.55	27872561.67	27872561.79	0.0090	0.0073
Venus	71600-12-30 16:48 G	27872787.12	27872787.20	27872787.32	0.0090	0.0080
Venus	71601-08-13 06:00 G	27873012.71	27873012.75	27873012.84	0.0090	0.0086
Earth	71603-08-18 07:55 G	27873747.80	27873747.83	27873747.90	0.0090	0.0088
Moon	71603-08-18 10:48 G	27873747.90	27873747.95	27873748.06	0.0090	0.0085 *
Moon	71604-08-19 15:51 G	27874115.00	27874115.16	27874115.37	0.0090	0.0063
Earth	71604-08-19 19:12 G	27874115.14	27874115.30	27874115.52	0.0090	0.0060 *
Earth	71605-08-22 06:43 G	27874482.56	27874482.78	27874483.03	0.0090	0.0032
Moon	71605-08-22 10:19 G	27874482.70	27874482.93	27874483.19	0.0090	0.0028 *
Mercury	71606-04-12 23:31 G	27874716.45	27874716.48	27874716.52	0.0090	0.0087
Mercury	71606-07-10 01:12 G	27874804.50	27874804.55	27874804.64	0.0090	0.0079
Moon	71606-08-24 15:07 G	27874849.88	27874850.13	27874850.38	0.0090	0.0007
Earth	71606-08-24 18:29 G	27874850.01	27874850.27	27874850.52	0.0090	0.0003 *
Mercury	71606-10-06 03:22 G	27874892.56	27874892.64	27874892.75	0.0090	0.0070
Mercury	71607-01-02 05:31 G	27874980.63	27874980.73	27874980.86	0.0090	0.0061
Mercury	71607-03-31 07:41 G	27875068.70	27875068.82	27875068.95	0.0090	0.0052
Mercury	71607-06-27 09:51 G	27875156.78	27875156.91	27875157.05	0.0090	0.0043
Earth	71607-08-27 05:17 G	27875217.50	27875217.72	27875217.98	0.0090	0.0026
Moon	71607-08-27 08:10 G	27875217.60	27875217.84	27875218.09	0.0090	0.0029 *
Mercury	71607-09-23 11:46 G	27875244.86	27875244.99	27875245.14	0.0090	0.0035
Mercury	71607-12-20 13:55 G	27875332.94	27875333.08	27875333.23	0.0090	0.0026
Mercury	71608-03-17 16:05 G	27875421.02	27875421.17	27875421.32	0.0090	0.0017
Mercury	71608-06-13 18:00 G	27875509.10	27875509.25	27875509.40	0.0090	0.0008
Moon	71608-08-28 15:07 G	27875584.94	27875585.13	27875585.35	0.0090	0.0050
Earth	71608-08-28 16:48 G	27875585.01	27875585.20	27875585.42	0.0090	0.0054 *
Mercury	71608-09-09 19:55 G	27875597.18	27875597.33	27875597.49	0.0090	0.0003
Mercury	71608-12-06 22:05 G	27875685.27	27875685.42	27875685.57	0.0090	0.0009
Mercury	71609-03-05 00:00 G	27875773.35	27875773.50	27875773.65	0.0090	0.0018
Mercury	71609-06-01 01:55 G	27875861.44	27875861.58	27875861.73	0.0090	0.0026
Mercury	71609-08-28 03:51 G	27875949.53	27875949.66	27875949.80	0.0090	0.0035

Earth	71609-08-31 04:05 G	27875952.59	27875952.67	27875952.80	0.0090	0.0082
Moon	71609-08-31 04:34 G	27875952.62	27875952.69	27875952.78	0.0090	0.0085 *
Mercury	71609-11-24 05:31 G	27876037.61	27876037.73	27876037.88	0.0090	0.0044
Mercury	71610-02-20 07:41 G	27876125.70	27876125.82	27876125.95	0.0090	0.0052
Mercury	71610-05-19 09:36 G	27876213.80	27876213.90	27876214.02	0.0089	0.0060
Mercury	71610-08-15 11:17 G	27876301.89	27876301.97	27876302.08	0.0089	0.0069
Mercury	71610-11-11 13:12 G	27876389.99	27876390.05	27876390.14	0.0089	0.0077
Mercury	71611-02-07 15:22 G	27876478.10	27876478.14	27876478.19	0.0089	0.0085
Mars	71637-01-09 12:58 G	27885945.76	27885946.04	27885946.38	0.0089	0.0036
Venus	71666-06-16 02:24 G	27896695.59	27896695.60	27896695.65	0.0088	0.0087
Venus	71667-01-27 15:22 G	27896921.07	27896921.14	27896921.24	0.0088	0.0081
Venus	71667-09-10 04:19 G	27897146.58	27897146.68	27897146.80	0.0088	0.0075
Venus	71668-04-22 17:31 G	27897372.09	27897372.23	27897372.36	0.0088	0.0069
Venus	71668-12-04 05:46 G	27897597.61	27897597.74	27897597.92	0.0088	0.0064
Venus	71669-07-17 18:43 G	27897823.13	27897823.28	27897823.47	0.0088	0.0058
Venus	71670-02-28 07:41 G	27898048.66	27898048.82	27898049.01	0.0088	0.0052
Venus	71670-10-11 20:39 G	27898274.18	27898274.36	27898274.56	0.0088	0.0046
Venus	71671-05-25 09:22 G	27898499.71	27898499.89	27898500.11	0.0088	0.0040
Venus	71672-01-05 22:19 G	27898725.24	27898725.43	27898725.65	0.0088	0.0034
Venus	71672-08-18 11:03 G	27898950.77	27898950.96	27898951.19	0.0088	0.0028
Venus	71673-04-01 00:00 G	27899176.30	27899176.50	27899176.73	0.0088	0.0022
Venus	71673-11-12 13:27 G	27899401.84	27899402.06	27899402.28	0.0088	0.0015
Venus	71674-06-26 02:10 G	27899627.37	27899627.59	27899627.81	0.0088	0.0009
Venus	71675-02-06 14:53 G	27899852.90	27899853.12	27899853.35	0.0088	0.0004
Venus	71675-09-20 03:51 G	27900078.44	27900078.66	27900078.88	0.0088	0.0003
Venus	71676-05-02 16:34 G	27900303.97	27900304.19	27900304.41	0.0088	0.0010
Venus	71676-12-14 05:31 G	27900529.51	27900529.73	27900529.95	0.0088	0.0016
Venus	71677-07-27 18:15 G	27900755.05	27900755.26	27900755.48	0.0088	0.0022
Venus	71678-03-10 06:58 G	27900980.59	27900980.79	27900981.01	0.0088	0.0028
Venus	71678-10-21 19:41 G	27901206.13	27901206.32	27901206.53	0.0088	0.0034

Venus	71679-06-04 08:24 G	27901431.66	27901431.85	27901432.06	0.0088	0.0040
Venus	71680-01-15 21:07 G	27901657.20	27901657.38	27901657.58	0.0088	0.0046
Venus	71680-08-28 09:51 G	27901882.74	27901882.91	27901883.10	0.0088	0.0052
Venus	71681-04-10 22:34 G	27902108.29	27902108.44	27902108.62	0.0088	0.0058
Venus	71681-11-22 11:17 G	27902333.84	27902333.97	27902334.14	0.0088	0.0064
Venus	71682-07-06 00:00 G	27902559.39	27902559.50	27902559.65	0.0088	0.0070
Venus	71683-02-16 12:29 G	27902784.94	27902785.02	27902785.16	0.0088	0.0076
Venus	71683-09-30 01:41 G	27903010.50	27903010.57	27903010.66	0.0088	0.0081
Venus	71684-05-12 14:10 G	27903236.08	27903236.09	27903236.13	0.0088	0.0087
Earth	71687-02-19 20:10 G	27904249.19	27904249.34	27904249.53	0.0088	0.0066
Moon	71687-02-20 00:00 G	27904249.35	27904249.50	27904249.69	0.0088	0.0066 *
Moon	71688-02-22 05:31 G	27904616.51	27904616.73	27904616.97	0.0088	0.0039
Earth	71688-02-22 08:24 G	27904616.63	27904616.85	27904617.10	0.0088	0.0039 *
Earth	71689-02-23 20:24 G	27904984.10	27904984.35	27904984.62	0.0088	0.0012
Moon	71689-02-23 23:17 G	27904984.22	27904984.47	27904984.75	0.0088	0.0013 *
Mercury	71689-03-21 23:17 G	27905010.45	27905010.47	27905010.50	0.0088	0.0086
Mercury	71689-06-18 01:12 G	27905098.49	27905098.55	27905098.64	0.0088	0.0078
Mercury	71689-09-14 03:22 G	27905186.56	27905186.64	27905186.75	0.0088	0.0070
Mercury	71689-12-11 05:46 G	27905274.63	27905274.74	27905274.86	0.0088	0.0061
Moon	71690-02-26 06:58 G	27905351.54	27905351.79	27905352.04	0.0088	0.0016
Earth	71690-02-26 08:24 G	27905351.60	27905351.85	27905352.11	0.0088	0.0016 *
Mercury	71690-03-09 07:55 G	27905362.71	27905362.83	27905362.97	0.0088	0.0053
Mercury	71690-06-05 10:19 G	27905450.79	27905450.93	27905451.07	0.0088	0.0044
Mercury	71690-09-01 12:29 G	27905538.88	27905539.02	27905539.17	0.0088	0.0036
Mercury	71690-11-28 14:53 G	27905626.96	27905627.12	27905627.27	0.0088	0.0027
Mercury	71691-02-24 17:03 G	27905715.05	27905715.21	27905715.37	0.0088	0.0018
Earth	71691-02-28 19:55 G	27905719.12	27905719.33	27905719.58	0.0088	0.0043
Moon	71691-02-28 20:10 G	27905719.12	27905719.34	27905719.60	0.0088	0.0043 *
Mercury	71691-05-23 19:27 G	27905803.14	27905803.31	27905803.47	0.0088	0.0010
Mercury	71691-08-19 21:36 G	27905891.24	27905891.40	27905891.56	0.0088	0.0001



Mercury	71691-11-15 23:46 G	27905979.33	27905979.49	27905979.66	0.0088	0.0008
Mercury	71692-02-12 02:10 G	27906067.43	27906067.59	27906067.75	0.0088	0.0016
Earth	71692-03-02 07:41 G	27906086.69	27906086.82	27906087.00	0.0088	0.0070
Moon	71692-03-02 08:24 G	27906086.72	27906086.85	27906087.01	0.0088	0.0071 *
Mercury	71692-05-10 04:34 G	27906155.53	27906155.69	27906155.85	0.0088	0.0025
Mercury	71692-08-06 06:43 G	27906243.63	27906243.78	27906243.94	0.0088	0.0034
Mercury	71692-11-02 08:53 G	27906331.74	27906331.87	27906332.03	0.0088	0.0043
Mercury	71693-01-29 11:17 G	27906419.85	27906419.97	27906420.11	0.0088	0.0052
Mercury	71693-04-27 13:55 G	27906507.96	27906508.08	27906508.20	0.0088	0.0060
Mercury	71693-07-24 16:05 G	27906596.08	27906596.17	27906596.28	0.0088	0.0069
Mercury	71693-10-20 18:29 G	27906684.20	27906684.27	27906684.35	0.0088	0.0078
Mercury	71694-01-16 20:53 G	27906772.36	27906772.37	27906772.39	0.0088	0.0087
Mars	71720-09-01 11:31 G	27916495.74	27916495.98	27916496.26	0.0089	0.0041
Jupiter	71738-01-19 12:00 G	27922844.47	27922845.00	27922845.56	0.0089	0.0010
Venus	71749-03-14 17:03 G	27926917.18	27926917.21	27926917.28	0.0090	0.0087
Venus	71749-10-26 06:15 G	27927142.69	27927142.76	27927142.87	0.0090	0.0081
Venus	71750-06-08 19:27 G	27927368.21	27927368.31	27927368.45	0.0090	0.0075
Venus	71751-01-20 08:53 G	27927593.74	27927593.87	27927594.02	0.0090	0.0068
Venus	71751-09-02 21:51 G	27927819.27	27927819.41	27927819.58	0.0090	0.0062
Venus	71752-04-15 11:03 G	27928044.81	27928044.96	27928045.15	0.0090	0.0056
Venus	71752-11-27 00:15 G	27928270.35	27928270.51	27928270.71	0.0090	0.0050
Venus	71753-07-10 13:41 G	27928495.88	27928496.07	27928496.27	0.0090	0.0043
Venus	71754-02-21 02:39 G	27928721.42	27928721.61	27928721.82	0.0090	0.0037
Venus	71754-10-04 16:05 G	27928946.96	27928947.17	27928947.38	0.0090	0.0030
Venus	71755-05-18 05:03 G	27929172.51	27929172.71	27929172.93	0.0090	0.0024
Venus	71755-12-29 18:29 G	27929398.06	27929398.27	27929398.49	0.0090	0.0017
Venus	71756-08-11 07:27 G	27929623.60	27929623.81	27929624.03	0.0090	0.0011
Venus	71757-03-24 20:39 G	27929849.15	27929849.36	27929849.58	0.0090	0.0005
Venus	71757-11-05 09:51 G	27930074.70	27930074.91	27930075.13	0.0090	0.0003
Venus	71758-06-18 23:17 G	27930300.25	27930300.47	27930300.69	0.0090	0.0009

Venus	71759-01-30 12:15 G	27930525.80	27930526.01	27930526.23	0.0090	0.0015
Venus	71759-09-13 01:27 G	27930751.35	27930751.56	27930751.78	0.0090	0.0022
Venus	71760-04-25 14:53 G	27930976.91	27930977.12	27930977.33	0.0090	0.0028
Venus	71760-12-07 03:51 G	27931202.47	27931202.66	27931202.87	0.0090	0.0035
Venus	71761-07-20 17:17 G	27931428.03	27931428.22	27931428.42	0.0090	0.0041
Venus	71762-03-03 06:15 G	27931653.59	27931653.76	27931653.96	0.0090	0.0048
Venus	71762-10-14 19:41 G	27931879.15	27931879.32	27931879.50	0.0090	0.0054
Venus	71763-05-28 08:53 G	27932104.73	27932104.87	27932105.05	0.0090	0.0061
Venus	71764-01-08 22:05 G	27932330.30	27932330.42	27932330.59	0.0090	0.0067
Venus	71764-08-21 11:31 G	27932555.87	27932555.98	27932556.12	0.0090	0.0073
Venus	71765-04-04 00:58 G	27932781.45	27932781.54	27932781.65	0.0090	0.0079
Venus	71765-11-15 13:55 G	27933007.04	27933007.08	27933007.17	0.0090	0.0086
Earth	71768-08-20 00:58 G	27934015.42	27934015.54	27934015.71	0.0090	0.0074
Moon	71768-08-20 04:19 G	27934015.58	27934015.68	27934015.83	0.0090	0.0078 *
Moon	71769-08-22 09:22 G	27934382.69	27934382.89	27934383.13	0.0090	0.0043
Earth	71769-08-22 12:29 G	27934382.82	27934383.02	27934383.26	0.0090	0.0046 *
Earth	71770-08-25 00:00 G	27934750.26	27934750.50	27934750.76	0.0090	0.0018
Moon	71770-08-25 01:55 G	27934750.34	27934750.58	27934750.85	0.0090	0.0022 *
Mercury	71771-01-08 21:51 G	27934887.37	27934887.41	27934887.47	0.0090	0.0085
Mercury	71771-04-07 00:00 G	27934975.42	27934975.50	27934975.59	0.0090	0.0076
Mercury	71771-07-04 02:10 G	27935063.49	27935063.59	27935063.69	0.0090	0.0067
Moon	71771-08-27 10:34 G	27935117.70	27935117.94	27935118.19	0.0090	0.0014
Earth	71771-08-27 11:17 G	27935117.72	27935117.97	27935118.23	0.0090	0.0011 *
Mercury	71771-09-30 04:19 G	27935151.56	27935151.68	27935151.79	0.0090	0.0058
Mercury	71771-12-27 06:00 G	27935239.64	27935239.75	27935239.89	0.0090	0.0050
Mercury	71772-03-24 08:10 G	27935327.71	27935327.84	27935327.99	0.0090	0.0041
Mercury	71772-06-20 10:19 G	27935415.79	27935415.93	27935416.08	0.0090	0.0032
Moon	71772-08-28 22:19 G	27935485.20	27935485.43	27935485.69	0.0090	0.0036
Earth	71772-08-28 22:19 G	27935485.22	27935485.43	27935485.68	0.0090	0.0039 *
Mercury	71772-09-16 12:15 G	27935503.87	27935504.01	27935504.17	0.0090	0.0024

Mercury	71772-12-13 14:24 G	27935591.95	27935592.10	27935592.25	0.0090	0.0015
Mercury	71773-03-11 16:34 G	27935680.04	27935680.19	27935680.34	0.0090	0.0006
Mercury	71773-06-07 18:29 G	27935768.12	27935768.27	27935768.42	0.0090	0.0003
Earth	71773-08-31 09:36 G	27935852.75	27935852.90	27935853.09	0.0090	0.0067
Moon	71773-08-31 11:17 G	27935852.83	27935852.97	27935853.14	0.0090	0.0071 *
Mercury	71773-09-03 20:24 G	27935856.20	27935856.35	27935856.50	0.0090	0.0012
Mercury	71773-11-30 22:34 G	27935944.29	27935944.44	27935944.58	0.0090	0.0020
Mercury	71774-02-27 00:15 G	27936032.38	27936032.51	27936032.66	0.0090	0.0029
Mercury	71774-05-26 02:24 G	27936120.46	27936120.60	27936120.74	0.0090	0.0037
Mercury	71774-08-22 04:05 G	27936208.55	27936208.67	27936208.81	0.0090	0.0046
Mercury	71774-11-18 06:15 G	27936296.64	27936296.76	27936296.88	0.0090	0.0054
Mercury	71775-02-14 07:55 G	27936384.74	27936384.83	27936384.95	0.0090	0.0063
Mercury	71775-05-13 09:51 G	27936472.83	27936472.91	27936473.01	0.0090	0.0071
Mercury	71775-08-09 12:00 G	27936560.93	27936561.00	27936561.07	0.0090	0.0079
Mercury	71775-11-05 13:55 G	27936649.05	27936649.08	27936649.11	0.0089	0.0087
Mars	71800-08-24 19:41 G	27945707.03	27945707.32	27945707.64	0.0089	0.0039
Venus	71831-05-03 00:29 G	27956915.45	27956915.52	27956915.60	0.0088	0.0082
Venus	71831-12-14 13:27 G	27957140.96	27957141.06	27957141.17	0.0088	0.0076
Venus	71832-07-27 02:24 G	27957366.47	27957366.60	27957366.73	0.0088	0.0070
Venus	71833-03-09 15:22 G	27957591.99	27957592.14	27957592.29	0.0088	0.0064
Venus	71833-10-21 04:19 G	27957817.51	27957817.68	27957817.85	0.0088	0.0058
Venus	71834-06-03 17:03 G	27958043.04	27958043.21	27958043.39	0.0088	0.0052
Venus	71835-01-15 05:46 G	27958268.56	27958268.74	27958268.94	0.0088	0.0046
Venus	71835-08-28 18:43 G	27958494.09	27958494.28	27958494.48	0.0088	0.0040
Venus	71836-04-10 07:27 G	27958719.61	27958719.81	27958720.02	0.0088	0.0034
Venus	71836-11-21 20:24 G	27958945.15	27958945.35	27958945.57	0.0088	0.0028
Venus	71837-07-05 09:22 G	27959170.68	27959170.89	27959171.11	0.0088	0.0022
Venus	71838-02-15 22:05 G	27959396.21	27959396.42	27959396.65	0.0088	0.0016
Venus	71838-09-29 11:03 G	27959621.75	27959621.96	27959622.19	0.0088	0.0010
Venus	71839-05-13 00:00 G	27959847.28	27959847.50	27959847.73	0.0088	0.0003

Venus	71839-12-24 12:58 G	27960072.82	27960073.04	27960073.26	0.0088	0.0003
Venus	71840-08-06 01:41 G	27960298.36	27960298.57	27960298.80	0.0088	0.0010
Venus	71841-03-19 14:24 G	27960523.89	27960524.10	27960524.33	0.0088	0.0016
Venus	71841-10-31 03:22 G	27960749.44	27960749.64	27960749.87	0.0088	0.0022
Venus	71842-06-13 16:19 G	27960974.97	27960975.18	27960975.40	0.0088	0.0028
Venus	71843-01-25 05:03 G	27961200.51	27961200.71	27961200.92	0.0088	0.0034
Venus	71843-09-07 17:46 G	27961426.05	27961426.24	27961426.44	0.0088	0.0040
Venus	71844-04-20 06:29 G	27961651.59	27961651.77	27961651.97	0.0088	0.0046
Venus	71844-12-01 19:27 G	27961877.14	27961877.31	27961877.50	0.0088	0.0052
Venus	71845-07-15 08:10 G	27962102.68	27962102.84	27962103.01	0.0088	0.0058
Venus	71846-02-25 20:53 G	27962328.23	27962328.37	27962328.53	0.0088	0.0064
Venus	71846-10-09 09:22 G	27962553.77	27962553.89	27962554.04	0.0088	0.0070
Venus	71847-05-22 22:05 G	27962779.33	27962779.42	27962779.55	0.0088	0.0076
Venus	71848-01-03 10:48 G	27963004.89	27963004.95	27963005.05	0.0088	0.0082
Venus	71848-08-15 23:31 G	27963230.48	27963230.48	27963230.51	0.0088	0.0088
Moon	71851-02-20 22:48 G	27964149.40	27964149.45	27964149.55	0.0088	0.0084
Earth	71851-02-21 01:55 G	27964149.49	27964149.58	27964149.72	0.0088	0.0079 *
Earth	71852-02-23 13:55 G	27964516.89	27964517.08	27964517.31	0.0088	0.0052
Moon	71852-02-23 16:05 G	27964516.95	27964517.17	27964517.41	0.0088	0.0047 *
Moon	71853-02-25 00:58 G	27964884.31	27964884.54	27964884.79	0.0088	0.0029
Earth	71853-02-25 01:55 G	27964884.35	27964884.58	27964884.85	0.0088	0.0025 *
Mercury	71853-12-18 21:36 G	27965181.36	27965181.40	27965181.46	0.0088	0.0083
Moon	71854-02-27 13:55 G	27965251.81	27965252.08	27965252.35	0.0088	0.0007
Earth	71854-02-27 14:24 G	27965251.84	27965252.10	27965252.36	0.0088	0.0003 *
Mercury	71854-03-16 23:46 G	27965269.42	27965269.49	27965269.59	0.0088	0.0075
Mercury	71854-06-13 02:10 G	27965357.49	27965357.59	27965357.70	0.0088	0.0066
Mercury	71854-09-09 04:05 G	27965445.56	27965445.67	27965445.81	0.0088	0.0058
Mercury	71854-12-06 06:29 G	27965533.64	27965533.77	27965533.91	0.0088	0.0049
Earth	71855-03-02 02:10 G	27965619.35	27965619.59	27965619.84	0.0088	0.0030
Moon	71855-03-02 03:51 G	27965619.43	27965619.66	27965619.91	0.0088	0.0026 *

Mercury	71855-03-04 08:39 G	27965621.73	27965621.86	27965622.01	0.0088	0.0041
Mercury	71855-05-31 11:03 G	27965709.81	27965709.96	27965710.11	0.0088	0.0032
Mercury	71855-08-27 13:12 G	27965797.90	27965798.05	27965798.21	0.0088	0.0024
Mercury	71855-11-23 15:36 G	27965885.99	27965886.15	27965886.31	0.0088	0.0015
Mercury	71856-02-19 17:46 G	27965974.08	27965974.24	27965974.40	0.0088	0.0006
Moon	71856-03-03 11:46 G	27965986.80	27965986.99	27965987.18	0.0088	0.0061
Earth	71856-03-03 13:41 G	27965986.89	27965987.07	27965987.29	0.0088	0.0057 *
Mercury	71856-05-17 20:10 G	27966062.17	27966062.34	27966062.50	0.0088	0.0003
Mercury	71856-08-13 22:19 G	27966150.27	27966150.43	27966150.60	0.0088	0.0011
Mercury	71856-11-10 00:29 G	27966238.37	27966238.52	27966238.69	0.0088	0.0020
Mercury	71857-02-06 02:53 G	27966326.47	27966326.62	27966326.78	0.0088	0.0029
Earth	71857-03-06 01:27 G	27966354.51	27966354.56	27966354.66	0.0088	0.0084
Moon	71857-03-06 04:48 G	27966354.61	27966354.70	27966354.84	0.0088	0.0079 *
Mercury	71857-05-05 05:17 G	27966414.57	27966414.72	27966414.87	0.0088	0.0037
Mercury	71857-08-01 07:27 G	27966502.68	27966502.81	27966502.96	0.0088	0.0046
Mercury	71857-10-28 09:51 G	27966590.79	27966590.91	27966591.04	0.0088	0.0055
Mercury	71858-01-24 12:00 G	27966678.90	27966679.00	27966679.13	0.0088	0.0064
Mercury	71858-04-22 14:24 G	27966767.02	27966767.10	27966767.20	0.0088	0.0073
Mercury	71858-07-19 16:34 G	27966855.15	27966855.19	27966855.27	0.0088	0.0082
Mars	71884-04-17 19:27 G	27976259.05	27976259.31	27976259.61	0.0089	0.0022
Jupiter	71904-03-21 23:03 G	27983535.98	27983536.46	27983537.01	0.0089	0.0030
Venus	71913-06-18 01:55 G	27986911.56	27986911.58	27986911.64	0.0090	0.0088
Venus	71914-01-29 14:53 G	27987137.05	27987137.12	27987137.23	0.0090	0.0082
Venus	71914-09-12 04:05 G	27987362.57	27987362.67	27987362.80	0.0090	0.0076
Venus	71915-04-25 17:03 G	27987588.10	27987588.21	27987588.37	0.0090	0.0070
Venus	71915-12-07 06:43 G	27987813.63	27987813.78	27987813.94	0.0090	0.0063
Venus	71916-07-19 19:41 G	27988039.16	27988039.32	27988039.50	0.0090	0.0057
Venus	71917-03-02 08:39 G	27988264.70	27988264.86	27988265.06	0.0090	0.0051
Venus	71917-10-13 22:05 G	27988490.24	27988490.42	27988490.62	0.0090	0.0044
Venus	71918-05-27 11:17 G	27988715.78	27988715.97	27988716.18	0.0090	0.0038

Venus	71919-01-08 00:29 G	27988941.32	27988941.52	27988941.73	0.0090	0.0031
Venus	71919-08-21 13:41 G	27989166.87	27989167.07	27989167.29	0.0090	0.0025
Venus	71920-04-03 02:53 G	27989392.41	27989392.62	27989392.84	0.0090	0.0018
Venus	71920-11-14 16:05 G	27989617.96	27989618.17	27989618.39	0.0090	0.0012
Venus	71921-06-28 05:17 G	27989843.50	27989843.72	27989843.94	0.0090	0.0005
Venus	71922-02-08 18:29 G	27990069.05	27990069.27	27990069.49	0.0090	0.0002
Venus	71922-09-22 07:27 G	27990294.60	27990294.81	27990295.03	0.0090	0.0009
Venus	71923-05-05 20:39 G	27990520.15	27990520.36	27990520.59	0.0090	0.0015
Venus	71923-12-17 10:05 G	27990745.71	27990745.92	27990746.13	0.0090	0.0021
Venus	71924-07-29 23:03 G	27990971.26	27990971.46	27990971.67	0.0090	0.0028
Venus	71925-03-12 12:15 G	27991196.81	27991197.01	27991197.22	0.0090	0.0034
Venus	71925-10-24 01:12 G	27991422.37	27991422.55	27991422.76	0.0090	0.0041
Venus	71926-06-06 14:39 G	27991647.93	27991648.11	27991648.30	0.0090	0.0047
Venus	71927-01-18 03:36 G	27991873.49	27991873.65	27991873.84	0.0090	0.0054
Venus	71927-08-31 17:03 G	27992099.06	27992099.21	27992099.38	0.0090	0.0060
Venus	71928-04-13 06:00 G	27992324.63	27992324.75	27992324.92	0.0090	0.0067
Venus	71928-11-24 19:27 G	27992550.20	27992550.31	27992550.45	0.0090	0.0073
Venus	71929-07-08 08:53 G	27992775.78	27992775.87	27992775.99	0.0090	0.0079
Venus	71930-02-18 22:19 G	27993001.37	27993001.43	27993001.50	0.0090	0.0085
Moon	71932-08-21 05:03 G	27993915.66	27993915.71	27993915.79	0.0090	0.0086
Earth	71932-08-21 06:58 G	27993915.76	27993915.79	27993915.87	0.0090	0.0088 *
Earth	71933-08-23 18:29 G	27994283.10	27994283.27	27994283.48	0.0090	0.0060
Moon	71933-08-23 20:10 G	27994283.17	27994283.34	27994283.55	0.0090	0.0062 *
Moon	71934-08-26 05:46 G	27994650.51	27994650.74	27994650.97	0.0090	0.0029
Earth	71934-08-26 06:00 G	27994650.52	27994650.75	27994651.00	0.0090	0.0032 *
Moon	71935-08-28 16:05 G	27995017.92	27995018.17	27995018.44	0.0090	0.0006
Earth	71935-08-28 17:31 G	27995017.98	27995018.23	27995018.49	0.0090	0.0004 *
Mercury	71935-10-07 20:24 G	27995058.29	27995058.35	27995058.42	0.0090	0.0082
Mercury	71936-01-03 22:34 G	27995146.35	27995146.44	27995146.53	0.0090	0.0073
Mercury	71936-04-01 00:43 G	27995234.42	27995234.53	27995234.64	0.0090	0.0064

Mercury	71936-06-28 02:24 G	27995322.50	27995322.60	27995322.74	0.0090	0.0056
Earth	71936-08-30 04:34 G	27995385.46	27995385.69	27995385.95	0.0090	0.0025
Moon	71936-08-30 06:43 G	27995385.54	27995385.78	27995386.02	0.0090	0.0027 *
Mercury	71936-09-24 04:34 G	27995410.57	27995410.69	27995410.83	0.0090	0.0047
Mercury	71936-12-21 06:43 G	27995498.65	27995498.78	27995498.93	0.0090	0.0038
Mercury	71937-03-19 08:53 G	27995586.73	27995586.87	27995587.02	0.0090	0.0029
Mercury	71937-06-15 10:48 G	27995674.81	27995674.95	27995675.11	0.0090	0.0021
Moon	71937-09-01 12:58 G	27995752.83	27995753.04	27995753.26	0.0090	0.0050
Earth	71937-09-01 15:51 G	27995752.97	27995753.16	27995753.38	0.0090	0.0053 *
Mercury	71937-09-11 12:58 G	27995762.89	27995763.04	27995763.20	0.0090	0.0012
Mercury	71937-12-08 15:07 G	27995850.98	27995851.13	27995851.28	0.0090	0.0003
Mercury	71938-03-06 17:03 G	27995939.06	27995939.21	27995939.36	0.0090	0.0006
Mercury	71938-06-02 18:58 G	27996027.14	27996027.29	27996027.45	0.0090	0.0015
Mercury	71938-08-29 21:07 G	27996115.23	27996115.38	27996115.53	0.0090	0.0023
Earth	71938-09-04 02:53 G	27996120.53	27996120.62	27996120.75	0.0090	0.0081
Moon	71938-09-04 06:29 G	27996120.70	27996120.77	27996120.88	0.0090	0.0083 *
Mercury	71938-11-25 22:48 G	27996203.32	27996203.45	27996203.60	0.0090	0.0032
Mercury	71939-02-22 00:58 G	27996291.41	27996291.54	27996291.68	0.0090	0.0040
Mercury	71939-05-21 02:39 G	27996379.50	27996379.61	27996379.75	0.0090	0.0049
Mercury	71939-08-17 04:48 G	27996467.59	27996467.70	27996467.82	0.0090	0.0057
Mercury	71939-11-13 06:58 G	27996555.68	27996555.79	27996555.89	0.0090	0.0065
Mercury	71940-02-09 08:24 G	27996643.78	27996643.85	27996643.95	0.0090	0.0074
Mercury	71940-05-07 10:34 G	27996731.89	27996731.94	27996732.00	0.0089	0.0082
Mars	71966-03-05 04:05 G	28006164.43	28006164.67	28006164.98	0.0089	0.0053
Venus	71995-08-05 09:07 G	28016909.83	28016909.88	28016909.97	0.0088	0.0083
Venus	71996-03-17 22:19 G	28017135.33	28017135.43	28017135.54	0.0088	0.0077
Venus	71996-10-29 11:17 G	28017360.85	28017360.97	28017361.11	0.0088	0.0071
Venus	71997-06-12 00:15 G	28017586.37	28017586.51	28017586.67	0.0088	0.0065
Venus	71998-01-23 13:12 G	28017811.89	28017812.05	28017812.22	0.0088	0.0059
Venus	71998-09-06 01:55 G	28018037.41	28018037.58	28018037.77	0.0088	0.0053

Venus	71999-04-19 14:53 G	28018262.94	28018263.12	28018263.31	0.0088	0.0047
Venus	71999-12-01 03:51 G	28018488.47	28018488.66	28018488.86	0.0088	0.0041
Venus	72000-07-13 16:34 G	28018714.00	28018714.19	28018714.41	0.0088	0.0035

# 73RD MILLENNIUM CE

**This is a list of transits visible from Neptune in the 73rd millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	72001-02-24 05:17 G		28018939.53	28018939.72	28018939.95	0.0088	0.0029	
Venus	72001-10-07 18:15 G		28019165.06	28019165.26	28019165.49	0.0088	0.0023	
Venus	72002-05-21 07:27 G		28019390.59	28019390.81	28019391.03	0.0088	0.0016	
Venus	72003-01-01 20:10 G		28019616.12	28019616.34	28019616.57	0.0088	0.0010	
Venus	72003-08-15 09:07 G		28019841.66	28019841.88	28019842.10	0.0088	0.0004	
Venus	72004-03-27 22:05 G		28020067.19	28020067.42	28020067.64	0.0088	0.0003	
Venus	72004-11-08 11:03 G		28020292.74	28020292.96	28020293.18	0.0088	0.0009	
Venus	72005-06-21 23:46 G		28020518.28	28020518.49	28020518.71	0.0088	0.0015	
Venus	72006-02-02 12:29 G		28020743.81	28020744.02	28020744.24	0.0088	0.0022	
Venus	72006-09-16 01:12 G		28020969.35	28020969.55	28020969.77	0.0088	0.0028	
Venus	72007-04-29 14:10 G		28021194.90	28021195.09	28021195.30	0.0088	0.0034	
Venus	72007-12-11 03:07 G		28021420.44	28021420.63	28021420.84	0.0088	0.0040	
Venus	72008-07-23 16:05 G		28021645.99	28021646.17	28021646.36	0.0088	0.0046	
Venus	72009-03-06 04:48 G		28021871.53	28021871.70	28021871.89	0.0088	0.0052	
Venus	72009-10-17 17:31 G		28022097.08	28022097.23	28022097.41	0.0088	0.0058	



Venus	72010-05-31 06:29 G	28022322.63	28022322.77	28022322.93	0.0088	0.0064
Venus	72011-01-11 19:12 G	28022548.18	28022548.30	28022548.44	0.0088	0.0070
Venus	72011-08-25 07:55 G	28022773.73	28022773.83	28022773.95	0.0088	0.0076
Venus	72012-04-06 20:39 G	28022999.29	28022999.36	28022999.45	0.0088	0.0082
Earth	72016-02-23 20:39 G	28024417.20	28024417.36	28024417.56	0.0088	0.0064
Moon	72016-02-23 20:24 G	28024417.20	28024417.35	28024417.56	0.0088	0.0063 *
Moon	72017-02-25 08:10 G	28024784.60	28024784.84	28024785.09	0.0088	0.0038
Earth	72017-02-25 08:53 G	28024784.64	28024784.87	28024785.12	0.0088	0.0037 *
Earth	72018-02-27 21:07 G	28025152.12	28025152.38	28025152.64	0.0088	0.0010
Moon	72018-02-27 23:03 G	28025152.21	28025152.46	28025152.71	0.0088	0.0009 *
Mercury	72018-06-19 18:15 G	28025264.25	28025264.26	28025264.29	0.0088	0.0087
Mercury	72018-09-15 20:10 G	28025352.29	28025352.34	28025352.43	0.0088	0.0079
Mercury	72018-12-12 22:48 G	28025440.35	28025440.45	28025440.54	0.0088	0.0070
Moon	72019-03-02 05:31 G	28025519.48	28025519.73	28025520.01	0.0088	0.0016
Earth	72019-03-02 09:07 G	28025519.63	28025519.88	28025520.14	0.0088	0.0017 *
Mercury	72019-03-11 00:43 G	28025528.43	28025528.53	28025528.65	0.0088	0.0062
Mercury	72019-06-07 02:53 G	28025616.50	28025616.62	28025616.76	0.0088	0.0054
Mercury	72019-09-03 05:17 G	28025704.58	28025704.72	28025704.86	0.0088	0.0045
Mercury	72019-11-30 07:27 G	28025792.67	28025792.81	28025792.96	0.0088	0.0037
Mercury	72020-02-26 09:51 G	28025880.75	28025880.91	28025881.06	0.0088	0.0028
Earth	72020-03-03 20:53 G	28025887.15	28025887.37	28025887.60	0.0088	0.0044
Moon	72020-03-04 00:00 G	28025887.30	28025887.50	28025887.74	0.0088	0.0045 *
Mercury	72020-05-24 11:46 G	28025968.84	28025968.99	28025969.16	0.0088	0.0020
Mercury	72020-08-20 14:10 G	28026056.93	28026057.09	28026057.26	0.0088	0.0011
Mercury	72020-11-16 16:34 G	28026145.02	28026145.19	28026145.35	0.0088	0.0002
Mercury	72021-02-12 18:43 G	28026233.12	28026233.28	28026233.45	0.0088	0.0007
Moon	72021-03-06 04:34 G	28026254.57	28026254.69	28026254.87	0.0088	0.0071
Earth	72021-03-06 08:53 G	28026254.73	28026254.87	28026255.03	0.0088	0.0071 *
Mercury	72021-05-11 21:07 G	28026321.22	28026321.38	28026321.54	0.0088	0.0015
Mercury	72021-08-07 23:17 G	28026409.31	28026409.47	28026409.63	0.0088	0.0024

Mercury	72021-11-04 01:27 G	28026497.42	28026497.56	28026497.72	0.0088	0.0033
Mercury	72022-01-31 03:36 G	28026585.52	28026585.65	28026585.81	0.0088	0.0042
Mercury	72022-04-29 06:15 G	28026673.63	28026673.76	28026673.90	0.0088	0.0050
Mercury	72022-07-26 08:24 G	28026761.74	28026761.85	28026761.98	0.0088	0.0059
Mercury	72022-10-22 10:48 G	28026849.85	28026849.95	28026850.06	0.0088	0.0068
Mercury	72023-01-18 12:58 G	28026937.98	28026938.04	28026938.13	0.0088	0.0077
Mercury	72023-04-16 15:22 G	28027026.12	28027026.14	28027026.19	0.0088	0.0086
Mars	72047-12-03 04:05 G	28036022.58	28036022.67	28036022.81	0.0089	0.0082
Mars	72049-10-26 22:34 G	28036716.23	28036716.44	28036716.66	0.0089	0.0059
Jupiter	72070-05-21 00:29 G	28044227.23	28044227.52	28044227.88	0.0089	0.0072
Venus	72077-09-19 11:17 G	28046905.95	28046905.97	28046905.99	0.0090	0.0089
Venus	72078-05-03 00:15 G	28047131.44	28047131.51	28047131.60	0.0090	0.0083
Venus	72078-12-14 13:12 G	28047356.96	28047357.05	28047357.18	0.0090	0.0077
Venus	72079-07-28 02:10 G	28047582.48	28047582.59	28047582.75	0.0090	0.0071
Venus	72080-03-09 15:36 G	28047808.01	28047808.15	28047808.31	0.0090	0.0064
Venus	72080-10-21 04:34 G	28048033.54	28048033.69	28048033.87	0.0090	0.0058
Venus	72081-06-03 17:46 G	28048259.08	28048259.24	28048259.43	0.0090	0.0052
Venus	72082-01-15 06:58 G	28048484.61	28048484.79	28048484.99	0.0090	0.0045
Venus	72082-08-28 20:10 G	28048710.15	28048710.34	28048710.55	0.0090	0.0039
Venus	72083-04-11 09:36 G	28048935.70	28048935.90	28048936.11	0.0090	0.0032
Venus	72083-11-22 22:34 G	28049161.24	28049161.44	28049161.66	0.0090	0.0026
Venus	72084-07-05 12:00 G	28049386.79	28049387.00	28049387.22	0.0090	0.0019
Venus	72085-02-16 01:12 G	28049612.33	28049612.55	28049612.77	0.0090	0.0012
Venus	72085-09-29 14:24 G	28049837.88	28049838.10	28049838.32	0.0090	0.0006
Venus	72086-05-13 03:36 G	28050063.44	28050063.65	28050063.87	0.0090	0.0002
Venus	72086-12-24 16:48 G	28050288.99	28050289.20	28050289.42	0.0090	0.0008
Venus	72087-08-07 06:00 G	28050514.53	28050514.75	28050514.97	0.0090	0.0014
Venus	72088-03-19 18:58 G	28050740.08	28050740.29	28050740.51	0.0090	0.0021
Venus	72088-10-31 07:55 G	28050965.64	28050965.83	28050966.05	0.0090	0.0028
Venus	72089-06-13 21:22 G	28051191.20	28051191.39	28051191.60	0.0090	0.0034

Venus	72090-01-25 10:19 G	28051416.75	28051416.93	28051417.14	0.0090	0.0041
Venus	72090-09-07 23:31 G	28051642.31	28051642.48	28051642.68	0.0090	0.0047
Venus	72091-04-21 12:43 G	28051867.87	28051868.03	28051868.22	0.0090	0.0054
Venus	72091-12-03 01:55 G	28052093.43	28052093.58	28052093.76	0.0090	0.0060
Venus	72092-07-15 15:36 G	28052319.00	28052319.15	28052319.29	0.0090	0.0066
Venus	72093-02-26 04:19 G	28052544.57	28052544.68	28052544.82	0.0090	0.0073
Venus	72093-10-09 17:46 G	28052770.15	28052770.24	28052770.35	0.0090	0.0079
Venus	72094-05-23 07:27 G	28052995.74	28052995.81	28052995.87	0.0090	0.0085
Earth	72097-08-23 01:41 G	28054183.44	28054183.57	28054183.73	0.0090	0.0073
Moon	72097-08-23 02:10 G	28054183.47	28054183.59	28054183.72	0.0090	0.0077 *
Moon	72098-08-25 11:31 G	28054550.77	28054550.98	28054551.24	0.0090	0.0041
Earth	72098-08-25 13:12 G	28054550.84	28054551.05	28054551.28	0.0090	0.0045 *
Earth	72099-08-28 00:29 G	28054918.28	28054918.52	28054918.78	0.0090	0.0017
Moon	72099-08-28 03:07 G	28054918.40	28054918.63	28054918.88	0.0090	0.0022 *
Mercury	72100-04-07 16:48 G	28055141.18	28055141.20	28055141.25	0.0090	0.0088
Mercury	72100-07-04 18:58 G	28055229.23	28055229.29	28055229.38	0.0090	0.0079
Moon	72100-08-30 08:39 G	28055285.61	28055285.86	28055286.12	0.0090	0.0016
Earth	72100-08-30 12:00 G	28055285.75	28055286.00	28055286.25	0.0090	0.0011 *
Mercury	72100-09-30 21:07 G	28055317.29	28055317.38	28055317.49	0.0090	0.0070
Mercury	72100-12-27 23:17 G	28055405.36	28055405.47	28055405.59	0.0090	0.0061
Mercury	72101-03-26 01:27 G	28055493.44	28055493.56	28055493.69	0.0090	0.0052
Mercury	72101-06-22 03:36 G	28055581.52	28055581.65	28055581.79	0.0090	0.0043
Earth	72101-09-01 23:03 G	28055653.24	28055653.46	28055653.69	0.0090	0.0039
Moon	72101-09-02 02:24 G	28055653.38	28055653.60	28055653.85	0.0090	0.0035 *
Mercury	72101-09-18 05:31 G	28055669.59	28055669.73	28055669.88	0.0090	0.0034
Mercury	72101-12-15 07:41 G	28055757.67	28055757.82	28055757.97	0.0090	0.0026
Mercury	72102-03-13 09:51 G	28055845.76	28055845.91	28055846.06	0.0090	0.0017
Mercury	72102-06-09 11:46 G	28055933.84	28055933.99	28055934.14	0.0090	0.0008
Moon	72102-09-04 06:29 G	28056020.65	28056020.77	28056020.95	0.0090	0.0072
Earth	72102-09-04 10:05 G	28056020.77	28056020.92	28056021.10	0.0090	0.0067 *

Mercury	72102-09-05 13:55 G	28056021.92	28056022.08	28056022.23	0.0090	0.0002
Mercury	72102-12-02 15:51 G	28056110.01	28056110.16	28056110.31	0.0090	0.0009
Mercury	72103-02-28 17:46 G	28056198.09	28056198.24	28056198.39	0.0090	0.0018
Mercury	72103-05-27 19:41 G	28056286.18	28056286.32	28056286.47	0.0090	0.0026
Mercury	72103-08-23 21:36 G	28056374.27	28056374.40	28056374.55	0.0090	0.0035
Mercury	72103-11-19 23:31 G	28056462.36	28056462.48	28056462.62	0.0090	0.0043
Mercury	72104-02-16 01:27 G	28056550.45	28056550.56	28056550.70	0.0090	0.0052
Mercury	72104-05-14 03:36 G	28056638.54	28056638.65	28056638.76	0.0090	0.0060
Mercury	72104-08-10 05:17 G	28056726.64	28056726.72	28056726.83	0.0090	0.0069
Mercury	72104-11-06 07:12 G	28056814.74	28056814.80	28056814.89	0.0090	0.0077
Mercury	72105-02-02 09:22 G	28056902.85	28056902.89	28056902.94	0.0090	0.0085
Mars	72129-10-17 12:15 G	28065925.69	28065926.01	28065926.35	0.0089	0.0021
Venus	72159-11-07 18:43 G	28076904.23	28076904.28	28076904.36	0.0088	0.0084
Venus	72160-06-20 07:41 G	28077129.74	28077129.82	28077129.94	0.0088	0.0078
Venus	72161-01-31 20:39 G	28077355.25	28077355.36	28077355.50	0.0088	0.0072
Venus	72161-09-14 09:36 G	28077580.77	28077580.90	28077581.06	0.0088	0.0066
Venus	72162-04-27 22:34 G	28077806.29	28077806.44	28077806.62	0.0088	0.0060
Venus	72162-12-09 11:31 G	28078031.82	28078031.98	28078032.17	0.0088	0.0054
Venus	72163-07-23 00:29 G	28078257.35	28078257.52	28078257.72	0.0088	0.0048
Venus	72164-03-04 13:12 G	28078482.87	28078483.05	28078483.27	0.0088	0.0042
Venus	72164-10-16 02:24 G	28078708.41	28078708.60	28078708.81	0.0088	0.0035
Venus	72165-05-29 15:22 G	28078933.94	28078934.14	28078934.36	0.0088	0.0029
Venus	72166-01-10 04:05 G	28079159.46	28079159.67	28079159.89	0.0088	0.0023
Venus	72166-08-23 16:48 G	28079384.99	28079385.20	28079385.43	0.0088	0.0017
Venus	72167-04-06 06:00 G	28079610.53	28079610.75	28079610.97	0.0088	0.0010
Venus	72167-11-17 18:58 G	28079836.07	28079836.29	28079836.51	0.0088	0.0004
Venus	72168-06-30 07:41 G	28080061.60	28080061.82	28080062.05	0.0088	0.0003
Venus	72169-02-10 20:24 G	28080287.14	28080287.35	28080287.58	0.0088	0.0009
Venus	72169-09-24 09:22 G	28080512.67	28080512.89	28080513.11	0.0088	0.0015
Venus	72170-05-07 22:19 G	28080738.21	28080738.43	28080738.64	0.0088	0.0021

Venus	72170-12-19 11:03 G	28080963.76	28080963.96	28080964.18	0.0088	0.0027
Venus	72171-08-01 23:46 G	28081189.30	28081189.49	28081189.71	0.0088	0.0034
Venus	72172-03-14 12:43 G	28081414.84	28081415.03	28081415.24	0.0088	0.0040
Venus	72172-10-26 01:41 G	28081640.39	28081640.57	28081640.76	0.0088	0.0046
Venus	72173-06-08 14:39 G	28081865.93	28081866.11	28081866.29	0.0088	0.0052
Venus	72174-01-20 02:53 G	28082091.48	28082091.62	28082091.81	0.0088	0.0059
Venus	72174-09-02 15:36 G	28082317.03	28082317.15	28082317.33	0.0088	0.0065
Venus	72175-04-16 04:34 G	28082542.58	28082542.69	28082542.84	0.0088	0.0071
Venus	72175-11-27 17:31 G	28082768.14	28082768.23	28082768.36	0.0088	0.0077
Venus	72176-07-10 06:15 G	28082993.71	28082993.76	28082993.86	0.0088	0.0083
Moon	72180-02-24 01:27 G	28084317.48	28084317.56	28084317.70	0.0088	0.0080
Earth	72180-02-24 03:36 G	28084317.54	28084317.65	28084317.80	0.0088	0.0076 *
Earth	72181-02-25 15:22 G	28084684.95	28084685.14	28084685.38	0.0088	0.0050
Moon	72181-02-25 18:00 G	28084685.05	28084685.25	28084685.49	0.0088	0.0046 *
Moon	72182-02-28 00:29 G	28085052.27	28085052.52	28085052.78	0.0088	0.0027
Earth	72182-02-28 03:51 G	28085052.41	28085052.66	28085052.92	0.0088	0.0022 *
Earth	72183-03-02 15:51 G	28085419.90	28085420.16	28085420.42	0.0088	0.0005
Moon	72183-03-02 19:27 G	28085420.06	28085420.31	28085420.58	0.0088	0.0009 *
Mercury	72183-03-17 16:48 G	28085435.17	28085435.20	28085435.27	0.0088	0.0083
Mercury	72183-06-13 18:58 G	28085523.22	28085523.29	28085523.39	0.0088	0.0075
Mercury	72183-09-09 21:22 G	28085611.29	28085611.39	28085611.50	0.0088	0.0066
Mercury	72183-12-06 23:31 G	28085699.37	28085699.48	28085699.61	0.0088	0.0058
Moon	72184-03-04 00:15 G	28085787.28	28085787.51	28085787.77	0.0088	0.0028
Earth	72184-03-04 03:36 G	28085787.42	28085787.65	28085787.90	0.0088	0.0032 *
Mercury	72184-03-04 01:27 G	28085787.45	28085787.56	28085787.71	0.0088	0.0050 *
Mercury	72184-05-31 03:51 G	28085875.53	28085875.66	28085875.81	0.0088	0.0041
Mercury	72184-08-27 06:00 G	28085963.61	28085963.75	28085963.91	0.0088	0.0033
Mercury	72184-11-23 08:24 G	28086051.70	28086051.85	28086052.01	0.0088	0.0024
Mercury	72185-02-19 10:34 G	28086139.79	28086139.94	28086140.11	0.0088	0.0016
Earth	72185-03-06 15:22 G	28086154.97	28086155.14	28086155.35	0.0088	0.0059

Moon	72185-03-06 18:29 G	28086155.11	28086155.27	28086155.48	0.0088	0.0064 *
Mercury	72185-05-18 12:58 G	28086227.88	28086228.04	28086228.20	0.0088	0.0007
Mercury	72185-08-14 15:07 G	28086315.97	28086316.13	28086316.30	0.0088	0.0003
Mercury	72185-11-10 17:31 G	28086404.07	28086404.23	28086404.39	0.0088	0.0011
Mercury	72186-02-06 19:41 G	28086492.16	28086492.32	28086492.48	0.0088	0.0019
Moon	72186-03-09 01:27 G	28086522.50	28086522.56	28086522.68	0.0088	0.0082
Earth	72186-03-09 03:22 G	28086522.61	28086522.64	28086522.72	0.0088	0.0086 *
Mercury	72186-05-05 22:05 G	28086580.26	28086580.42	28086580.57	0.0088	0.0028
Mercury	72186-08-02 00:15 G	28086668.37	28086668.51	28086668.66	0.0088	0.0037
Mercury	72186-10-29 02:24 G	28086756.47	28086756.60	28086756.75	0.0088	0.0046
Mercury	72187-01-25 04:34 G	28086844.58	28086844.69	28086844.84	0.0088	0.0055
Mercury	72187-04-23 06:58 G	28086932.69	28086932.79	28086932.92	0.0088	0.0064
Mercury	72187-07-20 09:36 G	28087020.81	28087020.90	28087020.99	0.0088	0.0072
Mercury	72187-10-16 11:46 G	28087108.94	28087108.99	28087109.06	0.0088	0.0081
Mars	72213-06-13 08:39 G	28096479.57	28096479.86	28096480.15	0.0089	0.0001
Venus	72242-08-06 10:05 G	28107125.86	28107125.92	28107126.00	0.0090	0.0084
Venus	72243-03-19 23:03 G	28107351.37	28107351.46	28107351.58	0.0090	0.0078
Venus	72243-10-31 12:00 G	28107576.89	28107577.00	28107577.15	0.0090	0.0072
Venus	72244-06-13 01:12 G	28107802.41	28107802.55	28107802.71	0.0090	0.0065
Venus	72245-01-24 14:10 G	28108027.94	28108028.09	28108028.27	0.0090	0.0059
Venus	72245-09-07 03:36 G	28108253.47	28108253.65	28108253.83	0.0090	0.0052
Venus	72246-04-20 16:34 G	28108479.01	28108479.19	28108479.39	0.0090	0.0046
Venus	72246-12-02 06:00 G	28108704.55	28108704.75	28108704.94	0.0090	0.0039
Venus	72247-07-15 18:43 G	28108930.09	28108930.28	28108930.50	0.0090	0.0033
Venus	72248-02-26 08:10 G	28109155.63	28109155.84	28109156.05	0.0090	0.0026
Venus	72248-10-08 21:07 G	28109381.18	28109381.38	28109381.60	0.0090	0.0020
Venus	72249-05-22 10:34 G	28109606.73	28109606.94	28109607.16	0.0090	0.0013
Venus	72250-01-02 23:46 G	28109832.27	28109832.49	28109832.71	0.0090	0.0006
Venus	72250-08-16 12:58 G	28110057.82	28110058.04	28110058.26	0.0090	0.0000
Venus	72251-03-30 02:10 G	28110283.37	28110283.59	28110283.81	0.0090	0.0007

Venus	72251-11-10 15:07 G	28110508.92	28110509.13	28110509.36	0.0090	0.0014
Venus	72252-06-23 04:19 G	28110734.48	28110734.68	28110734.90	0.0090	0.0021
Venus	72253-02-03 17:31 G	28110960.03	28110960.23	28110960.45	0.0090	0.0027
Venus	72253-09-17 06:29 G	28111185.58	28111185.77	28111185.99	0.0090	0.0034
Venus	72254-04-30 20:10 G	28111411.14	28111411.34	28111411.53	0.0090	0.0040
Venus	72254-12-12 08:53 G	28111636.70	28111636.87	28111637.08	0.0090	0.0047
Venus	72255-07-25 22:34 G	28111862.26	28111862.44	28111862.61	0.0090	0.0053
Venus	72256-03-07 11:17 G	28112087.82	28112087.97	28112088.15	0.0090	0.0060
Venus	72256-10-19 00:43 G	28112313.39	28112313.53	28112313.68	0.0090	0.0066
Venus	72257-06-01 13:41 G	28112538.96	28112539.07	28112539.22	0.0090	0.0073
Venus	72258-01-13 03:07 G	28112764.54	28112764.63	28112764.74	0.0090	0.0079
Venus	72258-08-26 16:34 G	28112990.12	28112990.19	28112990.26	0.0090	0.0085
Moon	72261-08-24 06:58 G	28114083.74	28114083.79	28114083.89	0.0090	0.0086
Earth	72261-08-24 09:07 G	28114083.83	28114083.88	28114083.98	0.0090	0.0086 *
Earth	72262-08-26 20:53 G	28114451.19	28114451.37	28114451.58	0.0090	0.0058
Moon	72262-08-26 23:17 G	28114451.31	28114451.47	28114451.68	0.0090	0.0060 *
Moon	72263-08-29 04:34 G	28114818.47	28114818.69	28114818.95	0.0090	0.0030
Earth	72263-08-29 08:24 G	28114818.62	28114818.85	28114819.10	0.0090	0.0030 *
Earth	72264-08-30 19:55 G	28115186.08	28115186.33	28115186.59	0.0090	0.0002
Moon	72264-08-30 23:17 G	28115186.22	28115186.47	28115186.73	0.0090	0.0003 *
Mercury	72265-01-03 16:05 G	28115312.11	28115312.17	28115312.22	0.0090	0.0083
Mercury	72265-04-01 18:15 G	28115400.17	28115400.26	28115400.34	0.0090	0.0074
Mercury	72265-06-28 19:55 G	28115488.24	28115488.33	28115488.45	0.0090	0.0066
Moon	72265-09-02 03:51 G	28115553.43	28115553.66	28115553.90	0.0090	0.0028
Earth	72265-09-02 07:12 G	28115553.56	28115553.80	28115554.05	0.0090	0.0026 *
Mercury	72265-09-24 22:05 G	28115576.31	28115576.42	28115576.55	0.0090	0.0057
Mercury	72265-12-22 00:15 G	28115664.39	28115664.51	28115664.65	0.0090	0.0048
Mercury	72266-03-20 02:24 G	28115752.47	28115752.60	28115752.75	0.0090	0.0039
Mercury	72266-06-16 04:34 G	28115840.55	28115840.69	28115840.84	0.0090	0.0030
Earth	72266-09-04 18:15 G	28115921.07	28115921.26	28115921.48	0.0090	0.0054

Moon	72266-09-04 20:39 G	28115921.17	28115921.36	28115921.59	0.0090	0.0053 *
Mercury	72266-09-12 06:29 G	28115928.63	28115928.77	28115928.93	0.0090	0.0022
Mercury	72266-12-09 08:39 G	28116016.71	28116016.86	28116017.02	0.0090	0.0013
Mercury	72267-03-07 10:48 G	28116104.80	28116104.95	28116105.10	0.0090	0.0004
Mercury	72267-06-03 12:43 G	28116192.88	28116193.03	28116193.19	0.0090	0.0005
Mercury	72267-08-30 14:39 G	28116280.97	28116281.11	28116281.27	0.0090	0.0014
Moon	72267-09-07 04:19 G	28116288.60	28116288.68	28116288.79	0.0090	0.0083
Earth	72267-09-07 05:17 G	28116288.64	28116288.72	28116288.85	0.0090	0.0082 *
Mercury	72267-11-26 16:48 G	28116369.05	28116369.20	28116369.35	0.0090	0.0022
Mercury	72268-02-22 18:43 G	28116457.14	28116457.28	28116457.43	0.0090	0.0030
Mercury	72268-05-20 20:53 G	28116545.23	28116545.37	28116545.50	0.0090	0.0039
Mercury	72268-08-16 22:34 G	28116633.32	28116633.44	28116633.58	0.0090	0.0048
Mercury	72268-11-13 00:29 G	28116721.41	28116721.52	28116721.65	0.0090	0.0056
Mercury	72269-02-09 02:24 G	28116809.51	28116809.60	28116809.72	0.0090	0.0064
Mercury	72269-05-08 04:19 G	28116897.61	28116897.68	28116897.78	0.0090	0.0073
Mercury	72269-08-04 06:29 G	28116985.71	28116985.77	28116985.84	0.0090	0.0081
Mercury	72269-10-31 08:24 G	28117073.84	28117073.85	28117073.87	0.0090	0.0089
Mars	72295-04-28 00:29 G	28126383.34	28126383.52	28126383.72	0.0089	0.0073
Jupiter	72312-11-05 13:41 G	28132783.84	28132784.07	28132784.38	0.0088	0.0076
Venus	72324-02-11 04:05 G	28136898.63	28136898.67	28136898.74	0.0088	0.0085
Venus	72324-09-23 17:03 G	28137124.13	28137124.21	28137124.32	0.0088	0.0079
Venus	72325-05-07 06:00 G	28137349.65	28137349.75	28137349.89	0.0088	0.0073
Venus	72325-12-18 18:58 G	28137575.17	28137575.29	28137575.45	0.0088	0.0067
Venus	72326-08-01 07:55 G	28137800.69	28137800.83	28137801.01	0.0088	0.0061
Venus	72327-03-14 20:53 G	28138026.22	28138026.37	28138026.57	0.0088	0.0055
Venus	72327-10-26 10:19 G	28138251.75	28138251.93	28138252.12	0.0088	0.0048
Venus	72328-06-07 23:17 G	28138477.28	28138477.47	28138477.67	0.0088	0.0042
Venus	72329-01-19 12:00 G	28138702.81	28138703.00	28138703.22	0.0088	0.0036
Venus	72329-09-02 00:58 G	28138928.34	28138928.54	28138928.76	0.0088	0.0030
Venus	72330-04-15 14:10 G	28139153.87	28139154.09	28139154.30	0.0088	0.0023



Venus	72330-11-27 03:07 G	28139379.41	28139379.63	28139379.85	0.0088	0.0017
Venus	72331-07-10 15:51 G	28139604.95	28139605.16	28139605.39	0.0088	0.0011
Venus	72332-02-21 04:48 G	28139830.48	28139830.70	28139830.92	0.0088	0.0004
Venus	72332-10-03 17:46 G	28140056.02	28140056.24	28140056.46	0.0088	0.0002
Venus	72333-05-17 06:29 G	28140281.55	28140281.77	28140281.99	0.0088	0.0008
Venus	72333-12-28 19:27 G	28140507.09	28140507.31	28140507.53	0.0088	0.0015
Venus	72334-08-11 08:10 G	28140732.63	28140732.84	28140733.06	0.0088	0.0021
Venus	72335-03-24 20:53 G	28140958.17	28140958.37	28140958.59	0.0088	0.0028
Venus	72335-11-05 09:51 G	28141183.72	28141183.91	28141184.13	0.0088	0.0034
Venus	72336-06-17 22:48 G	28141409.26	28141409.45	28141409.65	0.0088	0.0040
Venus	72337-01-29 11:46 G	28141634.80	28141634.99	28141635.18	0.0088	0.0046
Venus	72337-09-12 00:00 G	28141860.35	28141860.50	28141860.70	0.0088	0.0053
Venus	72338-04-25 12:58 G	28142085.90	28142086.04	28142086.23	0.0088	0.0059
Venus	72338-12-07 02:10 G	28142311.46	28142311.59	28142311.75	0.0088	0.0065
Venus	72339-07-20 14:53 G	28142537.01	28142537.12	28142537.27	0.0088	0.0071
Venus	72340-03-02 03:36 G	28142762.57	28142762.65	28142762.78	0.0088	0.0077
Venus	72340-10-13 16:34 G	28142988.14	28142988.19	28142988.28	0.0088	0.0083
Earth	72344-02-25 11:17 G	28144217.97	28144217.97	28144218.01	0.0088	0.0088
Moon	72345-02-26 19:41 G	28144585.15	28144585.32	28144585.55	0.0088	0.0058
Earth	72345-02-26 23:31 G	28144585.31	28144585.48	28144585.68	0.0088	0.0061 *
Earth	72346-03-01 11:31 G	28144952.75	28144952.98	28144953.23	0.0088	0.0034
Moon	72346-03-01 15:07 G	28144952.90	28144953.13	28144953.38	0.0088	0.0036 *
Moon	72347-03-03 20:10 G	28145320.09	28145320.34	28145320.60	0.0088	0.0005
Earth	72347-03-03 23:31 G	28145320.22	28145320.48	28145320.75	0.0088	0.0007 *
Mercury	72347-09-17 13:27 G	28145518.06	28145518.06	28145518.11	0.0088	0.0087
Mercury	72347-12-14 16:05 G	28145606.10	28145606.17	28145606.24	0.0088	0.0078
Earth	72348-03-05 11:17 G	28145687.73	28145687.97	28145688.24	0.0088	0.0020
Moon	72348-03-05 13:41 G	28145687.82	28145688.07	28145688.34	0.0088	0.0018 *
Mercury	72348-03-11 18:00 G	28145694.17	28145694.25	28145694.36	0.0088	0.0070
Mercury	72348-06-07 20:10 G	28145782.24	28145782.34	28145782.46	0.0088	0.0062

Mercury	72348-09-03 22:34 G	28145870.32	28145870.44	28145870.57	0.0088	0.0053
Mercury	72348-12-01 00:29 G	28145958.39	28145958.52	28145958.67	0.0088	0.0045
Mercury	72349-02-27 02:39 G	28146046.48	28146046.61	28146046.77	0.0088	0.0037
Moon	72349-03-07 21:22 G	28146055.20	28146055.39	28146055.62	0.0088	0.0049
Earth	72349-03-07 23:17 G	28146055.26	28146055.47	28146055.71	0.0088	0.0047 *
Mercury	72349-05-26 05:03 G	28146134.56	28146134.71	28146134.87	0.0088	0.0028
Mercury	72349-08-22 07:27 G	28146222.65	28146222.81	28146222.97	0.0088	0.0019
Mercury	72349-11-18 09:36 G	28146310.74	28146310.90	28146311.06	0.0088	0.0011
Mercury	72350-02-14 11:46 G	28146398.83	28146398.99	28146399.16	0.0088	0.0003
Moon	72350-03-10 11:17 G	28146422.83	28146422.97	28146423.15	0.0088	0.0071
Earth	72350-03-10 10:48 G	28146422.84	28146422.95	28146423.12	0.0088	0.0074 *
Mercury	72350-05-13 14:10 G	28146486.93	28146487.09	28146487.25	0.0088	0.0007
Mercury	72350-08-09 16:19 G	28146575.02	28146575.18	28146575.34	0.0088	0.0015
Mercury	72350-11-05 18:29 G	28146663.12	28146663.27	28146663.43	0.0088	0.0024
Mercury	72351-02-01 20:39 G	28146751.22	28146751.36	28146751.52	0.0088	0.0033
Mercury	72351-04-30 23:03 G	28146839.32	28146839.46	28146839.61	0.0088	0.0042
Mercury	72351-07-28 01:27 G	28146927.43	28146927.56	28146927.70	0.0088	0.0050
Mercury	72351-10-24 03:36 G	28147015.54	28147015.65	28147015.78	0.0088	0.0059
Mercury	72352-01-20 06:00 G	28147103.65	28147103.75	28147103.86	0.0088	0.0068
Mercury	72352-04-17 08:10 G	28147191.78	28147191.84	28147191.93	0.0088	0.0077
Mercury	72352-07-14 10:34 G	28147279.92	28147279.94	28147279.98	0.0088	0.0086
Mars	72377-01-27 20:24 G	28156243.16	28156243.35	28156243.59	0.0089	0.0060
Mars	72378-12-22 14:10 G	28156936.99	28156937.09	28156937.22	0.0089	0.0081
Venus	72406-11-08 20:24 G	28167120.30	28167120.35	28167120.43	0.0090	0.0085
Venus	72407-06-22 09:22 G	28167345.81	28167345.89	28167346.01	0.0090	0.0079
Venus	72408-02-02 22:19 G	28167571.32	28167571.43	28167571.58	0.0090	0.0073
Venus	72408-09-15 11:31 G	28167796.85	28167796.98	28167797.14	0.0090	0.0066
Venus	72409-04-29 00:29 G	28168022.38	28168022.52	28168022.71	0.0090	0.0060
Venus	72409-12-10 13:55 G	28168247.91	28168248.08	28168248.26	0.0090	0.0053
Venus	72410-07-24 02:39 G	28168473.44	28168473.61	28168473.82	0.0090	0.0047

Venus	72411-03-06 15:51 G	28168698.98	28168699.16	28168699.37	0.0090	0.0040
Venus	72411-10-18 04:48 G	28168924.52	28168924.70	28168924.92	0.0090	0.0034
Venus	72412-05-30 18:15 G	28169150.06	28169150.26	28169150.48	0.0090	0.0027
Venus	72413-01-11 07:27 G	28169375.60	28169375.81	28169376.03	0.0090	0.0020
Venus	72413-08-24 20:24 G	28169601.15	28169601.35	28169601.58	0.0090	0.0014
Venus	72414-04-07 09:51 G	28169826.69	28169826.91	28169827.13	0.0090	0.0007
Venus	72414-11-18 23:03 G	28170052.24	28170052.46	28170052.68	0.0090	0.0001
Venus	72415-07-02 12:15 G	28170277.79	28170278.01	28170278.23	0.0090	0.0007
Venus	72416-02-13 01:12 G	28170503.34	28170503.55	28170503.78	0.0090	0.0014
Venus	72416-09-25 14:39 G	28170728.90	28170729.11	28170729.32	0.0090	0.0020
Venus	72417-05-09 03:51 G	28170954.46	28170954.66	28170954.87	0.0090	0.0027
Venus	72417-12-20 16:48 G	28171180.01	28171180.20	28171180.42	0.0090	0.0034
Venus	72418-08-03 06:15 G	28171405.57	28171405.76	28171405.96	0.0090	0.0040
Venus	72419-03-16 18:58 G	28171631.12	28171631.29	28171631.49	0.0090	0.0047
Venus	72419-10-28 08:39 G	28171856.68	28171856.86	28171857.03	0.0090	0.0053
Venus	72420-06-09 21:36 G	28172082.25	28172082.40	28172082.57	0.0090	0.0060
Venus	72421-01-21 11:03 G	28172307.81	28172307.96	28172308.10	0.0090	0.0066
Venus	72421-09-03 23:46 G	28172533.38	28172533.49	28172533.63	0.0090	0.0073
Venus	72422-04-17 13:12 G	28172758.95	28172759.05	28172759.16	0.0090	0.0079
Venus	72422-11-29 01:55 G	28172984.54	28172984.58	28172984.67	0.0090	0.0086
Moon	72426-08-27 01:55 G	28174351.45	28174351.58	28174351.73	0.0090	0.0075
Earth	72426-08-27 04:48 G	28174351.57	28174351.70	28174351.89	0.0090	0.0071 *
Earth	72427-08-29 16:34 G	28174718.98	28174719.19	28174719.43	0.0090	0.0043
Moon	72427-08-29 20:10 G	28174719.12	28174719.34	28174719.59	0.0090	0.0038 *
Moon	72428-08-31 01:27 G	28175086.33	28175086.56	28175086.81	0.0090	0.0020
Earth	72428-08-31 04:05 G	28175086.43	28175086.67	28175086.93	0.0090	0.0015 *
Mercury	72429-07-05 12:29 G	28175395.01	28175395.02	28175395.07	0.0090	0.0088
Earth	72429-09-02 15:22 G	28175453.90	28175454.14	28175454.41	0.0090	0.0014
Moon	72429-09-02 17:46 G	28175453.99	28175454.24	28175454.51	0.0090	0.0018 *
Mercury	72429-10-01 14:39 G	28175483.05	28175483.11	28175483.20	0.0090	0.0079

Mercury	72429-12-28 17:03 G	28175571.12	28175571.21	28175571.31	0.0090	0.0070
Mercury	72430-03-26 19:12 G	28175659.19	28175659.30	28175659.42	0.0090	0.0061
Mercury	72430-06-22 21:22 G	28175747.27	28175747.39	28175747.52	0.0090	0.0052
Moon	72430-09-05 01:55 G	28175821.37	28175821.58	28175821.82	0.0090	0.0037
Earth	72430-09-05 02:39 G	28175821.40	28175821.61	28175821.86	0.0090	0.0042 *
Mercury	72430-09-18 23:31 G	28175835.34	28175835.48	28175835.62	0.0090	0.0043
Mercury	72430-12-16 01:27 G	28175923.42	28175923.56	28175923.71	0.0090	0.0034
Mercury	72431-03-14 03:36 G	28176011.51	28176011.65	28176011.80	0.0090	0.0026
Mercury	72431-06-10 05:46 G	28176099.59	28176099.74	28176099.89	0.0090	0.0017
Mercury	72431-09-06 07:41 G	28176187.67	28176187.82	28176187.98	0.0090	0.0009
Moon	72431-09-07 12:58 G	28176188.92	28176189.04	28176189.22	0.0090	0.0074
Earth	72431-09-07 13:55 G	28176188.94	28176189.08	28176189.26	0.0090	0.0069 *
Mercury	72431-12-03 09:51 G	28176275.76	28176275.91	28176276.06	0.0090	0.0001
Mercury	72432-02-29 11:46 G	28176363.84	28176363.99	28176364.15	0.0090	0.0010
Mercury	72432-05-27 13:55 G	28176451.93	28176452.08	28176452.23	0.0090	0.0018
Mercury	72432-08-23 15:51 G	28176540.02	28176540.16	28176540.31	0.0090	0.0026
Mercury	72432-11-19 18:00 G	28176628.11	28176628.25	28176628.39	0.0090	0.0035
Mercury	72433-02-15 19:41 G	28176716.20	28176716.32	28176716.46	0.0090	0.0044
Mercury	72433-05-14 21:51 G	28176804.29	28176804.41	28176804.53	0.0090	0.0052
Mercury	72433-08-10 23:31 G	28176892.38	28176892.48	28176892.60	0.0090	0.0061
Mercury	72433-11-07 01:41 G	28176980.48	28176980.57	28176980.67	0.0090	0.0069
Mercury	72434-02-03 03:36 G	28177068.58	28177068.65	28177068.73	0.0090	0.0077
Mercury	72434-05-02 05:17 G	28177156.69	28177156.72	28177156.78	0.0090	0.0086
Mars	72458-12-10 11:03 G	28186144.63	28186144.96	28186145.31	0.0089	0.0004
Jupiter	72479-01-09 00:29 G	28193479.05	28193479.52	28193480.05	0.0088	0.0034
Venus	72488-05-14 14:10 G	28196893.06	28196893.09	28196893.15	0.0088	0.0086
Venus	72488-12-26 03:07 G	28197118.56	28197118.63	28197118.74	0.0088	0.0080
Venus	72489-08-08 16:05 G	28197344.07	28197344.17	28197344.31	0.0088	0.0074
Venus	72490-03-22 05:03 G	28197569.59	28197569.71	28197569.87	0.0088	0.0068
Venus	72490-11-02 18:29 G	28197795.12	28197795.27	28197795.43	0.0088	0.0061

Venus	72491-06-16 07:27 G	28198020.64	28198020.81	28198020.99	0.0088	0.0055
Venus	72492-01-27 20:10 G	28198246.17	28198246.34	28198246.54	0.0088	0.0049
Venus	72492-09-09 09:07 G	28198471.70	28198471.88	28198472.09	0.0088	0.0043
Venus	72493-04-22 22:19 G	28198697.23	28198697.43	28198697.64	0.0088	0.0036
Venus	72493-12-04 11:17 G	28198922.77	28198922.97	28198923.19	0.0088	0.0030
Venus	72494-07-18 00:15 G	28199148.30	28199148.51	28199148.73	0.0088	0.0024
Venus	72495-02-28 13:27 G	28199373.84	28199374.06	28199374.27	0.0088	0.0017
Venus	72495-10-12 02:10 G	28199599.37	28199599.59	28199599.81	0.0088	0.0011
Venus	72496-05-24 15:07 G	28199824.91	28199825.13	28199825.35	0.0088	0.0004
Venus	72497-01-05 04:05 G	28200050.44	28200050.67	28200050.89	0.0088	0.0002
Venus	72497-08-18 16:48 G	28200275.98	28200276.20	28200276.42	0.0088	0.0008
Venus	72498-04-01 05:31 G	28200501.52	28200501.73	28200501.96	0.0088	0.0015
Venus	72498-11-12 18:29 G	28200727.06	28200727.27	28200727.49	0.0088	0.0021
Venus	72499-06-26 07:12 G	28200952.60	28200952.80	28200953.02	0.0088	0.0028
Venus	72500-02-06 19:55 G	28201178.14	28201178.33	28201178.55	0.0088	0.0034
Venus	72500-09-20 08:53 G	28201403.68	28201403.87	28201404.07	0.0088	0.0040
Venus	72501-05-03 21:51 G	28201629.22	28201629.41	28201629.60	0.0088	0.0046
Venus	72501-12-15 10:34 G	28201854.78	28201854.94	28201855.13	0.0088	0.0053
Venus	72502-07-28 23:17 G	28202080.33	28202080.47	28202080.65	0.0088	0.0059
Venus	72503-03-11 12:15 G	28202305.88	28202306.01	28202306.17	0.0088	0.0065
Venus	72503-10-23 01:12 G	28202531.43	28202531.55	28202531.69	0.0088	0.0071
Venus	72504-06-04 14:10 G	28202756.99	28202757.09	28202757.20	0.0088	0.0077
Venus	72505-01-16 03:07 G	28202982.57	28202982.63	28202982.70	0.0088	0.0083
Earth	72509-02-27 07:41 G	28204485.69	28204485.82	28204485.98	0.0088	0.0072
Moon	72509-02-27 11:03 G	28204485.84	28204485.96	28204486.11	0.0088	0.0075 *
Moon	72510-03-01 16:34 G	28204852.98	28204853.19	28204853.43	0.0088	0.0042
Earth	72510-03-01 19:27 G	28204853.11	28204853.31	28204853.55	0.0088	0.0046 *
Earth	72511-03-04 07:41 G	28205220.57	28205220.82	28205221.08	0.0088	0.0019
Moon	72511-03-04 09:51 G	28205220.66	28205220.91	28205221.18	0.0088	0.0023 *
Moon	72512-03-05 19:12 G	28205588.05	28205588.30	28205588.56	0.0088	0.0012

Earth	72512-03-05 19:55 G	28205588.07	28205588.33	28205588.59	0.0088	0.0008	*
Mercury	72512-06-14 13:12 G	28205688.99	28205689.05	28205689.10	0.0088	0.0081	
Mercury	72512-09-10 15:07 G	28205777.05	28205777.13	28205777.22	0.0088	0.0073	
Mercury	72512-12-07 17:03 G	28205865.12	28205865.21	28205865.33	0.0088	0.0065	
Mercury	72513-03-05 19:12 G	28205953.19	28205953.30	28205953.43	0.0088	0.0057	
Moon	72513-03-08 07:12 G	28205955.57	28205955.80	28205956.07	0.0088	0.0032	
Earth	72513-03-08 07:41 G	28205955.59	28205955.82	28205956.07	0.0088	0.0035	*
Mercury	72513-06-01 21:36 G	28206041.27	28206041.40	28206041.54	0.0088	0.0048	
Mercury	72513-08-28 23:46 G	28206129.35	28206129.49	28206129.64	0.0088	0.0040	
Mercury	72513-11-25 01:55 G	28206217.43	28206217.58	28206217.73	0.0088	0.0031	
Mercury	72514-02-21 04:05 G	28206305.52	28206305.67	28206305.83	0.0088	0.0023	
Earth	72514-03-10 19:12 G	28206323.14	28206323.30	28206323.51	0.0088	0.0062	
Moon	72514-03-10 20:53 G	28206323.22	28206323.37	28206323.55	0.0088	0.0066	*
Mercury	72514-05-20 06:29 G	28206393.61	28206393.77	28206393.93	0.0088	0.0014	
Mercury	72514-08-16 08:39 G	28206481.70	28206481.86	28206482.02	0.0088	0.0006	
Mercury	72514-11-12 10:48 G	28206569.79	28206569.95	28206570.12	0.0088	0.0004	
Mercury	72515-02-08 12:58 G	28206657.89	28206658.04	28206658.21	0.0088	0.0012	
Moon	72515-03-13 04:34 G	28206690.64	28206690.69	28206690.77	0.0088	0.0085	
Mercury	72515-05-07 15:22 G	28206745.98	28206746.14	28206746.30	0.0088	0.0020	
Mercury	72515-08-03 17:31 G	28206834.08	28206834.23	28206834.39	0.0088	0.0029	
Mercury	72515-10-30 19:41 G	28206922.18	28206922.32	28206922.48	0.0088	0.0038	
Mercury	72516-01-26 21:51 G	28207010.29	28207010.41	28207010.56	0.0088	0.0047	
Mercury	72516-04-24 00:29 G	28207098.39	28207098.52	28207098.65	0.0088	0.0055	
Mercury	72516-07-21 02:39 G	28207186.51	28207186.61	28207186.73	0.0088	0.0064	
Mercury	72516-10-17 04:48 G	28207274.63	28207274.70	28207274.80	0.0088	0.0073	
Mercury	72517-01-13 07:12 G	28207362.75	28207362.80	28207362.87	0.0088	0.0082	
Mars	72542-08-08 01:41 G	28216700.30	28216700.57	28216700.87	0.0089	0.0023	
Venus	72571-02-11 06:58 G	28227114.74	28227114.79	28227114.86	0.0090	0.0086	
Venus	72571-09-24 19:55 G	28227340.25	28227340.33	28227340.45	0.0090	0.0080	
Venus	72572-05-07 09:22 G	28227565.77	28227565.89	28227566.02	0.0090	0.0073	

Venus	72572-12-18 22:05 G	28227791.30	28227791.42	28227791.59	0.0090	0.0067
Venus	72573-08-01 11:31 G	28228016.82	28228016.98	28228017.14	0.0090	0.0060
Venus	72574-03-15 00:15 G	28228242.35	28228242.51	28228242.70	0.0090	0.0054
Venus	72574-10-26 13:27 G	28228467.88	28228468.06	28228468.25	0.0090	0.0047
Venus	72575-06-09 02:24 G	28228693.42	28228693.60	28228693.81	0.0090	0.0041
Venus	72576-01-20 15:36 G	28228918.96	28228919.15	28228919.36	0.0090	0.0034
Venus	72576-09-02 04:48 G	28229144.49	28229144.70	28229144.91	0.0090	0.0027
Venus	72577-04-15 17:46 G	28229370.04	28229370.24	28229370.46	0.0090	0.0021
Venus	72577-11-27 06:58 G	28229595.58	28229595.79	28229596.01	0.0090	0.0014
Venus	72578-07-10 20:10 G	28229821.13	28229821.34	28229821.56	0.0090	0.0007
Venus	72579-02-21 09:22 G	28230046.67	28230046.89	28230047.11	0.0090	0.0000
Venus	72579-10-04 22:19 G	28230272.22	28230272.43	28230272.66	0.0090	0.0007
Venus	72580-05-17 11:46 G	28230497.78	28230497.99	28230498.21	0.0090	0.0013
Venus	72580-12-29 00:58 G	28230723.33	28230723.54	28230723.76	0.0090	0.0020
Venus	72581-08-11 13:55 G	28230948.88	28230949.08	28230949.30	0.0090	0.0027
Venus	72582-03-25 03:22 G	28231174.44	28231174.64	28231174.84	0.0090	0.0033
Venus	72582-11-05 16:19 G	28231400.00	28231400.18	28231400.39	0.0090	0.0040
Venus	72583-06-19 05:31 G	28231625.56	28231625.73	28231625.93	0.0090	0.0047
Venus	72584-01-30 18:58 G	28231851.12	28231851.29	28231851.47	0.0090	0.0053
Venus	72584-09-12 07:55 G	28232076.68	28232076.83	28232077.01	0.0090	0.0060
Venus	72585-04-25 20:53 G	28232302.25	28232302.37	28232302.54	0.0090	0.0067
Venus	72585-12-07 10:19 G	28232527.82	28232527.93	28232528.07	0.0090	0.0073
Venus	72586-07-20 23:17 G	28232753.40	28232753.47	28232753.60	0.0090	0.0080
Venus	72587-03-03 12:43 G	28232978.98	28232979.03	28232979.11	0.0090	0.0086
Earth	72590-08-27 15:07 G	28234252.03	28234252.13	28234252.23	0.0090	0.0082
Moon	72590-08-27 18:15 G	28234252.17	28234252.26	28234252.37	0.0090	0.0082 *
Moon	72591-08-29 23:17 G	28234619.29	28234619.47	28234619.68	0.0090	0.0055
Earth	72591-08-30 01:55 G	28234619.40	28234619.58	28234619.80	0.0090	0.0055 *
Earth	72592-08-31 13:27 G	28234986.83	28234987.06	28234987.32	0.0090	0.0027
Moon	72592-08-31 14:39 G	28234986.88	28234987.11	28234987.38	0.0090	0.0028 *

Moon	72593-09-03 00:43 G	28235354.28	28235354.53	28235354.78	0.0090	0.0001
Earth	72593-09-03 01:12 G	28235354.29	28235354.55	28235354.80	0.0090	0.0001 *
Mercury	72594-04-02 11:46 G	28235565.94	28235565.99	28235566.06	0.0090	0.0083
Mercury	72594-06-29 13:55 G	28235654.01	28235654.08	28235654.18	0.0090	0.0074
Moon	72594-09-05 11:46 G	28235721.74	28235721.99	28235722.24	0.0090	0.0029
Earth	72594-09-05 12:29 G	28235721.78	28235722.02	28235722.26	0.0090	0.0029 *
Mercury	72594-09-25 16:05 G	28235742.08	28235742.17	28235742.29	0.0090	0.0065
Mercury	72594-12-22 18:15 G	28235830.15	28235830.26	28235830.39	0.0090	0.0056
Mercury	72595-03-20 20:24 G	28235918.23	28235918.35	28235918.49	0.0090	0.0047
Mercury	72595-06-16 22:48 G	28236006.31	28236006.45	28236006.59	0.0090	0.0038
Earth	72595-09-07 23:31 G	28236089.30	28236089.48	28236089.69	0.0090	0.0057
Moon	72595-09-08 01:41 G	28236089.40	28236089.57	28236089.78	0.0090	0.0058 *
Mercury	72595-09-13 00:43 G	28236094.39	28236094.53	28236094.68	0.0090	0.0029
Mercury	72595-12-10 02:53 G	28236182.47	28236182.62	28236182.77	0.0090	0.0020
Mercury	72596-03-07 05:03 G	28236270.56	28236270.71	28236270.86	0.0090	0.0012
Mercury	72596-06-03 06:58 G	28236358.64	28236358.79	28236358.95	0.0090	0.0004
Mercury	72596-08-30 09:07 G	28236446.73	28236446.88	28236447.03	0.0090	0.0006
Moon	72596-09-09 07:41 G	28236456.77	28236456.82	28236456.94	0.0090	0.0085
Earth	72596-09-09 10:34 G	28236456.89	28236456.94	28236457.05	0.0090	0.0085 *
Mercury	72596-11-26 11:03 G	28236534.81	28236534.96	28236535.12	0.0090	0.0015
Mercury	72597-02-22 13:12 G	28236622.90	28236623.05	28236623.20	0.0090	0.0023
Mercury	72597-05-21 15:07 G	28236710.99	28236711.13	28236711.28	0.0090	0.0032
Mercury	72597-08-17 17:03 G	28236799.08	28236799.21	28236799.35	0.0090	0.0040
Mercury	72597-11-13 18:58 G	28236887.17	28236887.29	28236887.43	0.0090	0.0049
Mercury	72598-02-09 21:07 G	28236975.27	28236975.38	28236975.50	0.0090	0.0057
Mercury	72598-05-08 22:48 G	28237063.36	28237063.45	28237063.57	0.0090	0.0066
Mercury	72598-08-05 00:58 G	28237151.46	28237151.54	28237151.63	0.0090	0.0074
Mercury	72598-11-01 02:39 G	28237239.57	28237239.61	28237239.69	0.0090	0.0083
Mars	72622-07-25 21:51 G	28245906.21	28245906.41	28245906.66	0.0089	0.0066
Jupiter	72645-03-12 03:51 G	28254171.13	28254171.66	28254172.22	0.0088	0.0007



Venus	72652-08-18 00:15 G	28256887.51	28256887.51	28256887.57	0.0088	0.0087
Venus	72653-03-31 13:12 G	28257112.99	28257113.05	28257113.16	0.0088	0.0081
Venus	72653-11-12 02:24 G	28257338.51	28257338.60	28257338.74	0.0088	0.0075
Venus	72654-06-25 15:51 G	28257564.03	28257564.16	28257564.31	0.0088	0.0068
Venus	72655-02-06 04:34 G	28257789.55	28257789.69	28257789.86	0.0088	0.0062
Venus	72655-09-19 17:31 G	28258015.07	28258015.23	28258015.42	0.0088	0.0056
Venus	72656-05-02 06:29 G	28258240.60	28258240.77	28258240.97	0.0088	0.0050
Venus	72656-12-13 19:41 G	28258466.14	28258466.32	28258466.53	0.0088	0.0043
Venus	72657-07-27 08:39 G	28258691.67	28258691.86	28258692.07	0.0088	0.0037
Venus	72658-03-09 21:36 G	28258917.21	28258917.40	28258917.62	0.0088	0.0031
Venus	72658-10-21 10:48 G	28259142.74	28259142.95	28259143.17	0.0088	0.0024
Venus	72659-06-03 23:46 G	28259368.28	28259368.49	28259368.72	0.0088	0.0018
Venus	72660-01-15 12:58 G	28259593.82	28259594.04	28259594.26	0.0088	0.0011
Venus	72660-08-28 01:41 G	28259819.35	28259819.57	28259819.80	0.0088	0.0005
Venus	72661-04-10 14:39 G	28260044.89	28260045.11	28260045.34	0.0088	0.0002
Venus	72661-11-22 03:36 G	28260270.44	28260270.65	28260270.88	0.0088	0.0009
Venus	72662-07-05 16:34 G	28260495.98	28260496.19	28260496.41	0.0088	0.0015
Venus	72663-02-16 05:31 G	28260721.51	28260721.73	28260721.94	0.0088	0.0021
Venus	72663-09-29 18:00 G	28260947.05	28260947.25	28260947.47	0.0088	0.0028
Venus	72664-05-12 06:58 G	28261172.59	28261172.79	28261173.00	0.0088	0.0034
Venus	72664-12-23 19:55 G	28261398.14	28261398.33	28261398.53	0.0088	0.0040
Venus	72665-08-06 08:24 G	28261623.68	28261623.85	28261624.06	0.0088	0.0047
Venus	72666-03-19 21:22 G	28261849.23	28261849.39	28261849.58	0.0088	0.0053
Venus	72666-10-31 10:19 G	28262074.78	28262074.93	28262075.10	0.0088	0.0059
Venus	72667-06-13 23:17 G	28262300.33	28262300.47	28262300.62	0.0088	0.0065
Venus	72668-01-25 11:46 G	28262525.88	28262525.99	28262526.14	0.0088	0.0072
Venus	72668-09-07 00:29 G	28262751.44	28262751.52	28262751.65	0.0088	0.0078
Venus	72669-04-20 13:27 G	28262977.02	28262977.06	28262977.14	0.0088	0.0084
Moon	72673-02-27 14:10 G	28264386.07	28264386.09	28264386.12	0.0088	0.0087
Earth	72673-02-27 16:05 G	28264386.11	28264386.17	28264386.27	0.0088	0.0083 *

Earth	72674-03-02 03:51 G	28264753.49	28264753.66	28264753.89	0.0088	0.0057
Moon	72674-03-02 06:00 G	28264753.54	28264753.75	28264753.97	0.0088	0.0053 *
Moon	72675-03-04 15:51 G	28265120.93	28265121.16	28265121.40	0.0088	0.0033
Earth	72675-03-04 16:19 G	28265120.95	28265121.18	28265121.44	0.0088	0.0030 *
Moon	72676-03-06 03:22 G	28265488.37	28265488.64	28265488.91	0.0088	0.0001
Earth	72676-03-06 04:34 G	28265488.43	28265488.69	28265488.95	0.0088	0.0003 *
Mercury	72676-12-14 10:05 G	28265771.88	28265771.92	28265771.97	0.0088	0.0084
Earth	72677-03-08 16:19 G	28265855.94	28265856.18	28265856.44	0.0088	0.0024
Moon	72677-03-08 18:15 G	28265856.02	28265856.26	28265856.51	0.0088	0.0021 *
Mercury	72677-03-12 12:00 G	28265859.94	28265860.00	28265860.09	0.0088	0.0076
Mercury	72677-06-08 14:10 G	28265948.00	28265948.09	28265948.20	0.0088	0.0068
Mercury	72677-09-04 16:19 G	28266036.07	28266036.18	28266036.31	0.0088	0.0060
Mercury	72677-12-01 18:43 G	28266124.15	28266124.28	28266124.41	0.0088	0.0051
Mercury	72678-02-27 20:39 G	28266212.23	28266212.36	28266212.51	0.0088	0.0043
Moon	72678-03-11 00:58 G	28266223.35	28266223.54	28266223.77	0.0088	0.0054
Earth	72678-03-11 03:51 G	28266223.47	28266223.66	28266223.90	0.0088	0.0051 *
Mercury	72678-05-26 23:03 G	28266300.31	28266300.46	28266300.61	0.0088	0.0034
Mercury	72678-08-23 01:12 G	28266388.40	28266388.55	28266388.70	0.0088	0.0026
Mercury	72678-11-19 03:22 G	28266476.48	28266476.64	28266476.80	0.0088	0.0017
Mercury	72679-02-15 05:31 G	28266564.57	28266564.73	28266564.89	0.0088	0.0009
Earth	72679-03-13 16:05 G	28266591.06	28266591.17	28266591.31	0.0088	0.0077
Moon	72679-03-13 19:27 G	28266591.19	28266591.31	28266591.47	0.0088	0.0074 *
Mercury	72679-05-14 07:41 G	28266652.66	28266652.82	28266652.99	0.0088	0.0002
Mercury	72679-08-10 09:51 G	28266740.76	28266740.91	28266741.08	0.0088	0.0009
Mercury	72679-11-06 12:15 G	28266828.85	28266829.01	28266829.17	0.0088	0.0017
Mercury	72680-02-02 14:24 G	28266916.95	28266917.10	28266917.26	0.0088	0.0026
Mercury	72680-04-30 16:48 G	28267005.05	28267005.20	28267005.35	0.0088	0.0034
Mercury	72680-07-27 18:43 G	28267093.15	28267093.28	28267093.43	0.0088	0.0043
Mercury	72680-10-23 20:53 G	28267181.25	28267181.37	28267181.52	0.0088	0.0052
Mercury	72681-01-19 23:17 G	28267269.36	28267269.47	28267269.60	0.0088	0.0061

Mercury	72681-04-18 01:41 G	28267357.48	28267357.57	28267357.68	0.0088	0.0069
Mercury	72681-07-15 04:05 G	28267445.60	28267445.67	28267445.75	0.0088	0.0078
Mercury	72681-10-11 06:15 G	28267533.75	28267533.76	28267533.79	0.0088	0.0087
Mars	72706-03-25 16:19 G	28276463.93	28276464.18	28276464.46	0.0089	0.0035
Venus	72735-05-17 18:00 G	28287109.22	28287109.25	28287109.32	0.0090	0.0087
Venus	72735-12-29 06:58 G	28287334.72	28287334.79	28287334.91	0.0090	0.0081
Venus	72736-08-10 20:10 G	28287560.24	28287560.34	28287560.48	0.0090	0.0074
Venus	72737-03-24 09:07 G	28287785.76	28287785.88	28287786.05	0.0090	0.0068
Venus	72737-11-04 22:19 G	28288011.29	28288011.43	28288011.61	0.0090	0.0061
Venus	72738-06-18 11:46 G	28288236.82	28288236.99	28288237.17	0.0090	0.0054
Venus	72739-01-30 00:29 G	28288462.35	28288462.52	28288462.72	0.0090	0.0048
Venus	72739-09-12 13:41 G	28288687.88	28288688.07	28288688.27	0.0090	0.0041
Venus	72740-04-25 03:07 G	28288913.43	28288913.63	28288913.83	0.0090	0.0034
Venus	72740-12-06 15:51 G	28289138.96	28289139.16	28289139.38	0.0090	0.0028
Venus	72741-07-20 05:03 G	28289364.50	28289364.71	28289364.93	0.0090	0.0021
Venus	72742-03-02 18:15 G	28289590.04	28289590.26	28289590.47	0.0090	0.0014
Venus	72742-10-14 07:12 G	28289815.58	28289815.80	28289816.02	0.0090	0.0007
Venus	72743-05-27 20:24 G	28290041.13	28290041.35	28290041.57	0.0090	0.0001
Venus	72744-01-08 09:22 G	28290266.68	28290266.89	28290267.11	0.0090	0.0007
Venus	72744-08-20 22:34 G	28290492.23	28290492.44	28290492.66	0.0090	0.0013
Venus	72745-04-03 11:31 G	28290717.78	28290717.98	28290718.20	0.0090	0.0020
Venus	72745-11-15 00:43 G	28290943.33	28290943.53	28290943.75	0.0090	0.0027
Venus	72746-06-28 13:41 G	28291168.89	28291169.07	28291169.29	0.0090	0.0034
Venus	72747-02-09 03:07 G	28291394.44	28291394.63	28291394.83	0.0090	0.0040
Venus	72747-09-22 16:05 G	28291620.00	28291620.17	28291620.37	0.0090	0.0047
Venus	72748-05-05 05:17 G	28291845.56	28291845.72	28291845.91	0.0090	0.0054
Venus	72748-12-16 18:43 G	28292071.13	28292071.28	28292071.45	0.0090	0.0060
Venus	72749-07-30 07:41 G	28292296.70	28292296.82	28292296.99	0.0090	0.0067
Venus	72750-03-12 21:07 G	28292522.26	28292522.38	28292522.51	0.0090	0.0073
Venus	72750-10-24 10:05 G	28292747.84	28292747.92	28292748.04	0.0090	0.0080

Venus	72751-06-06 23:46 G	28292973.44	28292973.49	28292973.55	0.0090	0.0086
Moon	72754-08-28 22:48 G	28294152.45	28294152.45	28294152.49	0.0090	0.0089
Earth	72755-08-31 12:15 G	28294519.85	28294520.01	28294520.19	0.0090	0.0066
Moon	72755-08-31 13:12 G	28294519.92	28294520.05	28294520.24	0.0090	0.0071 *
Earth	72756-09-01 23:17 G	28294887.26	28294887.47	28294887.71	0.0090	0.0039
Moon	72756-09-01 23:46 G	28294887.27	28294887.49	28294887.73	0.0090	0.0034 *
Moon	72757-09-04 09:22 G	28295254.63	28295254.89	28295255.15	0.0090	0.0015
Earth	72757-09-04 10:48 G	28295254.70	28295254.95	28295255.21	0.0090	0.0011 *
Earth	72758-09-06 22:19 G	28295622.18	28295622.43	28295622.68	0.0090	0.0017
Moon	72758-09-07 00:15 G	28295622.28	28295622.51	28295622.76	0.0090	0.0022 *
Mercury	72758-10-03 09:07 G	28295648.84	28295648.88	28295648.92	0.0090	0.0086
Mercury	72758-12-30 11:17 G	28295736.90	28295736.97	28295737.05	0.0090	0.0077
Mercury	72759-03-28 13:27 G	28295824.96	28295825.06	28295825.16	0.0090	0.0068
Mercury	72759-06-24 15:22 G	28295913.04	28295913.14	28295913.27	0.0090	0.0059
Moon	72759-09-09 06:00 G	28295989.53	28295989.75	28295989.99	0.0090	0.0040
Earth	72759-09-09 09:22 G	28295989.68	28295989.89	28295990.12	0.0090	0.0045 *
Mercury	72759-09-20 17:31 G	28296001.11	28296001.23	28296001.37	0.0090	0.0051
Mercury	72759-12-17 19:41 G	28296089.19	28296089.32	28296089.47	0.0090	0.0042
Mercury	72760-03-14 21:51 G	28296177.27	28296177.41	28296177.56	0.0090	0.0033
Mercury	72760-06-11 00:00 G	28296265.36	28296265.50	28296265.66	0.0090	0.0024
Mercury	72760-09-07 02:10 G	28296353.44	28296353.59	28296353.75	0.0090	0.0015
Earth	72760-09-10 20:24 G	28296357.23	28296357.35	28296357.52	0.0090	0.0073
Moon	72760-09-11 00:15 G	28296357.39	28296357.51	28296357.64	0.0090	0.0077 *
Mercury	72760-12-04 04:19 G	28296441.53	28296441.68	28296441.83	0.0090	0.0006
Mercury	72761-03-02 06:29 G	28296529.61	28296529.77	28296529.92	0.0090	0.0003
Mercury	72761-05-29 08:24 G	28296617.70	28296617.85	28296618.00	0.0090	0.0011
Mercury	72761-08-25 10:34 G	28296705.79	28296705.94	28296706.09	0.0090	0.0020
Mercury	72761-11-21 12:29 G	28296793.88	28296794.02	28296794.17	0.0090	0.0028
Mercury	72762-02-17 14:39 G	28296881.97	28296882.11	28296882.25	0.0090	0.0037
Mercury	72762-05-16 16:19 G	28296970.06	28296970.18	28296970.32	0.0090	0.0046

Mercury	72762-08-12 18:15 G	28297058.15	28297058.26	28297058.40	0.0090	0.0055
Mercury	72762-11-08 20:24 G	28297146.25	28297146.35	28297146.47	0.0090	0.0063
Mercury	72763-02-04 22:34 G	28297234.35	28297234.44	28297234.53	0.0089	0.0071
Mercury	72763-05-04 00:15 G	28297322.46	28297322.51	28297322.59	0.0089	0.0080
Mercury	72763-07-31 02:10 G	28297410.58	28297410.59	28297410.63	0.0089	0.0088
Mars	72788-02-03 15:22 G	28306363.82	28306364.14	28306364.46	0.0089	0.0032
Jupiter	72811-05-12 01:41 G	28314862.16	28314862.57	28314863.03	0.0088	0.0052
Venus	72816-11-20 12:00 G	28316881.98	28316882.00	28316882.02	0.0088	0.0087
Venus	72817-07-04 00:43 G	28317107.45	28317107.53	28317107.62	0.0088	0.0081
Venus	72818-02-14 13:27 G	28317332.96	28317333.06	28317333.19	0.0088	0.0075
Venus	72818-09-28 02:24 G	28317558.48	28317558.60	28317558.75	0.0088	0.0069
Venus	72819-05-11 15:07 G	28317784.00	28317784.13	28317784.31	0.0088	0.0063
Venus	72819-12-23 04:34 G	28318009.53	28318009.69	28318009.87	0.0088	0.0056
Venus	72820-08-04 17:17 G	28318235.05	28318235.22	28318235.42	0.0088	0.0050
Venus	72821-03-18 06:15 G	28318460.58	28318460.76	28318460.97	0.0088	0.0044
Venus	72821-10-29 19:27 G	28318686.12	28318686.31	28318686.52	0.0088	0.0037
Venus	72822-06-12 08:24 G	28318911.65	28318911.85	28318912.07	0.0088	0.0031
Venus	72823-01-23 21:36 G	28319137.18	28319137.40	28319137.61	0.0088	0.0024
Venus	72823-09-06 10:19 G	28319362.72	28319362.93	28319363.15	0.0088	0.0018
Venus	72824-04-18 23:17 G	28319588.26	28319588.47	28319588.70	0.0088	0.0012
Venus	72824-11-30 12:29 G	28319813.80	28319814.02	28319814.25	0.0088	0.0005
Venus	72825-07-14 01:27 G	28320039.34	28320039.56	28320039.79	0.0088	0.0002
Venus	72826-02-24 14:24 G	28320264.88	28320265.10	28320265.32	0.0088	0.0008
Venus	72826-10-08 03:07 G	28320490.42	28320490.63	28320490.86	0.0088	0.0015
Venus	72827-05-21 16:19 G	28320715.96	28320716.18	28320716.39	0.0088	0.0021
Venus	72828-01-02 05:03 G	28320941.51	28320941.71	28320941.93	0.0088	0.0028
Venus	72828-08-14 18:00 G	28321167.05	28321167.25	28321167.46	0.0088	0.0034
Venus	72829-03-28 06:29 G	28321392.59	28321392.77	28321392.99	0.0088	0.0041
Venus	72829-11-08 19:27 G	28321618.14	28321618.31	28321618.52	0.0088	0.0047
Venus	72830-06-22 08:39 G	28321843.69	28321843.86	28321844.04	0.0088	0.0053

Venus	72831-02-02 20:53 G	28322069.24	28322069.37	28322069.56	0.0088	0.0060
Venus	72831-09-16 09:51 G	28322294.78	28322294.91	28322295.08	0.0088	0.0066
Venus	72832-04-28 22:48 G	28322520.34	28322520.45	28322520.59	0.0088	0.0072
Venus	72832-12-10 11:46 G	28322745.91	28322745.99	28322746.11	0.0088	0.0078
Venus	72833-07-24 00:43 G	28322971.48	28322971.53	28322971.60	0.0088	0.0084
Earth	72838-03-02 13:27 G	28324653.90	28324654.06	28324654.24	0.0088	0.0067
Moon	72838-03-02 13:55 G	28324653.93	28324654.08	28324654.24	0.0088	0.0069 *
Moon	72839-03-05 00:15 G	28325021.28	28325021.51	28325021.77	0.0088	0.0038
Earth	72839-03-05 01:27 G	28325021.35	28325021.56	28325021.81	0.0088	0.0041 *
Earth	72840-03-06 13:41 G	28325388.82	28325389.07	28325389.34	0.0088	0.0014
Moon	72840-03-06 16:19 G	28325388.94	28325389.18	28325389.45	0.0088	0.0017 *
Moon	72841-03-08 22:34 G	28325756.18	28325756.44	28325756.70	0.0088	0.0015
Earth	72841-03-09 01:55 G	28325756.32	28325756.58	28325756.84	0.0088	0.0013 *
Mercury	72841-06-15 06:58 G	28325854.79	28325854.79	28325854.84	0.0088	0.0087
Mercury	72841-09-11 09:36 G	28325942.83	28325942.90	28325942.97	0.0088	0.0078
Mercury	72841-12-08 11:31 G	28326030.89	28326030.98	28326031.08	0.0088	0.0070
Mercury	72842-03-06 13:41 G	28326118.97	28326119.07	28326119.19	0.0088	0.0062
Earth	72842-03-11 13:27 G	28326123.85	28326124.06	28326124.31	0.0088	0.0040
Moon	72842-03-11 17:17 G	28326123.99	28326124.22	28326124.47	0.0088	0.0036 *
Mercury	72842-06-02 15:36 G	28326207.04	28326207.15	28326207.29	0.0088	0.0054
Mercury	72842-08-29 18:00 G	28326295.12	28326295.25	28326295.39	0.0088	0.0045
Mercury	72842-11-25 20:10 G	28326383.20	28326383.34	28326383.49	0.0088	0.0037
Mercury	72843-02-21 22:19 G	28326471.28	28326471.43	28326471.59	0.0088	0.0028
Moon	72843-03-13 22:05 G	28326491.28	28326491.42	28326491.59	0.0088	0.0069
Earth	72843-03-14 01:41 G	28326491.41	28326491.57	28326491.75	0.0088	0.0066 *
Mercury	72843-05-21 00:29 G	28326559.37	28326559.52	28326559.68	0.0088	0.0020
Mercury	72843-08-17 02:39 G	28326647.46	28326647.61	28326647.77	0.0088	0.0012
Mercury	72843-11-13 05:03 G	28326735.54	28326735.71	28326735.87	0.0088	0.0004
Mercury	72844-02-09 07:12 G	28326823.64	28326823.80	28326823.96	0.0088	0.0006
Mercury	72844-05-07 09:22 G	28326911.73	28326911.89	28326912.05	0.0088	0.0014

Mercury	72844-08-03 11:31 G	28326999.83	28326999.98	28327000.14	0.0088	0.0023
Mercury	72844-10-30 13:27 G	28327087.92	28327088.06	28327088.23	0.0088	0.0032
Mercury	72845-01-26 15:51 G	28327176.02	28327176.16	28327176.31	0.0088	0.0040
Mercury	72845-04-24 18:00 G	28327264.13	28327264.25	28327264.40	0.0088	0.0049
Mercury	72845-07-21 20:10 G	28327352.23	28327352.34	28327352.48	0.0088	0.0058
Mercury	72845-10-17 22:48 G	28327440.35	28327440.45	28327440.56	0.0088	0.0066
Mercury	72846-01-14 00:58 G	28327528.46	28327528.54	28327528.63	0.0088	0.0075
Mercury	72846-04-12 03:07 G	28327616.60	28327616.63	28327616.69	0.0088	0.0084
Mars	72871-10-02 23:31 G	28336921.26	28336921.48	28336921.75	0.0089	0.0049
Venus	72899-08-19 04:48 G	28347103.68	28347103.70	28347103.77	0.0090	0.0088
Venus	72900-04-01 18:15 G	28347329.18	28347329.26	28347329.36	0.0090	0.0081
Venus	72900-11-13 07:12 G	28347554.70	28347554.80	28347554.94	0.0090	0.0075
Venus	72901-06-26 20:39 G	28347780.22	28347780.36	28347780.51	0.0090	0.0068
Venus	72902-02-07 09:22 G	28348005.75	28348005.89	28348006.07	0.0090	0.0062
Venus	72902-09-20 22:34 G	28348231.28	28348231.44	28348231.63	0.0090	0.0055
Venus	72903-05-04 12:00 G	28348456.82	28348457.00	28348457.19	0.0090	0.0048
Venus	72903-12-16 00:58 G	28348682.36	28348682.54	28348682.74	0.0090	0.0042
Venus	72904-07-28 13:55 G	28348907.89	28348908.08	28348908.30	0.0090	0.0035
Venus	72905-03-11 03:07 G	28349133.43	28349133.63	28349133.84	0.0090	0.0028
Venus	72905-10-22 16:19 G	28349358.97	28349359.18	28349359.39	0.0090	0.0021
Venus	72906-06-05 05:17 G	28349584.52	28349584.72	28349584.95	0.0090	0.0015
Venus	72907-01-16 18:29 G	28349810.06	28349810.27	28349810.49	0.0090	0.0008
Venus	72907-08-30 07:41 G	28350035.60	28350035.82	28350036.04	0.0090	0.0001
Venus	72908-04-11 20:39 G	28350261.15	28350261.36	28350261.58	0.0090	0.0006
Venus	72908-11-23 09:51 G	28350486.70	28350486.91	28350487.13	0.0090	0.0013
Venus	72909-07-06 22:48 G	28350712.25	28350712.45	28350712.67	0.0090	0.0020
Venus	72910-02-17 11:46 G	28350937.80	28350937.99	28350938.21	0.0090	0.0027
Venus	72910-10-01 00:58 G	28351163.35	28351163.54	28351163.75	0.0090	0.0033
Venus	72911-05-14 14:24 G	28351388.91	28351389.10	28351389.30	0.0090	0.0040
Venus	72911-12-26 03:22 G	28351614.47	28351614.64	28351614.84	0.0090	0.0047

Venus	72912-08-07 16:19 G	28351840.03	28351840.18	28351840.38	0.0090	0.0054
Venus	72913-03-21 06:00 G	28352065.59	28352065.75	28352065.91	0.0090	0.0060
Venus	72913-11-01 18:58 G	28352291.16	28352291.29	28352291.45	0.0090	0.0067
Venus	72914-06-15 07:55 G	28352516.73	28352516.83	28352516.98	0.0090	0.0074
Venus	72915-01-26 21:36 G	28352742.31	28352742.40	28352742.50	0.0090	0.0080
Venus	72915-09-09 10:19 G	28352967.90	28352967.93	28352968.01	0.0090	0.0087
Earth	72919-08-31 23:03 G	28354420.34	28354420.46	28354420.60	0.0090	0.0077
Moon	72919-08-31 23:03 G	28354420.37	28354420.46	28354420.60	0.0090	0.0079 *
Moon	72920-09-02 08:10 G	28354787.63	28354787.84	28354788.07	0.0090	0.0048
Earth	72920-09-02 10:05 G	28354787.73	28354787.92	28354788.15	0.0090	0.0050 *
Earth	72921-09-04 21:36 G	28355155.16	28355155.40	28355155.65	0.0090	0.0022
Moon	72921-09-05 00:29 G	28355155.28	28355155.52	28355155.76	0.0090	0.0024 *
Moon	72922-09-07 05:31 G	28355522.48	28355522.73	28355522.99	0.0090	0.0007
Earth	72922-09-07 08:53 G	28355522.61	28355522.87	28355523.12	0.0090	0.0005 *
Mercury	72923-04-04 06:29 G	28355731.76	28355731.77	28355731.78	0.0090	0.0089
Mercury	72923-07-01 08:10 G	28355819.79	28355819.84	28355819.93	0.0090	0.0081
Earth	72923-09-09 19:55 G	28355890.10	28355890.33	28355890.57	0.0090	0.0033
Moon	72923-09-09 23:31 G	28355890.25	28355890.48	28355890.73	0.0090	0.0032 *
Mercury	72923-09-27 10:19 G	28355907.86	28355907.93	28355908.04	0.0090	0.0072
Mercury	72923-12-24 12:43 G	28355995.93	28355996.03	28355996.15	0.0090	0.0062
Mercury	72924-03-21 14:53 G	28356084.00	28356084.12	28356084.25	0.0090	0.0054
Mercury	72924-06-17 17:03 G	28356172.08	28356172.21	28356172.35	0.0090	0.0045
Moon	72924-09-11 04:19 G	28356257.50	28356257.68	28356257.86	0.0090	0.0062
Earth	72924-09-11 06:58 G	28356257.62	28356257.79	28356258.00	0.0090	0.0061 *
Mercury	72924-09-13 19:12 G	28356260.16	28356260.30	28356260.45	0.0090	0.0036
Mercury	72924-12-10 21:22 G	28356348.25	28356348.39	28356348.54	0.0090	0.0027
Mercury	72925-03-08 23:31 G	28356436.33	28356436.48	28356436.63	0.0090	0.0018
Mercury	72925-06-05 01:41 G	28356524.42	28356524.57	28356524.72	0.0090	0.0009
Mercury	72925-09-01 03:51 G	28356612.50	28356612.66	28356612.81	0.0090	0.0002
Earth	72925-09-13 18:29 G	28356625.23	28356625.27	28356625.32	0.0090	0.0088



Moon	72925-09-13 21:07 G	28356625.35	28356625.38	28356625.44	0.0090	0.0088
Mercury	72925-11-28 05:46 G	28356700.59	28356700.74	28356700.90	0.0090	0.0008
Mercury	72926-02-24 07:55 G	28356788.68	28356788.83	28356788.98	0.0090	0.0017
Mercury	72926-05-23 09:51 G	28356876.77	28356876.91	28356877.06	0.0090	0.0026
Mercury	72926-08-19 11:46 G	28356964.86	28356964.99	28356965.14	0.0090	0.0034
Mercury	72926-11-15 13:55 G	28357052.95	28357053.08	28357053.22	0.0090	0.0043
Mercury	72927-02-11 15:51 G	28357141.04	28357141.16	28357141.29	0.0090	0.0051
Mercury	72927-05-10 17:46 G	28357229.14	28357229.24	28357229.36	0.0090	0.0060
Mercury	72927-08-06 19:41 G	28357317.24	28357317.32	28357317.43	0.0090	0.0069
Mercury	72927-11-02 21:51 G	28357405.34	28357405.41	28357405.50	0.0089	0.0077
Mercury	72928-01-29 23:46 G	28357493.46	28357493.49	28357493.55	0.0089	0.0085
Mars	72951-09-18 03:51 G	28366125.36	28366125.66	28366125.99	0.0089	0.0036
Venus	72981-10-06 11:31 G	28377101.92	28377101.98	28377102.08	0.0088	0.0082
Venus	72982-05-20 00:29 G	28377327.43	28377327.52	28377327.65	0.0088	0.0076
Venus	72982-12-31 13:55 G	28377552.95	28377553.08	28377553.22	0.0088	0.0069
Venus	72983-08-14 02:39 G	28377778.47	28377778.61	28377778.78	0.0088	0.0063
Venus	72984-03-26 15:22 G	28378003.99	28378004.14	28378004.33	0.0088	0.0057
Venus	72984-11-07 04:48 G	28378229.53	28378229.70	28378229.89	0.0088	0.0050
Venus	72985-06-20 17:31 G	28378455.06	28378455.23	28378455.44	0.0088	0.0044
Venus	72986-02-01 06:29 G	28378680.58	28378680.77	28378680.99	0.0088	0.0038
Venus	72986-09-14 19:27 G	28378906.11	28378906.31	28378906.53	0.0088	0.0031
Venus	72987-04-28 08:24 G	28379131.65	28379131.85	28379132.08	0.0088	0.0025
Venus	72987-12-09 21:36 G	28379357.19	28379357.40	28379357.63	0.0088	0.0018
Venus	72988-07-22 10:34 G	28379582.73	28379582.94	28379583.17	0.0088	0.0012
Venus	72989-03-04 23:46 G	28379808.26	28379808.49	28379808.71	0.0088	0.0005
Venus	72989-10-16 12:43 G	28380033.80	28380034.03	28380034.25	0.0088	0.0002
Venus	72990-05-30 01:27 G	28380259.35	28380259.56	28380259.79	0.0088	0.0009
Venus	72991-01-10 14:24 G	28380484.89	28380485.10	28380485.33	0.0088	0.0015
Venus	72991-08-24 03:07 G	28380710.43	28380710.63	28380710.86	0.0088	0.0022
Venus	72992-04-05 16:19 G	28380935.97	28380936.18	28380936.39	0.0088	0.0028

Venus	72992-11-17 05:31 G	28381161.52	28381161.73	28381161.93	0.0088	0.0034
Venus	72993-06-30 18:00 G	28381387.07	28381387.25	28381387.46	0.0088	0.0041
Venus	72994-02-11 06:58 G	28381612.61	28381612.79	28381612.99	0.0088	0.0047
Venus	72994-09-24 19:27 G	28381838.16	28381838.31	28381838.51	0.0088	0.0054
Venus	72995-05-08 08:24 G	28382063.71	28382063.85	28382064.03	0.0088	0.0060
Venus	72995-12-19 21:36 G	28382289.27	28382289.40	28382289.55	0.0088	0.0066
Venus	72996-08-01 10:05 G	28382514.82	28382514.92	28382515.07	0.0088	0.0073
Venus	72997-03-14 22:48 G	28382740.38	28382740.45	28382740.57	0.0088	0.0079
Venus	72997-10-26 11:46 G	28382965.96	28382965.99	28382966.06	0.0088	0.0085

# 74TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 74th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	73002-03-03 19:55 G		28384554.26	28384554.33	28384554.45	0.0088	0.0082	
Earth	73002-03-03 22:05 G		28384554.33	28384554.42	28384554.57	0.0088	0.0078	*
Earth	73003-03-06 10:48 G		28384921.74	28384921.95	28384922.17	0.0088	0.0051	
Moon	73003-03-06 13:27 G		28384921.85	28384922.06	28384922.28	0.0088	0.0047	*
Moon	73004-03-07 19:12 G		28385289.05	28385289.30	28385289.55	0.0088	0.0029	
Earth	73004-03-07 22:34 G		28385289.21	28385289.44	28385289.71	0.0088	0.0025	*
Earth	73005-03-10 11:03 G		28385656.70	28385656.96	28385657.22	0.0088	0.0002	
Moon	73005-03-10 14:24 G		28385656.85	28385657.10	28385657.37	0.0088	0.0007	*
Moon	73006-03-12 19:41 G		28386024.08	28386024.32	28386024.58	0.0088	0.0025	

Earth	73006-03-12 23:03 G	28386024.22	28386024.46	28386024.72	0.0088	0.0029	*
Mercury	73006-03-14 06:29 G	28386025.73	28386025.77	28386025.85	0.0088	0.0081	
Mercury	73006-06-10 08:39 G	28386113.79	28386113.86	28386113.96	0.0088	0.0073	
Mercury	73006-09-06 11:03 G	28386201.85	28386201.96	28386202.07	0.0088	0.0064	
Mercury	73006-12-03 12:58 G	28386289.93	28386290.04	28386290.17	0.0088	0.0056	
Mercury	73007-03-01 15:07 G	28386378.00	28386378.13	28386378.27	0.0088	0.0048	
Earth	73007-03-15 10:34 G	28386391.77	28386391.94	28386392.17	0.0088	0.0056	
Moon	73007-03-15 13:27 G	28386391.89	28386392.06	28386392.28	0.0088	0.0060	*
Mercury	73007-05-28 17:17 G	28386466.09	28386466.22	28386466.37	0.0088	0.0039	
Mercury	73007-08-24 19:27 G	28386554.17	28386554.31	28386554.47	0.0088	0.0031	
Mercury	73007-11-20 21:36 G	28386642.25	28386642.40	28386642.56	0.0088	0.0023	
Mercury	73008-02-17 00:00 G	28386730.34	28386730.50	28386730.66	0.0088	0.0014	
Moon	73008-03-16 21:51 G	28386759.30	28386759.41	28386759.52	0.0088	0.0078	
Earth	73008-03-16 22:48 G	28386759.38	28386759.45	28386759.56	0.0088	0.0082	*
Mercury	73008-05-15 02:10 G	28386818.43	28386818.59	28386818.75	0.0088	0.0006	
Mercury	73008-08-11 04:19 G	28386906.52	28386906.68	28386906.84	0.0088	0.0003	
Mercury	73008-11-07 06:29 G	28386994.61	28386994.77	28386994.93	0.0088	0.0011	
Mercury	73009-02-03 08:39 G	28387082.70	28387082.86	28387083.02	0.0088	0.0020	
Mercury	73009-05-02 10:48 G	28387170.80	28387170.95	28387171.11	0.0088	0.0029	
Mercury	73009-07-29 13:12 G	28387258.90	28387259.05	28387259.19	0.0088	0.0037	
Mercury	73009-10-25 15:07 G	28387347.00	28387347.13	28387347.28	0.0088	0.0046	
Mercury	73010-01-21 17:17 G	28387435.11	28387435.22	28387435.36	0.0088	0.0055	
Mercury	73010-04-19 19:55 G	28387523.22	28387523.33	28387523.44	0.0088	0.0063	
Mercury	73010-07-16 22:05 G	28387611.33	28387611.42	28387611.51	0.0088	0.0072	
Mercury	73010-10-13 00:15 G	28387699.46	28387699.51	28387699.58	0.0088	0.0081	
Mars	73035-05-20 16:19 G	28396684.89	28396685.18	28396685.47	0.0089	0.0008	
Venus	73063-11-22 17:03 G	28407098.18	28407098.21	28407098.25	0.0090	0.0088	
Venus	73064-07-05 05:46 G	28407323.67	28407323.74	28407323.84	0.0090	0.0082	
Venus	73065-02-15 18:58 G	28407549.18	28407549.29	28407549.41	0.0090	0.0075	
Venus	73065-09-29 07:41 G	28407774.70	28407774.82	28407774.98	0.0090	0.0069	

Venus	73066-05-12 21:07 G	28408000.23	28408000.38	28408000.54	0.0090	0.0062
Venus	73066-12-24 09:51 G	28408225.76	28408225.91	28408226.10	0.0090	0.0056
Venus	73067-08-06 23:03 G	28408451.29	28408451.46	28408451.66	0.0090	0.0049
Venus	73068-03-19 12:15 G	28408676.83	28408677.01	28408677.21	0.0090	0.0042
Venus	73068-10-31 01:27 G	28408902.37	28408902.56	28408902.77	0.0090	0.0035
Venus	73069-06-13 14:24 G	28409127.91	28409128.10	28409128.32	0.0090	0.0029
Venus	73070-01-25 03:36 G	28409353.45	28409353.65	28409353.87	0.0090	0.0022
Venus	73070-09-07 16:48 G	28409578.99	28409579.20	28409579.42	0.0090	0.0015
Venus	73071-04-21 06:00 G	28409804.53	28409804.75	28409804.97	0.0090	0.0008
Venus	73071-12-02 19:12 G	28410030.08	28410030.30	28410030.52	0.0090	0.0002
Venus	73072-07-15 08:10 G	28410255.62	28410255.84	28410256.06	0.0090	0.0006
Venus	73073-02-25 21:07 G	28410481.17	28410481.38	28410481.60	0.0090	0.0013
Venus	73073-10-09 10:05 G	28410706.72	28410706.92	28410707.14	0.0090	0.0020
Venus	73074-05-22 23:17 G	28410932.27	28410932.47	28410932.69	0.0090	0.0027
Venus	73075-01-03 12:15 G	28411157.82	28411158.01	28411158.23	0.0090	0.0034
Venus	73075-08-17 01:41 G	28411383.38	28411383.57	28411383.77	0.0090	0.0040
Venus	73076-03-29 14:39 G	28411608.93	28411609.11	28411609.30	0.0090	0.0047
Venus	73076-11-10 03:36 G	28411834.49	28411834.65	28411834.84	0.0090	0.0054
Venus	73077-06-23 16:34 G	28412060.06	28412060.19	28412060.38	0.0090	0.0061
Venus	73078-02-04 06:15 G	28412285.62	28412285.76	28412285.91	0.0090	0.0067
Venus	73078-09-17 18:58 G	28412511.19	28412511.29	28412511.44	0.0090	0.0074
Venus	73079-05-01 08:10 G	28412736.77	28412736.84	28412736.96	0.0090	0.0081
Venus	73079-12-12 21:36 G	28412962.37	28412962.40	28412962.47	0.0090	0.0087
Moon	73083-09-01 07:27 G	28414320.75	28414320.81	28414320.93	0.0090	0.0084
Earth	73083-09-01 09:36 G	28414320.88	28414320.90	28414320.98	0.0090	0.0088 *
Earth	73084-09-02 20:53 G	28414688.21	28414688.37	28414688.58	0.0090	0.0061
Moon	73084-09-03 00:15 G	28414688.35	28414688.51	28414688.69	0.0090	0.0065 *
Moon	73085-09-05 05:03 G	28415055.47	28415055.71	28415055.96	0.0090	0.0029
Earth	73085-09-05 08:39 G	28415055.63	28415055.86	28415056.10	0.0090	0.0033 *
Earth	73086-09-07 19:41 G	28415423.07	28415423.32	28415423.58	0.0090	0.0006

Moon	73086-09-07 23:03 G	28415423.22	28415423.46	28415423.72	0.0090	0.0011	*
Moon	73087-09-10 03:51 G	28415790.43	28415790.66	28415790.90	0.0090	0.0027	
Earth	73087-09-10 06:58 G	28415790.55	28415790.79	28415791.04	0.0090	0.0022	*
Mercury	73087-12-31 05:46 G	28415902.69	28415902.74	28415902.80	0.0090	0.0083	
Mercury	73088-03-28 07:55 G	28415990.75	28415990.83	28415990.93	0.0090	0.0074	
Mercury	73088-06-24 10:19 G	28416078.82	28416078.93	28416079.04	0.0090	0.0065	
Earth	73088-09-11 17:46 G	28416158.05	28416158.24	28416158.47	0.0090	0.0050	
Moon	73088-09-11 20:10 G	28416158.12	28416158.34	28416158.57	0.0090	0.0045	*
Mercury	73088-09-20 12:29 G	28416166.90	28416167.02	28416167.14	0.0090	0.0056	
Mercury	73088-12-17 14:24 G	28416254.98	28416255.10	28416255.24	0.0090	0.0047	
Mercury	73089-03-15 16:34 G	28416343.06	28416343.19	28416343.34	0.0090	0.0038	
Mercury	73089-06-11 18:43 G	28416431.14	28416431.28	28416431.43	0.0090	0.0030	
Mercury	73089-09-07 20:53 G	28416519.22	28416519.37	28416519.53	0.0090	0.0021	
Moon	73089-09-14 03:36 G	28416525.57	28416525.65	28416525.78	0.0090	0.0082	
Earth	73089-09-14 05:03 G	28416525.60	28416525.71	28416525.86	0.0090	0.0077	*
Mercury	73089-12-04 23:03 G	28416607.31	28416607.46	28416607.62	0.0090	0.0012	
Mercury	73090-03-03 01:12 G	28416695.39	28416695.55	28416695.70	0.0090	0.0003	
Mercury	73090-05-30 03:22 G	28416783.48	28416783.64	28416783.79	0.0090	0.0006	
Mercury	73090-08-26 05:17 G	28416871.57	28416871.72	28416871.88	0.0090	0.0014	
Mercury	73090-11-22 07:27 G	28416959.66	28416959.81	28416959.96	0.0090	0.0023	
Mercury	73091-02-18 09:22 G	28417047.75	28417047.89	28417048.04	0.0090	0.0032	
Mercury	73091-05-17 11:17 G	28417135.84	28417135.97	28417136.12	0.0090	0.0041	
Mercury	73091-08-13 13:27 G	28417223.94	28417224.06	28417224.19	0.0090	0.0049	
Mercury	73091-11-09 15:22 G	28417312.03	28417312.14	28417312.27	0.0090	0.0057	
Mercury	73092-02-05 17:31 G	28417400.13	28417400.23	28417400.34	0.0089	0.0066	
Mercury	73092-05-03 19:12 G	28417488.23	28417488.30	28417488.40	0.0089	0.0075	
Mercury	73092-07-30 21:22 G	28417576.34	28417576.39	28417576.46	0.0089	0.0083	
Mars	73117-03-29 23:17 G	28426583.26	28426583.47	28426583.73	0.0089	0.0064	
Venus	73146-01-09 22:34 G	28437096.39	28437096.44	28437096.54	0.0088	0.0083	
Venus	73146-08-23 11:46 G	28437321.90	28437321.99	28437322.11	0.0088	0.0076	

Venus	73147-04-06 00:43 G	28437547.41	28437547.53	28437547.68	0.0088	0.0070
Venus	73147-11-17 13:41 G	28437772.94	28437773.07	28437773.25	0.0088	0.0064
Venus	73148-06-30 02:53 G	28437998.47	28437998.62	28437998.80	0.0088	0.0057
Venus	73149-02-10 15:36 G	28438223.99	28438224.15	28438224.35	0.0088	0.0051
Venus	73149-09-24 04:48 G	28438449.52	28438449.70	28438449.90	0.0088	0.0044
Venus	73150-05-07 17:46 G	28438675.05	28438675.24	28438675.45	0.0088	0.0038
Venus	73150-12-19 06:58 G	28438900.59	28438900.79	28438901.00	0.0088	0.0031
Venus	73151-08-01 19:41 G	28439126.12	28439126.32	28439126.55	0.0088	0.0025
Venus	73152-03-14 08:53 G	28439351.65	28439351.87	28439352.09	0.0088	0.0018
Venus	73152-10-25 21:51 G	28439577.19	28439577.41	28439577.63	0.0088	0.0011
Venus	73153-06-08 10:48 G	28439802.73	28439802.95	28439803.17	0.0088	0.0005
Venus	73154-01-19 23:46 G	28440028.27	28440028.49	28440028.71	0.0088	0.0002
Venus	73154-09-02 12:29 G	28440253.81	28440254.02	28440254.25	0.0088	0.0009
Venus	73155-04-16 01:41 G	28440479.35	28440479.57	28440479.79	0.0088	0.0015
Venus	73155-11-27 14:39 G	28440704.90	28440705.11	28440705.33	0.0088	0.0021
Venus	73156-07-10 03:36 G	28440930.45	28440930.65	28440930.87	0.0088	0.0028
Venus	73157-02-20 16:19 G	28441155.99	28441156.18	28441156.40	0.0088	0.0035
Venus	73157-10-04 05:17 G	28441381.54	28441381.72	28441381.93	0.0088	0.0041
Venus	73158-05-17 18:00 G	28441607.08	28441607.25	28441607.46	0.0088	0.0048
Venus	73158-12-29 07:12 G	28441832.64	28441832.80	28441832.99	0.0088	0.0054
Venus	73159-08-11 20:24 G	28442058.19	28442058.35	28442058.51	0.0088	0.0060
Venus	73160-03-24 08:53 G	28442283.74	28442283.87	28442284.03	0.0088	0.0067
Venus	73160-11-04 21:51 G	28442509.30	28442509.41	28442509.55	0.0088	0.0073
Venus	73161-06-18 10:48 G	28442734.87	28442734.95	28442735.05	0.0088	0.0079
Venus	73162-01-29 23:17 G	28442960.45	28442960.47	28442960.54	0.0088	0.0086
Moon	73166-03-04 11:31 G	28444454.98	28444454.98	28444455.02	0.0088	0.0087
Moon	73167-03-06 16:48 G	28444822.03	28444822.20	28444822.39	0.0088	0.0063
Earth	73167-03-06 19:55 G	28444822.17	28444822.33	28444822.54	0.0088	0.0062 *
Earth	73168-03-08 08:24 G	28445189.62	28445189.85	28445190.10	0.0088	0.0035
Moon	73168-03-08 12:15 G	28445189.78	28445190.01	28445190.26	0.0088	0.0033 *

Moon	73169-03-10 18:00 G	28445557.00	28445557.25	28445557.51	0.0088	0.0010
Earth	73169-03-10 20:53 G	28445557.11	28445557.37	28445557.63	0.0088	0.0008 *
Earth	73170-03-13 09:07 G	28445924.62	28445924.88	28445925.13	0.0088	0.0018
Moon	73170-03-13 11:03 G	28445924.72	28445924.96	28445925.24	0.0088	0.0021 *
Mercury	73170-09-13 04:05 G	28446108.63	28446108.67	28446108.73	0.0088	0.0083
Mercury	73170-12-10 06:00 G	28446196.68	28446196.75	28446196.85	0.0088	0.0075
Mercury	73171-03-08 08:10 G	28446284.75	28446284.84	28446284.95	0.0088	0.0067
Moon	73171-03-15 19:27 G	28446292.11	28446292.31	28446292.55	0.0088	0.0043
Earth	73171-03-15 20:53 G	28446292.16	28446292.37	28446292.61	0.0088	0.0045 *
Mercury	73171-06-04 10:34 G	28446372.82	28446372.94	28446373.06	0.0088	0.0058
Mercury	73171-08-31 12:29 G	28446460.90	28446461.02	28446461.16	0.0088	0.0050
Mercury	73171-11-27 14:39 G	28446548.98	28446549.11	28446549.26	0.0088	0.0042
Mercury	73172-02-23 17:03 G	28446637.06	28446637.21	28446637.35	0.0088	0.0033
Moon	73172-03-17 08:10 G	28446659.71	28446659.84	28446660.01	0.0088	0.0073
Earth	73172-03-17 09:07 G	28446659.73	28446659.88	28446660.03	0.0088	0.0071 *
Mercury	73172-05-21 18:58 G	28446725.14	28446725.29	28446725.45	0.0088	0.0025
Mercury	73172-08-17 21:07 G	28446813.23	28446813.38	28446813.54	0.0088	0.0017
Mercury	73172-11-13 23:17 G	28446901.32	28446901.47	28446901.63	0.0088	0.0008
Mercury	73173-02-10 01:27 G	28446989.40	28446989.56	28446989.73	0.0088	0.0003
Mercury	73173-05-09 03:51 G	28447077.50	28447077.66	28447077.82	0.0088	0.0009
Mercury	73173-08-05 05:46 G	28447165.59	28447165.74	28447165.91	0.0088	0.0018
Mercury	73173-11-01 08:10 G	28447253.69	28447253.84	28447253.99	0.0088	0.0026
Mercury	73174-01-28 10:05 G	28447341.78	28447341.92	28447342.08	0.0088	0.0035
Mercury	73174-04-26 12:15 G	28447429.88	28447430.01	28447430.16	0.0088	0.0044
Mercury	73174-07-23 14:39 G	28447517.99	28447518.11	28447518.25	0.0088	0.0052
Mercury	73174-10-19 16:48 G	28447606.09	28447606.20	28447606.33	0.0088	0.0061
Mercury	73175-01-15 18:58 G	28447694.21	28447694.29	28447694.40	0.0088	0.0070
Mercury	73175-04-13 21:36 G	28447782.33	28447782.40	28447782.47	0.0088	0.0078
Mercury	73175-07-10 23:31 G	28447870.48	28447870.48	28447870.51	0.0088	0.0087
Mars	73199-01-04 07:55 G	28456448.65	28456448.83	28456449.06	0.0089	0.0063

Mars	73200-11-28 00:15 G	28457142.39	28457142.51	28457142.67	0.0089	0.0077
Jupiter	73220-10-26 23:46 G	28464415.37	28464415.49	28464415.73	0.0089	0.0085
Venus	73228-02-25 04:19 G	28467092.67	28467092.68	28467092.72	0.0090	0.0089
Venus	73228-10-07 17:03 G	28467318.15	28467318.21	28467318.32	0.0090	0.0083
Venus	73229-05-21 06:29 G	28467543.67	28467543.77	28467543.90	0.0090	0.0076
Venus	73230-01-01 19:12 G	28467769.19	28467769.30	28467769.46	0.0090	0.0070
Venus	73230-08-15 08:24 G	28467994.71	28467994.85	28467995.02	0.0090	0.0063
Venus	73231-03-28 21:36 G	28468220.24	28468220.40	28468220.58	0.0090	0.0056
Venus	73231-11-09 10:48 G	28468445.77	28468445.95	28468446.14	0.0090	0.0049
Venus	73232-06-21 23:46 G	28468671.31	28468671.49	28468671.69	0.0090	0.0042
Venus	73233-02-02 12:43 G	28468896.85	28468897.03	28468897.25	0.0090	0.0036
Venus	73233-09-16 01:55 G	28469122.39	28469122.58	28469122.80	0.0090	0.0029
Venus	73234-04-29 15:22 G	28469347.93	28469348.14	28469348.36	0.0090	0.0022
Venus	73234-12-11 04:34 G	28469573.48	28469573.69	28469573.91	0.0090	0.0015
Venus	73235-07-24 17:46 G	28469799.02	28469799.24	28469799.45	0.0090	0.0008
Venus	73236-03-06 06:43 G	28470024.56	28470024.78	28470025.00	0.0090	0.0001
Venus	73236-10-17 19:55 G	28470250.11	28470250.33	28470250.54	0.0090	0.0006
Venus	73237-05-31 08:53 G	28470475.66	28470475.87	28470476.09	0.0090	0.0013
Venus	73238-01-11 22:05 G	28470701.21	28470701.42	28470701.64	0.0090	0.0020
Venus	73238-08-25 11:03 G	28470926.76	28470926.96	28470927.17	0.0090	0.0027
Venus	73239-04-08 00:00 G	28471152.31	28471152.50	28471152.71	0.0090	0.0034
Venus	73239-11-19 12:58 G	28471377.86	28471378.04	28471378.25	0.0090	0.0041
Venus	73240-07-02 02:24 G	28471603.42	28471603.60	28471603.79	0.0090	0.0047
Venus	73241-02-12 15:22 G	28471828.98	28471829.14	28471829.32	0.0090	0.0054
Venus	73241-09-26 04:19 G	28472054.54	28472054.68	28472054.86	0.0090	0.0061
Venus	73242-05-09 17:31 G	28472280.10	28472280.23	28472280.39	0.0090	0.0068
Venus	73242-12-21 06:58 G	28472505.67	28472505.79	28472505.92	0.0090	0.0074
Venus	73243-08-03 19:55 G	28472731.25	28472731.33	28472731.44	0.0090	0.0081
Venus	73244-03-16 08:53 G	28472956.84	28472956.87	28472956.94	0.0090	0.0088
Moon	73248-09-03 04:34 G	28474588.56	28474588.69	28474588.85	0.0090	0.0074



Earth	73248-09-03 08:39 G	28474588.71	28474588.86	28474589.01	0.0090	0.0071	*
Earth	73249-09-05 19:27 G	28474956.10	28474956.31	28474956.54	0.0090	0.0044	
Moon	73249-09-05 23:03 G	28474956.23	28474956.46	28474956.69	0.0090	0.0041	*
Moon	73250-09-08 04:05 G	28475323.43	28475323.67	28475323.92	0.0090	0.0019	
Earth	73250-09-08 06:43 G	28475323.54	28475323.78	28475324.04	0.0090	0.0017	*
Earth	73251-09-10 18:00 G	28475691.00	28475691.25	28475691.51	0.0090	0.0011	
Moon	73251-09-10 20:10 G	28475691.09	28475691.34	28475691.60	0.0090	0.0013	*
Mercury	73252-07-01 02:53 G	28475985.59	28475985.62	28475985.68	0.0090	0.0086	
Moon	73252-09-12 04:48 G	28476058.48	28476058.70	28476058.93	0.0090	0.0036	
Earth	73252-09-12 04:48 G	28476058.49	28476058.70	28476058.95	0.0090	0.0039	*
Mercury	73252-09-27 05:17 G	28476073.65	28476073.72	28476073.81	0.0090	0.0077	
Mercury	73252-12-24 07:27 G	28476161.72	28476161.81	28476161.92	0.0090	0.0068	
Mercury	73253-03-22 09:36 G	28476249.79	28476249.90	28476250.03	0.0090	0.0059	
Mercury	73253-06-18 11:46 G	28476337.87	28476337.99	28476338.13	0.0090	0.0050	
Mercury	73253-09-14 14:10 G	28476425.95	28476426.09	28476426.23	0.0090	0.0041	
Moon	73253-09-14 15:22 G	28476425.99	28476426.14	28476426.34	0.0090	0.0068	*
Earth	73253-09-14 15:51 G	28476426.01	28476426.16	28476426.36	0.0090	0.0066	*
Mercury	73253-12-11 16:19 G	28476514.03	28476514.18	28476514.32	0.0090	0.0032	
Mercury	73254-03-09 18:15 G	28476602.12	28476602.26	28476602.42	0.0090	0.0024	
Mercury	73254-06-05 20:24 G	28476690.20	28476690.35	28476690.51	0.0090	0.0015	
Mercury	73254-09-01 22:34 G	28476778.29	28476778.44	28476778.60	0.0090	0.0006	
Mercury	73254-11-29 00:43 G	28476866.38	28476866.53	28476866.69	0.0090	0.0003	
Mercury	73255-02-25 02:53 G	28476954.46	28476954.62	28476954.77	0.0090	0.0012	
Mercury	73255-05-24 04:48 G	28477042.55	28477042.70	28477042.85	0.0090	0.0020	
Mercury	73255-08-20 06:58 G	28477130.64	28477130.79	28477130.94	0.0090	0.0029	
Mercury	73255-11-16 08:53 G	28477218.74	28477218.87	28477219.02	0.0090	0.0038	
Mercury	73256-02-12 10:48 G	28477306.83	28477306.95	28477307.09	0.0090	0.0047	
Mercury	73256-05-10 12:58 G	28477394.93	28477395.04	28477395.17	0.0090	0.0055	
Mercury	73256-08-06 14:53 G	28477483.02	28477483.12	28477483.24	0.0090	0.0063	
Mercury	73256-11-02 17:03 G	28477571.13	28477571.21	28477571.30	0.0090	0.0072	

Mercury	73257-01-29 19:12 G	28477659.23	28477659.30	28477659.37	0.0089	0.0080
Mercury	73257-04-27 20:53 G	28477747.36	28477747.37	28477747.40	0.0089	0.0089
Mars	73280-11-10 13:27 G	28486344.72	28486345.06	28486345.40	0.0089	0.0004
Venus	73310-04-14 10:05 G	28497090.87	28497090.92	28497091.01	0.0088	0.0083
Venus	73310-11-25 23:17 G	28497316.38	28497316.47	28497316.59	0.0088	0.0077
Venus	73311-07-09 12:43 G	28497541.90	28497542.03	28497542.16	0.0088	0.0070
Venus	73312-02-20 01:27 G	28497767.42	28497767.56	28497767.72	0.0088	0.0064
Venus	73312-10-02 14:10 G	28497992.95	28497993.09	28497993.28	0.0088	0.0058
Venus	73313-05-16 03:22 G	28498218.48	28498218.64	28498218.84	0.0088	0.0051
Venus	73313-12-27 16:48 G	28498444.01	28498444.20	28498444.39	0.0088	0.0044
Venus	73314-08-10 05:17 G	28498669.54	28498669.72	28498669.94	0.0088	0.0038
Venus	73315-03-23 18:29 G	28498895.07	28498895.27	28498895.48	0.0088	0.0031
Venus	73315-11-04 07:27 G	28499120.61	28499120.81	28499121.03	0.0088	0.0025
Venus	73316-06-16 20:24 G	28499346.14	28499346.35	28499346.58	0.0088	0.0018
Venus	73317-01-28 09:22 G	28499571.67	28499571.89	28499572.11	0.0088	0.0011
Venus	73317-09-10 22:19 G	28499797.21	28499797.43	28499797.65	0.0088	0.0005
Venus	73318-04-24 11:17 G	28500022.75	28500022.97	28500023.19	0.0088	0.0002
Venus	73318-12-06 00:15 G	28500248.29	28500248.51	28500248.73	0.0088	0.0008
Venus	73319-07-19 13:12 G	28500473.83	28500474.05	28500474.27	0.0088	0.0015
Venus	73320-03-01 01:55 G	28500699.37	28500699.58	28500699.80	0.0088	0.0022
Venus	73320-10-12 14:53 G	28500924.92	28500925.12	28500925.34	0.0088	0.0028
Venus	73321-05-26 03:36 G	28501150.46	28501150.65	28501150.87	0.0088	0.0035
Venus	73322-01-06 17:03 G	28501376.01	28501376.21	28501376.40	0.0088	0.0041
Venus	73322-08-20 05:31 G	28501601.56	28501601.73	28501601.93	0.0088	0.0048
Venus	73323-04-02 18:43 G	28501827.11	28501827.28	28501827.46	0.0088	0.0054
Venus	73323-11-14 07:27 G	28502052.67	28502052.81	28502052.99	0.0088	0.0061
Venus	73324-06-26 20:24 G	28502278.22	28502278.35	28502278.51	0.0088	0.0067
Venus	73325-02-07 09:07 G	28502503.78	28502503.88	28502504.02	0.0088	0.0074
Venus	73325-09-20 22:05 G	28502729.35	28502729.42	28502729.53	0.0088	0.0080
Venus	73326-05-04 11:03 G	28502954.93	28502954.96	28502955.01	0.0088	0.0086

Earth	73331-03-07 05:46 G	28504722.61	28504722.74	28504722.91	0.0088	0.0072
Moon	73331-03-07 09:22 G	28504722.77	28504722.89	28504723.03	0.0088	0.0076 *
Moon	73332-03-08 15:07 G	28505089.92	28505090.13	28505090.37	0.0088	0.0041
Earth	73332-03-08 17:46 G	28505090.04	28505090.24	28505090.49	0.0088	0.0046 *
Earth	73333-03-11 06:15 G	28505457.51	28505457.76	28505458.02	0.0088	0.0019
Moon	73333-03-11 07:41 G	28505457.57	28505457.82	28505458.09	0.0088	0.0024 *
Moon	73334-03-13 18:00 G	28505825.00	28505825.25	28505825.50	0.0088	0.0012
Earth	73334-03-13 18:29 G	28505825.01	28505825.27	28505825.54	0.0088	0.0008 *
Mercury	73335-03-15 01:27 G	28506191.53	28506191.56	28506191.61	0.0088	0.0085
Moon	73335-03-16 06:00 G	28506192.50	28506192.75	28506193.01	0.0088	0.0030
Earth	73335-03-16 06:43 G	28506192.54	28506192.78	28506193.02	0.0088	0.0034 *
Mercury	73335-06-11 03:36 G	28506279.58	28506279.65	28506279.73	0.0088	0.0077
Mercury	73335-09-07 05:31 G	28506367.65	28506367.73	28506367.84	0.0088	0.0069
Mercury	73335-12-04 07:41 G	28506455.72	28506455.82	28506455.94	0.0088	0.0061
Mercury	73336-03-01 10:05 G	28506543.79	28506543.92	28506544.04	0.0088	0.0052
Earth	73336-03-17 18:15 G	28506560.10	28506560.26	28506560.47	0.0088	0.0061
Moon	73336-03-17 20:10 G	28506560.20	28506560.34	28506560.54	0.0088	0.0066 *
Mercury	73336-05-28 12:00 G	28506631.87	28506632.00	28506632.14	0.0088	0.0044
Mercury	73336-08-24 14:10 G	28506719.95	28506720.09	28506720.24	0.0088	0.0036
Mercury	73336-11-20 16:19 G	28506808.03	28506808.18	28506808.33	0.0088	0.0027
Mercury	73337-02-16 18:29 G	28506896.12	28506896.27	28506896.43	0.0088	0.0019
Moon	73337-03-20 03:36 G	28506927.60	28506927.65	28506927.77	0.0088	0.0083
Earth	73337-03-20 06:43 G	28506927.77	28506927.78	28506927.83	0.0088	0.0087 *
Mercury	73337-05-15 20:39 G	28506984.20	28506984.36	28506984.52	0.0088	0.0010
Mercury	73337-08-11 22:48 G	28507072.29	28507072.45	28507072.61	0.0088	0.0002
Mercury	73337-11-08 00:58 G	28507160.38	28507160.54	28507160.70	0.0088	0.0007
Mercury	73338-02-04 03:07 G	28507248.48	28507248.63	28507248.79	0.0088	0.0015
Mercury	73338-05-03 05:17 G	28507336.57	28507336.72	28507336.88	0.0088	0.0024
Mercury	73338-07-30 07:27 G	28507424.67	28507424.81	28507424.97	0.0088	0.0033
Mercury	73338-10-26 09:36 G	28507512.77	28507512.90	28507513.05	0.0088	0.0041

Mercury	73339-01-22 11:46 G	28507600.87	28507600.99	28507601.13	0.0088	0.0050
Mercury	73339-04-20 13:55 G	28507688.97	28507689.08	28507689.21	0.0088	0.0059
Mercury	73339-07-17 16:19 G	28507777.08	28507777.18	28507777.29	0.0088	0.0067
Mercury	73339-10-13 18:29 G	28507865.20	28507865.27	28507865.36	0.0088	0.0076
Mercury	73340-01-09 20:39 G	28507953.34	28507953.36	28507953.42	0.0088	0.0085
Mars	73364-07-14 16:34 G	28516905.92	28516906.19	28516906.48	0.0089	0.0021
Jupiter	73387-01-01 18:15 G	28525111.79	28525112.26	28525112.81	0.0089	0.0031
Venus	73392-05-29 16:19 G	28527087.18	28527087.18	28527087.19	0.0090	0.0090
Venus	73393-01-10 05:17 G	28527312.65	28527312.72	28527312.81	0.0090	0.0083
Venus	73393-08-23 18:00 G	28527538.15	28527538.25	28527538.38	0.0090	0.0077
Venus	73394-04-06 07:12 G	28527763.67	28527763.80	28527763.94	0.0090	0.0070
Venus	73394-11-17 20:24 G	28527989.20	28527989.35	28527989.51	0.0090	0.0063
Venus	73395-07-01 08:53 G	28528214.73	28528214.87	28528215.06	0.0090	0.0057
Venus	73396-02-11 22:05 G	28528440.25	28528440.42	28528440.62	0.0090	0.0050
Venus	73396-09-24 11:17 G	28528665.79	28528665.97	28528666.17	0.0090	0.0043
Venus	73397-05-08 00:29 G	28528891.33	28528891.52	28528891.73	0.0090	0.0036
Venus	73397-12-19 13:41 G	28529116.87	28529117.07	28529117.28	0.0090	0.0029
Venus	73398-08-02 02:39 G	28529342.40	28529342.61	28529342.83	0.0090	0.0022
Venus	73399-03-15 15:51 G	28529567.94	28529568.16	28529568.37	0.0090	0.0015
Venus	73399-10-27 04:48 G	28529793.49	28529793.70	28529793.92	0.0090	0.0009
Venus	73400-06-09 18:15 G	28530019.04	28530019.26	28530019.48	0.0090	0.0001
Venus	73401-01-21 07:12 G	28530244.59	28530244.80	28530245.02	0.0090	0.0006
Venus	73401-09-03 20:24 G	28530470.13	28530470.35	28530470.57	0.0090	0.0013
Venus	73402-04-17 09:22 G	28530695.68	28530695.89	28530696.11	0.0090	0.0020
Venus	73402-11-28 22:34 G	28530921.24	28530921.44	28530921.65	0.0090	0.0027
Venus	73403-07-12 11:31 G	28531146.79	28531146.98	28531147.20	0.0090	0.0034
Venus	73404-02-23 00:29 G	28531372.34	28531372.52	28531372.73	0.0090	0.0041
Venus	73404-10-05 13:27 G	28531597.90	28531598.06	28531598.27	0.0090	0.0048
Venus	73405-05-19 03:07 G	28531823.46	28531823.63	28531823.81	0.0090	0.0054
Venus	73405-12-30 16:05 G	28532049.02	28532049.17	28532049.34	0.0090	0.0061

Venus	73406-08-13 05:03 G	28532274.58	28532274.71	28532274.87	0.0090	0.0068
Venus	73407-03-26 18:00 G	28532500.15	28532500.25	28532500.39	0.0090	0.0075
Venus	73407-11-07 07:27 G	28532725.73	28532725.81	28532725.91	0.0090	0.0081
Venus	73408-06-19 20:24 G	28532951.33	28532951.35	28532951.41	0.0090	0.0088
Earth	73412-09-04 19:12 G	28534489.22	28534489.30	28534489.42	0.0090	0.0082
Moon	73412-09-04 22:34 G	28534489.34	28534489.44	28534489.59	0.0090	0.0078 *
Moon	73413-09-07 04:19 G	28534856.51	28534856.68	28534856.89	0.0090	0.0059
Earth	73413-09-07 06:43 G	28534856.60	28534856.78	28534857.00	0.0090	0.0055 *
Earth	73414-09-09 18:00 G	28535224.02	28535224.25	28535224.51	0.0090	0.0028
Moon	73414-09-09 19:27 G	28535224.07	28535224.31	28535224.58	0.0090	0.0024 *
Moon	73415-09-12 05:17 G	28535591.47	28535591.72	28535591.96	0.0090	0.0004
Earth	73415-09-12 05:46 G	28535591.48	28535591.74	28535591.99	0.0090	0.0001 *
Moon	73416-09-13 15:07 G	28535958.90	28535959.13	28535959.39	0.0090	0.0032
Earth	73416-09-13 16:34 G	28535958.96	28535959.19	28535959.44	0.0090	0.0028 *
Mercury	73417-01-01 00:43 G	28536068.50	28536068.53	28536068.56	0.0090	0.0088
Mercury	73417-03-30 02:53 G	28536156.55	28536156.62	28536156.70	0.0090	0.0079
Mercury	73417-06-26 05:03 G	28536244.62	28536244.71	28536244.81	0.0090	0.0070
Earth	73417-09-16 03:36 G	28536326.47	28536326.65	28536326.87	0.0090	0.0055
Moon	73417-09-16 05:31 G	28536326.55	28536326.73	28536326.96	0.0090	0.0052 *
Mercury	73417-09-22 07:12 G	28536332.69	28536332.80	28536332.92	0.0090	0.0061
Mercury	73417-12-19 09:07 G	28536420.77	28536420.88	28536421.02	0.0090	0.0053
Mercury	73418-03-17 11:17 G	28536508.85	28536508.97	28536509.12	0.0090	0.0044
Mercury	73418-06-13 13:41 G	28536596.93	28536597.07	28536597.22	0.0090	0.0034
Mercury	73418-09-09 15:51 G	28536685.01	28536685.16	28536685.31	0.0090	0.0026
Moon	73418-09-18 12:00 G	28536693.94	28536694.00	28536694.08	0.0090	0.0086
Earth	73418-09-18 14:53 G	28536694.03	28536694.12	28536694.24	0.0090	0.0082 *
Mercury	73418-12-06 18:00 G	28536773.10	28536773.25	28536773.41	0.0090	0.0017
Mercury	73419-03-04 20:10 G	28536861.19	28536861.34	28536861.50	0.0090	0.0008
Mercury	73419-05-31 22:19 G	28536949.27	28536949.43	28536949.58	0.0090	0.0001
Mercury	73419-08-28 00:29 G	28537037.36	28537037.52	28537037.67	0.0090	0.0010

Mercury	73419-11-24 02:24 G	28537125.45	28537125.60	28537125.75	0.0090	0.0018
Mercury	73420-02-20 04:34 G	28537213.54	28537213.69	28537213.84	0.0090	0.0027
Mercury	73420-05-18 06:29 G	28537301.63	28537301.77	28537301.92	0.0090	0.0036
Mercury	73420-08-14 08:39 G	28537389.73	28537389.86	28537390.00	0.0090	0.0044
Mercury	73420-11-10 10:34 G	28537477.82	28537477.94	28537478.07	0.0090	0.0053
Mercury	73421-02-06 12:43 G	28537565.92	28537566.03	28537566.14	0.0090	0.0061
Mercury	73421-05-05 14:39 G	28537654.02	28537654.11	28537654.21	0.0090	0.0070
Mercury	73421-08-01 16:48 G	28537742.13	28537742.20	28537742.27	0.0090	0.0078
Mercury	73421-10-28 18:29 G	28537830.25	28537830.27	28537830.32	0.0090	0.0087
Mars	73444-06-26 02:39 G	28546106.42	28546106.61	28546106.84	0.0089	0.0070
Venus	73474-07-17 21:07 G	28557085.34	28557085.38	28557085.47	0.0088	0.0084
Venus	73475-02-28 10:34 G	28557310.84	28557310.94	28557311.05	0.0088	0.0077
Venus	73475-10-11 23:31 G	28557536.36	28557536.48	28557536.62	0.0088	0.0071
Venus	73476-05-24 12:15 G	28557761.89	28557762.01	28557762.19	0.0088	0.0065
Venus	73477-01-05 01:41 G	28557987.42	28557987.57	28557987.75	0.0088	0.0058
Venus	73477-08-18 14:53 G	28558212.94	28558213.12	28558213.30	0.0088	0.0051
Venus	73478-04-01 03:36 G	28558438.48	28558438.65	28558438.86	0.0088	0.0045
Venus	73478-11-12 17:03 G	28558664.02	28558664.21	28558664.42	0.0088	0.0038
Venus	73479-06-26 05:46 G	28558889.55	28558889.74	28558889.96	0.0088	0.0032
Venus	73480-02-06 18:58 G	28559115.08	28559115.29	28559115.51	0.0088	0.0025
Venus	73480-09-19 07:41 G	28559340.62	28559340.82	28559341.05	0.0088	0.0019
Venus	73481-05-02 20:53 G	28559566.15	28559566.37	28559566.59	0.0088	0.0012
Venus	73481-12-14 10:05 G	28559791.70	28559791.92	28559792.14	0.0088	0.0005
Venus	73482-07-27 23:03 G	28560017.23	28560017.46	28560017.68	0.0088	0.0002
Venus	73483-03-10 11:46 G	28560242.77	28560242.99	28560243.22	0.0088	0.0008
Venus	73483-10-22 00:43 G	28560468.31	28560468.53	28560468.75	0.0088	0.0015
Venus	73484-06-03 13:27 G	28560693.86	28560694.06	28560694.29	0.0088	0.0022
Venus	73485-01-15 02:24 G	28560919.40	28560919.60	28560919.82	0.0088	0.0029
Venus	73485-08-28 15:22 G	28561144.94	28561145.14	28561145.35	0.0088	0.0035
Venus	73486-04-11 04:05 G	28561370.49	28561370.67	28561370.88	0.0088	0.0042

Venus	73486-11-22 17:17 G	28561596.05	28561596.22	28561596.42	0.0088	0.0048
Venus	73487-07-06 06:00 G	28561821.60	28561821.75	28561821.94	0.0088	0.0055
Venus	73488-02-16 19:12 G	28562047.15	28562047.30	28562047.46	0.0088	0.0061
Venus	73488-09-29 07:41 G	28562272.70	28562272.82	28562272.98	0.0088	0.0068
Venus	73489-05-12 20:53 G	28562498.26	28562498.37	28562498.50	0.0088	0.0074
Venus	73489-12-24 09:36 G	28562723.84	28562723.90	28562724.01	0.0088	0.0081
Venus	73490-08-06 22:34 G	28562949.43	28562949.44	28562949.50	0.0088	0.0087
Moon	73495-03-07 13:55 G	28564623.01	28564623.08	28564623.19	0.0088	0.0082
Earth	73495-03-07 15:51 G	28564623.09	28564623.16	28564623.28	0.0088	0.0082 *
Earth	73496-03-09 03:51 G	28564990.48	28564990.66	28564990.89	0.0088	0.0056
Moon	73496-03-09 06:00 G	28564990.54	28564990.75	28564990.96	0.0088	0.0056 *
Earth	73497-03-11 16:34 G	28565357.94	28565358.19	28565358.43	0.0088	0.0029
Moon	73497-03-11 16:34 G	28565357.95	28565358.19	28565358.43	0.0088	0.0029 *
Moon	73498-03-14 02:53 G	28565725.35	28565725.62	28565725.89	0.0088	0.0003
Earth	73498-03-14 04:19 G	28565725.42	28565725.68	28565725.94	0.0088	0.0003 *
Earth	73499-03-16 16:05 G	28566092.93	28566093.17	28566093.44	0.0088	0.0024
Moon	73499-03-16 18:15 G	28566093.03	28566093.26	28566093.51	0.0088	0.0025 *
Mercury	73499-09-13 23:03 G	28566274.45	28566274.46	28566274.48	0.0088	0.0087
Mercury	73499-12-11 00:58 G	28566362.48	28566362.54	28566362.61	0.0088	0.0079
Mercury	73500-03-09 03:07 G	28566450.54	28566450.63	28566450.73	0.0088	0.0071
Moon	73500-03-19 00:43 G	28566460.33	28566460.53	28566460.77	0.0088	0.0050
Earth	73500-03-19 04:19 G	28566460.48	28566460.68	28566460.91	0.0088	0.0050 *
Mercury	73500-06-05 05:03 G	28566538.61	28566538.71	28566538.83	0.0088	0.0063
Mercury	73500-09-01 07:12 G	28566626.69	28566626.80	28566626.93	0.0088	0.0055
Mercury	73500-11-28 09:22 G	28566714.76	28566714.89	28566715.03	0.0088	0.0046
Mercury	73501-02-24 11:31 G	28566802.84	28566802.98	28566803.13	0.0088	0.0038
Earth	73501-03-21 15:51 G	28566828.07	28566828.16	28566828.32	0.0088	0.0077
Moon	73501-03-21 19:55 G	28566828.22	28566828.33	28566828.46	0.0088	0.0077 *
Mercury	73501-05-23 13:27 G	28566890.92	28566891.06	28566891.22	0.0088	0.0030
Mercury	73501-08-19 15:51 G	28566979.01	28566979.16	28566979.31	0.0088	0.0021

Mercury	73501-11-15 18:00 G	28567067.09	28567067.25	28567067.41	0.0088	0.0013
Mercury	73502-02-11 20:10 G	28567155.18	28567155.34	28567155.50	0.0088	0.0004
Mercury	73502-05-10 22:19 G	28567243.27	28567243.43	28567243.59	0.0088	0.0004
Mercury	73502-08-07 00:29 G	28567331.36	28567331.52	28567331.68	0.0088	0.0013
Mercury	73502-11-03 02:39 G	28567419.45	28567419.61	28567419.77	0.0088	0.0021
Mercury	73503-01-30 04:34 G	28567507.55	28567507.69	28567507.85	0.0088	0.0030
Mercury	73503-04-28 06:43 G	28567595.65	28567595.78	28567595.94	0.0088	0.0039
Mercury	73503-07-25 09:07 G	28567683.75	28567683.88	28567684.02	0.0088	0.0047
Mercury	73503-10-21 11:17 G	28567771.85	28567771.97	28567772.10	0.0088	0.0056
Mercury	73504-01-17 13:12 G	28567859.96	28567860.05	28567860.18	0.0088	0.0065
Mercury	73504-04-14 15:51 G	28567948.07	28567948.16	28567948.25	0.0088	0.0073
Mercury	73504-07-11 18:00 G	28568036.20	28568036.25	28568036.31	0.0088	0.0082
Mars	73528-03-01 10:34 G	28576669.69	28576669.94	28576670.23	0.0089	0.0035
Jupiter	73553-03-10 11:03 G	28585809.46	28585809.96	28585810.51	0.0089	0.0024
Venus	73557-04-15 17:03 G	28587307.15	28587307.21	28587307.30	0.0090	0.0084
Venus	73557-11-27 06:15 G	28587532.66	28587532.76	28587532.88	0.0090	0.0077
Venus	73558-07-10 18:58 G	28587758.17	28587758.29	28587758.44	0.0090	0.0071
Venus	73559-02-21 07:55 G	28587983.69	28587983.83	28587984.00	0.0090	0.0064
Venus	73559-10-04 21:07 G	28588209.22	28588209.38	28588209.55	0.0090	0.0057
Venus	73560-05-17 10:19 G	28588434.75	28588434.93	28588435.11	0.0090	0.0050
Venus	73560-12-28 23:31 G	28588660.28	28588660.48	28588660.67	0.0090	0.0043
Venus	73561-08-11 12:00 G	28588885.82	28588886.00	28588886.22	0.0090	0.0037
Venus	73562-03-25 00:58 G	28589111.35	28589111.54	28589111.76	0.0090	0.0030
Venus	73562-11-05 14:10 G	28589336.89	28589337.09	28589337.31	0.0090	0.0023
Venus	73563-06-19 03:22 G	28589562.43	28589562.64	28589562.86	0.0090	0.0016
Venus	73564-01-30 16:34 G	28589787.98	28589788.19	28589788.41	0.0090	0.0008
Venus	73564-09-12 05:46 G	28590013.52	28590013.74	28590013.96	0.0090	0.0002
Venus	73565-04-25 18:58 G	28590239.07	28590239.29	28590239.50	0.0090	0.0006
Venus	73565-12-07 07:55 G	28590464.62	28590464.83	28590465.05	0.0090	0.0013
Venus	73566-07-20 21:07 G	28590690.17	28590690.38	28590690.59	0.0090	0.0020



Venus	73567-03-03 10:05 G	28590915.72	28590915.92	28590916.14	0.0090	0.0027
Venus	73567-10-14 23:03 G	28591141.27	28591141.46	28591141.68	0.0090	0.0034
Venus	73568-05-27 12:15 G	28591366.83	28591367.01	28591367.22	0.0090	0.0041
Venus	73569-01-08 01:27 G	28591592.39	28591592.56	28591592.76	0.0090	0.0048
Venus	73569-08-21 14:24 G	28591817.94	28591818.10	28591818.29	0.0090	0.0055
Venus	73570-04-04 03:51 G	28592043.50	28592043.66	28592043.82	0.0090	0.0061
Venus	73570-11-15 16:48 G	28592269.07	28592269.20	28592269.35	0.0090	0.0068
Venus	73571-06-29 05:46 G	28592494.64	28592494.74	28592494.88	0.0090	0.0075
Venus	73572-02-09 18:43 G	28592720.21	28592720.28	28592720.39	0.0090	0.0082
Venus	73572-09-22 07:41 G	28592945.81	28592945.82	28592945.88	0.0090	0.0089
Earth	73577-09-07 17:03 G	28594757.07	28594757.21	28594757.41	0.0090	0.0066
Moon	73577-09-07 18:15 G	28594757.11	28594757.26	28594757.45	0.0090	0.0069 *
Earth	73578-09-10 04:48 G	28595124.49	28595124.70	28595124.94	0.0090	0.0039
Moon	73578-09-10 05:31 G	28595124.51	28595124.73	28595124.96	0.0090	0.0035 *
Moon	73579-09-12 15:07 G	28595491.87	28595492.13	28595492.39	0.0090	0.0014
Earth	73579-09-12 16:19 G	28595491.93	28595492.18	28595492.44	0.0090	0.0011 *
Earth	73580-09-14 03:36 G	28595859.41	28595859.65	28595859.91	0.0090	0.0017
Moon	73580-09-14 06:15 G	28595859.52	28595859.76	28595860.01	0.0090	0.0020 *
Moon	73581-09-16 11:17 G	28596226.76	28596226.97	28596227.22	0.0090	0.0041
Earth	73581-09-16 14:53 G	28596226.91	28596227.12	28596227.35	0.0090	0.0044 *
Mercury	73581-09-29 00:00 G	28596239.45	28596239.50	28596239.57	0.0090	0.0082
Mercury	73581-12-26 02:10 G	28596327.51	28596327.59	28596327.69	0.0090	0.0073
Mercury	73582-03-24 04:19 G	28596415.58	28596415.68	28596415.80	0.0090	0.0064
Mercury	73582-06-20 06:43 G	28596503.66	28596503.78	28596503.91	0.0090	0.0055
Mercury	73582-09-16 08:53 G	28596591.74	28596591.87	28596592.01	0.0090	0.0046
Earth	73582-09-19 01:55 G	28596594.44	28596594.58	28596594.74	0.0090	0.0071
Moon	73582-09-19 05:03 G	28596594.59	28596594.71	28596594.88	0.0090	0.0074 *
Mercury	73582-12-13 11:03 G	28596679.82	28596679.96	28596680.11	0.0090	0.0037
Mercury	73583-03-11 13:27 G	28596767.91	28596768.06	28596768.20	0.0090	0.0028
Mercury	73583-06-07 15:22 G	28596855.99	28596856.14	28596856.30	0.0090	0.0019

Mercury	73583-09-03 17:31 G	28596944.08	28596944.23	28596944.39	0.0090	0.0011
Mercury	73583-11-30 19:41 G	28597032.17	28597032.32	28597032.48	0.0090	0.0002
Mercury	73584-02-26 21:51 G	28597120.26	28597120.41	28597120.57	0.0090	0.0007
Mercury	73584-05-25 00:00 G	28597208.35	28597208.50	28597208.65	0.0090	0.0016
Mercury	73584-08-21 01:55 G	28597296.44	28597296.58	28597296.74	0.0090	0.0025
Mercury	73584-11-17 03:51 G	28597384.53	28597384.66	28597384.82	0.0090	0.0034
Mercury	73585-02-13 06:00 G	28597472.62	28597472.75	28597472.90	0.0090	0.0042
Mercury	73585-05-12 07:55 G	28597560.72	28597560.83	28597560.97	0.0090	0.0051
Mercury	73585-08-08 10:19 G	28597648.82	28597648.93	28597649.05	0.0090	0.0059
Mercury	73585-11-04 12:00 G	28597736.92	28597737.00	28597737.12	0.0090	0.0068
Mercury	73586-01-31 14:10 G	28597825.02	28597825.09	28597825.18	0.0090	0.0076
Mercury	73586-04-29 16:05 G	28597913.14	28597913.17	28597913.23	0.0090	0.0084
Mars	73610-01-04 23:31 G	28606564.16	28606564.48	28606564.80	0.0089	0.0030
Venus	73638-10-20 08:53 G	28617079.82	28617079.87	28617079.94	0.0088	0.0084
Venus	73639-06-02 21:36 G	28617305.32	28617305.40	28617305.52	0.0088	0.0078
Venus	73640-01-14 10:34 G	28617530.83	28617530.94	28617531.09	0.0088	0.0072
Venus	73640-08-26 23:46 G	28617756.36	28617756.49	28617756.65	0.0088	0.0065
Venus	73641-04-09 13:12 G	28617981.88	28617982.05	28617982.21	0.0088	0.0058
Venus	73641-11-21 01:55 G	28618207.42	28618207.58	28618207.78	0.0088	0.0052
Venus	73642-07-04 15:07 G	28618432.95	28618433.13	28618433.33	0.0088	0.0045
Venus	73643-02-15 04:05 G	28618658.48	28618658.67	28618658.88	0.0088	0.0039
Venus	73643-09-28 17:03 G	28618884.02	28618884.21	28618884.43	0.0088	0.0032
Venus	73644-05-11 06:15 G	28619109.55	28619109.76	28619109.98	0.0088	0.0025
Venus	73644-12-22 19:12 G	28619335.09	28619335.30	28619335.53	0.0088	0.0019
Venus	73645-08-05 08:24 G	28619560.63	28619560.85	28619561.07	0.0088	0.0012
Venus	73646-03-18 21:22 G	28619786.17	28619786.39	28619786.61	0.0088	0.0005
Venus	73646-10-30 10:19 G	28620011.71	28620011.93	28620012.15	0.0088	0.0002
Venus	73647-06-12 23:17 G	28620237.25	28620237.47	28620237.69	0.0088	0.0008
Venus	73648-01-24 12:15 G	28620462.79	28620463.01	28620463.23	0.0088	0.0015
Venus	73648-09-06 00:58 G	28620688.33	28620688.54	28620688.76	0.0088	0.0022

Venus	73649-04-19 13:41 G	28620913.87	28620914.07	28620914.29	0.0088	0.0029
Venus	73649-12-01 02:53 G	28621139.42	28621139.62	28621139.83	0.0088	0.0035
Venus	73650-07-14 15:36 G	28621364.97	28621365.15	28621365.36	0.0088	0.0042
Venus	73651-02-25 04:48 G	28621590.51	28621590.70	28621590.88	0.0088	0.0048
Venus	73651-10-08 17:17 G	28621816.06	28621816.22	28621816.41	0.0088	0.0055
Venus	73652-05-21 06:00 G	28622041.62	28622041.75	28622041.93	0.0088	0.0062
Venus	73653-01-01 19:12 G	28622267.18	28622267.30	28622267.46	0.0088	0.0068
Venus	73653-08-15 07:55 G	28622492.74	28622492.83	28622492.97	0.0088	0.0075
Venus	73654-03-28 20:53 G	28622718.31	28622718.37	28622718.48	0.0088	0.0081
Venus	73654-11-09 10:19 G	28622943.91	28622943.93	28622943.96	0.0088	0.0087
Moon	73659-03-08 02:10 G	28624523.58	28624523.59	28624523.65	0.0088	0.0087
Earth	73660-03-09 13:41 G	28624890.93	28624891.07	28624891.28	0.0088	0.0066
Moon	73660-03-09 14:24 G	28624890.97	28624891.10	28624891.27	0.0088	0.0070 *
Moon	73661-03-12 00:00 G	28625258.28	28625258.50	28625258.77	0.0088	0.0035
Earth	73661-03-12 02:24 G	28625258.37	28625258.60	28625258.83	0.0088	0.0039 *
Earth	73662-03-14 14:24 G	28625625.84	28625626.10	28625626.36	0.0088	0.0013
Moon	73662-03-14 17:03 G	28625625.97	28625626.21	28625626.47	0.0088	0.0018 *
Moon	73663-03-16 23:17 G	28625993.21	28625993.47	28625993.73	0.0088	0.0018
Earth	73663-03-17 02:24 G	28625993.35	28625993.60	28625993.87	0.0088	0.0013 *
Earth	73664-03-18 14:10 G	28626360.87	28626361.09	28626361.34	0.0088	0.0040
Moon	73664-03-18 18:00 G	28626361.03	28626361.25	28626361.51	0.0088	0.0035 *
Mercury	73664-06-10 22:34 G	28626445.39	28626445.44	28626445.50	0.0088	0.0081
Mercury	73664-09-07 00:29 G	28626533.44	28626533.52	28626533.62	0.0088	0.0073
Mercury	73664-12-04 02:24 G	28626621.51	28626621.60	28626621.72	0.0088	0.0065
Mercury	73665-03-02 04:34 G	28626709.58	28626709.69	28626709.82	0.0088	0.0057
Moon	73665-03-20 22:48 G	28626728.33	28626728.45	28626728.63	0.0088	0.0071
Earth	73665-03-21 02:24 G	28626728.44	28626728.60	28626728.79	0.0088	0.0066 *
Mercury	73665-05-29 06:58 G	28626797.66	28626797.79	28626797.92	0.0088	0.0048
Mercury	73665-08-25 08:53 G	28626885.74	28626885.87	28626886.02	0.0088	0.0040
Mercury	73665-11-21 11:03 G	28626973.82	28626973.96	28626974.11	0.0088	0.0032

Mercury	73666-02-17 12:58 G	28627061.90	28627062.04	28627062.20	0.0088	0.0024
Moon	73666-03-23 17:31 G	28627096.23	28627096.23	28627096.25	0.0088	0.0088
Mercury	73666-05-16 15:22 G	28627149.98	28627150.14	28627150.30	0.0088	0.0015
Mercury	73666-08-12 17:31 G	28627238.07	28627238.23	28627238.39	0.0088	0.0007
Mercury	73666-11-08 19:41 G	28627326.16	28627326.32	28627326.48	0.0088	0.0002
Mercury	73667-02-04 21:36 G	28627414.25	28627414.40	28627414.57	0.0088	0.0011
Mercury	73667-05-03 23:46 G	28627502.34	28627502.49	28627502.65	0.0088	0.0019
Mercury	73667-07-31 01:55 G	28627590.44	28627590.58	28627590.74	0.0088	0.0028
Mercury	73667-10-27 04:05 G	28627678.53	28627678.67	28627678.83	0.0088	0.0036
Mercury	73668-01-23 06:15 G	28627766.63	28627766.76	28627766.91	0.0088	0.0045
Mercury	73668-04-20 08:39 G	28627854.73	28627854.86	28627854.99	0.0088	0.0053
Mercury	73668-07-17 10:48 G	28627942.84	28627942.95	28627943.07	0.0088	0.0062
Mercury	73668-10-13 12:43 G	28628030.95	28628031.03	28628031.14	0.0088	0.0071
Mercury	73669-01-09 15:22 G	28628119.07	28628119.14	28628119.21	0.0088	0.0079
Mars	73693-09-08 18:15 G	28637127.03	28637127.26	28637127.52	0.0089	0.0049
Jupiter	73719-05-13 21:22 G	28646504.16	28646504.39	28646504.67	0.0089	0.0079
Venus	73721-07-19 04:19 G	28647301.63	28647301.68	28647301.77	0.0090	0.0085
Venus	73722-03-01 17:31 G	28647527.14	28647527.23	28647527.35	0.0090	0.0078
Venus	73722-10-13 06:43 G	28647752.65	28647752.78	28647752.91	0.0090	0.0071
Venus	73723-05-26 19:27 G	28647978.18	28647978.31	28647978.48	0.0090	0.0065
Venus	73724-01-07 08:24 G	28648203.71	28648203.85	28648204.04	0.0090	0.0058
Venus	73724-08-19 21:36 G	28648429.23	28648429.40	28648429.59	0.0090	0.0051
Venus	73725-04-02 10:34 G	28648654.76	28648654.94	28648655.14	0.0090	0.0044
Venus	73725-11-13 23:46 G	28648880.30	28648880.49	28648880.69	0.0090	0.0037
Venus	73726-06-27 12:43 G	28649105.83	28649106.03	28649106.24	0.0090	0.0030
Venus	73727-02-08 01:55 G	28649331.37	28649331.58	28649331.79	0.0090	0.0023
Venus	73727-09-21 14:53 G	28649556.91	28649557.12	28649557.34	0.0090	0.0016
Venus	73728-05-04 04:05 G	28649782.45	28649782.67	28649782.89	0.0090	0.0009
Venus	73728-12-15 17:03 G	28650008.00	28650008.21	28650008.43	0.0090	0.0003
Venus	73729-07-29 06:15 G	28650233.54	28650233.76	28650233.98	0.0090	0.0005

Venus	73730-03-11 19:12 G	28650459.09	28650459.30	28650459.52	0.0090	0.0012
Venus	73730-10-23 08:10 G	28650684.64	28650684.84	28650685.06	0.0090	0.0020
Venus	73731-06-05 21:22 G	28650910.20	28650910.39	28650910.61	0.0090	0.0027
Venus	73732-01-17 10:34 G	28651135.75	28651135.94	28651136.15	0.0090	0.0034
Venus	73732-08-29 23:31 G	28651361.30	28651361.48	28651361.69	0.0090	0.0041
Venus	73733-04-12 12:43 G	28651586.86	28651587.03	28651587.23	0.0090	0.0048
Venus	73733-11-24 01:41 G	28651812.42	28651812.57	28651812.77	0.0090	0.0055
Venus	73734-07-07 14:53 G	28652037.99	28652038.12	28652038.30	0.0090	0.0062
Venus	73735-02-18 04:34 G	28652263.55	28652263.69	28652263.83	0.0090	0.0068
Venus	73735-10-01 17:31 G	28652489.12	28652489.23	28652489.35	0.0090	0.0075
Venus	73736-05-14 06:29 G	28652714.70	28652714.77	28652714.87	0.0090	0.0082
Venus	73736-12-25 19:27 G	28652940.31	28652940.31	28652940.36	0.0090	0.0089
Earth	73741-09-08 05:03 G	28654657.58	28654657.71	28654657.84	0.0090	0.0076
Moon	73741-09-08 05:46 G	28654657.60	28654657.74	28654657.88	0.0090	0.0073 *
Moon	73742-09-10 13:55 G	28655024.87	28655025.08	28655025.30	0.0090	0.0051
Earth	73742-09-10 16:05 G	28655024.97	28655025.17	28655025.39	0.0090	0.0049 *
Earth	73743-09-13 03:22 G	28655392.40	28655392.64	28655392.89	0.0090	0.0022
Moon	73743-09-13 06:00 G	28655392.51	28655392.75	28655393.00	0.0090	0.0019 *
Moon	73744-09-14 11:17 G	28655759.72	28655759.97	28655760.23	0.0090	0.0002
Earth	73744-09-14 14:53 G	28655759.87	28655760.12	28655760.38	0.0090	0.0006 *
Earth	73745-09-17 01:55 G	28656127.35	28656127.58	28656127.83	0.0090	0.0033
Moon	73745-09-17 05:31 G	28656127.50	28656127.73	28656127.97	0.0090	0.0036 *
Mercury	73746-03-30 21:07 G	28656322.35	28656322.38	28656322.45	0.0090	0.0085
Mercury	73746-06-26 23:31 G	28656410.41	28656410.48	28656410.57	0.0090	0.0076
Moon	73746-09-19 09:51 G	28656494.74	28656494.91	28656495.12	0.0090	0.0057
Earth	73746-09-19 13:12 G	28656494.88	28656495.05	28656495.25	0.0090	0.0060 *
Mercury	73746-09-23 01:41 G	28656498.48	28656498.57	28656498.69	0.0090	0.0067
Mercury	73746-12-20 03:51 G	28656586.55	28656586.66	28656586.80	0.0090	0.0058
Mercury	73747-03-18 06:15 G	28656674.63	28656674.76	28656674.90	0.0090	0.0048
Mercury	73747-06-14 08:24 G	28656762.72	28656762.85	28656763.00	0.0090	0.0040

Mercury	73747-09-10 10:34 G	28656850.80	28656850.94	28656851.10	0.0090	0.0031
Earth	73747-09-22 00:15 G	28656862.47	28656862.51	28656862.58	0.0090	0.0087
Mercury	73747-12-07 12:58 G	28656938.89	28656939.04	28656939.19	0.0090	0.0022
Mercury	73748-03-04 15:07 G	28657026.97	28657027.13	28657027.28	0.0090	0.0013
Mercury	73748-05-31 17:17 G	28657115.06	28657115.22	28657115.37	0.0090	0.0004
Mercury	73748-08-27 19:12 G	28657203.15	28657203.30	28657203.46	0.0090	0.0006
Mercury	73748-11-23 21:22 G	28657291.24	28657291.39	28657291.55	0.0090	0.0014
Mercury	73749-02-19 23:31 G	28657379.33	28657379.48	28657379.63	0.0090	0.0022
Mercury	73749-05-19 01:41 G	28657467.42	28657467.57	28657467.72	0.0090	0.0031
Mercury	73749-08-15 03:36 G	28657555.52	28657555.65	28657555.80	0.0090	0.0040
Mercury	73749-11-11 05:46 G	28657643.61	28657643.74	28657643.87	0.0090	0.0048
Mercury	73750-02-07 07:41 G	28657731.71	28657731.82	28657731.95	0.0090	0.0057
Mercury	73750-05-06 10:05 G	28657819.81	28657819.92	28657820.02	0.0090	0.0065
Mercury	73750-08-02 11:46 G	28657907.91	28657907.99	28657908.09	0.0090	0.0074
Mercury	73750-10-29 13:55 G	28657996.03	28657996.08	28657996.14	0.0090	0.0082
Mars	73773-08-19 12:00 G	28666325.70	28666326.00	28666326.33	0.0089	0.0037
Venus	73803-01-23 19:55 G	28677074.29	28677074.33	28677074.39	0.0088	0.0085
Venus	73803-09-06 08:39 G	28677299.79	28677299.86	28677299.98	0.0088	0.0079
Venus	73804-04-18 22:05 G	28677525.30	28677525.42	28677525.55	0.0088	0.0072
Venus	73804-11-30 10:48 G	28677750.83	28677750.95	28677751.12	0.0088	0.0066
Venus	73805-07-14 00:15 G	28677976.35	28677976.51	28677976.68	0.0088	0.0059
Venus	73806-02-24 13:27 G	28678201.88	28678202.06	28678202.24	0.0088	0.0052
Venus	73806-10-08 02:10 G	28678427.41	28678427.59	28678427.79	0.0088	0.0046
Venus	73807-05-21 15:22 G	28678652.95	28678653.14	28678653.35	0.0088	0.0039
Venus	73808-01-02 04:34 G	28678878.49	28678878.69	28678878.90	0.0088	0.0032
Venus	73808-08-14 17:17 G	28679104.02	28679104.22	28679104.45	0.0088	0.0026
Venus	73809-03-28 06:29 G	28679329.56	28679329.77	28679330.00	0.0088	0.0019
Venus	73809-11-08 19:41 G	28679555.11	28679555.32	28679555.55	0.0088	0.0012
Venus	73810-06-22 08:39 G	28679780.65	28679780.86	28679781.09	0.0088	0.0006
Venus	73811-02-02 21:51 G	28680006.18	28680006.41	28680006.63	0.0088	0.0002

Venus	73811-09-16 10:34 G	28680231.72	28680231.94	28680232.17	0.0088	0.0009
Venus	73812-04-28 23:46 G	28680457.27	28680457.49	28680457.71	0.0088	0.0015
Venus	73812-12-10 12:43 G	28680682.82	28680683.03	28680683.25	0.0088	0.0022
Venus	73813-07-24 01:27 G	28680908.36	28680908.56	28680908.78	0.0088	0.0029
Venus	73814-03-06 14:39 G	28681133.90	28681134.11	28681134.31	0.0088	0.0035
Venus	73814-10-18 03:07 G	28681359.45	28681359.63	28681359.84	0.0088	0.0042
Venus	73815-05-31 15:51 G	28681584.99	28681585.16	28681585.36	0.0088	0.0049
Venus	73816-01-12 05:17 G	28681810.55	28681810.72	28681810.89	0.0088	0.0055
Venus	73816-08-24 17:46 G	28682036.10	28682036.24	28682036.41	0.0088	0.0062
Venus	73817-04-07 06:29 G	28682261.65	28682261.77	28682261.93	0.0088	0.0069
Venus	73817-11-18 19:41 G	28682487.22	28682487.32	28682487.45	0.0088	0.0075
Venus	73818-07-02 08:10 G	28682712.79	28682712.84	28682712.95	0.0088	0.0082
Venus	73819-02-12 21:36 G	28682938.40	28682938.40	28682938.41	0.0088	0.0088
Moon	73824-03-10 21:07 G	28684791.28	28684791.38	28684791.54	0.0088	0.0077
Earth	73824-03-10 23:17 G	28684791.37	28684791.47	28684791.63	0.0088	0.0076 *
Earth	73825-03-13 11:31 G	28685158.78	28685158.98	28685159.21	0.0088	0.0050
Moon	73825-03-13 14:39 G	28685158.91	28685159.11	28685159.34	0.0088	0.0049 *
Moon	73826-03-15 20:10 G	28685526.10	28685526.34	28685526.60	0.0088	0.0025
Earth	73826-03-16 00:00 G	28685526.25	28685526.50	28685526.76	0.0088	0.0023 *
Earth	73827-03-18 12:00 G	28685893.74	28685894.00	28685894.26	0.0088	0.0003
Moon	73827-03-18 15:36 G	28685893.89	28685894.15	28685894.41	0.0088	0.0003 *
Moon	73828-03-19 20:39 G	28686261.12	28686261.36	28686261.61	0.0088	0.0029
Earth	73828-03-20 00:00 G	28686261.26	28686261.50	28686261.75	0.0088	0.0029 *
Mercury	73828-12-11 20:10 G	28686528.29	28686528.34	28686528.38	0.0088	0.0083
Mercury	73829-03-09 22:05 G	28686616.34	28686616.42	28686616.50	0.0088	0.0075
Earth	73829-03-22 12:00 G	28686628.80	28686629.00	28686629.20	0.0088	0.0055
Moon	73829-03-22 13:55 G	28686628.89	28686629.08	28686629.30	0.0088	0.0056 *
Mercury	73829-06-06 00:00 G	28686704.41	28686704.50	28686704.61	0.0088	0.0067
Mercury	73829-09-02 01:55 G	28686792.48	28686792.58	28686792.71	0.0088	0.0059
Mercury	73829-11-29 04:05 G	28686880.55	28686880.67	28686880.81	0.0088	0.0051

Mercury	73830-02-25 06:00 G	28686968.63	28686968.75	28686968.90	0.0088	0.0043
Moon	73830-03-24 22:05 G	28686996.36	28686996.42	28686996.53	0.0088	0.0082
Earth	73830-03-24 23:31 G	28686996.41	28686996.48	28686996.60	0.0088	0.0082 *
Mercury	73830-05-24 08:24 G	28687056.71	28687056.85	28687057.00	0.0088	0.0034
Mercury	73830-08-20 10:19 G	28687144.79	28687144.93	28687145.09	0.0088	0.0026
Mercury	73830-11-16 12:29 G	28687232.87	28687233.02	28687233.18	0.0088	0.0018
Mercury	73831-02-12 14:39 G	28687320.95	28687321.11	28687321.27	0.0088	0.0009
Mercury	73831-05-11 16:48 G	28687409.04	28687409.20	28687409.36	0.0088	0.0001
Mercury	73831-08-07 18:58 G	28687497.13	28687497.29	28687497.45	0.0088	0.0008
Mercury	73831-11-03 21:07 G	28687585.22	28687585.38	28687585.54	0.0088	0.0016
Mercury	73832-01-30 23:03 G	28687673.32	28687673.46	28687673.62	0.0088	0.0025
Mercury	73832-04-28 01:27 G	28687761.41	28687761.56	28687761.71	0.0088	0.0033
Mercury	73832-07-25 03:22 G	28687849.51	28687849.64	28687849.79	0.0088	0.0042
Mercury	73832-10-21 05:46 G	28687937.61	28687937.74	28687937.87	0.0088	0.0050
Mercury	73833-01-17 07:55 G	28688025.72	28688025.83	28688025.95	0.0088	0.0059
Mercury	73833-04-15 09:51 G	28688113.83	28688113.91	28688114.03	0.0088	0.0068
Mercury	73833-07-12 12:29 G	28688201.94	28688202.02	28688202.10	0.0088	0.0076
Mercury	73833-10-08 14:24 G	28688290.08	28688290.10	28688290.15	0.0088	0.0085
Mars	73857-04-26 11:31 G	28696890.69	28696890.98	28696891.27	0.0089	0.0007
Venus	73885-10-21 15:51 G	28707296.12	28707296.16	28707296.24	0.0090	0.0086
Venus	73886-06-04 05:03 G	28707521.63	28707521.71	28707521.83	0.0090	0.0079
Venus	73887-01-15 18:15 G	28707747.14	28707747.26	28707747.40	0.0090	0.0072
Venus	73887-08-29 07:27 G	28707972.66	28707972.81	28707972.96	0.0090	0.0065
Venus	73888-04-10 19:55 G	28708198.19	28708198.33	28708198.52	0.0090	0.0059
Venus	73888-11-22 09:07 G	28708423.72	28708423.88	28708424.08	0.0090	0.0052
Venus	73889-07-05 22:05 G	28708649.25	28708649.42	28708649.63	0.0090	0.0045
Venus	73890-02-16 11:03 G	28708874.78	28708874.96	28708875.18	0.0090	0.0038
Venus	73890-09-30 00:15 G	28709100.32	28709100.51	28709100.73	0.0090	0.0031
Venus	73891-05-13 13:27 G	28709325.86	28709326.06	28709326.28	0.0090	0.0023
Venus	73891-12-25 02:24 G	28709551.40	28709551.60	28709551.82	0.0090	0.0017



Venus	73892-08-06 15:36 G	28709776.93	28709777.15	28709777.37	0.0090	0.0009
Venus	73893-03-20 04:34 G	28710002.47	28710002.69	28710002.91	0.0090	0.0002
Venus	73893-10-31 17:31 G	28710228.02	28710228.23	28710228.45	0.0090	0.0005
Venus	73894-06-14 06:43 G	28710453.57	28710453.78	28710454.00	0.0090	0.0012
Venus	73895-01-25 19:41 G	28710679.11	28710679.32	28710679.54	0.0090	0.0019
Venus	73895-09-08 08:39 G	28710904.66	28710904.86	28710905.08	0.0090	0.0026
Venus	73896-04-20 21:36 G	28711130.21	28711130.40	28711130.62	0.0090	0.0034
Venus	73896-12-02 10:48 G	28711355.77	28711355.95	28711356.16	0.0090	0.0041
Venus	73897-07-15 23:46 G	28711581.33	28711581.49	28711581.70	0.0090	0.0048
Venus	73898-02-26 12:58 G	28711806.89	28711807.04	28711807.23	0.0090	0.0055
Venus	73898-10-10 01:55 G	28712032.45	28712032.58	28712032.76	0.0090	0.0062
Venus	73899-05-23 15:22 G	28712258.02	28712258.14	28712258.30	0.0090	0.0069
Venus	73900-01-04 05:03 G	28712483.59	28712483.71	28712483.82	0.0090	0.0075
Venus	73900-08-17 18:00 G	28712709.17	28712709.25	28712709.34	0.0090	0.0082
Venus	73901-03-31 06:43 G	28712934.77	28712934.78	28712934.83	0.0090	0.0089
Moon	73905-09-09 12:58 G	28714557.97	28714558.04	28714558.17	0.0090	0.0083
Earth	73905-09-09 15:22 G	28714558.10	28714558.14	28714558.22	0.0090	0.0087 *
Earth	73906-09-12 02:39 G	28714925.44	28714925.61	28714925.81	0.0090	0.0060
Moon	73906-09-12 05:46 G	28714925.59	28714925.74	28714925.94	0.0090	0.0065 *
Moon	73907-09-14 10:34 G	28715292.71	28715292.94	28715293.19	0.0090	0.0029
Earth	73907-09-14 13:55 G	28715292.86	28715293.08	28715293.33	0.0090	0.0033 *
Earth	73908-09-16 01:27 G	28715660.30	28715660.56	28715660.81	0.0090	0.0005
Moon	73908-09-16 04:48 G	28715660.46	28715660.70	28715660.96	0.0090	0.0010 *
Moon	73909-09-18 09:51 G	28716027.68	28716027.91	28716028.15	0.0090	0.0026
Earth	73909-09-18 12:43 G	28716027.79	28716028.03	28716028.28	0.0090	0.0022 *
Earth	73910-09-20 23:46 G	28716395.29	28716395.49	28716395.71	0.0090	0.0049
Moon	73910-09-21 01:55 G	28716395.37	28716395.58	28716395.82	0.0090	0.0046 *
Mercury	73910-09-30 18:15 G	28716405.25	28716405.26	28716405.31	0.0090	0.0088
Mercury	73910-12-27 20:39 G	28716493.30	28716493.36	28716493.45	0.0090	0.0079
Mercury	73911-03-25 22:48 G	28716581.37	28716581.45	28716581.57	0.0090	0.0070

Mercury	73911-06-22 01:12 G	28716669.44	28716669.55	28716669.68	0.0090	0.0060
Mercury	73911-09-18 03:22 G	28716757.52	28716757.64	28716757.78	0.0090	0.0052
Moon	73911-09-23 09:36 G	28716762.81	28716762.90	28716763.04	0.0090	0.0080
Earth	73911-09-23 11:03 G	28716762.84	28716762.96	28716763.11	0.0090	0.0076 *
Mercury	73911-12-15 05:31 G	28716845.60	28716845.73	28716845.88	0.0090	0.0043
Mercury	73912-03-12 07:55 G	28716933.69	28716933.83	28716933.98	0.0090	0.0033
Mercury	73912-06-08 10:05 G	28717021.78	28717021.92	28717022.08	0.0090	0.0025
Mercury	73912-09-04 12:15 G	28717109.86	28717110.01	28717110.17	0.0090	0.0016
Mercury	73912-12-01 14:39 G	28717197.95	28717198.11	28717198.26	0.0090	0.0007
Mercury	73913-02-27 16:48 G	28717286.04	28717286.20	28717286.35	0.0090	0.0003
Mercury	73913-05-26 18:43 G	28717374.13	28717374.28	28717374.44	0.0090	0.0012
Mercury	73913-08-22 20:53 G	28717462.22	28717462.37	28717462.53	0.0090	0.0020
Mercury	73913-11-18 23:03 G	28717550.32	28717550.46	28717550.61	0.0090	0.0028
Mercury	73914-02-15 00:58 G	28717638.41	28717638.54	28717638.69	0.0090	0.0038
Mercury	73914-05-14 03:07 G	28717726.51	28717726.63	28717726.77	0.0090	0.0046
Mercury	73914-08-10 05:03 G	28717814.60	28717814.71	28717814.85	0.0090	0.0055
Mercury	73914-11-06 07:27 G	28717902.70	28717902.81	28717902.92	0.0090	0.0063
Mercury	73915-02-02 09:07 G	28717990.81	28717990.88	28717990.99	0.0090	0.0072
Mercury	73915-05-01 11:31 G	28718078.92	28718078.98	28718079.05	0.0090	0.0080
Mercury	73915-07-28 13:41 G	28718167.05	28718167.07	28718167.09	0.0090	0.0088
Mars	73939-03-01 06:58 G	28726783.57	28726783.79	28726784.06	0.0089	0.0063
Jupiter	73961-10-23 14:24 G	28735056.02	28735056.10	28735056.29	0.0088	0.0085
Venus	73967-04-28 06:43 G	28737068.76	28737068.78	28737068.84	0.0088	0.0086
Venus	73967-12-09 19:41 G	28737294.26	28737294.32	28737294.44	0.0088	0.0080
Venus	73968-07-22 08:53 G	28737519.77	28737519.87	28737520.01	0.0088	0.0073
Venus	73969-03-04 22:19 G	28737745.28	28737745.43	28737745.57	0.0088	0.0066
Venus	73969-10-16 10:48 G	28737970.81	28737970.95	28737971.13	0.0088	0.0060
Venus	73970-05-30 00:00 G	28738196.34	28738196.50	28738196.69	0.0088	0.0053
Venus	73971-01-10 13:12 G	28738421.87	28738422.05	28738422.25	0.0088	0.0046
Venus	73971-08-24 01:55 G	28738647.40	28738647.58	28738647.80	0.0088	0.0040

Venus	73972-04-05 15:07 G	28738872.93	28738873.13	28738873.35	0.0088	0.0033
Venus	73972-11-17 04:19 G	28739098.48	28739098.68	28739098.90	0.0088	0.0026
Venus	73973-06-30 17:31 G	28739324.01	28739324.23	28739324.45	0.0088	0.0019
Venus	73974-02-11 06:15 G	28739549.55	28739549.76	28739549.99	0.0088	0.0013
Venus	73974-09-24 19:27 G	28739775.09	28739775.31	28739775.54	0.0088	0.0006
Venus	73975-05-08 08:39 G	28740000.63	28740000.86	28740001.08	0.0088	0.0002
Venus	73975-12-19 21:36 G	28740226.18	28740226.40	28740226.63	0.0088	0.0008
Venus	73976-08-01 10:34 G	28740451.73	28740451.94	28740452.16	0.0088	0.0015
Venus	73977-03-14 23:31 G	28740677.27	28740677.48	28740677.70	0.0088	0.0022
Venus	73977-10-26 12:15 G	28740902.82	28740903.01	28740903.24	0.0088	0.0029
Venus	73978-06-09 01:27 G	28741128.36	28741128.56	28741128.77	0.0088	0.0035
Venus	73979-01-20 14:24 G	28741353.91	28741354.10	28741354.30	0.0088	0.0042
Venus	73979-09-03 03:07 G	28741579.46	28741579.63	28741579.83	0.0088	0.0049
Venus	73980-04-15 16:19 G	28741805.01	28741805.18	28741805.35	0.0088	0.0055
Venus	73980-11-27 05:03 G	28742030.57	28742030.71	28742030.88	0.0088	0.0062
Venus	73981-07-10 17:46 G	28742256.12	28742256.24	28742256.40	0.0088	0.0069
Venus	73982-02-21 06:58 G	28742481.68	28742481.79	28742481.91	0.0088	0.0075
Venus	73982-10-04 19:27 G	28742707.25	28742707.31	28742707.41	0.0088	0.0082
Earth	73988-03-11 08:39 G	28744691.84	28744691.86	28744691.94	0.0088	0.0086
Moon	73988-03-11 12:00 G	28744691.93	28744692.00	28744692.12	0.0088	0.0082 *
Moon	73989-03-13 17:46 G	28745059.07	28745059.24	28745059.42	0.0088	0.0064
Earth	73989-03-13 20:53 G	28745059.21	28745059.37	28745059.59	0.0088	0.0060 *
Earth	73990-03-16 09:22 G	28745426.66	28745426.89	28745427.14	0.0088	0.0034
Moon	73990-03-16 12:58 G	28745426.80	28745427.04	28745427.30	0.0088	0.0029 *
Moon	73991-03-18 18:58 G	28745794.04	28745794.29	28745794.55	0.0088	0.0012
Earth	73991-03-18 21:51 G	28745794.15	28745794.41	28745794.67	0.0088	0.0007 *
Earth	73992-03-20 09:36 G	28746161.65	28746161.90	28746162.16	0.0088	0.0019
Moon	73992-03-20 11:46 G	28746161.74	28746161.99	28746162.26	0.0088	0.0024 *
Moon	73993-03-22 20:53 G	28746529.16	28746529.37	28746529.61	0.0088	0.0041
Earth	73993-03-22 21:36 G	28746529.18	28746529.40	28746529.63	0.0088	0.0045 *

Mercury	73993-06-12 17:03 G	28746611.20	28746611.21	28746611.27	0.0088	0.0086
Mercury	73993-09-08 19:12 G	28746699.25	28746699.30	28746699.39	0.0088	0.0078
Mercury	73993-12-05 21:36 G	28746787.31	28746787.40	28746787.50	0.0088	0.0069
Mercury	73994-03-03 23:31 G	28746875.37	28746875.48	28746875.60	0.0088	0.0061
Moon	73994-03-25 08:53 G	28746896.75	28746896.87	28746897.03	0.0088	0.0075
Earth	73994-03-25 09:22 G	28746896.76	28746896.89	28746897.07	0.0088	0.0071 *
Mercury	73994-05-31 01:41 G	28746963.45	28746963.57	28746963.69	0.0088	0.0053
Mercury	73994-08-27 03:36 G	28747051.52	28747051.65	28747051.79	0.0088	0.0045
Mercury	73994-11-23 05:31 G	28747139.60	28747139.73	28747139.88	0.0088	0.0037
Mercury	73995-02-19 07:41 G	28747227.68	28747227.82	28747227.98	0.0088	0.0029
Mercury	73995-05-18 09:51 G	28747315.76	28747315.91	28747316.07	0.0088	0.0020
Mercury	73995-08-14 12:00 G	28747403.84	28747404.00	28747404.16	0.0088	0.0012
Mercury	73995-11-10 14:10 G	28747491.93	28747492.09	28747492.25	0.0088	0.0004
Mercury	73996-02-06 16:19 G	28747580.02	28747580.18	28747580.34	0.0088	0.0005
Mercury	73996-05-04 18:15 G	28747668.11	28747668.26	28747668.42	0.0088	0.0014
Mercury	73996-07-31 20:24 G	28747756.20	28747756.35	28747756.51	0.0088	0.0022
Mercury	73996-10-27 22:19 G	28747844.29	28747844.43	28747844.59	0.0088	0.0031
Mercury	73997-01-24 00:43 G	28747932.39	28747932.53	28747932.68	0.0088	0.0039
Mercury	73997-04-22 02:39 G	28748020.49	28748020.61	28748020.76	0.0088	0.0048
Mercury	73997-07-19 05:03 G	28748108.59	28748108.71	28748108.84	0.0088	0.0056
Mercury	73997-10-15 06:58 G	28748196.70	28748196.79	28748196.91	0.0088	0.0065
Mercury	73998-01-11 09:36 G	28748284.81	28748284.90	28748284.99	0.0088	0.0073
Mercury	73998-04-09 11:31 G	28748372.94	28748372.98	28748373.05	0.0088	0.0082

# 75TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 75th millennium

# CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	74020-12-11 03:36	G	28756654.48	28756654.65	28756654.89	0.0089	0.0064	
Mars	74022-11-04 17:31	G	28757348.11	28757348.23	28757348.41	0.0089	0.0076	
Venus	74050-01-24 03:07	G	28767290.59	28767290.63	28767290.70	0.0089	0.0087	
Venus	74050-09-06 16:05	G	28767516.09	28767516.17	28767516.28	0.0089	0.0080	
Venus	74051-04-20 05:17	G	28767741.61	28767741.72	28767741.86	0.0090	0.0073	
Venus	74051-12-01 18:29	G	28767967.13	28767967.27	28767967.42	0.0090	0.0066	
Venus	74052-07-14 07:41	G	28768192.66	28768192.82	28768192.98	0.0090	0.0059	
Venus	74053-02-24 20:10	G	28768418.19	28768418.34	28768418.54	0.0090	0.0053	
Venus	74053-10-08 09:22	G	28768643.72	28768643.89	28768644.09	0.0090	0.0045	
Venus	74054-05-21 22:48	G	28768869.26	28768869.45	28768869.65	0.0090	0.0038	
Venus	74055-01-02 12:00	G	28769094.79	28769095.00	28769095.20	0.0090	0.0031	
Venus	74055-08-16 00:58	G	28769320.33	28769320.54	28769320.75	0.0090	0.0024	
Venus	74056-03-28 13:55	G	28769545.87	28769546.08	28769546.29	0.0090	0.0017	
Venus	74056-11-09 02:53	G	28769771.41	28769771.62	28769771.84	0.0090	0.0010	
Venus	74057-06-22 16:05	G	28769996.95	28769997.17	28769997.39	0.0090	0.0003	
Venus	74058-02-03 05:03	G	28770222.49	28770222.71	28770222.93	0.0090	0.0005	
Venus	74058-09-16 18:00	G	28770448.04	28770448.25	28770448.47	0.0090	0.0012	
Venus	74059-04-30 06:58	G	28770673.58	28770673.79	28770674.01	0.0090	0.0019	
Venus	74059-12-11 20:10	G	28770899.13	28770899.34	28770899.55	0.0090	0.0026	
Venus	74060-07-24 09:22	G	28771124.69	28771124.89	28771125.09	0.0090	0.0033	
Venus	74061-03-06 22:19	G	28771350.24	28771350.43	28771350.63	0.0090	0.0040	
Venus	74061-10-18 11:03	G	28771575.79	28771575.96	28771576.16	0.0090	0.0048	
Venus	74062-06-01 00:15	G	28771801.36	28771801.51	28771801.70	0.0090	0.0055	
Venus	74063-01-12 13:12	G	28772026.92	28772027.05	28772027.23	0.0090	0.0062	
Venus	74063-08-26 02:24	G	28772252.48	28772252.60	28772252.76	0.0090	0.0069	

Venus	74064-04-07 15:22 G	28772478.05	28772478.14	28772478.28	0.0090	0.0076
Venus	74064-11-19 05:03 G	28772703.63	28772703.71	28772703.80	0.0090	0.0082
Venus	74065-07-02 18:15 G	28772929.25	28772929.26	28772929.29	0.0090	0.0089
Moon	74070-09-11 09:51 G	28774825.76	28774825.91	28774826.09	0.0090	0.0069
Earth	74070-09-11 13:12 G	28774825.92	28774826.05	28774826.23	0.0090	0.0071 *
Earth	74071-09-14 00:29 G	28775193.32	28775193.52	28775193.76	0.0090	0.0044
Moon	74071-09-14 03:51 G	28775193.45	28775193.66	28775193.89	0.0090	0.0046 *
Moon	74072-09-15 09:22 G	28775560.64	28775560.89	28775561.13	0.0090	0.0014
Earth	74072-09-15 12:00 G	28775560.76	28775561.00	28775561.26	0.0090	0.0017 *
Earth	74073-09-17 23:03 G	28775928.22	28775928.46	28775928.72	0.0090	0.0011
Moon	74073-09-18 00:43 G	28775928.28	28775928.53	28775928.80	0.0090	0.0008 *
Moon	74074-09-20 09:36 G	28776295.70	28776295.90	28776296.14	0.0090	0.0040
Earth	74074-09-20 10:05 G	28776295.70	28776295.92	28776296.17	0.0090	0.0038 *
Mercury	74075-06-27 17:46 G	28776576.19	28776576.24	28776576.31	0.0090	0.0082
Moon	74075-09-22 20:53 G	28776663.20	28776663.37	28776663.58	0.0090	0.0062
Earth	74075-09-22 21:07 G	28776663.23	28776663.38	28776663.58	0.0090	0.0065 *
Mercury	74075-09-23 19:55 G	28776664.25	28776664.33	28776664.44	0.0090	0.0073
Mercury	74075-12-20 22:19 G	28776752.33	28776752.43	28776752.55	0.0090	0.0064
Mercury	74076-03-18 00:29 G	28776840.41	28776840.52	28776840.66	0.0090	0.0055
Mercury	74076-06-14 02:53 G	28776928.49	28776928.62	28776928.76	0.0090	0.0045
Mercury	74076-09-10 05:03 G	28777016.57	28777016.71	28777016.86	0.0090	0.0037
Mercury	74076-12-07 07:12 G	28777104.66	28777104.80	28777104.96	0.0090	0.0028
Mercury	74077-03-05 09:36 G	28777192.75	28777192.90	28777193.05	0.0090	0.0019
Mercury	74077-06-01 11:46 G	28777280.83	28777280.99	28777281.15	0.0090	0.0010
Mercury	74077-08-28 13:55 G	28777368.92	28777369.08	28777369.24	0.0090	0.0001
Mercury	74077-11-24 16:05 G	28777457.01	28777457.17	28777457.33	0.0090	0.0008
Mercury	74078-02-20 18:15 G	28777545.11	28777545.26	28777545.41	0.0090	0.0017
Mercury	74078-05-19 20:10 G	28777633.20	28777633.34	28777633.50	0.0090	0.0026
Mercury	74078-08-15 22:19 G	28777721.30	28777721.43	28777721.58	0.0090	0.0034
Mercury	74078-11-12 00:29 G	28777809.39	28777809.52	28777809.66	0.0090	0.0043

Mercury	74079-02-08 02:24 G	28777897.49	28777897.60	28777897.74	0.0090	0.0052
Mercury	74079-05-07 04:48 G	28777985.59	28777985.70	28777985.82	0.0090	0.0060
Mercury	74079-08-03 06:43 G	28778073.69	28778073.78	28778073.89	0.0090	0.0069
Mercury	74079-10-30 08:53 G	28778161.80	28778161.87	28778161.95	0.0089	0.0077
Mercury	74080-01-26 10:48 G	28778249.92	28778249.95	28778250.00	0.0089	0.0085
Mars	74102-10-13 17:46 G	28786544.90	28786545.24	28786545.58	0.0089	0.0006
Jupiter	74127-12-27 18:29 G	28795750.80	28795751.27	28795751.81	0.0088	0.0030
Venus	74131-07-31 17:46 G	28797063.23	28797063.24	28797063.28	0.0088	0.0087
Venus	74132-03-13 06:29 G	28797288.71	28797288.77	28797288.89	0.0088	0.0081
Venus	74132-10-24 19:55 G	28797514.23	28797514.33	28797514.47	0.0088	0.0074
Venus	74133-06-07 09:07 G	28797739.75	28797739.88	28797740.03	0.0088	0.0067
Venus	74134-01-18 21:51 G	28797965.27	28797965.41	28797965.59	0.0088	0.0061
Venus	74134-09-01 10:48 G	28798190.79	28798190.95	28798191.15	0.0088	0.0054
Venus	74135-04-15 00:00 G	28798416.32	28798416.50	28798416.70	0.0088	0.0047
Venus	74135-11-26 13:12 G	28798641.86	28798642.05	28798642.26	0.0088	0.0040
Venus	74136-07-09 01:55 G	28798867.39	28798867.58	28798867.81	0.0088	0.0034
Venus	74137-02-19 15:07 G	28799092.93	28799093.13	28799093.35	0.0088	0.0027
Venus	74137-10-03 04:05 G	28799318.46	28799318.67	28799318.90	0.0088	0.0020
Venus	74138-05-16 17:17 G	28799544.00	28799544.22	28799544.44	0.0088	0.0013
Venus	74138-12-28 06:29 G	28799769.55	28799769.77	28799769.99	0.0088	0.0006
Venus	74139-08-10 19:27 G	28799995.09	28799995.31	28799995.53	0.0088	0.0001
Venus	74140-03-23 08:24 G	28800220.63	28800220.85	28800221.07	0.0088	0.0008
Venus	74140-11-03 21:22 G	28800446.17	28800446.39	28800446.61	0.0088	0.0015
Venus	74141-06-17 10:19 G	28800671.72	28800671.93	28800672.15	0.0088	0.0022
Venus	74142-01-28 23:03 G	28800897.27	28800897.46	28800897.69	0.0088	0.0029
Venus	74142-09-11 12:15 G	28801122.81	28801123.01	28801123.22	0.0088	0.0035
Venus	74143-04-25 01:12 G	28801348.36	28801348.55	28801348.75	0.0088	0.0042
Venus	74143-12-06 14:10 G	28801573.92	28801574.09	28801574.29	0.0088	0.0049
Venus	74144-07-19 02:53 G	28801799.47	28801799.62	28801799.81	0.0088	0.0056
Venus	74145-03-01 15:51 G	28802025.02	28802025.16	28802025.33	0.0088	0.0062

Venus	74145-10-13 04:34 G	28802250.57	28802250.69	28802250.85	0.0088	0.0069
Venus	74146-05-26 17:46 G	28802476.14	28802476.24	28802476.36	0.0088	0.0075
Venus	74147-01-07 06:29 G	28802701.71	28802701.77	28802701.87	0.0088	0.0082
Earth	74153-03-14 05:46 G	28804959.59	28804959.74	28804959.90	0.0088	0.0070
Moon	74153-03-14 08:39 G	28804959.74	28804959.86	28804960.04	0.0088	0.0072 *
Moon	74154-03-16 15:36 G	28805326.93	28805327.15	28805327.38	0.0088	0.0042
Earth	74154-03-16 18:00 G	28805327.03	28805327.25	28805327.49	0.0088	0.0044 *
Earth	74155-03-19 06:00 G	28805694.50	28805694.75	28805695.01	0.0088	0.0018
Moon	74155-03-19 07:12 G	28805694.55	28805694.80	28805695.08	0.0088	0.0020 *
Moon	74156-03-20 17:46 G	28806061.99	28806062.24	28806062.49	0.0088	0.0009
Earth	74156-03-20 18:29 G	28806062.01	28806062.27	28806062.53	0.0088	0.0008 *
Moon	74157-03-23 04:48 G	28806429.47	28806429.70	28806429.98	0.0088	0.0033
Earth	74157-03-23 06:00 G	28806429.53	28806429.75	28806430.01	0.0088	0.0035 *
Mercury	74158-03-10 16:48 G	28806782.14	28806782.20	28806782.27	0.0088	0.0080
Earth	74158-03-25 18:00 G	28806797.09	28806797.25	28806797.46	0.0088	0.0061
Moon	74158-03-25 20:39 G	28806797.19	28806797.36	28806797.55	0.0088	0.0062 *
Mercury	74158-06-06 18:43 G	28806870.20	28806870.28	28806870.38	0.0088	0.0072
Mercury	74158-09-02 20:39 G	28806958.27	28806958.36	28806958.48	0.0088	0.0064
Mercury	74158-11-29 22:48 G	28807046.34	28807046.45	28807046.58	0.0088	0.0056
Mercury	74159-02-26 00:43 G	28807134.41	28807134.53	28807134.67	0.0088	0.0048
Moon	74159-03-28 03:22 G	28807164.60	28807164.64	28807164.72	0.0088	0.0085
Earth	74159-03-28 06:29 G	28807164.73	28807164.77	28807164.83	0.0088	0.0086
Mercury	74159-05-25 02:53 G	28807222.49	28807222.62	28807222.77	0.0088	0.0040
Mercury	74159-08-21 05:03 G	28807310.57	28807310.71	28807310.86	0.0088	0.0031
Mercury	74159-11-17 07:12 G	28807398.65	28807398.80	28807398.95	0.0088	0.0023
Mercury	74160-02-13 09:07 G	28807486.73	28807486.88	28807487.04	0.0088	0.0015
Mercury	74160-05-11 11:17 G	28807574.81	28807574.97	28807575.13	0.0088	0.0006
Mercury	74160-08-07 13:27 G	28807662.90	28807663.06	28807663.22	0.0088	0.0002
Mercury	74160-11-03 15:22 G	28807750.99	28807751.14	28807751.30	0.0088	0.0011
Mercury	74161-01-30 17:31 G	28807839.08	28807839.23	28807839.39	0.0088	0.0019



Mercury	74161-04-28 19:41 G	28807927.17	28807927.32	28807927.47	0.0088	0.0027
Mercury	74161-07-25 21:51 G	28808015.27	28808015.41	28808015.56	0.0088	0.0036
Mercury	74161-10-22 00:00 G	28808103.36	28808103.50	28808103.64	0.0088	0.0044
Mercury	74162-01-18 01:55 G	28808191.46	28808191.58	28808191.72	0.0088	0.0053
Mercury	74162-04-16 04:05 G	28808279.57	28808279.67	28808279.80	0.0088	0.0062
Mercury	74162-07-13 06:29 G	28808367.68	28808367.77	28808367.87	0.0088	0.0070
Mercury	74162-10-09 08:24 G	28808455.80	28808455.85	28808455.94	0.0088	0.0079
Mercury	74163-01-05 10:48 G	28808543.95	28808543.95	28808543.97	0.0088	0.0087
Mars	74186-06-21 09:36 G	28817111.63	28817111.90	28817112.20	0.0089	0.0019
Venus	74214-04-29 14:10 G	28827285.07	28827285.09	28827285.15	0.0090	0.0088
Venus	74214-12-11 03:22 G	28827510.56	28827510.64	28827510.74	0.0090	0.0081
Venus	74215-07-24 16:19 G	28827736.07	28827736.18	28827736.31	0.0090	0.0074
Venus	74216-03-06 05:31 G	28827961.58	28827961.73	28827961.87	0.0090	0.0067
Venus	74216-10-17 18:00 G	28828187.11	28828187.25	28828187.43	0.0090	0.0061
Venus	74217-05-31 07:41 G	28828412.64	28828412.82	28828412.99	0.0090	0.0053
Venus	74218-01-11 20:39 G	28828638.17	28828638.36	28828638.55	0.0090	0.0046
Venus	74218-08-25 09:36 G	28828863.71	28828863.90	28828864.10	0.0090	0.0039
Venus	74219-04-07 22:34 G	28829089.24	28829089.44	28829089.65	0.0090	0.0032
Venus	74219-11-19 11:31 G	28829314.78	28829314.98	28829315.20	0.0090	0.0025
Venus	74220-07-02 00:43 G	28829540.32	28829540.53	28829540.75	0.0090	0.0018
Venus	74221-02-12 13:41 G	28829765.86	28829766.07	28829766.29	0.0090	0.0011
Venus	74221-09-26 02:53 G	28829991.40	28829991.62	28829991.84	0.0090	0.0003
Venus	74222-05-09 15:51 G	28830216.95	28830217.16	28830217.38	0.0090	0.0005
Venus	74222-12-21 05:03 G	28830442.49	28830442.71	28830442.93	0.0090	0.0011
Venus	74223-08-03 17:46 G	28830668.04	28830668.24	28830668.47	0.0090	0.0019
Venus	74224-03-16 06:43 G	28830893.58	28830893.78	28830894.00	0.0090	0.0026
Venus	74224-10-27 19:55 G	28831119.13	28831119.33	28831119.54	0.0090	0.0033
Venus	74225-06-10 09:07 G	28831344.69	28831344.88	28831345.08	0.0090	0.0040
Venus	74226-01-21 22:05 G	28831570.24	28831570.42	28831570.62	0.0090	0.0047
Venus	74226-09-04 11:03 G	28831795.80	28831795.96	28831796.15	0.0090	0.0054

Venus	74227-04-18 00:15 G	28832021.36	28832021.51	28832021.68	0.0090	0.0061
Venus	74227-11-29 13:27 G	28832246.92	28832247.06	28832247.20	0.0090	0.0068
Venus	74228-07-12 02:39 G	28832472.50	28832472.61	28832472.73	0.0090	0.0075
Venus	74229-02-22 15:36 G	28832698.08	28832698.15	28832698.25	0.0090	0.0082
Venus	74229-10-06 04:34 G	28832923.68	28832923.69	28832923.73	0.0090	0.0089
Earth	74234-09-13 00:00 G	28834726.40	28834726.50	28834726.61	0.0090	0.0081
Moon	74234-09-13 03:22 G	28834726.51	28834726.64	28834726.78	0.0090	0.0076 *
Moon	74235-09-15 09:07 G	28835093.71	28835093.88	28835094.08	0.0090	0.0059
Earth	74235-09-15 10:48 G	28835093.78	28835093.95	28835094.18	0.0090	0.0055 *
Earth	74236-09-16 22:19 G	28835461.20	28835461.43	28835461.68	0.0090	0.0028
Moon	74236-09-16 23:46 G	28835461.25	28835461.49	28835461.76	0.0090	0.0024 *
Earth	74237-09-19 09:36 G	28835828.65	28835828.90	28835829.16	0.0090	0.0002
Moon	74237-09-19 09:36 G	28835828.66	28835828.90	28835829.15	0.0090	0.0005 *
Moon	74238-09-21 19:12 G	28836196.06	28836196.30	28836196.56	0.0090	0.0031
Earth	74238-09-21 20:39 G	28836196.13	28836196.36	28836196.61	0.0090	0.0026 *
Earth	74239-09-24 07:27 G	28836563.63	28836563.81	28836564.04	0.0090	0.0054
Moon	74239-09-24 09:22 G	28836563.71	28836563.89	28836564.12	0.0090	0.0050 *
Mercury	74239-12-28 14:53 G	28836659.08	28836659.12	28836659.17	0.0090	0.0085
Mercury	74240-03-25 17:17 G	28836747.14	28836747.22	28836747.30	0.0090	0.0076
Mercury	74240-06-21 19:27 G	28836835.21	28836835.31	28836835.42	0.0090	0.0067
Mercury	74240-09-17 21:36 G	28836923.29	28836923.40	28836923.53	0.0090	0.0058
Moon	74240-09-25 15:22 G	28836931.08	28836931.14	28836931.25	0.0090	0.0085
Earth	74240-09-25 18:58 G	28836931.19	28836931.29	28836931.42	0.0090	0.0080 *
Mercury	74240-12-15 00:00 G	28837011.37	28837011.50	28837011.64	0.0090	0.0049
Mercury	74241-03-13 02:10 G	28837099.45	28837099.59	28837099.74	0.0090	0.0040
Mercury	74241-06-09 04:34 G	28837187.54	28837187.69	28837187.84	0.0090	0.0031
Mercury	74241-09-05 06:43 G	28837275.63	28837275.78	28837275.93	0.0090	0.0022
Mercury	74241-12-02 08:53 G	28837363.72	28837363.87	28837364.03	0.0090	0.0013
Mercury	74242-02-28 11:03 G	28837451.81	28837451.96	28837452.12	0.0090	0.0004
Mercury	74242-05-27 13:12 G	28837539.90	28837540.05	28837540.21	0.0090	0.0005

Mercury	74242-08-23 15:22 G	28837627.99	28837628.14	28837628.30	0.0090	0.0014
Mercury	74242-11-19 17:31 G	28837716.08	28837716.23	28837716.39	0.0090	0.0022
Mercury	74243-02-15 19:27 G	28837804.18	28837804.31	28837804.47	0.0090	0.0032
Mercury	74243-05-14 21:51 G	28837892.27	28837892.41	28837892.55	0.0090	0.0040
Mercury	74243-08-10 23:46 G	28837980.37	28837980.49	28837980.63	0.0090	0.0049
Mercury	74243-11-07 02:10 G	28838068.47	28838068.59	28838068.71	0.0090	0.0057
Mercury	74244-02-03 04:05 G	28838156.57	28838156.67	28838156.78	0.0089	0.0066
Mercury	74244-05-01 06:00 G	28838244.68	28838244.75	28838244.85	0.0089	0.0074
Mercury	74244-07-28 08:10 G	28838332.79	28838332.84	28838332.91	0.0089	0.0083
Mars	74266-05-28 01:55 G	28846306.42	28846306.58	28846306.78	0.0089	0.0075
Jupiter	74294-03-01 13:27 G	28856445.56	28856446.06	28856446.61	0.0088	0.0024
Venus	74296-06-15 17:03 G	28857283.15	28857283.21	28857283.31	0.0088	0.0082
Venus	74297-01-27 06:15 G	28857508.66	28857508.76	28857508.89	0.0088	0.0075
Venus	74297-09-09 19:27 G	28857734.18	28857734.31	28857734.46	0.0088	0.0068
Venus	74298-04-23 08:10 G	28857959.70	28857959.84	28857960.02	0.0088	0.0062
Venus	74298-12-04 21:22 G	28858185.24	28858185.39	28858185.58	0.0088	0.0055
Venus	74299-07-18 10:34 G	28858410.77	28858410.94	28858411.14	0.0088	0.0048
Venus	74300-02-28 23:31 G	28858636.29	28858636.48	28858636.69	0.0088	0.0041
Venus	74300-10-12 12:43 G	28858861.83	28858862.03	28858862.24	0.0088	0.0034
Venus	74301-05-26 01:27 G	28859087.36	28859087.56	28859087.78	0.0088	0.0028
Venus	74302-01-06 14:39 G	28859312.90	28859313.11	28859313.33	0.0088	0.0021
Venus	74302-08-20 03:36 G	28859538.44	28859538.65	28859538.88	0.0088	0.0014
Venus	74303-04-02 16:48 G	28859763.98	28859764.20	28859764.42	0.0088	0.0007
Venus	74303-11-14 05:46 G	28859989.52	28859989.74	28859989.97	0.0088	0.0001
Venus	74304-06-26 18:43 G	28860215.06	28860215.28	28860215.51	0.0088	0.0007
Venus	74305-02-07 07:41 G	28860440.60	28860440.82	28860441.04	0.0088	0.0014
Venus	74305-09-20 20:39 G	28860666.15	28860666.36	28860666.58	0.0088	0.0021
Venus	74306-05-04 09:36 G	28860891.70	28860891.90	28860892.12	0.0088	0.0028
Venus	74306-12-15 22:34 G	28861117.25	28861117.44	28861117.66	0.0088	0.0035
Venus	74307-07-29 11:31 G	28861342.80	28861342.98	28861343.19	0.0088	0.0042

Venus	74308-03-11 00:29 G	28861568.35	28861568.52	28861568.72	0.0088	0.0049
Venus	74308-10-22 13:41 G	28861793.90	28861794.07	28861794.25	0.0088	0.0055
Venus	74309-06-05 02:24 G	28862019.46	28862019.60	28862019.77	0.0088	0.0062
Venus	74310-01-16 15:22 G	28862245.02	28862245.14	28862245.30	0.0088	0.0069
Venus	74310-08-30 04:34 G	28862470.59	28862470.69	28862470.81	0.0088	0.0075
Venus	74311-04-12 17:17 G	28862696.16	28862696.22	28862696.31	0.0088	0.0082
Moon	74317-03-15 12:00 G	28864859.89	28864860.00	28864860.13	0.0088	0.0077
Earth	74317-03-15 13:41 G	28864860.00	28864860.07	28864860.20	0.0088	0.0081 *
Earth	74318-03-18 01:55 G	28865227.39	28865227.58	28865227.80	0.0088	0.0055
Moon	74318-03-18 02:53 G	28865227.44	28865227.62	28865227.84	0.0088	0.0059 *
Earth	74319-03-20 14:10 G	28865594.86	28865595.09	28865595.35	0.0088	0.0029
Moon	74319-03-20 14:53 G	28865594.89	28865595.12	28865595.37	0.0088	0.0026 *
Moon	74320-03-22 01:12 G	28865962.28	28865962.55	28865962.82	0.0088	0.0007
Earth	74320-03-22 02:39 G	28865962.35	28865962.61	28865962.87	0.0088	0.0003 *
Earth	74321-03-24 14:53 G	28866329.87	28866330.12	28866330.37	0.0088	0.0023
Moon	74321-03-24 17:17 G	28866329.98	28866330.22	28866330.47	0.0088	0.0028 *
Moon	74322-03-26 23:03 G	28866697.26	28866697.46	28866697.71	0.0088	0.0046
Earth	74322-03-27 02:24 G	28866697.41	28866697.60	28866697.84	0.0088	0.0050 *
Mercury	74322-09-10 13:55 G	28866865.04	28866865.08	28866865.14	0.0088	0.0083
Mercury	74322-12-07 15:51 G	28866953.09	28866953.16	28866953.25	0.0088	0.0075
Mercury	74323-03-05 18:00 G	28867041.16	28867041.25	28867041.35	0.0088	0.0067
Earth	74323-03-29 14:39 G	28867064.99	28867065.11	28867065.26	0.0088	0.0075
Moon	74323-03-29 17:46 G	28867065.16	28867065.24	28867065.37	0.0088	0.0080 *
Mercury	74323-06-01 19:55 G	28867129.22	28867129.33	28867129.45	0.0088	0.0059
Mercury	74323-08-28 21:51 G	28867217.30	28867217.41	28867217.55	0.0088	0.0051
Mercury	74323-11-25 00:00 G	28867305.37	28867305.50	28867305.64	0.0088	0.0043
Mercury	74324-02-21 01:55 G	28867393.45	28867393.58	28867393.74	0.0088	0.0035
Mercury	74324-05-19 04:19 G	28867481.53	28867481.68	28867481.83	0.0088	0.0026
Mercury	74324-08-15 06:15 G	28867569.61	28867569.76	28867569.92	0.0088	0.0018
Mercury	74324-11-11 08:24 G	28867657.69	28867657.85	28867658.01	0.0088	0.0010

Mercury	74325-02-07 10:34 G	28867745.78	28867745.94	28867746.09	0.0088	0.0002
Mercury	74325-05-06 12:29 G	28867833.87	28867834.02	28867834.18	0.0088	0.0007
Mercury	74325-08-02 14:39 G	28867921.95	28867922.11	28867922.27	0.0088	0.0015
Mercury	74325-10-29 16:48 G	28868010.05	28868010.20	28868010.35	0.0088	0.0024
Mercury	74326-01-25 18:43 G	28868098.14	28868098.28	28868098.44	0.0088	0.0033
Mercury	74326-04-23 20:53 G	28868186.24	28868186.37	28868186.52	0.0088	0.0041
Mercury	74326-07-20 23:17 G	28868274.33	28868274.47	28868274.60	0.0088	0.0049
Mercury	74326-10-17 01:12 G	28868362.44	28868362.55	28868362.67	0.0088	0.0058
Mercury	74327-01-13 03:07 G	28868450.54	28868450.63	28868450.75	0.0088	0.0067
Mercury	74327-04-11 05:31 G	28868538.66	28868538.73	28868538.82	0.0088	0.0075
Mercury	74327-07-08 07:27 G	28868626.78	28868626.81	28868626.87	0.0088	0.0084
Mars	74350-02-05 23:31 G	28876875.23	28876875.48	28876875.75	0.0089	0.0039
Venus	74378-08-02 00:58 G	28887279.54	28887279.54	28887279.57	0.0090	0.0089
Venus	74379-03-15 13:41 G	28887505.01	28887505.07	28887505.17	0.0090	0.0083
Venus	74379-10-27 02:39 G	28887730.51	28887730.61	28887730.75	0.0090	0.0076
Venus	74380-06-08 15:51 G	28887956.04	28887956.16	28887956.31	0.0090	0.0069
Venus	74381-01-20 04:48 G	28888181.56	28888181.70	28888181.87	0.0090	0.0062
Venus	74381-09-02 17:46 G	28888407.08	28888407.24	28888407.43	0.0090	0.0055
Venus	74382-04-16 06:43 G	28888632.62	28888632.78	28888632.99	0.0090	0.0048
Venus	74382-11-27 19:55 G	28888858.15	28888858.33	28888858.54	0.0090	0.0040
Venus	74383-07-11 09:22 G	28889083.69	28889083.89	28889084.09	0.0090	0.0033
Venus	74384-02-21 22:19 G	28889309.22	28889309.43	28889309.64	0.0090	0.0026
Venus	74384-10-04 11:17 G	28889534.76	28889534.97	28889535.19	0.0090	0.0019
Venus	74385-05-18 00:29 G	28889760.31	28889760.52	28889760.74	0.0090	0.0012
Venus	74385-12-29 13:41 G	28889985.85	28889986.07	28889986.29	0.0090	0.0004
Venus	74386-08-12 02:39 G	28890211.40	28890211.61	28890211.83	0.0090	0.0004
Venus	74387-03-25 15:36 G	28890436.94	28890437.15	28890437.37	0.0090	0.0011
Venus	74387-11-06 04:34 G	28890662.49	28890662.69	28890662.91	0.0090	0.0018
Venus	74388-06-18 17:46 G	28890888.04	28890888.24	28890888.46	0.0090	0.0025
Venus	74389-01-30 06:58 G	28891113.59	28891113.79	28891113.99	0.0090	0.0032

Venus	74389-09-12 19:41 G	28891339.14	28891339.32	28891339.53	0.0090	0.0040
Venus	74390-04-26 08:39 G	28891564.69	28891564.86	28891565.06	0.0090	0.0047
Venus	74390-12-07 21:36 G	28891790.25	28891790.40	28891790.59	0.0090	0.0054
Venus	74391-07-21 10:48 G	28892015.81	28892015.95	28892016.12	0.0090	0.0061
Venus	74392-03-02 23:46 G	28892241.37	28892241.49	28892241.65	0.0090	0.0068
Venus	74392-10-14 12:58 G	28892466.93	28892467.04	28892467.17	0.0090	0.0075
Venus	74393-05-28 02:10 G	28892692.52	28892692.59	28892692.69	0.0090	0.0082
Venus	74394-01-08 15:07 G	28892918.12	28892918.13	28892918.18	0.0090	0.0089
Earth	74399-09-15 20:24 G	28894994.20	28894994.35	28894994.55	0.0090	0.0066
Moon	74399-09-15 21:07 G	28894994.22	28894994.38	28894994.58	0.0090	0.0065 *
Earth	74400-09-17 07:55 G	28895361.61	28895361.83	28895362.07	0.0090	0.0039
Moon	74400-09-17 08:10 G	28895361.63	28895361.84	28895362.07	0.0090	0.0040 *
Moon	74401-09-19 17:31 G	28895728.98	28895729.23	28895729.50	0.0090	0.0011
Earth	74401-09-19 19:12 G	28895729.05	28895729.30	28895729.56	0.0090	0.0012 *
Earth	74402-09-22 06:29 G	28896096.52	28896096.77	28896097.02	0.0090	0.0015
Moon	74402-09-22 09:07 G	28896096.64	28896096.88	28896097.13	0.0090	0.0015 *
Moon	74403-09-24 14:24 G	28896463.88	28896464.10	28896464.33	0.0090	0.0043
Earth	74403-09-24 17:17 G	28896464.01	28896464.22	28896464.46	0.0090	0.0042 *
Mercury	74404-06-28 11:46 G	28896741.98	28896741.99	28896742.01	0.0090	0.0089
Mercury	74404-09-24 13:55 G	28896830.02	28896830.08	28896830.16	0.0090	0.0080
Earth	74404-09-26 04:05 G	28896831.53	28896831.67	28896831.86	0.0090	0.0069
Moon	74404-09-26 07:55 G	28896831.68	28896831.83	28896832.02	0.0090	0.0067 *
Mercury	74404-12-21 16:19 G	28896918.09	28896918.18	28896918.28	0.0090	0.0071
Mercury	74405-03-19 18:29 G	28897006.16	28897006.27	28897006.39	0.0090	0.0062
Mercury	74405-06-15 20:39 G	28897094.24	28897094.36	28897094.50	0.0090	0.0053
Mercury	74405-09-11 23:03 G	28897182.33	28897182.46	28897182.61	0.0090	0.0044
Mercury	74405-12-09 01:12 G	28897270.41	28897270.55	28897270.71	0.0090	0.0035
Mercury	74406-03-07 03:36 G	28897358.50	28897358.65	28897358.80	0.0090	0.0026
Mercury	74406-06-03 05:46 G	28897446.59	28897446.74	28897446.90	0.0090	0.0017
Mercury	74406-08-30 07:55 G	28897534.68	28897534.83	28897534.99	0.0090	0.0009

Mercury	74406-11-26 10:19 G	28897622.77	28897622.93	28897623.09	0.0090	0.0001
Mercury	74407-02-22 12:29 G	28897710.86	28897711.02	28897711.18	0.0090	0.0010
Mercury	74407-05-21 14:39 G	28897798.96	28897799.11	28897799.26	0.0090	0.0019
Mercury	74407-08-17 16:34 G	28897887.05	28897887.19	28897887.35	0.0090	0.0028
Mercury	74407-11-13 18:43 G	28897975.15	28897975.28	28897975.43	0.0090	0.0036
Mercury	74408-02-09 20:53 G	28898063.24	28898063.37	28898063.51	0.0090	0.0045
Mercury	74408-05-07 23:03 G	28898151.34	28898151.46	28898151.59	0.0089	0.0054
Mercury	74408-08-04 00:58 G	28898239.44	28898239.54	28898239.66	0.0089	0.0062
Mercury	74408-10-31 03:07 G	28898327.55	28898327.63	28898327.73	0.0089	0.0071
Mercury	74409-01-27 05:03 G	28898415.66	28898415.71	28898415.80	0.0089	0.0080
Mercury	74409-04-25 07:12 G	28898503.79	28898503.80	28898503.84	0.0089	0.0088
Mars	74431-12-06 18:43 G	28906763.96	28906764.28	28906764.63	0.0089	0.0023
Jupiter	74460-05-02 17:46 G	28917139.06	28917139.24	28917139.54	0.0088	0.0079
Venus	74460-09-18 03:07 G	28917277.58	28917277.63	28917277.72	0.0088	0.0083
Venus	74461-05-01 16:34 G	28917503.09	28917503.19	28917503.31	0.0088	0.0076
Venus	74461-12-13 06:00 G	28917728.61	28917728.75	28917728.88	0.0088	0.0069
Venus	74462-07-26 18:29 G	28917954.14	28917954.27	28917954.45	0.0088	0.0063
Venus	74463-03-09 07:41 G	28918179.66	28918179.82	28918180.00	0.0088	0.0056
Venus	74463-10-20 20:39 G	28918405.19	28918405.36	28918405.56	0.0088	0.0049
Venus	74464-06-02 09:51 G	28918630.73	28918630.91	28918631.12	0.0088	0.0042
Venus	74465-01-13 23:03 G	28918856.26	28918856.46	28918856.67	0.0088	0.0035
Venus	74465-08-27 12:00 G	28919081.79	28919082.00	28919082.21	0.0088	0.0028
Venus	74466-04-10 00:58 G	28919307.33	28919307.54	28919307.76	0.0088	0.0021
Venus	74466-11-21 13:55 G	28919532.87	28919533.08	28919533.31	0.0088	0.0015
Venus	74467-07-05 02:53 G	28919758.41	28919758.62	28919758.85	0.0088	0.0008
Venus	74468-02-15 15:51 G	28919983.94	28919984.16	28919984.39	0.0088	0.0002
Venus	74468-09-28 04:48 G	28920209.48	28920209.70	28920209.92	0.0088	0.0007
Venus	74469-05-11 17:31 G	28920435.02	28920435.23	28920435.46	0.0088	0.0014
Venus	74469-12-23 06:43 G	28920660.57	28920660.78	28920661.00	0.0088	0.0021
Venus	74470-08-05 19:55 G	28920886.12	28920886.33	28920886.54	0.0088	0.0027

Venus	74471-03-19 08:39 G	28921111.66	28921111.86	28921112.07	0.0088	0.0034
Venus	74471-10-30 21:36 G	28921337.21	28921337.40	28921337.60	0.0088	0.0041
Venus	74472-06-12 10:34 G	28921562.76	28921562.94	28921563.14	0.0088	0.0048
Venus	74473-01-23 23:31 G	28921788.32	28921788.48	28921788.67	0.0088	0.0055
Venus	74473-09-06 12:15 G	28922013.87	28922014.01	28922014.19	0.0088	0.0062
Venus	74474-04-20 01:41 G	28922239.43	28922239.57	28922239.71	0.0088	0.0068
Venus	74474-12-01 14:24 G	28922465.00	28922465.10	28922465.23	0.0088	0.0075
Venus	74475-07-15 03:07 G	28922690.58	28922690.63	28922690.73	0.0088	0.0082
Earth	74482-03-17 09:07 G	28925127.74	28925127.88	28925128.08	0.0088	0.0066
Moon	74482-03-17 10:05 G	28925127.79	28925127.92	28925128.10	0.0088	0.0069 *
Moon	74483-03-19 19:12 G	28925495.06	28925495.30	28925495.55	0.0088	0.0036
Earth	74483-03-19 21:36 G	28925495.18	28925495.40	28925495.65	0.0088	0.0040 *
Earth	74484-03-21 09:51 G	28925862.66	28925862.91	28925863.18	0.0088	0.0014
Moon	74484-03-21 12:43 G	28925862.79	28925863.03	28925863.29	0.0088	0.0017 *
Moon	74485-03-23 18:43 G	28926230.02	28926230.28	28926230.54	0.0088	0.0015
Earth	74485-03-23 22:19 G	28926230.17	28926230.43	28926230.69	0.0088	0.0012 *
Earth	74486-03-26 10:19 G	28926597.69	28926597.93	28926598.17	0.0088	0.0038
Moon	74486-03-26 13:41 G	28926597.84	28926598.07	28926598.32	0.0088	0.0035 *
Mercury	74487-03-11 10:48 G	28926947.94	28926947.95	28926947.99	0.0088	0.0087
Moon	74487-03-28 18:43 G	28926965.14	28926965.28	28926965.48	0.0088	0.0067
Earth	74487-03-28 22:19 G	28926965.27	28926965.43	28926965.62	0.0088	0.0064 *
Mercury	74487-06-07 12:43 G	28927035.98	28927036.03	28927036.12	0.0088	0.0079
Mercury	74487-09-03 14:53 G	28927124.04	28927124.12	28927124.22	0.0088	0.0071
Mercury	74487-11-30 16:48 G	28927212.11	28927212.20	28927212.32	0.0088	0.0063
Mercury	74488-02-26 19:12 G	28927300.18	28927300.30	28927300.42	0.0088	0.0054
Moon	74488-03-30 13:27 G	28927333.06	28927333.06	28927333.09	0.0088	0.0088
Mercury	74488-05-24 21:07 G	28927388.25	28927388.38	28927388.52	0.0088	0.0046
Mercury	74488-08-20 23:03 G	28927476.33	28927476.46	28927476.61	0.0088	0.0038
Mercury	74488-11-17 01:12 G	28927564.41	28927564.55	28927564.70	0.0088	0.0030
Mercury	74489-02-13 03:07 G	28927652.49	28927652.63	28927652.79	0.0088	0.0022



Mercury	74489-05-12 05:17 G	28927740.57	28927740.72	28927740.88	0.0088	0.0013
Mercury	74489-08-08 07:27 G	28927828.65	28927828.81	28927828.97	0.0088	0.0005
Mercury	74489-11-04 09:36 G	28927916.74	28927916.90	28927917.05	0.0088	0.0004
Mercury	74490-01-31 11:31 G	28928004.83	28928004.98	28928005.14	0.0088	0.0012
Mercury	74490-04-29 13:41 G	28928092.92	28928093.07	28928093.23	0.0088	0.0020
Mercury	74490-07-26 15:36 G	28928181.01	28928181.15	28928181.31	0.0088	0.0029
Mercury	74490-10-22 17:46 G	28928269.10	28928269.24	28928269.39	0.0088	0.0037
Mercury	74491-01-18 19:55 G	28928357.20	28928357.33	28928357.47	0.0088	0.0046
Mercury	74491-04-16 22:05 G	28928445.30	28928445.42	28928445.55	0.0088	0.0054
Mercury	74491-07-14 00:00 G	28928533.41	28928533.50	28928533.63	0.0088	0.0063
Mercury	74491-10-10 02:24 G	28928621.51	28928621.60	28928621.70	0.0088	0.0071
Mercury	74492-01-06 04:19 G	28928709.63	28928709.68	28928709.76	0.0088	0.0080
Mars	74515-08-17 02:53 G	28937332.38	28937332.62	28937332.89	0.0089	0.0041
Venus	74543-06-18 00:15 G	28947499.45	28947499.51	28947499.59	0.0090	0.0084
Venus	74544-01-29 13:12 G	28947724.95	28947725.05	28947725.17	0.0090	0.0077
Venus	74544-09-11 02:10 G	28947950.46	28947950.59	28947950.73	0.0090	0.0070
Venus	74545-04-24 15:07 G	28948175.98	28948176.13	28948176.29	0.0090	0.0063
Venus	74545-12-06 04:05 G	28948401.51	28948401.67	28948401.85	0.0090	0.0056
Venus	74546-07-19 17:03 G	28948627.04	28948627.21	28948627.40	0.0090	0.0049
Venus	74547-03-02 06:00 G	28948852.57	28948852.75	28948852.95	0.0090	0.0042
Venus	74547-10-13 18:58 G	28949078.10	28949078.29	28949078.50	0.0090	0.0034
Venus	74548-05-26 08:24 G	28949303.64	28949303.85	28949304.06	0.0090	0.0027
Venus	74549-01-06 21:22 G	28949529.18	28949529.39	28949529.61	0.0090	0.0020
Venus	74549-08-20 10:19 G	28949754.72	28949754.93	28949755.15	0.0090	0.0013
Venus	74550-04-02 23:31 G	28949980.26	28949980.48	28949980.70	0.0090	0.0005
Venus	74550-11-14 12:43 G	28950205.81	28950206.03	28950206.24	0.0090	0.0003
Venus	74551-06-28 01:41 G	28950431.36	28950431.57	28950431.79	0.0090	0.0010
Venus	74552-02-08 14:39 G	28950656.91	28950657.11	28950657.33	0.0090	0.0017
Venus	74552-09-21 03:51 G	28950882.45	28950882.66	28950882.87	0.0090	0.0024
Venus	74553-05-04 16:48 G	28951108.01	28951108.20	28951108.41	0.0090	0.0031

Venus	74553-12-16 05:46 G	28951333.56	28951333.74	28951333.95	0.0090	0.0039
Venus	74554-07-29 18:58 G	28951559.11	28951559.29	28951559.49	0.0090	0.0046
Venus	74555-03-12 07:55 G	28951784.67	28951784.83	28951785.02	0.0090	0.0053
Venus	74555-10-23 21:07 G	28952010.23	28952010.38	28952010.55	0.0090	0.0060
Venus	74556-06-05 10:34 G	28952235.79	28952235.94	28952236.08	0.0090	0.0067
Venus	74557-01-16 23:03 G	28952461.36	28952461.46	28952461.60	0.0090	0.0075
Venus	74557-08-30 12:00 G	28952686.94	28952687.00	28952687.12	0.0090	0.0082
Venus	74558-04-13 00:58 G	28952912.54	28952912.54	28952912.60	0.0090	0.0089
Earth	74563-09-16 05:46 G	28954894.63	28954894.74	28954894.88	0.0090	0.0077
Moon	74563-09-16 07:12 G	28954894.66	28954894.80	28954894.95	0.0090	0.0072 *
Moon	74564-09-17 14:39 G	28955261.93	28955262.11	28955262.34	0.0090	0.0055
Earth	74564-09-17 17:17 G	28955262.02	28955262.22	28955262.44	0.0090	0.0050 *
Earth	74565-09-20 04:19 G	28955629.45	28955629.68	28955629.94	0.0090	0.0024
Moon	74565-09-20 07:12 G	28955629.57	28955629.80	28955630.05	0.0090	0.0019 *
Moon	74566-09-22 12:15 G	28955996.76	28955997.01	28955997.27	0.0090	0.0002
Earth	74566-09-22 15:51 G	28955996.91	28955997.16	28955997.42	0.0090	0.0004 *
Earth	74567-09-25 02:39 G	28956364.38	28956364.61	28956364.86	0.0090	0.0030
Moon	74567-09-25 06:15 G	28956364.53	28956364.76	28956365.00	0.0090	0.0035 *
Moon	74568-09-26 10:48 G	28956731.75	28956731.95	28956732.16	0.0090	0.0052
Earth	74568-09-26 13:55 G	28956731.90	28956732.08	28956732.29	0.0090	0.0057 *
Mercury	74569-03-26 10:48 G	28956912.90	28956912.95	28956913.01	0.0090	0.0084
Mercury	74569-06-22 12:58 G	28957000.96	28957001.04	28957001.14	0.0090	0.0075
Mercury	74569-09-18 15:22 G	28957089.04	28957089.14	28957089.25	0.0090	0.0066
Earth	74569-09-29 00:29 G	28957099.46	28957099.52	28957099.64	0.0090	0.0084
Moon	74569-09-29 03:22 G	28957099.60	28957099.64	28957099.69	0.0090	0.0088 *
Mercury	74569-12-15 17:31 G	28957177.12	28957177.23	28957177.36	0.0090	0.0057
Mercury	74570-03-13 19:55 G	28957265.20	28957265.33	28957265.47	0.0090	0.0048
Mercury	74570-06-09 22:05 G	28957353.29	28957353.42	28957353.57	0.0090	0.0039
Mercury	74570-09-06 00:29 G	28957441.37	28957441.52	28957441.67	0.0090	0.0030
Mercury	74570-12-03 02:39 G	28957529.46	28957529.61	28957529.77	0.0090	0.0021

Mercury	74571-03-01 05:03 G	28957617.55	28957617.71	28957617.86	0.0090	0.0012
Mercury	74571-05-28 07:12 G	28957705.64	28957705.80	28957705.96	0.0090	0.0003
Mercury	74571-08-24 09:22 G	28957793.73	28957793.89	28957794.05	0.0090	0.0006
Mercury	74571-11-20 11:31 G	28957881.83	28957881.98	28957882.14	0.0090	0.0015
Mercury	74572-02-16 13:41 G	28957969.92	28957970.07	28957970.22	0.0090	0.0024
Mercury	74572-05-14 15:36 G	28958058.02	28958058.15	28958058.31	0.0090	0.0033
Mercury	74572-08-10 18:00 G	28958146.11	28958146.25	28958146.39	0.0090	0.0041
Mercury	74572-11-06 19:55 G	28958234.21	28958234.33	28958234.47	0.0090	0.0050
Mercury	74573-02-02 22:05 G	28958322.31	28958322.42	28958322.55	0.0090	0.0058
Mercury	74573-05-02 00:15 G	28958410.41	28958410.51	28958410.62	0.0090	0.0067
Mercury	74573-07-29 02:10 G	28958498.52	28958498.59	28958498.69	0.0090	0.0076
Mercury	74573-10-25 04:34 G	28958586.64	28958586.69	28958586.74	0.0090	0.0084
Mars	74595-07-21 01:41 G	28966525.30	28966525.57	28966525.87	0.0089	0.0048
Venus	74624-12-22 13:12 G	28977272.00	28977272.05	28977272.11	0.0088	0.0084
Venus	74625-08-05 01:55 G	28977497.50	28977497.58	28977497.70	0.0088	0.0078
Venus	74626-03-18 15:07 G	28977723.02	28977723.13	28977723.28	0.0088	0.0071
Venus	74626-10-30 04:19 G	28977948.54	28977948.68	28977948.84	0.0088	0.0064
Venus	74627-06-12 17:31 G	28978174.07	28978174.23	28978174.41	0.0088	0.0057
Venus	74628-01-24 06:43 G	28978399.60	28978399.78	28978399.96	0.0088	0.0050
Venus	74628-09-05 19:41 G	28978625.13	28978625.32	28978625.52	0.0088	0.0043
Venus	74629-04-19 08:53 G	28978850.67	28978850.87	28978851.07	0.0088	0.0036
Venus	74629-11-30 21:36 G	28979076.21	28979076.40	28979076.63	0.0088	0.0030
Venus	74630-07-14 10:48 G	28979301.74	28979301.95	28979302.18	0.0088	0.0023
Venus	74631-02-24 23:46 G	28979527.28	28979527.49	28979527.72	0.0088	0.0016
Venus	74631-10-08 12:43 G	28979752.82	28979753.03	28979753.26	0.0088	0.0009
Venus	74632-05-21 01:55 G	28979978.36	28979978.58	28979978.80	0.0088	0.0001
Venus	74633-01-01 14:53 G	28980203.90	28980204.12	28980204.35	0.0088	0.0006
Venus	74633-08-15 03:51 G	28980429.44	28980429.66	28980429.88	0.0088	0.0013
Venus	74634-03-28 16:34 G	28980654.98	28980655.19	28980655.42	0.0088	0.0020
Venus	74634-11-09 05:31 G	28980880.53	28980880.73	28980880.95	0.0088	0.0027

Venus	74635-06-22 18:29 G	28981106.08	28981106.27	28981106.49	0.0088	0.0034
Venus	74636-02-03 07:12 G	28981331.62	28981331.80	28981332.02	0.0088	0.0041
Venus	74636-09-15 20:10 G	28981557.17	28981557.34	28981557.55	0.0088	0.0048
Venus	74637-04-29 09:36 G	28981782.73	28981782.90	28981783.07	0.0088	0.0054
Venus	74637-12-10 22:34 G	28982008.29	28982008.44	28982008.60	0.0088	0.0061
Venus	74638-07-24 11:17 G	28982233.85	28982233.97	28982234.13	0.0088	0.0068
Venus	74639-03-07 00:00 G	28982459.41	28982459.50	28982459.64	0.0088	0.0075
Venus	74639-10-18 12:43 G	28982684.98	28982685.03	28982685.14	0.0088	0.0082
Moon	74646-03-18 14:24 G	28985027.96	28985028.10	28985028.25	0.0088	0.0073
Earth	74646-03-18 16:19 G	28985028.08	28985028.18	28985028.33	0.0088	0.0077 *
Earth	74647-03-21 04:34 G	28985395.49	28985395.69	28985395.92	0.0088	0.0051
Moon	74647-03-21 08:10 G	28985395.65	28985395.84	28985396.05	0.0088	0.0054 *
Moon	74648-03-22 13:12 G	28985762.81	28985763.05	28985763.32	0.0088	0.0023
Earth	74648-03-22 17:03 G	28985762.96	28985763.21	28985763.46	0.0088	0.0025 *
Earth	74649-03-25 04:48 G	28986130.44	28986130.70	28986130.96	0.0088	0.0001
Moon	74649-03-25 08:24 G	28986130.59	28986130.85	28986131.12	0.0088	0.0004 *
Moon	74650-03-27 13:55 G	28986497.85	28986498.08	28986498.33	0.0088	0.0030
Earth	74650-03-27 16:48 G	28986497.96	28986498.20	28986498.46	0.0088	0.0027 *
Earth	74651-03-30 04:34 G	28986865.51	28986865.69	28986865.93	0.0088	0.0053
Moon	74651-03-30 06:58 G	28986865.58	28986865.79	28986866.02	0.0088	0.0049 *
Mercury	74651-12-08 09:36 G	28987118.87	28987118.90	28987118.97	0.0088	0.0083
Mercury	74652-03-05 11:46 G	28987206.92	28987206.99	28987207.08	0.0088	0.0075
Moon	74652-03-31 15:51 G	28987233.09	28987233.16	28987233.26	0.0088	0.0082
Earth	74652-03-31 17:17 G	28987233.11	28987233.22	28987233.34	0.0088	0.0078 *
Mercury	74652-06-01 13:41 G	28987294.99	28987295.07	28987295.18	0.0088	0.0067
Mercury	74652-08-28 15:36 G	28987383.05	28987383.15	28987383.28	0.0088	0.0059
Mercury	74652-11-24 18:00 G	28987471.12	28987471.25	28987471.38	0.0088	0.0050
Mercury	74653-02-20 19:55 G	28987559.20	28987559.33	28987559.47	0.0088	0.0042
Mercury	74653-05-19 22:05 G	28987647.28	28987647.42	28987647.56	0.0088	0.0034
Mercury	74653-08-16 00:00 G	28987735.35	28987735.50	28987735.65	0.0088	0.0026

Mercury	74653-11-12 01:55 G	28987823.44	28987823.58	28987823.74	0.0088	0.0018
Mercury	74654-02-08 04:05 G	28987911.52	28987911.67	28987911.83	0.0088	0.0009
Mercury	74654-05-07 06:15 G	28987999.60	28987999.76	28987999.92	0.0088	0.0001
Mercury	74654-08-03 08:24 G	28988087.69	28988087.85	28988088.00	0.0088	0.0008
Mercury	74654-10-30 10:19 G	28988175.78	28988175.93	28988176.09	0.0088	0.0016
Mercury	74655-01-26 12:29 G	28988263.87	28988264.02	28988264.17	0.0088	0.0024
Mercury	74655-04-24 14:24 G	28988351.96	28988352.10	28988352.26	0.0088	0.0033
Mercury	74655-07-21 16:48 G	28988440.06	28988440.20	28988440.34	0.0088	0.0041
Mercury	74655-10-17 18:43 G	28988528.16	28988528.28	28988528.42	0.0088	0.0050
Mercury	74656-01-13 20:53 G	28988616.26	28988616.37	28988616.49	0.0088	0.0058
Mercury	74656-04-10 22:48 G	28988704.36	28988704.45	28988704.57	0.0088	0.0067
Mercury	74656-07-08 01:12 G	28988792.47	28988792.55	28988792.64	0.0088	0.0075
Mercury	74656-10-04 03:07 G	28988880.60	28988880.63	28988880.69	0.0088	0.0084
Mars	74679-04-02 17:03 G	28997095.94	28997096.21	28997096.50	0.0089	0.0019
Venus	74707-09-21 09:51 G	29007493.87	29007493.91	29007493.99	0.0090	0.0086
Venus	74708-05-03 23:03 G	29007719.37	29007719.46	29007719.58	0.0090	0.0079
Venus	74708-12-15 12:00 G	29007944.88	29007945.00	29007945.14	0.0090	0.0072
Venus	74709-07-29 00:43 G	29008170.40	29008170.53	29008170.70	0.0090	0.0065
Venus	74710-03-11 13:41 G	29008395.92	29008396.07	29008396.26	0.0090	0.0058
Venus	74710-10-23 02:39 G	29008621.45	29008621.61	29008621.81	0.0090	0.0051
Venus	74711-06-05 16:05 G	29008846.98	29008847.17	29008847.37	0.0090	0.0043
Venus	74712-01-17 05:03 G	29009072.52	29009072.71	29009072.92	0.0090	0.0036
Venus	74712-08-29 17:46 G	29009298.05	29009298.24	29009298.46	0.0090	0.0029
Venus	74713-04-12 06:58 G	29009523.58	29009523.79	29009524.01	0.0090	0.0021
Venus	74713-11-23 20:10 G	29009749.12	29009749.34	29009749.55	0.0090	0.0014
Venus	74714-07-07 09:07 G	29009974.67	29009974.88	29009975.10	0.0090	0.0007
Venus	74715-02-17 22:19 G	29010200.21	29010200.43	29010200.65	0.0090	0.0001
Venus	74715-10-01 11:17 G	29010425.75	29010425.97	29010426.19	0.0090	0.0008
Venus	74716-05-14 00:15 G	29010651.31	29010651.51	29010651.74	0.0090	0.0016
Venus	74716-12-25 13:27 G	29010876.86	29010877.06	29010877.28	0.0090	0.0023

Venus	74717-08-08 02:24 G	29011102.41	29011102.60	29011102.82	0.0090	0.0031
Venus	74718-03-21 15:22 G	29011327.96	29011328.14	29011328.35	0.0090	0.0038
Venus	74718-11-02 04:34 G	29011553.51	29011553.69	29011553.89	0.0090	0.0045
Venus	74719-06-15 17:46 G	29011779.07	29011779.24	29011779.43	0.0090	0.0052
Venus	74720-01-27 06:29 G	29012004.63	29012004.77	29012004.96	0.0090	0.0060
Venus	74720-09-08 19:41 G	29012230.19	29012230.32	29012230.48	0.0090	0.0067
Venus	74721-04-22 08:39 G	29012455.76	29012455.86	29012456.00	0.0090	0.0074
Venus	74721-12-03 21:51 G	29012681.33	29012681.41	29012681.52	0.0090	0.0081
Venus	74722-07-17 11:03 G	29012906.93	29012906.96	29012907.02	0.0090	0.0088
Moon	74727-09-17 10:05 G	29014794.90	29014794.92	29014795.01	0.0090	0.0088
Earth	74727-09-17 12:58 G	29014795.03	29014795.04	29014795.11	0.0090	0.0089
Earth	74728-09-19 00:43 G	29015162.36	29015162.53	29015162.73	0.0090	0.0062
Moon	74728-09-19 03:51 G	29015162.50	29015162.66	29015162.86	0.0090	0.0063 *
Moon	74729-09-21 08:39 G	29015529.64	29015529.86	29015530.11	0.0090	0.0036
Earth	74729-09-21 12:29 G	29015529.79	29015530.02	29015530.26	0.0090	0.0035 *
Earth	74730-09-23 23:46 G	29015897.24	29015897.49	29015897.75	0.0090	0.0008
Moon	74730-09-24 03:22 G	29015897.38	29015897.64	29015897.89	0.0090	0.0009 *
Moon	74731-09-26 08:24 G	29016264.62	29016264.85	29016265.10	0.0090	0.0019
Earth	74731-09-26 11:03 G	29016264.72	29016264.96	29016265.21	0.0090	0.0018 *
Earth	74732-09-27 22:19 G	29016632.21	29016632.43	29016632.65	0.0090	0.0045
Moon	74732-09-28 00:15 G	29016632.30	29016632.51	29016632.75	0.0090	0.0046 *
Mercury	74733-09-26 07:12 G	29016995.79	29016995.80	29016995.83	0.0090	0.0089
Moon	74733-09-30 08:39 G	29016999.73	29016999.86	29017000.02	0.0090	0.0072
Earth	74733-09-30 09:07 G	29016999.75	29016999.88	29017000.05	0.0090	0.0072 *
Mercury	74733-12-23 09:22 G	29017083.83	29017083.89	29017083.98	0.0090	0.0080
Mercury	74734-03-21 11:46 G	29017171.90	29017171.99	29017172.10	0.0090	0.0070
Mercury	74734-06-17 14:24 G	29017259.98	29017260.10	29017260.21	0.0090	0.0061
Mercury	74734-09-13 16:34 G	29017348.06	29017348.19	29017348.32	0.0090	0.0052
Mercury	74734-12-10 18:58 G	29017436.15	29017436.29	29017436.43	0.0090	0.0043
Mercury	74735-03-08 21:07 G	29017524.23	29017524.38	29017524.53	0.0090	0.0034

Mercury	74735-06-04 23:17 G	29017612.32	29017612.47	29017612.63	0.0090	0.0025
Mercury	74735-09-01 01:27 G	29017700.41	29017700.56	29017700.72	0.0090	0.0017
Mercury	74735-11-28 03:51 G	29017788.50	29017788.66	29017788.82	0.0090	0.0007
Mercury	74736-02-24 06:00 G	29017876.59	29017876.75	29017876.91	0.0090	0.0002
Mercury	74736-05-22 08:10 G	29017964.69	29017964.84	29017965.00	0.0090	0.0011
Mercury	74736-08-18 10:19 G	29018052.78	29018052.93	29018053.09	0.0090	0.0020
Mercury	74736-11-14 12:29 G	29018140.88	29018141.02	29018141.18	0.0090	0.0028
Mercury	74737-02-10 14:39 G	29018228.97	29018229.11	29018229.26	0.0090	0.0037
Mercury	74737-05-09 16:48 G	29018317.07	29018317.20	29018317.34	0.0090	0.0046
Mercury	74737-08-05 18:43 G	29018405.17	29018405.28	29018405.42	0.0090	0.0055
Mercury	74737-11-01 21:07 G	29018493.27	29018493.38	29018493.49	0.0090	0.0063
Mercury	74738-01-28 23:03 G	29018581.38	29018581.46	29018581.56	0.0090	0.0072
Mercury	74738-04-27 01:12 G	29018669.49	29018669.55	29018669.63	0.0090	0.0080
Mercury	74738-07-24 03:07 G	29018757.63	29018757.63	29018757.67	0.0090	0.0089
Mars	74761-01-29 16:05 G	29026982.90	29026983.17	29026983.48	0.0089	0.0048
Venus	74789-03-26 22:19 G	29037266.40	29037266.43	29037266.49	0.0088	0.0086
Venus	74789-11-07 11:31 G	29037491.90	29037491.98	29037492.09	0.0088	0.0079
Venus	74790-06-21 00:43 G	29037717.41	29037717.53	29037717.66	0.0088	0.0072
Venus	74791-02-01 13:55 G	29037942.93	29037943.08	29037943.23	0.0088	0.0065
Venus	74791-09-15 02:24 G	29038168.46	29038168.60	29038168.79	0.0088	0.0059
Venus	74792-04-27 15:36 G	29038393.99	29038394.15	29038394.35	0.0088	0.0052
Venus	74792-12-09 04:48 G	29038619.53	29038619.70	29038619.91	0.0088	0.0045
Venus	74793-07-22 18:00 G	29038845.06	29038845.25	29038845.46	0.0088	0.0038
Venus	74794-03-05 06:58 G	29039070.60	29039070.79	29039071.01	0.0088	0.0031
Venus	74794-10-16 20:10 G	29039296.13	29039296.34	29039296.56	0.0088	0.0024
Venus	74795-05-30 09:07 G	29039521.67	29039521.88	29039522.11	0.0088	0.0017
Venus	74796-01-10 22:19 G	29039747.21	29039747.43	29039747.66	0.0088	0.0010
Venus	74796-08-23 11:17 G	29039972.75	29039972.97	29039973.20	0.0088	0.0003
Venus	74797-04-06 00:15 G	29040198.29	29040198.51	29040198.74	0.0088	0.0005
Venus	74797-11-17 13:12 G	29040423.84	29040424.05	29040424.28	0.0088	0.0012

Venus	74798-07-01 02:10 G	29040649.38	29040649.59	29040649.81	0.0088	0.0019
Venus	74799-02-11 14:53 G	29040874.92	29040875.12	29040875.35	0.0088	0.0026
Venus	74799-09-25 03:51 G	29041100.46	29041100.66	29041100.88	0.0088	0.0033
Venus	74800-05-07 16:48 G	29041326.01	29041326.20	29041326.41	0.0088	0.0040
Venus	74800-12-19 05:46 G	29041551.57	29041551.74	29041551.94	0.0088	0.0047
Venus	74801-08-01 18:29 G	29041777.12	29041777.27	29041777.47	0.0088	0.0054
Venus	74802-03-15 07:55 G	29042002.67	29042002.83	29042002.99	0.0088	0.0060
Venus	74802-10-26 20:39 G	29042228.23	29042228.36	29042228.51	0.0088	0.0067
Venus	74803-06-09 09:22 G	29042453.79	29042453.89	29042454.03	0.0088	0.0074
Venus	74804-01-20 22:19 G	29042679.37	29042679.43	29042679.54	0.0088	0.0081
Venus	74804-09-02 11:31 G	29042904.98	29042904.98	29042905.01	0.0088	0.0087
Earth	74810-03-18 23:03 G	29044928.46	29044928.46	29044928.51	0.0088	0.0087
Moon	74810-03-19 02:10 G	29044928.55	29044928.59	29044928.70	0.0088	0.0084
Moon	74811-03-21 07:55 G	29045295.66	29045295.83	29045296.00	0.0088	0.0066
Earth	74811-03-21 11:17 G	29045295.80	29045295.97	29045296.17	0.0088	0.0062 *
Earth	74812-03-22 23:03 G	29045663.24	29045663.46	29045663.72	0.0088	0.0037
Moon	74812-03-23 02:39 G	29045663.36	29045663.61	29045663.86	0.0088	0.0032 *
Moon	74813-03-25 08:53 G	29046030.62	29046030.87	29046031.13	0.0088	0.0014
Earth	74813-03-25 11:31 G	29046030.72	29046030.98	29046031.24	0.0088	0.0011 *
Earth	74814-03-27 23:31 G	29046398.22	29046398.48	29046398.74	0.0088	0.0015
Moon	74814-03-28 00:58 G	29046398.28	29046398.54	29046398.81	0.0088	0.0019 *
Earth	74815-03-30 11:31 G	29046765.76	29046765.98	29046766.22	0.0088	0.0041
Moon	74815-03-30 11:17 G	29046765.76	29046765.97	29046766.22	0.0088	0.0038 *
Moon	74816-03-31 22:34 G	29047133.30	29047133.44	29047133.62	0.0088	0.0070
Earth	74816-03-31 23:17 G	29047133.32	29047133.47	29047133.66	0.0088	0.0067 *
Mercury	74816-06-08 06:29 G	29047201.77	29047201.77	29047201.81	0.0088	0.0087
Mercury	74816-09-04 08:39 G	29047289.81	29047289.86	29047289.94	0.0088	0.0079
Mercury	74816-12-01 10:34 G	29047377.86	29047377.94	29047378.04	0.0088	0.0071
Mercury	74817-02-27 12:29 G	29047465.93	29047466.02	29047466.14	0.0088	0.0063
Mercury	74817-05-26 14:39 G	29047554.00	29047554.11	29047554.24	0.0088	0.0055



Mercury	74817-08-22 16:34 G	29047642.07	29047642.19	29047642.33	0.0088	0.0047
Mercury	74817-11-18 18:29 G	29047730.15	29047730.27	29047730.42	0.0088	0.0039
Mercury	74818-02-14 20:53 G	29047818.22	29047818.37	29047818.52	0.0088	0.0030
Mercury	74818-05-13 22:48 G	29047906.30	29047906.45	29047906.60	0.0088	0.0022
Mercury	74818-08-10 00:58 G	29047994.38	29047994.54	29047994.69	0.0088	0.0014
Mercury	74818-11-06 02:53 G	29048082.47	29048082.62	29048082.78	0.0088	0.0006
Mercury	74819-02-02 05:03 G	29048170.55	29048170.71	29048170.87	0.0088	0.0003
Mercury	74819-05-01 06:58 G	29048258.64	29048258.79	29048258.95	0.0088	0.0012
Mercury	74819-07-28 09:07 G	29048346.73	29048346.88	29048347.04	0.0088	0.0020
Mercury	74819-10-24 11:17 G	29048434.82	29048434.97	29048435.12	0.0088	0.0028
Mercury	74820-01-20 13:12 G	29048522.91	29048523.05	29048523.20	0.0088	0.0037
Mercury	74820-04-17 15:22 G	29048611.01	29048611.14	29048611.28	0.0088	0.0045
Mercury	74820-07-14 17:17 G	29048699.11	29048699.22	29048699.36	0.0088	0.0054
Mercury	74820-10-10 19:27 G	29048787.21	29048787.31	29048787.43	0.0088	0.0062
Mercury	74821-01-06 21:22 G	29048875.32	29048875.39	29048875.51	0.0088	0.0071
Mercury	74821-04-04 23:46 G	29048963.43	29048963.49	29048963.57	0.0088	0.0079
Mercury	74821-07-02 01:55 G	29049051.58	29049051.58	29049051.60	0.0088	0.0088
Mars	74842-11-17 03:51 G	29056859.54	29056859.66	29056859.80	0.0088	0.0079
Mars	74844-10-10 18:00 G	29057553.05	29057553.25	29057553.49	0.0089	0.0059
Jupiter	74869-10-10 16:34 G	29066683.88	29066684.19	29066684.56	0.0089	0.0070
Venus	74871-12-23 19:12 G	29067488.27	29067488.30	29067488.35	0.0089	0.0088
Venus	74872-08-05 08:10 G	29067713.76	29067713.84	29067713.94	0.0090	0.0081
Venus	74873-03-18 20:53 G	29067939.27	29067939.37	29067939.51	0.0090	0.0074
Venus	74873-10-30 09:51 G	29068164.79	29068164.91	29068165.08	0.0090	0.0067
Venus	74874-06-12 22:48 G	29068390.31	29068390.45	29068390.64	0.0090	0.0060
Venus	74875-01-24 12:15 G	29068615.84	29068616.01	29068616.19	0.0090	0.0052
Venus	74875-09-07 01:12 G	29068841.37	29068841.55	29068841.74	0.0090	0.0045
Venus	74876-04-19 13:55 G	29069066.90	29069067.08	29069067.29	0.0090	0.0038
Venus	74876-12-01 02:53 G	29069292.43	29069292.62	29069292.84	0.0090	0.0031
Venus	74877-07-14 16:05 G	29069517.97	29069518.17	29069518.39	0.0090	0.0023

Venus	74878-02-25 05:03 G	29069743.50	29069743.71	29069743.93	0.0090	0.0016
Venus	74878-10-08 18:15 G	29069969.04	29069969.26	29069969.48	0.0090	0.0008
Venus	74879-05-22 07:27 G	29070194.59	29070194.81	29070195.03	0.0090	0.0001
Venus	74880-01-02 20:24 G	29070420.14	29070420.35	29070420.57	0.0090	0.0007
Venus	74880-08-15 09:36 G	29070645.68	29070645.90	29070646.11	0.0090	0.0014
Venus	74881-03-28 22:19 G	29070871.23	29070871.43	29070871.65	0.0090	0.0022
Venus	74881-11-09 11:31 G	29071096.78	29071096.98	29071097.19	0.0090	0.0029
Venus	74882-06-23 00:58 G	29071322.34	29071322.54	29071322.74	0.0090	0.0036
Venus	74883-02-03 13:41 G	29071547.89	29071548.07	29071548.27	0.0090	0.0044
Venus	74883-09-17 02:53 G	29071773.45	29071773.62	29071773.81	0.0090	0.0051
Venus	74884-04-29 16:05 G	29071999.01	29071999.17	29071999.34	0.0090	0.0058
Venus	74884-12-11 04:48 G	29072224.57	29072224.70	29072224.87	0.0090	0.0066
Venus	74885-07-24 18:00 G	29072450.14	29072450.25	29072450.40	0.0090	0.0073
Venus	74886-03-07 07:12 G	29072675.72	29072675.80	29072675.91	0.0090	0.0080
Venus	74886-10-18 20:10 G	29072901.31	29072901.34	29072901.41	0.0090	0.0087
Moon	74892-09-18 04:34 G	29075062.56	29075062.69	29075062.87	0.0090	0.0070
Earth	74892-09-18 08:10 G	29075062.72	29075062.84	29075063.00	0.0090	0.0074 *
Earth	74893-09-20 19:12 G	29075430.11	29075430.30	29075430.54	0.0090	0.0048
Moon	74893-09-20 22:48 G	29075430.25	29075430.45	29075430.67	0.0090	0.0052 *
Moon	74894-09-23 04:34 G	29075797.45	29075797.69	29075797.94	0.0090	0.0016
Earth	74894-09-23 06:58 G	29075797.55	29075797.79	29075798.05	0.0090	0.0021 *
Earth	74895-09-25 18:29 G	29076165.02	29076165.27	29076165.52	0.0090	0.0006
Moon	74895-09-25 19:27 G	29076165.05	29076165.31	29076165.58	0.0090	0.0002 *
Moon	74896-09-27 05:03 G	29076532.50	29076532.71	29076532.95	0.0090	0.0038
Earth	74896-09-27 05:31 G	29076532.51	29076532.73	29076532.98	0.0090	0.0033 *
Moon	74897-09-29 15:22 G	29076899.96	29076900.14	29076900.37	0.0090	0.0055
Earth	74897-09-29 16:34 G	29076900.02	29076900.19	29076900.40	0.0090	0.0060 *
Mercury	74898-06-23 05:46 G	29077166.70	29077166.74	29077166.80	0.0090	0.0085
Mercury	74898-09-19 08:10 G	29077254.77	29077254.84	29077254.93	0.0090	0.0076
Earth	74898-10-02 03:36 G	29077267.60	29077267.65	29077267.74	0.0090	0.0086

Mercury	74898-12-16 10:19 G	29077342.84	29077342.93	29077343.05	0.0090	0.0067
Mercury	74899-03-14 12:43 G	29077430.92	29077431.03	29077431.16	0.0090	0.0058
Mercury	74899-06-10 14:53 G	29077519.00	29077519.12	29077519.27	0.0090	0.0049
Mercury	74899-09-06 17:17 G	29077607.09	29077607.22	29077607.38	0.0090	0.0040
Mercury	74899-12-03 19:41 G	29077695.18	29077695.32	29077695.48	0.0090	0.0030
Mercury	74900-03-01 21:51 G	29077783.27	29077783.41	29077783.57	0.0090	0.0022
Mercury	74900-05-29 00:15 G	29077871.36	29077871.51	29077871.67	0.0090	0.0012
Mercury	74900-08-25 02:39 G	29077959.45	29077959.61	29077959.76	0.0090	0.0004
Mercury	74900-11-21 04:48 G	29078047.54	29078047.70	29078047.86	0.0090	0.0006
Mercury	74901-02-17 06:58 G	29078135.63	29078135.79	29078135.95	0.0090	0.0014
Mercury	74901-05-16 08:53 G	29078223.73	29078223.87	29078224.03	0.0090	0.0024
Mercury	74901-08-12 11:17 G	29078311.82	29078311.97	29078312.12	0.0090	0.0032
Mercury	74901-11-08 13:27 G	29078399.92	29078400.06	29078400.20	0.0090	0.0041
Mercury	74902-02-04 15:22 G	29078488.02	29078488.14	29078488.28	0.0090	0.0050
Mercury	74902-05-03 17:46 G	29078576.12	29078576.24	29078576.36	0.0090	0.0058
Mercury	74902-07-30 19:41 G	29078664.23	29078664.32	29078664.43	0.0090	0.0067
Mercury	74902-10-26 21:36 G	29078752.34	29078752.40	29078752.50	0.0090	0.0076
Mercury	74903-01-23 00:00 G	29078840.45	29078840.50	29078840.56	0.0090	0.0084
Mars	74924-09-12 20:53 G	29086744.06	29086744.37	29086744.72	0.0089	0.0024
Venus	74953-06-29 07:41 G	29097260.82	29097260.82	29097260.85	0.0088	0.0088
Venus	74954-02-09 20:39 G	29097486.29	29097486.36	29097486.46	0.0088	0.0081
Venus	74954-09-23 09:36 G	29097711.80	29097711.90	29097712.04	0.0088	0.0074
Venus	74955-05-06 22:48 G	29097937.32	29097937.45	29097937.60	0.0088	0.0067
Venus	74955-12-18 12:00 G	29098162.85	29098163.00	29098163.17	0.0088	0.0060
Venus	74956-07-31 01:12 G	29098388.38	29098388.55	29098388.73	0.0088	0.0053
Venus	74957-03-13 14:10 G	29098613.91	29098614.09	29098614.29	0.0088	0.0046
Venus	74957-10-25 03:22 G	29098839.44	29098839.64	29098839.84	0.0088	0.0039
Venus	74958-06-07 16:19 G	29099064.98	29099065.18	29099065.39	0.0088	0.0032
Venus	74959-01-19 05:31 G	29099290.52	29099290.73	29099290.94	0.0088	0.0025
Venus	74959-09-01 18:29 G	29099516.06	29099516.27	29099516.49	0.0088	0.0018

Venus	74960-04-14 07:27 G	29099741.60	29099741.81	29099742.04	0.0088	0.0011
Venus	74960-11-25 20:39 G	29099967.14	29099967.36	29099967.59	0.0088	0.0004
Venus	74961-07-09 09:36 G	29100192.68	29100192.90	29100193.13	0.0088	0.0004
Venus	74962-02-19 22:34 G	29100418.22	29100418.44	29100418.66	0.0088	0.0011
Venus	74962-10-03 11:17 G	29100643.76	29100643.97	29100644.20	0.0088	0.0018
Venus	74963-05-17 00:15 G	29100869.31	29100869.51	29100869.74	0.0088	0.0025
Venus	74963-12-28 13:27 G	29101094.86	29101095.06	29101095.27	0.0088	0.0032
Venus	74964-08-10 02:10 G	29101320.41	29101320.59	29101320.80	0.0088	0.0039
Venus	74965-03-23 15:07 G	29101545.95	29101546.13	29101546.33	0.0088	0.0046
Venus	74965-11-04 03:51 G	29101771.50	29101771.66	29101771.86	0.0088	0.0053
Venus	74966-06-17 16:48 G	29101997.05	29101997.20	29101997.38	0.0088	0.0060
Venus	74967-01-29 05:31 G	29102222.61	29102222.73	29102222.90	0.0088	0.0067
Venus	74967-09-11 18:29 G	29102448.17	29102448.27	29102448.41	0.0088	0.0074
Venus	74968-04-24 07:41 G	29102673.74	29102673.82	29102673.92	0.0088	0.0080
Venus	74968-12-05 20:39 G	29102899.34	29102899.36	29102899.40	0.0088	0.0087
Earth	74975-03-21 17:03 G	29105196.08	29105196.21	29105196.37	0.0088	0.0073
Moon	74975-03-21 20:10 G	29105196.20	29105196.34	29105196.51	0.0088	0.0071 *
Moon	74976-03-23 03:36 G	29105563.45	29105563.65	29105563.87	0.0088	0.0049
Earth	74976-03-23 04:48 G	29105563.50	29105563.70	29105563.94	0.0088	0.0048 *
Earth	74977-03-25 17:17 G	29105930.97	29105931.22	29105931.47	0.0088	0.0022
Moon	74977-03-25 18:00 G	29105930.99	29105931.25	29105931.52	0.0088	0.0020 *
Earth	74978-03-28 05:17 G	29106298.46	29106298.72	29106298.98	0.0088	0.0004
Moon	74978-03-28 05:31 G	29106298.48	29106298.73	29106298.99	0.0088	0.0002 *
Moon	74979-03-30 14:53 G	29106665.88	29106666.12	29106666.39	0.0088	0.0031
Earth	74979-03-30 17:17 G	29106665.97	29106666.22	29106666.47	0.0088	0.0029 *
Earth	74980-04-01 04:34 G	29107033.51	29107033.69	29107033.92	0.0088	0.0055
Moon	74980-04-01 06:58 G	29107033.61	29107033.79	29107034.02	0.0088	0.0053 *
Mercury	74981-03-06 05:31 G	29107372.69	29107372.73	29107372.78	0.0088	0.0083
Moon	74981-04-03 13:12 G	29107400.99	29107401.05	29107401.16	0.0088	0.0083
Earth	74981-04-03 17:03 G	29107401.12	29107401.21	29107401.32	0.0088	0.0080 *

Mercury	74981-06-02 07:12 G	29107460.74	29107460.80	29107460.89	0.0088	0.0076
Mercury	74981-08-29 09:07 G	29107548.80	29107548.88	29107548.99	0.0088	0.0068
Mercury	74981-11-25 11:03 G	29107636.87	29107636.96	29107637.09	0.0088	0.0060
Mercury	74982-02-21 13:27 G	29107724.94	29107725.06	29107725.19	0.0088	0.0051
Mercury	74982-05-20 15:22 G	29107813.01	29107813.14	29107813.28	0.0088	0.0043
Mercury	74982-08-16 17:17 G	29107901.08	29107901.22	29107901.37	0.0088	0.0035
Mercury	74982-11-12 19:27 G	29107989.16	29107989.31	29107989.46	0.0088	0.0027
Mercury	74983-02-08 21:22 G	29108077.24	29108077.39	29108077.55	0.0088	0.0019
Mercury	74983-05-07 23:31 G	29108165.32	29108165.48	29108165.63	0.0088	0.0010
Mercury	74983-08-04 01:27 G	29108253.41	29108253.56	29108253.72	0.0088	0.0003
Mercury	74983-10-31 03:36 G	29108341.49	29108341.65	29108341.81	0.0088	0.0006
Mercury	74984-01-27 05:31 G	29108429.58	29108429.73	29108429.89	0.0088	0.0015
Mercury	74984-04-24 07:41 G	29108517.67	29108517.82	29108517.97	0.0088	0.0023
Mercury	74984-07-21 09:51 G	29108605.76	29108605.91	29108606.06	0.0088	0.0031
Mercury	74984-10-17 11:46 G	29108693.86	29108693.99	29108694.14	0.0088	0.0040
Mercury	74985-01-13 13:55 G	29108781.95	29108782.08	29108782.22	0.0088	0.0048
Mercury	74985-04-11 15:51 G	29108870.05	29108870.16	29108870.29	0.0088	0.0057
Mercury	74985-07-08 18:00 G	29108958.15	29108958.25	29108958.37	0.0088	0.0065
Mercury	74985-10-04 19:55 G	29109046.26	29109046.33	29109046.43	0.0088	0.0074
Mercury	74985-12-31 22:19 G	29109134.38	29109134.43	29109134.49	0.0088	0.0082

# 76TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 76th millennium CE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
--------	-----------------	---	-------	-----	-----	--------	-------	---

TIME

Mars	75008-05-28 04:48 G	29117316.41	29117316.70	29117316.99	0.0088	0.0003
Jupiter	75035-12-11 14:24 G	29127374.56	29127375.10	29127375.65	0.0089	0.0007
Venus	75036-11-08 16:48 G	29127708.13	29127708.20	29127708.29	0.0089	0.0083
Venus	75037-06-22 05:46 G	29127933.64	29127933.74	29127933.87	0.0090	0.0076
Venus	75038-02-02 18:43 G	29128159.16	29128159.28	29128159.44	0.0090	0.0069
Venus	75038-09-16 07:41 G	29128384.68	29128384.82	29128385.00	0.0090	0.0062
Venus	75039-04-29 21:07 G	29128610.21	29128610.38	29128610.55	0.0090	0.0054
Venus	75039-12-11 09:51 G	29128835.74	29128835.91	29128836.11	0.0090	0.0047
Venus	75040-07-23 22:48 G	29129061.27	29129061.45	29129061.66	0.0090	0.0040
Venus	75041-03-06 12:00 G	29129286.80	29129287.00	29129287.20	0.0090	0.0032
Venus	75041-10-18 00:43 G	29129512.33	29129512.53	29129512.75	0.0090	0.0025
Venus	75042-05-31 13:55 G	29129737.87	29129738.08	29129738.30	0.0090	0.0017
Venus	75043-01-12 03:07 G	29129963.41	29129963.63	29129963.84	0.0090	0.0010
Venus	75043-08-25 16:05 G	29130188.95	29130189.17	29130189.39	0.0090	0.0003
Venus	75044-04-07 05:03 G	29130414.49	29130414.71	29130414.92	0.0090	0.0005
Venus	75044-11-18 17:46 G	29130640.03	29130640.24	29130640.47	0.0090	0.0013
Venus	75045-07-02 06:58 G	29130865.58	29130865.79	29130866.01	0.0090	0.0020
Venus	75046-02-12 20:10 G	29131091.13	29131091.34	29131091.55	0.0090	0.0027
Venus	75046-09-26 08:53 G	29131316.68	29131316.87	29131317.08	0.0090	0.0035
Venus	75047-05-09 22:05 G	29131542.24	29131542.42	29131542.62	0.0090	0.0042
Venus	75047-12-21 11:03 G	29131767.79	29131767.96	29131768.16	0.0090	0.0050
Venus	75048-08-03 00:15 G	29131993.36	29131993.51	29131993.69	0.0090	0.0057
Venus	75049-03-16 13:27 G	29132218.92	29132219.06	29132219.22	0.0090	0.0064
Venus	75049-10-28 02:10 G	29132444.48	29132444.59	29132444.75	0.0090	0.0072
Venus	75050-06-10 15:36 G	29132670.06	29132670.15	29132670.27	0.0090	0.0079
Venus	75051-01-22 04:48 G	29132895.65	29132895.70	29132895.78	0.0090	0.0086
Earth	75056-09-19 14:39 G	29134963.05	29134963.11	29134963.19	0.0090	0.0086
Moon	75056-09-19 17:03 G	29134963.14	29134963.21	29134963.32	0.0090	0.0084 *
Moon	75057-09-21 23:46 G	29135330.33	29135330.49	29135330.69	0.0090	0.0062

Earth	75057-09-22 01:41 G	29135330.40	29135330.57	29135330.78	0.0090	0.0060	*
Earth	75058-09-24 13:27 G	29135697.82	29135698.06	29135698.29	0.0090	0.0033	
Moon	75058-09-24 14:10 G	29135697.85	29135698.09	29135698.34	0.0090	0.0032	*
Earth	75059-09-27 00:43 G	29136065.28	29136065.53	29136065.78	0.0090	0.0006	
Moon	75059-09-27 01:27 G	29136065.32	29136065.56	29136065.81	0.0090	0.0009	*
Moon	75060-09-28 10:19 G	29136432.68	29136432.93	29136433.19	0.0090	0.0022	
Earth	75060-09-28 12:15 G	29136432.76	29136433.01	29136433.25	0.0090	0.0020	*
Earth	75061-09-30 23:03 G	29136800.26	29136800.46	29136800.69	0.0090	0.0047	
Moon	75061-10-01 01:41 G	29136800.37	29136800.57	29136800.80	0.0090	0.0046	*
Moon	75062-10-03 07:12 G	29137167.67	29137167.80	29137167.95	0.0090	0.0075	
Earth	75062-10-03 10:48 G	29137167.81	29137167.95	29137168.10	0.0090	0.0073	*
Mercury	75063-03-22 04:05 G	29137337.62	29137337.67	29137337.75	0.0090	0.0082	
Mercury	75063-06-18 06:29 G	29137425.69	29137425.77	29137425.88	0.0090	0.0073	
Mercury	75063-09-14 09:07 G	29137513.77	29137513.88	29137513.99	0.0090	0.0063	
Mercury	75063-12-11 11:17 G	29137601.85	29137601.97	29137602.11	0.0090	0.0054	
Mercury	75064-03-08 13:41 G	29137689.94	29137690.07	29137690.21	0.0090	0.0045	
Mercury	75064-06-04 15:51 G	29137778.02	29137778.16	29137778.32	0.0090	0.0036	
Mercury	75064-08-31 18:15 G	29137866.11	29137866.26	29137866.42	0.0090	0.0027	
Mercury	75064-11-27 20:39 G	29137954.20	29137954.36	29137954.51	0.0090	0.0018	
Mercury	75065-02-23 22:48 G	29138042.29	29138042.45	29138042.61	0.0090	0.0009	
Mercury	75065-05-23 01:12 G	29138130.39	29138130.55	29138130.70	0.0090	0.0002	
Mercury	75065-08-19 03:22 G	29138218.48	29138218.64	29138218.80	0.0090	0.0009	
Mercury	75065-11-15 05:31 G	29138306.57	29138306.73	29138306.89	0.0090	0.0018	
Mercury	75066-02-11 07:41 G	29138394.67	29138394.82	29138394.97	0.0090	0.0027	
Mercury	75066-05-10 09:51 G	29138482.77	29138482.91	29138483.06	0.0090	0.0036	
Mercury	75066-08-06 11:46 G	29138570.87	29138570.99	29138571.14	0.0090	0.0045	
Mercury	75066-11-02 14:10 G	29138658.97	29138659.09	29138659.22	0.0090	0.0053	
Mercury	75067-01-29 16:05 G	29138747.07	29138747.17	29138747.30	0.0090	0.0062	
Mercury	75067-04-27 18:15 G	29138835.18	29138835.26	29138835.37	0.0090	0.0071	
Mercury	75067-07-24 20:24 G	29138923.29	29138923.35	29138923.43	0.0090	0.0079	

Mercury	75067-10-20 22:19 G	29139011.42	29139011.43	29139011.48	0.0090	0.0088
Mars	75090-03-24 08:10 G	29147201.67	29147201.84	29147202.09	0.0089	0.0070
Venus	75118-05-16 05:17 G	29157480.67	29157480.72	29157480.82	0.0088	0.0083
Venus	75118-12-27 18:29 G	29157706.18	29157706.27	29157706.40	0.0088	0.0076
Venus	75119-08-10 07:27 G	29157931.70	29157931.81	29157931.97	0.0088	0.0069
Venus	75120-03-22 20:39 G	29158157.22	29158157.36	29158157.53	0.0088	0.0062
Venus	75120-11-03 09:36 G	29158382.74	29158382.90	29158383.09	0.0088	0.0055
Venus	75121-06-16 22:48 G	29158608.27	29158608.45	29158608.65	0.0088	0.0048
Venus	75122-01-28 11:46 G	29158833.80	29158833.99	29158834.20	0.0088	0.0041
Venus	75122-09-11 00:43 G	29159059.34	29159059.53	29159059.75	0.0088	0.0034
Venus	75123-04-24 13:55 G	29159284.87	29159285.08	29159285.30	0.0088	0.0027
Venus	75123-12-06 03:07 G	29159510.42	29159510.63	29159510.85	0.0088	0.0020
Venus	75124-07-18 16:05 G	29159735.96	29159736.17	29159736.40	0.0088	0.0013
Venus	75125-03-01 05:17 G	29159961.50	29159961.72	29159961.94	0.0088	0.0005
Venus	75125-10-12 18:15 G	29160187.04	29160187.26	29160187.48	0.0088	0.0002
Venus	75126-05-26 07:12 G	29160412.58	29160412.80	29160413.03	0.0088	0.0009
Venus	75127-01-06 20:10 G	29160638.13	29160638.34	29160638.57	0.0088	0.0017
Venus	75127-08-20 09:07 G	29160863.68	29160863.88	29160864.11	0.0088	0.0024
Venus	75128-04-01 22:05 G	29161089.22	29161089.42	29161089.64	0.0088	0.0031
Venus	75128-11-13 11:03 G	29161314.77	29161314.96	29161315.18	0.0088	0.0038
Venus	75129-06-27 00:00 G	29161540.32	29161540.50	29161540.71	0.0088	0.0045
Venus	75130-02-07 12:58 G	29161765.87	29161766.04	29161766.23	0.0088	0.0052
Venus	75130-09-21 01:41 G	29161991.43	29161991.57	29161991.75	0.0088	0.0059
Venus	75131-05-04 14:39 G	29162216.98	29162217.11	29162217.27	0.0088	0.0066
Venus	75131-12-16 03:36 G	29162442.55	29162442.65	29162442.79	0.0088	0.0073
Venus	75132-07-28 16:19 G	29162668.12	29162668.18	29162668.30	0.0088	0.0080
Venus	75133-03-11 05:31 G	29162893.70	29162893.73	29162893.78	0.0088	0.0086
Moon	75139-03-22 21:22 G	29165096.30	29165096.39	29165096.50	0.0088	0.0080
Earth	75139-03-22 22:19 G	29165096.39	29165096.43	29165096.53	0.0088	0.0085 *
Earth	75140-03-24 10:48 G	29165463.77	29165463.95	29165464.15	0.0088	0.0059



Moon	75140-03-24 10:05 G	29165463.77	29165463.92	29165464.14	0.0088	0.0064 *
Earth	75141-03-26 22:48 G	29165831.22	29165831.45	29165831.71	0.0088	0.0034
Moon	75141-03-27 00:00 G	29165831.27	29165831.50	29165831.75	0.0088	0.0030 *
Moon	75142-03-29 08:53 G	29166198.61	29166198.87	29166199.14	0.0088	0.0013
Earth	75142-03-29 11:03 G	29166198.70	29166198.96	29166199.23	0.0088	0.0008 *
Earth	75143-03-31 22:34 G	29166566.20	29166566.44	29166566.71	0.0088	0.0018
Moon	75143-04-01 01:55 G	29166566.34	29166566.58	29166566.84	0.0088	0.0023 *
Moon	75144-04-02 06:58 G	29166933.57	29166933.79	29166934.05	0.0088	0.0039
Earth	75144-04-02 10:48 G	29166933.73	29166933.95	29166934.18	0.0088	0.0043 *
Earth	75145-04-04 22:48 G	29167301.29	29167301.45	29167301.61	0.0088	0.0068
Moon	75145-04-05 01:55 G	29167301.46	29167301.58	29167301.75	0.0088	0.0073 *
Mercury	75145-12-03 04:05 G	29167543.62	29167543.67	29167543.74	0.0088	0.0080
Mercury	75146-03-01 06:00 G	29167631.67	29167631.75	29167631.84	0.0088	0.0072
Mercury	75146-05-28 08:10 G	29167719.74	29167719.84	29167719.94	0.0088	0.0064
Mercury	75146-08-24 10:05 G	29167807.80	29167807.92	29167808.04	0.0088	0.0056
Mercury	75146-11-20 12:00 G	29167895.87	29167896.00	29167896.13	0.0088	0.0048
Mercury	75147-02-16 13:55 G	29167983.95	29167984.08	29167984.22	0.0088	0.0040
Mercury	75147-05-15 15:51 G	29168072.02	29168072.16	29168072.31	0.0088	0.0032
Mercury	75147-08-11 18:00 G	29168160.10	29168160.25	29168160.40	0.0088	0.0024
Mercury	75147-11-07 19:55 G	29168248.18	29168248.33	29168248.49	0.0088	0.0016
Mercury	75148-02-03 22:05 G	29168336.26	29168336.42	29168336.57	0.0088	0.0008
Mercury	75148-05-02 00:00 G	29168424.35	29168424.50	29168424.66	0.0088	0.0002
Mercury	75148-07-29 02:10 G	29168512.43	29168512.59	29168512.74	0.0088	0.0009
Mercury	75148-10-25 04:05 G	29168600.52	29168600.67	29168600.83	0.0088	0.0017
Mercury	75149-01-21 06:00 G	29168688.61	29168688.75	29168688.91	0.0088	0.0026
Mercury	75149-04-19 08:10 G	29168776.70	29168776.84	29168776.99	0.0088	0.0034
Mercury	75149-07-16 10:05 G	29168864.79	29168864.92	29168865.07	0.0088	0.0043
Mercury	75149-10-12 12:15 G	29168952.89	29168953.01	29168953.15	0.0088	0.0051
Mercury	75150-01-08 14:10 G	29169040.99	29169041.09	29169041.22	0.0088	0.0060
Mercury	75150-04-06 16:19 G	29169129.10	29169129.18	29169129.29	0.0088	0.0068

Mercury	75150-07-03 18:15 G	29169217.21	29169217.26	29169217.36	0.0088	0.0077
Mercury	75150-09-29 20:39 G	29169305.33	29169305.36	29169305.41	0.0088	0.0085
Mars	75172-01-12 15:22 G	29177079.96	29177080.14	29177080.36	0.0088	0.0065
Mars	75173-12-06 04:34 G	29177773.54	29177773.69	29177773.86	0.0088	0.0073
Venus	75201-02-11 00:43 G	29187702.49	29187702.53	29187702.62	0.0089	0.0086
Venus	75201-09-24 13:41 G	29187927.99	29187928.07	29187928.20	0.0089	0.0079
Jupiter	75202-02-14 02:10 G	29188070.20	29188070.59	29188071.07	0.0089	0.0055
Venus	75202-05-08 03:07 G	29188153.51	29188153.63	29188153.77	0.0089	0.0071
Venus	75202-12-19 16:05 G	29188379.03	29188379.17	29188379.34	0.0090	0.0064
Venus	75203-08-02 05:03 G	29188604.56	29188604.71	29188604.89	0.0090	0.0057
Venus	75204-03-14 18:15 G	29188830.08	29188830.26	29188830.45	0.0090	0.0049
Venus	75204-10-26 06:58 G	29189055.61	29189055.79	29189056.00	0.0090	0.0042
Venus	75205-06-08 20:10 G	29189281.15	29189281.34	29189281.55	0.0090	0.0035
Venus	75206-01-20 09:22 G	29189506.69	29189506.89	29189507.10	0.0090	0.0027
Venus	75206-09-02 22:19 G	29189732.22	29189732.43	29189732.65	0.0090	0.0019
Venus	75207-04-16 11:17 G	29189957.76	29189957.97	29189958.19	0.0090	0.0012
Venus	75207-11-28 00:15 G	29190183.30	29190183.51	29190183.73	0.0090	0.0005
Venus	75208-07-10 13:27 G	29190408.84	29190409.06	29190409.28	0.0090	0.0003
Venus	75209-02-21 02:24 G	29190634.38	29190634.60	29190634.82	0.0090	0.0011
Venus	75209-10-04 15:22 G	29190859.93	29190860.14	29190860.35	0.0090	0.0018
Venus	75210-05-18 04:19 G	29191085.48	29191085.68	29191085.90	0.0090	0.0026
Venus	75210-12-29 17:31 G	29191311.03	29191311.23	29191311.43	0.0090	0.0033
Venus	75211-08-12 06:15 G	29191536.58	29191536.76	29191536.97	0.0090	0.0041
Venus	75212-03-24 19:27 G	29191762.13	29191762.31	29191762.50	0.0090	0.0048
Venus	75212-11-05 08:39 G	29191987.69	29191987.86	29191988.03	0.0090	0.0055
Venus	75213-06-18 21:22 G	29192213.26	29192213.39	29192213.57	0.0090	0.0063
Venus	75214-01-30 10:48 G	29192438.82	29192438.95	29192439.09	0.0090	0.0070
Venus	75214-09-13 00:00 G	29192664.40	29192664.50	29192664.61	0.0090	0.0077
Venus	75215-04-26 12:29 G	29192889.98	29192890.02	29192890.12	0.0090	0.0085
Moon	75221-09-22 07:12 G	29195230.66	29195230.80	29195230.99	0.0090	0.0069

Earth	75221-09-22 07:12 G	29195230.68	29195230.80	29195230.97	0.0090	0.0073	*
Earth	75222-09-24 18:58 G	29195598.08	29195598.29	29195598.51	0.0090	0.0046	
Moon	75222-09-24 19:27 G	29195598.13	29195598.31	29195598.53	0.0090	0.0051	*
Moon	75223-09-27 03:36 G	29195965.40	29195965.65	29195965.92	0.0090	0.0016	
Earth	75223-09-27 06:15 G	29195965.52	29195965.76	29195966.01	0.0090	0.0020	*
Earth	75224-09-28 17:31 G	29196332.98	29196333.23	29196333.48	0.0090	0.0007	
Moon	75224-09-28 20:24 G	29196333.10	29196333.35	29196333.60	0.0090	0.0003	*
Moon	75225-10-01 01:12 G	29196700.33	29196700.55	29196700.79	0.0090	0.0038	
Earth	75225-10-01 04:34 G	29196700.47	29196700.69	29196700.94	0.0090	0.0034	*
Earth	75226-10-03 15:51 G	29197067.98	29197068.16	29197068.36	0.0090	0.0060	
Moon	75226-10-03 19:12 G	29197068.12	29197068.30	29197068.52	0.0090	0.0056	*
Mercury	75227-09-20 23:46 G	29197420.48	29197420.49	29197420.53	0.0090	0.0089	
Earth	75227-10-06 02:53 G	29197435.58	29197435.62	29197435.72	0.0090	0.0087	
Mercury	75227-12-18 02:24 G	29197508.53	29197508.60	29197508.68	0.0090	0.0079	
Mercury	75228-03-15 04:48 G	29197596.61	29197596.70	29197596.81	0.0090	0.0070	
Mercury	75228-06-11 06:58 G	29197684.69	29197684.79	29197684.92	0.0090	0.0061	
Mercury	75228-09-07 09:22 G	29197772.77	29197772.89	29197773.03	0.0090	0.0052	
Mercury	75228-12-04 11:46 G	29197860.86	29197860.99	29197861.14	0.0090	0.0042	
Mercury	75229-03-02 13:55 G	29197948.94	29197949.08	29197949.24	0.0090	0.0034	
Mercury	75229-05-29 16:19 G	29198037.03	29198037.18	29198037.34	0.0090	0.0025	
Mercury	75229-08-25 18:43 G	29198125.13	29198125.28	29198125.44	0.0090	0.0015	
Mercury	75229-11-21 21:07 G	29198213.22	29198213.38	29198213.54	0.0090	0.0006	
Mercury	75230-02-17 23:17 G	29198301.31	29198301.47	29198301.63	0.0090	0.0003	
Mercury	75230-05-17 01:27 G	29198389.41	29198389.56	29198389.72	0.0090	0.0012	
Mercury	75230-08-13 03:51 G	29198477.50	29198477.66	29198477.81	0.0090	0.0021	
Mercury	75230-11-09 05:46 G	29198565.60	29198565.74	29198565.90	0.0090	0.0030	
Mercury	75231-02-05 07:55 G	29198653.70	29198653.83	29198653.98	0.0090	0.0039	
Mercury	75231-05-04 10:19 G	29198741.80	29198741.93	29198742.07	0.0090	0.0047	
Mercury	75231-07-31 12:29 G	29198829.90	29198830.02	29198830.15	0.0090	0.0056	
Mercury	75231-10-27 14:24 G	29198918.01	29198918.10	29198918.22	0.0090	0.0065	

Mercury	75232-01-23 16:48 G	29199006.12	29199006.20	29199006.29	0.0090	0.0073
Mercury	75232-04-20 18:43 G	29199094.23	29199094.28	29199094.36	0.0090	0.0082
Mars	75253-11-05 09:36 G	29206962.56	29206962.90	29206963.25	0.0089	0.0006
Venus	75282-08-17 14:10 G	29217475.06	29217475.09	29217475.17	0.0088	0.0085
Venus	75283-03-31 03:07 G	29217700.55	29217700.63	29217700.76	0.0088	0.0078
Venus	75283-11-11 16:19 G	29217926.07	29217926.18	29217926.33	0.0088	0.0071
Venus	75284-06-24 05:17 G	29218151.59	29218151.72	29218151.90	0.0088	0.0064
Venus	75285-02-04 18:15 G	29218377.12	29218377.26	29218377.45	0.0088	0.0057
Venus	75285-09-18 07:27 G	29218602.64	29218602.81	29218603.01	0.0088	0.0050
Venus	75286-05-01 20:24 G	29218828.17	29218828.35	29218828.56	0.0088	0.0043
Venus	75286-12-13 09:36 G	29219053.71	29219053.90	29219054.12	0.0088	0.0036
Venus	75287-07-26 22:48 G	29219279.24	29219279.45	29219279.67	0.0088	0.0028
Venus	75288-03-08 11:46 G	29219504.78	29219504.99	29219505.21	0.0088	0.0021
Venus	75288-10-20 00:43 G	29219730.32	29219730.53	29219730.76	0.0088	0.0014
Venus	75289-06-02 13:55 G	29219955.86	29219956.08	29219956.30	0.0088	0.0007
Venus	75290-01-14 02:53 G	29220181.40	29220181.62	29220181.85	0.0088	0.0002
Venus	75290-08-27 15:51 G	29220406.94	29220407.16	29220407.39	0.0088	0.0008
Venus	75291-04-10 05:03 G	29220632.49	29220632.71	29220632.93	0.0088	0.0015
Venus	75291-11-21 18:00 G	29220858.04	29220858.25	29220858.47	0.0088	0.0022
Venus	75292-07-04 06:43 G	29221083.58	29221083.78	29221084.00	0.0088	0.0030
Venus	75293-02-14 19:41 G	29221309.13	29221309.32	29221309.54	0.0088	0.0037
Venus	75293-09-28 08:39 G	29221534.68	29221534.86	29221535.07	0.0088	0.0044
Venus	75294-05-11 21:36 G	29221760.23	29221760.40	29221760.59	0.0088	0.0051
Venus	75294-12-23 10:34 G	29221985.79	29221985.94	29221986.12	0.0088	0.0058
Venus	75295-08-05 23:31 G	29222211.35	29222211.48	29222211.65	0.0088	0.0065
Venus	75296-03-18 12:15 G	29222436.90	29222437.01	29222437.16	0.0088	0.0072
Venus	75296-10-30 00:58 G	29222662.47	29222662.54	29222662.66	0.0088	0.0079
Venus	75297-06-12 13:41 G	29222888.05	29222888.07	29222888.15	0.0088	0.0086
Earth	75304-03-24 15:22 G	29225364.01	29225364.14	29225364.32	0.0088	0.0071
Moon	75304-03-24 17:31 G	29225364.10	29225364.23	29225364.40	0.0088	0.0071 *

Moon	75305-03-27 00:43 G	29225731.32	29225731.53	29225731.78	0.0088	0.0045
Earth	75305-03-27 04:05 G	29225731.45	29225731.67	29225731.90	0.0088	0.0045 *
Earth	75306-03-29 15:51 G	29226098.91	29226099.16	29226099.42	0.0088	0.0020
Moon	75306-03-29 19:12 G	29226099.05	29226099.30	29226099.55	0.0088	0.0019 *
Moon	75307-04-01 00:15 G	29226466.25	29226466.51	29226466.77	0.0088	0.0006
Earth	75307-04-01 04:05 G	29226466.41	29226466.67	29226466.93	0.0088	0.0006 *
Earth	75308-04-02 15:36 G	29226833.92	29226834.15	29226834.41	0.0088	0.0032
Moon	75308-04-02 18:58 G	29226834.06	29226834.29	29226834.55	0.0088	0.0032 *
Moon	75309-04-05 00:29 G	29227201.35	29227201.52	29227201.74	0.0088	0.0056
Earth	75309-04-05 03:36 G	29227201.47	29227201.65	29227201.87	0.0088	0.0057 *
Earth	75310-04-07 15:22 G	29227569.07	29227569.14	29227569.26	0.0088	0.0082
Moon	75310-04-07 17:03 G	29227569.15	29227569.21	29227569.33	0.0088	0.0083 *
Mercury	75310-06-04 00:43 G	29227626.50	29227626.53	29227626.58	0.0088	0.0085
Mercury	75310-08-31 02:39 G	29227714.55	29227714.61	29227714.69	0.0088	0.0077
Mercury	75310-11-27 04:34 G	29227802.61	29227802.69	29227802.79	0.0088	0.0069
Mercury	75311-02-23 06:43 G	29227890.67	29227890.78	29227890.89	0.0088	0.0061
Mercury	75311-05-22 08:39 G	29227978.74	29227978.86	29227978.98	0.0088	0.0053
Mercury	75311-08-18 10:34 G	29228066.81	29228066.94	29228067.08	0.0088	0.0045
Mercury	75311-11-14 12:29 G	29228154.89	29228155.02	29228155.17	0.0088	0.0037
Mercury	75312-02-10 14:24 G	29228242.96	29228243.10	29228243.25	0.0088	0.0029
Mercury	75312-05-08 16:34 G	29228331.04	29228331.19	29228331.34	0.0088	0.0021
Mercury	75312-08-04 18:29 G	29228419.12	29228419.27	29228419.43	0.0088	0.0013
Mercury	75312-10-31 20:39 G	29228507.20	29228507.36	29228507.51	0.0088	0.0005
Mercury	75313-01-27 22:34 G	29228595.28	29228595.44	29228595.60	0.0088	0.0004
Mercury	75313-04-26 00:29 G	29228683.37	29228683.52	29228683.68	0.0088	0.0012
Mercury	75313-07-23 02:24 G	29228771.46	29228771.60	29228771.76	0.0088	0.0021
Mercury	75313-10-19 04:34 G	29228859.55	29228859.69	29228859.84	0.0088	0.0029
Mercury	75314-01-15 06:43 G	29228947.64	29228947.78	29228947.92	0.0088	0.0037
Mercury	75314-04-13 08:39 G	29229035.73	29229035.86	29229036.00	0.0088	0.0045
Mercury	75314-07-10 10:34 G	29229123.83	29229123.94	29229124.08	0.0088	0.0054

Mercury	75314-10-06 12:58 G	29229211.93	29229212.04	29229212.15	0.0088	0.0062
Mercury	75315-01-02 14:53 G	29229300.04	29229300.12	29229300.22	0.0088	0.0071
Mercury	75315-03-31 17:03 G	29229388.15	29229388.21	29229388.28	0.0088	0.0079
Mercury	75315-06-27 19:12 G	29229476.30	29229476.30	29229476.31	0.0088	0.0088
Mars	75337-07-22 14:24 G	29237536.82	29237537.10	29237537.40	0.0088	0.0011
Venus	75365-05-16 08:53 G	29247696.84	29247696.87	29247696.93	0.0089	0.0088
Venus	75365-12-27 21:51 G	29247922.33	29247922.41	29247922.52	0.0089	0.0081
Venus	75366-08-10 10:34 G	29248147.84	29248147.94	29248148.09	0.0089	0.0074
Venus	75367-03-24 00:00 G	29248373.36	29248373.50	29248373.65	0.0090	0.0066
Venus	75367-11-04 12:43 G	29248598.88	29248599.03	29248599.21	0.0090	0.0059
Venus	75368-06-17 01:41 G	29248824.41	29248824.57	29248824.77	0.0090	0.0052
Venus	75369-01-28 15:07 G	29249049.94	29249050.13	29249050.32	0.0090	0.0044
Venus	75369-09-11 03:51 G	29249275.47	29249275.66	29249275.87	0.0090	0.0037
Venus	75370-04-24 17:17 G	29249501.01	29249501.22	29249501.42	0.0090	0.0029
Venus	75370-12-06 06:00 G	29249726.55	29249726.75	29249726.97	0.0090	0.0022
Venus	75371-07-19 19:12 G	29249952.09	29249952.30	29249952.52	0.0090	0.0014
Venus	75372-03-01 08:10 G	29250177.62	29250177.84	29250178.06	0.0090	0.0007
Venus	75372-10-12 21:07 G	29250403.16	29250403.38	29250403.60	0.0090	0.0001
Venus	75373-05-26 10:19 G	29250628.71	29250628.93	29250629.15	0.0090	0.0009
Venus	75374-01-06 23:17 G	29250854.26	29250854.47	29250854.69	0.0090	0.0016
Venus	75374-08-20 12:00 G	29251079.80	29251080.00	29251080.22	0.0090	0.0024
Venus	75375-04-03 01:12 G	29251305.35	29251305.55	29251305.76	0.0090	0.0031
Venus	75375-11-14 13:55 G	29251530.90	29251531.08	29251531.29	0.0090	0.0039
Venus	75376-06-27 03:07 G	29251756.46	29251756.63	29251756.83	0.0090	0.0046
Venus	75377-02-07 16:05 G	29251982.01	29251982.17	29251982.36	0.0090	0.0054
Venus	75377-09-21 05:03 G	29252207.57	29252207.71	29252207.89	0.0090	0.0061
Venus	75378-05-04 18:29 G	29252433.13	29252433.27	29252433.41	0.0090	0.0068
Venus	75378-12-16 07:12 G	29252658.70	29252658.80	29252658.93	0.0090	0.0076
Venus	75379-07-29 20:24 G	29252884.29	29252884.35	29252884.45	0.0090	0.0083
Earth	75385-09-22 12:58 G	29255130.97	29255131.04	29255131.13	0.0090	0.0085

Moon	75385-09-22 14:39 G	29255131.03	29255131.11	29255131.23	0.0090	0.0082	*
Moon	75386-09-24 21:36 G	29255498.23	29255498.40	29255498.61	0.0090	0.0062	
Earth	75386-09-25 00:15 G	29255498.33	29255498.51	29255498.72	0.0090	0.0059	*
Earth	75387-09-27 11:17 G	29255865.75	29255865.97	29255866.22	0.0090	0.0033	
Moon	75387-09-27 14:53 G	29255865.90	29255866.12	29255866.37	0.0090	0.0030	*
Moon	75388-09-28 19:27 G	29256233.06	29256233.31	29256233.57	0.0090	0.0010	
Earth	75388-09-28 23:03 G	29256233.21	29256233.46	29256233.71	0.0090	0.0006	*
Earth	75389-10-01 09:51 G	29256600.67	29256600.91	29256601.17	0.0090	0.0021	
Moon	75389-10-01 13:12 G	29256600.82	29256601.05	29256601.31	0.0090	0.0023	*
Moon	75390-10-03 18:29 G	29256968.07	29256968.27	29256968.50	0.0090	0.0044	
Earth	75390-10-03 21:07 G	29256968.18	29256968.38	29256968.61	0.0090	0.0047	*
Earth	75391-10-06 08:24 G	29257335.72	29257335.85	29257336.01	0.0090	0.0073	
Moon	75391-10-06 09:36 G	29257335.79	29257335.90	29257336.07	0.0090	0.0076	*
Mercury	75392-06-17 22:19 G	29257591.39	29257591.43	29257591.47	0.0090	0.0086	
Mercury	75392-09-14 00:29 G	29257679.45	29257679.52	29257679.61	0.0090	0.0077	
Mercury	75392-12-11 02:39 G	29257767.52	29257767.61	29257767.73	0.0090	0.0068	
Mercury	75393-03-09 05:03 G	29257855.60	29257855.71	29257855.84	0.0090	0.0059	
Mercury	75393-06-05 07:27 G	29257943.69	29257943.81	29257943.95	0.0090	0.0049	
Mercury	75393-09-01 10:05 G	29258031.77	29258031.92	29258032.06	0.0090	0.0040	
Mercury	75393-11-28 12:15 G	29258119.86	29258120.01	29258120.16	0.0090	0.0031	
Mercury	75394-02-24 14:39 G	29258207.95	29258208.11	29258208.27	0.0090	0.0022	
Mercury	75394-05-23 16:48 G	29258296.05	29258296.20	29258296.36	0.0090	0.0013	
Mercury	75394-08-19 19:12 G	29258384.14	29258384.30	29258384.46	0.0090	0.0004	
Mercury	75394-11-15 21:22 G	29258472.24	29258472.39	29258472.55	0.0090	0.0006	
Mercury	75395-02-11 23:31 G	29258560.33	29258560.48	29258560.65	0.0090	0.0015	
Mercury	75395-05-11 01:55 G	29258648.43	29258648.58	29258648.73	0.0090	0.0023	
Mercury	75395-08-07 04:05 G	29258736.53	29258736.67	29258736.82	0.0090	0.0032	
Mercury	75395-11-03 06:15 G	29258824.63	29258824.76	29258824.91	0.0090	0.0041	
Mercury	75396-01-30 08:24 G	29258912.73	29258912.85	29258912.99	0.0090	0.0050	
Mercury	75396-04-27 10:34 G	29259000.83	29259000.94	29259001.07	0.0090	0.0058	

Mercury	75396-07-24 12:58 G	29259088.94	29259089.04	29259089.14	0.0090	0.0067
Mercury	75396-10-20 14:53 G	29259177.05	29259177.12	29259177.21	0.0090	0.0076
Mercury	75397-01-16 17:17 G	29259265.17	29259265.22	29259265.27	0.0090	0.0084
Mars	75417-06-20 08:24 G	29266723.73	29266723.85	29266724.01	0.0089	0.0081
Mars	75419-05-17 18:29 G	29267420.21	29267420.27	29267420.37	0.0089	0.0086
Venus	75446-11-20 22:19 G	29277469.43	29277469.43	29277469.49	0.0088	0.0087
Venus	75447-07-04 11:31 G	29277694.91	29277694.98	29277695.10	0.0088	0.0080
Venus	75448-02-15 00:29 G	29277920.42	29277920.52	29277920.67	0.0088	0.0073
Venus	75448-09-27 13:41 G	29278145.94	29278146.07	29278146.24	0.0088	0.0066
Venus	75449-05-11 02:39 G	29278371.47	29278371.61	29278371.80	0.0088	0.0059
Venus	75449-12-22 15:51 G	29278597.00	29278597.16	29278597.36	0.0088	0.0052
Venus	75450-08-05 05:17 G	29278822.53	29278822.72	29278822.92	0.0088	0.0044
Venus	75451-03-18 18:15 G	29279048.06	29279048.26	29279048.47	0.0088	0.0037
Venus	75451-10-30 07:12 G	29279273.60	29279273.80	29279274.02	0.0088	0.0030
Venus	75452-06-11 20:10 G	29279499.13	29279499.34	29279499.56	0.0088	0.0023
Venus	75453-01-23 09:07 G	29279724.67	29279724.88	29279725.11	0.0088	0.0016
Venus	75453-09-05 22:19 G	29279950.21	29279950.43	29279950.65	0.0088	0.0008
Venus	75454-04-19 11:17 G	29280175.75	29280175.97	29280176.20	0.0088	0.0001
Venus	75454-12-01 00:29 G	29280401.30	29280401.52	29280401.74	0.0088	0.0006
Venus	75455-07-14 13:27 G	29280626.84	29280627.06	29280627.28	0.0088	0.0013
Venus	75456-02-25 02:10 G	29280852.39	29280852.59	29280852.82	0.0088	0.0021
Venus	75456-10-07 15:22 G	29281077.93	29281078.14	29281078.35	0.0088	0.0028
Venus	75457-05-21 04:19 G	29281303.48	29281303.68	29281303.89	0.0088	0.0035
Venus	75458-01-01 17:31 G	29281529.04	29281529.23	29281529.43	0.0088	0.0042
Venus	75458-08-15 06:15 G	29281754.59	29281754.76	29281754.96	0.0088	0.0050
Venus	75459-03-28 18:58 G	29281980.14	29281980.29	29281980.48	0.0088	0.0057
Venus	75459-11-09 07:55 G	29282205.70	29282205.83	29282206.01	0.0088	0.0064
Venus	75460-06-21 20:53 G	29282431.26	29282431.37	29282431.52	0.0088	0.0071
Venus	75461-02-02 09:51 G	29282656.83	29282656.91	29282657.04	0.0088	0.0078
Venus	75461-09-15 22:48 G	29282882.42	29282882.45	29282882.53	0.0088	0.0085



Moon	75468-03-24 17:31 G	29285264.11	29285264.23	29285264.36	0.0088	0.0077
Earth	75468-03-24 20:53 G	29285264.29	29285264.37	29285264.47	0.0088	0.0082 *
Earth	75469-03-27 08:24 G	29285631.67	29285631.85	29285632.07	0.0088	0.0057
Moon	75469-03-27 12:00 G	29285631.84	29285632.00	29285632.21	0.0088	0.0062 *
Moon	75470-03-29 17:17 G	29285998.98	29285999.22	29285999.48	0.0088	0.0027
Earth	75470-03-29 20:39 G	29285999.13	29285999.36	29285999.62	0.0088	0.0032 *
Earth	75471-04-01 08:53 G	29286366.61	29286366.87	29286367.14	0.0088	0.0006
Moon	75471-04-01 12:15 G	29286366.75	29286367.01	29286367.28	0.0088	0.0011 *
Moon	75472-04-02 18:58 G	29286734.05	29286734.29	29286734.54	0.0088	0.0024
Earth	75472-04-02 20:53 G	29286734.12	29286734.37	29286734.64	0.0088	0.0019 *
Earth	75473-04-05 08:39 G	29287101.65	29287101.86	29287102.10	0.0088	0.0045
Moon	75473-04-05 10:05 G	29287101.70	29287101.92	29287102.18	0.0088	0.0041 *
Earth	75474-04-07 20:24 G	29287469.21	29287469.35	29287469.53	0.0088	0.0070
Moon	75474-04-07 20:24 G	29287469.24	29287469.35	29287469.50	0.0088	0.0075 *
Mercury	75475-03-01 23:17 G	29287797.43	29287797.47	29287797.53	0.0088	0.0082
Mercury	75475-05-29 01:12 G	29287885.48	29287885.55	29287885.64	0.0088	0.0074
Mercury	75475-08-25 03:22 G	29287973.54	29287973.64	29287973.74	0.0088	0.0066
Mercury	75475-11-21 05:17 G	29288061.61	29288061.72	29288061.84	0.0088	0.0058
Mercury	75476-02-17 07:12 G	29288149.68	29288149.80	29288149.93	0.0088	0.0050
Mercury	75476-05-15 09:07 G	29288237.75	29288237.88	29288238.02	0.0088	0.0042
Mercury	75476-08-11 11:03 G	29288325.82	29288325.96	29288326.11	0.0088	0.0034
Mercury	75476-11-07 13:12 G	29288413.90	29288414.05	29288414.19	0.0088	0.0026
Mercury	75477-02-03 15:07 G	29288501.98	29288502.13	29288502.28	0.0088	0.0018
Mercury	75477-05-02 17:03 G	29288590.06	29288590.21	29288590.37	0.0088	0.0010
Mercury	75477-07-29 18:58 G	29288678.14	29288678.29	29288678.45	0.0088	0.0003
Mercury	75477-10-25 21:07 G	29288766.22	29288766.38	29288766.53	0.0088	0.0007
Mercury	75478-01-21 23:03 G	29288854.31	29288854.46	29288854.62	0.0088	0.0015
Mercury	75478-04-20 00:58 G	29288942.39	29288942.54	29288942.70	0.0088	0.0023
Mercury	75478-07-17 02:53 G	29289030.48	29289030.62	29289030.78	0.0088	0.0032
Mercury	75478-10-13 05:03 G	29289118.57	29289118.71	29289118.85	0.0088	0.0040

Mercury	75479-01-09 06:58 G	29289206.67	29289206.79	29289206.93	0.0088	0.0048
Mercury	75479-04-07 08:53 G	29289294.77	29289294.87	29289295.01	0.0088	0.0057
Mercury	75479-07-04 11:03 G	29289382.87	29289382.96	29289383.08	0.0088	0.0065
Mercury	75479-09-30 13:12 G	29289470.97	29289471.05	29289471.14	0.0088	0.0073
Mercury	75479-12-27 15:07 G	29289559.09	29289559.13	29289559.20	0.0088	0.0082
Mars	75501-03-08 23:31 G	29297300.25	29297300.48	29297300.72	0.0088	0.0051
Mars	75503-01-31 13:27 G	29297994.02	29297994.06	29297994.17	0.0088	0.0086
Venus	75530-04-02 05:31 G	29307916.67	29307916.73	29307916.83	0.0089	0.0084
Venus	75530-11-13 18:43 G	29308142.18	29308142.28	29308142.40	0.0089	0.0076
Venus	75531-06-27 07:41 G	29308367.70	29308367.82	29308367.97	0.0089	0.0069
Venus	75532-02-07 20:24 G	29308593.22	29308593.35	29308593.53	0.0090	0.0062
Venus	75532-09-20 09:36 G	29308818.74	29308818.90	29308819.09	0.0090	0.0054
Venus	75533-05-03 22:34 G	29309044.27	29309044.44	29309044.64	0.0090	0.0047
Venus	75533-12-15 11:46 G	29309269.80	29309269.99	29309270.20	0.0090	0.0039
Venus	75534-07-29 00:43 G	29309495.34	29309495.53	29309495.75	0.0090	0.0032
Venus	75535-03-11 13:55 G	29309720.87	29309721.08	29309721.29	0.0090	0.0024
Venus	75535-10-23 02:53 G	29309946.41	29309946.62	29309946.84	0.0090	0.0016
Venus	75536-06-04 16:05 G	29310171.96	29310172.17	29310172.39	0.0090	0.0009
Venus	75537-01-16 05:17 G	29310397.50	29310397.72	29310397.93	0.0090	0.0002
Venus	75537-08-29 18:00 G	29310623.04	29310623.25	29310623.47	0.0090	0.0007
Venus	75538-04-12 07:12 G	29310848.58	29310848.80	29310849.01	0.0090	0.0014
Venus	75538-11-23 19:55 G	29311074.13	29311074.33	29311074.55	0.0090	0.0022
Venus	75539-07-07 09:07 G	29311299.68	29311299.88	29311300.09	0.0090	0.0029
Venus	75540-02-17 21:51 G	29311525.23	29311525.41	29311525.62	0.0090	0.0037
Venus	75540-09-30 11:03 G	29311750.78	29311750.96	29311751.15	0.0090	0.0044
Venus	75541-05-13 23:46 G	29311976.33	29311976.49	29311976.69	0.0090	0.0052
Venus	75541-12-25 12:58 G	29312201.89	29312202.04	29312202.21	0.0090	0.0059
Venus	75542-08-08 01:55 G	29312427.45	29312427.58	29312427.74	0.0090	0.0067
Venus	75543-03-21 14:53 G	29312653.02	29312653.12	29312653.26	0.0090	0.0074
Venus	75543-11-02 03:36 G	29312878.59	29312878.65	29312878.77	0.0090	0.0082

Venus	75544-06-14 17:03 G	29313104.20	29313104.21	29313104.26	0.0090	0.0089
Earth	75550-09-26 04:34 G	29315398.56	29315398.69	29315398.86	0.0090	0.0072
Moon	75550-09-26 07:55 G	29315398.69	29315398.83	29315399.01	0.0090	0.0069 *
Moon	75551-09-28 12:29 G	29315765.82	29315766.02	29315766.24	0.0090	0.0049
Earth	75551-09-28 16:05 G	29315765.97	29315766.17	29315766.40	0.0090	0.0046 *
Earth	75552-09-30 03:22 G	29316133.40	29316133.64	29316133.90	0.0090	0.0020
Moon	75552-09-30 06:15 G	29316133.51	29316133.76	29316134.02	0.0090	0.0016 *
Moon	75553-10-02 12:43 G	29316500.78	29316501.03	29316501.27	0.0090	0.0004
Earth	75553-10-02 14:53 G	29316500.87	29316501.12	29316501.37	0.0090	0.0007 *
Earth	75554-10-05 02:10 G	29316868.35	29316868.59	29316868.82	0.0090	0.0033
Moon	75554-10-05 02:53 G	29316868.40	29316868.62	29316868.88	0.0090	0.0037 *
Earth	75555-10-07 12:43 G	29317235.86	29317236.03	29317236.24	0.0090	0.0060
Moon	75555-10-07 13:27 G	29317235.88	29317236.06	29317236.26	0.0090	0.0057 *
Moon	75556-10-08 22:34 G	29317603.43	29317603.44	29317603.51	0.0090	0.0089
Earth	75556-10-09 00:00 G	29317603.45	29317603.50	29317603.60	0.0090	0.0086 *
Mercury	75557-03-16 19:41 G	29317762.29	29317762.32	29317762.39	0.0090	0.0085
Mercury	75557-06-12 22:34 G	29317850.35	29317850.44	29317850.52	0.0090	0.0075
Mercury	75557-09-09 00:43 G	29317938.43	29317938.53	29317938.65	0.0090	0.0066
Mercury	75557-12-06 03:07 G	29318026.51	29318026.63	29318026.76	0.0090	0.0057
Mercury	75558-03-04 05:17 G	29318114.60	29318114.72	29318114.87	0.0090	0.0048
Mercury	75558-05-31 07:41 G	29318202.69	29318202.82	29318202.98	0.0090	0.0039
Mercury	75558-08-27 10:05 G	29318290.78	29318290.92	29318291.08	0.0090	0.0029
Mercury	75558-11-23 12:29 G	29318378.87	29318379.02	29318379.18	0.0090	0.0020
Mercury	75559-02-19 14:53 G	29318466.96	29318467.12	29318467.28	0.0090	0.0011
Mercury	75559-05-18 17:03 G	29318555.06	29318555.21	29318555.38	0.0090	0.0003
Mercury	75559-08-14 19:27 G	29318643.15	29318643.31	29318643.47	0.0090	0.0007
Mercury	75559-11-10 21:36 G	29318731.25	29318731.40	29318731.56	0.0090	0.0016
Mercury	75560-02-07 00:00 G	29318819.35	29318819.50	29318819.65	0.0090	0.0025
Mercury	75560-05-05 02:10 G	29318907.45	29318907.59	29318907.74	0.0090	0.0034
Mercury	75560-08-01 04:19 G	29318995.55	29318995.68	29318995.82	0.0090	0.0043

Mercury	75560-10-28 06:29 G	29319083.65	29319083.77	29319083.91	0.0090	0.0052
Mercury	75561-01-24 08:39 G	29319171.75	29319171.86	29319171.99	0.0090	0.0060
Mercury	75561-04-22 11:03 G	29319259.86	29319259.96	29319260.06	0.0090	0.0069
Mercury	75561-07-19 12:58 G	29319347.98	29319348.04	29319348.13	0.0090	0.0078
Mercury	75561-10-15 15:07 G	29319436.10	29319436.13	29319436.18	0.0090	0.0087
Mars	75582-12-29 16:34 G	29327180.85	29327181.19	29327181.53	0.0089	0.0009
Jupiter	75610-10-03 09:36 G	29337320.59	29337320.90	29337321.26	0.0088	0.0069
Venus	75611-10-06 19:41 G	29337689.26	29337689.32	29337689.42	0.0088	0.0082
Venus	75612-05-19 08:53 G	29337914.77	29337914.87	29337915.00	0.0088	0.0075
Venus	75612-12-30 22:05 G	29338140.30	29338140.42	29338140.58	0.0088	0.0068
Venus	75613-08-13 11:03 G	29338365.82	29338365.96	29338366.14	0.0088	0.0061
Venus	75614-03-27 00:29 G	29338591.35	29338591.52	29338591.70	0.0088	0.0053
Venus	75614-11-07 13:27 G	29338816.88	29338817.06	29338817.26	0.0088	0.0046
Venus	75615-06-21 02:24 G	29339042.41	29339042.60	29339042.81	0.0088	0.0039
Venus	75616-02-01 15:22 G	29339267.95	29339268.14	29339268.36	0.0088	0.0032
Venus	75616-09-14 04:19 G	29339493.48	29339493.68	29339493.91	0.0088	0.0025
Venus	75617-04-27 17:46 G	29339719.02	29339719.24	29339719.45	0.0088	0.0017
Venus	75617-12-09 06:43 G	29339944.56	29339944.78	29339945.00	0.0088	0.0010
Venus	75618-07-22 19:41 G	29340170.10	29340170.32	29340170.55	0.0088	0.0003
Venus	75619-03-05 08:39 G	29340395.64	29340395.86	29340396.08	0.0088	0.0005
Venus	75619-10-16 21:36 G	29340621.18	29340621.40	29340621.62	0.0088	0.0012
Venus	75620-05-29 10:34 G	29340846.72	29340846.94	29340847.16	0.0088	0.0019
Venus	75621-01-09 23:31 G	29341072.28	29341072.48	29341072.70	0.0088	0.0027
Venus	75621-08-23 12:29 G	29341297.82	29341298.02	29341298.24	0.0088	0.0034
Venus	75622-04-06 01:27 G	29341523.37	29341523.56	29341523.77	0.0088	0.0041
Venus	75622-11-17 14:39 G	29341748.93	29341749.11	29341749.30	0.0088	0.0048
Venus	75623-07-01 03:36 G	29341974.48	29341974.65	29341974.83	0.0088	0.0055
Venus	75624-02-11 16:05 G	29342200.04	29342200.17	29342200.35	0.0088	0.0063
Venus	75624-09-24 05:03 G	29342425.60	29342425.71	29342425.87	0.0088	0.0070
Venus	75625-05-07 18:00 G	29342651.17	29342651.25	29342651.39	0.0088	0.0077

Venus	75625-12-19 07:12 G	29342876.76	29342876.80	29342876.89	0.0088	0.0084
Moon	75633-03-27 10:05 G	29345531.80	29345531.92	29345532.11	0.0088	0.0071
Earth	75633-03-27 13:27 G	29345531.92	29345532.06	29345532.25	0.0088	0.0069 *
Earth	75634-03-30 01:55 G	29345899.35	29345899.58	29345899.81	0.0088	0.0043
Moon	75634-03-30 04:05 G	29345899.46	29345899.67	29345899.93	0.0088	0.0043 *
Moon	75635-04-01 12:00 G	29346266.76	29346267.00	29346267.26	0.0088	0.0019
Earth	75635-04-01 13:55 G	29346266.83	29346267.08	29346267.34	0.0088	0.0018 *
Earth	75636-04-03 02:10 G	29346634.33	29346634.59	29346634.85	0.0088	0.0007
Moon	75636-04-03 02:24 G	29346634.33	29346634.60	29346634.87	0.0088	0.0009 *
Earth	75637-04-05 13:55 G	29347001.84	29347002.08	29347002.33	0.0088	0.0033
Moon	75637-04-05 14:24 G	29347001.88	29347002.10	29347002.35	0.0088	0.0032 *
Moon	75638-04-07 23:46 G	29347369.31	29347369.49	29347369.71	0.0088	0.0059
Earth	75638-04-08 01:55 G	29347369.40	29347369.58	29347369.79	0.0088	0.0058 *
Earth	75639-04-10 14:10 G	29347737.01	29347737.09	29347737.17	0.0088	0.0083
Moon	75639-04-10 17:17 G	29347737.13	29347737.22	29347737.31	0.0088	0.0082 *
Mercury	75639-08-31 19:55 G	29347880.32	29347880.33	29347880.37	0.0088	0.0087
Mercury	75639-11-27 21:51 G	29347968.36	29347968.41	29347968.49	0.0088	0.0079
Mercury	75640-02-24 00:00 G	29348056.42	29348056.50	29348056.59	0.0088	0.0071
Mercury	75640-05-22 01:55 G	29348144.48	29348144.58	29348144.69	0.0088	0.0063
Mercury	75640-08-18 03:51 G	29348232.55	29348232.66	29348232.78	0.0088	0.0055
Mercury	75640-11-14 05:46 G	29348320.62	29348320.74	29348320.87	0.0088	0.0047
Mercury	75641-02-10 07:41 G	29348408.69	29348408.82	29348408.96	0.0088	0.0039
Mercury	75641-05-09 09:51 G	29348496.76	29348496.91	29348497.05	0.0088	0.0031
Mercury	75641-08-05 11:46 G	29348584.84	29348584.99	29348585.14	0.0088	0.0023
Mercury	75641-11-01 13:41 G	29348672.92	29348673.07	29348673.22	0.0088	0.0015
Mercury	75642-01-28 15:36 G	29348761.00	29348761.15	29348761.31	0.0088	0.0007
Mercury	75642-04-26 17:46 G	29348849.08	29348849.24	29348849.39	0.0088	0.0003
Mercury	75642-07-23 19:41 G	29348937.16	29348937.32	29348937.47	0.0088	0.0010
Mercury	75642-10-19 21:36 G	29349025.25	29349025.40	29349025.55	0.0088	0.0018
Mercury	75643-01-15 23:31 G	29349113.34	29349113.48	29349113.63	0.0088	0.0026

Mercury	75643-04-14 01:27 G	29349201.43	29349201.56	29349201.71	0.0088	0.0035
Mercury	75643-07-11 03:22 G	29349289.52	29349289.64	29349289.79	0.0088	0.0043
Mercury	75643-10-07 05:31 G	29349377.61	29349377.73	29349377.87	0.0088	0.0051
Mercury	75644-01-03 07:41 G	29349465.71	29349465.82	29349465.94	0.0088	0.0059
Mercury	75644-03-31 09:36 G	29349553.81	29349553.90	29349554.01	0.0088	0.0068
Mercury	75644-06-27 11:46 G	29349641.92	29349641.99	29349642.07	0.0088	0.0076
Mercury	75644-09-23 13:41 G	29349730.04	29349730.07	29349730.12	0.0088	0.0085
Mars	75666-09-15 21:51 G	29357757.15	29357757.41	29357757.70	0.0088	0.0024
Venus	75694-07-04 13:41 G	29367911.02	29367911.07	29367911.14	0.0089	0.0086
Venus	75695-02-15 02:24 G	29368136.51	29368136.60	29368136.72	0.0089	0.0079
Venus	75695-09-28 15:07 G	29368362.02	29368362.13	29368362.28	0.0089	0.0072
Venus	75696-05-11 04:19 G	29368587.55	29368587.68	29368587.85	0.0089	0.0064
Venus	75696-12-22 17:17 G	29368813.07	29368813.22	29368813.41	0.0089	0.0057
Venus	75697-08-05 06:29 G	29369038.59	29369038.77	29369038.96	0.0090	0.0049
Venus	75698-03-18 19:12 G	29369264.12	29369264.30	29369264.51	0.0090	0.0042
Venus	75698-10-30 08:24 G	29369489.65	29369489.85	29369490.06	0.0090	0.0034
Venus	75699-06-12 21:22 G	29369715.19	29369715.39	29369715.61	0.0090	0.0027
Venus	75700-01-24 10:34 G	29369940.73	29369940.94	29369941.16	0.0090	0.0019
Venus	75700-09-06 23:31 G	29370166.27	29370166.48	29370166.70	0.0090	0.0011
Venus	75701-04-20 12:43 G	29370391.81	29370392.03	29370392.25	0.0090	0.0004
Venus	75701-12-02 01:41 G	29370617.35	29370617.57	29370617.79	0.0090	0.0004
Venus	75702-07-15 14:53 G	29370842.90	29370843.12	29370843.33	0.0090	0.0012
Venus	75703-02-26 03:36 G	29371068.45	29371068.65	29371068.87	0.0090	0.0020
Venus	75703-10-09 16:48 G	29371293.99	29371294.20	29371294.41	0.0090	0.0027
Venus	75704-05-22 05:46 G	29371519.55	29371519.74	29371519.95	0.0090	0.0035
Venus	75705-01-02 18:58 G	29371745.10	29371745.29	29371745.48	0.0090	0.0042
Venus	75705-08-16 07:41 G	29371970.65	29371970.82	29371971.01	0.0090	0.0050
Venus	75706-03-29 20:24 G	29372196.21	29372196.35	29372196.54	0.0090	0.0058
Venus	75706-11-10 09:36 G	29372421.77	29372421.90	29372422.07	0.0090	0.0065
Venus	75707-06-23 23:03 G	29372647.34	29372647.46	29372647.59	0.0090	0.0072

Venus	75708-02-04 11:46 G	29372872.91	29372872.99	29372873.11	0.0090	0.0080
Venus	75708-09-17 00:58 G	29373098.50	29373098.54	29373098.60	0.0090	0.0087
Moon	75714-09-26 06:29 G	29375298.69	29375298.77	29375298.90	0.0090	0.0081
Earth	75714-09-26 09:36 G	29375298.84	29375298.90	29375299.00	0.0090	0.0085 *
Earth	75715-09-28 20:53 G	29375666.20	29375666.37	29375666.58	0.0090	0.0059
Moon	75715-09-28 23:31 G	29375666.32	29375666.48	29375666.70	0.0090	0.0063 *
Moon	75716-09-30 07:12 G	29376033.57	29376033.80	29376034.04	0.0090	0.0028
Earth	75716-09-30 08:24 G	29376033.62	29376033.85	29376034.10	0.0090	0.0033 *
Earth	75717-10-02 19:55 G	29376401.08	29376401.33	29376401.59	0.0090	0.0006
Moon	75717-10-02 20:10 G	29376401.09	29376401.34	29376401.61	0.0090	0.0010 *
Earth	75718-10-05 06:58 G	29376768.55	29376768.79	29376769.04	0.0090	0.0020
Moon	75718-10-05 07:27 G	29376768.58	29376768.81	29376769.06	0.0090	0.0024 *
Moon	75719-10-07 15:36 G	29377135.94	29377136.15	29377136.40	0.0090	0.0042
Earth	75719-10-07 18:15 G	29377136.05	29377136.26	29377136.48	0.0090	0.0046 *
Earth	75720-10-09 05:17 G	29377503.58	29377503.72	29377503.88	0.0090	0.0072
Moon	75720-10-09 07:55 G	29377503.71	29377503.83	29377503.97	0.0090	0.0076 *
Mercury	75721-12-12 17:46 G	29377933.19	29377933.24	29377933.31	0.0090	0.0083
Mercury	75722-03-10 19:55 G	29378021.26	29378021.33	29378021.44	0.0090	0.0074
Mercury	75722-06-06 22:48 G	29378109.34	29378109.45	29378109.56	0.0090	0.0064
Mercury	75722-09-03 00:58 G	29378197.42	29378197.54	29378197.68	0.0090	0.0055
Mercury	75722-11-30 03:22 G	29378285.51	29378285.64	29378285.79	0.0090	0.0046
Mercury	75723-02-26 05:46 G	29378373.60	29378373.74	29378373.89	0.0090	0.0036
Mercury	75723-05-25 07:55 G	29378461.69	29378461.83	29378462.00	0.0090	0.0028
Mercury	75723-08-21 10:19 G	29378549.78	29378549.93	29378550.10	0.0090	0.0019
Mercury	75723-11-17 12:43 G	29378637.87	29378638.03	29378638.19	0.0090	0.0009
Mercury	75724-02-13 15:07 G	29378725.97	29378726.13	29378726.29	0.0090	0.0000
Mercury	75724-05-11 17:17 G	29378814.07	29378814.22	29378814.38	0.0090	0.0009
Mercury	75724-08-07 19:41 G	29378902.16	29378902.32	29378902.48	0.0090	0.0018
Mercury	75724-11-03 21:51 G	29378990.26	29378990.41	29378990.57	0.0090	0.0027
Mercury	75725-01-31 00:00 G	29379078.36	29379078.50	29379078.65	0.0090	0.0036

Mercury	75725-04-29 02:10 G	29379166.46	29379166.59	29379166.74	0.0090	0.0045
Mercury	75725-07-26 04:19 G	29379254.57	29379254.68	29379254.82	0.0090	0.0054
Mercury	75725-10-22 06:58 G	29379342.67	29379342.79	29379342.90	0.0090	0.0062
Mercury	75726-01-18 08:53 G	29379430.78	29379430.87	29379430.97	0.0090	0.0071
Mercury	75726-04-16 11:03 G	29379518.90	29379518.96	29379519.04	0.0090	0.0080
Mercury	75726-07-13 12:58 G	29379607.04	29379607.04	29379607.09	0.0090	0.0089
Mars	75746-08-12 13:12 G	29386941.87	29386942.05	29386942.32	0.0089	0.0068
Venus	75776-01-09 03:51 G	29397683.62	29397683.66	29397683.74	0.0088	0.0084
Venus	75776-08-21 17:03 G	29397909.12	29397909.21	29397909.33	0.0088	0.0077
Jupiter	75776-11-30 23:17 G	29398009.93	29398010.47	29398011.01	0.0088	0.0006
Venus	75777-04-04 06:00 G	29398134.64	29398134.75	29398134.91	0.0088	0.0070
Venus	75777-11-15 19:12 G	29398360.17	29398360.30	29398360.48	0.0088	0.0063
Venus	75778-06-29 08:53 G	29398585.70	29398585.87	29398586.04	0.0088	0.0055
Venus	75779-02-09 21:36 G	29398811.23	29398811.40	29398811.60	0.0088	0.0048
Venus	75779-09-23 10:48 G	29399036.76	29399036.95	29399037.15	0.0088	0.0041
Venus	75780-05-05 23:46 G	29399262.30	29399262.49	29399262.71	0.0088	0.0034
Venus	75780-12-17 13:12 G	29399487.84	29399488.05	29399488.27	0.0088	0.0026
Venus	75781-07-31 02:10 G	29399713.38	29399713.59	29399713.81	0.0088	0.0019
Venus	75782-03-13 15:07 G	29399938.91	29399939.13	29399939.36	0.0088	0.0012
Venus	75782-10-25 04:05 G	29400164.45	29400164.67	29400164.90	0.0088	0.0005
Venus	75783-06-07 17:17 G	29400389.99	29400390.22	29400390.44	0.0088	0.0003
Venus	75784-01-19 06:15 G	29400615.54	29400615.76	29400615.98	0.0088	0.0010
Venus	75784-08-31 19:12 G	29400841.08	29400841.30	29400841.52	0.0088	0.0018
Venus	75785-04-14 08:10 G	29401066.63	29401066.84	29401067.06	0.0088	0.0025
Venus	75785-11-25 20:53 G	29401292.18	29401292.37	29401292.59	0.0088	0.0033
Venus	75786-07-09 09:51 G	29401517.73	29401517.91	29401518.13	0.0088	0.0040
Venus	75787-02-19 22:48 G	29401743.28	29401743.45	29401743.65	0.0088	0.0047
Venus	75787-10-03 12:00 G	29401968.83	29401969.00	29401969.18	0.0088	0.0054
Venus	75788-05-16 00:58 G	29402194.39	29402194.54	29402194.71	0.0088	0.0061
Venus	75788-12-27 13:41 G	29402419.96	29402420.07	29402420.23	0.0088	0.0069



Venus	75789-08-10 02:39 G	29402645.53	29402645.61	29402645.75	0.0088	0.0076
Venus	75790-03-23 15:36 G	29402871.10	29402871.15	29402871.25	0.0088	0.0083
Earth	75797-03-27 18:29 G	29405432.19	29405432.27	29405432.40	0.0088	0.0080
Moon	75797-03-27 20:24 G	29405432.25	29405432.35	29405432.52	0.0088	0.0076 *
Moon	75798-03-30 05:46 G	29405799.57	29405799.74	29405799.95	0.0088	0.0059
Earth	75798-03-30 06:43 G	29405799.59	29405799.78	29405800.00	0.0088	0.0055 *
Moon	75799-04-01 18:43 G	29406167.03	29406167.28	29406167.55	0.0088	0.0026
Earth	75799-04-01 18:43 G	29406167.05	29406167.28	29406167.54	0.0088	0.0030 *
Earth	75800-04-04 06:43 G	29406534.52	29406534.78	29406535.05	0.0088	0.0005
Moon	75800-04-04 08:24 G	29406534.60	29406534.85	29406535.11	0.0088	0.0009 *
Moon	75801-04-06 16:05 G	29406901.92	29406902.17	29406902.44	0.0088	0.0025
Earth	75801-04-06 18:43 G	29406902.04	29406902.28	29406902.54	0.0088	0.0021 *
Earth	75802-04-09 06:29 G	29407269.57	29407269.77	29407270.01	0.0088	0.0047
Moon	75802-04-09 09:36 G	29407269.69	29407269.90	29407270.14	0.0088	0.0042 *
Moon	75803-04-11 14:53 G	29407637.01	29407637.12	29407637.27	0.0088	0.0076
Earth	75803-04-11 18:29 G	29407637.15	29407637.27	29407637.45	0.0088	0.0072 *
Mercury	75804-05-29 18:29 G	29408051.25	29408051.27	29408051.33	0.0088	0.0084
Mercury	75804-08-25 20:39 G	29408139.29	29408139.36	29408139.44	0.0088	0.0076
Mercury	75804-11-21 22:34 G	29408227.35	29408227.44	29408227.54	0.0088	0.0068
Mercury	75805-02-18 00:29 G	29408315.41	29408315.52	29408315.64	0.0088	0.0060
Mercury	75805-05-17 02:24 G	29408403.48	29408403.60	29408403.73	0.0088	0.0052
Mercury	75805-08-13 04:34 G	29408491.55	29408491.69	29408491.82	0.0088	0.0044
Mercury	75805-11-09 06:29 G	29408579.63	29408579.77	29408579.91	0.0088	0.0036
Mercury	75806-02-05 08:24 G	29408667.70	29408667.85	29408667.99	0.0088	0.0028
Mercury	75806-05-04 10:19 G	29408755.78	29408755.93	29408756.08	0.0088	0.0020
Mercury	75806-07-31 12:15 G	29408843.86	29408844.01	29408844.16	0.0088	0.0012
Mercury	75806-10-27 14:10 G	29408931.94	29408932.09	29408932.25	0.0088	0.0004
Mercury	75807-01-23 16:05 G	29409020.02	29409020.17	29409020.33	0.0088	0.0005
Mercury	75807-04-21 18:00 G	29409108.10	29409108.25	29409108.41	0.0088	0.0013
Mercury	75807-07-18 20:10 G	29409196.19	29409196.34	29409196.49	0.0088	0.0021

Mercury	75807-10-14 22:05 G	29409284.28	29409284.42	29409284.57	0.0088	0.0029
Mercury	75808-01-11 00:00 G	29409372.37	29409372.50	29409372.65	0.0088	0.0037
Mercury	75808-04-08 01:55 G	29409460.46	29409460.58	29409460.73	0.0088	0.0046
Mercury	75808-07-05 04:05 G	29409548.55	29409548.67	29409548.80	0.0088	0.0054
Mercury	75808-10-01 06:15 G	29409636.65	29409636.76	29409636.87	0.0088	0.0062
Mercury	75808-12-28 07:55 G	29409724.76	29409724.83	29409724.94	0.0088	0.0071
Mercury	75809-03-26 10:05 G	29409812.87	29409812.92	29409813.00	0.0088	0.0079
Mercury	75809-06-22 12:15 G	29409901.01	29409901.01	29409901.03	0.0088	0.0087
Mars	75830-05-03 09:07 G	29417520.64	29417520.88	29417521.17	0.0088	0.0038
Venus	75858-10-07 21:36 G	29427905.39	29427905.40	29427905.46	0.0089	0.0089
Venus	75859-05-21 11:03 G	29428130.88	29428130.96	29428131.06	0.0089	0.0081
Venus	75860-01-01 23:46 G	29428356.39	29428356.49	29428356.63	0.0089	0.0074
Venus	75860-08-14 12:29 G	29428581.90	29428582.02	29428582.19	0.0089	0.0067
Venus	75861-03-28 01:41 G	29428807.41	29428807.57	29428807.74	0.0089	0.0059
Venus	75861-11-08 14:24 G	29429032.94	29429033.10	29429033.29	0.0090	0.0051
Venus	75862-06-22 03:36 G	29429258.47	29429258.65	29429258.85	0.0090	0.0044
Venus	75863-02-02 16:19 G	29429484.00	29429484.18	29429484.40	0.0090	0.0037
Venus	75863-09-16 05:31 G	29429709.53	29429709.73	29429709.94	0.0090	0.0029
Venus	75864-04-28 18:29 G	29429935.06	29429935.27	29429935.49	0.0090	0.0021
Venus	75864-12-10 07:27 G	29430160.60	29430160.81	29430161.03	0.0090	0.0013
Venus	75865-07-23 20:39 G	29430386.14	29430386.36	29430386.58	0.0090	0.0006
Venus	75866-03-06 09:36 G	29430611.68	29430611.90	29430612.12	0.0090	0.0002
Venus	75866-10-17 22:34 G	29430837.22	29430837.44	29430837.66	0.0090	0.0010
Venus	75867-05-31 11:31 G	29431062.78	29431062.98	29431063.20	0.0090	0.0018
Venus	75868-01-12 00:43 G	29431288.32	29431288.53	29431288.74	0.0090	0.0025
Venus	75868-08-24 13:41 G	29431513.87	29431514.07	29431514.28	0.0090	0.0033
Venus	75869-04-07 02:24 G	29431739.42	29431739.60	29431739.81	0.0090	0.0041
Venus	75869-11-18 15:36 G	29431964.97	29431965.15	29431965.34	0.0090	0.0048
Venus	75870-07-02 04:34 G	29432190.54	29432190.69	29432190.88	0.0090	0.0056
Venus	75871-02-12 17:46 G	29432416.09	29432416.24	29432416.40	0.0090	0.0063

Venus	75871-09-26 06:29 G	29432641.66	29432641.77	29432641.92	0.0090	0.0071
Venus	75872-05-08 19:41 G	29432867.22	29432867.32	29432867.44	0.0090	0.0078
Venus	75872-12-20 08:24 G	29433092.81	29433092.85	29433092.94	0.0090	0.0086
Moon	75879-09-29 00:29 G	29435566.38	29435566.52	29435566.69	0.0090	0.0070
Earth	75879-09-29 01:27 G	29435566.43	29435566.56	29435566.74	0.0090	0.0072 *
Moon	75880-09-30 12:43 G	29435933.82	29435934.03	29435934.27	0.0090	0.0047
Earth	75880-09-30 12:58 G	29435933.85	29435934.04	29435934.28	0.0090	0.0046 *
Earth	75881-10-03 00:58 G	29436301.29	29436301.54	29436301.78	0.0090	0.0019
Moon	75881-10-03 02:24 G	29436301.36	29436301.60	29436301.85	0.0090	0.0018 *
Moon	75882-10-05 09:51 G	29436668.65	29436668.91	29436669.17	0.0090	0.0005
Earth	75882-10-05 12:15 G	29436668.76	29436669.01	29436669.26	0.0090	0.0007 *
Earth	75883-10-07 23:31 G	29437036.24	29437036.48	29437036.71	0.0090	0.0033
Moon	75883-10-08 02:39 G	29437036.39	29437036.61	29437036.85	0.0090	0.0035 *
Moon	75884-10-09 06:58 G	29437403.61	29437403.79	29437404.00	0.0090	0.0058
Earth	75884-10-09 10:05 G	29437403.76	29437403.92	29437404.14	0.0090	0.0060 *
Earth	75885-10-11 21:36 G	29437771.34	29437771.40	29437771.49	0.0090	0.0085
Moon	75885-10-12 01:12 G	29437771.51	29437771.55	29437771.61	0.0090	0.0088
Mercury	75886-06-13 13:41 G	29438016.07	29438016.07	29438016.07	0.0090	0.0090
Mercury	75886-09-09 15:36 G	29438104.10	29438104.15	29438104.24	0.0090	0.0081
Mercury	75886-12-06 18:15 G	29438192.17	29438192.26	29438192.37	0.0090	0.0071
Mercury	75887-03-04 20:39 G	29438280.25	29438280.36	29438280.48	0.0090	0.0062
Mercury	75887-05-31 23:03 G	29438368.34	29438368.46	29438368.60	0.0090	0.0053
Mercury	75887-08-28 01:12 G	29438456.42	29438456.55	29438456.71	0.0090	0.0044
Mercury	75887-11-24 03:36 G	29438544.51	29438544.65	29438544.81	0.0090	0.0035
Mercury	75888-02-20 06:15 G	29438632.61	29438632.76	29438632.92	0.0090	0.0025
Mercury	75888-05-18 08:39 G	29438720.70	29438720.86	29438721.02	0.0090	0.0016
Mercury	75888-08-14 10:48 G	29438808.79	29438808.95	29438809.11	0.0090	0.0007
Mercury	75888-11-10 13:12 G	29438896.89	29438897.05	29438897.21	0.0090	0.0002
Mercury	75889-02-06 15:22 G	29438984.99	29438985.14	29438985.30	0.0090	0.0012
Mercury	75889-05-05 17:46 G	29439073.09	29439073.24	29439073.40	0.0090	0.0020

Mercury	75889-08-01 20:10 G	29439161.19	29439161.34	29439161.49	0.0090	0.0029
Mercury	75889-10-28 22:19 G	29439249.29	29439249.43	29439249.57	0.0090	0.0038
Mercury	75890-01-25 00:29 G	29439337.39	29439337.52	29439337.66	0.0090	0.0047
Mercury	75890-04-23 02:39 G	29439425.49	29439425.61	29439425.74	0.0090	0.0056
Mercury	75890-07-20 04:48 G	29439513.60	29439513.70	29439513.82	0.0090	0.0065
Mercury	75890-10-16 07:12 G	29439601.71	29439601.80	29439601.89	0.0090	0.0073
Mercury	75891-01-12 09:22 G	29439689.83	29439689.89	29439689.96	0.0090	0.0082
Mars	75912-02-21 21:22 G	29447399.07	29447399.39	29447399.73	0.0089	0.0023
Venus	75940-04-13 12:00 G	29457677.97	29457678.00	29457678.05	0.0088	0.0086
Venus	75940-11-25 01:12 G	29457903.47	29457903.55	29457903.65	0.0088	0.0079
Venus	75941-07-08 14:10 G	29458128.98	29458129.09	29458129.23	0.0088	0.0072
Venus	75942-02-19 03:07 G	29458354.50	29458354.63	29458354.80	0.0088	0.0065
Venus	75942-10-02 16:19 G	29458580.03	29458580.18	29458580.37	0.0088	0.0058
Jupiter	75943-01-31 06:43 G	29458700.43	29458700.78	29458701.25	0.0088	0.0058
Venus	75943-05-16 05:46 G	29458805.56	29458805.74	29458805.93	0.0088	0.0050
Venus	75943-12-27 18:58 G	29459031.10	29459031.29	29459031.49	0.0088	0.0043
Venus	75944-08-09 07:55 G	29459256.64	29459256.83	29459257.05	0.0088	0.0036
Venus	75945-03-22 21:22 G	29459482.18	29459482.39	29459482.60	0.0088	0.0028
Venus	75945-11-03 10:19 G	29459707.72	29459707.93	29459708.15	0.0088	0.0021
Venus	75946-06-16 23:17 G	29459933.26	29459933.47	29459933.70	0.0088	0.0014
Venus	75947-01-28 12:29 G	29460158.80	29460159.02	29460159.25	0.0088	0.0006
Venus	75947-09-11 01:27 G	29460384.34	29460384.56	29460384.79	0.0088	0.0002
Venus	75948-04-23 14:24 G	29460609.89	29460610.10	29460610.33	0.0088	0.0009
Venus	75948-12-05 03:36 G	29460835.43	29460835.65	29460835.87	0.0088	0.0016
Venus	75949-07-18 16:19 G	29461060.98	29461061.18	29461061.41	0.0088	0.0024
Venus	75950-03-01 05:17 G	29461286.53	29461286.72	29461286.94	0.0088	0.0031
Venus	75950-10-12 18:29 G	29461512.07	29461512.27	29461512.47	0.0088	0.0038
Venus	75951-05-26 07:12 G	29461737.62	29461737.80	29461738.00	0.0088	0.0046
Venus	75952-01-06 20:24 G	29461963.18	29461963.35	29461963.54	0.0088	0.0053
Venus	75952-08-19 09:22 G	29462188.74	29462188.89	29462189.06	0.0088	0.0060

Venus	75953-04-01 22:19 G	29462414.30	29462414.43	29462414.58	0.0088	0.0067
Venus	75953-11-13 11:31 G	29462639.87	29462639.98	29462640.10	0.0088	0.0074
Venus	75954-06-27 00:00 G	29462865.44	29462865.50	29462865.61	0.0088	0.0082
Moon	75961-03-29 00:44 G	29465332.53	29465332.53	29465332.53	0.0088	0.0088
Moon	75962-03-31 11:03 G	29465699.82	29465699.96	29465700.16	0.0088	0.0069
Earth	75962-03-31 12:29 G	29465699.87	29465700.02	29465700.21	0.0088	0.0066 *
Earth	75963-04-03 00:29 G	29466067.30	29466067.52	29466067.76	0.0088	0.0041
Moon	75963-04-03 02:10 G	29466067.38	29466067.59	29466067.83	0.0088	0.0039 *
Moon	75964-04-04 09:22 G	29466434.64	29466434.89	29466435.16	0.0088	0.0019
Earth	75964-04-04 12:29 G	29466434.77	29466435.02	29466435.29	0.0088	0.0016 *
Earth	75965-04-07 00:29 G	29466802.26	29466802.52	29466802.78	0.0088	0.0010
Moon	75965-04-07 03:51 G	29466802.41	29466802.66	29466802.93	0.0088	0.0013 *
Moon	75966-04-09 08:53 G	29467169.64	29467169.87	29467170.12	0.0088	0.0033
Earth	75966-04-09 12:29 G	29467169.79	29467170.02	29467170.27	0.0088	0.0035 *
Earth	75967-04-12 00:15 G	29467537.34	29467537.51	29467537.72	0.0088	0.0060
Moon	75967-04-12 03:51 G	29467537.49	29467537.66	29467537.86	0.0088	0.0062 *
Moon	75968-04-13 09:36 G	29467904.85	29467904.90	29467905.01	0.0088	0.0083
Earth	75968-04-13 12:00 G	29467904.96	29467905.00	29467905.09	0.0088	0.0085 *
Mercury	75969-02-24 17:17 G	29468222.18	29468222.22	29468222.29	0.0088	0.0081
Mercury	75969-05-23 19:12 G	29468310.23	29468310.30	29468310.40	0.0088	0.0073
Mercury	75969-08-19 21:08 G	29468398.29	29468398.38	29468398.49	0.0088	0.0065
Mercury	75969-11-15 23:03 G	29468486.36	29468486.46	29468486.59	0.0088	0.0057
Mercury	75970-02-12 01:12 G	29468574.43	29468574.55	29468574.68	0.0088	0.0049
Mercury	75970-05-11 03:08 G	29468662.50	29468662.63	29468662.77	0.0088	0.0041
Mercury	75970-08-07 05:03 G	29468750.57	29468750.71	29468750.85	0.0088	0.0033
Mercury	75970-11-03 06:58 G	29468838.65	29468838.79	29468838.94	0.0088	0.0025
Mercury	75971-01-30 08:53 G	29468926.72	29468926.87	29468927.02	0.0088	0.0017
Mercury	75971-04-28 10:48 G	29469014.80	29469014.95	29469015.11	0.0088	0.0009
Mercury	75971-07-25 12:58 G	29469102.88	29469103.04	29469103.19	0.0088	0.0002
Mercury	75971-10-21 14:53 G	29469190.96	29469191.12	29469191.27	0.0088	0.0008

Mercury	75972-01-17 16:48 G	29469279.05	29469279.20	29469279.35	0.0088	0.0016
Mercury	75972-04-14 18:44 G	29469367.13	29469367.28	29469367.43	0.0088	0.0024
Mercury	75972-07-11 20:53 G	29469455.22	29469455.37	29469455.51	0.0088	0.0032
Mercury	75972-10-07 22:34 G	29469543.31	29469543.44	29469543.59	0.0088	0.0041
Mercury	75973-01-04 00:44 G	29469631.41	29469631.53	29469631.66	0.0088	0.0049
Mercury	75973-04-02 02:39 G	29469719.50	29469719.61	29469719.74	0.0088	0.0057
Mercury	75973-06-29 04:34 G	29469807.60	29469807.69	29469807.81	0.0088	0.0066
Mercury	75973-09-25 06:44 G	29469895.71	29469895.78	29469895.87	0.0088	0.0074
Mercury	75973-12-22 08:53 G	29469983.82	29469983.87	29469983.93	0.0088	0.0082
Mars	75995-11-11 09:08 G	29477977.64	29477977.88	29477978.16	0.0088	0.0039

# 77TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 77th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	76023-08-23 19:12 G	29488125.25	29488125.30	29488125.40	0.0089	0.0084		
Venus	76024-04-05 08:39 G	29488350.75	29488350.86	29488350.97	0.0089	0.0076		
Venus	76024-11-16 21:08 G	29488576.26	29488576.38	29488576.54	0.0089	0.0069		
Venus	76025-06-30 10:05 G	29488801.78	29488801.92	29488802.10	0.0089	0.0061		
Venus	76026-02-10 23:03 G	29489027.30	29489027.46	29489027.65	0.0089	0.0054		
Venus	76026-09-24 12:15 G	29489252.82	29489253.01	29489253.20	0.0089	0.0046		
Venus	76027-05-08 00:58 G	29489478.35	29489478.54	29489478.75	0.0089	0.0039		
Venus	76027-12-19 14:10 G	29489703.89	29489704.09	29489704.29	0.0090	0.0031		

Venus	76028-08-01 02:53 G	29489929.42	29489929.62	29489929.84	0.0090	0.0023
Venus	76029-03-14 15:51 G	29490154.95	29490155.16	29490155.38	0.0090	0.0016
Venus	76029-10-26 05:03 G	29490380.49	29490380.71	29490380.92	0.0090	0.0008
Venus	76030-06-08 18:00 G	29490606.04	29490606.25	29490606.47	0.0090	0.0001
Venus	76031-01-20 06:58 G	29490831.58	29490831.79	29490832.01	0.0090	0.0008
Venus	76031-09-02 19:56 G	29491057.12	29491057.33	29491057.55	0.0090	0.0015
Venus	76032-04-15 09:08 G	29491282.67	29491282.88	29491283.09	0.0090	0.0023
Venus	76032-11-26 21:51 G	29491508.21	29491508.41	29491508.62	0.0090	0.0031
Venus	76033-07-10 10:48 G	29491733.77	29491733.95	29491734.16	0.0090	0.0039
Venus	76034-02-21 00:15 G	29491959.32	29491959.51	29491959.70	0.0090	0.0046
Venus	76034-10-04 12:58 G	29492184.88	29492185.04	29492185.23	0.0090	0.0054
Venus	76035-05-18 01:56 G	29492410.44	29492410.58	29492410.75	0.0090	0.0062
Venus	76035-12-29 15:08 G	29492636.00	29492636.13	29492636.28	0.0090	0.0069
Venus	76036-08-11 03:51 G	29492861.57	29492861.66	29492861.80	0.0090	0.0077
Venus	76037-03-24 17:03 G	29493087.15	29493087.21	29493087.30	0.0090	0.0084
Moon	76043-09-29 06:15 G	29495466.66	29495466.76	29495466.90	0.0090	0.0080
Earth	76043-09-29 07:12 G	29495466.73	29495466.80	29495466.90	0.0090	0.0084 *
Earth	76044-09-30 18:29 G	29495834.09	29495834.27	29495834.48	0.0090	0.0058
Moon	76044-09-30 20:39 G	29495834.20	29495834.36	29495834.55	0.0090	0.0063 *
Moon	76045-10-03 03:08 G	29496201.39	29496201.63	29496201.88	0.0090	0.0027
Earth	76045-10-03 06:15 G	29496201.53	29496201.76	29496202.00	0.0090	0.0032 *
Earth	76046-10-05 17:32 G	29496568.98	29496569.23	29496569.49	0.0090	0.0006
Moon	76046-10-05 20:39 G	29496569.12	29496569.36	29496569.62	0.0090	0.0011 *
Moon	76047-10-08 00:58 G	29496936.32	29496936.54	29496936.80	0.0090	0.0026
Earth	76047-10-08 04:48 G	29496936.46	29496936.70	29496936.96	0.0090	0.0021 *
Earth	76048-10-09 15:51 G	29497303.96	29497304.16	29497304.40	0.0090	0.0047
Moon	76048-10-09 18:58 G	29497304.08	29497304.29	29497304.53	0.0090	0.0042 *
Moon	76049-10-12 00:29 G	29497671.41	29497671.52	29497671.67	0.0090	0.0077
Earth	76049-10-12 03:36 G	29497671.50	29497671.65	29497671.79	0.0090	0.0072 *
Mercury	76051-03-11 11:17 G	29498186.95	29498186.97	29498187.02	0.0090	0.0088

Mercury	76051-06-07 13:56 G	29498275.01	29498275.08	29498275.17	0.0090	0.0078
Mercury	76051-09-03 16:20 G	29498363.08	29498363.18	29498363.29	0.0090	0.0069
Mercury	76051-11-30 18:29 G	29498451.17	29498451.27	29498451.41	0.0090	0.0060
Mercury	76052-02-26 21:22 G	29498539.25	29498539.39	29498539.52	0.0090	0.0050
Mercury	76052-05-24 23:32 G	29498627.34	29498627.48	29498627.63	0.0090	0.0041
Mercury	76052-08-21 01:56 G	29498715.43	29498715.58	29498715.73	0.0090	0.0032
Mercury	76052-11-17 04:20 G	29498803.52	29498803.68	29498803.84	0.0090	0.0023
Mercury	76053-02-13 06:44 G	29498891.62	29498891.78	29498891.94	0.0090	0.0014
Mercury	76053-05-12 09:08 G	29498979.71	29498979.88	29498980.04	0.0090	0.0005
Mercury	76053-08-08 11:17 G	29499067.81	29499067.97	29499068.13	0.0090	0.0005
Mercury	76053-11-04 13:41 G	29499155.91	29499156.07	29499156.23	0.0090	0.0014
Mercury	76054-01-31 15:51 G	29499244.01	29499244.16	29499244.32	0.0090	0.0023
Mercury	76054-04-29 18:00 G	29499332.11	29499332.25	29499332.41	0.0090	0.0032
Mercury	76054-07-26 20:10 G	29499420.21	29499420.34	29499420.50	0.0090	0.0041
Mercury	76054-10-22 22:20 G	29499508.31	29499508.43	29499508.58	0.0090	0.0050
Mercury	76055-01-19 00:58 G	29499596.42	29499596.54	29499596.66	0.0090	0.0058
Mercury	76055-04-17 03:08 G	29499684.53	29499684.63	29499684.74	0.0090	0.0067
Mercury	76055-07-14 05:03 G	29499772.64	29499772.71	29499772.81	0.0090	0.0076
Mercury	76055-10-10 07:41 G	29499860.77	29499860.82	29499860.87	0.0090	0.0084
Mars	76075-10-04 20:10 G	29507160.09	29507160.34	29507160.64	0.0089	0.0052
Venus	76105-02-27 09:36 G	29517897.83	29517897.90	29517897.99	0.0088	0.0081
Venus	76105-10-10 22:34 G	29518123.34	29518123.44	29518123.57	0.0088	0.0074
Venus	76106-05-24 11:32 G	29518348.86	29518348.98	29518349.14	0.0088	0.0067
Venus	76107-01-05 00:44 G	29518574.39	29518574.53	29518574.72	0.0088	0.0060
Venus	76107-08-18 14:10 G	29518799.92	29518800.09	29518800.28	0.0088	0.0052
Venus	76108-03-31 03:08 G	29519025.45	29519025.63	29519025.84	0.0088	0.0045
Venus	76108-11-11 16:20 G	29519250.99	29519251.18	29519251.40	0.0088	0.0038
Venus	76109-06-25 05:46 G	29519476.53	29519476.74	29519476.95	0.0088	0.0030
Venus	76110-02-05 18:44 G	29519702.07	29519702.28	29519702.50	0.0088	0.0023
Venus	76110-09-19 07:56 G	29519927.61	29519927.83	29519928.05	0.0088	0.0015



Venus	76111-05-02 21:08 G	29520153.16	29520153.38	29520153.60	0.0088	0.0008
Venus	76111-12-14 10:20 G	29520378.71	29520378.93	29520379.15	0.0088	0.0000
Venus	76112-07-26 23:17 G	29520604.25	29520604.47	29520604.70	0.0088	0.0007
Venus	76113-03-09 12:15 G	29520829.79	29520830.01	29520830.23	0.0088	0.0015
Venus	76113-10-21 01:12 G	29521055.34	29521055.55	29521055.77	0.0088	0.0022
Venus	76114-06-03 13:56 G	29521280.89	29521281.08	29521281.31	0.0088	0.0030
Venus	76115-01-15 03:08 G	29521506.44	29521506.63	29521506.85	0.0088	0.0037
Venus	76115-08-28 16:20 G	29521731.99	29521732.18	29521732.38	0.0088	0.0044
Venus	76116-04-10 04:48 G	29521957.54	29521957.70	29521957.90	0.0088	0.0052
Venus	76116-11-21 18:00 G	29522183.10	29522183.25	29522183.43	0.0088	0.0059
Venus	76117-07-05 06:58 G	29522408.66	29522408.79	29522408.95	0.0088	0.0066
Venus	76118-02-15 20:10 G	29522634.23	29522634.34	29522634.47	0.0088	0.0073
Venus	76118-09-29 08:39 G	29522859.80	29522859.86	29522859.97	0.0088	0.0081
Venus	76119-05-12 21:51 G	29523085.41	29523085.41	29523085.44	0.0088	0.0087
Earth	76126-03-31 18:00 G	29525600.15	29525600.25	29525600.40	0.0088	0.0077
Moon	76126-03-31 20:53 G	29525600.26	29525600.37	29525600.53	0.0088	0.0074 *
Moon	76127-04-03 02:53 G	29525967.43	29525967.62	29525967.85	0.0088	0.0055
Earth	76127-04-03 06:00 G	29525967.56	29525967.75	29525967.99	0.0088	0.0052 *
Earth	76128-04-04 18:00 G	29526335.01	29526335.25	29526335.51	0.0088	0.0027
Moon	76128-04-04 21:51 G	29526335.17	29526335.41	29526335.67	0.0088	0.0023 *
Moon	76129-04-07 03:08 G	29526702.37	29526702.63	29526702.89	0.0088	0.0005
Earth	76129-04-07 06:29 G	29526702.51	29526702.77	29526703.03	0.0088	0.0002 *
Earth	76130-04-09 18:00 G	29527070.01	29527070.25	29527070.52	0.0088	0.0024
Moon	76130-04-09 21:22 G	29527070.14	29527070.39	29527070.64	0.0088	0.0027 *
Moon	76131-04-12 03:36 G	29527437.45	29527437.65	29527437.89	0.0088	0.0045
Earth	76131-04-12 05:46 G	29527437.54	29527437.74	29527437.98	0.0088	0.0049 *
Earth	76132-04-13 18:15 G	29527805.12	29527805.26	29527805.40	0.0088	0.0073
Moon	76132-04-13 18:15 G	29527805.16	29527805.26	29527805.42	0.0088	0.0077 *
Mercury	76133-08-26 14:24 G	29528305.07	29528305.10	29528305.14	0.0088	0.0085
Mercury	76133-11-22 16:20 G	29528393.11	29528393.18	29528393.25	0.0088	0.0077

Mercury	76134-02-18 18:00 G	29528481.17	29528481.25	29528481.35	0.0088	0.0069
Mercury	76134-05-17 19:56 G	29528569.23	29528569.33	29528569.45	0.0088	0.0062
Mercury	76134-08-13 21:51 G	29528657.30	29528657.41	29528657.54	0.0088	0.0054
Mercury	76134-11-09 23:46 G	29528745.37	29528745.49	29528745.63	0.0088	0.0046
Mercury	76135-02-06 01:41 G	29528833.44	29528833.57	29528833.72	0.0088	0.0038
Mercury	76135-05-05 03:36 G	29528921.51	29528921.65	29528921.80	0.0088	0.0030
Mercury	76135-08-01 05:32 G	29529009.59	29529009.73	29529009.89	0.0088	0.0022
Mercury	76135-10-28 07:41 G	29529097.67	29529097.82	29529097.97	0.0088	0.0013
Mercury	76136-01-24 09:36 G	29529185.75	29529185.90	29529186.06	0.0088	0.0005
Mercury	76136-04-21 11:32 G	29529273.83	29529273.98	29529274.14	0.0088	0.0003
Mercury	76136-07-18 13:27 G	29529361.91	29529362.06	29529362.22	0.0088	0.0011
Mercury	76136-10-14 15:36 G	29529450.00	29529450.15	29529450.30	0.0088	0.0019
Mercury	76137-01-10 17:17 G	29529538.08	29529538.22	29529538.38	0.0088	0.0028
Mercury	76137-04-08 19:27 G	29529626.17	29529626.31	29529626.46	0.0088	0.0036
Mercury	76137-07-05 21:22 G	29529714.26	29529714.39	29529714.53	0.0088	0.0044
Mercury	76137-10-01 23:32 G	29529802.36	29529802.48	29529802.61	0.0088	0.0052
Mercury	76137-12-29 01:12 G	29529890.45	29529890.55	29529890.68	0.0088	0.0061
Mercury	76138-03-27 03:22 G	29529978.56	29529978.64	29529978.75	0.0088	0.0069
Mercury	76138-06-23 05:32 G	29530066.66	29530066.73	29530066.81	0.0088	0.0077
Mercury	76138-09-19 07:27 G	29530154.79	29530154.81	29530154.85	0.0088	0.0086
Mars	76159-06-27 20:10 G	29537741.06	29537741.34	29537741.63	0.0088	0.0020
Venus	76187-11-26 04:34 G	29548119.64	29548119.69	29548119.76	0.0089	0.0086
Venus	76188-07-08 17:17 G	29548345.14	29548345.22	29548345.34	0.0089	0.0079
Venus	76189-02-19 06:29 G	29548570.65	29548570.77	29548570.91	0.0089	0.0071
Venus	76189-10-02 18:58 G	29548796.16	29548796.29	29548796.47	0.0089	0.0064
Venus	76190-05-16 08:10 G	29549021.68	29549021.84	29549022.02	0.0089	0.0056
Venus	76190-12-27 20:53 G	29549247.21	29549247.37	29549247.57	0.0089	0.0049
Venus	76191-08-10 10:05 G	29549472.73	29549472.92	29549473.12	0.0089	0.0041
Venus	76192-03-22 23:03 G	29549698.26	29549698.46	29549698.66	0.0090	0.0033
Venus	76192-11-03 11:46 G	29549923.79	29549923.99	29549924.21	0.0090	0.0025

Venus	76193-06-17 00:58 G	29550149.33	29550149.54	29550149.76	0.0090	0.0017
Venus	76194-01-28 13:56 G	29550374.86	29550375.08	29550375.30	0.0090	0.0010
Venus	76194-09-11 02:53 G	29550600.40	29550600.62	29550600.83	0.0090	0.0002
Venus	76195-04-24 15:36 G	29550825.94	29550826.15	29550826.37	0.0090	0.0006
Venus	76195-12-06 04:34 G	29551051.48	29551051.69	29551051.91	0.0090	0.0013
Venus	76196-07-18 17:32 G	29551277.03	29551277.23	29551277.45	0.0090	0.0021
Venus	76197-03-01 06:29 G	29551502.57	29551502.77	29551502.98	0.0090	0.0029
Venus	76197-10-12 19:27 G	29551728.12	29551728.31	29551728.52	0.0090	0.0037
Venus	76198-05-26 08:24 G	29551953.68	29551953.85	29551954.05	0.0090	0.0045
Venus	76199-01-06 21:36 G	29552179.23	29552179.40	29552179.59	0.0090	0.0052
Venus	76199-08-20 10:34 G	29552404.79	29552404.94	29552405.12	0.0090	0.0060
Venus	76200-04-02 23:17 G	29552630.35	29552630.47	29552630.64	0.0090	0.0068
Venus	76200-11-14 12:44 G	29552855.92	29552856.03	29552856.16	0.0090	0.0075
Venus	76201-06-28 01:27 G	29553081.51	29553081.56	29553081.67	0.0090	0.0083
Moon	76208-10-01 21:36 G	29555734.26	29555734.40	29555734.58	0.0090	0.0070
Earth	76208-10-02 00:58 G	29555734.40	29555734.54	29555734.71	0.0090	0.0070 *
Earth	76209-10-04 12:15 G	29556101.80	29556102.01	29556102.24	0.0090	0.0044
Moon	76209-10-04 15:51 G	29556101.95	29556102.16	29556102.39	0.0090	0.0044 *
Moon	76210-10-06 20:24 G	29556469.11	29556469.35	29556469.61	0.0090	0.0018
Earth	76210-10-07 00:00 G	29556469.25	29556469.50	29556469.75	0.0090	0.0018 *
Earth	76211-10-09 11:17 G	29556836.72	29556836.97	29556837.22	0.0090	0.0008
Moon	76211-10-09 14:24 G	29556836.84	29556837.10	29556837.36	0.0090	0.0007 *
Moon	76212-10-10 21:08 G	29557204.15	29557204.38	29557204.61	0.0090	0.0034
Earth	76212-10-10 22:34 G	29557204.21	29557204.44	29557204.68	0.0090	0.0034 *
Earth	76213-10-13 09:51 G	29557571.73	29557571.91	29557572.11	0.0090	0.0060
Moon	76213-10-13 10:34 G	29557571.76	29557571.94	29557572.15	0.0090	0.0059 *
Earth	76214-10-15 20:53 G	29557939.32	29557939.37	29557939.46	0.0090	0.0086
Moon	76214-10-15 21:22 G	29557939.34	29557939.39	29557939.46	0.0090	0.0087 *
Mercury	76215-12-08 09:51 G	29558357.86	29558357.91	29558357.97	0.0090	0.0084
Mercury	76216-03-05 12:15 G	29558445.93	29558446.01	29558446.11	0.0090	0.0075

Mercury	76216-06-01 14:24 G	29558534.01	29558534.10	29558534.23	0.0090	0.0066
Mercury	76216-08-28 17:17 G	29558622.09	29558622.22	29558622.35	0.0090	0.0056
Mercury	76216-11-24 19:27 G	29558710.18	29558710.31	29558710.46	0.0090	0.0047
Mercury	76217-02-20 21:51 G	29558798.27	29558798.41	29558798.57	0.0090	0.0038
Mercury	76217-05-20 00:15 G	29558886.36	29558886.51	29558886.67	0.0090	0.0029
Mercury	76217-08-16 02:39 G	29558974.46	29558974.61	29558974.77	0.0090	0.0020
Mercury	76217-11-12 05:03 G	29559062.55	29559062.71	29559062.87	0.0090	0.0010
Mercury	76218-02-08 07:27 G	29559150.65	29559150.81	29559150.97	0.0090	0.0001
Mercury	76218-05-07 09:51 G	29559238.75	29559238.91	29559239.07	0.0090	0.0008
Mercury	76218-08-03 12:00 G	29559326.84	29559327.00	29559327.16	0.0090	0.0017
Mercury	76218-10-30 14:10 G	29559414.94	29559415.09	29559415.25	0.0090	0.0026
Mercury	76219-01-26 16:34 G	29559503.05	29559503.19	29559503.34	0.0090	0.0035
Mercury	76219-04-24 18:44 G	29559591.15	29559591.28	29559591.43	0.0090	0.0044
Mercury	76219-07-21 20:53 G	29559679.25	29559679.37	29559679.51	0.0090	0.0053
Mercury	76219-10-17 23:03 G	29559767.36	29559767.46	29559767.59	0.0090	0.0062
Mercury	76220-01-14 01:27 G	29559855.47	29559855.56	29559855.67	0.0090	0.0070
Mercury	76220-04-11 03:36 G	29559943.59	29559943.65	29559943.74	0.0090	0.0079
Mercury	76220-07-08 05:46 G	29560031.72	29560031.74	29560031.79	0.0090	0.0088
Mars	76241-04-15 06:00 G	29567617.46	29567617.75	29567618.07	0.0089	0.0040
Venus	76269-06-01 17:46 G	29577892.20	29577892.24	29577892.33	0.0088	0.0084
Venus	76270-01-13 07:12 G	29578117.70	29578117.80	29578117.92	0.0088	0.0076
Venus	76270-08-26 20:10 G	29578343.22	29578343.34	29578343.49	0.0088	0.0069
Venus	76271-04-09 09:08 G	29578568.74	29578568.88	29578569.06	0.0088	0.0062
Venus	76271-11-20 22:48 G	29578794.28	29578794.45	29578794.63	0.0088	0.0054
Venus	76272-07-03 11:46 G	29579019.81	29579019.99	29579020.19	0.0088	0.0047
Venus	76273-02-14 00:44 G	29579245.35	29579245.53	29579245.74	0.0088	0.0040
Venus	76273-09-27 13:56 G	29579470.88	29579471.08	29579471.30	0.0088	0.0032
Venus	76274-05-11 03:08 G	29579696.42	29579696.63	29579696.85	0.0088	0.0025
Venus	76274-12-22 16:34 G	29579921.97	29579922.19	29579922.41	0.0088	0.0017
Venus	76275-08-05 05:32 G	29580147.52	29580147.73	29580147.96	0.0088	0.0010

Venus	76276-03-17 18:44 G	29580373.06	29580373.28	29580373.51	0.0088	0.0003
Venus	76276-10-29 07:56 G	29580598.61	29580598.83	29580599.05	0.0088	0.0005
Venus	76277-06-11 20:53 G	29580824.16	29580824.37	29580824.60	0.0088	0.0013
Venus	76278-01-23 10:05 G	29581049.71	29581049.92	29581050.14	0.0088	0.0021
Venus	76278-09-05 23:03 G	29581275.26	29581275.46	29581275.68	0.0088	0.0028
Venus	76279-04-19 12:00 G	29581500.81	29581501.00	29581501.22	0.0088	0.0036
Venus	76279-12-01 01:12 G	29581726.36	29581726.55	29581726.75	0.0088	0.0043
Venus	76280-07-13 14:24 G	29581951.92	29581952.10	29581952.28	0.0088	0.0050
Venus	76281-02-24 02:53 G	29582177.47	29582177.62	29582177.81	0.0088	0.0058
Venus	76281-10-07 16:05 G	29582403.03	29582403.17	29582403.33	0.0088	0.0065
Venus	76282-05-21 05:03 G	29582628.60	29582628.71	29582628.85	0.0088	0.0072
Venus	76283-01-01 18:29 G	29582854.18	29582854.27	29582854.36	0.0088	0.0079
Venus	76283-08-15 06:44 G	29583079.78	29583079.78	29583079.85	0.0088	0.0087
Moon	76290-03-31 20:39 G	29585500.30	29585500.36	29585500.47	0.0088	0.0083
Earth	76290-04-01 00:44 G	29585500.52	29585500.53	29585500.58	0.0088	0.0087
Earth	76291-04-03 12:44 G	29585867.85	29585868.03	29585868.22	0.0088	0.0062
Moon	76291-04-03 16:05 G	29585868.01	29585868.17	29585868.36	0.0088	0.0066 *
Moon	76292-04-04 21:22 G	29586235.16	29586235.39	29586235.64	0.0088	0.0034
Earth	76292-04-05 00:29 G	29586235.31	29586235.52	29586235.78	0.0088	0.0038 *
Earth	76293-04-07 12:44 G	29586602.78	29586603.03	29586603.30	0.0088	0.0013
Moon	76293-04-07 15:08 G	29586602.88	29586603.13	29586603.41	0.0088	0.0017 *
Moon	76294-04-09 23:17 G	29586970.23	29586970.47	29586970.73	0.0088	0.0016
Earth	76294-04-10 00:44 G	29586970.27	29586970.53	29586970.79	0.0088	0.0012 *
Earth	76295-04-12 12:15 G	29587337.79	29587338.01	29587338.27	0.0088	0.0038
Moon	76295-04-12 13:12 G	29587337.80	29587338.05	29587338.30	0.0088	0.0034 *
Earth	76296-04-14 00:29 G	29587705.35	29587705.52	29587705.71	0.0088	0.0062
Moon	76296-04-14 01:41 G	29587705.42	29587705.57	29587705.75	0.0088	0.0066 *
Moon	76297-04-16 09:51 G	29588072.86	29588072.91	29588073.02	0.0088	0.0084
Earth	76297-04-16 12:15 G	29588073.00	29588073.01	29588073.06	0.0088	0.0087 *
Mercury	76298-05-24 12:58 G	29588476.00	29588476.04	29588476.11	0.0088	0.0082

Mercury	76298-08-20 14:53 G	29588564.06	29588564.12	29588564.22	0.0088	0.0074
Mercury	76298-11-16 16:48 G	29588652.11	29588652.20	29588652.31	0.0088	0.0066
Mercury	76299-02-12 18:58 G	29588740.18	29588740.29	29588740.41	0.0088	0.0058
Mercury	76299-05-11 20:53 G	29588828.25	29588828.37	29588828.50	0.0088	0.0050
Mercury	76299-08-07 22:48 G	29588916.32	29588916.45	29588916.58	0.0088	0.0042
Mercury	76299-11-04 00:44 G	29589004.39	29589004.53	29589004.67	0.0088	0.0034
Mercury	76300-01-31 02:39 G	29589092.46	29589092.61	29589092.76	0.0088	0.0026
Mercury	76300-04-29 04:34 G	29589180.54	29589180.69	29589180.84	0.0088	0.0018
Mercury	76300-07-26 06:29 G	29589268.62	29589268.77	29589268.92	0.0088	0.0010
Mercury	76300-10-22 08:24 G	29589356.70	29589356.85	29589357.01	0.0088	0.0002
Mercury	76301-01-18 10:20 G	29589444.78	29589444.93	29589445.09	0.0088	0.0006
Mercury	76301-04-16 12:15 G	29589532.86	29589533.01	29589533.17	0.0088	0.0015
Mercury	76301-07-13 14:10 G	29589620.95	29589621.09	29589621.25	0.0088	0.0023
Mercury	76301-10-09 16:20 G	29589709.03	29589709.18	29589709.32	0.0088	0.0031
Mercury	76302-01-05 18:15 G	29589797.12	29589797.26	29589797.40	0.0088	0.0039
Mercury	76302-04-03 19:56 G	29589885.22	29589885.33	29589885.48	0.0088	0.0048
Mercury	76302-06-30 22:05 G	29589973.31	29589973.42	29589973.55	0.0088	0.0056
Mercury	76302-09-27 00:15 G	29590061.41	29590061.51	29590061.62	0.0088	0.0064
Mercury	76302-12-24 01:56 G	29590149.51	29590149.58	29590149.69	0.0088	0.0073
Mercury	76303-03-22 04:05 G	29590237.63	29590237.67	29590237.74	0.0088	0.0081
Mars	76323-02-12 09:22 G	29597504.78	29597504.89	29597505.05	0.0088	0.0079
Mars	76325-01-05 22:20 G	29598198.23	29598198.43	29598198.67	0.0088	0.0058
Venus	76352-02-29 14:24 G	29608114.06	29608114.10	29608114.13	0.0089	0.0088
Venus	76352-10-12 02:53 G	29608339.54	29608339.62	29608339.73	0.0089	0.0081
Venus	76353-05-25 16:20 G	29608565.06	29608565.18	29608565.30	0.0089	0.0073
Venus	76354-01-06 04:48 G	29608790.57	29608790.70	29608790.87	0.0089	0.0066
Venus	76354-08-19 18:00 G	29609016.09	29609016.25	29609016.42	0.0089	0.0058
Venus	76355-04-02 06:29 G	29609241.61	29609241.77	29609241.97	0.0089	0.0051
Venus	76355-11-13 19:41 G	29609467.14	29609467.32	29609467.52	0.0089	0.0043
Venus	76356-06-26 08:53 G	29609692.67	29609692.87	29609693.07	0.0089	0.0035

Venus	76357-02-06 21:36 G	29609918.20	29609918.40	29609918.62	0.0089	0.0027
Venus	76357-09-20 10:34 G	29610143.73	29610143.94	29610144.16	0.0090	0.0019
Venus	76358-05-03 23:32 G	29610369.27	29610369.48	29610369.70	0.0090	0.0012
Venus	76358-12-15 12:29 G	29610594.80	29610595.02	29610595.24	0.0090	0.0004
Venus	76359-07-29 01:27 G	29610820.34	29610820.56	29610820.78	0.0090	0.0004
Venus	76360-03-10 14:10 G	29611045.88	29611046.09	29611046.31	0.0090	0.0012
Venus	76360-10-22 03:08 G	29611271.42	29611271.63	29611271.85	0.0090	0.0020
Venus	76361-06-04 16:05 G	29611496.97	29611497.17	29611497.38	0.0090	0.0027
Venus	76362-01-16 05:17 G	29611722.52	29611722.72	29611722.92	0.0090	0.0035
Venus	76362-08-29 18:00 G	29611948.07	29611948.25	29611948.45	0.0090	0.0043
Venus	76363-04-12 06:44 G	29612173.62	29612173.78	29612173.98	0.0090	0.0051
Venus	76363-11-23 19:41 G	29612399.17	29612399.32	29612399.50	0.0090	0.0059
Venus	76364-07-06 09:08 G	29612624.74	29612624.88	29612625.03	0.0090	0.0066
Venus	76365-02-16 21:51 G	29612850.31	29612850.41	29612850.55	0.0090	0.0074
Venus	76365-09-30 11:17 G	29613075.88	29613075.97	29613076.06	0.0090	0.0081
Venus	76366-05-13 23:46 G	29613301.48	29613301.49	29613301.54	0.0090	0.0089
Earth	76372-10-02 07:41 G	29615634.74	29615634.82	29615634.95	0.0090	0.0082
Moon	76372-10-02 11:17 G	29615634.87	29615634.97	29615635.13	0.0090	0.0077 *
Moon	76373-10-04 16:05 G	29616002.01	29616002.17	29616002.37	0.0090	0.0061
Earth	76373-10-04 19:12 G	29616002.12	29616002.30	29616002.52	0.0090	0.0056 *
Earth	76374-10-07 06:44 G	29616369.55	29616369.78	29616370.02	0.0090	0.0030
Moon	76374-10-07 08:53 G	29616369.63	29616369.87	29616370.13	0.0090	0.0026 *
Moon	76375-10-09 16:20 G	29616736.94	29616737.18	29616737.43	0.0090	0.0009
Earth	76375-10-09 18:00 G	29616737.00	29616737.25	29616737.51	0.0090	0.0004 *
Moon	76376-10-11 05:03 G	29617104.47	29617104.71	29617104.97	0.0090	0.0027
Earth	76376-10-11 05:17 G	29617104.48	29617104.72	29617104.97	0.0090	0.0022 *
Earth	76377-10-13 16:34 G	29617471.98	29617472.19	29617472.41	0.0090	0.0048
Moon	76377-10-13 17:32 G	29617472.03	29617472.23	29617472.46	0.0090	0.0044 *
Moon	76378-10-16 01:27 G	29617839.47	29617839.56	29617839.72	0.0090	0.0079
Earth	76378-10-16 03:36 G	29617839.53	29617839.65	29617839.82	0.0090	0.0074 *

Mercury	76380-09-04 08:10 G	29618528.78	29618528.84	29618528.92	0.0090	0.0081
Mercury	76380-12-01 10:48 G	29618616.85	29618616.95	29618617.05	0.0090	0.0071
Mercury	76381-02-27 13:12 G	29618704.94	29618705.05	29618705.17	0.0090	0.0062
Mercury	76381-05-26 15:22 G	29618793.02	29618793.14	29618793.29	0.0090	0.0053
Mercury	76381-08-22 17:46 G	29618881.11	29618881.24	29618881.40	0.0090	0.0044
Mercury	76381-11-18 20:24 G	29618969.20	29618969.35	29618969.50	0.0090	0.0034
Mercury	76382-02-14 22:48 G	29619057.30	29619057.45	29619057.61	0.0090	0.0025
Mercury	76382-05-14 01:12 G	29619145.39	29619145.55	29619145.71	0.0090	0.0016
Mercury	76382-08-10 03:36 G	29619233.49	29619233.65	29619233.81	0.0090	0.0007
Mercury	76382-11-06 06:00 G	29619321.59	29619321.75	29619321.91	0.0090	0.0003
Mercury	76383-02-02 08:10 G	29619409.69	29619409.84	29619410.00	0.0090	0.0012
Mercury	76383-05-01 10:34 G	29619497.78	29619497.94	29619498.10	0.0090	0.0020
Mercury	76383-07-28 12:44 G	29619585.89	29619586.03	29619586.19	0.0090	0.0030
Mercury	76383-10-24 14:53 G	29619673.99	29619674.12	29619674.28	0.0090	0.0039
Mercury	76384-01-20 17:17 G	29619762.09	29619762.22	29619762.36	0.0090	0.0047
Mercury	76384-04-17 19:41 G	29619850.20	29619850.32	29619850.45	0.0090	0.0056
Mercury	76384-07-14 21:51 G	29619938.31	29619938.41	29619938.53	0.0090	0.0065
Mercury	76384-10-11 00:00 G	29620026.42	29620026.50	29620026.60	0.0090	0.0074
Mercury	76385-01-07 02:10 G	29620114.54	29620114.59	29620114.66	0.0090	0.0083
Mars	76404-11-27 07:27 G	29627378.52	29627378.81	29627379.15	0.0089	0.0034
Venus	76433-09-04 02:53 G	29637886.59	29637886.62	29637886.69	0.0088	0.0086
Venus	76434-04-17 16:20 G	29638112.09	29638112.18	29638112.29	0.0088	0.0078
Venus	76434-11-29 05:17 G	29638337.61	29638337.72	29638337.87	0.0088	0.0071
Venus	76435-07-12 18:15 G	29638563.13	29638563.26	29638563.44	0.0088	0.0064
Venus	76436-02-23 07:41 G	29638788.66	29638788.82	29638789.00	0.0088	0.0056
Venus	76436-10-05 20:39 G	29639014.19	29639014.36	29639014.56	0.0088	0.0049
Venus	76437-05-19 10:05 G	29639239.72	29639239.92	29639240.12	0.0088	0.0041
Venus	76437-12-30 23:03 G	29639465.27	29639465.46	29639465.68	0.0088	0.0034
Venus	76438-08-13 12:29 G	29639690.81	29639691.02	29639691.23	0.0088	0.0026
Venus	76439-03-27 01:12 G	29639916.34	29639916.55	29639916.78	0.0088	0.0019



Venus	76439-11-07 14:39 G	29640141.89	29640142.11	29640142.33	0.0088	0.0011
Venus	76440-06-20 03:51 G	29640367.43	29640367.66	29640367.88	0.0088	0.0004
Venus	76441-01-31 16:48 G	29640592.98	29640593.20	29640593.43	0.0088	0.0004
Venus	76441-09-14 05:46 G	29640818.53	29640818.74	29640818.97	0.0088	0.0012
Venus	76442-04-27 18:58 G	29641044.08	29641044.29	29641044.51	0.0088	0.0019
Venus	76442-12-09 08:10 G	29641269.63	29641269.84	29641270.06	0.0088	0.0027
Venus	76443-07-22 21:22 G	29641495.19	29641495.39	29641495.60	0.0088	0.0034
Venus	76444-03-04 10:05 G	29641720.74	29641720.92	29641721.13	0.0088	0.0042
Venus	76444-10-15 23:17 G	29641946.29	29641946.47	29641946.66	0.0088	0.0049
Venus	76445-05-29 12:29 G	29642171.85	29642172.02	29642172.19	0.0088	0.0056
Venus	76446-01-10 01:12 G	29642397.42	29642397.55	29642397.72	0.0088	0.0064
Venus	76446-08-23 14:24 G	29642622.98	29642623.10	29642623.24	0.0088	0.0071
Venus	76447-04-06 03:36 G	29642848.55	29642848.65	29642848.75	0.0088	0.0078
Venus	76447-11-17 16:05 G	29643074.15	29643074.17	29643074.24	0.0088	0.0086
Moon	76455-04-03 16:34 G	29645768.06	29645768.19	29645768.35	0.0088	0.0071
Earth	76455-04-03 18:58 G	29645768.17	29645768.29	29645768.46	0.0088	0.0073 *
Earth	76456-04-05 07:12 G	29646135.60	29646135.80	29646136.04	0.0088	0.0048
Moon	76456-04-05 09:22 G	29646135.69	29646135.89	29646136.13	0.0088	0.0051 *
Moon	76457-04-07 18:44 G	29646503.04	29646503.28	29646503.54	0.0088	0.0021
Earth	76457-04-07 19:27 G	29646503.07	29646503.31	29646503.57	0.0088	0.0023 *
Moon	76458-04-10 06:58 G	29646870.52	29646870.79	29646871.06	0.0088	0.0001
Earth	76458-04-10 07:41 G	29646870.56	29646870.82	29646871.08	0.0088	0.0002 *
Earth	76459-04-12 19:27 G	29647238.07	29647238.31	29647238.57	0.0088	0.0027
Moon	76459-04-12 20:53 G	29647238.14	29647238.37	29647238.62	0.0088	0.0030 *
Moon	76460-04-14 04:48 G	29647605.48	29647605.70	29647605.92	0.0088	0.0049
Earth	76460-04-14 07:27 G	29647605.61	29647605.81	29647606.04	0.0088	0.0052 *
Earth	76461-04-16 18:58 G	29647973.19	29647973.29	29647973.45	0.0088	0.0077
Moon	76461-04-16 22:34 G	29647973.35	29647973.44	29647973.57	0.0088	0.0079 *
Mercury	76462-11-23 10:34 G	29648558.91	29648558.94	29648558.98	0.0088	0.0085
Mercury	76463-02-19 12:00 G	29648646.95	29648647.00	29648647.09	0.0088	0.0078

Mercury	76463-05-18 13:56 G	29648735.01	29648735.08	29648735.19	0.0088	0.0070
Mercury	76463-08-14 15:51 G	29648823.07	29648823.16	29648823.28	0.0088	0.0062
Mercury	76463-11-10 17:46 G	29648911.13	29648911.24	29648911.37	0.0088	0.0054
Mercury	76464-02-06 19:41 G	29648999.20	29648999.32	29648999.46	0.0088	0.0046
Mercury	76464-05-04 21:51 G	29649087.27	29649087.41	29649087.55	0.0088	0.0038
Mercury	76464-07-31 23:46 G	29649175.34	29649175.49	29649175.63	0.0088	0.0030
Mercury	76464-10-28 01:41 G	29649263.42	29649263.57	29649263.72	0.0088	0.0022
Mercury	76465-01-24 03:36 G	29649351.50	29649351.65	29649351.80	0.0088	0.0014
Mercury	76465-04-22 05:32 G	29649439.57	29649439.73	29649439.88	0.0088	0.0006
Mercury	76465-07-19 07:27 G	29649527.65	29649527.81	29649527.96	0.0088	0.0002
Mercury	76465-10-15 09:22 G	29649615.74	29649615.89	29649616.04	0.0088	0.0010
Mercury	76466-01-11 11:17 G	29649703.82	29649703.97	29649704.12	0.0088	0.0018
Mercury	76466-04-09 13:12 G	29649791.91	29649792.05	29649792.20	0.0088	0.0027
Mercury	76466-07-06 15:08 G	29649879.99	29649880.13	29649880.28	0.0088	0.0035
Mercury	76466-10-02 17:17 G	29649968.08	29649968.22	29649968.35	0.0088	0.0043
Mercury	76466-12-29 18:58 G	29650056.18	29650056.29	29650056.43	0.0088	0.0052
Mercury	76467-03-27 21:08 G	29650144.27	29650144.38	29650144.50	0.0088	0.0060
Mercury	76467-06-23 23:17 G	29650232.37	29650232.47	29650232.57	0.0088	0.0068
Mercury	76467-09-20 00:58 G	29650320.48	29650320.54	29650320.63	0.0088	0.0077
Mercury	76467-12-17 03:08 G	29650408.60	29650408.63	29650408.68	0.0088	0.0085
Mars	76488-08-21 12:58 G	29657961.75	29657962.04	29657962.33	0.0088	0.0000
Venus	76517-01-14 12:58 G	29668333.97	29668334.04	29668334.13	0.0089	0.0083
Venus	76517-08-28 01:27 G	29668559.47	29668559.56	29668559.71	0.0089	0.0076
Venus	76518-04-10 14:39 G	29668784.98	29668785.11	29668785.27	0.0089	0.0068
Jupiter	76518-09-08 21:36 G	29668935.95	29668936.40	29668936.92	0.0089	0.0043
Venus	76518-11-22 03:51 G	29669010.50	29669010.66	29669010.82	0.0089	0.0060
Venus	76519-07-05 16:34 G	29669236.03	29669236.19	29669236.38	0.0089	0.0052
Venus	76520-02-16 05:32 G	29669461.55	29669461.73	29669461.93	0.0089	0.0045
Venus	76520-09-28 18:29 G	29669687.08	29669687.27	29669687.48	0.0089	0.0037
Venus	76521-05-12 07:41 G	29669912.61	29669912.82	29669913.03	0.0089	0.0029

Venus	76521-12-23 20:24 G	29670138.15	29670138.35	29670138.57	0.0089	0.0021
Venus	76522-08-06 09:22 G	29670363.68	29670363.89	29670364.11	0.0089	0.0014
Venus	76523-03-19 22:20 G	29670589.22	29670589.43	29670589.65	0.0090	0.0006
Venus	76523-10-31 11:17 G	29670814.75	29670814.97	29670815.19	0.0090	0.0002
Venus	76524-06-13 00:15 G	29671040.30	29671040.51	29671040.73	0.0090	0.0010
Venus	76525-01-24 13:12 G	29671265.84	29671266.05	29671266.27	0.0090	0.0018
Venus	76525-09-07 01:56 G	29671491.38	29671491.58	29671491.80	0.0090	0.0026
Venus	76526-04-20 14:53 G	29671716.92	29671717.12	29671717.33	0.0090	0.0034
Venus	76526-12-02 03:36 G	29671942.47	29671942.65	29671942.86	0.0090	0.0042
Venus	76527-07-15 17:03 G	29672168.03	29672168.21	29672168.39	0.0090	0.0049
Venus	76528-02-26 05:46 G	29672393.58	29672393.74	29672393.92	0.0090	0.0057
Venus	76528-10-08 18:29 G	29672619.14	29672619.27	29672619.44	0.0090	0.0065
Venus	76529-05-22 07:27 G	29672844.71	29672844.81	29672844.96	0.0090	0.0073
Venus	76530-01-02 20:39 G	29673070.28	29673070.36	29673070.47	0.0090	0.0080
Venus	76530-08-16 09:36 G	29673295.88	29673295.90	29673295.96	0.0090	0.0088
Earth	76537-10-05 03:36 G	29675902.50	29675902.65	29675902.84	0.0090	0.0067
Moon	76537-10-05 05:46 G	29675902.59	29675902.74	29675902.93	0.0090	0.0068 *
Moon	76538-10-07 14:24 G	29676269.90	29676270.10	29676270.34	0.0090	0.0040
Earth	76538-10-07 15:08 G	29676269.91	29676270.13	29676270.36	0.0090	0.0041 *
Moon	76539-10-10 02:10 G	29676637.34	29676637.59	29676637.86	0.0090	0.0016
Earth	76539-10-10 02:10 G	29676637.35	29676637.59	29676637.86	0.0090	0.0016 *
Earth	76540-10-11 13:27 G	29677004.82	29677005.06	29677005.32	0.0090	0.0011
Moon	76540-10-11 15:22 G	29677004.89	29677005.14	29677005.38	0.0090	0.0012 *
Moon	76541-10-13 21:51 G	29677372.18	29677372.41	29677372.66	0.0090	0.0035
Earth	76541-10-14 00:29 G	29677372.31	29677372.52	29677372.77	0.0090	0.0037 *
Earth	76542-10-16 12:15 G	29677739.82	29677740.01	29677740.19	0.0090	0.0062
Moon	76542-10-16 14:53 G	29677739.96	29677740.12	29677740.31	0.0090	0.0063 *
Moon	76543-10-18 19:12 G	29678107.26	29678107.30	29678107.38	0.0090	0.0087
Earth	76543-10-18 23:03 G	29678107.43	29678107.46	29678107.53	0.0090	0.0088
Mercury	76545-03-06 04:20 G	29678611.65	29678611.68	29678611.74	0.0090	0.0086

Mercury	76545-06-02 06:44 G	29678699.71	29678699.78	29678699.88	0.0090	0.0077
Mercury	76545-08-29 09:22 G	29678787.79	29678787.89	29678788.00	0.0090	0.0067
Mercury	76545-11-25 11:46 G	29678875.87	29678875.99	29678876.12	0.0090	0.0058
Mercury	76546-02-21 14:10 G	29678963.96	29678964.09	29678964.24	0.0090	0.0048
Mercury	76546-05-20 16:48 G	29679052.05	29679052.20	29679052.35	0.0090	0.0039
Mercury	76546-08-16 19:12 G	29679140.15	29679140.30	29679140.45	0.0090	0.0030
Mercury	76546-11-12 21:36 G	29679228.24	29679228.40	29679228.56	0.0090	0.0021
Mercury	76547-02-09 00:00 G	29679316.34	29679316.50	29679316.66	0.0090	0.0011
Mercury	76547-05-08 02:24 G	29679404.44	29679404.60	29679404.76	0.0090	0.0003
Mercury	76547-08-04 04:48 G	29679492.53	29679492.70	29679492.86	0.0090	0.0007
Mercury	76547-10-31 06:58 G	29679580.64	29679580.79	29679580.95	0.0090	0.0016
Mercury	76548-01-27 09:22 G	29679668.74	29679668.89	29679669.05	0.0090	0.0025
Mercury	76548-04-24 11:32 G	29679756.84	29679756.98	29679757.14	0.0090	0.0034
Mercury	76548-07-21 13:56 G	29679844.94	29679845.08	29679845.22	0.0090	0.0043
Mercury	76548-10-17 16:05 G	29679933.05	29679933.17	29679933.31	0.0090	0.0052
Mercury	76549-01-13 18:15 G	29680021.16	29680021.26	29680021.39	0.0090	0.0061
Mercury	76549-04-11 20:24 G	29680109.27	29680109.35	29680109.47	0.0090	0.0070
Mercury	76549-07-08 22:48 G	29680197.38	29680197.45	29680197.54	0.0090	0.0078
Mercury	76549-10-05 00:58 G	29680285.52	29680285.54	29680285.59	0.0090	0.0087
Mars	76570-06-07 21:22 G	29687836.17	29687836.39	29687836.67	0.0089	0.0061
Venus	76597-12-07 12:29 G	29697881.02	29697881.02	29697881.04	0.0088	0.0088
Venus	76598-07-21 01:56 G	29698106.49	29698106.58	29698106.67	0.0088	0.0080
Venus	76599-03-03 14:39 G	29698332.00	29698332.11	29698332.25	0.0088	0.0073
Venus	76599-10-15 03:36 G	29698557.53	29698557.65	29698557.82	0.0088	0.0066
Venus	76600-05-28 17:03 G	29698783.06	29698783.21	29698783.39	0.0088	0.0058
Venus	76601-01-09 06:00 G	29699008.59	29699008.75	29699008.95	0.0088	0.0051
Venus	76601-08-22 19:27 G	29699234.12	29699234.31	29699234.51	0.0088	0.0043
Venus	76602-04-05 08:24 G	29699459.66	29699459.85	29699460.07	0.0088	0.0036
Venus	76602-11-16 21:36 G	29699685.20	29699685.40	29699685.62	0.0088	0.0028
Venus	76603-06-30 10:48 G	29699910.74	29699910.95	29699911.17	0.0088	0.0021

Venus	76604-02-11 00:00 G	29700136.28	29700136.50	29700136.72	0.0088	0.0013
Venus	76604-09-23 13:12 G	29700361.83	29700362.05	29700362.27	0.0088	0.0005
Venus	76605-05-07 02:10 G	29700587.37	29700587.59	29700587.82	0.0088	0.0003
Venus	76605-12-18 15:36 G	29700812.93	29700813.15	29700813.37	0.0088	0.0010
Venus	76606-08-01 04:34 G	29701038.48	29701038.69	29701038.91	0.0088	0.0018
Venus	76607-03-14 17:46 G	29701264.03	29701264.24	29701264.45	0.0088	0.0025
Venus	76607-10-26 06:29 G	29701489.58	29701489.77	29701489.99	0.0088	0.0033
Venus	76608-06-07 19:56 G	29701715.14	29701715.33	29701715.53	0.0088	0.0040
Venus	76609-01-19 08:53 G	29701940.70	29701940.87	29701941.07	0.0088	0.0048
Venus	76609-09-01 22:05 G	29702166.26	29702166.42	29702166.60	0.0088	0.0055
Venus	76610-04-15 10:48 G	29702391.82	29702391.95	29702392.13	0.0088	0.0063
Venus	76610-11-27 00:15 G	29702617.39	29702617.51	29702617.65	0.0088	0.0070
Venus	76611-07-10 12:58 G	29702842.96	29702843.04	29702843.16	0.0088	0.0078
Venus	76612-02-21 02:10 G	29703068.55	29703068.59	29703068.66	0.0088	0.0085
Earth	76619-04-05 01:56 G	29705668.52	29705668.58	29705668.69	0.0088	0.0083
Moon	76619-04-05 03:22 G	29705668.53	29705668.64	29705668.77	0.0088	0.0078 *
Earth	76620-04-06 14:10 G	29706035.91	29706036.09	29706036.31	0.0088	0.0058
Moon	76620-04-06 13:56 G	29706035.92	29706036.08	29706036.27	0.0088	0.0062 *
Moon	76621-04-09 01:27 G	29706403.31	29706403.56	29706403.83	0.0088	0.0029
Earth	76621-04-09 02:24 G	29706403.37	29706403.60	29706403.86	0.0088	0.0034 *
Earth	76622-04-11 14:39 G	29706770.86	29706771.11	29706771.38	0.0088	0.0008
Moon	76622-04-11 17:03 G	29706770.97	29706771.21	29706771.47	0.0088	0.0013 *
Moon	76623-04-13 23:46 G	29707138.25	29707138.49	29707138.77	0.0088	0.0021
Earth	76623-04-14 02:53 G	29707138.37	29707138.62	29707138.88	0.0088	0.0017 *
Earth	76624-04-15 14:39 G	29707505.90	29707506.11	29707506.36	0.0088	0.0042
Moon	76624-04-15 18:29 G	29707506.04	29707506.27	29707506.52	0.0088	0.0037 *
Moon	76625-04-17 22:48 G	29707873.33	29707873.45	29707873.63	0.0088	0.0071
Earth	76625-04-18 02:39 G	29707873.45	29707873.61	29707873.80	0.0088	0.0066 *
Moon	76626-04-20 17:46 G	29708241.23	29708241.24	29708241.30	0.0088	0.0087
Mercury	76627-08-22 09:22 G	29708729.85	29708729.89	29708729.96	0.0088	0.0081

Mercury	76627-11-18 11:32 G	29708817.90	29708817.98	29708818.06	0.0088	0.0073
Mercury	76628-02-14 13:27 G	29708905.96	29708906.06	29708906.16	0.0088	0.0065
Mercury	76628-05-12 14:53 G	29708994.02	29708994.12	29708994.25	0.0088	0.0058
Mercury	76628-08-08 16:48 G	29709082.09	29709082.20	29709082.34	0.0088	0.0050
Mercury	76628-11-04 18:44 G	29709170.16	29709170.28	29709170.43	0.0088	0.0042
Mercury	76629-01-31 20:39 G	29709258.23	29709258.36	29709258.51	0.0088	0.0034
Mercury	76629-04-29 22:34 G	29709346.30	29709346.44	29709346.59	0.0088	0.0026
Mercury	76629-07-27 00:29 G	29709434.38	29709434.52	29709434.68	0.0088	0.0018
Mercury	76629-10-23 02:39 G	29709522.45	29709522.61	29709522.76	0.0088	0.0010
Mercury	76630-01-19 04:34 G	29709610.53	29709610.69	29709610.84	0.0088	0.0002
Mercury	76630-04-17 06:29 G	29709698.61	29709698.77	29709698.92	0.0088	0.0007
Mercury	76630-07-14 08:24 G	29709786.70	29709786.85	29709787.00	0.0088	0.0015
Mercury	76630-10-10 10:20 G	29709874.78	29709874.93	29709875.08	0.0088	0.0023
Mercury	76631-01-06 12:15 G	29709962.87	29709963.01	29709963.16	0.0088	0.0031
Mercury	76631-04-04 14:10 G	29710050.96	29710051.09	29710051.23	0.0088	0.0039
Mercury	76631-07-01 16:05 G	29710139.05	29710139.17	29710139.31	0.0088	0.0047
Mercury	76631-09-27 18:00 G	29710227.14	29710227.25	29710227.38	0.0088	0.0056
Mercury	76631-12-24 20:10 G	29710315.24	29710315.34	29710315.45	0.0088	0.0064
Mercury	76632-03-21 22:20 G	29710403.34	29710403.43	29710403.52	0.0088	0.0072
Mercury	76632-06-18 00:00 G	29710491.45	29710491.50	29710491.57	0.0088	0.0081
Mars	76652-04-08 02:39 G	29717725.41	29717725.61	29717725.86	0.0088	0.0057
Mars	76654-03-02 17:46 G	29718419.13	29718419.24	29718419.39	0.0088	0.0079
Venus	76681-04-18 23:32 G	29728328.43	29728328.48	29728328.56	0.0089	0.0085
Venus	76681-11-30 12:44 G	29728553.92	29728554.03	29728554.14	0.0089	0.0077
Venus	76682-07-14 01:12 G	29728779.43	29728779.55	29728779.71	0.0089	0.0070
Venus	76683-02-24 14:10 G	29729004.95	29729005.09	29729005.26	0.0089	0.0062
Venus	76683-10-08 03:22 G	29729230.47	29729230.64	29729230.81	0.0089	0.0054
Venus	76684-05-20 16:05 G	29729456.00	29729456.17	29729456.37	0.0089	0.0046
Jupiter	76684-11-06 07:41 G	29729625.34	29729625.82	29729626.34	0.0089	0.0036
Venus	76685-01-01 05:03 G	29729681.53	29729681.71	29729681.92	0.0089	0.0039

Venus	76685-08-14 18:00 G	29729907.06	29729907.25	29729907.47	0.0089	0.0031
Venus	76686-03-28 06:58 G	29730132.59	29730132.79	29730133.01	0.0089	0.0023
Venus	76686-11-08 20:10 G	29730358.12	29730358.34	29730358.55	0.0089	0.0015
Venus	76687-06-22 09:08 G	29730583.66	29730583.88	29730584.10	0.0089	0.0007
Venus	76688-02-02 22:05 G	29730809.20	29730809.42	29730809.64	0.0090	0.0001
Venus	76688-09-15 10:48 G	29731034.74	29731034.95	29731035.17	0.0090	0.0009
Venus	76689-04-28 23:32 G	29731260.28	29731260.48	29731260.70	0.0090	0.0017
Venus	76689-12-10 12:29 G	29731485.82	29731486.02	29731486.24	0.0090	0.0025
Venus	76690-07-24 01:27 G	29731711.37	29731711.56	29731711.77	0.0090	0.0032
Venus	76691-03-06 14:10 G	29731936.91	29731937.09	29731937.30	0.0090	0.0041
Venus	76691-10-18 03:08 G	29732162.46	29732162.63	29732162.83	0.0090	0.0048
Venus	76692-05-30 16:05 G	29732388.01	29732388.17	29732388.35	0.0090	0.0056
Venus	76693-01-11 04:48 G	29732613.57	29732613.70	29732613.88	0.0090	0.0064
Venus	76693-08-24 17:46 G	29732839.13	29732839.24	29732839.39	0.0090	0.0072
Venus	76694-04-07 06:58 G	29733064.70	29733064.79	29733064.90	0.0090	0.0079
Venus	76694-11-18 19:41 G	29733290.29	29733290.32	29733290.40	0.0090	0.0087
Moon	76701-10-06 12:00 G	29735802.88	29735803.00	29735803.17	0.0090	0.0073
Earth	76701-10-06 12:29 G	29735802.91	29735803.02	29735803.17	0.0090	0.0077 *
Moon	76702-10-08 22:34 G	29736170.24	29736170.44	29736170.66	0.0090	0.0055
Earth	76702-10-08 23:32 G	29736170.30	29736170.48	29736170.72	0.0090	0.0052 *
Earth	76703-10-11 11:03 G	29736537.73	29736537.96	29736538.21	0.0090	0.0026
Moon	76703-10-11 12:58 G	29736537.81	29736538.04	29736538.29	0.0090	0.0022 *
Moon	76704-10-12 19:27 G	29736905.05	29736905.31	29736905.57	0.0090	0.0005
Earth	76704-10-12 22:34 G	29736905.19	29736905.44	29736905.69	0.0090	0.0000 *
Earth	76705-10-15 09:22 G	29737272.66	29737272.89	29737273.15	0.0090	0.0026
Moon	76705-10-15 13:12 G	29737272.81	29737273.05	29737273.29	0.0090	0.0030 *
Moon	76706-10-17 17:03 G	29737640.01	29737640.21	29737640.45	0.0090	0.0047
Earth	76706-10-17 20:24 G	29737640.16	29737640.35	29737640.58	0.0090	0.0052 *
Earth	76707-10-20 07:41 G	29738007.71	29738007.82	29738007.97	0.0090	0.0077
Moon	76707-10-20 10:48 G	29738007.87	29738007.95	29738008.08	0.0090	0.0082 *

Mercury	76709-12-03 03:08 G	29738782.57	29738782.63	29738782.71	0.0090	0.0081
Mercury	76710-03-01 05:32 G	29738870.65	29738870.73	29738870.84	0.0090	0.0072
Mercury	76710-05-28 08:24 G	29738958.73	29738958.85	29738958.97	0.0090	0.0062
Mercury	76710-08-24 10:34 G	29739046.82	29739046.94	29739047.08	0.0090	0.0053
Mercury	76710-11-20 12:58 G	29739134.91	29739135.04	29739135.20	0.0090	0.0044
Mercury	76711-02-16 15:22 G	29739223.00	29739223.14	29739223.30	0.0090	0.0035
Mercury	76711-05-15 18:00 G	29739311.10	29739311.25	29739311.41	0.0090	0.0025
Mercury	76711-08-11 20:24 G	29739399.19	29739399.35	29739399.51	0.0090	0.0016
Mercury	76711-11-07 22:48 G	29739487.29	29739487.45	29739487.62	0.0090	0.0007
Mercury	76712-02-04 01:12 G	29739575.39	29739575.55	29739575.72	0.0090	0.0003
Mercury	76712-05-02 03:36 G	29739663.49	29739663.65	29739663.81	0.0090	0.0012
Mercury	76712-07-29 06:00 G	29739751.59	29739751.75	29739751.91	0.0090	0.0021
Mercury	76712-10-25 08:10 G	29739839.70	29739839.84	29739840.00	0.0090	0.0030
Mercury	76713-01-21 10:34 G	29739927.80	29739927.94	29739928.09	0.0090	0.0039
Mercury	76713-04-19 12:44 G	29740015.91	29740016.03	29740016.18	0.0090	0.0048
Mercury	76713-07-16 15:08 G	29740104.01	29740104.13	29740104.26	0.0090	0.0057
Mercury	76713-10-12 17:17 G	29740192.12	29740192.22	29740192.34	0.0090	0.0066
Mercury	76714-01-08 19:27 G	29740280.24	29740280.31	29740280.41	0.0090	0.0075
Mercury	76714-04-06 21:51 G	29740368.36	29740368.41	29740368.48	0.0090	0.0083
Mars	76734-01-21 03:22 G	29747597.31	29747597.64	29747597.99	0.0089	0.0010
Venus	76762-10-24 11:17 G	29758100.91	29758100.97	29758101.06	0.0088	0.0082
Venus	76763-06-07 00:15 G	29758326.42	29758326.51	29758326.65	0.0088	0.0075
Venus	76764-01-18 13:56 G	29758551.94	29758552.08	29758552.23	0.0088	0.0067
Venus	76764-08-31 02:39 G	29758777.47	29758777.61	29758777.79	0.0088	0.0060
Venus	76765-04-13 16:05 G	29759003.00	29759003.17	29759003.36	0.0088	0.0052
Venus	76765-11-25 05:03 G	29759228.54	29759228.71	29759228.92	0.0088	0.0045
Venus	76766-07-08 18:29 G	29759454.07	29759454.27	29759454.48	0.0088	0.0037
Venus	76767-02-19 07:27 G	29759679.61	29759679.81	29759680.03	0.0088	0.0030
Venus	76767-10-02 20:39 G	29759905.15	29759905.36	29759905.58	0.0088	0.0022
Venus	76768-05-15 09:51 G	29760130.69	29760130.91	29760131.13	0.0088	0.0014



Venus	76768-12-26 23:03 G	29760356.24	29760356.46	29760356.68	0.0088	0.0007
Venus	76769-08-09 12:15 G	29760581.78	29760582.01	29760582.23	0.0088	0.0002
Venus	76770-03-23 00:58 G	29760807.33	29760807.54	29760807.77	0.0088	0.0009
Venus	76770-11-03 14:10 G	29761032.88	29761033.09	29761033.31	0.0088	0.0016
Venus	76771-06-17 03:08 G	29761258.43	29761258.63	29761258.86	0.0088	0.0024
Venus	76772-01-28 16:20 G	29761483.98	29761484.18	29761484.40	0.0088	0.0032
Venus	76772-09-10 05:32 G	29761709.54	29761709.73	29761709.94	0.0088	0.0039
Venus	76773-04-23 18:29 G	29761935.10	29761935.27	29761935.47	0.0088	0.0047
Venus	76773-12-05 07:56 G	29762160.66	29762160.83	29762161.01	0.0088	0.0054
Venus	76774-07-18 20:39 G	29762386.22	29762386.36	29762386.54	0.0088	0.0062
Venus	76775-03-01 10:05 G	29762611.79	29762611.92	29762612.06	0.0088	0.0069
Venus	76775-10-12 22:48 G	29762837.36	29762837.45	29762837.58	0.0088	0.0077
Venus	76776-05-25 12:00 G	29763062.95	29763063.00	29763063.08	0.0088	0.0084
Moon	76784-04-06 20:24 G	29765936.19	29765936.35	29765936.54	0.0088	0.0067
Earth	76784-04-06 21:51 G	29765936.27	29765936.41	29765936.60	0.0088	0.0068 *
Earth	76785-04-09 10:05 G	29766303.71	29766303.92	29766304.16	0.0088	0.0043
Moon	76785-04-09 12:29 G	29766303.82	29766304.02	29766304.26	0.0088	0.0045 *
Moon	76786-04-11 18:58 G	29766671.04	29766671.29	29766671.56	0.0088	0.0018
Earth	76786-04-11 22:48 G	29766671.19	29766671.45	29766671.71	0.0088	0.0018 *
Earth	76787-04-14 10:48 G	29767038.69	29767038.95	29767039.22	0.0088	0.0007
Moon	76787-04-14 14:24 G	29767038.84	29767039.10	29767039.36	0.0088	0.0005 *
Moon	76788-04-15 19:12 G	29767406.07	29767406.30	29767406.55	0.0088	0.0033
Earth	76788-04-15 22:34 G	29767406.22	29767406.44	29767406.71	0.0088	0.0032 *
Earth	76789-04-18 10:48 G	29767773.76	29767773.95	29767774.16	0.0088	0.0056
Moon	76789-04-18 13:27 G	29767773.87	29767774.06	29767774.29	0.0088	0.0055 *
Moon	76790-04-20 20:39 G	29768141.31	29768141.36	29768141.47	0.0088	0.0083
Earth	76790-04-20 22:48 G	29768141.37	29768141.45	29768141.57	0.0088	0.0081 *
Mercury	76792-02-21 06:58 G	29768812.76	29768812.79	29768812.84	0.0088	0.0084
Mercury	76792-05-19 08:53 G	29768900.80	29768900.87	29768900.95	0.0088	0.0076
Mercury	76792-08-15 10:48 G	29768988.86	29768988.95	29768989.05	0.0088	0.0068

Mercury	76792-11-11 12:29 G	29769076.92	29769077.02	29769077.14	0.0088	0.0061
Mercury	76793-02-07 14:24 G	29769164.99	29769165.10	29769165.23	0.0088	0.0053
Mercury	76793-05-06 16:20 G	29769253.05	29769253.18	29769253.31	0.0088	0.0045
Mercury	76793-08-02 18:15 G	29769341.12	29769341.26	29769341.40	0.0088	0.0037
Mercury	76793-10-29 20:10 G	29769429.20	29769429.34	29769429.48	0.0088	0.0029
Mercury	76794-01-25 22:05 G	29769517.27	29769517.42	29769517.57	0.0088	0.0021
Mercury	76794-04-24 00:00 G	29769605.35	29769605.50	29769605.65	0.0088	0.0013
Mercury	76794-07-21 01:41 G	29769693.42	29769693.57	29769693.73	0.0088	0.0006
Mercury	76794-10-17 03:51 G	29769781.50	29769781.66	29769781.81	0.0088	0.0004
Mercury	76795-01-13 05:32 G	29769869.58	29769869.73	29769869.89	0.0088	0.0012
Mercury	76795-04-11 07:27 G	29769957.67	29769957.81	29769957.97	0.0088	0.0020
Mercury	76795-07-08 09:22 G	29770045.75	29770045.89	29770046.04	0.0088	0.0028
Mercury	76795-10-04 11:17 G	29770133.84	29770133.97	29770134.12	0.0088	0.0036
Mercury	76795-12-31 13:12 G	29770221.93	29770222.05	29770222.20	0.0088	0.0044
Mercury	76796-03-28 15:22 G	29770310.02	29770310.14	29770310.27	0.0088	0.0052
Mercury	76796-06-24 17:32 G	29770398.12	29770398.23	29770398.34	0.0088	0.0060
Mercury	76796-09-20 19:12 G	29770486.22	29770486.30	29770486.41	0.0088	0.0069
Mercury	76796-12-17 21:08 G	29770574.32	29770574.38	29770574.47	0.0088	0.0077
Mercury	76797-03-15 23:17 G	29770662.44	29770662.47	29770662.51	0.0088	0.0085
Mars	76817-10-17 07:56 G	29778182.57	29778182.83	29778183.13	0.0088	0.0024
Venus	76845-07-22 10:20 G	29788322.90	29788322.93	29788323.00	0.0089	0.0087
Venus	76846-03-04 23:17 G	29788548.38	29788548.47	29788548.58	0.0089	0.0079
Venus	76846-10-16 11:46 G	29788773.89	29788773.99	29788774.15	0.0089	0.0072
Venus	76847-05-30 00:58 G	29788999.41	29788999.54	29788999.71	0.0089	0.0064
Venus	76848-01-10 14:10 G	29789224.93	29789225.09	29789225.27	0.0089	0.0056
Venus	76848-08-23 03:08 G	29789450.45	29789450.63	29789450.81	0.0089	0.0048
Venus	76849-04-05 15:36 G	29789675.97	29789676.15	29789676.36	0.0089	0.0041
Venus	76849-11-17 04:34 G	29789901.50	29789901.69	29789901.91	0.0089	0.0033
Venus	76850-06-30 17:46 G	29790127.04	29790127.24	29790127.46	0.0089	0.0025
Venus	76851-02-11 06:44 G	29790352.57	29790352.78	29790353.00	0.0089	0.0017

Venus	76851-09-24 19:41 G	29790578.11	29790578.32	29790578.54	0.0089	0.0009
Venus	76852-05-07 08:53 G	29790803.65	29790803.87	29790804.08	0.0089	0.0002
Venus	76852-12-18 21:36 G	29791029.19	29791029.40	29791029.62	0.0089	0.0008
Venus	76853-08-01 10:34 G	29791254.73	29791254.94	29791255.16	0.0090	0.0015
Venus	76854-03-14 23:17 G	29791480.27	29791480.47	29791480.69	0.0090	0.0024
Venus	76854-10-26 12:29 G	29791705.82	29791706.02	29791706.23	0.0090	0.0031
Venus	76855-06-09 01:27 G	29791931.37	29791931.56	29791931.76	0.0090	0.0039
Venus	76856-01-20 14:24 G	29792156.92	29792157.10	29792157.29	0.0090	0.0047
Venus	76856-09-02 03:08 G	29792382.47	29792382.63	29792382.81	0.0090	0.0055
Venus	76857-04-15 15:51 G	29792608.02	29792608.16	29792608.33	0.0090	0.0063
Venus	76857-11-27 04:34 G	29792833.58	29792833.69	29792833.85	0.0090	0.0071
Venus	76858-07-10 18:00 G	29793059.16	29793059.25	29793059.37	0.0090	0.0078
Venus	76859-02-21 06:44 G	29793284.74	29793284.78	29793284.86	0.0090	0.0086
Moon	76865-10-05 21:22 G	29795703.31	29795703.39	29795703.48	0.0090	0.0084
Earth	76865-10-05 22:20 G	29795703.39	29795703.43	29795703.51	0.0090	0.0087 *
Earth	76866-10-08 09:22 G	29796070.73	29796070.89	29796071.10	0.0090	0.0062
Moon	76866-10-08 12:00 G	29796070.86	29796071.00	29796071.20	0.0090	0.0065 *
Moon	76867-10-10 18:00 G	29796438.01	29796438.25	29796438.49	0.0090	0.0033
Earth	76867-10-10 20:53 G	29796438.15	29796438.37	29796438.62	0.0090	0.0036 *
Earth	76868-10-12 08:10 G	29796805.60	29796805.84	29796806.10	0.0090	0.0011
Moon	76868-10-12 12:00 G	29796805.75	29796806.00	29796806.25	0.0090	0.0012 *
Moon	76869-10-14 16:05 G	29797172.93	29797173.17	29797173.42	0.0090	0.0018
Earth	76869-10-14 19:12 G	29797173.06	29797173.30	29797173.57	0.0090	0.0016 *
Earth	76870-10-17 06:15 G	29797540.55	29797540.76	29797541.00	0.0090	0.0041
Moon	76870-10-17 09:22 G	29797540.66	29797540.89	29797541.13	0.0090	0.0039 *
Moon	76871-10-19 15:22 G	29797907.99	29797908.14	29797908.31	0.0090	0.0068
Earth	76871-10-19 17:46 G	29797908.07	29797908.24	29797908.41	0.0090	0.0066 *
Moon	76872-10-21 05:17 G	29798275.70	29798275.72	29798275.75	0.0090	0.0089
Mercury	76874-06-02 23:46 G	29798865.45	29798865.49	29798865.54	0.0090	0.0085
Mercury	76874-08-30 02:10 G	29798953.51	29798953.59	29798953.69	0.0090	0.0076

Mercury	76874-11-26 04:34 G	29799041.59	29799041.69	29799041.81	0.0090	0.0067
Mercury	76875-02-22 07:12 G	29799129.68	29799129.80	29799129.93	0.0090	0.0057
Mercury	76875-05-21 09:36 G	29799217.77	29799217.90	29799218.05	0.0090	0.0048
Mercury	76875-08-17 12:00 G	29799305.86	29799306.00	29799306.16	0.0090	0.0039
Mercury	76875-11-13 14:39 G	29799393.96	29799394.11	29799394.27	0.0090	0.0029
Mercury	76876-02-09 17:03 G	29799482.05	29799482.21	29799482.37	0.0090	0.0020
Mercury	76876-05-07 19:27 G	29799570.15	29799570.31	29799570.47	0.0090	0.0011
Mercury	76876-08-03 21:51 G	29799658.25	29799658.41	29799658.58	0.0090	0.0002
Mercury	76876-10-31 00:15 G	29799746.35	29799746.51	29799746.67	0.0090	0.0008
Mercury	76877-01-27 02:39 G	29799834.45	29799834.61	29799834.77	0.0090	0.0017
Mercury	76877-04-25 05:03 G	29799922.55	29799922.71	29799922.86	0.0090	0.0026
Mercury	76877-07-22 07:12 G	29800010.66	29800010.80	29800010.95	0.0090	0.0035
Mercury	76877-10-18 09:36 G	29800098.76	29800098.90	29800099.04	0.0090	0.0044
Mercury	76878-01-14 11:46 G	29800186.87	29800186.99	29800187.13	0.0090	0.0053
Mercury	76878-04-12 14:10 G	29800274.98	29800275.09	29800275.21	0.0090	0.0062
Mercury	76878-07-09 16:20 G	29800363.09	29800363.18	29800363.29	0.0090	0.0071
Mercury	76878-10-05 18:29 G	29800451.22	29800451.27	29800451.36	0.0090	0.0080
Mercury	76879-01-01 21:08 G	29800539.36	29800539.38	29800539.41	0.0090	0.0088
Mars	76897-09-03 12:15 G	29807358.87	29807359.01	29807359.19	0.0089	0.0079
Mars	76899-07-31 20:53 G	29808055.33	29808055.37	29808055.46	0.0089	0.0087
Venus	76927-01-26 21:22 G	29818095.34	29818095.39	29818095.47	0.0088	0.0084
Venus	76927-09-09 10:20 G	29818320.85	29818320.93	29818321.06	0.0088	0.0077
Venus	76928-04-21 23:46 G	29818546.37	29818546.49	29818546.64	0.0088	0.0069
Venus	76928-12-03 13:27 G	29818771.90	29818772.06	29818772.22	0.0088	0.0061
Venus	76929-07-17 02:10 G	29818997.43	29818997.59	29818997.79	0.0088	0.0054
Venus	76930-02-27 15:36 G	29819222.97	29819223.15	29819223.35	0.0088	0.0046
Venus	76930-10-11 04:34 G	29819448.50	29819448.69	29819448.90	0.0088	0.0039
Venus	76931-05-24 17:46 G	29819674.04	29819674.24	29819674.46	0.0088	0.0031
Venus	76932-01-05 07:12 G	29819899.59	29819899.80	29819900.02	0.0088	0.0023
Venus	76932-08-17 20:10 G	29820125.13	29820125.34	29820125.57	0.0088	0.0016

Venus	76933-03-31 09:22 G	29820350.67	29820350.89	29820351.12	0.0088	0.0008
Venus	76933-11-11 22:34 G	29820576.22	29820576.44	29820576.66	0.0088	0.0000
Venus	76934-06-25 11:32 G	29820801.76	29820801.98	29820802.21	0.0088	0.0008
Venus	76935-02-06 00:44 G	29821027.31	29821027.53	29821027.75	0.0088	0.0015
Venus	76935-09-19 13:41 G	29821252.86	29821253.07	29821253.29	0.0088	0.0023
Venus	76936-05-02 02:39 G	29821478.41	29821478.61	29821478.83	0.0088	0.0031
Venus	76936-12-13 15:51 G	29821703.97	29821704.16	29821704.37	0.0088	0.0038
Venus	76937-07-27 04:48 G	29821929.53	29821929.70	29821929.91	0.0088	0.0046
Venus	76938-03-09 18:15 G	29822155.08	29822155.26	29822155.44	0.0088	0.0053
Venus	76938-10-21 06:58 G	29822380.65	29822380.79	29822380.96	0.0088	0.0061
Venus	76939-06-03 20:24 G	29822606.21	29822606.35	29822606.49	0.0088	0.0068
Venus	76940-01-15 09:22 G	29822831.79	29822831.89	29822832.01	0.0088	0.0076
Venus	76940-08-27 22:34 G	29823057.38	29823057.44	29823057.52	0.0088	0.0083
Earth	76948-04-07 06:15 G	29825836.65	29825836.76	29825836.89	0.0088	0.0077
Moon	76948-04-07 08:53 G	29825836.75	29825836.87	29825837.04	0.0088	0.0073 *
Moon	76949-04-09 14:24 G	29826203.93	29826204.10	29826204.33	0.0088	0.0058
Earth	76949-04-09 18:00 G	29826204.07	29826204.25	29826204.49	0.0088	0.0053 *
Earth	76950-04-12 06:29 G	29826571.53	29826571.77	29826572.03	0.0088	0.0028
Moon	76950-04-12 10:20 G	29826571.68	29826571.93	29826572.19	0.0088	0.0023 *
Moon	76951-04-14 15:36 G	29826938.90	29826939.15	29826939.41	0.0088	0.0008
Earth	76951-04-14 18:44 G	29826939.02	29826939.28	29826939.54	0.0088	0.0003 *
Earth	76952-04-16 06:44 G	29827306.53	29827306.78	29827307.04	0.0088	0.0022
Moon	76952-04-16 09:36 G	29827306.65	29827306.90	29827307.16	0.0088	0.0026 *
Moon	76953-04-18 17:32 G	29827674.02	29827674.23	29827674.47	0.0088	0.0042
Earth	76953-04-18 18:44 G	29827674.08	29827674.28	29827674.52	0.0088	0.0047 *
Earth	76954-04-21 06:58 G	29828041.66	29828041.79	29828041.96	0.0088	0.0071
Moon	76954-04-21 06:58 G	29828041.67	29828041.79	29828041.96	0.0088	0.0075 *
Mercury	76956-08-22 04:20 G	29828895.68	29828895.68	29828895.72	0.0088	0.0087
Mercury	76956-11-18 06:15 G	29828983.71	29828983.76	29828983.84	0.0088	0.0079
Mercury	76957-02-14 08:10 G	29829071.76	29829071.84	29829071.94	0.0088	0.0071

Mercury	76957-05-13 10:20 G	29829159.82	29829159.93	29829160.03	0.0088	0.0063
Mercury	76957-08-09 11:46 G	29829247.89	29829247.99	29829248.12	0.0088	0.0056
Mercury	76957-11-05 13:41 G	29829335.95	29829336.07	29829336.21	0.0088	0.0048
Mercury	76958-02-01 15:36 G	29829424.02	29829424.15	29829424.29	0.0088	0.0040
Mercury	76958-04-30 17:32 G	29829512.09	29829512.23	29829512.38	0.0088	0.0032
Mercury	76958-07-27 19:27 G	29829600.17	29829600.31	29829600.46	0.0088	0.0024
Mercury	76958-10-23 21:22 G	29829688.24	29829688.39	29829688.54	0.0088	0.0016
Mercury	76959-01-19 23:17 G	29829776.32	29829776.47	29829776.62	0.0088	0.0008
Mercury	76959-04-18 01:12 G	29829864.40	29829864.55	29829864.70	0.0088	0.0000
Mercury	76959-07-15 03:08 G	29829952.48	29829952.63	29829952.78	0.0088	0.0008
Mercury	76959-10-11 04:48 G	29830040.56	29830040.70	29830040.86	0.0088	0.0017
Mercury	76960-01-07 06:44 G	29830128.64	29830128.78	29830128.94	0.0088	0.0025
Mercury	76960-04-04 08:39 G	29830216.73	29830216.86	29830217.01	0.0088	0.0033
Mercury	76960-07-01 10:34 G	29830304.82	29830304.94	29830305.09	0.0088	0.0041
Mercury	76960-09-27 12:44 G	29830392.91	29830393.03	29830393.16	0.0088	0.0049
Mercury	76960-12-24 14:39 G	29830481.00	29830481.11	29830481.23	0.0088	0.0057
Mercury	76961-03-22 16:20 G	29830569.10	29830569.18	29830569.30	0.0088	0.0066
Mercury	76961-06-18 18:29 G	29830657.20	29830657.27	29830657.36	0.0088	0.0074
Mercury	76961-09-14 20:24 G	29830745.31	29830745.35	29830745.42	0.0088	0.0082
Mars	76981-06-03 00:58 G	29837946.29	29837946.54	29837946.83	0.0088	0.0032

# 78TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 78th millennium CE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
--------	-----------------	---	-------	-----	-----	--------	-------	---

TIME

Venus	77009-10-25 21:36 G	29848317.39	29848317.40	29848317.46	0.0089	0.0088
Venus	77010-06-08 10:48 G	29848542.87	29848542.95	29848543.06	0.0089	0.0080
Venus	77011-01-19 23:46 G	29848768.37	29848768.49	29848768.62	0.0089	0.0073
Venus	77011-09-02 12:44 G	29848993.88	29848994.03	29848994.18	0.0089	0.0065
Venus	77012-04-15 01:12 G	29849219.40	29849219.55	29849219.73	0.0089	0.0057
Venus	77012-11-26 13:56 G	29849444.92	29849445.08	29849445.28	0.0089	0.0050
Venus	77013-07-10 03:08 G	29849670.45	29849670.63	29849670.83	0.0089	0.0042
Venus	77014-02-20 16:05 G	29849895.97	29849896.17	29849896.38	0.0089	0.0034
Venus	77014-10-04 05:03 G	29850121.50	29850121.71	29850121.92	0.0089	0.0026
Venus	77015-05-17 18:00 G	29850347.04	29850347.25	29850347.46	0.0089	0.0018
Venus	77015-12-29 06:58 G	29850572.57	29850572.79	29850573.00	0.0089	0.0010
Venus	77016-08-10 19:56 G	29850798.11	29850798.33	29850798.54	0.0089	0.0002
Venus	77017-03-24 08:39 G	29851023.65	29851023.86	29851024.08	0.0089	0.0006
Venus	77017-11-04 21:22 G	29851249.19	29851249.39	29851249.62	0.0089	0.0015
Venus	77018-06-18 10:48 G	29851474.74	29851474.95	29851475.16	0.0090	0.0022
Venus	77019-01-29 23:46 G	29851700.28	29851700.49	29851700.69	0.0090	0.0030
Venus	77019-09-12 12:29 G	29851925.83	29851926.02	29851926.22	0.0090	0.0038
Venus	77020-04-25 01:12 G	29852151.38	29852151.55	29852151.75	0.0090	0.0046
Venus	77020-12-06 14:10 G	29852376.93	29852377.09	29852377.27	0.0090	0.0054
Venus	77021-07-20 03:08 G	29852602.49	29852602.63	29852602.80	0.0090	0.0062
Venus	77022-03-02 15:51 G	29852828.05	29852828.16	29852828.32	0.0090	0.0070
Venus	77022-10-14 05:17 G	29853053.61	29853053.72	29853053.83	0.0090	0.0077
Venus	77023-05-27 18:00 G	29853279.19	29853279.25	29853279.33	0.0090	0.0085
Moon	77030-10-09 15:51 G	29855971.02	29855971.16	29855971.35	0.0090	0.0068
Earth	77030-10-09 19:56 G	29855971.18	29855971.33	29855971.49	0.0090	0.0071 *
Earth	77031-10-12 06:58 G	29856338.59	29856338.79	29856339.03	0.0090	0.0046
Moon	77031-10-12 10:48 G	29856338.74	29856338.95	29856339.16	0.0090	0.0049 *
Moon	77032-10-13 15:22 G	29856705.89	29856706.14	29856706.39	0.0090	0.0016
Earth	77032-10-13 18:44 G	29856706.03	29856706.28	29856706.53	0.0090	0.0020 *

Earth	77033-10-16 05:46 G	29857073.49	29857073.74	29857074.00	0.0090	0.0006
Moon	77033-10-16 08:24 G	29857073.59	29857073.85	29857074.11	0.0090	0.0001 *
Moon	77034-10-18 15:36 G	29857440.93	29857441.15	29857441.39	0.0090	0.0035
Earth	77034-10-18 16:48 G	29857440.97	29857441.20	29857441.45	0.0090	0.0031 *
Earth	77035-10-21 03:36 G	29857808.48	29857808.65	29857808.87	0.0090	0.0057
Moon	77035-10-21 04:34 G	29857808.49	29857808.69	29857808.91	0.0090	0.0052 *
Earth	77036-10-22 14:53 G	29858176.04	29858176.12	29858176.25	0.0090	0.0082
Moon	77036-10-22 16:05 G	29858176.12	29858176.17	29858176.26	0.0090	0.0086 *
Mercury	77038-12-03 20:10 G	29858948.34	29858948.34	29858948.38	0.0090	0.0089
Mercury	77039-03-01 23:03 G	29859036.39	29859036.46	29859036.54	0.0090	0.0079
Mercury	77039-05-29 01:27 G	29859124.46	29859124.56	29859124.67	0.0090	0.0070
Mercury	77039-08-25 03:51 G	29859212.55	29859212.66	29859212.79	0.0090	0.0061
Mercury	77039-11-21 06:29 G	29859300.64	29859300.77	29859300.91	0.0090	0.0051
Mercury	77040-02-17 08:53 G	29859388.73	29859388.87	29859389.02	0.0090	0.0042
Mercury	77040-05-15 11:17 G	29859476.82	29859476.97	29859477.13	0.0090	0.0033
Mercury	77040-08-11 13:56 G	29859564.92	29859565.08	29859565.24	0.0090	0.0023
Mercury	77040-11-07 16:20 G	29859653.02	29859653.18	29859653.34	0.0090	0.0014
Mercury	77041-02-03 18:44 G	29859741.12	29859741.28	29859741.44	0.0090	0.0005
Mercury	77041-05-02 21:08 G	29859829.22	29859829.38	29859829.54	0.0090	0.0004
Mercury	77041-07-29 23:32 G	29859917.32	29859917.48	29859917.64	0.0090	0.0014
Mercury	77041-10-26 01:56 G	29860005.42	29860005.58	29860005.74	0.0090	0.0023
Mercury	77042-01-22 04:05 G	29860093.53	29860093.67	29860093.83	0.0090	0.0032
Mercury	77042-04-20 06:29 G	29860181.63	29860181.77	29860181.92	0.0090	0.0041
Mercury	77042-07-17 08:39 G	29860269.74	29860269.86	29860270.01	0.0090	0.0050
Mercury	77042-10-13 11:03 G	29860357.85	29860357.96	29860358.09	0.0090	0.0059
Mercury	77043-01-09 13:12 G	29860445.96	29860446.05	29860446.17	0.0090	0.0068
Mercury	77043-04-07 15:36 G	29860534.08	29860534.15	29860534.24	0.0090	0.0077
Mercury	77043-07-04 17:46 G	29860622.21	29860622.24	29860622.30	0.0090	0.0086
Mars	77063-03-16 06:58 G	29867816.47	29867816.79	29867817.14	0.0089	0.0019
Venus	77091-05-01 07:12 G	29878089.78	29878089.80	29878089.88	0.0088	0.0087



Venus	77091-12-12 20:53 G	29878315.29	29878315.37	29878315.48	0.0088	0.0078
Venus	77092-07-25 09:51 G	29878540.80	29878540.91	29878541.07	0.0088	0.0071
Venus	77093-03-07 23:17 G	29878766.33	29878766.47	29878766.64	0.0088	0.0063
Jupiter	77093-07-10 07:12 G	29878890.73	29878890.80	29878891.01	0.0088	0.0085
Venus	77093-10-19 12:44 G	29878991.86	29878992.03	29878992.21	0.0088	0.0055
Venus	77094-06-02 01:41 G	29879217.40	29879217.57	29879217.77	0.0088	0.0048
Venus	77095-01-13 15:08 G	29879442.94	29879443.13	29879443.34	0.0088	0.0040
Venus	77095-08-27 04:34 G	29879668.48	29879668.69	29879668.90	0.0088	0.0032
Venus	77096-04-08 17:17 G	29879894.02	29879894.22	29879894.45	0.0088	0.0025
Venus	77096-11-20 06:44 G	29880119.57	29880119.78	29880120.00	0.0088	0.0017
Venus	77097-07-03 19:56 G	29880345.11	29880345.33	29880345.56	0.0088	0.0009
Venus	77098-02-14 09:08 G	29880570.66	29880570.88	29880571.10	0.0088	0.0001
Venus	77098-09-27 22:05 G	29880796.20	29880796.42	29880796.65	0.0088	0.0007
Venus	77099-05-11 11:17 G	29881021.75	29881021.97	29881022.19	0.0088	0.0014
Venus	77099-12-23 00:15 G	29881247.31	29881247.51	29881247.74	0.0088	0.0022
Venus	77100-08-05 13:12 G	29881472.86	29881473.05	29881473.28	0.0088	0.0030
Venus	77101-03-19 02:24 G	29881698.41	29881698.60	29881698.81	0.0088	0.0037
Venus	77101-10-30 15:22 G	29881923.96	29881924.14	29881924.34	0.0088	0.0045
Venus	77102-06-13 04:48 G	29882149.52	29882149.70	29882149.88	0.0088	0.0052
Venus	77103-01-24 17:46 G	29882375.09	29882375.24	29882375.41	0.0088	0.0060
Venus	77103-09-07 06:29 G	29882600.65	29882600.77	29882600.94	0.0088	0.0068
Venus	77104-04-19 19:56 G	29882826.23	29882826.33	29882826.45	0.0088	0.0075
Venus	77104-12-01 08:39 G	29883051.81	29883051.86	29883051.96	0.0088	0.0083
Moon	77112-04-08 11:32 G	29885736.94	29885736.98	29885737.08	0.0088	0.0085
Earth	77112-04-08 15:22 G	29885737.11	29885737.14	29885737.21	0.0088	0.0086
Earth	77113-04-11 03:08 G	29886104.47	29886104.63	29886104.85	0.0088	0.0062
Moon	77113-04-11 07:12 G	29886104.62	29886104.80	29886105.00	0.0088	0.0061 *
Moon	77114-04-13 12:29 G	29886471.80	29886472.02	29886472.27	0.0088	0.0037
Earth	77114-04-13 15:36 G	29886471.92	29886472.15	29886472.40	0.0088	0.0037 *
Earth	77115-04-16 03:36 G	29886839.40	29886839.65	29886839.92	0.0088	0.0013

Moon	77115-04-16 05:32 G	29886839.47	29886839.73	29886840.00	0.0088	0.0013	*
Moon	77116-04-17 14:39 G	29887206.87	29887207.11	29887207.37	0.0088	0.0012	
Earth	77116-04-17 15:51 G	29887206.90	29887207.16	29887207.42	0.0088	0.0012	*
Moon	77117-04-20 03:22 G	29887574.40	29887574.64	29887574.90	0.0088	0.0037	
Earth	77117-04-20 03:51 G	29887574.43	29887574.66	29887574.91	0.0088	0.0037	*
Earth	77118-04-22 16:05 G	29887941.99	29887942.17	29887942.36	0.0088	0.0061	
Moon	77118-04-22 17:32 G	29887942.07	29887942.23	29887942.43	0.0088	0.0062	*
Moon	77119-04-25 01:41 G	29888309.53	29888309.57	29888309.63	0.0088	0.0086	
Earth	77119-04-25 03:36 G	29888309.63	29888309.65	29888309.74	0.0088	0.0086	*
Mercury	77121-05-21 03:51 G	29889066.62	29889066.66	29889066.73	0.0088	0.0082	
Mercury	77121-08-17 05:46 G	29889154.67	29889154.74	29889154.83	0.0088	0.0074	
Mercury	77121-11-13 07:41 G	29889242.73	29889242.82	29889242.93	0.0088	0.0066	
Mercury	77122-02-09 09:36 G	29889330.79	29889330.90	29889331.01	0.0088	0.0058	
Mercury	77122-05-08 11:32 G	29889418.86	29889418.98	29889419.10	0.0088	0.0050	
Mercury	77122-08-04 13:12 G	29889506.92	29889507.05	29889507.19	0.0088	0.0042	
Mercury	77122-10-31 15:08 G	29889594.99	29889595.13	29889595.27	0.0088	0.0034	
Mercury	77123-01-27 17:03 G	29889683.07	29889683.21	29889683.36	0.0088	0.0026	
Mercury	77123-04-25 18:44 G	29889771.14	29889771.28	29889771.44	0.0088	0.0019	
Mercury	77123-07-22 20:53 G	29889859.22	29889859.37	29889859.52	0.0088	0.0011	
Mercury	77123-10-18 22:48 G	29889947.29	29889947.45	29889947.60	0.0088	0.0003	
Mercury	77124-01-15 00:44 G	29890035.37	29890035.53	29890035.68	0.0088	0.0006	
Mercury	77124-04-12 02:24 G	29890123.45	29890123.60	29890123.76	0.0088	0.0014	
Mercury	77124-07-09 04:20 G	29890211.54	29890211.68	29890211.83	0.0088	0.0022	
Mercury	77124-10-05 06:15 G	29890299.62	29890299.76	29890299.91	0.0088	0.0030	
Mercury	77125-01-01 08:10 G	29890387.71	29890387.84	29890387.99	0.0088	0.0038	
Mercury	77125-03-30 10:05 G	29890475.80	29890475.92	29890476.06	0.0088	0.0046	
Mercury	77125-06-26 12:15 G	29890563.89	29890564.01	29890564.13	0.0088	0.0054	
Mercury	77125-09-22 13:56 G	29890651.98	29890652.08	29890652.20	0.0088	0.0063	
Mercury	77125-12-19 15:51 G	29890740.08	29890740.16	29890740.26	0.0088	0.0071	
Mercury	77126-03-17 18:00 G	29890828.19	29890828.25	29890828.32	0.0088	0.0079	

Mercury	77126-06-13 19:56 G	29890916.32	29890916.33	29890916.35	0.0088	0.0087
Mars	77145-01-18 17:46 G	29897710.16	29897710.24	29897710.32	0.0088	0.0085
Mars	77146-12-13 08:10 G	29898403.63	29898403.84	29898404.11	0.0088	0.0051
Venus	77174-09-10 22:05 G	29908537.36	29908537.42	29908537.53	0.0089	0.0083
Venus	77175-04-24 11:03 G	29908762.86	29908762.96	29908763.10	0.0089	0.0075
Venus	77175-12-06 00:00 G	29908988.37	29908988.50	29908988.66	0.0089	0.0067
Venus	77176-07-18 12:58 G	29909213.89	29909214.04	29909214.22	0.0089	0.0059
Venus	77177-03-01 01:56 G	29909439.41	29909439.58	29909439.76	0.0089	0.0051
Venus	77177-10-12 14:24 G	29909664.93	29909665.10	29909665.31	0.0089	0.0044
Venus	77178-05-26 03:22 G	29909890.46	29909890.64	29909890.86	0.0089	0.0036
Venus	77179-01-06 16:20 G	29910115.99	29910116.18	29910116.40	0.0089	0.0028
Venus	77179-08-20 05:17 G	29910341.52	29910341.72	29910341.94	0.0089	0.0020
Venus	77180-04-01 18:15 G	29910567.05	29910567.26	29910567.48	0.0089	0.0011
Venus	77180-11-13 07:12 G	29910792.59	29910792.80	29910793.02	0.0089	0.0003
Venus	77181-06-26 20:10 G	29911018.13	29911018.34	29911018.56	0.0089	0.0006
Venus	77182-02-07 09:22 G	29911243.67	29911243.89	29911244.10	0.0089	0.0013
Venus	77182-09-20 22:05 G	29911469.21	29911469.42	29911469.64	0.0089	0.0021
Venus	77183-05-04 11:03 G	29911694.76	29911694.96	29911695.17	0.0090	0.0029
Venus	77183-12-16 00:00 G	29911920.30	29911920.50	29911920.70	0.0090	0.0037
Venus	77184-07-28 12:58 G	29912145.86	29912146.04	29912146.23	0.0090	0.0045
Venus	77185-03-11 01:56 G	29912371.41	29912371.58	29912371.76	0.0090	0.0053
Venus	77185-10-22 14:39 G	29912596.97	29912597.11	29912597.28	0.0090	0.0061
Venus	77186-06-05 03:36 G	29912822.53	29912822.65	29912822.80	0.0090	0.0069
Venus	77187-01-16 16:34 G	29913048.09	29913048.19	29913048.32	0.0090	0.0077
Venus	77187-08-30 05:17 G	29913273.67	29913273.72	29913273.82	0.0090	0.0085
Earth	77194-10-10 05:46 G	29915871.65	29915871.74	29915871.87	0.0090	0.0081
Moon	77194-10-10 09:36 G	29915871.79	29915871.90	29915872.04	0.0090	0.0077 *
Moon	77195-10-12 14:39 G	29916238.94	29916239.11	29916239.31	0.0090	0.0059
Earth	77195-10-12 17:46 G	29916239.04	29916239.24	29916239.44	0.0090	0.0055 *
Earth	77196-10-14 04:48 G	29916606.47	29916606.70	29916606.95	0.0090	0.0030

Moon	77196-10-14 07:27 G	29916606.56	29916606.81	29916607.06	0.0090	0.0027 *
Moon	77197-10-16 15:08 G	29916973.89	29916974.13	29916974.38	0.0090	0.0008
Earth	77197-10-16 16:20 G	29916973.93	29916974.18	29916974.43	0.0090	0.0004 *
Moon	77198-10-19 02:39 G	29917341.37	29917341.61	29917341.88	0.0090	0.0025
Earth	77198-10-19 03:36 G	29917341.40	29917341.65	29917341.90	0.0090	0.0021 *
Earth	77199-10-21 14:24 G	29917708.90	29917709.10	29917709.34	0.0090	0.0047
Moon	77199-10-21 15:51 G	29917708.95	29917709.16	29917709.38	0.0090	0.0044 *
Moon	77200-10-22 22:48 G	29918076.33	29918076.45	29918076.61	0.0090	0.0075
Earth	77200-10-23 01:27 G	29918076.43	29918076.56	29918076.73	0.0090	0.0072 *
Mercury	77203-08-31 19:27 G	29919119.26	29919119.31	29919119.39	0.0090	0.0083
Mercury	77203-11-27 22:20 G	29919207.34	29919207.43	29919207.53	0.0090	0.0073
Mercury	77204-02-24 00:29 G	29919295.42	29919295.52	29919295.65	0.0090	0.0064
Mercury	77204-05-22 02:53 G	29919383.51	29919383.62	29919383.77	0.0090	0.0055
Mercury	77204-08-18 05:46 G	29919471.60	29919471.74	29919471.88	0.0090	0.0045
Mercury	77204-11-14 08:10 G	29919559.69	29919559.84	29919560.00	0.0090	0.0036
Mercury	77205-02-10 10:34 G	29919647.79	29919647.94	29919648.10	0.0090	0.0027
Mercury	77205-05-09 13:12 G	29919735.89	29919736.05	29919736.21	0.0090	0.0017
Mercury	77205-08-05 15:36 G	29919823.99	29919824.15	29919824.31	0.0090	0.0008
Mercury	77205-11-01 18:00 G	29919912.09	29919912.25	29919912.41	0.0090	0.0001
Mercury	77206-01-28 20:24 G	29920000.19	29920000.35	29920000.51	0.0090	0.0010
Mercury	77206-04-26 22:48 G	29920088.29	29920088.45	29920088.61	0.0090	0.0020
Mercury	77206-07-24 00:58 G	29920176.39	29920176.54	29920176.70	0.0090	0.0029
Mercury	77206-10-20 03:22 G	29920264.50	29920264.64	29920264.79	0.0090	0.0038
Mercury	77207-01-16 05:46 G	29920352.61	29920352.74	29920352.88	0.0090	0.0047
Mercury	77207-04-14 07:56 G	29920440.72	29920440.83	29920440.97	0.0090	0.0056
Mercury	77207-07-11 10:20 G	29920528.83	29920528.93	29920529.05	0.0090	0.0065
Mercury	77207-10-07 12:29 G	29920616.94	29920617.02	29920617.13	0.0090	0.0074
Mercury	77208-01-03 14:39 G	29920705.07	29920705.11	29920705.19	0.0090	0.0083
Mars	77226-10-28 19:27 G	29927578.03	29927578.31	29927578.61	0.0089	0.0046
Venus	77255-08-03 18:44 G	29938084.27	29938084.28	29938084.31	0.0088	0.0087

Venus	77256-03-16 07:27 G	29938309.75	29938309.81	29938309.93	0.0088	0.0080
Venus	77256-10-27 20:53 G	29938535.26	29938535.37	29938535.51	0.0088	0.0072
Venus	77257-06-10 09:51 G	29938760.79	29938760.91	29938761.09	0.0088	0.0065
Venus	77258-01-21 23:17 G	29938986.32	29938986.47	29938986.66	0.0088	0.0057
Venus	77258-09-04 12:44 G	29939211.85	29939212.03	29939212.22	0.0088	0.0049
Venus	77259-04-18 02:10 G	29939437.39	29939437.59	29939437.78	0.0088	0.0041
Jupiter	77259-09-12 17:32 G	29939584.70	29939585.23	29939585.77	0.0088	0.0009
Venus	77259-11-29 15:08 G	29939662.94	29939663.13	29939663.35	0.0088	0.0034
Venus	77260-07-12 04:20 G	29939888.48	29939888.68	29939888.90	0.0088	0.0026
Venus	77261-02-22 17:32 G	29940114.02	29940114.23	29940114.46	0.0088	0.0018
Venus	77261-10-06 06:58 G	29940339.56	29940339.79	29940340.01	0.0088	0.0010
Venus	77262-05-19 19:56 G	29940565.11	29940565.33	29940565.56	0.0088	0.0003
Venus	77262-12-31 09:22 G	29940790.67	29940790.89	29940791.11	0.0088	0.0005
Venus	77263-08-13 22:20 G	29941016.21	29941016.43	29941016.65	0.0088	0.0013
Venus	77264-03-26 11:17 G	29941241.76	29941241.97	29941242.19	0.0088	0.0021
Venus	77264-11-07 00:15 G	29941467.31	29941467.51	29941467.73	0.0088	0.0029
Venus	77265-06-20 13:41 G	29941692.86	29941693.07	29941693.27	0.0088	0.0036
Venus	77266-02-01 02:39 G	29941918.42	29941918.61	29941918.81	0.0088	0.0044
Venus	77266-09-14 15:22 G	29942143.98	29942144.14	29942144.34	0.0088	0.0052
Venus	77267-04-28 04:48 G	29942369.54	29942369.70	29942369.87	0.0088	0.0059
Venus	77267-12-09 17:32 G	29942595.11	29942595.23	29942595.39	0.0088	0.0067
Venus	77268-07-22 06:29 G	29942820.68	29942820.77	29942820.91	0.0088	0.0075
Venus	77269-03-04 19:41 G	29943046.26	29943046.32	29943046.41	0.0088	0.0082
Moon	77277-04-10 10:20 G	29946004.78	29946004.93	29946005.11	0.0088	0.0066
Earth	77277-04-10 12:58 G	29946004.89	29946005.04	29946005.20	0.0088	0.0070 *
Earth	77278-04-13 00:44 G	29946372.32	29946372.53	29946372.77	0.0088	0.0046
Moon	77278-04-13 02:10 G	29946372.40	29946372.59	29946372.84	0.0088	0.0051 *
Earth	77279-04-15 12:44 G	29946739.79	29946740.03	29946740.30	0.0088	0.0022
Moon	77279-04-15 13:12 G	29946739.80	29946740.05	29946740.30	0.0088	0.0017 *
Moon	77280-04-17 00:15 G	29947107.24	29947107.51	29947107.79	0.0088	0.0002

Earth	77280-04-17 01:12 G	29947107.29	29947107.55	29947107.81	0.0088	0.0003	*
Earth	77281-04-19 12:58 G	29947474.80	29947475.04	29947475.30	0.0088	0.0028	
Moon	77281-04-19 14:53 G	29947474.90	29947475.12	29947475.37	0.0088	0.0033	*
Moon	77282-04-21 21:22 G	29947842.19	29947842.39	29947842.64	0.0088	0.0048	
Earth	77282-04-22 00:58 G	29947842.34	29947842.54	29947842.76	0.0088	0.0052	*
Earth	77283-04-24 12:44 G	29948209.93	29948210.03	29948210.19	0.0088	0.0077	
Moon	77283-04-24 16:20 G	29948210.10	29948210.18	29948210.29	0.0088	0.0081	*
Mercury	77285-11-19 01:41 G	29949149.54	29949149.57	29949149.62	0.0088	0.0084	
Mercury	77286-02-15 03:36 G	29949237.58	29949237.65	29949237.73	0.0088	0.0076	
Mercury	77286-05-14 05:32 G	29949325.64	29949325.73	29949325.83	0.0088	0.0068	
Mercury	77286-08-10 06:58 G	29949413.70	29949413.79	29949413.92	0.0088	0.0061	
Mercury	77286-11-06 08:53 G	29949501.76	29949501.87	29949502.00	0.0088	0.0053	
Mercury	77287-02-02 10:48 G	29949589.83	29949589.95	29949590.09	0.0088	0.0045	
Mercury	77287-05-01 12:44 G	29949677.90	29949678.03	29949678.17	0.0088	0.0037	
Mercury	77287-07-28 14:39 G	29949765.97	29949766.11	29949766.26	0.0088	0.0029	
Mercury	77287-10-24 16:34 G	29949854.05	29949854.19	29949854.34	0.0088	0.0021	
Mercury	77288-01-20 18:29 G	29949942.12	29949942.27	29949942.42	0.0088	0.0013	
Mercury	77288-04-17 20:24 G	29950030.20	29950030.35	29950030.50	0.0088	0.0005	
Mercury	77288-07-14 22:20 G	29950118.28	29950118.43	29950118.58	0.0088	0.0003	
Mercury	77288-10-11 00:15 G	29950206.36	29950206.51	29950206.66	0.0088	0.0011	
Mercury	77289-01-07 02:10 G	29950294.44	29950294.59	29950294.74	0.0088	0.0019	
Mercury	77289-04-05 03:51 G	29950382.52	29950382.66	29950382.81	0.0088	0.0028	
Mercury	77289-07-02 05:46 G	29950470.61	29950470.74	29950470.89	0.0088	0.0036	
Mercury	77289-09-28 07:41 G	29950558.70	29950558.82	29950558.96	0.0088	0.0044	
Mercury	77289-12-25 09:36 G	29950646.79	29950646.90	29950647.03	0.0088	0.0052	
Mercury	77290-03-23 11:32 G	29950734.88	29950734.98	29950735.10	0.0088	0.0060	
Mercury	77290-06-19 13:41 G	29950822.98	29950823.07	29950823.17	0.0088	0.0068	
Mercury	77290-09-15 15:22 G	29950911.08	29950911.14	29950911.23	0.0088	0.0077	
Mercury	77290-12-12 17:17 G	29950999.20	29950999.22	29950999.27	0.0088	0.0085	
Mars	77310-07-30 00:29 G	29958167.23	29958167.52	29958167.81	0.0088	0.0004	

Venus	77338-12-14 10:05 G	29968531.86	29968531.92	29968532.01	0.0089	0.0084
Venus	77339-07-27 23:03 G	29968757.35	29968757.46	29968757.58	0.0089	0.0076
Venus	77340-03-09 11:32 G	29968982.86	29968982.98	29968983.14	0.0089	0.0068
Venus	77340-10-21 00:29 G	29969208.38	29969208.52	29969208.70	0.0089	0.0060
Venus	77341-06-03 13:27 G	29969433.90	29969434.06	29969434.25	0.0089	0.0053
Venus	77342-01-15 02:24 G	29969659.42	29969659.60	29969659.80	0.0089	0.0044
Venus	77342-08-28 15:08 G	29969884.95	29969885.13	29969885.34	0.0089	0.0037
Venus	77343-04-11 04:05 G	29970110.47	29970110.67	29970110.88	0.0089	0.0028
Venus	77343-11-22 16:48 G	29970336.00	29970336.20	29970336.42	0.0089	0.0021
Venus	77344-07-05 06:00 G	29970561.54	29970561.75	29970561.97	0.0089	0.0012
Venus	77345-02-15 18:58 G	29970787.07	29970787.29	29970787.51	0.0089	0.0004
Venus	77345-09-29 07:41 G	29971012.61	29971012.82	29971013.04	0.0089	0.0004
Venus	77346-05-12 20:39 G	29971238.14	29971238.36	29971238.58	0.0089	0.0012
Venus	77346-12-24 09:36 G	29971463.69	29971463.90	29971464.11	0.0089	0.0020
Venus	77347-08-06 22:34 G	29971689.23	29971689.44	29971689.65	0.0090	0.0028
Venus	77348-03-19 11:17 G	29971914.78	29971914.97	29971915.18	0.0090	0.0036
Venus	77348-10-31 00:15 G	29972140.33	29972140.51	29972140.71	0.0090	0.0044
Venus	77349-06-13 13:12 G	29972365.89	29972366.05	29972366.24	0.0090	0.0052
Venus	77350-01-25 02:10 G	29972591.44	29972591.59	29972591.76	0.0090	0.0060
Venus	77350-09-07 15:08 G	29972817.00	29972817.13	29972817.28	0.0090	0.0068
Venus	77351-04-21 04:05 G	29973042.57	29973042.67	29973042.80	0.0090	0.0076
Venus	77351-12-02 16:48 G	29973268.15	29973268.20	29973268.30	0.0090	0.0084
Earth	77358-10-10 17:17 G	29975772.22	29975772.22	29975772.24	0.0090	0.0090
Earth	77359-10-13 04:05 G	29976139.52	29976139.67	29976139.87	0.0090	0.0065
Moon	77359-10-13 05:46 G	29976139.57	29976139.74	29976139.95	0.0090	0.0062 *
Moon	77360-10-14 15:22 G	29976506.92	29976507.14	29976507.36	0.0090	0.0042
Earth	77360-10-14 15:51 G	29976506.94	29976507.16	29976507.39	0.0090	0.0039 *
Moon	77361-10-17 02:39 G	29976874.35	29976874.61	29976874.87	0.0090	0.0011
Earth	77361-10-17 03:08 G	29976874.39	29976874.63	29976874.89	0.0090	0.0014 *
Earth	77362-10-19 14:39 G	29977241.86	29977242.11	29977242.36	0.0090	0.0012

Moon	77362-10-19 16:48 G	29977241.96	29977242.20	29977242.45	0.0090	0.0009	*
Moon	77363-10-21 23:03 G	29977609.24	29977609.46	29977609.70	0.0090	0.0040	
Earth	77363-10-22 01:41 G	29977609.35	29977609.57	29977609.81	0.0090	0.0037	*
Earth	77364-10-23 13:12 G	29977976.87	29977977.05	29977977.23	0.0090	0.0062	
Moon	77364-10-23 16:05 G	29977977.00	29977977.17	29977977.38	0.0090	0.0059	*
Earth	77365-10-25 23:46 G	29978344.46	29978344.49	29978344.57	0.0090	0.0088	
Mercury	77368-03-01 16:20 G	29979202.15	29979202.18	29979202.25	0.0090	0.0086	
Mercury	77368-05-28 18:58 G	29979290.22	29979290.29	29979290.39	0.0090	0.0076	
Mercury	77368-08-24 21:22 G	29979378.30	29979378.39	29979378.52	0.0090	0.0067	
Mercury	77368-11-21 00:15 G	29979466.38	29979466.51	29979466.64	0.0090	0.0057	
Mercury	77369-02-17 02:39 G	29979554.48	29979554.61	29979554.76	0.0090	0.0048	
Mercury	77369-05-16 05:03 G	29979642.57	29979642.71	29979642.87	0.0090	0.0039	
Mercury	77369-08-12 07:41 G	29979730.67	29979730.82	29979730.98	0.0090	0.0029	
Mercury	77369-11-08 10:05 G	29979818.76	29979818.92	29979819.08	0.0090	0.0020	
Mercury	77370-02-04 12:29 G	29979906.86	29979907.02	29979907.19	0.0090	0.0011	
Mercury	77370-05-03 15:08 G	29979994.96	29979995.13	29979995.29	0.0090	0.0003	
Mercury	77370-07-30 17:32 G	29980083.06	29980083.23	29980083.39	0.0090	0.0008	
Mercury	77370-10-26 19:41 G	29980171.16	29980171.32	29980171.49	0.0090	0.0017	
Mercury	77371-01-22 22:05 G	29980259.27	29980259.42	29980259.58	0.0090	0.0026	
Mercury	77371-04-21 00:29 G	29980347.37	29980347.52	29980347.67	0.0090	0.0035	
Mercury	77371-07-18 02:53 G	29980435.48	29980435.62	29980435.76	0.0090	0.0044	
Mercury	77371-10-14 05:17 G	29980523.59	29980523.72	29980523.85	0.0090	0.0053	
Mercury	77372-01-10 07:27 G	29980611.70	29980611.81	29980611.93	0.0090	0.0062	
Mercury	77372-04-07 09:51 G	29980699.82	29980699.91	29980700.01	0.0090	0.0071	
Mercury	77372-07-04 12:00 G	29980787.94	29980788.00	29980788.08	0.0090	0.0080	
Mercury	77372-09-30 14:10 G	29980876.09	29980876.09	29980876.13	0.0090	0.0089	
Mars	77392-05-08 15:36 G	29988035.89	29988036.15	29988036.44	0.0089	0.0053	
Venus	77420-06-19 18:44 G	29998304.21	29998304.28	29998304.38	0.0088	0.0082	
Venus	77421-01-31 07:41 G	29998529.72	29998529.82	29998529.96	0.0088	0.0074	
Venus	77421-09-13 20:53 G	29998755.25	29998755.37	29998755.54	0.0088	0.0066	



Venus	77422-04-27 10:20 G	29998980.77	29998980.93	29998981.11	0.0088	0.0058
Venus	77422-12-08 23:46 G	29999206.31	29999206.49	29999206.68	0.0088	0.0050
Venus	77423-07-22 12:44 G	29999431.85	29999432.03	29999432.24	0.0088	0.0043
Venus	77424-03-04 01:56 G	29999657.39	29999657.58	29999657.80	0.0088	0.0035
Venus	77424-10-15 15:08 G	29999882.93	29999883.13	29999883.35	0.0088	0.0027
Venus	77425-05-29 04:34 G	30000108.47	30000108.69	30000108.91	0.0088	0.0019
Jupiter	77425-11-14 23:17 G	30000278.20	30000278.47	30000278.85	0.0088	0.0070
Venus	77426-01-09 17:46 G	30000334.03	30000334.24	30000334.47	0.0088	0.0012
Venus	77426-08-23 07:12 G	30000559.57	30000559.80	30000560.02	0.0088	0.0004
Venus	77427-04-05 20:10 G	30000785.12	30000785.34	30000785.57	0.0088	0.0005
Venus	77427-11-17 09:22 G	30001010.67	30001010.89	30001011.11	0.0088	0.0012
Venus	77428-06-29 22:34 G	30001236.23	30001236.44	30001236.66	0.0088	0.0020
Venus	77429-02-10 11:32 G	30001461.78	30001461.98	30001462.20	0.0088	0.0028
Venus	77429-09-24 00:29 G	30001687.33	30001687.52	30001687.74	0.0088	0.0036
Venus	77430-05-07 13:56 G	30001912.89	30001913.08	30001913.28	0.0088	0.0043
Venus	77430-12-19 02:53 G	30002138.45	30002138.62	30002138.81	0.0088	0.0051
Venus	77431-08-01 15:51 G	30002364.01	30002364.16	30002364.34	0.0088	0.0059
Venus	77432-03-14 04:48 G	30002589.58	30002589.70	30002589.87	0.0088	0.0067
Venus	77432-10-25 18:00 G	30002815.15	30002815.25	30002815.38	0.0088	0.0074
Venus	77433-06-08 06:44 G	30003040.73	30003040.78	30003040.89	0.0088	0.0082
Earth	77441-04-11 22:20 G	30005905.34	30005905.43	30005905.57	0.0088	0.0079
Moon	77441-04-11 23:32 G	30005905.37	30005905.48	30005905.62	0.0088	0.0077 *
Earth	77442-04-14 10:20 G	30006272.75	30006272.93	30006273.16	0.0088	0.0055
Moon	77442-04-14 10:34 G	30006272.76	30006272.94	30006273.15	0.0088	0.0056 *
Moon	77443-04-16 20:53 G	30006640.12	30006640.37	30006640.63	0.0088	0.0028
Earth	77443-04-16 22:48 G	30006640.21	30006640.45	30006640.70	0.0088	0.0030 *
Earth	77444-04-18 11:03 G	30007007.70	30007007.96	30007008.22	0.0088	0.0006
Moon	77444-04-18 13:27 G	30007007.81	30007008.06	30007008.31	0.0088	0.0007 *
Moon	77445-04-20 19:27 G	30007375.06	30007375.31	30007375.58	0.0088	0.0020
Earth	77445-04-20 22:48 G	30007375.20	30007375.45	30007375.71	0.0088	0.0019 *

Earth	77446-04-23 10:34 G	30007742.73	30007742.94	30007743.18	0.0088	0.0043
Moon	77446-04-23 14:10 G	30007742.88	30007743.09	30007743.34	0.0088	0.0042 *
Moon	77447-04-25 19:12 G	30008110.16	30008110.30	30008110.48	0.0088	0.0068
Earth	77447-04-25 22:48 G	30008110.29	30008110.45	30008110.63	0.0088	0.0067 *
Mercury	77450-05-21 23:32 G	30009232.46	30009232.48	30009232.52	0.0088	0.0086
Mercury	77450-08-18 01:27 G	30009320.50	30009320.56	30009320.63	0.0088	0.0078
Mercury	77450-11-14 02:53 G	30009408.55	30009408.62	30009408.72	0.0088	0.0071
Mercury	77451-02-10 04:48 G	30009496.61	30009496.70	30009496.82	0.0088	0.0063
Mercury	77451-05-09 06:44 G	30009584.67	30009584.78	30009584.91	0.0088	0.0055
Mercury	77451-08-05 08:39 G	30009672.74	30009672.86	30009672.99	0.0088	0.0047
Mercury	77451-11-01 10:34 G	30009760.81	30009760.94	30009761.08	0.0088	0.0039
Mercury	77452-01-28 12:15 G	30009848.88	30009849.01	30009849.16	0.0088	0.0032
Mercury	77452-04-25 14:10 G	30009936.95	30009937.09	30009937.24	0.0088	0.0024
Mercury	77452-07-22 16:05 G	30010025.02	30010025.17	30010025.32	0.0088	0.0016
Mercury	77452-10-18 18:00 G	30010113.10	30010113.25	30010113.40	0.0088	0.0008
Mercury	77453-01-14 19:56 G	30010201.18	30010201.33	30010201.48	0.0088	0.0001
Mercury	77453-04-12 21:51 G	30010289.26	30010289.41	30010289.56	0.0088	0.0009
Mercury	77453-07-09 23:32 G	30010377.34	30010377.48	30010377.64	0.0088	0.0017
Mercury	77453-10-06 01:27 G	30010465.42	30010465.56	30010465.71	0.0088	0.0025
Mercury	77454-01-02 03:22 G	30010553.51	30010553.64	30010553.79	0.0088	0.0033
Mercury	77454-03-31 05:17 G	30010641.59	30010641.72	30010641.86	0.0088	0.0041
Mercury	77454-06-27 07:12 G	30010729.68	30010729.80	30010729.93	0.0088	0.0049
Mercury	77454-09-23 09:22 G	30010817.77	30010817.89	30010818.00	0.0088	0.0057
Mercury	77454-12-20 11:03 G	30010905.87	30010905.96	30010906.07	0.0088	0.0066
Mercury	77455-03-18 12:58 G	30010993.97	30010994.04	30010994.13	0.0088	0.0074
Mercury	77455-06-14 14:53 G	30011082.08	30011082.12	30011082.19	0.0088	0.0082
Mars	77474-03-15 18:00 G	30017931.03	30017931.25	30017931.48	0.0088	0.0057
Mars	77476-02-07 07:56 G	30018624.73	30018624.83	30018625.00	0.0088	0.0079
Venus	77503-03-19 21:36 G	30028526.36	30028526.40	30028526.49	0.0089	0.0086
Venus	77503-10-31 10:34 G	30028751.85	30028751.94	30028752.07	0.0089	0.0078

Venus	77504-06-12 23:46 G	30028977.37	30028977.49	30028977.64	0.0089	0.0070
Venus	77505-01-24 12:44 G	30029202.88	30029203.03	30029203.20	0.0089	0.0062
Venus	77505-09-07 01:27 G	30029428.40	30029428.56	30029428.75	0.0089	0.0054
Venus	77506-04-20 14:24 G	30029653.92	30029654.10	30029654.29	0.0089	0.0046
Venus	77506-12-02 03:22 G	30029879.45	30029879.64	30029879.84	0.0089	0.0038
Venus	77507-07-15 16:20 G	30030104.98	30030105.18	30030105.39	0.0089	0.0030
Venus	77508-02-26 05:03 G	30030330.51	30030330.71	30030330.93	0.0089	0.0022
Venus	77508-10-08 18:00 G	30030556.04	30030556.25	30030556.47	0.0089	0.0014
Venus	77509-05-22 06:58 G	30030781.57	30030781.79	30030782.00	0.0089	0.0006
Venus	77510-01-02 19:41 G	30031007.11	30031007.32	30031007.54	0.0089	0.0003
Venus	77510-08-16 08:39 G	30031232.64	30031232.86	30031233.08	0.0090	0.0011
Venus	77511-03-29 21:22 G	30031458.18	30031458.39	30031458.61	0.0090	0.0019
Venus	77511-11-10 10:20 G	30031683.72	30031683.93	30031684.14	0.0090	0.0027
Venus	77512-06-22 23:17 G	30031909.27	30031909.47	30031909.67	0.0090	0.0035
Venus	77513-02-03 12:15 G	30032134.82	30032135.01	30032135.20	0.0090	0.0043
Venus	77513-09-17 01:12 G	30032360.37	30032360.55	30032360.73	0.0090	0.0051
Venus	77514-04-30 13:56 G	30032585.92	30032586.08	30032586.25	0.0090	0.0059
Venus	77514-12-12 02:53 G	30032811.48	30032811.62	30032811.77	0.0090	0.0067
Venus	77515-07-25 15:51 G	30033037.05	30033037.16	30033037.29	0.0090	0.0075
Venus	77516-03-07 04:48 G	30033262.63	30033262.70	30033262.79	0.0090	0.0083
Moon	77523-10-14 15:22 G	30036040.00	30036040.14	30036040.31	0.0090	0.0070
Earth	77523-10-14 15:08 G	30036040.01	30036040.13	30036040.29	0.0090	0.0074 *
Moon	77524-10-16 00:58 G	30036407.35	30036407.54	30036407.78	0.0090	0.0053
Earth	77524-10-16 02:24 G	30036407.41	30036407.60	30036407.83	0.0090	0.0049 *
Earth	77525-10-18 13:41 G	30036774.84	30036775.07	30036775.33	0.0090	0.0024
Moon	77525-10-18 15:51 G	30036774.93	30036775.16	30036775.41	0.0090	0.0020 *
Moon	77526-10-20 22:05 G	30037142.16	30037142.42	30037142.68	0.0090	0.0002
Earth	77526-10-21 01:27 G	30037142.31	30037142.56	30037142.81	0.0090	0.0002 *
Earth	77527-10-23 12:15 G	30037509.79	30037510.01	30037510.27	0.0090	0.0028
Moon	77527-10-23 16:05 G	30037509.93	30037510.17	30037510.40	0.0090	0.0031 *

Moon	77528-10-24 20:10 G	30037877.14	30037877.34	30037877.56	0.0090	0.0049
Earth	77528-10-24 23:46 G	30037877.30	30037877.49	30037877.71	0.0090	0.0053 *
Earth	77529-10-27 10:48 G	30038244.85	30038244.95	30038245.10	0.0090	0.0078
Moon	77529-10-27 13:41 G	30038244.99	30038245.07	30038245.20	0.0090	0.0082 *
Mercury	77532-09-01 13:41 G	30039285.04	30039285.07	30039285.10	0.0090	0.0088
Mercury	77532-11-28 15:51 G	30039373.10	30039373.16	30039373.25	0.0090	0.0079
Mercury	77533-02-24 18:15 G	30039461.18	30039461.26	30039461.38	0.0090	0.0070
Mercury	77533-05-23 21:08 G	30039549.26	30039549.38	30039549.51	0.0090	0.0060
Mercury	77533-08-19 23:32 G	30039637.35	30039637.48	30039637.63	0.0090	0.0051
Mercury	77533-11-16 02:10 G	30039725.45	30039725.59	30039725.74	0.0090	0.0041
Mercury	77534-02-12 04:34 G	30039813.54	30039813.69	30039813.85	0.0090	0.0032
Mercury	77534-05-11 06:58 G	30039901.64	30039901.79	30039901.96	0.0090	0.0023
Mercury	77534-08-07 09:36 G	30039989.74	30039989.90	30039990.06	0.0090	0.0013
Mercury	77534-11-03 12:00 G	30040077.84	30040078.00	30040078.17	0.0090	0.0004
Mercury	77535-01-30 14:24 G	30040165.94	30040166.10	30040166.27	0.0090	0.0005
Mercury	77535-04-28 16:48 G	30040254.04	30040254.20	30040254.36	0.0090	0.0014
Mercury	77535-07-25 19:12 G	30040342.15	30040342.30	30040342.46	0.0090	0.0024
Mercury	77535-10-21 21:36 G	30040430.25	30040430.40	30040430.55	0.0090	0.0033
Mercury	77536-01-17 23:46 G	30040518.36	30040518.49	30040518.65	0.0090	0.0042
Mercury	77536-04-15 02:10 G	30040606.47	30040606.59	30040606.73	0.0090	0.0051
Mercury	77536-07-12 04:34 G	30040694.58	30040694.69	30040694.82	0.0090	0.0060
Mercury	77536-10-08 06:44 G	30040782.69	30040782.78	30040782.90	0.0090	0.0069
Mercury	77537-01-04 09:08 G	30040870.81	30040870.88	30040870.97	0.0090	0.0078
Mercury	77537-04-02 11:46 G	30040958.95	30040958.99	30040959.03	0.0090	0.0086
Mars	77555-12-23 04:20 G	30047797.35	30047797.68	30047798.02	0.0089	0.0013
Venus	77584-09-22 05:46 G	30058298.69	30058298.74	30058298.84	0.0088	0.0083
Venus	77585-05-05 18:58 G	30058524.20	30058524.29	30058524.43	0.0088	0.0075
Venus	77585-12-17 08:24 G	30058749.72	30058749.85	30058750.01	0.0088	0.0068
Venus	77586-07-30 21:22 G	30058975.25	30058975.39	30058975.58	0.0088	0.0060
Venus	77587-03-13 10:34 G	30059200.78	30059200.94	30059201.14	0.0088	0.0052

Venus	77587-10-24 23:46 G	30059426.31	30059426.49	30059426.70	0.0088	0.0044
Venus	77588-06-06 12:58 G	30059651.85	30059652.04	30059652.26	0.0088	0.0036
Venus	77589-01-18 02:24 G	30059877.40	30059877.60	30059877.82	0.0088	0.0028
Venus	77589-08-31 15:22 G	30060102.94	30060103.14	30060103.37	0.0088	0.0021
Venus	77590-04-14 04:34 G	30060328.48	30060328.69	30060328.92	0.0088	0.0013
Venus	77590-11-25 18:00 G	30060554.03	30060554.25	30060554.48	0.0088	0.0005
Venus	77591-07-09 07:12 G	30060779.58	30060779.80	30060780.03	0.0088	0.0003
Venus	77592-02-19 20:24 G	30061005.13	30061005.35	30061005.57	0.0088	0.0011
Venus	77592-10-02 09:36 G	30061230.68	30061230.90	30061231.12	0.0088	0.0019
Venus	77593-05-15 22:34 G	30061456.24	30061456.44	30061456.66	0.0088	0.0027
Venus	77593-12-27 11:46 G	30061681.80	30061681.99	30061682.21	0.0088	0.0035
Venus	77594-08-10 00:44 G	30061907.35	30061907.53	30061907.74	0.0088	0.0043
Venus	77595-03-23 14:10 G	30062132.91	30062133.09	30062133.28	0.0088	0.0050
Venus	77595-11-04 03:08 G	30062358.47	30062358.63	30062358.80	0.0088	0.0058
Venus	77596-06-16 16:05 G	30062584.04	30062584.17	30062584.33	0.0088	0.0066
Venus	77597-01-28 05:03 G	30062809.62	30062809.71	30062809.86	0.0088	0.0074
Venus	77597-09-10 18:29 G	30063035.20	30063035.27	30063035.36	0.0088	0.0081
Earth	77605-04-12 08:10 G	30065805.83	30065805.84	30065805.89	0.0088	0.0087
Moon	77606-04-14 18:29 G	30066173.09	30066173.27	30066173.49	0.0088	0.0059
Earth	77606-04-14 20:24 G	30066173.18	30066173.35	30066173.55	0.0088	0.0063 *
Earth	77607-04-17 08:24 G	30066540.64	30066540.85	30066541.11	0.0088	0.0039
Moon	77607-04-17 11:46 G	30066540.78	30066540.99	30066541.22	0.0088	0.0043 *
Moon	77608-04-18 17:17 G	30066907.97	30066908.22	30066908.49	0.0088	0.0011
Earth	77608-04-18 20:53 G	30066908.12	30066908.37	30066908.63	0.0088	0.0014 *
Earth	77609-04-21 09:08 G	30067275.62	30067275.88	30067276.14	0.0088	0.0010
Moon	77609-04-21 12:29 G	30067275.77	30067276.02	30067276.29	0.0088	0.0006 *
Moon	77610-04-23 17:32 G	30067643.01	30067643.23	30067643.47	0.0088	0.0039
Earth	77610-04-23 21:08 G	30067643.14	30067643.38	30067643.62	0.0088	0.0034 *
Earth	77611-04-26 08:39 G	30068010.69	30068010.86	30068011.07	0.0088	0.0059
Moon	77611-04-26 11:32 G	30068010.78	30068010.98	30068011.20	0.0088	0.0054 *

Moon	77612-04-27 19:12 G	30068378.28	30068378.30	30068378.33	0.0088	0.0087
Earth	77612-04-27 20:24 G	30068378.30	30068378.35	30068378.47	0.0088	0.0083 *
Mercury	77615-02-16 23:17 G	30069403.42	30069403.47	30069403.53	0.0088	0.0080
Mercury	77615-05-16 00:44 G	30069491.47	30069491.53	30069491.63	0.0088	0.0073
Mercury	77615-08-12 02:39 G	30069579.52	30069579.61	30069579.72	0.0088	0.0065
Mercury	77615-11-08 04:34 G	30069667.59	30069667.69	30069667.81	0.0088	0.0057
Mercury	77616-02-04 06:29 G	30069755.65	30069755.77	30069755.90	0.0088	0.0049
Mercury	77616-05-02 08:10 G	30069843.72	30069843.84	30069843.98	0.0088	0.0042
Mercury	77616-07-29 10:05 G	30069931.79	30069931.92	30069932.07	0.0088	0.0034
Mercury	77616-10-25 12:00 G	30070019.86	30070020.00	30070020.15	0.0088	0.0026
Mercury	77617-01-21 13:56 G	30070107.93	30070108.08	30070108.23	0.0088	0.0018
Mercury	77617-04-19 15:51 G	30070196.01	30070196.16	30070196.31	0.0088	0.0010
Mercury	77617-07-16 17:46 G	30070284.08	30070284.24	30070284.39	0.0088	0.0003
Mercury	77617-10-12 19:27 G	30070372.16	30070372.31	30070372.47	0.0088	0.0007
Mercury	77618-01-08 21:22 G	30070460.24	30070460.39	30070460.54	0.0088	0.0014
Mercury	77618-04-06 23:17 G	30070548.33	30070548.47	30070548.62	0.0088	0.0022
Mercury	77618-07-04 00:58 G	30070636.41	30070636.54	30070636.70	0.0088	0.0031
Mercury	77618-09-30 02:53 G	30070724.49	30070724.62	30070724.77	0.0088	0.0039
Mercury	77618-12-27 04:48 G	30070812.58	30070812.70	30070812.84	0.0088	0.0047
Mercury	77619-03-25 06:44 G	30070900.67	30070900.78	30070900.91	0.0088	0.0055
Mercury	77619-06-21 08:53 G	30070988.77	30070988.87	30070988.98	0.0088	0.0063
Mercury	77619-09-17 10:48 G	30071076.87	30071076.95	30071077.04	0.0088	0.0071
Mercury	77619-12-14 12:29 G	30071164.97	30071165.02	30071165.10	0.0088	0.0080
Mercury	77620-03-11 14:53 G	30071253.12	30071253.12	30071253.12	0.0088	0.0088
Mars	77639-09-24 01:27 G	30078388.30	30078388.56	30078388.86	0.0088	0.0025
Saturn	77640-10-24 11:46 G	30078784.68	30078784.99	30078785.47	0.0088	0.0073
Venus	77667-06-21 09:51 G	30088520.86	30088520.91	30088520.96	0.0089	0.0087
Venus	77668-02-01 22:05 G	30088746.35	30088746.42	30088746.55	0.0089	0.0080
Venus	77668-09-14 11:03 G	30088971.85	30088971.96	30088972.11	0.0089	0.0072
Venus	77669-04-28 00:00 G	30089197.37	30089197.50	30089197.67	0.0089	0.0064

Venus	77669-12-09 12:58 G	30089422.89	30089423.04	30089423.23	0.0089	0.0056
Venus	77670-07-23 01:56 G	30089648.41	30089648.58	30089648.78	0.0089	0.0048
Venus	77671-03-05 14:53 G	30089873.94	30089874.12	30089874.33	0.0089	0.0039
Venus	77671-10-17 03:51 G	30090099.47	30090099.66	30090099.87	0.0089	0.0031
Venus	77672-05-29 17:03 G	30090325.00	30090325.21	30090325.42	0.0089	0.0023
Venus	77673-01-10 06:00 G	30090550.53	30090550.75	30090550.96	0.0089	0.0015
Venus	77673-08-23 18:44 G	30090776.06	30090776.28	30090776.50	0.0089	0.0007
Venus	77674-04-06 07:27 G	30091001.60	30091001.81	30091002.03	0.0089	0.0003
Venus	77674-11-17 20:24 G	30091227.13	30091227.35	30091227.57	0.0089	0.0010
Venus	77675-07-01 09:22 G	30091452.68	30091452.89	30091453.11	0.0089	0.0018
Venus	77676-02-11 22:20 G	30091678.22	30091678.43	30091678.64	0.0090	0.0026
Venus	77676-09-24 11:03 G	30091903.76	30091903.96	30091904.17	0.0090	0.0034
Venus	77677-05-08 00:00 G	30092129.31	30092129.50	30092129.69	0.0090	0.0042
Venus	77677-12-19 12:29 G	30092354.86	30092355.02	30092355.22	0.0090	0.0051
Venus	77678-08-02 01:27 G	30092580.42	30092580.56	30092580.74	0.0090	0.0059
Venus	77679-03-15 14:24 G	30092805.97	30092806.10	30092806.26	0.0090	0.0067
Venus	77679-10-27 03:08 G	30093031.54	30093031.63	30093031.78	0.0090	0.0075
Venus	77680-06-08 16:05 G	30093257.12	30093257.17	30093257.28	0.0090	0.0083
Moon	77687-10-14 00:58 G	30095940.47	30095940.54	30095940.65	0.0090	0.0084
Earth	77687-10-14 02:39 G	30095940.54	30095940.61	30095940.74	0.0090	0.0083 *
Earth	77688-10-15 13:56 G	30096307.91	30096308.08	30096308.30	0.0090	0.0058
Moon	77688-10-15 17:03 G	30096308.02	30096308.21	30096308.41	0.0090	0.0056 *
Moon	77689-10-17 22:20 G	30096675.20	30096675.43	30096675.68	0.0090	0.0035
Earth	77689-10-18 01:12 G	30096675.33	30096675.55	30096675.81	0.0090	0.0033 *
Earth	77690-10-20 12:44 G	30097042.78	30097043.03	30097043.29	0.0090	0.0007
Moon	77690-10-20 16:34 G	30097042.94	30097043.19	30097043.44	0.0090	0.0005 *
Moon	77691-10-22 20:53 G	30097410.12	30097410.37	30097410.62	0.0090	0.0016
Earth	77691-10-23 00:00 G	30097410.25	30097410.50	30097410.75	0.0090	0.0018 *
Earth	77692-10-24 11:03 G	30097777.74	30097777.96	30097778.19	0.0090	0.0043
Moon	77692-10-24 14:10 G	30097777.87	30097778.09	30097778.31	0.0090	0.0046 *

Moon	77693-10-26 20:39 G	30098145.20	30098145.36	30098145.54	0.0090	0.0066
Earth	77693-10-26 22:34 G	30098145.28	30098145.44	30098145.60	0.0090	0.0068 *
Mercury	77697-05-29 12:44 G	30099455.98	30099456.03	30099456.11	0.0090	0.0082
Mercury	77697-08-25 15:36 G	30099544.05	30099544.15	30099544.25	0.0090	0.0072
Mercury	77697-11-21 17:46 G	30099632.14	30099632.24	30099632.37	0.0090	0.0063
Mercury	77698-02-17 20:39 G	30099720.23	30099720.36	30099720.49	0.0090	0.0053
Mercury	77698-05-16 23:03 G	30099808.32	30099808.46	30099808.61	0.0090	0.0044
Mercury	77698-08-13 01:27 G	30099896.42	30099896.56	30099896.72	0.0090	0.0035
Mercury	77698-11-09 04:05 G	30099984.51	30099984.67	30099984.83	0.0090	0.0025
Mercury	77699-02-05 06:29 G	30100072.61	30100072.77	30100072.94	0.0090	0.0016
Mercury	77699-05-04 09:08 G	30100160.71	30100160.88	30100161.04	0.0090	0.0007
Mercury	77699-07-31 11:32 G	30100248.81	30100248.98	30100249.14	0.0090	0.0003
Mercury	77699-10-27 13:56 G	30100336.92	30100337.08	30100337.24	0.0090	0.0012
Mercury	77700-01-23 16:20 G	30100425.02	30100425.18	30100425.34	0.0090	0.0021
Mercury	77700-04-21 18:44 G	30100513.13	30100513.28	30100513.43	0.0090	0.0030
Mercury	77700-07-18 21:08 G	30100601.23	30100601.38	30100601.53	0.0090	0.0039
Mercury	77700-10-14 23:32 G	30100689.34	30100689.48	30100689.62	0.0090	0.0048
Mercury	77701-01-11 01:56 G	30100777.45	30100777.58	30100777.70	0.0090	0.0057
Mercury	77701-04-09 04:05 G	30100865.57	30100865.67	30100865.78	0.0090	0.0066
Mercury	77701-07-06 06:29 G	30100953.69	30100953.77	30100953.86	0.0090	0.0075
Mercury	77701-10-02 08:39 G	30101041.82	30101041.86	30101041.93	0.0090	0.0084
Mars	77719-08-06 18:58 G	30107559.13	30107559.29	30107559.46	0.0089	0.0078
Mars	77721-07-03 00:15 G	30108255.47	30108255.51	30108255.65	0.0089	0.0087
Venus	77748-12-25 17:17 G	30118293.17	30118293.22	30118293.30	0.0088	0.0084
Venus	77749-08-08 06:44 G	30118518.68	30118518.78	30118518.89	0.0088	0.0077
Venus	77750-03-21 19:27 G	30118744.19	30118744.31	30118744.47	0.0088	0.0069
Venus	77750-11-02 08:39 G	30118969.72	30118969.86	30118970.04	0.0088	0.0061
Venus	77751-06-15 22:05 G	30119195.25	30119195.42	30119195.61	0.0088	0.0053
Venus	77752-01-27 11:17 G	30119420.79	30119420.97	30119421.17	0.0088	0.0045
Venus	77752-09-09 00:29 G	30119646.33	30119646.52	30119646.73	0.0088	0.0037



Venus	77753-04-22 13:27 G	30119871.86	30119872.06	30119872.28	0.0088	0.0030
Venus	77753-12-04 02:39 G	30120097.41	30120097.61	30120097.84	0.0088	0.0022
Venus	77754-07-17 16:05 G	30120322.95	30120323.17	30120323.39	0.0088	0.0014
Venus	77755-02-28 05:17 G	30120548.50	30120548.72	30120548.94	0.0088	0.0006
Venus	77755-10-11 18:29 G	30120774.04	30120774.27	30120774.49	0.0088	0.0002
Venus	77756-05-24 07:41 G	30120999.60	30120999.82	30121000.04	0.0088	0.0010
Venus	77757-01-04 20:53 G	30121225.15	30121225.37	30121225.59	0.0088	0.0018
Venus	77757-08-18 10:05 G	30121450.71	30121450.92	30121451.13	0.0088	0.0026
Venus	77758-03-31 23:03 G	30121676.26	30121676.46	30121676.67	0.0088	0.0034
Venus	77758-11-12 12:00 G	30121901.82	30121902.00	30121902.21	0.0088	0.0042
Venus	77759-06-26 01:12 G	30122127.38	30122127.55	30122127.75	0.0088	0.0050
Venus	77760-02-06 14:24 G	30122352.95	30122353.10	30122353.29	0.0088	0.0058
Venus	77760-09-19 03:51 G	30122578.52	30122578.66	30122578.81	0.0088	0.0065
Venus	77761-05-02 16:34 G	30122804.09	30122804.19	30122804.33	0.0088	0.0073
Venus	77761-12-14 05:32 G	30123029.67	30123029.73	30123029.84	0.0088	0.0081
Earth	77770-04-15 05:46 G	30126073.61	30126073.74	30126073.91	0.0088	0.0072
Moon	77770-04-15 09:08 G	30126073.73	30126073.88	30126074.05	0.0088	0.0069 *
Moon	77771-04-17 14:39 G	30126440.90	30126441.11	30126441.33	0.0088	0.0050
Earth	77771-04-17 18:29 G	30126441.05	30126441.27	30126441.49	0.0088	0.0047 *
Earth	77772-04-19 06:29 G	30126808.52	30126808.77	30126809.03	0.0088	0.0023
Moon	77772-04-19 09:51 G	30126808.66	30126808.91	30126809.18	0.0088	0.0021 *
Moon	77773-04-21 15:36 G	30127175.89	30127176.15	30127176.41	0.0088	0.0001
Earth	77773-04-21 18:44 G	30127176.02	30127176.28	30127176.54	0.0088	0.0001 *
Earth	77774-04-24 06:29 G	30127543.54	30127543.77	30127544.04	0.0088	0.0026
Moon	77774-04-24 08:53 G	30127543.63	30127543.87	30127544.14	0.0088	0.0028 *
Moon	77775-04-26 17:46 G	30127911.05	30127911.24	30127911.47	0.0088	0.0048
Earth	77775-04-26 18:44 G	30127911.08	30127911.28	30127911.51	0.0088	0.0050 *
Earth	77776-04-28 06:29 G	30128278.65	30128278.77	30128278.93	0.0088	0.0074
Moon	77776-04-28 06:44 G	30128278.66	30128278.78	30128278.94	0.0088	0.0075 *
Mercury	77779-08-18 20:53 G	30129486.34	30129486.37	30129486.43	0.0088	0.0083

Mercury	77779-11-14 22:48 G	30129574.38	30129574.45	30129574.54	0.0088	0.0075
Mercury	77780-02-11 00:44 G	30129662.44	30129662.53	30129662.63	0.0088	0.0067
Mercury	77780-05-09 02:39 G	30129750.50	30129750.61	30129750.72	0.0088	0.0059
Mercury	77780-08-05 04:05 G	30129838.56	30129838.67	30129838.80	0.0088	0.0052
Mercury	77780-11-01 06:00 G	30129926.63	30129926.75	30129926.89	0.0088	0.0044
Mercury	77781-01-28 07:56 G	30130014.70	30130014.83	30130014.97	0.0088	0.0036
Mercury	77781-04-26 09:51 G	30130102.77	30130102.91	30130103.05	0.0088	0.0028
Mercury	77781-07-23 11:46 G	30130190.84	30130190.99	30130191.13	0.0088	0.0020
Mercury	77781-10-19 13:27 G	30130278.91	30130279.06	30130279.21	0.0088	0.0012
Mercury	77782-01-15 15:22 G	30130366.99	30130367.14	30130367.29	0.0088	0.0004
Mercury	77782-04-13 17:17 G	30130455.07	30130455.22	30130455.37	0.0088	0.0004
Mercury	77782-07-10 19:12 G	30130543.15	30130543.30	30130543.45	0.0088	0.0012
Mercury	77782-10-06 20:53 G	30130631.23	30130631.37	30130631.52	0.0088	0.0020
Mercury	77783-01-02 22:48 G	30130719.31	30130719.45	30130719.60	0.0088	0.0028
Mercury	77783-04-01 00:44 G	30130807.40	30130807.53	30130807.67	0.0088	0.0036
Mercury	77783-06-28 02:39 G	30130895.48	30130895.61	30130895.75	0.0088	0.0044
Mercury	77783-09-24 04:20 G	30130983.57	30130983.68	30130983.82	0.0088	0.0053
Mercury	77783-12-21 06:15 G	30131071.66	30131071.76	30131071.88	0.0088	0.0061
Mercury	77784-03-18 08:10 G	30131159.76	30131159.84	30131159.95	0.0088	0.0069
Mercury	77784-06-14 10:20 G	30131247.86	30131247.93	30131248.01	0.0088	0.0077
Mercury	77784-09-10 12:15 G	30131335.98	30131336.01	30131336.05	0.0088	0.0085
Mars	77803-05-11 17:32 G	30138151.97	30138152.23	30138152.53	0.0088	0.0028
Venus	77831-09-24 21:22 G	30148515.38	30148515.39	30148515.44	0.0089	0.0089
Venus	77832-05-07 10:20 G	30148740.85	30148740.93	30148741.04	0.0089	0.0081
Venus	77832-12-18 23:17 G	30148966.35	30148966.47	30148966.61	0.0089	0.0073
Venus	77833-08-01 12:15 G	30149191.87	30149192.01	30149192.17	0.0089	0.0065
Venus	77834-03-15 00:58 G	30149417.38	30149417.54	30149417.72	0.0089	0.0057
Venus	77834-10-26 13:56 G	30149642.91	30149643.08	30149643.27	0.0089	0.0049
Venus	77835-06-09 02:53 G	30149868.44	30149868.62	30149868.82	0.0089	0.0041
Venus	77836-01-20 15:51 G	30150093.97	30150094.16	30150094.37	0.0089	0.0032

Venus	77836-09-02 04:34 G	30150319.49	30150319.69	30150319.91	0.0089	0.0025
Venus	77837-04-15 17:32 G	30150545.02	30150545.23	30150545.45	0.0089	0.0016
Venus	77837-11-27 06:29 G	30150770.56	30150770.77	30150770.99	0.0089	0.0008
Venus	77838-07-10 19:41 G	30150996.10	30150996.32	30150996.53	0.0089	0.0001
Venus	77839-02-21 08:24 G	30151221.64	30151221.85	30151222.07	0.0089	0.0009
Venus	77839-10-04 21:08 G	30151447.17	30151447.38	30151447.60	0.0090	0.0017
Venus	77840-05-17 10:05 G	30151672.71	30151672.92	30151673.13	0.0090	0.0025
Venus	77840-12-28 23:03 G	30151898.26	30151898.46	30151898.66	0.0090	0.0033
Venus	77841-08-11 11:32 G	30152123.80	30152123.98	30152124.19	0.0090	0.0042
Venus	77842-03-25 00:15 G	30152349.35	30152349.51	30152349.71	0.0090	0.0050
Venus	77842-11-05 13:12 G	30152574.90	30152575.05	30152575.23	0.0090	0.0058
Venus	77843-06-19 02:10 G	30152800.46	30152800.59	30152800.75	0.0090	0.0066
Venus	77844-01-30 15:08 G	30153026.02	30153026.13	30153026.27	0.0090	0.0074
Venus	77844-09-12 03:51 G	30153251.60	30153251.66	30153251.77	0.0090	0.0082
Venus	77845-04-25 17:03 G	30153477.21	30153477.21	30153477.23	0.0090	0.0089
Moon	77852-10-16 21:36 G	30156208.24	30156208.40	30156208.61	0.0090	0.0062
Earth	77852-10-17 01:41 G	30156208.40	30156208.57	30156208.74	0.0090	0.0066 *
Earth	77853-10-19 12:29 G	30156575.81	30156576.02	30156576.26	0.0090	0.0042
Moon	77853-10-19 15:51 G	30156575.96	30156576.16	30156576.40	0.0090	0.0046 *
Moon	77854-10-21 20:39 G	30156943.12	30156943.36	30156943.62	0.0090	0.0012
Earth	77854-10-21 23:46 G	30156943.25	30156943.49	30156943.75	0.0090	0.0017 *
Earth	77855-10-24 11:17 G	30157310.72	30157310.97	30157311.22	0.0090	0.0009
Moon	77855-10-24 13:27 G	30157310.80	30157311.06	30157311.32	0.0090	0.0004 *
Moon	77856-10-25 20:53 G	30157678.16	30157678.37	30157678.60	0.0090	0.0038
Earth	77856-10-25 22:20 G	30157678.21	30157678.43	30157678.68	0.0090	0.0034 *
Moon	77857-10-28 09:22 G	30158045.70	30158045.89	30158046.12	0.0090	0.0055
Earth	77857-10-28 09:22 G	30158045.71	30158045.89	30158046.10	0.0090	0.0059 *
Earth	77858-10-30 20:24 G	30158413.28	30158413.35	30158413.46	0.0090	0.0084
Moon	77858-10-30 22:05 G	30158413.39	30158413.42	30158413.47	0.0090	0.0088 *
Mercury	77861-11-29 09:36 G	30159538.86	30159538.90	30159538.97	0.0090	0.0085

Mercury	77862-02-25 12:15 G	30159626.93	30159627.01	30159627.11	0.0090	0.0075
Mercury	77862-05-24 14:39 G	30159715.01	30159715.11	30159715.24	0.0090	0.0066
Mercury	77862-08-20 17:32 G	30159803.10	30159803.23	30159803.36	0.0090	0.0056
Mercury	77862-11-16 19:56 G	30159891.20	30159891.33	30159891.48	0.0090	0.0047
Mercury	77863-02-12 22:34 G	30159979.29	30159979.44	30159979.59	0.0090	0.0037
Mercury	77863-05-12 00:58 G	30160067.39	30160067.54	30160067.71	0.0090	0.0028
Mercury	77863-08-08 03:36 G	30160155.49	30160155.65	30160155.81	0.0090	0.0018
Mercury	77863-11-04 06:00 G	30160243.59	30160243.75	30160243.92	0.0090	0.0009
Mercury	77864-01-31 08:39 G	30160331.69	30160331.86	30160332.02	0.0090	0.0001
Mercury	77864-04-28 11:03 G	30160419.80	30160419.96	30160420.12	0.0090	0.0009
Mercury	77864-07-25 13:27 G	30160507.90	30160508.06	30160508.22	0.0090	0.0019
Mercury	77864-10-21 15:51 G	30160596.01	30160596.16	30160596.32	0.0090	0.0028
Mercury	77865-01-17 18:15 G	30160684.11	30160684.26	30160684.41	0.0090	0.0037
Mercury	77865-04-15 20:39 G	30160772.22	30160772.36	30160772.50	0.0090	0.0046
Mercury	77865-07-12 23:03 G	30160860.33	30160860.46	30160860.59	0.0090	0.0055
Mercury	77865-10-09 01:12 G	30160948.45	30160948.55	30160948.67	0.0090	0.0064
Mercury	77866-01-05 03:36 G	30161036.57	30161036.65	30161036.75	0.0090	0.0073
Mercury	77866-04-03 06:00 G	30161124.69	30161124.75	30161124.82	0.0090	0.0082
Mars	77885-02-14 13:56 G	30168016.77	30168017.08	30168017.43	0.0089	0.0021
Venus	77913-03-31 03:51 G	30178287.64	30178287.66	30178287.74	0.0088	0.0087
Venus	77913-11-11 17:17 G	30178513.14	30178513.22	30178513.34	0.0088	0.0078
Venus	77914-06-25 06:44 G	30178738.66	30178738.78	30178738.93	0.0088	0.0070
Venus	77915-02-05 19:56 G	30178964.19	30178964.33	30178964.50	0.0088	0.0063
Venus	77915-09-19 09:22 G	30179189.72	30179189.89	30179190.07	0.0088	0.0054
Venus	77916-05-01 22:05 G	30179415.25	30179415.42	30179415.63	0.0088	0.0047
Venus	77916-12-13 11:32 G	30179640.79	30179640.98	30179641.19	0.0088	0.0039
Venus	77917-07-27 00:44 G	30179866.33	30179866.53	30179866.75	0.0088	0.0031
Venus	77918-03-09 13:56 G	30180091.87	30180092.08	30180092.30	0.0088	0.0023
Venus	77918-10-21 02:53 G	30180317.41	30180317.62	30180317.85	0.0088	0.0015
Venus	77919-06-03 16:20 G	30180542.96	30180543.18	30180543.40	0.0088	0.0007

Venus	77920-01-15 05:32 G	30180768.51	30180768.73	30180768.96	0.0088	0.0002
Venus	77920-08-27 18:44 G	30180994.06	30180994.28	30180994.50	0.0088	0.0009
Venus	77921-04-10 07:41 G	30181219.61	30181219.82	30181220.04	0.0088	0.0017
Venus	77921-11-21 20:53 G	30181445.16	30181445.37	30181445.59	0.0088	0.0025
Venus	77922-07-05 09:51 G	30181670.72	30181670.91	30181671.13	0.0088	0.0033
Venus	77923-02-15 23:03 G	30181896.28	30181896.46	30181896.67	0.0088	0.0041
Venus	77923-09-29 12:15 G	30182121.84	30182122.01	30182122.21	0.0088	0.0049
Venus	77924-05-12 01:12 G	30182347.40	30182347.55	30182347.74	0.0088	0.0057
Venus	77924-12-23 14:24 G	30182572.97	30182573.10	30182573.27	0.0088	0.0065
Venus	77925-08-06 04:05 G	30182798.55	30182798.67	30182798.80	0.0088	0.0072
Venus	77926-03-19 16:48 G	30183024.13	30183024.20	30183024.31	0.0088	0.0080
Venus	77926-10-31 06:15 G	30183249.76	30183249.76	30183249.77	0.0088	0.0088
Moon	77934-04-16 12:29 G	30185973.96	30185974.02	30185974.12	0.0088	0.0083
Earth	77934-04-16 15:51 G	30185974.08	30185974.16	30185974.29	0.0088	0.0080 *
Earth	77935-04-19 04:05 G	30186341.48	30186341.67	30186341.89	0.0088	0.0056
Moon	77935-04-19 07:27 G	30186341.62	30186341.81	30186342.05	0.0088	0.0052 *
Moon	77936-04-20 13:56 G	30186708.85	30186709.08	30186709.32	0.0088	0.0035
Earth	77936-04-20 16:05 G	30186708.94	30186709.17	30186709.43	0.0088	0.0032 *
Earth	77937-04-23 04:34 G	30187076.44	30187076.69	30187076.96	0.0088	0.0008
Moon	77937-04-23 06:29 G	30187076.50	30187076.77	30187077.04	0.0088	0.0004 *
Moon	77938-04-25 16:05 G	30187443.93	30187444.17	30187444.43	0.0088	0.0013
Earth	77938-04-25 16:48 G	30187443.95	30187444.20	30187444.46	0.0088	0.0017 *
Moon	77939-04-28 03:22 G	30187811.43	30187811.64	30187811.90	0.0088	0.0045
Earth	77939-04-28 04:48 G	30187811.48	30187811.70	30187811.94	0.0088	0.0041 *
Earth	77940-04-29 16:48 G	30188179.04	30188179.20	30188179.39	0.0088	0.0065
Moon	77940-04-29 18:15 G	30188179.10	30188179.26	30188179.46	0.0088	0.0062 *
Mercury	77944-02-18 19:12 G	30189569.26	30189569.30	30189569.34	0.0088	0.0084
Mercury	77944-05-16 20:39 G	30189657.30	30189657.36	30189657.44	0.0088	0.0077
Mercury	77944-08-12 22:34 G	30189745.36	30189745.44	30189745.54	0.0088	0.0069
Mercury	77944-11-09 00:29 G	30189833.41	30189833.52	30189833.63	0.0088	0.0061

Mercury	77945-02-05 01:56 G	30189921.48	30189921.58	30189921.71	0.0088	0.0054
Mercury	77945-05-04 03:51 G	30190009.54	30190009.66	30190009.80	0.0088	0.0046
Mercury	77945-07-31 05:46 G	30190097.61	30190097.74	30190097.88	0.0088	0.0038
Mercury	77945-10-27 07:41 G	30190185.68	30190185.82	30190185.96	0.0088	0.0030
Mercury	77946-01-23 09:22 G	30190273.75	30190273.89	30190274.04	0.0088	0.0022
Mercury	77946-04-21 11:17 G	30190361.82	30190361.97	30190362.12	0.0088	0.0014
Mercury	77946-07-18 13:12 G	30190449.90	30190450.05	30190450.20	0.0088	0.0006
Mercury	77946-10-14 15:08 G	30190537.97	30190538.13	30190538.28	0.0088	0.0003
Mercury	77947-01-10 16:48 G	30190626.05	30190626.20	30190626.35	0.0088	0.0010
Mercury	77947-04-08 18:44 G	30190714.13	30190714.28	30190714.43	0.0088	0.0017
Mercury	77947-07-05 20:24 G	30190802.21	30190802.35	30190802.50	0.0088	0.0026
Mercury	77947-10-01 22:20 G	30190890.30	30190890.43	30190890.58	0.0088	0.0034
Mercury	77947-12-29 00:15 G	30190978.38	30190978.51	30190978.65	0.0088	0.0042
Mercury	77948-03-26 02:10 G	30191066.47	30191066.59	30191066.72	0.0088	0.0050
Mercury	77948-06-22 04:05 G	30191154.56	30191154.67	30191154.79	0.0088	0.0058
Mercury	77948-09-18 06:00 G	30191242.66	30191242.75	30191242.85	0.0088	0.0066
Mercury	77948-12-15 07:41 G	30191330.76	30191330.82	30191330.91	0.0088	0.0075
Mercury	77949-03-13 09:36 G	30191418.87	30191418.90	30191418.97	0.0088	0.0083
Mars	77966-12-26 08:24 G	30197915.76	30197915.85	30197916.00	0.0088	0.0080
Mars	77968-11-19 00:15 G	30198609.31	30198609.51	30198609.77	0.0088	0.0055
Venus	77996-08-09 21:51 G	30208735.35	30208735.41	30208735.52	0.0089	0.0083
Venus	77997-03-23 10:48 G	30208960.85	30208960.95	30208961.09	0.0089	0.0074
Venus	77997-11-03 23:32 G	30209186.36	30209186.48	30209186.65	0.0089	0.0067
Venus	77998-06-17 12:44 G	30209411.88	30209412.03	30209412.21	0.0089	0.0058
Venus	77999-01-29 01:27 G	30209637.40	30209637.56	30209637.76	0.0089	0.0051
Venus	77999-09-11 14:24 G	30209862.92	30209863.10	30209863.31	0.0089	0.0042
Venus	78000-04-24 03:36 G	30210088.45	30210088.65	30210088.85	0.0089	0.0034
Venus	78000-12-05 16:20 G	30210313.98	30210314.18	30210314.40	0.0089	0.0026

# 79TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 79th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	78001-06-20 04:48	G	30210510.16	30210510.70	30210511.26	0.0089	0.0009	
Venus	78001-07-19 05:17	G	30210539.52	30210539.72	30210539.94	0.0089	0.0018	
Venus	78002-03-01 18:15	G	30210765.05	30210765.26	30210765.48	0.0089	0.0010	
Venus	78002-10-13 07:12	G	30210990.59	30210990.80	30210991.02	0.0089	0.0002	
Venus	78003-05-26 20:10	G	30211216.13	30211216.34	30211216.56	0.0089	0.0007	
Venus	78004-01-07 09:08	G	30211441.67	30211441.88	30211442.10	0.0089	0.0015	
Venus	78004-08-19 22:05	G	30211667.21	30211667.42	30211667.63	0.0089	0.0024	
Venus	78005-04-02 10:48	G	30211892.75	30211892.95	30211893.16	0.0090	0.0032	
Venus	78005-11-13 23:17	G	30212118.30	30212118.47	30212118.69	0.0090	0.0041	
Venus	78006-06-27 12:29	G	30212343.85	30212344.02	30212344.22	0.0090	0.0049	
Venus	78007-02-08 01:27	G	30212569.40	30212569.56	30212569.74	0.0090	0.0057	
Venus	78007-09-21 14:10	G	30212794.96	30212795.09	30212795.26	0.0090	0.0065	
Venus	78008-05-04 03:08	G	30213020.52	30213020.63	30213020.77	0.0090	0.0073	
Venus	78008-12-15 15:51	G	30213246.09	30213246.16	30213246.27	0.0090	0.0081	
Venus	78009-07-29 04:48	G	30213471.69	30213471.70	30213471.75	0.0090	0.0089	
Earth	78016-10-17 12:44	G	30216108.90	30216109.03	30216109.18	0.0090	0.0075	
Moon	78016-10-17 15:51	G	30216109.05	30216109.16	30216109.32	0.0090	0.0076	*
Moon	78017-10-19 21:08	G	30216476.18	30216476.38	30216476.60	0.0090	0.0049	
Earth	78017-10-19 23:32	G	30216476.30	30216476.48	30216476.72	0.0090	0.0051	*

Earth	78018-10-22 11:03 G	30216843.73	30216843.96	30216844.22	0.0090	0.0026
Moon	78018-10-22 13:41 G	30216843.82	30216844.07	30216844.32	0.0090	0.0027 *
Moon	78019-10-24 22:05 G	30217211.17	30217211.42	30217211.67	0.0090	0.0000
Earth	78019-10-24 22:34 G	30217211.19	30217211.44	30217211.70	0.0090	0.0001 *
Moon	78020-10-26 09:22 G	30217578.64	30217578.89	30217579.15	0.0090	0.0023
Earth	78020-10-26 09:22 G	30217578.66	30217578.89	30217579.15	0.0090	0.0025 *
Earth	78021-10-28 20:24 G	30217946.16	30217946.35	30217946.58	0.0090	0.0050
Moon	78021-10-28 22:20 G	30217946.23	30217946.43	30217946.63	0.0090	0.0051 *
Moon	78022-10-31 04:20 G	30218313.57	30218313.68	30218313.86	0.0090	0.0074
Earth	78022-10-31 07:56 G	30218313.69	30218313.83	30218313.98	0.0090	0.0074 *
Mercury	78026-05-31 06:15 G	30219621.74	30219621.76	30219621.81	0.0090	0.0088
Mercury	78026-08-27 09:08 G	30219709.80	30219709.88	30219709.96	0.0090	0.0078
Mercury	78026-11-23 11:32 G	30219797.88	30219797.98	30219798.10	0.0090	0.0069
Mercury	78027-02-19 14:10 G	30219885.97	30219886.09	30219886.22	0.0090	0.0059
Mercury	78027-05-18 16:34 G	30219974.07	30219974.19	30219974.34	0.0090	0.0050
Mercury	78027-08-14 19:27 G	30220062.16	30220062.31	30220062.46	0.0090	0.0040
Mercury	78027-11-10 21:51 G	30220150.26	30220150.41	30220150.57	0.0090	0.0031
Mercury	78028-02-07 00:15 G	30220238.36	30220238.51	30220238.68	0.0090	0.0022
Mercury	78028-05-05 02:53 G	30220326.46	30220326.62	30220326.79	0.0090	0.0012
Mercury	78028-08-01 05:32 G	30220414.56	30220414.73	30220414.89	0.0090	0.0003
Mercury	78028-10-28 07:56 G	30220502.67	30220502.83	30220502.99	0.0090	0.0007
Mercury	78029-01-24 10:20 G	30220590.77	30220590.93	30220591.09	0.0090	0.0016
Mercury	78029-04-22 12:44 G	30220678.88	30220679.03	30220679.19	0.0090	0.0025
Mercury	78029-07-19 15:08 G	30220766.98	30220767.13	30220767.29	0.0090	0.0034
Mercury	78029-10-15 17:32 G	30220855.09	30220855.23	30220855.38	0.0090	0.0043
Mercury	78030-01-11 19:41 G	30220943.21	30220943.32	30220943.47	0.0090	0.0053
Mercury	78030-04-09 22:05 G	30221031.32	30221031.42	30221031.56	0.0090	0.0062
Mercury	78030-07-07 00:29 G	30221119.44	30221119.52	30221119.64	0.0090	0.0071
Mercury	78030-10-03 02:53 G	30221207.56	30221207.62	30221207.71	0.0090	0.0080
Mercury	78030-12-30 05:32 G	30221295.71	30221295.73	30221295.76	0.0090	0.0088



Mars	78048-09-29 04:05 G	30227778.40	30227778.67	30227778.99	0.0089	0.0044
Venus	78077-07-02 15:22 G	30238282.13	30238282.14	30238282.17	0.0088	0.0088
Venus	78078-02-13 04:05 G	30238507.61	30238507.67	30238507.79	0.0088	0.0080
Venus	78078-09-26 17:32 G	30238733.12	30238733.23	30238733.38	0.0088	0.0072
Venus	78079-05-10 06:44 G	30238958.65	30238958.78	30238958.96	0.0088	0.0064
Venus	78079-12-21 20:10 G	30239184.19	30239184.34	30239184.53	0.0088	0.0056
Venus	78080-08-03 09:36 G	30239409.72	30239409.90	30239410.10	0.0088	0.0048
Venus	78081-03-16 22:48 G	30239635.26	30239635.45	30239635.66	0.0088	0.0040
Venus	78081-10-28 12:00 G	30239860.80	30239861.00	30239861.21	0.0088	0.0032
Venus	78082-06-11 01:12 G	30240086.34	30240086.55	30240086.77	0.0088	0.0024
Venus	78083-01-22 14:24 G	30240311.89	30240312.10	30240312.33	0.0088	0.0016
Venus	78083-09-05 03:36 G	30240537.43	30240537.65	30240537.88	0.0088	0.0008
Venus	78084-04-17 16:48 G	30240762.98	30240763.20	30240763.42	0.0088	0.0000
Venus	78084-11-29 06:00 G	30240988.52	30240988.75	30240988.97	0.0088	0.0008
Venus	78085-07-12 18:58 G	30241214.07	30241214.29	30241214.51	0.0088	0.0016
Venus	78086-02-23 08:10 G	30241439.63	30241439.84	30241440.06	0.0088	0.0024
Venus	78086-10-06 21:08 G	30241665.18	30241665.38	30241665.59	0.0088	0.0032
Venus	78087-05-20 10:05 G	30241890.73	30241890.92	30241891.13	0.0088	0.0040
Venus	78087-12-31 23:17 G	30242116.30	30242116.47	30242116.67	0.0088	0.0048
Venus	78088-08-13 12:29 G	30242341.86	30242342.02	30242342.20	0.0088	0.0056
Venus	78089-03-27 01:27 G	30242567.43	30242567.56	30242567.73	0.0088	0.0064
Venus	78089-11-07 14:24 G	30242793.00	30242793.10	30242793.25	0.0088	0.0072
Venus	78090-06-21 04:05 G	30243018.58	30243018.67	30243018.77	0.0088	0.0079
Venus	78091-02-01 17:17 G	30243244.20	30243244.22	30243244.25	0.0088	0.0087
Moon	78099-04-18 11:03 G	30246241.79	30246241.96	30246242.15	0.0088	0.0061
Earth	78099-04-18 13:41 G	30246241.90	30246242.07	30246242.25	0.0088	0.0064 *
Earth	78100-04-21 01:41 G	30246609.34	30246609.57	30246609.81	0.0088	0.0040
Moon	78100-04-21 02:24 G	30246609.38	30246609.60	30246609.85	0.0088	0.0044 *
Earth	78101-04-23 13:56 G	30246976.82	30246977.08	30246977.34	0.0088	0.0016
Moon	78101-04-23 14:10 G	30246976.84	30246977.09	30246977.34	0.0088	0.0013 *

Moon	78102-04-26 00:58 G	30247344.27	30247344.54	30247344.81	0.0088	0.0005
Earth	78102-04-26 02:10 G	30247344.33	30247344.59	30247344.85	0.0088	0.0008 *
Earth	78103-04-28 14:10 G	30247711.85	30247712.09	30247712.34	0.0088	0.0032
Moon	78103-04-28 16:34 G	30247711.97	30247712.19	30247712.43	0.0088	0.0036 *
Moon	78104-04-29 23:03 G	30248079.26	30248079.46	30248079.68	0.0088	0.0053
Earth	78104-04-30 02:24 G	30248079.40	30248079.60	30248079.80	0.0088	0.0056 *
Earth	78105-05-02 14:24 G	30248447.01	30248447.10	30248447.22	0.0088	0.0080
Moon	78105-05-02 17:46 G	30248447.18	30248447.24	30248447.35	0.0088	0.0083 *
Mercury	78108-08-19 17:03 G	30249652.19	30249652.21	30249652.24	0.0088	0.0086
Mercury	78108-11-15 18:29 G	30249740.22	30249740.27	30249740.35	0.0088	0.0079
Mercury	78109-02-11 20:24 G	30249828.27	30249828.35	30249828.44	0.0088	0.0071
Mercury	78109-05-10 22:20 G	30249916.33	30249916.43	30249916.53	0.0088	0.0063
Mercury	78109-08-07 00:00 G	30250004.39	30250004.50	30250004.62	0.0088	0.0056
Mercury	78109-11-03 01:41 G	30250092.46	30250092.57	30250092.71	0.0088	0.0048
Mercury	78110-01-30 03:36 G	30250180.52	30250180.65	30250180.79	0.0088	0.0040
Mercury	78110-04-28 05:17 G	30250268.59	30250268.72	30250268.87	0.0088	0.0033
Mercury	78110-07-25 07:12 G	30250356.66	30250356.80	30250356.95	0.0088	0.0025
Mercury	78110-10-21 09:08 G	30250444.73	30250444.88	30250445.03	0.0088	0.0017
Mercury	78111-01-17 11:03 G	30250532.81	30250532.96	30250533.11	0.0088	0.0009
Mercury	78111-04-15 12:44 G	30250620.88	30250621.03	30250621.18	0.0088	0.0002
Mercury	78111-07-12 14:39 G	30250708.96	30250709.11	30250709.26	0.0088	0.0007
Mercury	78111-10-08 16:34 G	30250797.04	30250797.19	30250797.34	0.0088	0.0015
Mercury	78112-01-04 18:15 G	30250885.12	30250885.26	30250885.41	0.0088	0.0023
Mercury	78112-04-01 20:10 G	30250973.20	30250973.34	30250973.48	0.0088	0.0031
Mercury	78112-06-28 22:05 G	30251061.28	30251061.42	30251061.56	0.0088	0.0039
Mercury	78112-09-25 00:00 G	30251149.37	30251149.50	30251149.63	0.0088	0.0047
Mercury	78112-12-22 01:27 G	30251237.46	30251237.56	30251237.70	0.0088	0.0056
Mercury	78113-03-20 03:22 G	30251325.55	30251325.64	30251325.76	0.0088	0.0064
Mercury	78113-06-16 05:17 G	30251413.65	30251413.72	30251413.82	0.0088	0.0072
Mercury	78113-09-12 07:27 G	30251501.76	30251501.81	30251501.88	0.0088	0.0080

Mars	78132-07-05 16:34 G	30258372.89	30258373.19	30258373.48	0.0088	0.0001
Venus	78160-11-12 09:36 G	30268729.85	30268729.90	30268730.00	0.0089	0.0084
Venus	78161-06-25 22:34 G	30268955.35	30268955.44	30268955.58	0.0089	0.0076
Venus	78162-02-06 11:17 G	30269180.86	30269180.97	30269181.14	0.0089	0.0069
Venus	78162-09-20 00:44 G	30269406.37	30269406.53	30269406.69	0.0089	0.0060
Venus	78163-05-03 13:12 G	30269631.88	30269632.05	30269632.24	0.0089	0.0052
Venus	78163-12-15 02:10 G	30269857.41	30269857.59	30269857.79	0.0089	0.0044
Venus	78164-07-27 14:53 G	30270082.93	30270083.12	30270083.33	0.0089	0.0036
Venus	78165-03-10 03:51 G	30270308.46	30270308.66	30270308.88	0.0089	0.0027
Venus	78165-10-21 16:34 G	30270533.99	30270534.19	30270534.42	0.0089	0.0020
Venus	78166-06-04 05:46 G	30270759.53	30270759.74	30270759.96	0.0089	0.0011
Venus	78167-01-15 18:44 G	30270985.06	30270985.28	30270985.50	0.0089	0.0003
Jupiter	78167-08-28 23:32 G	30271210.28	30271210.48	30271210.75	0.0089	0.0081
Venus	78167-08-29 07:41 G	30271210.60	30271210.82	30271211.04	0.0089	0.0006 *
Venus	78168-04-10 20:24 G	30271436.14	30271436.35	30271436.57	0.0089	0.0014
Venus	78168-11-22 09:22 G	30271661.68	30271661.89	30271662.10	0.0089	0.0022
Venus	78169-07-05 22:20 G	30271887.23	30271887.43	30271887.64	0.0089	0.0031
Venus	78170-02-16 11:32 G	30272112.78	30272112.98	30272113.17	0.0090	0.0039
Venus	78170-09-29 23:46 G	30272338.33	30272338.49	30272338.70	0.0090	0.0048
Venus	78171-05-13 12:44 G	30272563.88	30272564.03	30272564.22	0.0090	0.0056
Venus	78171-12-25 01:41 G	30272789.43	30272789.57	30272789.74	0.0090	0.0064
Venus	78172-08-06 14:39 G	30273015.00	30273015.11	30273015.25	0.0090	0.0072
Venus	78173-03-20 03:36 G	30273240.57	30273240.65	30273240.76	0.0090	0.0080
Venus	78173-10-31 16:20 G	30273466.16	30273466.18	30273466.24	0.0090	0.0088
Moon	78180-10-17 21:08 G	30276009.36	30276009.38	30276009.41	0.0090	0.0089
Earth	78180-10-17 23:17 G	30276009.40	30276009.47	30276009.58	0.0090	0.0084 *
Earth	78181-10-20 10:34 G	30276376.78	30276376.94	30276377.15	0.0090	0.0060
Moon	78181-10-20 12:15 G	30276376.82	30276377.01	30276377.24	0.0090	0.0055 *
Moon	78182-10-22 21:36 G	30276744.19	30276744.40	30276744.63	0.0090	0.0039
Earth	78182-10-22 22:05 G	30276744.20	30276744.42	30276744.67	0.0090	0.0035 *

Moon	78183-10-25 08:39 G	30277111.60	30277111.86	30277112.12	0.0090	0.0005
Earth	78183-10-25 09:36 G	30277111.66	30277111.90	30277112.16	0.0090	0.0010 *
Earth	78184-10-26 20:53 G	30277479.12	30277479.37	30277479.63	0.0090	0.0016
Moon	78184-10-26 23:03 G	30277479.21	30277479.46	30277479.70	0.0090	0.0011 *
Moon	78185-10-29 05:17 G	30277846.50	30277846.72	30277846.95	0.0090	0.0045
Earth	78185-10-29 08:10 G	30277846.61	30277846.84	30277847.07	0.0090	0.0040 *
Earth	78186-10-31 18:58 G	30278214.13	30278214.29	30278214.48	0.0090	0.0065
Moon	78186-10-31 22:34 G	30278214.27	30278214.44	30278214.64	0.0090	0.0060 *
Earth	78187-11-03 06:15 G	30278581.76	30278581.76	30278581.79	0.0090	0.0090
Mercury	78191-02-26 05:32 G	30279792.68	30279792.73	30279792.82	0.0090	0.0082
Mercury	78191-05-25 08:10 G	30279880.76	30279880.84	30279880.95	0.0090	0.0072
Mercury	78191-08-21 11:03 G	30279968.84	30279968.96	30279969.08	0.0090	0.0062
Mercury	78191-11-17 13:27 G	30280056.94	30280057.06	30280057.20	0.0090	0.0053
Mercury	78192-02-13 15:51 G	30280145.03	30280145.16	30280145.32	0.0090	0.0044
Mercury	78192-05-11 18:44 G	30280233.13	30280233.28	30280233.44	0.0090	0.0034
Mercury	78192-08-07 21:08 G	30280321.23	30280321.38	30280321.55	0.0090	0.0025
Mercury	78192-11-03 23:46 G	30280409.33	30280409.49	30280409.66	0.0090	0.0015
Mercury	78193-01-31 02:24 G	30280497.43	30280497.60	30280497.76	0.0090	0.0006
Mercury	78193-04-29 04:48 G	30280585.53	30280585.70	30280585.87	0.0090	0.0004
Mercury	78193-07-26 07:12 G	30280673.64	30280673.80	30280673.97	0.0090	0.0013
Mercury	78193-10-22 09:36 G	30280761.75	30280761.90	30280762.07	0.0090	0.0022
Mercury	78194-01-18 12:00 G	30280849.85	30280850.00	30280850.16	0.0090	0.0032
Mercury	78194-04-16 14:24 G	30280937.96	30280938.10	30280938.26	0.0090	0.0041
Mercury	78194-07-13 16:48 G	30281026.08	30281026.20	30281026.35	0.0090	0.0050
Mercury	78194-10-09 19:12 G	30281114.19	30281114.30	30281114.44	0.0090	0.0059
Mercury	78195-01-05 21:36 G	30281202.31	30281202.40	30281202.52	0.0090	0.0068
Mercury	78195-04-04 00:00 G	30281290.43	30281290.50	30281290.60	0.0090	0.0077
Mercury	78195-07-01 02:24 G	30281378.57	30281378.60	30281378.66	0.0090	0.0086
Mars	78214-04-10 23:17 G	30288236.22	30288236.47	30288236.76	0.0089	0.0054
Venus	78242-05-19 15:08 G	30298502.06	30298502.13	30298502.22	0.0088	0.0081

Venus	78242-12-31 04:34 G	30298727.58	30298727.69	30298727.82	0.0088	0.0074
Venus	78243-08-13 17:17 G	30298953.10	30298953.22	30298953.39	0.0088	0.0066
Venus	78244-03-26 06:44 G	30299178.63	30299178.78	30299178.96	0.0088	0.0058
Venus	78244-11-06 19:56 G	30299404.17	30299404.33	30299404.53	0.0088	0.0050
Venus	78245-06-20 09:08 G	30299629.70	30299629.88	30299630.10	0.0088	0.0042
Venus	78246-01-31 22:34 G	30299855.25	30299855.44	30299855.66	0.0088	0.0034
Venus	78246-09-14 11:46 G	30300080.79	30300080.99	30300081.22	0.0088	0.0026
Venus	78247-04-28 01:12 G	30300306.33	30300306.55	30300306.77	0.0088	0.0017
Venus	78247-12-09 14:24 G	30300531.88	30300532.10	30300532.33	0.0088	0.0009
Venus	78248-07-22 03:36 G	30300757.43	30300757.65	30300757.88	0.0088	0.0002
Venus	78249-03-04 16:48 G	30300982.98	30300983.20	30300983.42	0.0088	0.0007
Venus	78249-10-16 05:46 G	30301208.53	30301208.74	30301208.97	0.0088	0.0015
Venus	78250-05-29 18:58 G	30301434.08	30301434.29	30301434.51	0.0088	0.0023
Venus	78251-01-10 08:10 G	30301659.64	30301659.84	30301660.05	0.0088	0.0031
Venus	78251-08-23 21:08 G	30301885.19	30301885.38	30301885.59	0.0088	0.0039
Venus	78252-04-05 10:05 G	30302110.75	30302110.92	30302111.12	0.0088	0.0047
Venus	78252-11-16 23:17 G	30302336.31	30302336.47	30302336.66	0.0088	0.0055
Venus	78253-06-30 12:15 G	30302561.88	30302562.01	30302562.18	0.0088	0.0063
Venus	78254-02-11 01:27 G	30302787.45	30302787.56	30302787.71	0.0088	0.0071
Venus	78254-09-24 14:24 G	30303013.03	30303013.10	30303013.23	0.0088	0.0079
Venus	78255-05-08 04:20 G	30303238.64	30303238.68	30303238.71	0.0088	0.0086
Earth	78263-04-19 22:48 G	30306142.33	30306142.45	30306142.62	0.0088	0.0073
Moon	78263-04-20 00:00 G	30306142.38	30306142.50	30306142.65	0.0088	0.0075 *
Earth	78264-04-21 11:03 G	30306509.76	30306509.96	30306510.19	0.0088	0.0049
Moon	78264-04-21 12:00 G	30306509.79	30306510.00	30306510.22	0.0088	0.0046 *
Moon	78265-04-23 21:08 G	30306877.13	30306877.38	30306877.65	0.0088	0.0027
Earth	78265-04-23 23:17 G	30306877.23	30306877.47	30306877.73	0.0088	0.0025 *
Earth	78266-04-26 11:17 G	30307244.71	30307244.97	30307245.24	0.0088	0.0002
Moon	78266-04-26 13:56 G	30307244.82	30307245.08	30307245.34	0.0088	0.0002 *
Moon	78267-04-28 19:27 G	30307612.07	30307612.31	30307612.58	0.0088	0.0021

Earth	78267-04-28 23:32 G	30307612.23	30307612.48	30307612.73	0.0088	0.0023	*
Earth	78268-04-30 11:17 G	30307979.76	30307979.97	30307980.20	0.0088	0.0047	
Moon	78268-04-30 14:53 G	30307979.92	30307980.12	30307980.35	0.0088	0.0050	*
Moon	78269-05-02 19:41 G	30308347.18	30308347.32	30308347.51	0.0088	0.0068	
Earth	78269-05-02 23:32 G	30308347.34	30308347.48	30308347.65	0.0088	0.0071	*
Mercury	78273-05-17 16:34 G	30309823.14	30309823.19	30309823.25	0.0088	0.0081	
Mercury	78273-08-13 18:00 G	30309911.19	30309911.25	30309911.35	0.0088	0.0074	
Mercury	78273-11-09 19:56 G	30309999.24	30309999.33	30309999.44	0.0088	0.0066	
Mercury	78274-02-05 21:51 G	30310087.30	30310087.41	30310087.52	0.0088	0.0058	
Mercury	78274-05-04 23:32 G	30310175.37	30310175.48	30310175.61	0.0088	0.0050	
Mercury	78274-08-01 01:12 G	30310263.43	30310263.55	30310263.69	0.0088	0.0043	
Mercury	78274-10-28 03:08 G	30310351.50	30310351.63	30310351.77	0.0088	0.0035	
Mercury	78275-01-24 05:03 G	30310439.57	30310439.71	30310439.85	0.0088	0.0027	
Mercury	78275-04-22 06:44 G	30310527.64	30310527.78	30310527.93	0.0088	0.0019	
Mercury	78275-07-19 08:39 G	30310615.71	30310615.86	30310616.01	0.0088	0.0011	
Mercury	78275-10-15 10:34 G	30310703.79	30310703.94	30310704.09	0.0088	0.0004	
Mercury	78276-01-11 12:15 G	30310791.86	30310792.01	30310792.16	0.0088	0.0005	
Mercury	78276-04-08 14:10 G	30310879.94	30310880.09	30310880.24	0.0088	0.0012	
Mercury	78276-07-05 15:51 G	30310968.02	30310968.16	30310968.31	0.0088	0.0021	
Mercury	78276-10-01 17:46 G	30311056.10	30311056.24	30311056.39	0.0088	0.0028	
Mercury	78276-12-28 19:27 G	30311144.18	30311144.31	30311144.46	0.0088	0.0037	
Mercury	78277-03-26 21:22 G	30311232.27	30311232.39	30311232.53	0.0088	0.0045	
Mercury	78277-06-22 23:03 G	30311320.35	30311320.46	30311320.60	0.0088	0.0053	
Mercury	78277-09-19 00:58 G	30311408.45	30311408.54	30311408.66	0.0088	0.0061	
Mercury	78277-12-16 02:53 G	30311496.54	30311496.62	30311496.73	0.0088	0.0069	
Mercury	78278-03-14 04:48 G	30311584.64	30311584.70	30311584.79	0.0088	0.0077	
Mercury	78278-06-10 06:44 G	30311672.76	30311672.78	30311672.83	0.0088	0.0085	
Mars	78296-02-20 06:44 G	30318136.56	30318136.78	30318137.03	0.0088	0.0052	
Mars	78298-01-13 23:03 G	30318830.40	30318830.46	30318830.61	0.0088	0.0083	
Venus	78325-02-15 21:51 G	30328724.36	30328724.41	30328724.47	0.0089	0.0086	

Venus	78325-09-29 10:34 G	30328949.84	30328949.94	30328950.05	0.0089	0.0078
Venus	78326-05-12 23:17 G	30329175.34	30329175.47	30329175.61	0.0089	0.0070
Venus	78326-12-24 12:00 G	30329400.86	30329401.00	30329401.17	0.0089	0.0062
Venus	78327-08-07 00:58 G	30329626.37	30329626.54	30329626.72	0.0089	0.0053
Venus	78328-03-19 13:41 G	30329851.89	30329852.07	30329852.27	0.0089	0.0045
Venus	78328-10-31 02:24 G	30330077.42	30330077.60	30330077.81	0.0089	0.0037
Venus	78329-06-13 15:36 G	30330302.95	30330303.15	30330303.36	0.0089	0.0029
Venus	78330-01-25 04:20 G	30330528.48	30330528.68	30330528.90	0.0089	0.0021
Venus	78330-09-07 17:17 G	30330754.01	30330754.22	30330754.44	0.0089	0.0012
Venus	78331-04-21 06:15 G	30330979.54	30330979.76	30330979.98	0.0089	0.0004
Venus	78331-12-02 18:58 G	30331205.08	30331205.29	30331205.51	0.0089	0.0005
Venus	78332-07-15 08:10 G	30331430.62	30331430.84	30331431.05	0.0089	0.0013
Venus	78333-02-25 20:53 G	30331656.16	30331656.37	30331656.59	0.0089	0.0021
Venus	78333-10-09 09:36 G	30331881.71	30331881.90	30331882.12	0.0089	0.0030
Venus	78334-05-22 22:34 G	30332107.25	30332107.44	30332107.65	0.0089	0.0038
Venus	78335-01-03 11:46 G	30332332.80	30332332.99	30332333.18	0.0090	0.0046
Venus	78335-08-17 00:15 G	30332558.36	30332558.51	30332558.70	0.0090	0.0055
Venus	78336-03-29 13:12 G	30332783.91	30332784.05	30332784.22	0.0090	0.0063
Venus	78336-11-10 02:10 G	30333009.47	30333009.59	30333009.74	0.0090	0.0071
Venus	78337-06-23 15:08 G	30333235.04	30333235.13	30333235.25	0.0090	0.0079
Venus	78338-02-04 04:05 G	30333460.63	30333460.67	30333460.73	0.0090	0.0087
Earth	78345-10-21 20:39 G	30336277.22	30336277.36	30336277.55	0.0090	0.0069
Moon	78345-10-21 21:22 G	30336277.24	30336277.39	30336277.56	0.0090	0.0068 *
Moon	78346-10-24 07:12 G	30336644.59	30336644.80	30336645.05	0.0090	0.0044
Earth	78346-10-24 08:24 G	30336644.64	30336644.85	30336645.09	0.0090	0.0044 *
Earth	78347-10-26 19:56 G	30337012.09	30337012.33	30337012.59	0.0090	0.0019
Moon	78347-10-26 22:34 G	30337012.20	30337012.44	30337012.68	0.0090	0.0019 *
Moon	78348-10-28 04:05 G	30337379.42	30337379.67	30337379.93	0.0090	0.0006
Earth	78348-10-28 07:27 G	30337379.56	30337379.81	30337380.06	0.0090	0.0006 *
Earth	78349-10-30 18:29 G	30337747.04	30337747.27	30337747.51	0.0090	0.0031

Moon	78349-10-30 21:51 G	30337747.18	30337747.41	30337747.66	0.0090	0.0030 *
Moon	78350-11-02 02:10 G	30338114.40	30338114.59	30338114.80	0.0090	0.0056
Earth	78350-11-02 05:32 G	30338114.55	30338114.73	30338114.95	0.0090	0.0056 *
Earth	78351-11-04 16:48 G	30338482.10	30338482.20	30338482.32	0.0090	0.0080
Moon	78351-11-04 19:12 G	30338482.21	30338482.30	30338482.44	0.0090	0.0080 *
Mercury	78355-08-29 02:10 G	30339875.55	30339875.59	30339875.66	0.0090	0.0085
Mercury	78355-11-25 04:34 G	30339963.62	30339963.69	30339963.80	0.0090	0.0076
Mercury	78356-02-21 07:27 G	30340051.71	30340051.81	30340051.93	0.0090	0.0066
Mercury	78356-05-19 10:20 G	30340139.80	30340139.93	30340140.06	0.0090	0.0056
Mercury	78356-08-15 12:44 G	30340227.89	30340228.03	30340228.18	0.0090	0.0047
Mercury	78356-11-11 15:22 G	30340315.99	30340316.14	30340316.29	0.0090	0.0037
Mercury	78357-02-07 17:46 G	30340404.09	30340404.24	30340404.41	0.0090	0.0028
Mercury	78357-05-06 20:24 G	30340492.19	30340492.35	30340492.52	0.0090	0.0018
Mercury	78357-08-02 23:03 G	30340580.29	30340580.46	30340580.62	0.0090	0.0009
Mercury	78357-10-30 01:27 G	30340668.40	30340668.56	30340668.73	0.0090	0.0002
Mercury	78358-01-26 04:05 G	30340756.50	30340756.67	30340756.83	0.0090	0.0010
Mercury	78358-04-24 06:29 G	30340844.61	30340844.77	30340844.93	0.0090	0.0019
Mercury	78358-07-21 08:53 G	30340932.72	30340932.87	30340933.03	0.0090	0.0028
Mercury	78358-10-17 11:17 G	30341020.83	30341020.97	30341021.13	0.0090	0.0038
Mercury	78359-01-13 13:41 G	30341108.94	30341109.07	30341109.22	0.0090	0.0047
Mercury	78359-04-11 16:05 G	30341197.05	30341197.17	30341197.31	0.0090	0.0056
Mercury	78359-07-08 18:29 G	30341285.17	30341285.27	30341285.39	0.0090	0.0065
Mercury	78359-10-04 20:53 G	30341373.29	30341373.37	30341373.47	0.0090	0.0074
Mercury	78359-12-31 23:17 G	30341461.42	30341461.47	30341461.54	0.0090	0.0083
Mars	78377-11-23 14:10 G	30347997.76	30347998.09	30347998.44	0.0089	0.0011
Venus	78406-08-22 01:41 G	30358496.52	30358496.57	30358496.66	0.0088	0.0084
Venus	78407-04-04 14:53 G	30358722.02	30358722.12	30358722.25	0.0088	0.0076
Venus	78407-11-16 04:20 G	30358947.55	30358947.68	30358947.83	0.0088	0.0067
Venus	78408-06-28 17:32 G	30359173.08	30359173.23	30359173.40	0.0088	0.0059
Venus	78409-02-09 06:44 G	30359398.61	30359398.78	30359398.97	0.0088	0.0051



Venus	78409-09-22 19:56 G	30359624.15	30359624.33	30359624.54	0.0088	0.0043
Venus	78410-05-06 09:08 G	30359849.69	30359849.88	30359850.10	0.0088	0.0035
Venus	78410-12-17 22:34 G	30360075.24	30360075.44	30360075.66	0.0088	0.0027
Venus	78411-07-31 11:46 G	30360300.78	30360300.99	30360301.22	0.0088	0.0019
Venus	78412-03-13 00:58 G	30360526.32	30360526.54	30360526.77	0.0088	0.0011
Venus	78412-10-24 14:10 G	30360751.87	30360752.09	30360752.32	0.0088	0.0003
Venus	78413-06-07 03:22 G	30360977.42	30360977.64	30360977.86	0.0088	0.0006
Venus	78414-01-18 16:34 G	30361202.98	30361203.19	30361203.42	0.0088	0.0014
Venus	78414-09-01 05:32 G	30361428.53	30361428.73	30361428.96	0.0088	0.0022
Venus	78415-04-14 18:44 G	30361654.08	30361654.28	30361654.50	0.0088	0.0030
Venus	78415-11-26 07:41 G	30361879.63	30361879.82	30361880.03	0.0088	0.0038
Venus	78416-07-08 20:53 G	30362105.19	30362105.37	30362105.57	0.0088	0.0046
Venus	78417-02-19 09:51 G	30362330.75	30362330.91	30362331.10	0.0088	0.0054
Venus	78417-10-02 23:03 G	30362556.32	30362556.46	30362556.63	0.0088	0.0062
Venus	78418-05-16 12:00 G	30362781.88	30362782.00	30362782.15	0.0088	0.0070
Venus	78418-12-28 00:58 G	30363007.47	30363007.54	30363007.67	0.0088	0.0078
Venus	78419-08-10 14:10 G	30363233.07	30363233.09	30363233.16	0.0088	0.0086
Earth	78427-04-20 07:41 G	30366042.75	30366042.82	30366042.95	0.0088	0.0081
Moon	78427-04-20 08:53 G	30366042.83	30366042.87	30366042.95	0.0088	0.0085 *
Moon	78428-04-21 17:32 G	30366410.04	30366410.23	30366410.47	0.0088	0.0053
Earth	78428-04-21 20:10 G	30366410.15	30366410.34	30366410.55	0.0088	0.0057 *
Earth	78429-04-24 07:56 G	30366777.61	30366777.83	30366778.09	0.0088	0.0034
Moon	78429-04-24 11:17 G	30366777.75	30366777.97	30366778.22	0.0088	0.0038 *
Moon	78430-04-26 16:48 G	30367144.94	30367145.20	30367145.46	0.0088	0.0006
Earth	78430-04-26 20:10 G	30367145.09	30367145.34	30367145.61	0.0088	0.0010 *
Earth	78431-04-29 07:56 G	30367512.59	30367512.83	30367513.10	0.0088	0.0015
Moon	78431-04-29 11:46 G	30367512.74	30367512.99	30367513.27	0.0088	0.0011 *
Moon	78432-04-30 17:03 G	30367880.01	30367880.21	30367880.46	0.0088	0.0043
Earth	78432-04-30 20:10 G	30367880.12	30367880.34	30367880.59	0.0088	0.0038 *
Earth	78433-05-03 08:10 G	30368247.67	30368247.84	30368248.03	0.0088	0.0062

Moon	78433-05-03 10:34 G	30368247.76	30368247.94	30368248.16	0.0088	0.0059 *
Earth	78434-05-05 19:56 G	30368615.31	30368615.33	30368615.41	0.0088	0.0086
Mercury	78437-11-16 14:10 G	30369906.06	30369906.09	30369906.14	0.0088	0.0084
Mercury	78438-02-12 16:05 G	30369994.10	30369994.17	30369994.25	0.0088	0.0076
Mercury	78438-05-11 18:00 G	30370082.16	30370082.25	30370082.34	0.0088	0.0068
Mercury	78438-08-07 19:27 G	30370170.21	30370170.31	30370170.43	0.0088	0.0061
Mercury	78438-11-03 21:22 G	30370258.28	30370258.39	30370258.51	0.0088	0.0053
Mercury	78439-01-30 23:17 G	30370346.34	30370346.47	30370346.60	0.0088	0.0045
Mercury	78439-04-29 00:44 G	30370434.41	30370434.53	30370434.68	0.0088	0.0038
Mercury	78439-07-26 02:39 G	30370522.48	30370522.61	30370522.76	0.0088	0.0030
Mercury	78439-10-22 04:34 G	30370610.55	30370610.69	30370610.84	0.0088	0.0022
Mercury	78440-01-18 06:29 G	30370698.62	30370698.77	30370698.91	0.0088	0.0014
Mercury	78440-04-15 08:10 G	30370786.69	30370786.84	30370786.99	0.0088	0.0006
Mercury	78440-07-12 10:05 G	30370874.77	30370874.92	30370875.07	0.0088	0.0003
Mercury	78440-10-08 11:46 G	30370962.84	30370962.99	30370963.14	0.0088	0.0010
Mercury	78441-01-04 13:41 G	30371050.92	30371051.07	30371051.22	0.0088	0.0018
Mercury	78441-04-02 15:22 G	30371139.00	30371139.14	30371139.29	0.0088	0.0026
Mercury	78441-06-29 17:03 G	30371227.08	30371227.21	30371227.36	0.0088	0.0034
Mercury	78441-09-25 18:58 G	30371315.17	30371315.29	30371315.43	0.0088	0.0042
Mercury	78441-12-22 20:53 G	30371403.25	30371403.37	30371403.50	0.0088	0.0050
Mercury	78442-03-20 22:34 G	30371491.34	30371491.44	30371491.57	0.0088	0.0058
Mercury	78442-06-17 00:29 G	30371579.43	30371579.52	30371579.63	0.0088	0.0066
Mercury	78442-09-13 02:24 G	30371667.53	30371667.60	30371667.69	0.0088	0.0074
Mercury	78442-12-10 04:20 G	30371755.64	30371755.68	30371755.74	0.0088	0.0082
Mars	78461-08-30 12:29 G	30378593.76	30378594.02	30378594.32	0.0088	0.0028
Venus	78489-05-20 08:24 G	30388718.84	30388718.85	30388718.91	0.0089	0.0088
Venus	78489-12-31 21:51 G	30388944.31	30388944.41	30388944.50	0.0089	0.0080
Venus	78490-08-14 10:20 G	30389169.81	30389169.93	30389170.07	0.0089	0.0072
Venus	78491-03-27 23:03 G	30389395.32	30389395.46	30389395.63	0.0089	0.0064
Venus	78491-11-08 11:46 G	30389620.84	30389620.99	30389621.18	0.0089	0.0056

Venus	78492-06-21 00:44 G	30389846.36	30389846.53	30389846.73	0.0089	0.0048
Venus	78493-02-01 13:56 G	30390071.89	30390072.08	30390072.28	0.0089	0.0039
Venus	78493-09-15 02:39 G	30390297.41	30390297.61	30390297.82	0.0089	0.0031
Venus	78494-04-28 15:22 G	30390522.94	30390523.14	30390523.36	0.0089	0.0022
Venus	78494-12-10 04:05 G	30390748.47	30390748.67	30390748.90	0.0089	0.0015
Venus	78495-07-23 17:17 G	30390974.00	30390974.22	30390974.44	0.0089	0.0006
Venus	78496-03-05 06:15 G	30391199.54	30391199.76	30391199.97	0.0089	0.0003
Venus	78496-10-16 18:58 G	30391425.08	30391425.29	30391425.51	0.0089	0.0011
Venus	78497-05-30 07:41 G	30391650.62	30391650.82	30391651.04	0.0089	0.0020
Venus	78498-01-10 20:39 G	30391876.16	30391876.36	30391876.57	0.0089	0.0028
Venus	78498-08-24 09:22 G	30392101.71	30392101.89	30392102.11	0.0089	0.0037
Venus	78499-04-06 22:20 G	30392327.26	30392327.43	30392327.63	0.0089	0.0045
Venus	78499-11-18 11:32 G	30392552.81	30392552.98	30392553.16	0.0089	0.0053
Venus	78500-07-02 00:15 G	30392778.37	30392778.51	30392778.69	0.0090	0.0061
Venus	78501-02-12 13:12 G	30393003.93	30393004.05	30393004.20	0.0090	0.0070
Venus	78501-09-26 02:10 G	30393229.50	30393229.59	30393229.71	0.0090	0.0078
Venus	78502-05-09 15:08 G	30393455.08	30393455.13	30393455.20	0.0090	0.0086
Moon	78509-10-22 04:48 G	30396177.62	30396177.70	30396177.83	0.0090	0.0082
Earth	78509-10-22 06:58 G	30396177.69	30396177.79	30396177.94	0.0090	0.0078 *
Earth	78510-10-24 18:29 G	30396545.08	30396545.27	30396545.49	0.0090	0.0053
Moon	78510-10-24 20:53 G	30396545.18	30396545.37	30396545.60	0.0090	0.0049 *
Moon	78511-10-27 02:39 G	30396912.38	30396912.61	30396912.85	0.0090	0.0033
Earth	78511-10-27 06:15 G	30396912.52	30396912.76	30396913.00	0.0090	0.0028 *
Earth	78512-10-28 17:32 G	30397279.98	30397280.23	30397280.49	0.0090	0.0003
Moon	78512-10-28 21:08 G	30397280.12	30397280.38	30397280.63	0.0090	0.0002 *
Moon	78513-10-31 01:41 G	30397647.33	30397647.57	30397647.82	0.0090	0.0017
Earth	78513-10-31 04:48 G	30397647.47	30397647.70	30397647.96	0.0090	0.0022 *
Earth	78514-11-02 16:05 G	30398014.96	30398015.17	30398015.40	0.0090	0.0046
Moon	78514-11-02 18:58 G	30398015.08	30398015.29	30398015.51	0.0090	0.0051 *
Moon	78515-11-05 01:41 G	30398382.43	30398382.57	30398382.76	0.0090	0.0067

Earth	78515-11-05 03:08 G	30398382.49	30398382.63	30398382.80	0.0090	0.0071	*
Mercury	78520-02-27 22:34 G	30399958.44	30399958.44	30399958.48	0.0090	0.0089	
Mercury	78520-05-26 01:27 G	30400046.49	30400046.56	30400046.65	0.0090	0.0079	
Mercury	78520-08-22 03:51 G	30400134.57	30400134.66	30400134.78	0.0090	0.0070	
Mercury	78520-11-18 06:44 G	30400222.66	30400222.78	30400222.91	0.0090	0.0060	
Mercury	78521-02-14 09:08 G	30400310.75	30400310.88	30400311.03	0.0090	0.0051	
Mercury	78521-05-13 11:46 G	30400398.85	30400398.99	30400399.15	0.0090	0.0041	
Mercury	78521-08-09 14:24 G	30400486.95	30400487.10	30400487.26	0.0090	0.0031	
Mercury	78521-11-05 17:03 G	30400575.05	30400575.21	30400575.37	0.0090	0.0022	
Mercury	78522-02-01 19:27 G	30400663.15	30400663.31	30400663.48	0.0090	0.0013	
Mercury	78522-04-30 22:05 G	30400751.26	30400751.42	30400751.59	0.0090	0.0003	
Mercury	78522-07-28 00:44 G	30400839.36	30400839.53	30400839.69	0.0090	0.0006	
Mercury	78522-10-24 03:08 G	30400927.47	30400927.63	30400927.80	0.0090	0.0015	
Mercury	78523-01-20 05:32 G	30401015.58	30401015.73	30401015.89	0.0090	0.0025	
Mercury	78523-04-18 08:10 G	30401103.69	30401103.84	30401103.99	0.0090	0.0034	
Mercury	78523-07-15 10:34 G	30401191.80	30401191.94	30401192.09	0.0090	0.0043	
Mercury	78523-10-11 12:44 G	30401279.91	30401280.03	30401280.18	0.0090	0.0053	
Mercury	78524-01-07 15:08 G	30401368.03	30401368.13	30401368.26	0.0090	0.0062	
Mercury	78524-04-04 17:32 G	30401456.15	30401456.23	30401456.35	0.0090	0.0071	
Mercury	78524-07-01 19:56 G	30401544.28	30401544.33	30401544.42	0.0090	0.0080	
Mercury	78524-09-27 22:20 G	30401632.42	30401632.43	30401632.47	0.0090	0.0089	
Mars	78541-07-08 04:34 G	30407759.53	30407759.69	30407759.89	0.0089	0.0075	
Mars	78543-06-04 07:56 G	30408455.76	30408455.83	30408455.95	0.0089	0.0085	
Venus	78570-11-24 12:00 G	30418490.97	30418491.00	30418491.07	0.0088	0.0086	
Venus	78571-07-08 01:27 G	30418716.46	30418716.56	30418716.67	0.0088	0.0077	
Venus	78572-02-18 14:24 G	30418941.98	30418942.10	30418942.25	0.0088	0.0070	
Venus	78572-10-01 03:36 G	30419167.51	30419167.65	30419167.82	0.0088	0.0061	
Venus	78573-05-14 16:48 G	30419393.04	30419393.20	30419393.39	0.0088	0.0053	
Venus	78573-12-26 06:15 G	30419618.58	30419618.76	30419618.96	0.0088	0.0045	
Venus	78574-08-08 19:27 G	30419844.12	30419844.31	30419844.52	0.0088	0.0037	

Venus	78575-03-22 08:39 G	30420069.66	30420069.86	30420070.08	0.0088	0.0029
Venus	78575-11-02 21:51 G	30420295.20	30420295.41	30420295.64	0.0088	0.0021
Jupiter	78576-04-27 22:48 G	30420472.03	30420472.45	30420472.98	0.0088	0.0042
Venus	78576-06-15 11:03 G	30420520.75	30420520.96	30420521.19	0.0088	0.0013
Venus	78577-01-27 00:44 G	30420746.31	30420746.53	30420746.75	0.0088	0.0004
Venus	78577-09-09 13:56 G	30420971.85	30420972.08	30420972.30	0.0088	0.0004
Venus	78578-04-23 02:53 G	30421197.41	30421197.62	30421197.85	0.0088	0.0012
Venus	78578-12-04 16:05 G	30421422.96	30421423.17	30421423.39	0.0088	0.0020
Venus	78579-07-18 05:32 G	30421648.51	30421648.73	30421648.94	0.0088	0.0028
Venus	78580-02-28 18:15 G	30421874.07	30421874.26	30421874.48	0.0088	0.0037
Venus	78580-10-11 07:12 G	30422099.63	30422099.80	30422100.01	0.0088	0.0045
Venus	78581-05-24 20:24 G	30422325.19	30422325.35	30422325.54	0.0088	0.0053
Venus	78582-01-05 09:36 G	30422550.76	30422550.90	30422551.08	0.0088	0.0061
Venus	78582-08-18 22:34 G	30422776.33	30422776.44	30422776.60	0.0088	0.0069
Venus	78583-04-01 11:32 G	30423001.90	30423001.98	30423002.11	0.0088	0.0077
Venus	78583-11-13 00:29 G	30423227.49	30423227.52	30423227.61	0.0088	0.0085
Earth	78592-04-22 04:20 G	30426310.53	30426310.68	30426310.87	0.0088	0.0066
Moon	78592-04-22 07:41 G	30426310.68	30426310.82	30426311.00	0.0088	0.0068 *
Moon	78593-04-24 12:58 G	30426677.81	30426678.04	30426678.27	0.0088	0.0041
Earth	78593-04-24 16:34 G	30426677.97	30426678.19	30426678.43	0.0088	0.0042 *
Earth	78594-04-27 04:20 G	30427045.44	30427045.68	30427045.95	0.0088	0.0019
Moon	78594-04-27 07:41 G	30427045.58	30427045.82	30427046.09	0.0088	0.0021 *
Moon	78595-04-29 13:41 G	30427412.82	30427413.07	30427413.33	0.0088	0.0007
Earth	78595-04-29 16:34 G	30427412.94	30427413.19	30427413.46	0.0088	0.0006 *
Earth	78596-05-01 04:20 G	30427780.44	30427780.68	30427780.94	0.0088	0.0029
Moon	78596-05-01 06:15 G	30427780.50	30427780.76	30427781.02	0.0088	0.0027 *
Moon	78597-05-03 15:22 G	30428147.96	30428148.14	30428148.36	0.0088	0.0055
Earth	78597-05-03 16:05 G	30428147.98	30428148.17	30428148.40	0.0088	0.0053 *
Moon	78598-05-06 03:36 G	30428515.53	30428515.65	30428515.82	0.0088	0.0074
Earth	78598-05-06 03:51 G	30428515.57	30428515.66	30428515.82	0.0088	0.0077 *

Mercury	78602-05-19 11:46 G	30429988.98	30429988.99	30429989.02	0.0088	0.0087
Mercury	78602-08-15 13:41 G	30430077.01	30430077.07	30430077.14	0.0088	0.0079
Mercury	78602-11-11 15:08 G	30430165.06	30430165.13	30430165.23	0.0088	0.0072
Mercury	78603-02-07 17:03 G	30430253.12	30430253.21	30430253.32	0.0088	0.0064
Mercury	78603-05-06 18:58 G	30430341.18	30430341.29	30430341.41	0.0088	0.0056
Mercury	78603-08-02 20:24 G	30430429.24	30430429.35	30430429.49	0.0088	0.0049
Mercury	78603-10-29 22:20 G	30430517.31	30430517.43	30430517.57	0.0088	0.0041
Mercury	78604-01-26 00:15 G	30430605.38	30430605.51	30430605.65	0.0088	0.0033
Mercury	78604-04-23 02:10 G	30430693.44	30430693.59	30430693.73	0.0088	0.0025
Mercury	78604-07-20 03:51 G	30430781.52	30430781.66	30430781.81	0.0088	0.0017
Mercury	78604-10-16 05:32 G	30430869.59	30430869.73	30430869.89	0.0088	0.0010
Mercury	78605-01-12 07:27 G	30430957.66	30430957.81	30430957.96	0.0088	0.0002
Mercury	78605-04-10 09:22 G	30431045.74	30431045.89	30431046.04	0.0088	0.0007
Mercury	78605-07-07 11:03 G	30431133.81	30431133.96	30431134.11	0.0088	0.0014
Mercury	78605-10-03 12:44 G	30431221.89	30431222.03	30431222.18	0.0088	0.0023
Mercury	78605-12-30 14:39 G	30431309.97	30431310.11	30431310.26	0.0088	0.0030
Mercury	78606-03-28 16:34 G	30431398.06	30431398.19	30431398.33	0.0088	0.0038
Mercury	78606-06-24 18:29 G	30431486.14	30431486.27	30431486.40	0.0088	0.0046
Mercury	78606-09-20 19:56 G	30431574.23	30431574.33	30431574.47	0.0088	0.0055
Mercury	78606-12-17 21:51 G	30431662.32	30431662.41	30431662.53	0.0088	0.0063
Mercury	78607-03-15 23:46 G	30431750.41	30431750.49	30431750.59	0.0088	0.0071
Mercury	78607-06-12 01:41 G	30431838.52	30431838.57	30431838.65	0.0088	0.0079
Mercury	78607-09-08 03:36 G	30431926.64	30431926.65	30431926.68	0.0088	0.0087
Mars	78625-04-17 01:41 G	30438357.29	30438357.57	30438357.85	0.0088	0.0027
Venus	78654-04-06 07:56 G	30448938.78	30448938.83	30448938.94	0.0089	0.0083
Venus	78654-11-17 20:53 G	30449164.27	30449164.37	30449164.52	0.0089	0.0074
Venus	78655-07-01 10:20 G	30449389.79	30449389.93	30449390.08	0.0089	0.0066
Venus	78656-02-11 23:03 G	30449615.31	30449615.46	30449615.64	0.0089	0.0058
Venus	78656-09-24 11:46 G	30449840.82	30449840.99	30449841.19	0.0089	0.0050
Venus	78657-05-08 00:58 G	30450066.35	30450066.54	30450066.73	0.0089	0.0041

Venus	78657-12-19 13:41 G	30450291.87	30450292.07	30450292.27	0.0089	0.0033
Venus	78658-08-02 02:24 G	30450517.40	30450517.60	30450517.82	0.0089	0.0024
Venus	78659-03-15 15:22 G	30450742.93	30450743.14	30450743.36	0.0089	0.0016
Venus	78659-10-27 04:05 G	30450968.46	30450968.67	30450968.89	0.0089	0.0008
Venus	78660-06-08 17:03 G	30451194.00	30451194.21	30451194.43	0.0089	0.0002
Venus	78661-01-20 05:46 G	30451419.53	30451419.74	30451419.96	0.0089	0.0010
Venus	78661-09-02 18:44 G	30451645.07	30451645.28	30451645.50	0.0089	0.0018
Venus	78662-04-16 07:27 G	30451870.61	30451870.81	30451871.02	0.0089	0.0026
Venus	78662-11-27 20:10 G	30452096.15	30452096.34	30452096.55	0.0089	0.0035
Venus	78663-07-11 09:22 G	30452321.71	30452321.89	30452322.09	0.0090	0.0043
Venus	78664-02-21 22:05 G	30452547.26	30452547.42	30452547.61	0.0090	0.0052
Venus	78664-10-04 11:03 G	30452772.81	30452772.96	30452773.13	0.0090	0.0060
Venus	78665-05-18 00:00 G	30452998.37	30452998.50	30452998.65	0.0090	0.0068
Venus	78665-12-29 12:29 G	30453223.93	30453224.02	30453224.16	0.0090	0.0077
Venus	78666-08-12 01:41 G	30453449.52	30453449.57	30453449.66	0.0090	0.0085
Earth	78673-10-22 16:20 G	30456078.14	30456078.18	30456078.26	0.0090	0.0087
Moon	78673-10-22 19:41 G	30456078.31	30456078.32	30456078.37	0.0090	0.0089
Moon	78674-10-25 00:15 G	30456445.34	30456445.51	30456445.72	0.0090	0.0061
Earth	78674-10-25 03:36 G	30456445.49	30456445.65	30456445.85	0.0090	0.0063 *
Earth	78675-10-27 15:08 G	30456812.91	30456813.13	30456813.37	0.0090	0.0038
Moon	78675-10-27 18:29 G	30456813.06	30456813.27	30456813.52	0.0090	0.0039 *
Moon	78676-10-28 23:46 G	30457180.25	30457180.49	30457180.74	0.0090	0.0012
Earth	78676-10-29 02:53 G	30457180.37	30457180.62	30457180.87	0.0090	0.0013 *
Earth	78677-10-31 13:56 G	30457547.84	30457548.08	30457548.34	0.0090	0.0012
Moon	78677-10-31 16:05 G	30457547.92	30457548.17	30457548.44	0.0090	0.0012 *
Moon	78678-11-03 00:00 G	30457915.29	30457915.50	30457915.73	0.0090	0.0037
Earth	78678-11-03 01:12 G	30457915.33	30457915.55	30457915.80	0.0090	0.0037 *
Moon	78679-11-05 12:00 G	30458282.83	30458283.00	30458283.22	0.0090	0.0060
Earth	78679-11-05 12:44 G	30458282.85	30458283.03	30458283.22	0.0090	0.0061 *
Earth	78680-11-06 23:32 G	30458650.44	30458650.48	30458650.59	0.0090	0.0086

Moon	78680-11-07 00:44 G	30458650.50	30458650.53	30458650.63	0.0090	0.0087 *
Mercury	78684-11-24 21:51 G	30460129.36	30460129.41	30460129.48	0.0090	0.0083
Mercury	78685-02-21 00:15 G	30460217.43	30460217.51	30460217.62	0.0090	0.0074
Mercury	78685-05-20 02:53 G	30460305.52	30460305.62	30460305.75	0.0090	0.0064
Mercury	78685-08-16 05:46 G	30460393.61	30460393.74	30460393.88	0.0090	0.0054
Mercury	78685-11-12 08:10 G	30460481.71	30460481.84	30460482.00	0.0090	0.0045
Mercury	78686-02-08 11:03 G	30460569.81	30460569.96	30460570.11	0.0090	0.0035
Mercury	78686-05-07 13:27 G	30460657.91	30460658.06	30460658.23	0.0090	0.0026
Mercury	78686-08-03 16:05 G	30460746.01	30460746.17	30460746.34	0.0090	0.0016
Mercury	78686-10-30 18:44 G	30460834.11	30460834.28	30460834.45	0.0090	0.0007
Mercury	78687-01-26 21:08 G	30460922.22	30460922.38	30460922.55	0.0090	0.0003
Mercury	78687-04-24 23:46 G	30461010.32	30461010.49	30461010.65	0.0090	0.0012
Mercury	78687-07-22 02:10 G	30461098.43	30461098.59	30461098.75	0.0090	0.0021
Mercury	78687-10-18 04:34 G	30461186.54	30461186.69	30461186.85	0.0090	0.0031
Mercury	78688-01-14 06:58 G	30461274.65	30461274.79	30461274.95	0.0090	0.0040
Mercury	78688-04-11 09:36 G	30461362.77	30461362.90	30461363.04	0.0090	0.0049
Mercury	78688-07-08 12:00 G	30461450.88	30461451.00	30461451.13	0.0090	0.0058
Mercury	78688-10-04 14:24 G	30461539.00	30461539.10	30461539.22	0.0090	0.0067
Mercury	78688-12-31 16:48 G	30461627.13	30461627.20	30461627.30	0.0090	0.0076
Mercury	78689-03-29 19:12 G	30461715.26	30461715.30	30461715.36	0.0090	0.0085
Mars	78707-01-17 21:08 G	30468217.06	30468217.38	30468217.72	0.0089	0.0019
Venus	78735-02-27 22:20 G	30478485.42	30478485.43	30478485.47	0.0088	0.0087
Venus	78735-10-11 11:32 G	30478710.90	30478710.98	30478711.08	0.0088	0.0079
Venus	78736-05-24 00:44 G	30478936.41	30478936.53	30478936.67	0.0088	0.0071
Venus	78737-01-04 13:56 G	30479161.94	30479162.08	30479162.25	0.0088	0.0063
Venus	78737-08-18 03:08 G	30479387.47	30479387.63	30479387.81	0.0088	0.0055
Venus	78738-03-31 16:05 G	30479613.00	30479613.17	30479613.37	0.0088	0.0047
Venus	78738-11-12 05:17 G	30479838.53	30479838.72	30479838.93	0.0088	0.0039
Venus	78739-06-25 18:29 G	30480064.07	30480064.27	30480064.49	0.0088	0.0031
Venus	78740-02-06 07:41 G	30480289.62	30480289.82	30480290.05	0.0088	0.0023



Venus	78740-09-18 21:08 G	30480515.16	30480515.38	30480515.60	0.0088	0.0014
Venus	78741-05-02 10:20 G	30480740.71	30480740.93	30480741.15	0.0088	0.0006
Venus	78741-12-13 23:32 G	30480966.26	30480966.48	30480966.71	0.0088	0.0003
Jupiter	78742-06-28 14:24 G	30481162.63	30481163.10	30481163.60	0.0088	0.0039
Venus	78742-07-27 12:44 G	30481191.81	30481192.03	30481192.26	0.0088	0.0011
Venus	78743-03-10 01:56 G	30481417.37	30481417.58	30481417.80	0.0088	0.0019
Venus	78743-10-21 14:53 G	30481642.92	30481643.12	30481643.35	0.0088	0.0027
Venus	78744-06-03 04:05 G	30481868.48	30481868.67	30481868.89	0.0088	0.0035
Venus	78745-01-14 17:32 G	30482094.04	30482094.23	30482094.43	0.0088	0.0043
Venus	78745-08-28 06:44 G	30482319.60	30482319.78	30482319.96	0.0088	0.0051
Venus	78746-04-10 19:41 G	30482545.17	30482545.32	30482545.49	0.0088	0.0059
Venus	78746-11-22 08:53 G	30482770.73	30482770.87	30482771.02	0.0088	0.0067
Venus	78747-07-05 21:51 G	30482996.31	30482996.41	30482996.53	0.0088	0.0075
Venus	78748-02-16 11:03 G	30483221.90	30483221.96	30483222.04	0.0088	0.0083
Moon	78756-04-23 08:53 G	30486210.77	30486210.87	30486210.99	0.0088	0.0079
Earth	78756-04-23 12:00 G	30486210.89	30486211.00	30486211.17	0.0088	0.0075 *
Earth	78757-04-26 00:29 G	30486578.32	30486578.52	30486578.74	0.0088	0.0051
Moon	78757-04-26 03:51 G	30486578.44	30486578.66	30486578.89	0.0088	0.0046 *
Moon	78758-04-28 10:20 G	30486945.71	30486945.93	30486946.18	0.0088	0.0032
Earth	78758-04-28 12:29 G	30486945.79	30486946.02	30486946.28	0.0088	0.0028 *
Earth	78759-05-01 00:44 G	30487313.27	30487313.53	30487313.79	0.0088	0.0004
Moon	78759-05-01 02:24 G	30487313.33	30487313.60	30487313.87	0.0088	0.0001 *
Earth	78760-05-02 12:44 G	30487680.78	30487681.03	30487681.29	0.0088	0.0020
Moon	78760-05-02 12:44 G	30487680.79	30487681.03	30487681.28	0.0088	0.0016 *
Moon	78761-05-04 22:48 G	30488048.25	30488048.45	30488048.70	0.0088	0.0048
Earth	78761-05-05 00:15 G	30488048.30	30488048.51	30488048.75	0.0088	0.0044 *
Earth	78762-05-07 12:29 G	30488415.86	30488416.02	30488416.20	0.0088	0.0067
Moon	78762-05-07 14:24 G	30488415.93	30488416.10	30488416.29	0.0088	0.0063 *
Mercury	78767-02-14 11:03 G	30490159.92	30490159.96	30490160.02	0.0088	0.0083
Mercury	78767-05-13 12:44 G	30490247.97	30490248.03	30490248.12	0.0088	0.0075

Mercury	78767-08-09 14:53 G	30490336.02	30490336.12	30490336.21	0.0088	0.0067
Mercury	78767-11-05 16:20 G	30490424.08	30490424.18	30490424.30	0.0088	0.0060
Mercury	78768-02-01 18:15 G	30490512.14	30490512.26	30490512.38	0.0088	0.0052
Mercury	78768-04-29 19:56 G	30490600.21	30490600.33	30490600.46	0.0088	0.0044
Mercury	78768-07-26 21:36 G	30490688.27	30490688.40	30490688.54	0.0088	0.0037
Mercury	78768-10-22 23:32 G	30490776.34	30490776.48	30490776.62	0.0088	0.0029
Mercury	78769-01-19 01:12 G	30490864.41	30490864.55	30490864.70	0.0088	0.0021
Mercury	78769-04-17 03:08 G	30490952.48	30490952.63	30490952.78	0.0088	0.0013
Mercury	78769-07-14 04:48 G	30491040.55	30491040.70	30491040.85	0.0088	0.0006
Mercury	78769-10-10 06:44 G	30491128.63	30491128.78	30491128.93	0.0088	0.0003
Mercury	78770-01-06 08:24 G	30491216.71	30491216.85	30491217.00	0.0088	0.0011
Mercury	78770-04-04 10:20 G	30491304.78	30491304.93	30491305.08	0.0088	0.0019
Mercury	78770-07-01 12:00 G	30491392.86	30491393.00	30491393.15	0.0088	0.0027
Mercury	78770-09-27 13:41 G	30491480.94	30491481.07	30491481.22	0.0088	0.0035
Mercury	78770-12-24 15:36 G	30491569.03	30491569.15	30491569.29	0.0088	0.0043
Mercury	78771-03-22 17:17 G	30491657.11	30491657.22	30491657.36	0.0088	0.0051
Mercury	78771-06-18 19:12 G	30491745.20	30491745.30	30491745.42	0.0088	0.0059
Mercury	78771-09-14 21:08 G	30491833.29	30491833.38	30491833.49	0.0088	0.0067
Mercury	78771-12-11 23:03 G	30491921.39	30491921.46	30491921.55	0.0088	0.0075
Mercury	78772-03-09 00:58 G	30492009.50	30492009.54	30492009.60	0.0088	0.0083
Mars	78788-12-01 12:00 G	30498120.92	30498121.00	30498121.13	0.0088	0.0083
Mars	78790-10-26 05:46 G	30498814.54	30498814.74	30498815.01	0.0088	0.0053
Venus	78818-07-09 18:29 G	30508933.22	30508933.27	30508933.35	0.0089	0.0085
Venus	78819-02-20 07:12 G	30509158.71	30509158.80	30509158.93	0.0089	0.0077
Venus	78819-10-03 20:10 G	30509384.22	30509384.34	30509384.50	0.0089	0.0068
Venus	78820-05-16 08:53 G	30509609.73	30509609.87	30509610.05	0.0089	0.0060
Venus	78820-12-27 22:05 G	30509835.25	30509835.42	30509835.61	0.0089	0.0052
Venus	78821-08-10 10:48 G	30510060.78	30510060.95	30510061.16	0.0089	0.0044
Venus	78822-03-24 00:00 G	30510286.30	30510286.50	30510286.70	0.0089	0.0035
Venus	78822-11-04 12:44 G	30510511.83	30510512.03	30510512.25	0.0089	0.0027

Venus	78823-06-18 01:41 G	30510737.36	30510737.57	30510737.79	0.0089	0.0018
Venus	78824-01-29 14:39 G	30510962.90	30510963.11	30510963.33	0.0089	0.0010
Venus	78824-09-11 03:36 G	30511188.43	30511188.65	30511188.86	0.0089	0.0002
Venus	78825-04-24 16:20 G	30511413.96	30511414.18	30511414.40	0.0089	0.0007
Venus	78825-12-06 05:03 G	30511639.50	30511639.71	30511639.93	0.0089	0.0016
Venus	78826-07-19 18:00 G	30511865.05	30511865.25	30511865.47	0.0089	0.0024
Venus	78827-03-02 06:44 G	30512090.59	30512090.78	30512090.99	0.0089	0.0033
Venus	78827-10-13 19:56 G	30512316.13	30512316.33	30512316.52	0.0089	0.0041
Venus	78828-05-26 08:24 G	30512541.68	30512541.85	30512542.04	0.0090	0.0050
Venus	78829-01-06 21:22 G	30512767.23	30512767.39	30512767.56	0.0090	0.0058
Venus	78829-08-20 10:05 G	30512992.79	30512992.92	30512993.08	0.0090	0.0067
Venus	78830-04-02 23:03 G	30513218.36	30513218.46	30513218.60	0.0090	0.0075
Venus	78830-11-14 12:00 G	30513443.93	30513444.00	30513444.10	0.0090	0.0083
Earth	78838-10-25 12:44 G	30516345.90	30516346.03	30516346.20	0.0090	0.0072
Moon	78838-10-25 15:51 G	30516346.05	30516346.16	30516346.32	0.0090	0.0076 *
Moon	78839-10-27 21:22 G	30516713.18	30516713.39	30516713.62	0.0090	0.0043
Earth	78839-10-28 00:00 G	30516713.31	30516713.50	30516713.74	0.0090	0.0048 *
Earth	78840-10-29 11:32 G	30517080.74	30517080.98	30517081.23	0.0090	0.0023
Moon	78840-10-29 12:58 G	30517080.81	30517081.04	30517081.31	0.0090	0.0028 *
Moon	78841-10-31 22:34 G	30517448.20	30517448.44	30517448.69	0.0090	0.0006
Earth	78841-10-31 23:03 G	30517448.21	30517448.46	30517448.71	0.0090	0.0002 *
Moon	78842-11-03 09:36 G	30517815.66	30517815.90	30517816.17	0.0090	0.0022
Earth	78842-11-03 09:51 G	30517815.68	30517815.91	30517816.17	0.0090	0.0027 *
Earth	78843-11-05 21:08 G	30518183.19	30518183.38	30518183.61	0.0090	0.0051
Moon	78843-11-05 23:03 G	30518183.29	30518183.46	30518183.67	0.0090	0.0056 *
Moon	78844-11-07 05:46 G	30518550.60	30518550.74	30518550.91	0.0090	0.0071
Earth	78844-11-07 08:24 G	30518550.74	30518550.85	30518551.01	0.0090	0.0076 *
Mercury	78849-05-26 17:46 G	30520212.22	30520212.24	30520212.29	0.0090	0.0088
Mercury	78849-08-22 20:39 G	30520300.28	30520300.36	30520300.45	0.0090	0.0078
Mercury	78849-11-18 23:03 G	30520388.37	30520388.46	30520388.58	0.0090	0.0069

Mercury	78850-02-15 01:41 G	30520476.46	30520476.57	30520476.71	0.0090	0.0059
Mercury	78850-05-14 04:34 G	30520564.55	30520564.69	30520564.83	0.0090	0.0049
Mercury	78850-08-10 06:58 G	30520652.65	30520652.79	30520652.95	0.0090	0.0040
Mercury	78850-11-06 09:51 G	30520740.75	30520740.91	30520741.07	0.0090	0.0030
Mercury	78851-02-02 12:15 G	30520828.85	30520829.01	30520829.18	0.0090	0.0021
Mercury	78851-05-01 14:53 G	30520916.96	30520917.12	30520917.29	0.0090	0.0011
Mercury	78851-07-28 17:32 G	30521005.06	30521005.23	30521005.40	0.0090	0.0002
Mercury	78851-10-24 19:56 G	30521093.17	30521093.33	30521093.50	0.0090	0.0008
Mercury	78852-01-20 22:34 G	30521181.28	30521181.44	30521181.60	0.0090	0.0017
Mercury	78852-04-18 00:58 G	30521269.39	30521269.54	30521269.70	0.0090	0.0026
Mercury	78852-07-15 03:22 G	30521357.50	30521357.64	30521357.80	0.0090	0.0035
Mercury	78852-10-11 05:46 G	30521445.61	30521445.74	30521445.90	0.0090	0.0045
Mercury	78853-01-07 08:24 G	30521533.72	30521533.85	30521533.99	0.0090	0.0054
Mercury	78853-04-05 10:48 G	30521621.84	30521621.95	30521622.08	0.0090	0.0063
Mercury	78853-07-02 13:12 G	30521709.96	30521710.05	30521710.16	0.0090	0.0072
Mercury	78853-09-28 15:36 G	30521798.09	30521798.15	30521798.23	0.0090	0.0081
Mars	78870-08-31 10:34 G	30527978.69	30527978.94	30527979.26	0.0089	0.0048
Venus	78900-01-12 21:51 G	30538705.33	30538705.41	30538705.49	0.0088	0.0082
Venus	78900-08-26 10:48 G	30538930.84	30538930.95	30538931.08	0.0088	0.0074
Venus	78901-04-09 00:00 G	30539156.35	30539156.50	30539156.65	0.0088	0.0065
Venus	78901-11-20 12:58 G	30539381.88	30539382.04	30539382.22	0.0088	0.0057
Venus	78902-07-04 02:10 G	30539607.42	30539607.59	30539607.78	0.0088	0.0049
Venus	78903-02-14 15:22 G	30539832.95	30539833.14	30539833.35	0.0088	0.0041
Venus	78903-09-28 04:20 G	30540058.49	30540058.68	30540058.90	0.0088	0.0033
Venus	78904-05-10 17:32 G	30540284.03	30540284.23	30540284.46	0.0088	0.0025
Venus	78904-12-22 06:58 G	30540509.58	30540509.79	30540510.01	0.0088	0.0016
Venus	78905-08-04 20:10 G	30540735.12	30540735.34	30540735.57	0.0088	0.0008
Venus	78906-03-18 09:22 G	30540960.67	30540960.89	30540961.11	0.0088	0.0000
Venus	78906-10-29 22:20 G	30541186.22	30541186.43	30541186.66	0.0088	0.0009
Venus	78907-06-12 11:32 G	30541411.77	30541411.98	30541412.21	0.0088	0.0017

Venus	78908-01-24 00:58 G	30541637.33	30541637.54	30541637.76	0.0088	0.0025
Venus	78908-09-05 14:10 G	30541862.89	30541863.09	30541863.30	0.0088	0.0033
Venus	78909-04-19 03:22 G	30542088.44	30542088.64	30542088.84	0.0088	0.0041
Venus	78909-11-30 16:05 G	30542314.00	30542314.17	30542314.37	0.0088	0.0050
Venus	78910-07-14 05:17 G	30542539.57	30542539.72	30542539.90	0.0088	0.0058
Venus	78911-02-24 18:29 G	30542765.14	30542765.27	30542765.43	0.0088	0.0066
Venus	78911-10-08 07:41 G	30542990.71	30542990.82	30542990.95	0.0088	0.0074
Venus	78912-05-20 20:39 G	30543216.30	30543216.36	30543216.46	0.0088	0.0082
Earth	78920-04-23 18:58 G	30546111.24	30546111.29	30546111.39	0.0088	0.0084
Moon	78920-04-23 22:05 G	30546111.36	30546111.42	30546111.53	0.0088	0.0083 *
Moon	78921-04-26 05:03 G	30546478.56	30546478.71	30546478.92	0.0088	0.0061
Earth	78921-04-26 07:27 G	30546478.63	30546478.81	30546479.01	0.0088	0.0060 *
Earth	78922-04-28 19:12 G	30546846.08	30546846.30	30546846.56	0.0088	0.0037
Moon	78922-04-28 19:41 G	30546846.09	30546846.32	30546846.58	0.0088	0.0037 *
Earth	78923-05-01 07:41 G	30547213.56	30547213.82	30547214.08	0.0088	0.0013
Moon	78923-05-01 07:56 G	30547213.59	30547213.83	30547214.08	0.0088	0.0014 *
Moon	78924-05-02 17:46 G	30547580.97	30547581.24	30547581.51	0.0088	0.0011
Earth	78924-05-02 19:27 G	30547581.06	30547581.31	30547581.58	0.0088	0.0011 *
Earth	78925-05-05 07:41 G	30547948.58	30547948.82	30547949.06	0.0088	0.0034
Moon	78925-05-05 10:34 G	30547948.70	30547948.94	30547949.18	0.0088	0.0034 *
Moon	78926-05-07 16:05 G	30548315.99	30548316.17	30548316.38	0.0088	0.0059
Earth	78926-05-07 19:12 G	30548316.13	30548316.30	30548316.52	0.0088	0.0058 *
Earth	78927-05-10 07:12 G	30548683.72	30548683.80	30548683.91	0.0088	0.0081
Moon	78927-05-10 11:03 G	30548683.87	30548683.96	30548684.08	0.0088	0.0080 *
Mercury	78931-08-16 08:39 G	30550242.84	30550242.86	30550242.89	0.0088	0.0086
Mercury	78931-11-12 10:05 G	30550330.87	30550330.92	30550331.00	0.0088	0.0079
Mercury	78932-02-08 12:00 G	30550418.92	30550419.00	30550419.09	0.0088	0.0071
Mercury	78932-05-06 13:41 G	30550506.98	30550507.07	30550507.18	0.0088	0.0064
Mercury	78932-08-02 15:22 G	30550595.04	30550595.14	30550595.26	0.0088	0.0056
Mercury	78932-10-29 17:17 G	30550683.10	30550683.22	30550683.35	0.0088	0.0048

Mercury	78933-01-25 18:58 G	30550771.17	30550771.29	30550771.43	0.0088	0.0040
Mercury	78933-04-23 20:39 G	30550859.23	30550859.36	30550859.51	0.0088	0.0033
Mercury	78933-07-20 22:34 G	30550947.30	30550947.44	30550947.59	0.0088	0.0025
Mercury	78933-10-17 00:29 G	30551035.37	30551035.52	30551035.66	0.0088	0.0017
Mercury	78934-01-13 02:10 G	30551123.44	30551123.59	30551123.74	0.0088	0.0009
Mercury	78934-04-11 04:05 G	30551211.52	30551211.67	30551211.81	0.0088	0.0003
Mercury	78934-07-08 05:46 G	30551299.59	30551299.74	30551299.89	0.0088	0.0006
Mercury	78934-10-04 07:27 G	30551387.67	30551387.81	30551387.96	0.0088	0.0015
Mercury	78934-12-31 09:08 G	30551475.75	30551475.88	30551476.04	0.0088	0.0023
Mercury	78935-03-29 11:03 G	30551563.83	30551563.96	30551564.11	0.0088	0.0031
Mercury	78935-06-25 12:44 G	30551651.91	30551652.03	30551652.18	0.0088	0.0039
Mercury	78935-09-21 14:39 G	30551739.99	30551740.11	30551740.25	0.0088	0.0047
Mercury	78935-12-18 16:20 G	30551828.08	30551828.18	30551828.31	0.0088	0.0055
Mercury	78936-03-15 18:15 G	30551916.17	30551916.26	30551916.38	0.0088	0.0063
Mercury	78936-06-11 20:10 G	30552004.26	30552004.34	30552004.44	0.0088	0.0071
Mercury	78936-09-07 22:05 G	30552092.36	30552092.42	30552092.50	0.0088	0.0079
Mercury	78936-12-04 23:46 G	30552180.49	30552180.49	30552180.53	0.0088	0.0087
Mars	78954-06-11 16:05 G	30558577.88	30558578.17	30558578.47	0.0088	0.0005
Venus	78982-10-12 04:05 G	30568927.65	30568927.67	30568927.74	0.0089	0.0088
Venus	78983-05-25 17:03 G	30569153.13	30569153.21	30569153.33	0.0089	0.0079
Venus	78984-01-06 06:15 G	30569378.63	30569378.76	30569378.90	0.0089	0.0071
Venus	78984-08-18 18:58 G	30569604.15	30569604.29	30569604.46	0.0089	0.0062
Venus	78985-04-01 07:41 G	30569829.66	30569829.82	30569830.01	0.0089	0.0054
Venus	78985-11-12 20:53 G	30570055.19	30570055.37	30570055.56	0.0089	0.0046
Venus	78986-06-26 09:36 G	30570280.72	30570280.90	30570281.11	0.0089	0.0038
Venus	78987-02-06 22:48 G	30570506.25	30570506.45	30570506.66	0.0089	0.0029
Venus	78987-09-20 11:32 G	30570731.77	30570731.98	30570732.20	0.0089	0.0020
Venus	78988-05-03 00:15 G	30570957.30	30570957.51	30570957.74	0.0089	0.0013
Venus	78988-12-14 13:12 G	30571182.84	30571183.05	30571183.27	0.0089	0.0004
Venus	78989-07-28 02:10 G	30571408.38	30571408.59	30571408.81	0.0089	0.0005

Venus	78990-03-10 15:08 G	30571633.91	30571634.13	30571634.34	0.0089	0.0013
Venus	78990-10-22 03:36 G	30571859.45	30571859.65	30571859.87	0.0089	0.0023
Venus	78991-06-04 16:34 G	30572084.99	30572085.19	30572085.40	0.0089	0.0031
Venus	78992-01-16 05:32 G	30572310.54	30572310.73	30572310.93	0.0090	0.0039
Venus	78992-08-28 18:15 G	30572536.09	30572536.26	30572536.45	0.0090	0.0048
Venus	78993-04-11 07:12 G	30572761.64	30572761.80	30572761.97	0.0090	0.0056
Venus	78993-11-22 19:41 G	30572987.19	30572987.32	30572987.49	0.0090	0.0065
Venus	78994-07-06 08:39 G	30573212.76	30573212.86	30573213.01	0.0090	0.0073
Venus	78995-02-16 21:51 G	30573438.33	30573438.41	30573438.51	0.0090	0.0081
Venus	78995-09-30 10:34 G	30573663.94	30573663.94	30573663.98	0.0090	0.0089

# 80TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 80th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	79002-10-26 18:58 G	30576246.21	30576246.29	30576246.38	0.0090	0.0084		
Earth	79002-10-26 20:53 G	30576246.27	30576246.37	30576246.49	0.0090	0.0081	*	
Earth	79003-10-29 08:10 G	30576613.66	30576613.84	30576614.05	0.0090	0.0057		
Moon	79003-10-29 09:36 G	30576613.71	30576613.90	30576614.12	0.0090	0.0055	*	
Earth	79004-10-30 19:27 G	30576981.09	30576981.31	30576981.56	0.0090	0.0033		
Moon	79004-10-30 19:41 G	30576981.10	30576981.32	30576981.55	0.0090	0.0035	*	
Moon	79005-11-02 05:32 G	30577348.47	30577348.73	30577348.99	0.0090	0.0005		
Earth	79005-11-02 06:58 G	30577348.54	30577348.79	30577349.05	0.0090	0.0008	*	

Earth	79006-11-04 18:00 G	30577716.01	30577716.25	30577716.51	0.0090	0.0017
Moon	79006-11-04 20:10 G	30577716.10	30577716.34	30577716.59	0.0090	0.0015 *
Moon	79007-11-07 02:24 G	30578083.38	30578083.60	30578083.83	0.0090	0.0043
Earth	79007-11-07 05:17 G	30578083.51	30578083.72	30578083.97	0.0090	0.0041 *
Earth	79008-11-08 16:48 G	30578451.03	30578451.20	30578451.38	0.0090	0.0065
Moon	79008-11-08 19:56 G	30578451.17	30578451.33	30578451.53	0.0090	0.0063 *
Earth	79009-11-11 04:20 G	30578818.66	30578818.68	30578818.70	0.0090	0.0089
Mercury	79014-02-22 16:34 G	30580383.14	30580383.19	30580383.26	0.0090	0.0083
Mercury	79014-05-21 18:58 G	30580471.21	30580471.29	30580471.41	0.0090	0.0074
Mercury	79014-08-17 21:51 G	30580559.30	30580559.41	30580559.54	0.0090	0.0064
Mercury	79014-11-14 00:44 G	30580647.39	30580647.53	30580647.66	0.0090	0.0054
Mercury	79015-02-10 03:08 G	30580735.49	30580735.63	30580735.78	0.0090	0.0045
Mercury	79015-05-09 05:46 G	30580823.59	30580823.74	30580823.90	0.0090	0.0035
Mercury	79015-08-05 08:24 G	30580911.69	30580911.85	30580912.02	0.0090	0.0026
Mercury	79015-11-01 11:03 G	30580999.80	30580999.96	30581000.13	0.0090	0.0016
Mercury	79016-01-28 13:41 G	30581087.90	30581088.07	30581088.24	0.0090	0.0007
Mercury	79016-04-25 16:20 G	30581176.01	30581176.18	30581176.34	0.0090	0.0003
Mercury	79016-07-22 18:44 G	30581264.12	30581264.28	30581264.45	0.0090	0.0012
Mercury	79016-10-18 21:08 G	30581352.23	30581352.38	30581352.55	0.0090	0.0022
Mercury	79017-01-14 23:46 G	30581440.34	30581440.49	30581440.65	0.0090	0.0031
Mercury	79017-04-13 02:10 G	30581528.45	30581528.59	30581528.75	0.0090	0.0040
Mercury	79017-07-10 04:48 G	30581616.56	30581616.70	30581616.84	0.0090	0.0049
Mercury	79017-10-06 06:58 G	30581704.68	30581704.79	30581704.93	0.0090	0.0059
Mercury	79018-01-02 09:22 G	30581792.80	30581792.89	30581793.01	0.0090	0.0068
Mercury	79018-03-31 11:46 G	30581880.93	30581880.99	30581881.09	0.0090	0.0077
Mercury	79018-06-27 14:10 G	30581969.06	30581969.09	30581969.16	0.0090	0.0086
Mars	79036-03-12 00:00 G	30588436.25	30588436.50	30588436.82	0.0089	0.0046
Venus	79064-04-17 06:29 G	30598699.73	30598699.77	30598699.85	0.0088	0.0084
Venus	79064-11-28 19:41 G	30598925.23	30598925.32	30598925.45	0.0088	0.0076
Venus	79065-07-12 08:53 G	30599150.75	30599150.87	30599151.03	0.0088	0.0068



Venus	79066-02-22 22:05 G	30599376.28	30599376.42	30599376.60	0.0088	0.0060
Venus	79066-10-06 11:32 G	30599601.81	30599601.98	30599602.17	0.0088	0.0051
Venus	79067-05-20 00:44 G	30599827.34	30599827.53	30599827.73	0.0088	0.0043
Venus	79067-12-31 13:56 G	30600052.88	30600053.08	30600053.29	0.0088	0.0035
Venus	79068-08-13 02:53 G	30600278.42	30600278.62	30600278.85	0.0088	0.0027
Venus	79069-03-26 16:20 G	30600503.96	30600504.18	30600504.40	0.0088	0.0018
Venus	79069-11-07 05:32 G	30600729.51	30600729.73	30600729.95	0.0088	0.0010
Venus	79070-06-20 18:29 G	30600955.05	30600955.27	30600955.50	0.0088	0.0003
Venus	79071-02-01 07:41 G	30601180.61	30601180.82	30601181.05	0.0088	0.0007
Venus	79071-09-14 20:53 G	30601406.16	30601406.37	30601406.60	0.0088	0.0015
Venus	79072-04-27 10:05 G	30601631.71	30601631.92	30601632.14	0.0088	0.0023
Venus	79072-12-08 23:17 G	30601857.26	30601857.47	30601857.68	0.0088	0.0031
Venus	79073-07-22 12:00 G	30602082.82	30602083.00	30602083.22	0.0088	0.0040
Venus	79074-03-05 01:27 G	30602308.39	30602308.56	30602308.76	0.0088	0.0048
Venus	79074-10-16 14:39 G	30602533.95	30602534.11	30602534.29	0.0088	0.0056
Venus	79075-05-30 03:51 G	30602759.52	30602759.66	30602759.82	0.0088	0.0064
Venus	79076-01-10 17:03 G	30602985.10	30602985.21	30602985.35	0.0088	0.0072
Venus	79076-08-23 06:15 G	30603210.68	30603210.76	30603210.86	0.0088	0.0080
Earth	79085-04-26 14:24 G	30606378.95	30606379.10	30606379.26	0.0088	0.0069
Moon	79085-04-26 14:10 G	30606378.97	30606379.09	30606379.26	0.0088	0.0074 *
Earth	79086-04-29 02:10 G	30606746.38	30606746.59	30606746.83	0.0088	0.0046
Moon	79086-04-29 03:36 G	30606746.44	30606746.65	30606746.89	0.0088	0.0042 *
Moon	79087-05-01 12:00 G	30607113.75	30607114.00	30607114.26	0.0088	0.0027
Earth	79087-05-01 14:10 G	30607113.85	30607114.09	30607114.35	0.0088	0.0023 *
Earth	79088-05-03 02:24 G	30607481.34	30607481.60	30607481.86	0.0088	0.0001
Moon	79088-05-03 05:32 G	30607481.47	30607481.73	30607481.99	0.0088	0.0006 *
Moon	79089-05-05 10:48 G	30607848.70	30607848.95	30607849.21	0.0088	0.0020
Earth	79089-05-05 14:24 G	30607848.86	30607849.10	30607849.36	0.0088	0.0025 *
Earth	79090-05-08 02:10 G	30608216.38	30608216.59	30608216.82	0.0088	0.0048
Moon	79090-05-08 05:32 G	30608216.54	30608216.73	30608216.96	0.0088	0.0053 *

Moon	79091-05-10 10:34 G	30608583.80	30608583.94	30608584.13	0.0088	0.0067
Earth	79091-05-10 13:56 G	30608583.95	30608584.08	30608584.25	0.0088	0.0072 *
Mercury	79096-05-13 07:27 G	30610413.78	30610413.81	30610413.87	0.0088	0.0083
Mercury	79096-08-09 09:22 G	30610501.82	30610501.89	30610501.97	0.0088	0.0075
Mercury	79096-11-05 11:03 G	30610589.87	30610589.96	30610590.06	0.0088	0.0068
Mercury	79097-02-01 12:44 G	30610677.93	30610678.03	30610678.14	0.0088	0.0060
Mercury	79097-04-30 14:24 G	30610765.99	30610766.10	30610766.23	0.0088	0.0053
Mercury	79097-07-27 16:05 G	30610854.05	30610854.17	30610854.31	0.0088	0.0045
Mercury	79097-10-23 18:00 G	30610942.12	30610942.25	30610942.39	0.0088	0.0037
Mercury	79098-01-19 19:41 G	30611030.19	30611030.32	30611030.47	0.0088	0.0029
Mercury	79098-04-17 21:22 G	30611118.26	30611118.39	30611118.54	0.0088	0.0022
Mercury	79098-07-14 23:17 G	30611206.33	30611206.47	30611206.62	0.0088	0.0014
Mercury	79098-10-11 00:58 G	30611294.40	30611294.54	30611294.69	0.0088	0.0007
Mercury	79099-01-07 02:53 G	30611382.47	30611382.62	30611382.77	0.0088	0.0002
Mercury	79099-04-05 04:34 G	30611470.55	30611470.69	30611470.84	0.0088	0.0010
Mercury	79099-07-02 06:29 G	30611558.62	30611558.77	30611558.92	0.0088	0.0018
Mercury	79099-09-28 08:10 G	30611646.70	30611646.84	30611646.99	0.0088	0.0026
Mercury	79099-12-25 09:51 G	30611734.78	30611734.91	30611735.06	0.0088	0.0034
Mercury	79100-03-23 11:46 G	30611822.86	30611822.99	30611823.13	0.0088	0.0042
Mercury	79100-06-19 13:27 G	30611910.95	30611911.06	30611911.20	0.0088	0.0050
Mercury	79100-09-15 15:22 G	30611999.04	30611999.14	30611999.26	0.0088	0.0058
Mercury	79100-12-12 17:17 G	30612087.13	30612087.22	30612087.33	0.0088	0.0066
Mercury	79101-03-10 18:58 G	30612175.22	30612175.29	30612175.38	0.0088	0.0074
Mercury	79101-06-06 20:53 G	30612263.33	30612263.37	30612263.44	0.0088	0.0082
Mars	79118-01-26 22:34 G	30618341.26	30618341.44	30618341.68	0.0088	0.0061
Mars	79119-12-21 17:46 G	30619035.10	30619035.24	30619035.44	0.0088	0.0072
Venus	79147-08-29 02:10 G	30629147.54	30629147.59	30629147.70	0.0089	0.0083
Venus	79148-04-10 15:22 G	30629373.03	30629373.14	30629373.27	0.0089	0.0074
Venus	79148-11-22 04:05 G	30629598.54	30629598.67	30629598.83	0.0089	0.0066
Venus	79149-07-05 17:03 G	30629824.06	30629824.21	30629824.40	0.0089	0.0057

Venus	79150-02-16 06:15 G	30630049.58	30630049.76	30630049.95	0.0089	0.0048
Venus	79150-09-29 18:44 G	30630275.11	30630275.28	30630275.49	0.0089	0.0041
Venus	79151-05-13 07:56 G	30630500.63	30630500.83	30630501.04	0.0089	0.0032
Venus	79151-12-24 20:39 G	30630726.16	30630726.36	30630726.58	0.0089	0.0024
Venus	79152-08-06 09:51 G	30630951.70	30630951.91	30630952.13	0.0089	0.0015
Venus	79153-03-19 22:48 G	30631177.23	30631177.45	30631177.67	0.0089	0.0006
Venus	79153-10-31 11:32 G	30631402.77	30631402.98	30631403.20	0.0089	0.0003
Venus	79154-06-14 00:29 G	30631628.31	30631628.52	30631628.74	0.0089	0.0011
Venus	79155-01-25 13:27 G	30631853.85	30631854.06	30631854.27	0.0089	0.0020
Venus	79155-09-08 02:10 G	30632079.39	30632079.59	30632079.80	0.0089	0.0028
Venus	79156-04-20 14:53 G	30632304.93	30632305.12	30632305.33	0.0089	0.0037
Venus	79156-12-02 03:36 G	30632530.48	30632530.65	30632530.85	0.0090	0.0046
Venus	79157-07-15 16:48 G	30632756.03	30632756.20	30632756.38	0.0090	0.0054
Venus	79158-02-26 05:46 G	30632981.59	30632981.74	30632981.90	0.0090	0.0062
Venus	79158-10-09 18:15 G	30633207.15	30633207.26	30633207.41	0.0090	0.0071
Venus	79159-05-23 07:12 G	30633432.71	30633432.80	30633432.91	0.0090	0.0079
Venus	79160-01-03 20:24 G	30633658.30	30633658.35	30633658.39	0.0090	0.0087
Moon	79166-10-27 04:05 G	30636146.64	30636146.67	30636146.74	0.0090	0.0088
Earth	79167-10-29 15:22 G	30636513.98	30636514.14	30636514.32	0.0090	0.0067
Moon	79167-10-29 15:36 G	30636514.02	30636514.15	30636514.32	0.0090	0.0071 *
Moon	79168-10-31 00:58 G	30636881.31	30636881.54	30636881.79	0.0090	0.0039
Earth	79168-10-31 02:39 G	30636881.40	30636881.61	30636881.84	0.0090	0.0043 *
Earth	79169-11-02 13:56 G	30637248.84	30637249.08	30637249.34	0.0090	0.0019
Moon	79169-11-02 17:03 G	30637248.97	30637249.21	30637249.45	0.0090	0.0022 *
Moon	79170-11-04 22:05 G	30637616.18	30637616.42	30637616.69	0.0090	0.0010
Earth	79170-11-05 01:27 G	30637616.31	30637616.56	30637616.82	0.0090	0.0006 *
Earth	79171-11-07 12:44 G	30637983.79	30637984.03	30637984.27	0.0090	0.0030
Moon	79171-11-07 16:05 G	30637983.94	30637984.17	30637984.43	0.0090	0.0026 *
Moon	79172-11-08 20:39 G	30638351.18	30638351.36	30638351.56	0.0090	0.0058
Earth	79172-11-08 23:32 G	30638351.30	30638351.48	30638351.71	0.0090	0.0055 *

Earth	79173-11-11 10:34 G	30638718.85	30638718.94	30638719.09	0.0090	0.0079
Moon	79173-11-11 13:12 G	30638718.94	30638719.05	30638719.23	0.0090	0.0075 *
Mercury	79178-08-24 12:15 G	30640466.00	30640466.01	30640466.03	0.0090	0.0089
Mercury	79178-11-20 14:39 G	30640554.05	30640554.11	30640554.20	0.0090	0.0080
Mercury	79179-02-16 17:17 G	30640642.13	30640642.22	30640642.34	0.0090	0.0070
Mercury	79179-05-15 20:10 G	30640730.22	30640730.34	30640730.47	0.0090	0.0060
Mercury	79179-08-11 22:48 G	30640818.32	30640818.45	30640818.60	0.0090	0.0050
Mercury	79179-11-08 01:27 G	30640906.42	30640906.56	30640906.72	0.0090	0.0041
Mercury	79180-02-04 04:05 G	30640994.52	30640994.67	30640994.84	0.0090	0.0031
Mercury	79180-05-02 06:44 G	30641082.62	30641082.78	30641082.95	0.0090	0.0022
Mercury	79180-07-29 09:22 G	30641170.73	30641170.89	30641171.06	0.0090	0.0012
Mercury	79180-10-25 12:00 G	30641258.84	30641259.00	30641259.17	0.0090	0.0003
Mercury	79181-01-21 14:39 G	30641346.94	30641347.11	30641347.28	0.0090	0.0007
Mercury	79181-04-19 17:17 G	30641435.05	30641435.22	30641435.38	0.0090	0.0016
Mercury	79181-07-16 19:41 G	30641523.16	30641523.32	30641523.48	0.0090	0.0025
Mercury	79181-10-12 22:05 G	30641611.28	30641611.42	30641611.58	0.0090	0.0035
Mercury	79182-01-09 00:44 G	30641699.39	30641699.53	30641699.68	0.0090	0.0044
Mercury	79182-04-07 03:22 G	30641787.50	30641787.64	30641787.77	0.0090	0.0053
Mercury	79182-07-04 05:17 G	30641875.62	30641875.72	30641875.86	0.0090	0.0063
Mercury	79182-09-30 07:56 G	30641963.75	30641963.83	30641963.94	0.0090	0.0072
Mercury	79182-12-27 10:20 G	30642051.88	30642051.93	30642052.02	0.0090	0.0081
Mercury	79183-03-25 12:58 G	30642140.04	30642140.04	30642140.06	0.0090	0.0089
Mars	79199-10-25 11:17 G	30648197.66	30648197.97	30648198.31	0.0089	0.0022
Venus	79228-07-20 16:05 G	30658694.13	30658694.17	30658694.21	0.0088	0.0087
Venus	79229-03-03 05:03 G	30658919.62	30658919.71	30658919.82	0.0088	0.0078
Venus	79229-10-14 18:15 G	30659145.14	30659145.26	30659145.40	0.0088	0.0070
Venus	79230-05-28 07:27 G	30659370.66	30659370.81	30659370.98	0.0088	0.0062
Venus	79231-01-08 20:39 G	30659596.20	30659596.36	30659596.55	0.0088	0.0054
Venus	79231-08-22 09:51 G	30659821.74	30659821.91	30659822.12	0.0088	0.0046
Venus	79232-04-03 23:17 G	30660047.27	30660047.47	30660047.67	0.0088	0.0037

Venus	79232-11-15 12:15 G	30660272.81	30660273.01	30660273.23	0.0088	0.0029
Venus	79233-06-29 01:27 G	30660498.35	30660498.56	30660498.78	0.0088	0.0021
Venus	79234-02-09 14:53 G	30660723.90	30660724.12	30660724.34	0.0088	0.0012
Venus	79234-09-23 03:51 G	30660949.44	30660949.66	30660949.89	0.0088	0.0004
Venus	79235-05-06 17:03 G	30661174.99	30661175.21	30661175.43	0.0088	0.0004
Venus	79235-12-18 06:00 G	30661400.54	30661400.75	30661400.98	0.0088	0.0013
Venus	79236-07-30 19:12 G	30661626.09	30661626.30	30661626.52	0.0088	0.0021
Venus	79237-03-13 08:24 G	30661851.64	30661851.85	30661852.06	0.0088	0.0029
Venus	79237-10-24 21:08 G	30662077.19	30662077.38	30662077.60	0.0088	0.0038
Venus	79238-06-07 10:20 G	30662302.75	30662302.93	30662303.13	0.0088	0.0046
Venus	79239-01-18 23:32 G	30662528.32	30662528.48	30662528.67	0.0088	0.0054
Venus	79239-09-01 12:44 G	30662753.89	30662754.03	30662754.20	0.0088	0.0062
Venus	79240-04-14 02:10 G	30662979.46	30662979.59	30662979.72	0.0088	0.0070
Venus	79240-11-25 14:39 G	30663205.04	30663205.11	30663205.23	0.0088	0.0079
Venus	79241-07-09 03:51 G	30663430.65	30663430.66	30663430.72	0.0088	0.0087
Earth	79249-04-26 19:56 G	30666279.25	30666279.33	30666279.48	0.0088	0.0079
Moon	79249-04-26 21:51 G	30666279.33	30666279.41	30666279.53	0.0088	0.0080 *
Moon	79250-04-29 04:34 G	30666646.51	30666646.69	30666646.93	0.0088	0.0054
Earth	79250-04-29 07:56 G	30666646.65	30666646.83	30666647.05	0.0088	0.0056 *
Earth	79251-05-01 20:10 G	30667014.10	30667014.34	30667014.59	0.0088	0.0032
Moon	79251-05-01 23:03 G	30667014.24	30667014.46	30667014.72	0.0088	0.0034 *
Moon	79252-05-03 04:34 G	30667381.43	30667381.69	30667381.95	0.0088	0.0008
Earth	79252-05-03 08:10 G	30667381.59	30667381.84	30667382.11	0.0088	0.0009 *
Earth	79253-05-05 20:10 G	30667749.09	30667749.34	30667749.60	0.0088	0.0015
Moon	79253-05-05 23:32 G	30667749.23	30667749.48	30667749.75	0.0088	0.0014 *
Moon	79254-05-08 05:32 G	30668116.51	30668116.73	30668116.97	0.0088	0.0039
Earth	79254-05-08 07:56 G	30668116.62	30668116.83	30668117.09	0.0088	0.0039 *
Earth	79255-05-10 19:56 G	30668484.16	30668484.33	30668484.53	0.0088	0.0062
Moon	79255-05-10 21:51 G	30668484.25	30668484.41	30668484.63	0.0088	0.0062 *
Moon	79256-05-12 07:41 G	30668851.79	30668851.82	30668851.89	0.0088	0.0086

Earth	79256-05-12 07:56 G	30668851.79	30668851.83	30668851.92	0.0088	0.0085 *
Mercury	79260-11-12 04:48 G	30670496.70	30670496.70	30670496.73	0.0088	0.0087
Mercury	79261-02-08 06:29 G	30670584.72	30670584.77	30670584.84	0.0088	0.0080
Mercury	79261-05-07 08:24 G	30670672.77	30670672.85	30670672.94	0.0088	0.0072
Mercury	79261-08-03 09:51 G	30670760.83	30670760.91	30670761.02	0.0088	0.0065
Mercury	79261-10-30 11:46 G	30670848.88	30670848.99	30670849.11	0.0088	0.0057
Mercury	79262-01-26 13:27 G	30670936.95	30670937.06	30670937.19	0.0088	0.0049
Mercury	79262-04-24 15:08 G	30671025.01	30671025.13	30671025.27	0.0088	0.0042
Mercury	79262-07-21 17:03 G	30671113.07	30671113.21	30671113.35	0.0088	0.0034
Mercury	79262-10-17 18:44 G	30671201.14	30671201.28	30671201.42	0.0088	0.0026
Mercury	79263-01-13 20:24 G	30671289.21	30671289.35	30671289.50	0.0088	0.0018
Mercury	79263-04-11 22:20 G	30671377.28	30671377.43	30671377.57	0.0088	0.0011
Mercury	79263-07-09 00:00 G	30671465.35	30671465.50	30671465.65	0.0088	0.0003
Mercury	79263-10-05 01:41 G	30671553.43	30671553.57	30671553.72	0.0088	0.0006
Mercury	79264-01-01 03:36 G	30671641.50	30671641.65	30671641.80	0.0088	0.0013
Mercury	79264-03-29 05:17 G	30671729.58	30671729.72	30671729.87	0.0088	0.0021
Mercury	79264-06-25 06:58 G	30671817.66	30671817.79	30671817.94	0.0088	0.0029
Mercury	79264-09-21 08:53 G	30671905.74	30671905.87	30671906.01	0.0088	0.0037
Mercury	79264-12-18 10:34 G	30671993.82	30671993.94	30671994.08	0.0088	0.0045
Mercury	79265-03-16 12:29 G	30672081.91	30672082.02	30672082.15	0.0088	0.0053
Mercury	79265-06-12 14:10 G	30672169.99	30672170.09	30672170.21	0.0088	0.0061
Mercury	79265-09-08 16:05 G	30672258.09	30672258.17	30672258.27	0.0088	0.0069
Mercury	79265-12-05 18:00 G	30672346.19	30672346.25	30672346.33	0.0088	0.0077
Mercury	79266-03-03 19:41 G	30672434.30	30672434.32	30672434.37	0.0088	0.0085
Mars	79283-08-06 00:15 G	30678798.23	30678798.51	30678798.81	0.0088	0.0015
Venus	79311-12-01 11:03 G	30689141.92	30689141.96	30689142.05	0.0089	0.0086
Venus	79312-07-14 00:29 G	30689367.42	30689367.52	30689367.64	0.0089	0.0077
Venus	79313-02-24 12:58 G	30689592.92	30689593.04	30689593.20	0.0089	0.0069
Venus	79313-10-08 01:41 G	30689818.43	30689818.57	30689818.75	0.0089	0.0061
Venus	79314-05-21 14:53 G	30690043.95	30690044.12	30690044.30	0.0089	0.0052

Venus	79315-01-02 03:22 G	30690269.47	30690269.64	30690269.85	0.0089	0.0044
Venus	79315-08-15 16:34 G	30690495.00	30690495.19	30690495.40	0.0089	0.0035
Venus	79316-03-28 05:17 G	30690720.52	30690720.72	30690720.94	0.0089	0.0026
Venus	79316-11-08 18:15 G	30690946.05	30690946.26	30690946.48	0.0089	0.0018
Venus	79317-06-22 07:12 G	30691171.59	30691171.80	30691172.03	0.0089	0.0010
Jupiter	79318-01-22 04:20 G	30691385.33	30691385.68	30691386.14	0.0089	0.0061
Venus	79318-02-02 20:24 G	30691397.13	30691397.35	30691397.56	0.0089	0.0001
Venus	79318-09-16 09:08 G	30691622.67	30691622.88	30691623.10	0.0089	0.0008
Venus	79319-04-29 22:05 G	30691848.21	30691848.42	30691848.63	0.0089	0.0017
Venus	79319-12-11 10:48 G	30692073.75	30692073.95	30692074.16	0.0089	0.0025
Venus	79320-07-24 00:00 G	30692299.30	30692299.50	30692299.70	0.0089	0.0034
Venus	79321-03-06 12:29 G	30692524.85	30692525.02	30692525.23	0.0089	0.0043
Venus	79321-10-18 01:41 G	30692750.39	30692750.57	30692750.75	0.0090	0.0051
Venus	79322-05-31 14:10 G	30692975.94	30692976.09	30692976.27	0.0090	0.0060
Venus	79323-01-12 03:22 G	30693201.50	30693201.64	30693201.78	0.0090	0.0068
Venus	79323-08-25 15:51 G	30693427.07	30693427.16	30693427.29	0.0090	0.0077
Venus	79324-04-07 04:48 G	30693652.65	30693652.70	30693652.78	0.0090	0.0085
Moon	79331-10-29 19:12 G	30696414.20	30696414.30	30696414.42	0.0090	0.0081
Earth	79331-10-29 21:08 G	30696414.28	30696414.38	30696414.54	0.0090	0.0078 *
Earth	79332-10-31 08:39 G	30696781.68	30696781.86	30696782.09	0.0090	0.0054
Moon	79332-10-31 12:00 G	30696781.80	30696782.00	30696782.22	0.0090	0.0050 *
Moon	79333-11-02 17:03 G	30697148.98	30697149.21	30697149.45	0.0090	0.0033
Earth	79333-11-02 20:39 G	30697149.13	30697149.36	30697149.61	0.0090	0.0029 *
Earth	79334-11-05 07:56 G	30697516.58	30697516.83	30697517.09	0.0090	0.0005
Moon	79334-11-05 11:32 G	30697516.72	30697516.98	30697517.23	0.0090	0.0002 *
Moon	79335-11-07 16:05 G	30697883.93	30697884.17	30697884.42	0.0090	0.0017
Earth	79335-11-07 19:12 G	30697884.06	30697884.30	30697884.56	0.0090	0.0020 *
Earth	79336-11-09 06:15 G	30698251.55	30698251.76	30698252.00	0.0090	0.0044
Moon	79336-11-09 08:39 G	30698251.64	30698251.86	30698252.08	0.0090	0.0047 *
Moon	79337-11-11 16:34 G	30698619.04	30698619.19	30698619.37	0.0090	0.0065

Earth	79337-11-11 17:32 G	30698619.08	30698619.23	30698619.41	0.0090	0.0068	*
Mercury	79343-05-22 10:20 G	30700636.89	30700636.93	30700636.98	0.0090	0.0086	
Mercury	79343-08-18 12:44 G	30700724.96	30700725.03	30700725.13	0.0090	0.0077	
Mercury	79343-11-14 15:22 G	30700813.04	30700813.14	30700813.27	0.0090	0.0067	
Mercury	79344-02-10 18:15 G	30700901.14	30700901.26	30700901.40	0.0090	0.0057	
Mercury	79344-05-08 20:53 G	30700989.24	30700989.37	30700989.52	0.0090	0.0047	
Mercury	79344-08-04 23:32 G	30701077.34	30701077.48	30701077.64	0.0090	0.0038	
Mercury	79344-11-01 02:24 G	30701165.44	30701165.60	30701165.76	0.0090	0.0028	
Mercury	79345-01-28 04:48 G	30701253.54	30701253.70	30701253.87	0.0090	0.0019	
Mercury	79345-04-26 07:41 G	30701341.65	30701341.82	30701341.99	0.0090	0.0009	
Mercury	79345-07-23 10:20 G	30701429.76	30701429.93	30701430.09	0.0090	0.0002	
Mercury	79345-10-19 12:44 G	30701517.87	30701518.03	30701518.20	0.0090	0.0010	
Mercury	79346-01-15 15:22 G	30701605.98	30701606.14	30701606.31	0.0090	0.0019	
Mercury	79346-04-13 17:46 G	30701694.09	30701694.24	30701694.41	0.0090	0.0029	
Mercury	79346-07-10 20:24 G	30701782.20	30701782.35	30701782.50	0.0090	0.0038	
Mercury	79346-10-06 23:03 G	30701870.32	30701870.46	30701870.60	0.0090	0.0047	
Mercury	79347-01-03 01:12 G	30701958.44	30701958.55	30701958.69	0.0090	0.0057	
Mercury	79347-04-01 03:51 G	30702046.56	30702046.66	30702046.78	0.0090	0.0066	
Mercury	79347-06-28 06:15 G	30702134.68	30702134.76	30702134.86	0.0090	0.0075	
Mercury	79347-09-24 08:39 G	30702222.82	30702222.86	30702222.93	0.0090	0.0084	
Mars	79365-05-04 21:08 G	30708655.18	30708655.38	30708655.62	0.0089	0.0068	
Venus	79393-06-05 13:27 G	30718913.99	30718914.06	30718914.16	0.0088	0.0081	
Venus	79394-01-17 02:39 G	30719139.51	30719139.61	30719139.75	0.0088	0.0073	
Venus	79394-08-30 15:51 G	30719365.03	30719365.16	30719365.33	0.0088	0.0065	
Venus	79395-04-13 05:32 G	30719590.56	30719590.73	30719590.90	0.0088	0.0056	
Venus	79395-11-24 18:29 G	30719816.09	30719816.27	30719816.47	0.0088	0.0048	
Venus	79396-07-07 07:41 G	30720041.63	30720041.82	30720042.03	0.0088	0.0040	
Venus	79397-02-17 20:53 G	30720267.18	30720267.37	30720267.59	0.0088	0.0032	
Venus	79397-10-01 10:20 G	30720492.72	30720492.93	30720493.15	0.0088	0.0023	
Venus	79398-05-14 23:17 G	30720718.26	30720718.47	30720718.70	0.0088	0.0015	



Venus	79398-12-26 12:44 G	30720943.81	30720944.03	30720944.25	0.0088	0.0006
Venus	79399-08-09 01:56 G	30721169.36	30721169.58	30721169.80	0.0088	0.0002
Venus	79400-03-22 14:53 G	30721394.90	30721395.12	30721395.35	0.0088	0.0011
Venus	79400-11-03 03:51 G	30721620.45	30721620.66	30721620.89	0.0088	0.0019
Venus	79401-06-16 17:03 G	30721846.00	30721846.21	30721846.43	0.0088	0.0027
Venus	79402-01-28 06:29 G	30722071.57	30722071.77	30722071.97	0.0088	0.0035
Venus	79402-09-10 19:12 G	30722297.12	30722297.30	30722297.51	0.0088	0.0044
Venus	79403-04-24 08:24 G	30722522.68	30722522.85	30722523.04	0.0088	0.0052
Venus	79403-12-05 21:36 G	30722748.24	30722748.40	30722748.57	0.0088	0.0060
Venus	79404-07-18 10:48 G	30722973.82	30722973.95	30722974.09	0.0088	0.0068
Venus	79405-02-28 23:32 G	30723199.40	30723199.48	30723199.61	0.0088	0.0077
Venus	79405-10-12 12:44 G	30723425.00	30723425.03	30723425.11	0.0088	0.0085
Moon	79413-04-27 23:32 G	30726179.41	30726179.48	30726179.57	0.0088	0.0083
Earth	79413-04-28 02:39 G	30726179.61	30726179.61	30726179.63	0.0088	0.0087
Earth	79414-04-30 13:56 G	30726546.93	30726547.08	30726547.28	0.0088	0.0065
Moon	79414-04-30 18:00 G	30726547.10	30726547.25	30726547.42	0.0088	0.0069 *
Moon	79415-05-02 22:34 G	30726914.22	30726914.44	30726914.69	0.0088	0.0038
Earth	79415-05-03 01:56 G	30726914.37	30726914.58	30726914.83	0.0088	0.0042 *
Earth	79416-05-04 13:56 G	30727281.83	30727282.08	30727282.34	0.0088	0.0018
Moon	79416-05-04 17:17 G	30727281.97	30727282.22	30727282.48	0.0088	0.0023 *
Moon	79417-05-06 23:46 G	30727649.24	30727649.49	30727649.75	0.0088	0.0010
Earth	79417-05-07 01:56 G	30727649.32	30727649.58	30727649.85	0.0088	0.0005 *
Earth	79418-05-09 13:27 G	30728016.83	30728017.06	30728017.32	0.0088	0.0029
Moon	79418-05-09 14:24 G	30728016.85	30728017.10	30728017.38	0.0088	0.0025 *
Earth	79419-05-12 01:27 G	30728384.37	30728384.56	30728384.79	0.0088	0.0052
Moon	79419-05-12 01:27 G	30728384.38	30728384.56	30728384.76	0.0088	0.0056 *
Moon	79420-05-13 12:15 G	30728751.86	30728752.01	30728752.18	0.0088	0.0070
Earth	79420-05-13 13:27 G	30728751.95	30728752.06	30728752.22	0.0088	0.0075 *
Mercury	79425-08-11 03:51 G	30730667.63	30730667.66	30730667.71	0.0088	0.0084
Mercury	79425-11-07 05:17 G	30730755.67	30730755.72	30730755.81	0.0088	0.0077

Mercury	79426-02-03 07:12 G	30730843.72	30730843.80	30730843.90	0.0088	0.0069
Mercury	79426-05-02 08:39 G	30730931.77	30730931.86	30730931.98	0.0088	0.0062
Mercury	79426-07-29 10:34 G	30731019.83	30731019.94	30731020.06	0.0088	0.0054
Mercury	79426-10-25 12:29 G	30731107.89	30731108.02	30731108.14	0.0088	0.0046
Mercury	79427-01-21 13:56 G	30731195.96	30731196.08	30731196.22	0.0088	0.0039
Mercury	79427-04-19 15:51 G	30731284.02	30731284.16	30731284.30	0.0088	0.0031
Mercury	79427-07-16 17:32 G	30731372.09	30731372.23	30731372.37	0.0088	0.0023
Mercury	79427-10-12 19:12 G	30731460.16	30731460.30	30731460.45	0.0088	0.0016
Mercury	79428-01-08 21:08 G	30731548.23	30731548.38	30731548.53	0.0088	0.0008
Mercury	79428-04-05 22:48 G	30731636.30	30731636.45	30731636.60	0.0088	0.0000
Mercury	79428-07-03 00:29 G	30731724.37	30731724.52	30731724.67	0.0088	0.0008
Mercury	79428-09-29 02:10 G	30731812.45	30731812.59	30731812.74	0.0088	0.0016
Mercury	79428-12-26 04:05 G	30731900.53	30731900.67	30731900.82	0.0088	0.0024
Mercury	79429-03-24 05:46 G	30731988.61	30731988.74	30731988.89	0.0088	0.0032
Mercury	79429-06-20 07:27 G	30732076.69	30732076.81	30732076.95	0.0088	0.0040
Mercury	79429-09-16 09:08 G	30732164.77	30732164.88	30732165.02	0.0088	0.0048
Mercury	79429-12-13 11:03 G	30732252.86	30732252.96	30732253.09	0.0088	0.0056
Mercury	79430-03-11 12:44 G	30732340.95	30732341.03	30732341.15	0.0088	0.0064
Mercury	79430-06-07 14:39 G	30732429.04	30732429.11	30732429.21	0.0088	0.0072
Mercury	79430-09-03 16:20 G	30732517.14	30732517.18	30732517.26	0.0088	0.0080
Mercury	79430-11-30 18:29 G	30732605.27	30732605.27	30732605.29	0.0088	0.0087
Mars	79447-03-23 05:46 G	30738561.50	30738561.74	30738562.02	0.0088	0.0043
Venus	79476-03-04 19:56 G	30749136.33	30749136.33	30749136.38	0.0089	0.0089
Venus	79476-10-16 08:39 G	30749361.79	30749361.86	30749361.98	0.0089	0.0081
Venus	79477-05-29 21:51 G	30749587.29	30749587.41	30749587.55	0.0089	0.0072
Venus	79478-01-10 10:34 G	30749812.80	30749812.94	30749813.11	0.0089	0.0063
Venus	79478-08-23 23:32 G	30750038.32	30750038.48	30750038.66	0.0089	0.0055
Venus	79479-04-06 12:00 G	30750263.83	30750264.00	30750264.21	0.0089	0.0047
Venus	79479-11-18 01:12 G	30750489.36	30750489.55	30750489.75	0.0089	0.0038
Venus	79480-06-30 13:56 G	30750714.89	30750715.08	30750715.30	0.0089	0.0029

Venus	79481-02-11 02:53 G	30750940.42	30750940.62	30750940.84	0.0089	0.0021
Venus	79481-09-24 15:36 G	30751165.95	30751166.15	30751166.38	0.0089	0.0013
Venus	79482-05-08 04:48 G	30751391.48	30751391.70	30751391.91	0.0089	0.0004
Venus	79482-12-19 17:32 G	30751617.01	30751617.23	30751617.45	0.0089	0.0005
Venus	79483-08-02 06:29 G	30751842.56	30751842.77	30751842.99	0.0089	0.0014
Venus	79484-03-14 19:27 G	30752068.10	30752068.31	30752068.52	0.0089	0.0023
Jupiter	79484-03-19 15:22 G	30752072.67	30752073.14	30752073.70	0.0089	0.0033
Venus	79484-10-26 07:56 G	30752293.64	30752293.83	30752294.05	0.0089	0.0032
Venus	79485-06-08 21:08 G	30752519.19	30752519.38	30752519.58	0.0089	0.0040
Venus	79486-01-20 09:51 G	30752744.74	30752744.91	30752745.10	0.0089	0.0049
Venus	79486-09-02 23:03 G	30752970.29	30752970.46	30752970.63	0.0090	0.0057
Venus	79487-04-16 11:32 G	30753195.85	30753195.98	30753196.14	0.0090	0.0066
Venus	79487-11-28 00:29 G	30753421.41	30753421.52	30753421.65	0.0090	0.0074
Venus	79488-07-10 13:12 G	30753646.99	30753647.05	30753647.16	0.0090	0.0083
Earth	79495-10-30 01:56 G	30756314.57	30756314.58	30756314.65	0.0090	0.0089
Moon	79495-10-30 05:32 G	30756314.69	30756314.73	30756314.82	0.0090	0.0087
Moon	79496-10-31 10:34 G	30756681.78	30756681.94	30756682.12	0.0090	0.0067
Earth	79496-10-31 14:10 G	30756681.92	30756682.09	30756682.27	0.0090	0.0064 *
Earth	79497-11-03 01:41 G	30757049.35	30757049.57	30757049.80	0.0090	0.0040
Moon	79497-11-03 04:48 G	30757049.49	30757049.70	30757049.95	0.0090	0.0038 *
Moon	79498-11-05 11:03 G	30757416.72	30757416.96	30757417.21	0.0090	0.0018
Earth	79498-11-05 13:12 G	30757416.81	30757417.05	30757417.31	0.0090	0.0016 *
Earth	79499-11-08 00:29 G	30757784.28	30757784.52	30757784.78	0.0090	0.0009
Moon	79499-11-08 02:24 G	30757784.35	30757784.60	30757784.87	0.0090	0.0012 *
Moon	79500-11-10 11:32 G	30758151.76	30758151.98	30758152.22	0.0090	0.0030
Earth	79500-11-10 11:46 G	30758151.77	30758151.99	30758152.24	0.0090	0.0033 *
Moon	79501-11-12 22:05 G	30758519.24	30758519.42	30758519.63	0.0090	0.0059
Earth	79501-11-12 23:03 G	30758519.28	30758519.46	30758519.68	0.0090	0.0057 *
Earth	79502-11-15 10:20 G	30758886.84	30758886.93	30758887.06	0.0090	0.0081
Moon	79502-11-15 12:00 G	30758886.90	30758887.00	30758887.14	0.0090	0.0078 *

Mercury	79508-02-18 07:56 G	30760807.78	30760807.83	30760807.90	0.0090	0.0084
Mercury	79508-05-16 10:48 G	30760895.86	30760895.95	30760896.05	0.0090	0.0074
Mercury	79508-08-12 13:41 G	30760983.95	30760984.07	30760984.18	0.0090	0.0064
Mercury	79508-11-08 16:05 G	30761072.05	30761072.17	30761072.31	0.0090	0.0055
Mercury	79509-02-04 18:44 G	30761160.14	30761160.28	30761160.44	0.0090	0.0045
Mercury	79509-05-03 21:36 G	30761248.25	30761248.40	30761248.56	0.0090	0.0035
Mercury	79509-07-31 00:15 G	30761336.35	30761336.51	30761336.68	0.0090	0.0026
Mercury	79509-10-27 02:53 G	30761424.46	30761424.62	30761424.79	0.0090	0.0016
Mercury	79510-01-23 05:32 G	30761512.56	30761512.73	30761512.90	0.0090	0.0007
Mercury	79510-04-21 08:10 G	30761600.67	30761600.84	30761601.01	0.0090	0.0003
Mercury	79510-07-18 10:48 G	30761688.78	30761688.95	30761689.12	0.0090	0.0012
Mercury	79510-10-14 13:27 G	30761776.90	30761777.06	30761777.22	0.0090	0.0022
Mercury	79511-01-10 15:51 G	30761865.01	30761865.16	30761865.32	0.0090	0.0031
Mercury	79511-04-08 18:15 G	30761953.12	30761953.26	30761953.42	0.0090	0.0041
Mercury	79511-07-05 20:53 G	30762041.24	30762041.37	30762041.52	0.0090	0.0050
Mercury	79511-10-01 23:32 G	30762129.36	30762129.48	30762129.61	0.0090	0.0059
Mercury	79511-12-29 01:41 G	30762217.48	30762217.57	30762217.69	0.0090	0.0069
Mercury	79512-03-26 04:20 G	30762305.61	30762305.68	30762305.77	0.0090	0.0078
Mercury	79512-06-22 06:44 G	30762393.76	30762393.78	30762393.84	0.0090	0.0087
Mars	79528-12-18 06:44 G	30768416.44	30768416.78	30768417.11	0.0089	0.0002
Venus	79557-09-08 21:51 G	30778908.36	30778908.41	30778908.49	0.0088	0.0084
Venus	79558-04-22 10:48 G	30779133.86	30779133.95	30779134.08	0.0088	0.0076
Venus	79558-12-04 00:29 G	30779359.38	30779359.52	30779359.67	0.0088	0.0068
Venus	79559-07-17 13:41 G	30779584.91	30779585.07	30779585.24	0.0088	0.0059
Venus	79560-02-28 02:39 G	30779810.45	30779810.61	30779810.81	0.0088	0.0051
Venus	79560-10-10 15:51 G	30780035.98	30780036.16	30780036.37	0.0088	0.0043
Venus	79561-05-24 05:17 G	30780261.52	30780261.72	30780261.93	0.0088	0.0034
Venus	79562-01-04 18:29 G	30780487.07	30780487.27	30780487.50	0.0088	0.0026
Venus	79562-08-18 07:56 G	30780712.61	30780712.83	30780713.05	0.0088	0.0017
Venus	79563-03-31 21:08 G	30780938.16	30780938.38	30780938.60	0.0088	0.0009

Venus	79563-11-12 10:05 G	30781163.70	30781163.92	30781164.15	0.0088	0.0002
Venus	79564-06-24 23:17 G	30781389.25	30781389.47	30781389.70	0.0088	0.0008
Venus	79565-02-05 12:44 G	30781614.81	30781615.03	30781615.25	0.0088	0.0016
Venus	79565-09-19 01:27 G	30781840.36	30781840.56	30781840.79	0.0088	0.0025
Venus	79566-05-02 14:39 G	30782065.91	30782066.11	30782066.32	0.0088	0.0033
Venus	79566-12-14 03:36 G	30782291.47	30782291.65	30782291.86	0.0088	0.0042
Venus	79567-07-27 16:34 G	30782517.03	30782517.19	30782517.39	0.0088	0.0050
Venus	79568-03-09 06:00 G	30782742.59	30782742.75	30782742.92	0.0088	0.0058
Venus	79568-10-20 19:12 G	30782968.16	30782968.30	30782968.45	0.0088	0.0066
Venus	79569-06-03 07:41 G	30783193.73	30783193.82	30783193.96	0.0088	0.0075
Venus	79570-01-14 20:53 G	30783419.33	30783419.37	30783419.47	0.0088	0.0083
Moon	79578-04-30 16:20 G	30786447.08	30786447.18	30786447.32	0.0088	0.0077
Earth	79578-04-30 19:56 G	30786447.21	30786447.33	30786447.49	0.0088	0.0074 *
Earth	79579-05-03 07:41 G	30786814.62	30786814.82	30786815.05	0.0088	0.0051
Moon	79579-05-03 10:20 G	30786814.72	30786814.93	30786815.16	0.0088	0.0048 *
Moon	79580-05-04 18:00 G	30787182.02	30787182.25	30787182.49	0.0088	0.0030
Earth	79580-05-04 19:41 G	30787182.08	30787182.32	30787182.58	0.0088	0.0028 *
Earth	79581-05-07 07:27 G	30787549.55	30787549.81	30787550.08	0.0088	0.0005
Moon	79581-05-07 08:10 G	30787549.57	30787549.84	30787550.11	0.0088	0.0002 *
Earth	79582-05-09 19:12 G	30787917.05	30787917.30	30787917.57	0.0088	0.0019
Moon	79582-05-09 20:24 G	30787917.11	30787917.35	30787917.60	0.0088	0.0016 *
Moon	79583-05-12 05:03 G	30788284.50	30788284.71	30788284.97	0.0088	0.0044
Earth	79583-05-12 06:58 G	30788284.58	30788284.79	30788285.04	0.0088	0.0042 *
Earth	79584-05-13 18:44 G	30788652.12	30788652.28	30788652.47	0.0088	0.0065
Moon	79584-05-13 21:51 G	30788652.24	30788652.41	30788652.60	0.0088	0.0063 *
Earth	79585-05-16 07:12 G	30789019.80	30789019.80	30789019.80	0.0088	0.0088
Mercury	79590-05-09 02:39 G	30790838.57	30790838.61	30790838.67	0.0088	0.0081
Mercury	79590-08-05 04:20 G	30790926.61	30790926.68	30790926.77	0.0088	0.0074
Mercury	79590-11-01 06:15 G	30791014.67	30791014.76	30791014.86	0.0088	0.0066
Mercury	79591-01-28 07:41 G	30791102.72	30791102.82	30791102.94	0.0088	0.0059

Mercury	79591-04-26 09:36 G	30791190.78	30791190.90	30791191.02	0.0088	0.0051
Mercury	79591-07-23 11:03 G	30791278.84	30791278.96	30791279.10	0.0088	0.0044
Mercury	79591-10-19 12:58 G	30791366.91	30791367.04	30791367.18	0.0088	0.0036
Mercury	79592-01-15 14:39 G	30791454.97	30791455.11	30791455.25	0.0088	0.0028
Mercury	79592-04-12 16:20 G	30791543.04	30791543.18	30791543.33	0.0088	0.0020
Mercury	79592-07-09 18:15 G	30791631.11	30791631.26	30791631.40	0.0088	0.0013
Mercury	79592-10-05 19:56 G	30791719.18	30791719.33	30791719.48	0.0088	0.0005
Mercury	79593-01-01 21:36 G	30791807.25	30791807.40	30791807.55	0.0088	0.0003
Mercury	79593-03-30 23:17 G	30791895.33	30791895.47	30791895.62	0.0088	0.0011
Mercury	79593-06-27 00:58 G	30791983.40	30791983.54	30791983.69	0.0088	0.0019
Mercury	79593-09-23 02:39 G	30792071.48	30792071.61	30792071.76	0.0088	0.0027
Mercury	79593-12-20 04:34 G	30792159.56	30792159.69	30792159.83	0.0088	0.0034
Mercury	79594-03-18 06:29 G	30792247.64	30792247.77	30792247.90	0.0088	0.0042
Mercury	79594-06-14 08:10 G	30792335.72	30792335.84	30792335.97	0.0088	0.0050
Mercury	79594-09-10 09:51 G	30792423.81	30792423.91	30792424.03	0.0088	0.0058
Mercury	79594-12-07 11:46 G	30792511.90	30792511.99	30792512.09	0.0088	0.0066
Mercury	79595-03-05 13:27 G	30792599.99	30792600.06	30792600.15	0.0088	0.0074
Mercury	79595-06-01 15:22 G	30792688.10	30792688.14	30792688.20	0.0088	0.0082
Mars	79612-09-30 05:03 G	30799018.45	30799018.71	30799019.01	0.0088	0.0032
Saturn	79613-10-10 00:58 G	30799392.99	30799393.54	30799394.21	0.0088	0.0043
Venus	79641-01-18 17:03 G	30809356.15	30809356.21	30809356.30	0.0089	0.0083
Venus	79641-09-01 05:46 G	30809581.64	30809581.74	30809581.88	0.0089	0.0075
Venus	79642-04-14 18:44 G	30809807.15	30809807.28	30809807.43	0.0089	0.0067
Venus	79642-11-26 07:12 G	30810032.66	30810032.80	30810032.99	0.0089	0.0059
Venus	79643-07-09 20:24 G	30810258.18	30810258.35	30810258.54	0.0089	0.0050
Venus	79644-02-20 09:08 G	30810483.70	30810483.88	30810484.09	0.0089	0.0041
Venus	79644-10-02 22:05 G	30810709.23	30810709.42	30810709.63	0.0089	0.0033
Venus	79645-05-16 11:03 G	30810934.75	30810934.96	30810935.17	0.0089	0.0024
Venus	79645-12-27 23:46 G	30811160.28	30811160.49	30811160.71	0.0089	0.0015
Venus	79646-08-10 12:44 G	30811385.82	30811386.03	30811386.25	0.0089	0.0007

Venus	79647-03-24 01:41 G	30811611.35	30811611.57	30811611.79	0.0089	0.0002
Venus	79647-11-04 14:24 G	30811836.89	30811837.10	30811837.32	0.0089	0.0011
Venus	79648-06-17 03:22 G	30812062.43	30812062.64	30812062.85	0.0089	0.0019
Venus	79649-01-28 16:05 G	30812287.97	30812288.17	30812288.39	0.0089	0.0028
Venus	79649-09-11 05:03 G	30812513.52	30812513.71	30812513.91	0.0089	0.0037
Venus	79650-04-24 17:46 G	30812739.07	30812739.24	30812739.44	0.0089	0.0046
Venus	79650-12-06 06:58 G	30812964.62	30812964.79	30812964.96	0.0089	0.0054
Venus	79651-07-19 19:41 G	30813190.18	30813190.32	30813190.49	0.0089	0.0063
Venus	79652-03-01 08:24 G	30813415.74	30813415.85	30813416.00	0.0090	0.0072
Venus	79652-10-12 21:22 G	30813641.31	30813641.39	30813641.51	0.0090	0.0080
Venus	79653-05-26 10:34 G	30813866.91	30813866.94	30813866.98	0.0090	0.0088
Earth	79660-10-31 19:12 G	30816582.16	30816582.30	30816582.44	0.0090	0.0075
Moon	79660-10-31 22:20 G	30816582.31	30816582.43	30816582.55	0.0090	0.0079 *
Moon	79661-11-03 04:20 G	30816949.48	30816949.68	30816949.90	0.0090	0.0047
Earth	79661-11-03 06:58 G	30816949.58	30816949.79	30816949.99	0.0090	0.0051 *
Earth	79662-11-05 18:15 G	30817317.02	30817317.26	30817317.50	0.0090	0.0027
Moon	79662-11-05 18:29 G	30817317.04	30817317.27	30817317.54	0.0090	0.0032 *
Earth	79663-11-08 05:46 G	30817684.49	30817684.74	30817685.00	0.0090	0.0003
Moon	79663-11-08 05:46 G	30817684.50	30817684.74	30817684.99	0.0090	0.0002 *
Moon	79664-11-09 15:51 G	30818051.90	30818052.16	30818052.42	0.0090	0.0017
Earth	79664-11-09 17:03 G	30818051.97	30818052.21	30818052.47	0.0090	0.0022 *
Earth	79665-11-12 04:05 G	30818419.47	30818419.67	30818419.91	0.0090	0.0046
Moon	79665-11-12 06:58 G	30818419.60	30818419.79	30818420.01	0.0090	0.0050 *
Moon	79666-11-14 12:44 G	30818786.86	30818787.03	30818787.22	0.0090	0.0065
Earth	79666-11-14 15:22 G	30818787.01	30818787.14	30818787.33	0.0090	0.0070 *
Mercury	79672-11-14 05:32 G	30820978.67	30820978.73	30820978.81	0.0090	0.0082
Mercury	79673-02-10 08:24 G	30821066.76	30821066.85	30821066.96	0.0090	0.0072
Mercury	79673-05-09 10:48 G	30821154.85	30821154.95	30821155.09	0.0090	0.0063
Mercury	79673-08-05 13:41 G	30821242.94	30821243.07	30821243.22	0.0090	0.0053
Mercury	79673-11-01 16:34 G	30821331.04	30821331.19	30821331.34	0.0090	0.0043

Mercury	79674-01-28 19:12 G	30821419.15	30821419.30	30821419.46	0.0090	0.0033
Mercury	79674-04-26 21:51 G	30821507.25	30821507.41	30821507.58	0.0090	0.0024
Mercury	79674-07-24 00:44 G	30821595.36	30821595.53	30821595.69	0.0090	0.0014
Mercury	79674-10-20 03:22 G	30821683.47	30821683.64	30821683.81	0.0090	0.0005
Mercury	79675-01-16 05:46 G	30821771.58	30821771.74	30821771.91	0.0090	0.0006
Mercury	79675-04-14 08:24 G	30821859.69	30821859.85	30821860.02	0.0090	0.0015
Mercury	79675-07-11 11:03 G	30821947.80	30821947.96	30821948.12	0.0090	0.0024
Mercury	79675-10-07 13:27 G	30822035.92	30822036.06	30822036.23	0.0090	0.0034
Mercury	79676-01-03 16:05 G	30822124.03	30822124.17	30822124.32	0.0090	0.0043
Mercury	79676-03-31 18:44 G	30822212.15	30822212.28	30822212.42	0.0090	0.0052
Mercury	79676-06-27 21:22 G	30822300.27	30822300.39	30822300.51	0.0090	0.0061
Mercury	79676-09-23 23:32 G	30822388.39	30822388.48	30822388.60	0.0090	0.0071
Mercury	79676-12-21 02:10 G	30822476.53	30822476.59	30822476.68	0.0090	0.0080
Mercury	79677-03-19 04:34 G	30822564.68	30822564.69	30822564.73	0.0090	0.0089
Mars	79692-07-31 14:39 G	30828177.95	30828178.11	30828178.35	0.0089	0.0071
Mars	79694-06-27 13:12 G	30828873.98	30828874.05	30828874.16	0.0089	0.0086
Venus	79721-12-12 05:46 G	30838902.73	30838902.74	30838902.79	0.0088	0.0088
Venus	79722-07-25 18:58 G	30839128.22	30839128.29	30839128.41	0.0088	0.0079
Venus	79723-03-08 08:39 G	30839353.73	30839353.86	30839353.99	0.0088	0.0071
Venus	79723-10-19 21:36 G	30839579.25	30839579.40	30839579.57	0.0088	0.0062
Venus	79724-06-01 10:34 G	30839804.78	30839804.94	30839805.14	0.0088	0.0054
Venus	79725-01-13 00:15 G	30840030.33	30840030.51	30840030.71	0.0088	0.0045
Venus	79725-08-26 13:27 G	30840255.87	30840256.06	30840256.27	0.0088	0.0037
Venus	79726-04-09 02:24 G	30840481.41	30840481.60	30840481.83	0.0088	0.0029
Venus	79726-11-20 15:51 G	30840706.95	30840707.16	30840707.38	0.0088	0.0020
Venus	79727-07-04 05:03 G	30840932.50	30840932.71	30840932.94	0.0088	0.0012
Venus	79728-02-14 18:29 G	30841158.05	30841158.27	30841158.50	0.0088	0.0004
Venus	79728-09-27 07:41 G	30841383.60	30841383.82	30841384.05	0.0088	0.0005
Venus	79729-05-10 20:39 G	30841609.15	30841609.36	30841609.59	0.0088	0.0014
Venus	79729-12-22 10:05 G	30841834.71	30841834.92	30841835.14	0.0088	0.0022



Venus	79730-08-04 23:03 G	30842060.26	30842060.46	30842060.68	0.0088	0.0031
Venus	79731-03-18 12:15 G	30842285.82	30842286.01	30842286.22	0.0088	0.0039
Venus	79731-10-30 00:58 G	30842511.38	30842511.54	30842511.75	0.0088	0.0048
Venus	79732-06-11 14:10 G	30842736.94	30842737.09	30842737.28	0.0088	0.0056
Venus	79733-01-23 03:36 G	30842962.51	30842962.65	30842962.81	0.0088	0.0064
Venus	79733-09-05 17:03 G	30843188.08	30843188.21	30843188.33	0.0088	0.0072
Venus	79734-04-19 05:17 G	30843413.66	30843413.72	30843413.83	0.0088	0.0081
Earth	79742-05-01 00:58 G	30846347.49	30846347.54	30846347.65	0.0088	0.0084
Moon	79742-05-01 03:22 G	30846347.56	30846347.64	30846347.78	0.0088	0.0080 *
Moon	79743-05-03 12:15 G	30846714.86	30846715.01	30846715.21	0.0088	0.0064
Earth	79743-05-03 12:58 G	30846714.87	30846715.04	30846715.25	0.0088	0.0061 *
Moon	79744-05-05 00:15 G	30847082.28	30847082.51	30847082.78	0.0088	0.0035
Earth	79744-05-05 00:44 G	30847082.31	30847082.53	30847082.78	0.0088	0.0038 *
Earth	79745-05-07 12:44 G	30847449.78	30847450.03	30847450.29	0.0088	0.0015
Moon	79745-05-07 13:56 G	30847449.84	30847450.08	30847450.34	0.0088	0.0018 *
Moon	79746-05-09 21:36 G	30847817.14	30847817.40	30847817.67	0.0088	0.0012
Earth	79746-05-10 00:29 G	30847817.27	30847817.52	30847817.79	0.0088	0.0009 *
Earth	79747-05-12 12:00 G	30848184.77	30848185.00	30848185.26	0.0088	0.0032
Moon	79747-05-12 15:22 G	30848184.90	30848185.14	30848185.39	0.0088	0.0028 *
Moon	79748-05-13 20:10 G	30848552.16	30848552.34	30848552.55	0.0088	0.0059
Earth	79748-05-13 23:46 G	30848552.31	30848552.49	30848552.72	0.0088	0.0055 *
Earth	79749-05-16 11:32 G	30848919.88	30848919.98	30848920.12	0.0088	0.0078
Moon	79749-05-16 15:08 G	30848920.01	30848920.13	30848920.29	0.0088	0.0074 *
Mercury	79754-11-07 23:46 G	30850921.48	30850921.49	30850921.53	0.0088	0.0086
Mercury	79755-02-04 01:27 G	30851009.51	30851009.56	30851009.63	0.0088	0.0078
Mercury	79755-05-03 03:08 G	30851097.56	30851097.63	30851097.72	0.0088	0.0071
Mercury	79755-07-30 04:48 G	30851185.61	30851185.70	30851185.81	0.0088	0.0063
Mercury	79755-10-26 06:29 G	30851273.67	30851273.77	30851273.89	0.0088	0.0056
Mercury	79756-01-22 08:10 G	30851361.73	30851361.84	30851361.97	0.0088	0.0048
Mercury	79756-04-19 09:51 G	30851449.79	30851449.91	30851450.05	0.0088	0.0041

Mercury	79756-07-16 11:46 G	30851537.86	30851537.99	30851538.13	0.0088	0.0033
Mercury	79756-10-12 13:27 G	30851625.92	30851626.06	30851626.20	0.0088	0.0025
Mercury	79757-01-08 15:08 G	30851713.99	30851714.13	30851714.28	0.0088	0.0018
Mercury	79757-04-06 16:48 G	30851802.06	30851802.20	30851802.35	0.0088	0.0010
Mercury	79757-07-03 18:44 G	30851890.13	30851890.28	30851890.43	0.0088	0.0002
Mercury	79757-09-29 20:24 G	30851978.20	30851978.35	30851978.50	0.0088	0.0006
Mercury	79757-12-26 22:05 G	30852066.28	30852066.42	30852066.57	0.0088	0.0013
Mercury	79758-03-24 23:46 G	30852154.35	30852154.49	30852154.64	0.0088	0.0021
Mercury	79758-06-21 01:41 G	30852242.43	30852242.57	30852242.71	0.0088	0.0029
Mercury	79758-09-17 03:22 G	30852330.51	30852330.64	30852330.78	0.0088	0.0037
Mercury	79758-12-14 05:03 G	30852418.59	30852418.71	30852418.85	0.0088	0.0045
Mercury	79759-03-12 06:44 G	30852506.67	30852506.78	30852506.91	0.0088	0.0053
Mercury	79759-06-08 08:39 G	30852594.76	30852594.86	30852594.97	0.0088	0.0061
Mercury	79759-09-04 10:20 G	30852682.85	30852682.93	30852683.03	0.0088	0.0069
Mercury	79759-12-01 12:00 G	30852770.95	30852771.00	30852771.09	0.0088	0.0077
Mercury	79760-02-27 13:56 G	30852859.06	30852859.08	30852859.13	0.0088	0.0085
Mars	79776-05-16 08:10 G	30858781.57	30858781.84	30858782.14	0.0088	0.0027
Venus	79805-04-24 01:41 G	30869350.52	30869350.57	30869350.61	0.0089	0.0087
Venus	79805-12-05 13:56 G	30869576.00	30869576.08	30869576.20	0.0089	0.0079
Venus	79806-07-19 02:53 G	30869801.51	30869801.62	30869801.77	0.0089	0.0070
Venus	79807-03-01 15:51 G	30870027.02	30870027.16	30870027.33	0.0089	0.0062
Venus	79807-10-13 04:20 G	30870252.53	30870252.68	30870252.88	0.0089	0.0054
Venus	79808-05-25 17:17 G	30870478.05	30870478.22	30870478.43	0.0089	0.0045
Venus	79809-01-06 06:29 G	30870703.57	30870703.77	30870703.97	0.0089	0.0036
Venus	79809-08-19 18:58 G	30870929.10	30870929.29	30870929.51	0.0089	0.0028
Venus	79810-04-02 07:56 G	30871154.62	30871154.83	30871155.05	0.0089	0.0019
Venus	79810-11-13 20:53 G	30871380.15	30871380.37	30871380.58	0.0089	0.0010
Venus	79811-06-27 09:36 G	30871605.69	30871605.90	30871606.12	0.0089	0.0002
Venus	79812-02-07 22:34 G	30871831.22	30871831.44	30871831.66	0.0089	0.0008
Venus	79812-09-20 11:17 G	30872056.76	30872056.97	30872057.19	0.0089	0.0016

Venus	79813-05-03 23:46 G	30872282.30	30872282.49	30872282.71	0.0089	0.0026
Venus	79813-12-15 12:44 G	30872507.84	30872508.03	30872508.24	0.0089	0.0034
Venus	79814-07-29 01:41 G	30872733.39	30872733.57	30872733.77	0.0089	0.0043
Venus	79815-03-11 14:53 G	30872958.94	30872959.12	30872959.30	0.0089	0.0051
Venus	79815-10-23 03:22 G	30873184.49	30873184.64	30873184.82	0.0089	0.0060
Venus	79816-06-04 16:05 G	30873410.05	30873410.17	30873410.33	0.0089	0.0069
Venus	79817-01-16 05:17 G	30873635.62	30873635.72	30873635.84	0.0090	0.0077
Venus	79817-08-29 18:00 G	30873861.21	30873861.25	30873861.33	0.0090	0.0086
Moon	79824-11-01 21:51 G	30876482.36	30876482.41	30876482.50	0.0090	0.0086
Earth	79824-11-01 23:46 G	30876482.42	30876482.49	30876482.56	0.0090	0.0086 *
Earth	79825-11-04 10:34 G	30876849.78	30876849.94	30876850.15	0.0090	0.0063
Moon	79825-11-04 11:03 G	30876849.80	30876849.96	30876850.17	0.0090	0.0064 *
Earth	79826-11-06 22:05 G	30877217.21	30877217.42	30877217.67	0.0090	0.0039
Moon	79826-11-06 23:32 G	30877217.27	30877217.48	30877217.72	0.0090	0.0038 *
Moon	79827-11-09 07:56 G	30877584.58	30877584.83	30877585.09	0.0090	0.0015
Earth	79827-11-09 09:51 G	30877584.67	30877584.91	30877585.17	0.0090	0.0015 *
Earth	79828-11-10 21:36 G	30877952.15	30877952.40	30877952.65	0.0090	0.0010
Moon	79828-11-11 00:15 G	30877952.27	30877952.51	30877952.76	0.0090	0.0012 *
Moon	79829-11-13 05:17 G	30878319.50	30878319.72	30878319.97	0.0090	0.0034
Earth	79829-11-13 09:08 G	30878319.65	30878319.88	30878320.12	0.0090	0.0034 *
Earth	79830-11-15 20:24 G	30878687.17	30878687.35	30878687.55	0.0090	0.0058
Moon	79830-11-15 23:32 G	30878687.31	30878687.48	30878687.69	0.0090	0.0060 *
Moon	79831-11-18 04:20 G	30879054.59	30879054.68	30879054.81	0.0090	0.0080
Earth	79831-11-18 07:41 G	30879054.74	30879054.82	30879054.94	0.0090	0.0082 *
Mercury	79837-05-17 00:44 G	30881061.53	30881061.53	30881061.53	0.0090	0.0090
Mercury	79837-08-13 03:22 G	30881149.57	30881149.64	30881149.72	0.0090	0.0080
Mercury	79837-11-09 06:15 G	30881237.65	30881237.76	30881237.86	0.0090	0.0070
Mercury	79838-02-05 08:39 G	30881325.75	30881325.86	30881326.00	0.0090	0.0061
Mercury	79838-05-04 11:32 G	30881413.85	30881413.98	30881414.13	0.0090	0.0051
Mercury	79838-07-31 14:10 G	30881501.95	30881502.09	30881502.25	0.0090	0.0041

Mercury	79838-10-27 16:48 G	30881590.05	30881590.20	30881590.37	0.0090	0.0032
Mercury	79839-01-23 19:41 G	30881678.16	30881678.32	30881678.49	0.0090	0.0022
Mercury	79839-04-21 22:20 G	30881766.26	30881766.43	30881766.60	0.0090	0.0012
Mercury	79839-07-19 00:58 G	30881854.37	30881854.54	30881854.71	0.0090	0.0003
Mercury	79839-10-15 03:36 G	30881942.48	30881942.65	30881942.82	0.0090	0.0007
Mercury	79840-01-11 06:15 G	30882030.59	30882030.76	30882030.93	0.0090	0.0016
Mercury	79840-04-08 08:53 G	30882118.71	30882118.87	30882119.03	0.0090	0.0026
Mercury	79840-07-05 11:17 G	30882206.82	30882206.97	30882207.13	0.0090	0.0035
Mercury	79840-10-01 13:41 G	30882294.94	30882295.07	30882295.23	0.0090	0.0045
Mercury	79840-12-28 16:34 G	30882383.06	30882383.19	30882383.32	0.0090	0.0054
Mercury	79841-03-26 19:12 G	30882471.18	30882471.30	30882471.42	0.0090	0.0063
Mercury	79841-06-22 21:22 G	30882559.31	30882559.39	30882559.50	0.0090	0.0073
Mercury	79841-09-18 23:46 G	30882647.44	30882647.49	30882647.58	0.0090	0.0082
Mars	79858-02-09 19:56 G	30888635.02	30888635.33	30888635.67	0.0089	0.0015
Venus	79886-10-28 02:53 G	30899122.56	30899122.62	30899122.72	0.0088	0.0082
Venus	79887-06-10 15:51 G	30899348.07	30899348.16	30899348.31	0.0088	0.0074
Venus	79888-01-22 05:32 G	30899573.59	30899573.73	30899573.89	0.0088	0.0065
Venus	79888-09-03 18:29 G	30899799.12	30899799.27	30899799.46	0.0088	0.0057
Venus	79889-04-17 07:56 G	30900024.65	30900024.83	30900025.02	0.0088	0.0049
Venus	79889-11-28 20:53 G	30900250.19	30900250.37	30900250.58	0.0088	0.0040
Venus	79890-07-12 10:34 G	30900475.73	30900475.94	30900476.15	0.0088	0.0032
Venus	79891-02-22 23:32 G	30900701.28	30900701.48	30900701.71	0.0088	0.0023
Venus	79891-10-06 12:44 G	30900926.82	30900927.03	30900927.26	0.0088	0.0015
Venus	79892-05-19 02:10 G	30901152.37	30901152.59	30901152.81	0.0088	0.0006
Venus	79892-12-30 15:36 G	30901377.92	30901378.15	30901378.37	0.0088	0.0003
Venus	79893-08-13 04:48 G	30901603.48	30901603.70	30901603.92	0.0088	0.0011
Venus	79894-03-26 17:46 G	30901829.03	30901829.24	30901829.46	0.0088	0.0020
Venus	79894-11-07 06:58 G	30902054.58	30902054.79	30902055.01	0.0088	0.0028
Venus	79895-06-20 19:56 G	30902280.14	30902280.33	30902280.55	0.0088	0.0037
Venus	79896-02-01 09:22 G	30902505.71	30902505.89	30902506.09	0.0088	0.0045

Venus	79896-09-13 22:48 G	30902731.27	30902731.45	30902731.62	0.0088	0.0053
Venus	79897-04-27 11:17 G	30902956.84	30902956.97	30902957.15	0.0088	0.0062
Venus	79897-12-09 00:44 G	30903182.41	30903182.53	30903182.67	0.0088	0.0070
Venus	79898-07-22 13:56 G	30903407.99	30903408.08	30903408.19	0.0088	0.0078
Venus	79899-03-05 02:39 G	30903633.60	30903633.61	30903633.67	0.0088	0.0087
Moon	79907-05-04 17:03 G	30906615.09	30906615.21	30906615.38	0.0088	0.0074
Earth	79907-05-04 18:29 G	30906615.13	30906615.27	30906615.44	0.0088	0.0070 *
Earth	79908-05-06 06:29 G	30906982.56	30906982.77	30906983.00	0.0088	0.0047
Moon	79908-05-06 08:24 G	30906982.65	30906982.85	30906983.09	0.0088	0.0044 *
Moon	79909-05-08 15:22 G	30907349.90	30907350.14	30907350.41	0.0088	0.0028
Earth	79909-05-08 18:29 G	30907350.02	30907350.27	30907350.52	0.0088	0.0024 *
Earth	79910-05-11 06:15 G	30907717.50	30907717.76	30907718.02	0.0088	0.0001
Moon	79910-05-11 09:51 G	30907717.66	30907717.91	30907718.17	0.0088	0.0003 *
Moon	79911-05-13 14:24 G	30908084.86	30908085.10	30908085.37	0.0088	0.0019
Earth	79911-05-13 18:00 G	30908085.00	30908085.25	30908085.51	0.0088	0.0022 *
Earth	79912-05-15 05:17 G	30908452.51	30908452.72	30908452.96	0.0088	0.0045
Moon	79912-05-15 08:53 G	30908452.66	30908452.87	30908453.11	0.0088	0.0048 *
Moon	79913-05-17 15:08 G	30908819.96	30908820.13	30908820.31	0.0088	0.0064
Earth	79913-05-17 17:03 G	30908820.07	30908820.21	30908820.40	0.0088	0.0068 *
Mercury	79919-08-06 22:34 G	30911092.41	30911092.44	30911092.50	0.0088	0.0084
Mercury	79919-11-03 00:15 G	30911180.45	30911180.51	30911180.59	0.0088	0.0076
Mercury	79920-01-30 01:56 G	30911268.50	30911268.58	30911268.68	0.0088	0.0068
Mercury	79920-04-27 03:36 G	30911356.56	30911356.65	30911356.76	0.0088	0.0061
Mercury	79920-07-24 05:17 G	30911444.61	30911444.72	30911444.84	0.0088	0.0053
Mercury	79920-10-20 06:58 G	30911532.68	30911532.79	30911532.92	0.0088	0.0046
Mercury	79921-01-16 08:53 G	30911620.74	30911620.87	30911621.00	0.0088	0.0038
Mercury	79921-04-14 10:20 G	30911708.80	30911708.93	30911709.08	0.0088	0.0031
Mercury	79921-07-11 12:15 G	30911796.87	30911797.01	30911797.15	0.0088	0.0023
Mercury	79921-10-07 13:56 G	30911884.94	30911885.08	30911885.23	0.0088	0.0015
Mercury	79922-01-03 15:36 G	30911973.01	30911973.15	30911973.30	0.0088	0.0008

Mercury	79922-04-01 17:32 G	30912061.08	30912061.23	30912061.37	0.0088	0.0002
Mercury	79922-06-28 19:12 G	30912149.15	30912149.30	30912149.45	0.0088	0.0008
Mercury	79922-09-24 20:53 G	30912237.23	30912237.37	30912237.52	0.0088	0.0016
Mercury	79922-12-21 22:34 G	30912325.30	30912325.44	30912325.59	0.0088	0.0024
Mercury	79923-03-20 00:15 G	30912413.38	30912413.51	30912413.66	0.0088	0.0032
Mercury	79923-06-16 01:56 G	30912501.46	30912501.58	30912501.72	0.0088	0.0040
Mercury	79923-09-12 03:36 G	30912589.54	30912589.65	30912589.79	0.0088	0.0048
Mercury	79923-12-09 05:46 G	30912677.62	30912677.74	30912677.85	0.0088	0.0055
Mercury	79924-03-06 07:27 G	30912765.71	30912765.81	30912765.92	0.0088	0.0063
Mercury	79924-06-02 09:08 G	30912853.80	30912853.88	30912853.97	0.0088	0.0071
Mercury	79924-08-29 10:48 G	30912941.90	30912941.95	30912942.03	0.0088	0.0079
Mercury	79924-11-25 12:44 G	30913030.02	30913030.03	30913030.05	0.0088	0.0087
Mars	79940-01-01 10:34 G	30918544.90	30918544.94	30918545.06	0.0088	0.0085
Mars	79941-11-25 08:24 G	30919238.61	30919238.85	30919239.11	0.0088	0.0048
Venus	79970-03-09 21:51 G	30929570.35	30929570.41	30929570.52	0.0089	0.0083
Venus	79970-10-21 11:03 G	30929795.85	30929795.96	30929796.09	0.0089	0.0073
Venus	79971-06-03 23:46 G	30930021.36	30930021.49	30930021.66	0.0089	0.0065
Venus	79972-01-15 12:44 G	30930246.88	30930247.03	30930247.21	0.0089	0.0056
Venus	79972-08-28 01:56 G	30930472.40	30930472.58	30930472.76	0.0089	0.0048
Venus	79973-04-10 14:24 G	30930697.92	30930698.10	30930698.31	0.0089	0.0039
Venus	79973-11-22 03:22 G	30930923.44	30930923.64	30930923.85	0.0089	0.0030
Venus	79974-07-05 16:20 G	30931148.97	30931149.18	30931149.39	0.0089	0.0022
Venus	79975-02-16 05:03 G	30931374.50	30931374.71	30931374.93	0.0089	0.0013
Venus	79975-09-29 18:00 G	30931600.03	30931600.25	30931600.47	0.0089	0.0004
Venus	79976-05-12 06:44 G	30931825.56	30931825.78	30931826.00	0.0089	0.0004
Venus	79976-12-23 19:27 G	30932051.10	30932051.31	30932051.53	0.0089	0.0013
Venus	79977-08-06 08:24 G	30932276.64	30932276.85	30932277.06	0.0089	0.0022
Venus	79978-03-19 21:08 G	30932502.18	30932502.38	30932502.59	0.0089	0.0031
Venus	79978-10-31 09:51 G	30932727.72	30932727.91	30932728.11	0.0089	0.0039
Venus	79979-06-13 22:34 G	30932953.27	30932953.44	30932953.64	0.0089	0.0048

Venus	79980-01-25 11:32 G	30933178.82	30933178.98	30933179.16	0.0089	0.0057
Venus	79980-09-07 00:15 G	30933404.38	30933404.51	30933404.68	0.0089	0.0066
Venus	79981-04-20 13:27 G	30933629.94	30933630.06	30933630.19	0.0089	0.0074
Venus	79981-12-02 01:56 G	30933855.52	30933855.58	30933855.68	0.0089	0.0083
Earth	79989-11-04 15:51 G	30936750.02	30936750.16	30936750.31	0.0090	0.0073
Moon	79989-11-04 17:03 G	30936750.10	30936750.21	30936750.34	0.0090	0.0078 *
Moon	79990-11-07 00:00 G	30937117.30	30937117.50	30937117.75	0.0090	0.0045
Earth	79990-11-07 02:53 G	30937117.43	30937117.62	30937117.85	0.0090	0.0050 *
Earth	79991-11-09 14:24 G	30937484.87	30937485.10	30937485.36	0.0090	0.0026
Moon	79991-11-09 18:00 G	30937485.01	30937485.25	30937485.48	0.0090	0.0030 *
Moon	79992-11-10 22:34 G	30937852.19	30937852.44	30937852.70	0.0090	0.0004
Earth	79992-11-11 02:10 G	30937852.34	30937852.59	30937852.85	0.0090	0.0002 *
Earth	79993-11-13 13:12 G	30938219.82	30938220.05	30938220.31	0.0090	0.0023
Moon	79993-11-13 16:48 G	30938219.95	30938220.20	30938220.46	0.0090	0.0017 *
Moon	79994-11-15 22:20 G	30938587.23	30938587.43	30938587.64	0.0090	0.0051
Earth	79994-11-16 00:29 G	30938587.33	30938587.52	30938587.76	0.0090	0.0047 *
Earth	79995-11-18 12:29 G	30938954.87	30938955.02	30938955.18	0.0090	0.0070
Moon	79995-11-18 14:10 G	30938954.94	30938955.09	30938955.29	0.0090	0.0066 *

# 81ST MILLENNIUM CE

This is a list of transits visible from Neptune in the 81st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
--------	-------------------------	---	-------	-----	-----	--------	-------	---

Mercury	80002-02-11 22:05 G	30941232.40	30941232.42	30941232.46	0.0090	0.0088
Mercury	80002-05-11 00:29 G	30941320.46	30941320.52	30941320.62	0.0090	0.0079
Mercury	80002-08-07 03:22 G	30941408.55	30941408.64	30941408.77	0.0090	0.0069
Mercury	80002-11-03 06:15 G	30941496.64	30941496.76	30941496.90	0.0090	0.0059
Mercury	80003-01-30 09:08 G	30941584.74	30941584.88	30941585.03	0.0090	0.0049
Mercury	80003-04-28 11:46 G	30941672.84	30941672.99	30941673.15	0.0090	0.0039
Mercury	80003-07-25 14:24 G	30941760.95	30941761.10	30941761.27	0.0090	0.0030
Mercury	80003-10-21 17:17 G	30941849.05	30941849.22	30941849.39	0.0090	0.0020
Mercury	80004-01-17 19:56 G	30941937.16	30941937.33	30941937.50	0.0090	0.0010
Mercury	80004-04-14 22:34 G	30942025.27	30942025.44	30942025.61	0.0090	0.0002
Mercury	80004-07-12 01:12 G	30942113.38	30942113.55	30942113.72	0.0090	0.0009
Mercury	80004-10-08 03:51 G	30942201.50	30942201.66	30942201.83	0.0090	0.0018
Mercury	80005-01-04 06:15 G	30942289.61	30942289.76	30942289.93	0.0090	0.0028
Mercury	80005-04-02 09:08 G	30942377.73	30942377.88	30942378.03	0.0090	0.0037
Mercury	80005-06-29 11:17 G	30942465.84	30942465.97	30942466.13	0.0090	0.0047
Mercury	80005-09-25 13:56 G	30942553.96	30942554.08	30942554.22	0.0090	0.0056
Mercury	80005-12-22 16:34 G	30942642.09	30942642.19	30942642.32	0.0090	0.0065
Mercury	80006-03-20 19:27 G	30942730.22	30942730.31	30942730.40	0.0090	0.0074
Mercury	80006-06-16 21:36 G	30942818.36	30942818.40	30942818.47	0.0090	0.0084
Mars	80021-09-24 04:48 G	30948396.46	30948396.70	30948396.98	0.0089	0.0056
Venus	80051-01-30 11:03 G	30959116.92	30959116.96	30959117.03	0.0088	0.0085
Venus	80051-09-13 00:00 G	30959342.42	30959342.50	30959342.63	0.0088	0.0077
Venus	80052-04-25 13:27 G	30959567.93	30959568.06	30959568.21	0.0088	0.0069
Venus	80052-12-07 02:24 G	30959793.46	30959793.60	30959793.78	0.0088	0.0061
Venus	80053-07-20 16:05 G	30960018.99	30960019.17	30960019.35	0.0088	0.0052
Venus	80054-03-03 05:03 G	30960244.53	30960244.71	30960244.92	0.0088	0.0043
Venus	80054-10-14 18:29 G	30960470.07	30960470.27	30960470.48	0.0088	0.0034
Venus	80055-05-28 07:27 G	30960695.61	30960695.81	30960696.03	0.0088	0.0026
Venus	80056-01-08 20:53 G	30960921.16	30960921.37	30960921.59	0.0088	0.0017
Venus	80056-08-21 10:05 G	30961146.70	30961146.92	30961147.15	0.0088	0.0009



Venus	80057-04-03 23:17 G	30961372.25	30961372.47	30961372.70	0.0088	0.0001
Venus	80057-11-15 12:29 G	30961597.80	30961598.02	30961598.24	0.0088	0.0008
Venus	80058-06-29 01:41 G	30961823.35	30961823.57	30961823.79	0.0088	0.0017
Jupiter	80059-02-05 06:58 G	30962044.27	30962044.79	30962045.33	0.0088	0.0014
Venus	80059-02-09 15:08 G	30962048.92	30962049.13	30962049.34	0.0088	0.0025
Venus	80059-09-23 04:05 G	30962274.47	30962274.67	30962274.89	0.0088	0.0034
Venus	80060-05-05 17:32 G	30962500.03	30962500.23	30962500.42	0.0088	0.0042
Venus	80060-12-17 06:15 G	30962725.60	30962725.76	30962725.96	0.0088	0.0051
Venus	80061-07-30 19:41 G	30962951.17	30962951.32	30962951.49	0.0088	0.0059
Venus	80062-03-13 08:39 G	30963176.74	30963176.86	30963177.02	0.0088	0.0068
Venus	80062-10-24 21:51 G	30963402.32	30963402.41	30963402.54	0.0088	0.0076
Venus	80063-06-07 11:17 G	30963627.91	30963627.97	30963628.03	0.0088	0.0084
Earth	80071-05-03 22:48 G	30966515.38	30966515.45	30966515.59	0.0088	0.0080
Moon	80071-05-04 01:41 G	30966515.48	30966515.57	30966515.72	0.0088	0.0078 *
Moon	80072-05-05 07:41 G	30966882.64	30966882.82	30966883.03	0.0088	0.0058
Earth	80072-05-05 11:03 G	30966882.78	30966882.96	30966883.18	0.0088	0.0057 *
Earth	80073-05-07 23:03 G	30967250.24	30967250.46	30967250.72	0.0088	0.0034
Moon	80073-05-08 02:53 G	30967250.38	30967250.62	30967250.87	0.0088	0.0031 *
Moon	80074-05-10 07:27 G	30967617.57	30967617.81	30967618.08	0.0088	0.0014
Earth	80074-05-10 11:17 G	30967617.72	30967617.97	30967618.24	0.0088	0.0011 *
Earth	80075-05-12 22:48 G	30967985.20	30967985.45	30967985.72	0.0088	0.0013
Moon	80075-05-13 01:41 G	30967985.31	30967985.57	30967985.84	0.0088	0.0014 *
Moon	80076-05-14 08:24 G	30968352.63	30968352.85	30968353.11	0.0088	0.0033
Earth	80076-05-14 11:03 G	30968352.72	30968352.96	30968353.20	0.0088	0.0035 *
Earth	80077-05-16 22:34 G	30968720.26	30968720.44	30968720.65	0.0088	0.0058
Moon	80077-05-16 23:17 G	30968720.29	30968720.47	30968720.68	0.0088	0.0061 *
Earth	80078-05-19 10:05 G	30969087.84	30969087.92	30969088.04	0.0088	0.0081
Moon	80078-05-19 10:34 G	30969087.86	30969087.94	30969088.08	0.0088	0.0079 *
Mercury	80084-05-02 21:22 G	30971263.35	30971263.39	30971263.46	0.0088	0.0081
Mercury	80084-07-29 23:03 G	30971351.40	30971351.46	30971351.55	0.0088	0.0073

Mercury	80084-10-26 00:44 G	30971439.45	30971439.53	30971439.64	0.0088	0.0066
Mercury	80085-01-22 02:24 G	30971527.50	30971527.60	30971527.72	0.0088	0.0058
Mercury	80085-04-20 04:05 G	30971615.56	30971615.67	30971615.80	0.0088	0.0051
Mercury	80085-07-17 06:00 G	30971703.62	30971703.75	30971703.88	0.0088	0.0043
Mercury	80085-10-13 07:27 G	30971791.69	30971791.81	30971791.95	0.0088	0.0036
Mercury	80086-01-09 09:22 G	30971879.75	30971879.89	30971880.03	0.0088	0.0028
Mercury	80086-04-07 11:03 G	30971967.82	30971967.96	30971968.11	0.0088	0.0020
Mercury	80086-07-04 12:44 G	30972055.89	30972056.03	30972056.18	0.0088	0.0013
Mercury	80086-09-30 14:24 G	30972143.96	30972144.10	30972144.25	0.0088	0.0006
Mercury	80086-12-27 16:20 G	30972232.03	30972232.18	30972232.33	0.0088	0.0003
Mercury	80087-03-25 18:00 G	30972320.10	30972320.25	30972320.40	0.0088	0.0011
Mercury	80087-06-21 19:41 G	30972408.18	30972408.32	30972408.47	0.0088	0.0019
Mercury	80087-09-17 21:22 G	30972496.25	30972496.39	30972496.54	0.0088	0.0027
Mercury	80087-12-14 23:03 G	30972584.33	30972584.46	30972584.60	0.0088	0.0035
Mercury	80088-03-12 00:58 G	30972672.41	30972672.54	30972672.67	0.0088	0.0042
Mercury	80088-06-08 02:39 G	30972760.49	30972760.61	30972760.74	0.0088	0.0050
Mercury	80088-09-04 04:20 G	30972848.58	30972848.68	30972848.80	0.0088	0.0058
Mercury	80088-12-01 06:00 G	30972936.67	30972936.75	30972936.86	0.0088	0.0066
Mercury	80089-02-27 07:56 G	30973024.76	30973024.83	30973024.92	0.0088	0.0074
Mercury	80089-05-26 09:36 G	30973112.86	30973112.90	30973112.96	0.0088	0.0082
Mars	80105-07-11 12:00 G	30979001.71	30979002.00	30979002.30	0.0088	0.0009
Venus	80134-06-12 06:29 G	30989564.73	30989564.77	30989564.85	0.0089	0.0085
Venus	80135-01-23 19:12 G	30989790.21	30989790.30	30989790.43	0.0089	0.0077
Venus	80135-09-06 08:10 G	30990015.72	30990015.84	30990015.99	0.0089	0.0068
Venus	80136-04-18 21:08 G	30990241.23	30990241.38	30990241.55	0.0089	0.0060
Venus	80136-11-30 09:36 G	30990466.74	30990466.90	30990467.10	0.0089	0.0052
Venus	80137-07-13 22:48 G	30990692.27	30990692.45	30990692.65	0.0089	0.0043
Venus	80138-02-24 11:46 G	30990917.80	30990917.99	30990918.20	0.0089	0.0034
Venus	80138-10-08 00:29 G	30991143.32	30991143.52	30991143.74	0.0089	0.0025
Venus	80139-05-21 13:12 G	30991368.85	30991369.05	30991369.27	0.0089	0.0017

Venus	80140-01-02 02:10 G	30991594.38	30991594.59	30991594.81	0.0089	0.0008
Venus	80140-08-14 15:08 G	30991819.91	30991820.13	30991820.35	0.0089	0.0001
Venus	80141-03-28 03:51 G	30992045.45	30992045.66	30992045.88	0.0089	0.0010
Venus	80141-11-08 16:34 G	30992270.98	30992271.19	30992271.41	0.0089	0.0019
Venus	80142-06-22 05:17 G	30992496.52	30992496.72	30992496.94	0.0089	0.0028
Venus	80143-02-02 18:00 G	30992722.06	30992722.25	30992722.46	0.0089	0.0037
Venus	80143-09-16 06:44 G	30992947.61	30992947.78	30992947.98	0.0089	0.0045
Venus	80144-04-28 19:41 G	30993173.16	30993173.32	30993173.50	0.0089	0.0054
Venus	80144-12-10 08:24 G	30993398.71	30993398.85	30993399.02	0.0089	0.0063
Venus	80145-07-23 21:08 G	30993624.27	30993624.38	30993624.53	0.0089	0.0072
Venus	80146-03-06 10:20 G	30993849.84	30993849.93	30993850.04	0.0089	0.0080
Venus	80146-10-17 22:48 G	30994075.44	30994075.45	30994075.51	0.0089	0.0089
Moon	80153-11-04 18:15 G	30996650.17	30996650.26	30996650.35	0.0090	0.0084
Earth	80153-11-04 20:24 G	30996650.29	30996650.35	30996650.47	0.0090	0.0084 *
Earth	80154-11-07 08:10 G	30997017.67	30997017.84	30997018.04	0.0090	0.0060
Moon	80154-11-07 11:32 G	30997017.82	30997017.98	30997018.19	0.0090	0.0060 *
Moon	80155-11-09 16:20 G	30997384.97	30997385.18	30997385.42	0.0090	0.0038
Earth	80155-11-09 19:41 G	30997385.10	30997385.32	30997385.57	0.0090	0.0037 *
Earth	80156-11-11 06:58 G	30997752.55	30997752.79	30997753.05	0.0090	0.0013
Moon	80156-11-11 10:20 G	30997752.68	30997752.93	30997753.19	0.0090	0.0013 *
Moon	80157-11-13 16:20 G	30998119.93	30998120.18	30998120.43	0.0090	0.0011
Earth	80157-11-13 18:29 G	30998120.03	30998120.27	30998120.53	0.0090	0.0012 *
Earth	80158-11-16 05:46 G	30998487.52	30998487.74	30998487.99	0.0090	0.0036
Moon	80158-11-16 06:44 G	30998487.56	30998487.78	30998488.04	0.0090	0.0036 *
Moon	80159-11-18 16:34 G	30998855.04	30998855.19	30998855.40	0.0090	0.0060
Earth	80159-11-18 17:17 G	30998855.04	30998855.22	30998855.42	0.0090	0.0059 *
Moon	80160-11-20 03:08 G	30999222.56	30999222.63	30999222.76	0.0090	0.0083
Earth	80160-11-20 04:20 G	30999222.61	30999222.68	30999222.80	0.0090	0.0083 *
Mercury	80166-11-09 19:41 G	31001403.29	31001403.32	31001403.38	0.0090	0.0086
Mercury	80167-02-05 22:34 G	31001491.36	31001491.44	31001491.54	0.0090	0.0076

Mercury	80167-05-05 01:12 G	31001579.45	31001579.55	31001579.68	0.0090	0.0067
Mercury	80167-08-01 03:51 G	31001667.54	31001667.66	31001667.81	0.0090	0.0057
Mercury	80167-10-28 06:44 G	31001755.64	31001755.78	31001755.94	0.0090	0.0047
Mercury	80168-01-24 09:36 G	31001843.75	31001843.90	31001844.06	0.0090	0.0037
Mercury	80168-04-21 12:15 G	31001931.85	31001932.01	31001932.18	0.0090	0.0028
Mercury	80168-07-18 15:08 G	31002019.96	31002020.13	31002020.29	0.0090	0.0018
Mercury	80168-10-14 17:46 G	31002108.07	31002108.24	31002108.41	0.0090	0.0008
Mercury	80169-01-10 20:24 G	31002196.18	31002196.35	31002196.52	0.0090	0.0001
Mercury	80169-04-08 23:03 G	31002284.29	31002284.46	31002284.63	0.0090	0.0011
Mercury	80169-07-06 01:27 G	31002372.40	31002372.56	31002372.73	0.0090	0.0021
Mercury	80169-10-02 04:05 G	31002460.52	31002460.67	31002460.84	0.0090	0.0030
Mercury	80169-12-29 06:44 G	31002548.64	31002548.78	31002548.94	0.0090	0.0039
Mercury	80170-03-27 09:08 G	31002636.75	31002636.88	31002637.04	0.0090	0.0049
Mercury	80170-06-23 11:46 G	31002724.88	31002724.99	31002725.13	0.0090	0.0058
Mercury	80170-09-19 14:39 G	31002813.00	31002813.11	31002813.22	0.0090	0.0067
Mercury	80170-12-16 16:48 G	31002901.13	31002901.20	31002901.30	0.0090	0.0077
Mercury	80171-03-14 19:27 G	31002989.28	31002989.31	31002989.37	0.0090	0.0086
Mars	80187-04-04 09:51 G	31008853.62	31008853.91	31008854.25	0.0089	0.0031
Venus	80215-12-17 07:41 G	31019336.75	31019336.82	31019336.93	0.0088	0.0081
Venus	80216-07-29 20:53 G	31019562.27	31019562.37	31019562.52	0.0088	0.0072
Venus	80217-03-12 10:20 G	31019787.79	31019787.93	31019788.10	0.0088	0.0063
Venus	80217-10-23 23:17 G	31020013.32	31020013.47	31020013.67	0.0088	0.0055
Venus	80218-06-06 12:44 G	31020238.86	31020239.03	31020239.23	0.0088	0.0046
Venus	80219-01-18 02:24 G	31020464.40	31020464.60	31020464.80	0.0088	0.0038
Venus	80219-08-31 15:22 G	31020689.94	31020690.14	31020690.36	0.0088	0.0029
Venus	80220-04-13 04:48 G	31020915.48	31020915.70	31020915.91	0.0088	0.0020
Venus	80220-11-24 17:46 G	31021141.03	31021141.24	31021141.47	0.0088	0.0012
Venus	80221-07-08 07:12 G	31021366.57	31021366.80	31021367.02	0.0088	0.0003
Venus	80222-02-18 20:24 G	31021592.13	31021592.35	31021592.57	0.0088	0.0005
Venus	80222-10-02 09:36 G	31021817.68	31021817.90	31021818.12	0.0088	0.0014

Venus	80223-05-15 22:34 G	31022043.24	31022043.44	31022043.67	0.0088	0.0023
Venus	80223-12-27 12:00 G	31022268.80	31022269.00	31022269.21	0.0088	0.0031
Venus	80224-08-09 00:58 G	31022494.36	31022494.54	31022494.76	0.0088	0.0040
Venus	80225-03-22 14:39 G	31022719.92	31022720.11	31022720.29	0.0088	0.0048
Jupiter	80225-04-06 16:05 G	31022734.96	31022735.17	31022735.50	0.0088	0.0076
Venus	80225-11-03 03:22 G	31022945.49	31022945.64	31022945.83	0.0088	0.0057
Venus	80226-06-16 16:48 G	31023171.06	31023171.20	31023171.36	0.0088	0.0065
Venus	80227-01-28 05:46 G	31023396.65	31023396.74	31023396.89	0.0088	0.0074
Venus	80227-09-10 19:12 G	31023622.24	31023622.30	31023622.39	0.0088	0.0082
Moon	80235-05-05 00:58 G	31026415.48	31026415.54	31026415.63	0.0088	0.0084
Earth	80236-05-06 16:34 G	31026783.03	31026783.19	31026783.37	0.0088	0.0066
Moon	80236-05-06 19:56 G	31026783.20	31026783.33	31026783.51	0.0088	0.0071 *
Moon	80237-05-09 01:41 G	31027150.34	31027150.57	31027150.80	0.0088	0.0039
Earth	80237-05-09 04:20 G	31027150.48	31027150.68	31027150.93	0.0088	0.0044 *
Earth	80238-05-11 16:20 G	31027517.94	31027518.18	31027518.45	0.0088	0.0021
Moon	80238-05-11 19:12 G	31027518.05	31027518.30	31027518.56	0.0088	0.0025 *
Moon	80239-05-14 03:36 G	31027885.40	31027885.65	31027885.90	0.0088	0.0007
Earth	80239-05-14 04:34 G	31027885.43	31027885.69	31027885.95	0.0088	0.0002 *
Earth	80240-05-15 16:05 G	31028252.94	31028253.17	31028253.44	0.0088	0.0026
Moon	80240-05-15 16:34 G	31028252.94	31028253.19	31028253.46	0.0088	0.0022 *
Earth	80241-05-18 04:20 G	31028620.46	31028620.68	31028620.90	0.0088	0.0048
Moon	80241-05-18 04:48 G	31028620.52	31028620.70	31028620.92	0.0088	0.0053 *
Moon	80242-05-20 12:58 G	31028987.89	31028988.04	31028988.24	0.0088	0.0067
Earth	80242-05-20 15:51 G	31028988.02	31028988.16	31028988.33	0.0088	0.0071 *
Mercury	80248-11-02 18:29 G	31031346.26	31031346.27	31031346.32	0.0088	0.0086
Mercury	80249-01-29 20:24 G	31031434.29	31031434.35	31031434.42	0.0088	0.0078
Mercury	80249-04-27 21:51 G	31031522.34	31031522.41	31031522.51	0.0088	0.0071
Mercury	80249-07-24 23:46 G	31031610.39	31031610.49	31031610.59	0.0088	0.0063
Mercury	80249-10-21 01:12 G	31031698.45	31031698.55	31031698.67	0.0088	0.0056
Mercury	80250-01-17 03:08 G	31031786.51	31031786.63	31031786.75	0.0088	0.0048

Mercury	80250-04-15 04:34 G	31031874.57	31031874.69	31031874.83	0.0088	0.0041
Mercury	80250-07-12 06:29 G	31031962.64	31031962.77	31031962.91	0.0088	0.0033
Mercury	80250-10-08 08:10 G	31032050.70	31032050.84	31032050.98	0.0088	0.0025
Mercury	80251-01-04 09:51 G	31032138.77	31032138.91	31032139.06	0.0088	0.0018
Mercury	80251-04-02 11:32 G	31032226.84	31032226.98	31032227.13	0.0088	0.0010
Mercury	80251-06-29 13:27 G	31032314.91	31032315.06	31032315.20	0.0088	0.0003
Mercury	80251-09-25 15:08 G	31032402.98	31032403.13	31032403.28	0.0088	0.0006
Mercury	80251-12-22 16:48 G	31032491.05	31032491.20	31032491.35	0.0088	0.0013
Mercury	80252-03-19 18:29 G	31032579.13	31032579.27	31032579.42	0.0088	0.0021
Mercury	80252-06-15 20:10 G	31032667.21	31032667.34	31032667.48	0.0088	0.0029
Mercury	80252-09-11 21:51 G	31032755.28	31032755.41	31032755.55	0.0088	0.0037
Mercury	80252-12-08 23:32 G	31032843.36	31032843.48	31032843.62	0.0088	0.0045
Mercury	80253-03-07 01:12 G	31032931.45	31032931.55	31032931.68	0.0088	0.0053
Mercury	80253-06-03 03:08 G	31033019.53	31033019.63	31033019.74	0.0088	0.0061
Mercury	80253-08-30 04:48 G	31033107.62	31033107.70	31033107.80	0.0088	0.0069
Mercury	80253-11-26 06:29 G	31033195.71	31033195.77	31033195.86	0.0088	0.0077
Mercury	80254-02-22 08:10 G	31033283.82	31033283.84	31033283.90	0.0088	0.0085
Mars	80269-02-24 14:24 G	31038764.91	31038765.10	31038765.31	0.0088	0.0065
Mars	80271-01-19 13:41 G	31039458.88	31039459.07	31039459.27	0.0088	0.0066
Venus	80298-09-14 15:36 G	31049559.14	31049559.15	31049559.18	0.0089	0.0088
Venus	80299-04-28 04:05 G	31049784.60	31049784.67	31049784.78	0.0089	0.0080
Venus	80299-12-09 17:03 G	31050010.09	31050010.21	31050010.35	0.0089	0.0072
Venus	80300-07-23 05:46 G	31050235.61	31050235.74	31050235.92	0.0089	0.0063
Venus	80301-03-05 18:44 G	31050461.12	31050461.28	31050461.47	0.0089	0.0054
Venus	80301-10-17 07:41 G	31050686.64	31050686.82	31050687.02	0.0089	0.0046
Venus	80302-05-30 20:24 G	31050912.16	31050912.35	31050912.56	0.0089	0.0037
Venus	80303-01-11 09:22 G	31051137.69	31051137.89	31051138.10	0.0089	0.0028
Venus	80303-08-24 22:20 G	31051363.22	31051363.43	31051363.65	0.0089	0.0019
Venus	80304-04-06 11:17 G	31051588.75	31051588.97	31051589.18	0.0089	0.0011
Venus	80304-11-18 00:00 G	31051814.28	31051814.50	31051814.72	0.0089	0.0002

Venus	80305-07-01 12:44 G	31052039.82	31052040.03	31052040.25	0.0089	0.0008
Venus	80306-02-12 01:27 G	31052265.36	31052265.56	31052265.79	0.0089	0.0017
Venus	80306-09-25 14:24 G	31052490.89	31052491.10	31052491.31	0.0089	0.0025
Venus	80307-05-09 03:08 G	31052716.43	31052716.63	31052716.83	0.0089	0.0033
Venus	80307-12-20 15:36 G	31052941.97	31052942.15	31052942.36	0.0089	0.0043
Venus	80308-08-02 04:20 G	31053167.53	31053167.68	31053167.88	0.0089	0.0052
Venus	80309-03-15 17:32 G	31053393.08	31053393.23	31053393.40	0.0089	0.0060
Venus	80309-10-27 06:00 G	31053618.63	31053618.75	31053618.91	0.0089	0.0069
Venus	80310-06-09 19:12 G	31053844.19	31053844.30	31053844.41	0.0089	0.0077
Venus	80311-01-21 07:41 G	31054069.78	31054069.82	31054069.90	0.0089	0.0086
Moon	80317-11-06 05:32 G	31056550.73	31056550.73	31056550.77	0.0090	0.0089
Moon	80318-11-08 10:34 G	31056917.81	31056917.94	31056918.08	0.0090	0.0075
Earth	80318-11-08 14:10 G	31056917.93	31056918.09	31056918.25	0.0090	0.0070 *
Earth	80319-11-11 00:58 G	31057285.34	31057285.54	31057285.77	0.0090	0.0047
Moon	80319-11-11 03:51 G	31057285.44	31057285.66	31057285.90	0.0090	0.0042 *
Moon	80320-11-12 10:48 G	31057652.73	31057652.95	31057653.20	0.0090	0.0028
Earth	80320-11-12 12:44 G	31057652.79	31057653.03	31057653.28	0.0090	0.0023 *
Earth	80321-11-15 00:15 G	31058020.25	31058020.51	31058020.76	0.0090	0.0001
Moon	80321-11-15 00:58 G	31058020.28	31058020.54	31058020.81	0.0090	0.0005 *
Earth	80322-11-17 11:17 G	31058387.74	31058387.97	31058388.22	0.0090	0.0025
Moon	80322-11-17 12:29 G	31058387.78	31058388.02	31058388.26	0.0090	0.0020 *
Moon	80323-11-19 21:08 G	31058755.17	31058755.38	31058755.59	0.0090	0.0052
Earth	80323-11-19 22:48 G	31058755.24	31058755.45	31058755.67	0.0090	0.0048 *
Earth	80324-11-21 09:36 G	31059122.77	31059122.90	31059123.07	0.0090	0.0072
Moon	80324-11-21 12:29 G	31059122.87	31059123.02	31059123.20	0.0090	0.0067 *
Mercury	80331-08-08 17:17 G	31061574.18	31061574.22	31061574.30	0.0090	0.0084
Mercury	80331-11-04 20:10 G	31061662.26	31061662.34	31061662.45	0.0090	0.0074
Mercury	80332-01-31 23:03 G	31061750.35	31061750.46	31061750.59	0.0090	0.0064
Mercury	80332-04-29 01:56 G	31061838.45	31061838.58	31061838.72	0.0090	0.0054
Mercury	80332-07-26 04:34 G	31061926.55	31061926.69	31061926.85	0.0090	0.0045

Mercury	80332-10-22 07:27 G	31062014.66	31062014.81	31062014.97	0.0090	0.0035
Mercury	80333-01-18 10:05 G	31062102.76	31062102.92	31062103.09	0.0090	0.0025
Mercury	80333-04-16 12:44 G	31062190.87	31062191.03	31062191.21	0.0090	0.0016
Mercury	80333-07-13 15:36 G	31062278.98	31062279.15	31062279.32	0.0090	0.0006
Mercury	80333-10-09 18:15 G	31062367.09	31062367.26	31062367.43	0.0090	0.0004
Mercury	80334-01-05 20:53 G	31062455.21	31062455.37	31062455.54	0.0090	0.0013
Mercury	80334-04-03 23:32 G	31062543.32	31062543.48	31062543.65	0.0090	0.0023
Mercury	80334-07-01 01:56 G	31062631.43	31062631.58	31062631.75	0.0090	0.0033
Mercury	80334-09-27 04:34 G	31062719.55	31062719.69	31062719.85	0.0090	0.0042
Mercury	80334-12-24 07:27 G	31062807.67	31062807.81	31062807.95	0.0090	0.0051
Mercury	80335-03-22 09:36 G	31062895.80	31062895.90	31062896.04	0.0090	0.0061
Mercury	80335-06-18 12:15 G	31062983.92	31062984.01	31062984.13	0.0090	0.0070
Mercury	80335-09-14 15:08 G	31063072.06	31063072.13	31063072.21	0.0090	0.0079
Mercury	80335-12-11 17:46 G	31063160.21	31063160.24	31063160.27	0.0090	0.0088
Mars	80350-11-17 20:39 G	31068615.09	31068615.36	31068615.68	0.0089	0.0039
Venus	80380-03-20 15:51 G	31079331.11	31079331.16	31079331.25	0.0088	0.0084
Venus	80380-11-01 04:48 G	31079556.61	31079556.70	31079556.84	0.0088	0.0076
Venus	80381-06-14 18:29 G	31079782.13	31079782.27	31079782.43	0.0088	0.0066
Venus	80382-01-26 07:41 G	31080007.67	31080007.82	31080008.00	0.0088	0.0058
Venus	80382-09-08 21:08 G	31080233.20	31080233.38	31080233.57	0.0088	0.0049
Venus	80383-04-22 10:34 G	31080458.74	31080458.94	31080459.13	0.0088	0.0041
Venus	80383-12-03 23:17 G	31080684.28	31080684.47	31080684.69	0.0088	0.0033
Venus	80384-07-16 12:44 G	31080909.82	31080910.03	31080910.25	0.0088	0.0024
Venus	80385-02-27 01:56 G	31081135.37	31081135.58	31081135.81	0.0088	0.0015
Venus	80385-10-10 15:22 G	31081360.92	31081361.14	31081361.36	0.0088	0.0006
Venus	80386-05-24 04:20 G	31081586.46	31081586.68	31081586.91	0.0088	0.0004
Venus	80387-01-04 17:46 G	31081812.02	31081812.24	31081812.46	0.0088	0.0011
Venus	80387-08-18 06:44 G	31082037.57	31082037.78	31082038.01	0.0088	0.0020
Venus	80388-03-30 19:41 G	31082263.13	31082263.32	31082263.55	0.0088	0.0029
Venus	80388-11-11 09:08 G	31082488.68	31082488.88	31082489.09	0.0088	0.0037



Venus	80389-06-24 22:05 G	31082714.25	31082714.42	31082714.63	0.0088	0.0046
Venus	80390-02-05 11:46 G	31082939.82	31082939.99	31082940.17	0.0088	0.0054
Venus	80390-09-19 00:44 G	31083165.39	31083165.53	31083165.70	0.0088	0.0063
Venus	80391-05-02 13:56 G	31083390.96	31083391.08	31083391.22	0.0088	0.0071
Venus	80391-12-14 02:53 G	31083616.55	31083616.62	31083616.74	0.0088	0.0080
Moon	80400-05-06 19:27 G	31086683.19	31086683.31	31086683.45	0.0088	0.0075
Earth	80400-05-06 22:20 G	31086683.30	31086683.43	31086683.57	0.0088	0.0075 *
Earth	80401-05-09 09:36 G	31087050.71	31087050.90	31087051.13	0.0088	0.0053
Moon	80401-05-09 11:46 G	31087050.78	31087050.99	31087051.21	0.0088	0.0053 *
Moon	80402-05-11 20:53 G	31087418.14	31087418.37	31087418.62	0.0088	0.0029
Earth	80402-05-11 21:51 G	31087418.17	31087418.41	31087418.66	0.0088	0.0030 *
Moon	80403-05-14 08:53 G	31087785.61	31087785.87	31087786.15	0.0088	0.0008
Earth	80403-05-14 10:05 G	31087785.66	31087785.92	31087786.18	0.0088	0.0007 *
Earth	80404-05-15 21:51 G	31088153.16	31088153.41	31088153.67	0.0088	0.0016
Moon	80404-05-15 23:32 G	31088153.24	31088153.48	31088153.74	0.0088	0.0017 *
Moon	80405-05-18 07:27 G	31088520.57	31088520.81	31088521.05	0.0088	0.0037
Earth	80405-05-18 09:36 G	31088520.68	31088520.90	31088521.15	0.0088	0.0039 *
Earth	80406-05-20 21:08 G	31088888.22	31088888.38	31088888.60	0.0088	0.0062
Moon	80406-05-21 00:44 G	31088888.38	31088888.53	31088888.74	0.0088	0.0063 *
Moon	80407-05-23 06:00 G	31089255.69	31089255.75	31089255.85	0.0088	0.0083
Earth	80407-05-23 09:36 G	31089255.84	31089255.90	31089255.99	0.0088	0.0084 *
Mercury	80413-07-31 17:32 G	31091517.20	31091517.23	31091517.29	0.0088	0.0083
Mercury	80413-10-27 19:27 G	31091605.24	31091605.31	31091605.39	0.0088	0.0075
Mercury	80414-01-23 20:53 G	31091693.29	31091693.37	31091693.47	0.0088	0.0068
Mercury	80414-04-21 22:48 G	31091781.35	31091781.45	31091781.56	0.0088	0.0060
Mercury	80414-07-19 00:15 G	31091869.41	31091869.51	31091869.64	0.0088	0.0053
Mercury	80414-10-15 02:10 G	31091957.47	31091957.59	31091957.71	0.0088	0.0045
Mercury	80415-01-11 03:36 G	31092045.53	31092045.65	31092045.79	0.0088	0.0038
Mercury	80415-04-09 05:32 G	31092133.59	31092133.73	31092133.87	0.0088	0.0030
Mercury	80415-07-06 06:58 G	31092221.66	31092221.79	31092221.94	0.0088	0.0023

Mercury	80415-10-02 08:53 G	31092309.73	31092309.87	31092310.01	0.0088	0.0015
Mercury	80415-12-29 10:34 G	31092397.79	31092397.94	31092398.09	0.0088	0.0007
Mercury	80416-03-26 12:15 G	31092485.86	31092486.01	31092486.16	0.0088	0.0001
Mercury	80416-06-22 13:56 G	31092573.94	31092574.08	31092574.23	0.0088	0.0009
Mercury	80416-09-18 15:36 G	31092662.01	31092662.15	31092662.30	0.0088	0.0017
Mercury	80416-12-15 17:17 G	31092750.09	31092750.22	31092750.37	0.0088	0.0024
Mercury	80417-03-13 19:12 G	31092838.16	31092838.30	31092838.44	0.0088	0.0032
Mercury	80417-06-09 20:53 G	31092926.24	31092926.37	31092926.50	0.0088	0.0040
Mercury	80417-09-05 22:34 G	31093014.32	31093014.44	31093014.57	0.0088	0.0048
Mercury	80417-12-03 00:15 G	31093102.40	31093102.51	31093102.63	0.0088	0.0056
Mercury	80418-03-01 01:56 G	31093190.49	31093190.58	31093190.69	0.0088	0.0064
Mercury	80418-05-28 03:36 G	31093278.58	31093278.65	31093278.75	0.0088	0.0072
Mercury	80418-08-24 05:17 G	31093366.68	31093366.72	31093366.80	0.0088	0.0080
Mercury	80418-11-20 07:12 G	31093454.80	31093454.80	31093454.83	0.0088	0.0088
Mars	80434-09-04 17:17 G	31099221.92	31099222.22	31099222.52	0.0088	0.0011
Venus	80463-07-31 13:27 G	31109779.00	31109779.06	31109779.16	0.0089	0.0083
Venus	80464-03-13 02:39 G	31110004.49	31110004.61	31110004.73	0.0089	0.0074
Venus	80464-10-24 14:53 G	31110230.00	31110230.12	31110230.29	0.0089	0.0066
Venus	80465-06-07 03:51 G	31110455.51	31110455.66	31110455.84	0.0089	0.0057
Venus	80466-01-18 16:48 G	31110681.02	31110681.20	31110681.39	0.0089	0.0049
Venus	80466-09-01 05:17 G	31110906.55	31110906.72	31110906.93	0.0089	0.0041
Venus	80467-04-14 18:15 G	31111132.07	31111132.26	31111132.48	0.0089	0.0031
Venus	80467-11-26 07:12 G	31111357.60	31111357.80	31111358.02	0.0089	0.0022
Venus	80468-07-08 20:10 G	31111583.13	31111583.34	31111583.56	0.0089	0.0014
Venus	80469-02-19 09:08 G	31111808.66	31111808.88	31111809.10	0.0089	0.0005
Venus	80469-10-02 21:51 G	31112034.20	31112034.41	31112034.63	0.0089	0.0005
Venus	80470-05-16 10:34 G	31112259.73	31112259.94	31112260.16	0.0089	0.0013
Venus	80470-12-27 23:17 G	31112485.27	31112485.47	31112485.69	0.0089	0.0022
Venus	80471-08-10 12:29 G	31112710.82	31112711.02	31112711.22	0.0089	0.0031
Venus	80472-03-23 00:58 G	31112936.36	31112936.54	31112936.75	0.0089	0.0040

Venus	80472-11-03 13:41 G	31113161.90	31113162.07	31113162.27	0.0089	0.0049
Venus	80473-06-17 02:24 G	31113387.45	31113387.60	31113387.79	0.0089	0.0057
Venus	80474-01-28 15:22 G	31113613.01	31113613.14	31113613.30	0.0089	0.0066
Venus	80474-09-11 04:05 G	31113838.57	31113838.67	31113838.81	0.0089	0.0075
Venus	80475-04-24 16:48 G	31114064.14	31114064.20	31114064.30	0.0089	0.0083
Earth	80482-11-07 20:10 G	31116818.25	31116818.34	31116818.47	0.0090	0.0080
Moon	80482-11-07 22:34 G	31116818.36	31116818.44	31116818.58	0.0090	0.0082 *
Moon	80483-11-10 07:12 G	31117185.60	31117185.80	31117185.99	0.0090	0.0054
Earth	80483-11-10 07:41 G	31117185.64	31117185.82	31117186.04	0.0090	0.0057 *
Moon	80484-11-11 19:12 G	31117553.06	31117553.30	31117553.55	0.0090	0.0035
Earth	80484-11-11 19:12 G	31117553.08	31117553.30	31117553.55	0.0090	0.0033 *
Earth	80485-11-14 06:44 G	31117920.53	31117920.78	31117921.04	0.0090	0.0010
Moon	80485-11-14 07:41 G	31117920.58	31117920.82	31117921.07	0.0090	0.0008 *
Moon	80486-11-16 15:36 G	31118287.89	31118288.15	31118288.41	0.0090	0.0012
Earth	80486-11-16 18:00 G	31118288.01	31118288.25	31118288.51	0.0090	0.0015 *
Earth	80487-11-19 05:03 G	31118655.50	31118655.71	31118655.96	0.0090	0.0038
Moon	80487-11-19 08:10 G	31118655.63	31118655.84	31118656.08	0.0090	0.0040 *
Moon	80488-11-20 12:58 G	31119022.86	31119023.04	31119023.24	0.0090	0.0060
Earth	80488-11-20 16:05 G	31119023.02	31119023.17	31119023.39	0.0090	0.0062 *
Earth	80489-11-23 03:36 G	31119390.59	31119390.65	31119390.75	0.0090	0.0085
Moon	80489-11-23 06:58 G	31119390.75	31119390.79	31119390.88	0.0090	0.0087 *
Mercury	80496-05-04 15:22 G	31121745.08	31121745.14	31121745.23	0.0090	0.0081
Mercury	80496-07-31 18:15 G	31121833.17	31121833.26	31121833.38	0.0090	0.0071
Mercury	80496-10-27 21:08 G	31121921.26	31121921.38	31121921.51	0.0090	0.0061
Mercury	80497-01-24 00:00 G	31122009.36	31122009.50	31122009.64	0.0090	0.0051
Mercury	80497-04-22 02:39 G	31122097.47	31122097.61	31122097.77	0.0090	0.0041
Mercury	80497-07-19 05:17 G	31122185.57	31122185.72	31122185.89	0.0090	0.0032
Mercury	80497-10-15 08:10 G	31122273.68	31122273.84	31122274.01	0.0090	0.0022
Mercury	80498-01-11 10:48 G	31122361.79	31122361.95	31122362.13	0.0090	0.0013
Mercury	80498-04-09 13:41 G	31122449.90	31122450.07	31122450.24	0.0090	0.0003

Mercury	80498-07-06 16:20 G	31122538.01	31122538.18	31122538.35	0.0090	0.0007
Mercury	80498-10-02 18:58 G	31122626.12	31122626.29	31122626.46	0.0090	0.0016
Mercury	80498-12-29 21:36 G	31122714.24	31122714.40	31122714.56	0.0090	0.0026
Mercury	80499-03-28 00:00 G	31122802.36	31122802.50	31122802.67	0.0090	0.0036
Mercury	80499-06-24 02:39 G	31122890.48	31122890.61	31122890.77	0.0090	0.0045
Mercury	80499-09-20 05:32 G	31122978.60	31122978.73	31122978.86	0.0090	0.0054
Mercury	80499-12-17 07:56 G	31123066.72	31123066.83	31123066.96	0.0090	0.0064
Mercury	80500-03-15 10:34 G	31123154.85	31123154.94	31123155.04	0.0090	0.0073
Mercury	80500-06-11 13:12 G	31123242.99	31123243.05	31123243.12	0.0090	0.0082
Mars	80516-05-28 05:17 G	31129072.44	31129072.72	31129073.00	0.0089	0.0048
Venus	80544-06-23 00:00 G	31139325.47	31139325.50	31139325.55	0.0088	0.0087
Venus	80545-02-03 13:12 G	31139550.97	31139551.05	31139551.17	0.0088	0.0078
Venus	80545-09-17 02:39 G	31139776.49	31139776.61	31139776.76	0.0088	0.0070
Venus	80546-04-30 15:36 G	31140002.02	31140002.15	31140002.33	0.0088	0.0062
Venus	80546-12-12 05:17 G	31140227.55	31140227.72	31140227.91	0.0088	0.0052
Venus	80547-07-25 18:44 G	31140453.09	31140453.28	31140453.48	0.0088	0.0044
Venus	80548-03-07 07:41 G	31140678.63	31140678.82	31140679.04	0.0088	0.0036
Venus	80548-10-18 21:08 G	31140904.18	31140904.38	31140904.60	0.0088	0.0026
Venus	80549-06-01 10:34 G	31141129.72	31141129.94	31141130.16	0.0088	0.0018
Venus	80550-01-12 23:46 G	31141355.27	31141355.49	31141355.72	0.0088	0.0009
Venus	80550-08-26 12:58 G	31141580.82	31141581.04	31141581.27	0.0088	0.0002
Venus	80551-04-09 02:10 G	31141806.37	31141806.59	31141806.81	0.0088	0.0009
Venus	80551-11-20 15:22 G	31142031.92	31142032.14	31142032.36	0.0088	0.0017
Venus	80552-07-03 04:20 G	31142257.48	31142257.68	31142257.90	0.0088	0.0026
Venus	80553-02-13 17:32 G	31142483.04	31142483.23	31142483.45	0.0088	0.0035
Venus	80553-09-27 06:58 G	31142708.60	31142708.79	31142708.99	0.0088	0.0043
Venus	80554-05-10 19:56 G	31142934.17	31142934.33	31142934.52	0.0088	0.0052
Venus	80554-12-22 09:22 G	31143159.73	31143159.89	31143160.06	0.0088	0.0060
Venus	80555-08-04 22:20 G	31143385.31	31143385.43	31143385.58	0.0088	0.0069
Venus	80556-03-17 11:17 G	31143610.90	31143610.97	31143611.10	0.0088	0.0078

Venus	80556-10-29 00:44 G	31143836.51	31143836.53	31143836.60	0.0088	0.0086
Earth	80564-05-07 03:51 G	31146583.61	31146583.66	31146583.76	0.0088	0.0084
Moon	80564-05-07 05:03 G	31146583.62	31146583.71	31146583.85	0.0088	0.0079 *
Earth	80565-05-09 15:36 G	31146950.99	31146951.15	31146951.36	0.0088	0.0062
Moon	80565-05-09 16:05 G	31146951.02	31146951.17	31146951.35	0.0088	0.0066 *
Moon	80566-05-12 02:24 G	31147318.37	31147318.60	31147318.87	0.0088	0.0035
Earth	80566-05-12 03:36 G	31147318.43	31147318.65	31147318.90	0.0088	0.0039 *
Earth	80567-05-14 15:51 G	31147685.90	31147686.16	31147686.42	0.0088	0.0016
Moon	80567-05-14 18:15 G	31147686.01	31147686.26	31147686.51	0.0088	0.0021 *
Moon	80568-05-16 00:29 G	31148053.26	31148053.52	31148053.78	0.0088	0.0011
Earth	80568-05-16 03:36 G	31148053.40	31148053.65	31148053.92	0.0088	0.0007 *
Earth	80569-05-18 15:08 G	31148420.90	31148421.13	31148421.39	0.0088	0.0030
Moon	80569-05-18 18:44 G	31148421.04	31148421.28	31148421.54	0.0088	0.0025 *
Moon	80570-05-20 23:46 G	31148788.30	31148788.49	31148788.70	0.0088	0.0057
Earth	80570-05-21 03:22 G	31148788.44	31148788.64	31148788.87	0.0088	0.0052 *
Earth	80571-05-23 15:08 G	31149156.02	31149156.13	31149156.29	0.0088	0.0075
Moon	80571-05-23 18:15 G	31149156.12	31149156.26	31149156.44	0.0088	0.0070 *
Mercury	80578-01-30 15:08 G	31151600.12	31151600.13	31151600.16	0.0088	0.0087
Mercury	80578-04-28 16:34 G	31151688.15	31151688.19	31151688.27	0.0088	0.0080
Mercury	80578-07-25 18:29 G	31151776.19	31151776.27	31151776.36	0.0088	0.0072
Mercury	80578-10-21 19:56 G	31151864.25	31151864.33	31151864.44	0.0088	0.0065
Mercury	80579-01-17 21:51 G	31151952.30	31151952.41	31151952.52	0.0088	0.0057
Mercury	80579-04-15 23:17 G	31152040.36	31152040.47	31152040.60	0.0088	0.0050
Mercury	80579-07-13 01:12 G	31152128.42	31152128.55	31152128.68	0.0088	0.0042
Mercury	80579-10-09 02:39 G	31152216.48	31152216.61	31152216.75	0.0088	0.0035
Mercury	80580-01-05 04:34 G	31152304.55	31152304.69	31152304.83	0.0088	0.0027
Mercury	80580-04-02 06:00 G	31152392.62	31152392.75	31152392.90	0.0088	0.0020
Mercury	80580-06-29 07:56 G	31152480.68	31152480.83	31152480.97	0.0088	0.0011
Mercury	80580-09-25 09:36 G	31152568.75	31152568.90	31152569.05	0.0088	0.0004
Mercury	80580-12-22 11:17 G	31152656.82	31152656.97	31152657.12	0.0088	0.0004

Mercury	80581-03-20 12:58 G	31152744.89	31152745.04	31152745.19	0.0088	0.0012
Mercury	80581-06-16 14:39 G	31152832.97	31152833.11	31152833.26	0.0088	0.0019
Mercury	80581-09-12 16:20 G	31152921.04	31152921.18	31152921.32	0.0088	0.0027
Mercury	80581-12-09 18:15 G	31153009.12	31153009.26	31153009.39	0.0088	0.0035
Mercury	80582-03-07 19:56 G	31153097.20	31153097.33	31153097.46	0.0088	0.0043
Mercury	80582-06-03 21:36 G	31153185.28	31153185.40	31153185.52	0.0088	0.0051
Mercury	80582-08-30 23:17 G	31153273.36	31153273.47	31153273.58	0.0088	0.0059
Mercury	80582-11-27 00:58 G	31153361.45	31153361.54	31153361.64	0.0088	0.0067
Mercury	80583-02-23 02:39 G	31153449.55	31153449.61	31153449.70	0.0088	0.0075
Mercury	80583-05-22 04:20 G	31153537.65	31153537.68	31153537.74	0.0088	0.0083
Mars	80598-04-20 22:20 G	31158985.19	31158985.43	31158985.71	0.0088	0.0044
Venus	80627-11-03 23:32 G	31169773.44	31169773.48	31169773.55	0.0089	0.0086
Venus	80628-06-16 12:29 G	31169998.92	31169999.02	31169999.14	0.0089	0.0077
Venus	80629-01-28 00:58 G	31170224.42	31170224.54	31170224.70	0.0089	0.0069
Venus	80629-09-10 13:41 G	31170449.93	31170450.07	31170450.25	0.0089	0.0061
Venus	80630-04-24 02:39 G	31170675.44	31170675.61	31170675.80	0.0089	0.0051
Venus	80630-12-05 15:36 G	31170900.96	31170901.15	31170901.34	0.0089	0.0043
Venus	80631-07-19 04:05 G	31171126.49	31171126.67	31171126.89	0.0089	0.0035
Venus	80632-02-29 17:03 G	31171352.01	31171352.21	31171352.43	0.0089	0.0025
Venus	80632-10-12 06:00 G	31171577.54	31171577.75	31171577.97	0.0089	0.0016
Venus	80633-05-25 18:44 G	31171803.07	31171803.28	31171803.50	0.0089	0.0007
Venus	80634-01-06 07:41 G	31172028.60	31172028.82	31172029.04	0.0089	0.0002
Venus	80634-08-19 20:24 G	31172254.14	31172254.35	31172254.57	0.0089	0.0011
Venus	80635-04-02 09:08 G	31172479.68	31172479.88	31172480.10	0.0089	0.0020
Venus	80635-11-13 21:51 G	31172705.22	31172705.41	31172705.63	0.0089	0.0029
Venus	80636-06-26 10:34 G	31172930.76	31172930.94	31172931.16	0.0089	0.0038
Venus	80637-02-06 23:46 G	31173156.31	31173156.49	31173156.68	0.0089	0.0046
Venus	80637-09-20 12:29 G	31173381.86	31173382.02	31173382.20	0.0089	0.0055
Venus	80638-05-04 00:58 G	31173607.41	31173607.54	31173607.71	0.0089	0.0064
Venus	80638-12-15 13:41 G	31173832.96	31173833.07	31173833.22	0.0089	0.0073

Venus	80639-07-29 02:53 G	31174058.54	31174058.62	31174058.72	0.0089	0.0081
Moon	80646-11-09 02:10 G	31176718.54	31176718.59	31176718.67	0.0090	0.0086
Earth	80646-11-09 02:53 G	31176718.62	31176718.62	31176718.66	0.0090	0.0090 *
Moon	80647-11-11 13:41 G	31177085.92	31177086.07	31177086.25	0.0090	0.0070
Earth	80647-11-11 14:39 G	31177085.95	31177086.11	31177086.29	0.0090	0.0066 *
Earth	80648-11-13 01:56 G	31177453.38	31177453.58	31177453.83	0.0090	0.0043
Moon	80648-11-13 04:05 G	31177453.46	31177453.67	31177453.91	0.0090	0.0039 *
Moon	80649-11-15 11:17 G	31177820.73	31177820.97	31177821.23	0.0090	0.0023
Earth	80649-11-15 13:56 G	31177820.84	31177821.08	31177821.33	0.0090	0.0019 *
Earth	80650-11-18 01:12 G	31178188.30	31178188.55	31178188.81	0.0090	0.0005
Moon	80650-11-18 04:48 G	31178188.45	31178188.70	31178188.95	0.0090	0.0009 *
Moon	80651-11-20 09:08 G	31178555.65	31178555.88	31178556.13	0.0090	0.0025
Earth	80651-11-20 12:29 G	31178555.79	31178556.02	31178556.27	0.0090	0.0029 *
Earth	80652-11-21 23:32 G	31178923.30	31178923.48	31178923.71	0.0090	0.0052
Moon	80652-11-22 03:22 G	31178923.45	31178923.64	31178923.85	0.0090	0.0056 *
Moon	80653-11-24 08:24 G	31179290.72	31179290.85	31179291.02	0.0090	0.0071
Earth	80653-11-24 11:03 G	31179290.84	31179290.96	31179291.11	0.0090	0.0075 *
Mercury	80660-11-04 10:48 G	31181827.92	31181827.95	31181828.00	0.0090	0.0087
Mercury	80661-01-31 13:41 G	31181915.99	31181916.07	31181916.17	0.0090	0.0077
Mercury	80661-04-29 16:34 G	31182004.09	31182004.19	31182004.31	0.0090	0.0067
Mercury	80661-07-26 19:12 G	31182092.18	31182092.30	31182092.45	0.0090	0.0058
Mercury	80661-10-22 22:05 G	31182180.28	31182180.42	31182180.58	0.0090	0.0048
Mercury	80662-01-19 00:58 G	31182268.39	31182268.54	31182268.70	0.0090	0.0038
Mercury	80662-04-17 03:51 G	31182356.50	31182356.66	31182356.82	0.0090	0.0028
Mercury	80662-07-14 06:29 G	31182444.61	31182444.77	31182444.94	0.0090	0.0018
Mercury	80662-10-10 09:22 G	31182532.72	31182532.89	31182533.06	0.0090	0.0009
Mercury	80663-01-06 12:00 G	31182620.83	31182621.00	31182621.17	0.0090	0.0001
Mercury	80663-04-04 14:39 G	31182708.94	31182709.11	31182709.28	0.0090	0.0011
Mercury	80663-07-01 17:17 G	31182797.06	31182797.22	31182797.39	0.0090	0.0020
Mercury	80663-09-27 19:56 G	31182885.18	31182885.33	31182885.50	0.0090	0.0030

Mercury	80663-12-24 22:20 G	31182973.29	31182973.43	31182973.60	0.0090	0.0040
Mercury	80664-03-22 01:12 G	31183061.42	31183061.55	31183061.70	0.0090	0.0049
Mercury	80664-06-18 03:51 G	31183149.54	31183149.66	31183149.79	0.0090	0.0058
Mercury	80664-09-14 06:15 G	31183237.67	31183237.76	31183237.88	0.0090	0.0068
Mercury	80664-12-11 08:53 G	31183325.80	31183325.87	31183325.97	0.0090	0.0077
Mercury	80665-03-09 11:32 G	31183413.95	31183413.98	31183414.04	0.0090	0.0086
Mars	80680-01-10 21:51 G	31188834.10	31188834.41	31188834.74	0.0089	0.0018
Venus	80709-05-09 21:36 G	31199545.33	31199545.40	31199545.50	0.0088	0.0081
Venus	80709-12-21 11:03 G	31199770.85	31199770.96	31199771.10	0.0088	0.0073
Venus	80710-08-04 00:15 G	31199996.38	31199996.51	31199996.68	0.0088	0.0064
Venus	80711-03-17 13:41 G	31200221.91	31200222.07	31200222.26	0.0088	0.0055
Venus	80711-10-29 03:08 G	31200447.45	31200447.63	31200447.83	0.0088	0.0047
Venus	80712-06-10 16:05 G	31200672.99	31200673.17	31200673.39	0.0088	0.0039
Venus	80713-01-22 05:46 G	31200898.54	31200898.74	31200898.96	0.0088	0.0029
Venus	80713-09-04 19:12 G	31201124.08	31201124.30	31201124.52	0.0088	0.0020
Venus	80714-04-18 08:24 G	31201349.63	31201349.85	31201350.07	0.0088	0.0012
Venus	80714-11-29 21:36 G	31201575.18	31201575.40	31201575.62	0.0088	0.0003
Venus	80715-07-13 10:48 G	31201800.73	31201800.95	31201801.18	0.0088	0.0006
Venus	80716-02-24 00:00 G	31202026.29	31202026.50	31202026.73	0.0088	0.0015
Venus	80716-10-06 13:27 G	31202251.84	31202252.06	31202252.27	0.0088	0.0023
Venus	80717-05-20 02:24 G	31202477.40	31202477.60	31202477.81	0.0088	0.0032
Venus	80717-12-31 15:22 G	31202702.96	31202703.14	31202703.36	0.0088	0.0041
Venus	80718-08-14 05:03 G	31202928.52	31202928.71	31202928.89	0.0088	0.0049
Venus	80719-03-27 18:00 G	31203154.09	31203154.25	31203154.43	0.0088	0.0058
Venus	80719-11-08 06:44 G	31203379.66	31203379.78	31203379.95	0.0088	0.0067
Venus	80720-06-20 20:24 G	31203605.24	31203605.35	31203605.47	0.0088	0.0075
Venus	80721-02-01 09:22 G	31203830.85	31203830.89	31203830.98	0.0088	0.0084
Moon	80729-05-10 20:39 G	31206851.21	31206851.36	31206851.52	0.0088	0.0071
Earth	80729-05-10 22:20 G	31206851.30	31206851.43	31206851.62	0.0088	0.0070 *
Earth	80730-05-13 10:20 G	31207218.73	31207218.93	31207219.17	0.0088	0.0048



Moon	80730-05-13 12:58 G	31207218.84	31207219.04	31207219.27	0.0088	0.0047 *
Moon	80731-05-15 18:44 G	31207586.05	31207586.28	31207586.55	0.0088	0.0026
Earth	80731-05-15 22:34 G	31207586.20	31207586.44	31207586.70	0.0088	0.0025 *
Earth	80732-05-17 10:20 G	31207953.67	31207953.93	31207954.19	0.0088	0.0002
Moon	80732-05-17 13:56 G	31207953.82	31207954.08	31207954.34	0.0088	0.0002 *
Moon	80733-05-19 18:44 G	31208321.04	31208321.28	31208321.54	0.0088	0.0021
Earth	80733-05-19 22:05 G	31208321.18	31208321.42	31208321.69	0.0088	0.0021 *
Earth	80734-05-22 10:05 G	31208688.70	31208688.92	31208689.16	0.0088	0.0043
Moon	80734-05-22 12:58 G	31208688.82	31208689.04	31208689.29	0.0088	0.0043 *
Moon	80735-05-24 20:53 G	31209056.20	31209056.37	31209056.54	0.0088	0.0065
Earth	80735-05-24 21:36 G	31209056.26	31209056.40	31209056.60	0.0088	0.0066 *
Moon	80736-05-26 10:34 G	31209423.94	31209423.94	31209423.99	0.0088	0.0088
Mercury	80742-10-29 14:39 G	31211771.07	31211771.11	31211771.15	0.0088	0.0083
Mercury	80743-01-25 16:05 G	31211859.11	31211859.17	31211859.25	0.0088	0.0076
Mercury	80743-04-23 17:32 G	31211947.15	31211947.23	31211947.33	0.0088	0.0069
Mercury	80743-07-20 19:12 G	31212035.21	31212035.30	31212035.41	0.0088	0.0061
Mercury	80743-10-16 20:53 G	31212123.26	31212123.37	31212123.49	0.0088	0.0054
Mercury	80744-01-12 22:34 G	31212211.32	31212211.44	31212211.57	0.0088	0.0046
Mercury	80744-04-10 00:15 G	31212299.39	31212299.51	31212299.65	0.0088	0.0038
Mercury	80744-07-07 01:56 G	31212387.45	31212387.58	31212387.72	0.0088	0.0031
Mercury	80744-10-03 03:36 G	31212475.51	31212475.65	31212475.79	0.0088	0.0023
Mercury	80744-12-30 05:17 G	31212563.58	31212563.72	31212563.87	0.0088	0.0016
Mercury	80745-03-28 06:58 G	31212651.65	31212651.79	31212651.94	0.0088	0.0008
Mercury	80745-06-24 08:39 G	31212739.72	31212739.86	31212740.01	0.0088	0.0001
Mercury	80745-09-20 10:20 G	31212827.79	31212827.93	31212828.08	0.0088	0.0008
Mercury	80745-12-17 12:00 G	31212915.86	31212916.00	31212916.15	0.0088	0.0015
Mercury	80746-03-15 13:41 G	31213003.93	31213004.07	31213004.22	0.0088	0.0023
Mercury	80746-06-11 15:22 G	31213092.01	31213092.14	31213092.28	0.0088	0.0031
Mercury	80746-09-07 17:03 G	31213180.08	31213180.21	31213180.35	0.0088	0.0039
Mercury	80746-12-04 18:44 G	31213268.16	31213268.28	31213268.41	0.0088	0.0047

Mercury	80747-03-02 20:39 G	31213356.25	31213356.36	31213356.48	0.0088	0.0054
Mercury	80747-05-29 22:20 G	31213444.33	31213444.43	31213444.54	0.0088	0.0062
Mercury	80747-08-26 00:00 G	31213532.42	31213532.50	31213532.60	0.0088	0.0070
Mercury	80747-11-22 01:41 G	31213620.52	31213620.57	31213620.65	0.0088	0.0078
Mercury	80748-02-18 03:22 G	31213708.63	31213708.64	31213708.68	0.0088	0.0086
Mars	80763-10-31 03:22 G	31219442.38	31219442.64	31219442.93	0.0088	0.0035
Venus	80792-02-06 09:51 G	31229767.91	31229767.91	31229767.94	0.0089	0.0089
Venus	80792-09-18 22:34 G	31229993.37	31229993.44	31229993.55	0.0089	0.0080
Venus	80793-05-02 11:32 G	31230218.86	31230218.98	31230219.11	0.0089	0.0072
Venus	80793-12-14 00:00 G	31230444.36	31230444.50	31230444.67	0.0089	0.0063
Venus	80794-07-27 12:58 G	31230669.88	31230670.04	31230670.23	0.0089	0.0054
Venus	80795-03-10 01:56 G	31230895.40	31230895.58	31230895.77	0.0089	0.0045
Venus	80795-10-21 14:39 G	31231120.92	31231121.11	31231121.31	0.0089	0.0037
Venus	80796-06-03 03:08 G	31231346.44	31231346.63	31231346.85	0.0089	0.0028
Venus	80797-01-14 16:05 G	31231571.96	31231572.17	31231572.39	0.0089	0.0019
Venus	80797-08-28 05:03 G	31231797.49	31231797.71	31231797.93	0.0089	0.0010
Venus	80798-04-10 17:46 G	31232023.03	31232023.24	31232023.46	0.0089	0.0002
Venus	80798-11-22 06:29 G	31232248.56	31232248.77	31232248.99	0.0089	0.0008
Venus	80799-07-05 19:12 G	31232474.10	31232474.30	31232474.53	0.0089	0.0018
Venus	80800-02-16 08:24 G	31232699.64	31232699.85	31232700.06	0.0089	0.0026
Venus	80800-09-28 21:08 G	31232925.18	31232925.38	31232925.58	0.0089	0.0035
Jupiter	80800-10-08 16:20 G	31232934.74	31232935.18	31232935.72	0.0089	0.0043
Venus	80801-05-12 09:51 G	31233150.73	31233150.91	31233151.11	0.0089	0.0044
Venus	80801-12-23 22:34 G	31233376.28	31233376.44	31233376.63	0.0089	0.0052
Venus	80802-08-06 11:17 G	31233601.83	31233601.97	31233602.15	0.0089	0.0062
Venus	80803-03-20 00:00 G	31233827.39	31233827.50	31233827.66	0.0089	0.0071
Venus	80803-10-31 13:12 G	31234052.96	31234053.05	31234053.16	0.0089	0.0079
Venus	80804-06-13 01:41 G	31234278.55	31234278.57	31234278.63	0.0089	0.0088
Earth	80811-11-11 22:34 G	31236986.32	31236986.44	31236986.59	0.0090	0.0075
Moon	80811-11-12 00:29 G	31236986.43	31236986.52	31236986.66	0.0090	0.0079 *

Moon	80812-11-13 06:44 G	31237353.58	31237353.78	31237354.02	0.0090	0.0048
Earth	80812-11-13 10:05 G	31237353.73	31237353.92	31237354.15	0.0090	0.0052 *
Earth	80813-11-15 21:51 G	31237721.17	31237721.41	31237721.66	0.0090	0.0028
Moon	80813-11-16 01:12 G	31237721.32	31237721.55	31237721.79	0.0090	0.0031 *
Moon	80814-11-18 05:46 G	31238088.49	31238088.74	31238089.00	0.0090	0.0002
Earth	80814-11-18 09:36 G	31238088.64	31238088.90	31238089.15	0.0090	0.0005 *
Earth	80815-11-20 20:53 G	31238456.12	31238456.37	31238456.62	0.0090	0.0019
Moon	80815-11-20 23:32 G	31238456.24	31238456.48	31238456.75	0.0090	0.0016 *
Moon	80816-11-22 05:46 G	31238823.54	31238823.74	31238823.97	0.0090	0.0045
Earth	80816-11-22 07:56 G	31238823.62	31238823.83	31238824.07	0.0090	0.0043 *
Earth	80817-11-24 19:12 G	31239191.14	31239191.30	31239191.49	0.0090	0.0066
Moon	80817-11-24 20:24 G	31239191.18	31239191.35	31239191.56	0.0090	0.0063 *
Earth	80818-11-27 06:15 G	31239558.75	31239558.76	31239558.82	0.0090	0.0089
Mercury	80825-08-02 09:08 G	31241998.83	31241998.88	31241998.96	0.0090	0.0083
Mercury	80825-10-29 12:00 G	31242086.91	31242087.00	31242087.11	0.0090	0.0073
Mercury	80826-01-25 14:53 G	31242175.01	31242175.12	31242175.25	0.0090	0.0063
Mercury	80826-04-23 17:32 G	31242263.11	31242263.23	31242263.38	0.0090	0.0054
Mercury	80826-07-20 20:24 G	31242351.21	31242351.35	31242351.51	0.0090	0.0044
Mercury	80826-10-16 23:17 G	31242439.32	31242439.47	31242439.64	0.0090	0.0034
Mercury	80827-01-13 02:10 G	31242527.43	31242527.59	31242527.76	0.0090	0.0024
Mercury	80827-04-11 04:48 G	31242615.54	31242615.70	31242615.88	0.0090	0.0014
Mercury	80827-07-08 07:41 G	31242703.65	31242703.82	31242703.99	0.0090	0.0004
Mercury	80827-10-04 10:20 G	31242791.76	31242791.93	31242792.11	0.0090	0.0006
Mercury	80827-12-31 13:12 G	31242879.88	31242880.05	31242880.22	0.0090	0.0015
Mercury	80828-03-28 15:36 G	31242968.00	31242968.15	31242968.32	0.0090	0.0025
Mercury	80828-06-24 18:29 G	31243056.11	31243056.27	31243056.43	0.0090	0.0034
Mercury	80828-09-20 20:53 G	31243144.24	31243144.37	31243144.53	0.0090	0.0044
Mercury	80828-12-17 23:46 G	31243232.36	31243232.49	31243232.63	0.0090	0.0053
Mercury	80829-03-16 02:10 G	31243320.48	31243320.59	31243320.72	0.0090	0.0063
Mercury	80829-06-12 04:48 G	31243408.61	31243408.70	31243408.81	0.0090	0.0072

Mercury	80829-09-08 07:27 G	31243496.75	31243496.81	31243496.89	0.0090	0.0081
Mars	80843-08-25 17:46 G	31248596.13	31248596.24	31248596.42	0.0089	0.0081
Mars	80845-07-21 09:08 G	31249291.72	31249291.88	31249292.11	0.0089	0.0072
Venus	80873-08-11 06:44 G	31259539.74	31259539.78	31259539.87	0.0088	0.0085
Venus	80874-03-24 20:10 G	31259765.24	31259765.34	31259765.47	0.0088	0.0076
Venus	80874-11-05 09:36 G	31259990.76	31259990.90	31259991.05	0.0088	0.0067
Venus	80875-06-18 22:34 G	31260216.29	31260216.44	31260216.63	0.0088	0.0059
Venus	80876-01-30 12:15 G	31260441.84	31260442.01	31260442.21	0.0088	0.0049
Venus	80876-09-12 01:41 G	31260667.38	31260667.57	31260667.77	0.0088	0.0041
Venus	80877-04-25 14:39 G	31260892.92	31260893.11	31260893.33	0.0088	0.0032
Venus	80877-12-07 04:05 G	31261118.47	31261118.67	31261118.90	0.0088	0.0023
Venus	80878-07-20 17:32 G	31261344.02	31261344.23	31261344.46	0.0088	0.0014
Venus	80879-03-03 06:58 G	31261569.57	31261569.79	31261570.02	0.0088	0.0005
Venus	80879-10-14 20:10 G	31261795.12	31261795.34	31261795.57	0.0088	0.0004
Venus	80880-05-27 09:22 G	31262020.67	31262020.89	31262021.12	0.0088	0.0012
Venus	80881-01-07 22:34 G	31262246.23	31262246.44	31262246.67	0.0088	0.0021
Venus	80881-08-21 11:46 G	31262471.79	31262471.99	31262472.21	0.0088	0.0030
Venus	80882-04-04 00:44 G	31262697.35	31262697.53	31262697.75	0.0088	0.0039
Venus	80882-11-15 14:10 G	31262922.91	31262923.09	31262923.29	0.0088	0.0047
Venus	80883-06-29 03:08 G	31263148.48	31263148.63	31263148.82	0.0088	0.0056
Venus	80884-02-09 16:20 G	31263374.05	31263374.18	31263374.35	0.0088	0.0065
Venus	80884-09-22 05:46 G	31263599.63	31263599.74	31263599.87	0.0088	0.0073
Venus	80885-05-05 18:44 G	31263825.22	31263825.28	31263825.38	0.0088	0.0082
Earth	80893-05-10 05:32 G	31266751.63	31266751.73	31266751.87	0.0088	0.0078
Moon	80893-05-10 08:53 G	31266751.76	31266751.87	31266752.03	0.0088	0.0074 *
Moon	80894-05-12 13:56 G	31267118.91	31267119.08	31267119.29	0.0088	0.0060
Earth	80894-05-12 17:32 G	31267119.05	31267119.23	31267119.45	0.0088	0.0056 *
Earth	80895-05-15 05:32 G	31267486.49	31267486.73	31267486.97	0.0088	0.0033
Moon	80895-05-15 08:53 G	31267486.64	31267486.87	31267487.14	0.0088	0.0029 *
Moon	80896-05-16 14:10 G	31267853.85	31267854.09	31267854.36	0.0088	0.0016

Earth	80896-05-16 17:17 G	31267853.97	31267854.22	31267854.49	0.0088	0.0011	*
Earth	80897-05-19 05:03 G	31268221.46	31268221.71	31268221.98	0.0088	0.0012	
Moon	80897-05-19 07:27 G	31268221.55	31268221.81	31268222.08	0.0088	0.0016	*
Moon	80898-05-21 15:36 G	31268588.92	31268589.15	31268589.40	0.0088	0.0030	
Earth	80898-05-21 16:48 G	31268588.98	31268589.20	31268589.46	0.0088	0.0035	*
Moon	80899-05-24 04:34 G	31268956.50	31268956.69	31268956.89	0.0088	0.0061	
Earth	80899-05-24 04:34 G	31268956.52	31268956.69	31268956.91	0.0088	0.0057	*
Earth	80900-05-26 16:48 G	31269324.10	31269324.20	31269324.32	0.0088	0.0079	
Moon	80900-05-26 18:00 G	31269324.13	31269324.25	31269324.39	0.0088	0.0075	*
Mercury	80907-04-30 12:00 G	31271853.99	31271854.00	31271854.03	0.0088	0.0087	
Mercury	80907-07-27 13:27 G	31271942.02	31271942.06	31271942.14	0.0088	0.0080	
Mercury	80907-10-23 15:22 G	31272030.07	31272030.14	31272030.23	0.0088	0.0072	
Mercury	80908-01-19 16:48 G	31272118.12	31272118.20	31272118.31	0.0088	0.0065	
Mercury	80908-04-16 18:44 G	31272206.17	31272206.28	31272206.39	0.0088	0.0057	
Mercury	80908-07-13 20:10 G	31272294.23	31272294.34	31272294.47	0.0088	0.0050	
Mercury	80908-10-09 21:51 G	31272382.29	31272382.41	31272382.54	0.0088	0.0042	
Mercury	80909-01-05 23:32 G	31272470.35	31272470.48	31272470.62	0.0088	0.0035	
Mercury	80909-04-04 01:12 G	31272558.42	31272558.55	31272558.69	0.0088	0.0027	
Mercury	80909-07-01 02:53 G	31272646.48	31272646.62	31272646.77	0.0088	0.0019	
Mercury	80909-09-27 04:34 G	31272734.55	31272734.69	31272734.84	0.0088	0.0012	
Mercury	80909-12-24 06:15 G	31272822.62	31272822.76	31272822.91	0.0088	0.0004	
Mercury	80910-03-22 07:56 G	31272910.69	31272910.83	31272910.98	0.0088	0.0004	
Mercury	80910-06-18 09:36 G	31272998.76	31272998.90	31272999.05	0.0088	0.0011	
Mercury	80910-09-14 11:17 G	31273086.83	31273086.97	31273087.12	0.0088	0.0019	
Mercury	80910-12-11 12:58 G	31273174.90	31273175.04	31273175.18	0.0088	0.0027	
Mercury	80911-03-09 14:39 G	31273262.98	31273263.11	31273263.25	0.0088	0.0035	
Mercury	80911-06-05 16:20 G	31273351.06	31273351.18	31273351.31	0.0088	0.0043	
Mercury	80911-09-01 18:00 G	31273439.14	31273439.25	31273439.38	0.0088	0.0050	
Mercury	80911-11-28 19:56 G	31273527.22	31273527.33	31273527.44	0.0088	0.0058	
Mercury	80912-02-24 21:36 G	31273615.31	31273615.40	31273615.50	0.0088	0.0066	

Mercury	80912-05-22 23:17 G	31273703.40	31273703.47	31273703.55	0.0088	0.0074
Mercury	80912-08-19 00:58 G	31273791.50	31273791.54	31273791.60	0.0088	0.0082
Mars	80927-06-16 08:10 G	31279205.56	31279205.84	31279206.15	0.0088	0.0019
Venus	80956-12-22 09:08 G	31289987.83	31289987.88	31289987.98	0.0089	0.0083
Venus	80957-08-04 22:05 G	31290213.32	31290213.42	31290213.56	0.0089	0.0075
Venus	80958-03-18 11:03 G	31290438.83	31290438.96	31290439.12	0.0089	0.0065
Venus	80958-10-30 00:00 G	31290664.33	31290664.50	31290664.67	0.0089	0.0057
Venus	80959-06-12 12:15 G	31290889.85	31290890.01	31290890.22	0.0089	0.0049
Venus	80960-01-24 01:12 G	31291115.37	31291115.55	31291115.76	0.0089	0.0039
Venus	80960-09-05 13:56 G	31291340.89	31291341.08	31291341.30	0.0089	0.0031
Venus	80961-04-19 02:53 G	31291566.41	31291566.62	31291566.83	0.0089	0.0021
Venus	80961-11-30 15:36 G	31291791.94	31291792.15	31291792.37	0.0089	0.0012
Venus	80962-07-14 04:34 G	31292017.47	31292017.69	31292017.91	0.0089	0.0003
Venus	80963-02-24 17:17 G	31292243.00	31292243.22	31292243.44	0.0089	0.0006
Venus	80963-10-08 06:00 G	31292468.54	31292468.75	31292468.97	0.0089	0.0015
Venus	80964-05-20 18:44 G	31292694.07	31292694.28	31292694.49	0.0089	0.0023
Venus	80965-01-01 07:27 G	31292919.61	31292919.81	31292920.02	0.0089	0.0032
Venus	80965-08-14 20:10 G	31293145.16	31293145.34	31293145.55	0.0089	0.0042
Venus	80966-03-28 08:53 G	31293370.71	31293370.87	31293371.07	0.0089	0.0051
Venus	80966-11-08 21:36 G	31293596.26	31293596.40	31293596.58	0.0089	0.0060
Jupiter	80966-12-17 04:05 G	31293634.35	31293634.67	31293635.09	0.0089	0.0067
Venus	80967-06-22 11:03 G	31293821.82	31293821.96	31293822.10	0.0089	0.0068
Venus	80968-02-02 23:32 G	31294047.38	31294047.48	31294047.60	0.0089	0.0077
Venus	80968-09-15 12:15 G	31294272.97	31294273.01	31294273.09	0.0089	0.0086
Moon	80975-11-12 04:20 G	31296886.57	31296886.68	31296886.80	0.0090	0.0080
Earth	80975-11-12 06:58 G	31296886.73	31296886.79	31296886.91	0.0090	0.0084 *
Earth	80976-11-13 18:58 G	31297254.11	31297254.29	31297254.48	0.0090	0.0060
Moon	80976-11-13 22:20 G	31297254.27	31297254.43	31297254.63	0.0090	0.0063 *
Moon	80977-11-16 03:22 G	31297621.41	31297621.64	31297621.88	0.0090	0.0034
Earth	80977-11-16 06:29 G	31297621.55	31297621.77	31297622.01	0.0090	0.0037 *

Earth	80978-11-18 17:46 G	31297989.00	31297989.24	31297989.50	0.0090	0.0014
Moon	80978-11-18 21:08 G	31297989.12	31297989.38	31297989.63	0.0090	0.0017 *
Moon	80979-11-21 04:05 G	31298356.43	31298356.67	31298356.92	0.0090	0.0013
Earth	80979-11-21 05:46 G	31298356.48	31298356.74	31298356.99	0.0090	0.0010 *
Earth	80980-11-22 16:48 G	31298723.98	31298724.20	31298724.45	0.0090	0.0034
Moon	80980-11-22 17:32 G	31298723.99	31298724.23	31298724.49	0.0090	0.0031 *
Earth	80981-11-25 04:05 G	31299091.49	31299091.67	31299091.89	0.0090	0.0057
Moon	80981-11-25 04:34 G	31299091.53	31299091.69	31299091.89	0.0090	0.0061 *
Moon	80982-11-27 13:12 G	31299458.94	31299459.05	31299459.21	0.0090	0.0077
Earth	80982-11-27 15:36 G	31299459.05	31299459.15	31299459.28	0.0090	0.0080 *
Mercury	80990-02-01 05:03 G	31302081.69	31302081.71	31302081.75	0.0090	0.0088
Mercury	80990-04-30 07:56 G	31302169.75	31302169.83	31302169.92	0.0090	0.0078
Mercury	80990-07-27 10:48 G	31302257.84	31302257.95	31302258.07	0.0090	0.0068
Mercury	80990-10-23 13:41 G	31302345.94	31302346.07	31302346.21	0.0090	0.0058
Mercury	80991-01-19 16:20 G	31302434.05	31302434.18	31302434.34	0.0090	0.0049
Mercury	80991-04-17 19:12 G	31302522.15	31302522.30	31302522.46	0.0090	0.0039
Mercury	80991-07-14 22:05 G	31302610.26	31302610.42	31302610.59	0.0090	0.0029
Mercury	80991-10-11 00:58 G	31302698.37	31302698.54	31302698.71	0.0090	0.0019
Mercury	80992-01-07 03:36 G	31302786.48	31302786.65	31302786.82	0.0090	0.0009
Mercury	80992-04-04 06:29 G	31302874.60	31302874.77	31302874.94	0.0090	0.0002
Mercury	80992-07-01 09:08 G	31302962.71	31302962.88	31302963.05	0.0090	0.0010
Mercury	80992-09-27 11:46 G	31303050.83	31303050.99	31303051.16	0.0090	0.0020
Mercury	80992-12-24 14:24 G	31303138.95	31303139.10	31303139.27	0.0090	0.0030
Mercury	80993-03-22 17:03 G	31303227.07	31303227.21	31303227.37	0.0090	0.0039
Mercury	80993-06-18 19:41 G	31303315.19	31303315.32	31303315.47	0.0090	0.0049
Mercury	80993-09-14 22:20 G	31303403.31	31303403.43	31303403.57	0.0090	0.0058
Mercury	80993-12-12 01:12 G	31303491.44	31303491.55	31303491.66	0.0090	0.0067
Mercury	80994-03-10 03:36 G	31303579.58	31303579.65	31303579.75	0.0090	0.0077
Mercury	80994-06-06 06:15 G	31303667.73	31303667.76	31303667.82	0.0090	0.0086

# 82ND MILLENNIUM CE

**This is a list of transits visible from Neptune in the 82nd millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	81009-03-06 06:29	G	31309053.46	31309053.77	31309054.11	0.0089	0.0010	
Venus	81037-11-14 16:34	G	31319534.16	31319534.19	31319534.24	0.0088	0.0087	
Venus	81038-06-28 05:32	G	31319759.65	31319759.73	31319759.85	0.0088	0.0078	
Venus	81039-02-08 18:58	G	31319985.17	31319985.29	31319985.44	0.0088	0.0070	
Venus	81039-09-22 08:24	G	31320210.70	31320210.85	31320211.02	0.0088	0.0061	
Venus	81040-05-04 21:22	G	31320436.23	31320436.39	31320436.59	0.0088	0.0052	
Venus	81040-12-16 10:48	G	31320661.77	31320661.95	31320662.16	0.0088	0.0043	
Venus	81041-07-30 00:15	G	31320887.31	31320887.51	31320887.72	0.0088	0.0034	
Venus	81042-03-12 13:41	G	31321112.86	31321113.07	31321113.29	0.0088	0.0025	
Venus	81042-10-24 02:39	G	31321338.41	31321338.61	31321338.84	0.0088	0.0018	
Venus	81043-06-06 16:05	G	31321563.96	31321564.17	31321564.40	0.0088	0.0008	
Venus	81044-01-18 05:46	G	31321789.51	31321789.74	31321789.96	0.0088	0.0002	
Venus	81044-08-30 18:58	G	31322015.07	31322015.29	31322015.51	0.0088	0.0010	
Venus	81045-04-13 07:56	G	31322240.63	31322240.83	31322241.06	0.0088	0.0019	
Venus	81045-11-24 21:08	G	31322466.18	31322466.38	31322466.61	0.0088	0.0028	
Venus	81046-07-08 10:34	G	31322691.74	31322691.94	31322692.15	0.0088	0.0036	
Venus	81047-02-18 23:46	G	31322917.31	31322917.49	31322917.70	0.0088	0.0046	
Venus	81047-10-02 12:58	G	31323142.88	31323143.04	31323143.23	0.0088	0.0054	
Venus	81048-05-15 01:56	G	31323368.45	31323368.58	31323368.76	0.0088	0.0063	



Venus	81048-12-26 15:22 G	31323594.03	31323594.14	31323594.28	0.0088	0.0071
Venus	81049-08-09 04:20 G	31323819.61	31323819.68	31323819.80	0.0088	0.0080
Moon	81057-05-11 09:51 G	31326651.85	31326651.91	31326652.01	0.0088	0.0083
Earth	81057-05-11 13:27 G	31326652.04	31326652.06	31326652.14	0.0088	0.0086
Earth	81058-05-14 01:12 G	31327019.40	31327019.55	31327019.76	0.0088	0.0064
Moon	81058-05-14 04:34 G	31327019.54	31327019.69	31327019.89	0.0088	0.0066 *
Moon	81059-05-16 10:34 G	31327386.73	31327386.94	31327387.18	0.0088	0.0040
Earth	81059-05-16 13:41 G	31327386.85	31327387.07	31327387.31	0.0088	0.0041 *
Earth	81060-05-18 01:27 G	31327754.31	31327754.56	31327754.82	0.0088	0.0019
Moon	81060-05-18 03:08 G	31327754.38	31327754.63	31327754.90	0.0088	0.0021 *
Moon	81061-05-20 12:58 G	31328121.80	31328122.04	31328122.30	0.0088	0.0006
Earth	81061-05-20 13:27 G	31328121.80	31328122.06	31328122.33	0.0088	0.0004 *
Moon	81062-05-23 00:44 G	31328489.28	31328489.53	31328489.80	0.0088	0.0025
Earth	81062-05-23 01:12 G	31328489.31	31328489.55	31328489.81	0.0088	0.0026 *
Earth	81063-05-25 12:29 G	31328856.83	31328857.02	31328857.26	0.0088	0.0049
Moon	81063-05-25 14:39 G	31328856.92	31328857.11	31328857.34	0.0088	0.0051 *
Moon	81064-05-26 21:36 G	31329224.26	31329224.40	31329224.59	0.0088	0.0069
Earth	81064-05-27 00:29 G	31329224.39	31329224.52	31329224.70	0.0088	0.0071 *
Mercury	81072-01-26 11:17 G	31332024.94	31332024.97	31332025.03	0.0088	0.0083
Mercury	81072-04-23 12:58 G	31332112.98	31332113.04	31332113.12	0.0088	0.0076
Mercury	81072-07-20 14:39 G	31332201.03	31332201.11	31332201.21	0.0088	0.0068
Mercury	81072-10-16 16:05 G	31332289.08	31332289.17	31332289.29	0.0088	0.0061
Mercury	81073-01-12 18:00 G	31332377.14	31332377.25	31332377.37	0.0088	0.0053
Mercury	81073-04-10 19:27 G	31332465.20	31332465.31	31332465.45	0.0088	0.0046
Mercury	81073-07-07 21:22 G	31332553.26	31332553.39	31332553.52	0.0088	0.0038
Mercury	81073-10-03 22:48 G	31332641.32	31332641.45	31332641.59	0.0088	0.0031
Mercury	81073-12-31 00:29 G	31332729.39	31332729.52	31332729.67	0.0088	0.0023
Mercury	81074-03-29 02:10 G	31332817.45	31332817.59	31332817.74	0.0088	0.0015
Mercury	81074-06-25 03:51 G	31332905.52	31332905.66	31332905.81	0.0088	0.0008
Mercury	81074-09-21 05:32 G	31332993.59	31332993.73	31332993.88	0.0088	0.0003

Mercury	81074-12-18 07:12 G	31333081.66	31333081.80	31333081.95	0.0088	0.0008
Mercury	81075-03-16 08:53 G	31333169.73	31333169.87	31333170.02	0.0088	0.0016
Mercury	81075-06-12 10:34 G	31333257.80	31333257.94	31333258.09	0.0088	0.0023
Mercury	81075-09-08 12:15 G	31333345.88	31333346.01	31333346.15	0.0088	0.0031
Mercury	81075-12-05 13:56 G	31333433.95	31333434.08	31333434.22	0.0088	0.0039
Mercury	81076-03-02 15:36 G	31333522.03	31333522.15	31333522.28	0.0088	0.0047
Mercury	81076-05-29 17:17 G	31333610.11	31333610.22	31333610.34	0.0088	0.0055
Mercury	81076-08-25 19:12 G	31333698.20	31333698.30	31333698.40	0.0088	0.0062
Mercury	81076-11-21 20:53 G	31333786.29	31333786.37	31333786.46	0.0088	0.0070
Mercury	81077-02-17 22:34 G	31333874.38	31333874.44	31333874.51	0.0088	0.0078
Mercury	81077-05-17 00:15 G	31333962.49	31333962.51	31333962.55	0.0088	0.0086
Mars	81091-01-30 13:41 G	31338968.91	31338969.07	31338969.26	0.0088	0.0071
Mars	81092-12-24 15:22 G	31339662.94	31339663.14	31339663.38	0.0088	0.0061
Venus	81121-03-27 20:24 G	31349982.31	31349982.35	31349982.43	0.0089	0.0085
Venus	81121-11-08 08:53 G	31350207.79	31350207.87	31350208.01	0.0089	0.0077
Venus	81122-06-21 21:51 G	31350433.29	31350433.41	31350433.57	0.0089	0.0068
Venus	81123-02-02 10:48 G	31350658.81	31350658.95	31350659.13	0.0089	0.0059
Venus	81123-09-15 23:46 G	31350884.32	31350884.49	31350884.68	0.0089	0.0050
Venus	81124-04-28 12:29 G	31351109.84	31351110.02	31351110.22	0.0089	0.0041
Venus	81124-12-10 01:12 G	31351335.36	31351335.55	31351335.76	0.0089	0.0033
Venus	81125-07-23 14:10 G	31351560.89	31351561.09	31351561.31	0.0089	0.0024
Venus	81126-03-06 03:08 G	31351786.41	31351786.63	31351786.84	0.0089	0.0014
Venus	81126-10-17 15:51 G	31352011.94	31352012.16	31352012.38	0.0089	0.0006
Venus	81127-05-31 04:34 G	31352237.47	31352237.69	31352237.90	0.0089	0.0004
Venus	81128-01-11 17:17 G	31352463.00	31352463.22	31352463.43	0.0089	0.0012
Venus	81128-08-24 06:00 G	31352688.54	31352688.75	31352688.96	0.0089	0.0021
Venus	81129-04-06 18:44 G	31352914.08	31352914.28	31352914.49	0.0089	0.0030
Venus	81129-11-18 07:12 G	31353139.62	31353139.80	31353140.01	0.0089	0.0040
Venus	81130-07-01 20:10 G	31353365.17	31353365.34	31353365.53	0.0089	0.0048
Venus	81131-02-12 08:53 G	31353590.72	31353590.87	31353591.05	0.0089	0.0057

Venus	81131-09-25 21:36 G	31353816.27	31353816.40	31353816.56	0.0089	0.0066
Venus	81132-05-08 10:48 G	31354041.84	31354041.95	31354042.07	0.0089	0.0075
Venus	81132-12-19 23:32 G	31354267.41	31354267.48	31354267.56	0.0089	0.0084
Moon	81139-11-13 20:10 G	31356787.31	31356787.34	31356787.42	0.0090	0.0088
Moon	81140-11-15 01:12 G	31357154.42	31357154.55	31357154.71	0.0090	0.0073
Earth	81140-11-15 04:05 G	31357154.53	31357154.67	31357154.86	0.0090	0.0069 *
Earth	81141-11-17 15:22 G	31357521.95	31357522.14	31357522.38	0.0090	0.0046
Moon	81141-11-17 17:32 G	31357522.02	31357522.23	31357522.49	0.0090	0.0042 *
Moon	81142-11-20 01:41 G	31357889.35	31357889.57	31357889.82	0.0090	0.0026
Earth	81142-11-20 03:22 G	31357889.40	31357889.64	31357889.89	0.0090	0.0022 *
Moon	81143-11-22 14:39 G	31358256.85	31358257.11	31358257.38	0.0090	0.0006
Earth	81143-11-22 14:53 G	31358256.87	31358257.12	31358257.38	0.0090	0.0001 *
Earth	81144-11-24 02:10 G	31358624.35	31358624.59	31358624.84	0.0090	0.0025
Moon	81144-11-24 03:36 G	31358624.41	31358624.65	31358624.89	0.0090	0.0021 *
Moon	81145-11-26 11:17 G	31358991.77	31358991.97	31358992.20	0.0090	0.0052
Earth	81145-11-26 13:27 G	31358991.86	31358992.06	31358992.29	0.0090	0.0048 *
Earth	81146-11-29 01:12 G	31359359.40	31359359.55	31359359.71	0.0090	0.0071
Moon	81146-11-29 04:20 G	31359359.52	31359359.68	31359359.85	0.0090	0.0067 *
Mercury	81154-10-31 03:36 G	31362252.60	31362252.65	31362252.74	0.0090	0.0083
Mercury	81155-01-27 06:29 G	31362340.69	31362340.77	31362340.89	0.0090	0.0073
Mercury	81155-04-25 09:22 G	31362428.78	31362428.89	31362429.03	0.0090	0.0063
Mercury	81155-07-22 12:29 G	31362516.88	31362517.02	31362517.16	0.0090	0.0053
Mercury	81155-10-18 15:22 G	31362604.99	31362605.14	31362605.29	0.0090	0.0043
Mercury	81156-01-14 18:15 G	31362693.10	31362693.26	31362693.42	0.0090	0.0033
Mercury	81156-04-11 20:53 G	31362781.21	31362781.37	31362781.54	0.0090	0.0023
Mercury	81156-07-08 23:46 G	31362869.32	31362869.49	31362869.66	0.0090	0.0014
Mercury	81156-10-05 02:24 G	31362957.43	31362957.60	31362957.78	0.0090	0.0005
Mercury	81157-01-01 05:17 G	31363045.55	31363045.72	31363045.89	0.0090	0.0006
Mercury	81157-03-30 07:56 G	31363133.66	31363133.83	31363134.00	0.0090	0.0016
Mercury	81157-06-26 10:34 G	31363221.78	31363221.94	31363222.11	0.0090	0.0025

Mercury	81157-09-22 13:12 G	31363309.90	31363310.05	31363310.22	0.0090	0.0035
Mercury	81157-12-19 15:51 G	31363398.02	31363398.16	31363398.32	0.0090	0.0045
Mercury	81158-03-17 18:44 G	31363486.15	31363486.28	31363486.42	0.0090	0.0054
Mercury	81158-06-13 21:08 G	31363574.28	31363574.38	31363574.52	0.0090	0.0064
Mercury	81158-09-09 23:46 G	31363662.41	31363662.49	31363662.60	0.0090	0.0073
Mercury	81158-12-07 02:39 G	31363750.55	31363750.61	31363750.68	0.0090	0.0082
Mars	81172-10-19 06:44 G	31368815.53	31368815.78	31368816.06	0.0089	0.0052
Venus	81202-09-30 16:05 G	31379754.09	31379754.17	31379754.27	0.0088	0.0081
Venus	81203-05-14 05:32 G	31379979.60	31379979.73	31379979.86	0.0088	0.0072
Venus	81203-12-25 18:15 G	31380205.13	31380205.26	31380205.44	0.0088	0.0064
Venus	81204-08-07 07:41 G	31380430.66	31380430.82	31380431.01	0.0088	0.0055
Venus	81205-03-20 21:08 G	31380656.20	31380656.38	31380656.58	0.0088	0.0045
Venus	81205-11-01 10:20 G	31380881.73	31380881.93	31380882.14	0.0088	0.0037
Venus	81206-06-14 23:46 G	31381107.28	31381107.49	31381107.70	0.0088	0.0028
Venus	81207-01-26 12:58 G	31381332.83	31381333.04	31381333.26	0.0088	0.0019
Venus	81207-09-09 02:10 G	31381558.38	31381558.59	31381558.82	0.0088	0.0011
Venus	81208-04-21 15:36 G	31381783.93	31381784.15	31381784.37	0.0088	0.0001
Venus	81208-12-03 04:48 G	31382009.48	31382009.70	31382009.92	0.0088	0.0008
Venus	81209-07-16 18:00 G	31382235.04	31382235.25	31382235.48	0.0088	0.0017
Venus	81210-02-27 07:12 G	31382460.60	31382460.80	31382461.03	0.0088	0.0026
Venus	81210-10-10 20:39 G	31382686.16	31382686.36	31382686.57	0.0088	0.0035
Venus	81211-05-24 09:51 G	31382911.72	31382911.91	31382912.11	0.0088	0.0043
Venus	81212-01-04 23:03 G	31383137.29	31383137.46	31383137.65	0.0088	0.0052
Venus	81212-08-17 12:00 G	31383362.86	31383363.00	31383363.18	0.0088	0.0062
Venus	81213-03-31 01:12 G	31383588.44	31383588.55	31383588.71	0.0088	0.0070
Venus	81213-11-11 14:39 G	31383814.03	31383814.11	31383814.23	0.0088	0.0078
Venus	81214-06-25 03:36 G	31384039.64	31384039.65	31384039.71	0.0088	0.0087
Moon	81222-05-14 07:41 G	31386919.68	31386919.82	31386920.00	0.0088	0.0068
Earth	81222-05-14 09:51 G	31386919.77	31386919.91	31386920.07	0.0088	0.0071 *
Earth	81223-05-16 21:36 G	31387287.20	31387287.40	31387287.63	0.0088	0.0049

Moon	81223-05-16 22:48 G	31387287.26	31387287.45	31387287.69	0.0088	0.0053	*
Earth	81224-05-18 09:36 G	31387654.67	31387654.90	31387655.16	0.0088	0.0027	
Moon	81224-05-18 09:36 G	31387654.67	31387654.90	31387655.16	0.0088	0.0023	*
Moon	81225-05-20 20:10 G	31388022.08	31388022.34	31388022.61	0.0088	0.0008	
Earth	81225-05-20 21:51 G	31388022.15	31388022.41	31388022.67	0.0088	0.0004	*
Earth	81226-05-23 09:22 G	31388389.65	31388389.89	31388390.16	0.0088	0.0019	
Moon	81226-05-23 11:32 G	31388389.74	31388389.98	31388390.23	0.0088	0.0023	*
Moon	81227-05-25 18:15 G	31388757.02	31388757.26	31388757.50	0.0088	0.0036	
Earth	81227-05-25 21:22 G	31388757.17	31388757.39	31388757.63	0.0088	0.0041	*
Earth	81228-05-27 09:08 G	31389124.71	31389124.88	31389125.08	0.0088	0.0063	
Moon	81228-05-27 12:44 G	31389124.88	31389125.03	31389125.21	0.0088	0.0067	*
Moon	81229-05-29 17:17 G	31389492.15	31389492.22	31389492.35	0.0088	0.0081	
Earth	81229-05-29 21:08 G	31389492.33	31389492.38	31389492.46	0.0088	0.0085	*
Mercury	81236-07-27 09:22 G	31392107.87	31392107.89	31392107.93	0.0088	0.0086	
Mercury	81236-10-23 11:17 G	31392195.90	31392195.97	31392196.03	0.0088	0.0078	
Mercury	81237-01-19 12:29 G	31392283.95	31392284.02	31392284.12	0.0088	0.0071	
Mercury	81237-04-17 14:10 G	31392372.00	31392372.09	31392372.20	0.0088	0.0064	
Mercury	81237-07-14 15:51 G	31392460.06	31392460.16	31392460.28	0.0088	0.0056	
Mercury	81237-10-10 17:17 G	31392548.12	31392548.22	31392548.35	0.0088	0.0049	
Mercury	81238-01-06 19:12 G	31392636.18	31392636.30	31392636.43	0.0088	0.0041	
Mercury	81238-04-04 20:39 G	31392724.24	31392724.36	31392724.50	0.0088	0.0034	
Mercury	81238-07-01 22:20 G	31392812.30	31392812.43	31392812.58	0.0088	0.0026	
Mercury	81238-09-28 00:15 G	31392900.36	31392900.51	31392900.65	0.0088	0.0018	
Mercury	81238-12-25 01:41 G	31392988.43	31392988.57	31392988.72	0.0088	0.0011	
Mercury	81239-03-23 03:22 G	31393076.50	31393076.64	31393076.79	0.0088	0.0004	
Mercury	81239-06-19 05:03 G	31393164.57	31393164.71	31393164.86	0.0088	0.0005	
Mercury	81239-09-15 06:44 G	31393252.64	31393252.78	31393252.93	0.0088	0.0013	
Mercury	81239-12-12 08:24 G	31393340.71	31393340.85	31393341.00	0.0088	0.0020	
Mercury	81240-03-09 10:05 G	31393428.79	31393428.92	31393429.06	0.0088	0.0028	
Mercury	81240-06-05 11:46 G	31393516.86	31393516.99	31393517.13	0.0088	0.0036	

Mercury	81240-09-01 13:27 G	31393604.94	31393605.06	31393605.19	0.0088	0.0044
Mercury	81240-11-28 14:53 G	31393693.02	31393693.12	31393693.26	0.0088	0.0052
Mercury	81241-02-24 16:48 G	31393781.10	31393781.20	31393781.32	0.0088	0.0059
Mercury	81241-05-23 18:29 G	31393869.19	31393869.27	31393869.37	0.0088	0.0067
Mercury	81241-08-19 20:10 G	31393957.28	31393957.34	31393957.43	0.0088	0.0075
Mercury	81241-11-15 21:51 G	31394045.38	31394045.41	31394045.47	0.0088	0.0083
Mars	81256-08-09 21:36 G	31399426.10	31399426.40	31399426.70	0.0088	0.0009
Venus	81285-06-29 07:27 G	31409976.80	31409976.81	31409976.87	0.0089	0.0088
Venus	81286-02-09 20:24 G	31410202.27	31410202.35	31410202.47	0.0089	0.0079
Venus	81286-09-23 09:08 G	31410427.77	31410427.88	31410428.03	0.0089	0.0070
Venus	81287-05-06 22:05 G	31410653.27	31410653.42	31410653.59	0.0089	0.0061
Venus	81287-12-18 11:03 G	31410878.79	31410878.96	31410879.14	0.0089	0.0052
Venus	81288-07-31 00:00 G	31411104.31	31411104.50	31411104.69	0.0089	0.0043
Venus	81289-03-13 12:44 G	31411329.83	31411330.03	31411330.24	0.0089	0.0035
Venus	81289-10-25 01:12 G	31411555.36	31411555.55	31411555.77	0.0089	0.0026
Venus	81290-06-07 14:10 G	31411780.88	31411781.09	31411781.31	0.0089	0.0017
Venus	81291-01-19 02:53 G	31412006.41	31412006.62	31412006.84	0.0089	0.0008
Venus	81291-09-01 15:51 G	31412231.94	31412232.16	31412232.38	0.0089	0.0001
Venus	81292-04-14 04:34 G	31412457.48	31412457.69	31412457.91	0.0089	0.0010
Venus	81292-11-25 17:17 G	31412683.01	31412683.22	31412683.43	0.0089	0.0019
Venus	81293-07-09 06:00 G	31412908.55	31412908.75	31412908.96	0.0089	0.0028
Venus	81294-02-19 18:44 G	31413134.09	31413134.28	31413134.49	0.0089	0.0037
Venus	81294-10-03 07:27 G	31413359.63	31413359.81	31413360.00	0.0089	0.0046
Venus	81295-05-16 19:56 G	31413585.18	31413585.33	31413585.52	0.0089	0.0056
Venus	81295-12-28 08:39 G	31413810.73	31413810.86	31413811.03	0.0089	0.0065
Venus	81296-08-09 21:36 G	31414036.30	31414036.40	31414036.55	0.0089	0.0074
Venus	81297-03-23 10:20 G	31414261.87	31414261.93	31414262.04	0.0089	0.0083
Earth	81304-11-15 14:39 G	31417054.99	31417055.11	31417055.26	0.0090	0.0076
Moon	81304-11-15 16:20 G	31417055.06	31417055.18	31417055.36	0.0090	0.0074 *
Moon	81305-11-18 01:27 G	31417422.39	31417422.56	31417422.78	0.0090	0.0055

Earth	81305-11-18 02:10 G	31417422.40	31417422.59	31417422.81	0.0090	0.0053	*
Moon	81306-11-20 13:27 G	31417789.82	31417790.06	31417790.32	0.0090	0.0028	
Earth	81306-11-20 13:41 G	31417789.84	31417790.07	31417790.32	0.0090	0.0030	*
Earth	81307-11-23 01:12 G	31418157.29	31418157.55	31418157.80	0.0090	0.0007	
Moon	81307-11-23 02:53 G	31418157.37	31418157.62	31418157.86	0.0090	0.0009	*
Moon	81308-11-24 09:36 G	31418524.65	31418524.90	31418525.16	0.0090	0.0018	
Earth	81308-11-24 12:29 G	31418524.77	31418525.02	31418525.27	0.0090	0.0017	*
Earth	81309-11-26 23:32 G	31418892.27	31418892.48	31418892.72	0.0090	0.0040	
Moon	81309-11-27 02:53 G	31418892.40	31418892.62	31418892.85	0.0090	0.0037	*
Moon	81310-11-29 06:58 G	31419259.65	31419259.79	31419259.99	0.0090	0.0066	
Earth	81310-11-29 11:03 G	31419259.80	31419259.96	31419260.16	0.0090	0.0063	*
Earth	81311-12-01 22:20 G	31419627.38	31419627.43	31419627.52	0.0090	0.0086	
Moon	81311-12-02 01:12 G	31419627.49	31419627.55	31419627.68	0.0090	0.0084	*
Mercury	81319-05-01 23:46 G	31422335.47	31422335.49	31422335.55	0.0090	0.0087	
Mercury	81319-07-29 02:39 G	31422423.54	31422423.61	31422423.72	0.0090	0.0077	
Mercury	81319-10-25 05:32 G	31422511.63	31422511.73	31422511.86	0.0090	0.0067	
Mercury	81320-01-21 08:39 G	31422599.73	31422599.86	31422600.00	0.0090	0.0057	
Mercury	81320-04-18 11:32 G	31422687.84	31422687.98	31422688.13	0.0090	0.0047	
Mercury	81320-07-15 14:24 G	31422775.94	31422776.10	31422776.26	0.0090	0.0037	
Mercury	81320-10-11 17:03 G	31422864.05	31422864.21	31422864.38	0.0090	0.0027	
Mercury	81321-01-07 19:56 G	31422952.16	31422952.33	31422952.50	0.0090	0.0018	
Mercury	81321-04-05 22:48 G	31423040.28	31423040.45	31423040.62	0.0090	0.0008	
Mercury	81321-07-03 01:27 G	31423128.39	31423128.56	31423128.74	0.0090	0.0003	
Mercury	81321-09-29 04:20 G	31423216.51	31423216.68	31423216.85	0.0090	0.0012	
Mercury	81321-12-26 06:44 G	31423304.63	31423304.78	31423304.96	0.0090	0.0022	
Mercury	81322-03-24 09:36 G	31423392.75	31423392.90	31423393.07	0.0090	0.0031	
Mercury	81322-06-20 12:15 G	31423480.87	31423481.01	31423481.17	0.0090	0.0041	
Mercury	81322-09-16 15:08 G	31423568.99	31423569.13	31423569.27	0.0090	0.0050	
Mercury	81322-12-13 17:32 G	31423657.12	31423657.23	31423657.37	0.0090	0.0060	
Mercury	81323-03-11 20:10 G	31423745.25	31423745.34	31423745.46	0.0090	0.0069	

Mercury	81323-06-07 22:48 G	31423833.38	31423833.45	31423833.55	0.0090	0.0078
Mercury	81323-09-04 01:27 G	31423921.54	31423921.56	31423921.61	0.0090	0.0088
Mars	81338-04-29 21:22 G	31429273.12	31429273.39	31429273.70	0.0089	0.0039
Venus	81367-01-03 02:39 G	31439748.54	31439748.61	31439748.69	0.0088	0.0083
Venus	81367-08-16 15:22 G	31439974.05	31439974.14	31439974.29	0.0088	0.0075
Venus	81368-03-29 04:48 G	31440199.57	31440199.70	31440199.87	0.0088	0.0066
Venus	81368-11-09 18:15 G	31440425.10	31440425.26	31440425.44	0.0088	0.0057
Venus	81369-06-23 07:27 G	31440650.63	31440650.81	31440651.01	0.0088	0.0048
Venus	81370-02-03 20:39 G	31440876.18	31440876.36	31440876.58	0.0088	0.0039
Venus	81370-09-17 09:51 G	31441101.72	31441101.91	31441102.14	0.0088	0.0031
Venus	81371-04-30 23:17 G	31441327.26	31441327.47	31441327.69	0.0088	0.0021
Venus	81371-12-12 12:29 G	31441552.81	31441553.02	31441553.25	0.0088	0.0012
Venus	81372-07-25 01:56 G	31441778.36	31441778.58	31441778.80	0.0088	0.0003
Venus	81373-03-07 15:08 G	31442003.92	31442004.13	31442004.36	0.0088	0.0007
Venus	81373-10-19 04:20 G	31442229.47	31442229.68	31442229.91	0.0088	0.0015
Venus	81374-06-01 17:32 G	31442455.03	31442455.23	31442455.46	0.0088	0.0024
Venus	81375-01-13 06:44 G	31442680.59	31442680.78	31442681.01	0.0088	0.0033
Venus	81375-08-26 20:24 G	31442906.16	31442906.35	31442906.55	0.0088	0.0041
Jupiter	81375-09-09 21:51 G	31442920.06	31442920.41	31442920.85	0.0088	0.0059
Venus	81376-04-08 09:36 G	31443131.72	31443131.90	31443132.09	0.0088	0.0050
Venus	81376-11-19 22:34 G	31443357.29	31443357.44	31443357.62	0.0088	0.0060
Venus	81377-07-03 11:46 G	31443582.87	31443582.99	31443583.15	0.0088	0.0068
Venus	81378-02-14 00:58 G	31443808.46	31443808.54	31443808.68	0.0088	0.0077
Venus	81378-09-27 14:39 G	31444034.07	31444034.11	31444034.17	0.0088	0.0085
Moon	81386-05-14 18:44 G	31446820.16	31446820.28	31446820.44	0.0088	0.0075
Earth	81386-05-14 18:15 G	31446820.18	31446820.26	31446820.41	0.0088	0.0079 *
Earth	81387-05-17 06:44 G	31447187.59	31447187.78	31447187.99	0.0088	0.0056
Moon	81387-05-17 07:27 G	31447187.63	31447187.81	31447188.00	0.0088	0.0059 *
Moon	81388-05-18 17:03 G	31447554.96	31447555.21	31447555.47	0.0088	0.0031
Earth	81388-05-18 18:44 G	31447555.05	31447555.28	31447555.53	0.0088	0.0034 *



Earth	81389-05-21 06:29 G	31447922.52	31447922.77	31447923.04	0.0088	0.0012
Moon	81389-05-21 09:36 G	31447922.65	31447922.90	31447923.16	0.0088	0.0015 *
Moon	81390-05-23 15:08 G	31448289.88	31448290.13	31448290.41	0.0088	0.0014
Earth	81390-05-23 18:29 G	31448290.02	31448290.27	31448290.54	0.0088	0.0011 *
Earth	81391-05-26 06:29 G	31448657.53	31448657.77	31448658.02	0.0088	0.0033
Moon	81391-05-26 10:05 G	31448657.69	31448657.92	31448658.18	0.0088	0.0031 *
Moon	81392-05-27 14:39 G	31449024.95	31449025.11	31449025.33	0.0088	0.0059
Earth	81392-05-27 18:29 G	31449025.07	31449025.27	31449025.48	0.0088	0.0055 *
Earth	81393-05-30 06:15 G	31449392.65	31449392.76	31449392.89	0.0088	0.0077
Moon	81393-05-30 09:22 G	31449392.75	31449392.89	31449393.02	0.0088	0.0075 *
Mercury	81401-04-25 09:08 G	31452278.83	31452278.88	31452278.93	0.0088	0.0081
Mercury	81401-07-22 10:34 G	31452366.87	31452366.94	31452367.02	0.0088	0.0074
Mercury	81401-10-18 12:00 G	31452454.92	31452455.00	31452455.11	0.0088	0.0067
Mercury	81402-01-14 13:41 G	31452542.98	31452543.07	31452543.19	0.0088	0.0059
Mercury	81402-04-12 15:22 G	31452631.03	31452631.14	31452631.26	0.0088	0.0051
Mercury	81402-07-09 17:03 G	31452719.09	31452719.21	31452719.34	0.0088	0.0044
Mercury	81402-10-05 18:29 G	31452807.15	31452807.27	31452807.41	0.0088	0.0037
Mercury	81403-01-01 20:24 G	31452895.21	31452895.35	31452895.49	0.0088	0.0029
Mercury	81403-03-30 22:05 G	31452983.28	31452983.42	31452983.56	0.0088	0.0021
Mercury	81403-06-26 23:32 G	31453071.34	31453071.48	31453071.63	0.0088	0.0014
Mercury	81403-09-23 01:12 G	31453159.41	31453159.55	31453159.70	0.0088	0.0007
Mercury	81403-12-20 02:53 G	31453247.48	31453247.62	31453247.77	0.0088	0.0003
Mercury	81404-03-17 04:34 G	31453335.55	31453335.69	31453335.84	0.0088	0.0010
Mercury	81404-06-13 06:15 G	31453423.62	31453423.76	31453423.91	0.0088	0.0017
Mercury	81404-09-09 07:56 G	31453511.69	31453511.83	31453511.97	0.0088	0.0025
Mercury	81404-12-06 09:36 G	31453599.77	31453599.90	31453600.04	0.0088	0.0033
Mercury	81405-03-04 11:17 G	31453687.85	31453687.97	31453688.10	0.0088	0.0041
Mercury	81405-05-31 12:44 G	31453775.92	31453776.03	31453776.17	0.0088	0.0049
Mercury	81405-08-27 14:39 G	31453864.01	31453864.11	31453864.23	0.0088	0.0056
Mercury	81405-11-23 16:20 G	31453952.09	31453952.18	31453952.29	0.0088	0.0064

Mercury	81406-02-19 18:00 G	31454040.18	31454040.25	31454040.34	0.0088	0.0072
Mercury	81406-05-18 19:41 G	31454128.27	31454128.32	31454128.39	0.0088	0.0080
Mercury	81406-08-14 21:36 G	31454216.40	31454216.40	31454216.41	0.0088	0.0087
Mars	81420-03-27 01:27 G	31459189.31	31459189.56	31459189.85	0.0088	0.0042
Venus	81450-05-16 07:56 G	31470196.76	31470196.83	31470196.93	0.0089	0.0081
Venus	81450-12-27 20:53 G	31470422.25	31470422.37	31470422.50	0.0089	0.0072
Venus	81451-08-10 09:51 G	31470647.77	31470647.91	31470648.07	0.0089	0.0064
Venus	81452-03-22 22:48 G	31470873.28	31470873.45	31470873.62	0.0089	0.0055
Venus	81452-11-03 11:17 G	31471098.80	31471098.97	31471099.17	0.0089	0.0046
Venus	81453-06-17 00:00 G	31471324.32	31471324.50	31471324.72	0.0089	0.0037
Venus	81454-01-28 12:58 G	31471549.84	31471550.04	31471550.26	0.0089	0.0028
Venus	81454-09-11 01:41 G	31471775.37	31471775.57	31471775.80	0.0089	0.0020
Venus	81455-04-24 14:53 G	31472000.90	31472001.12	31472001.33	0.0089	0.0010
Venus	81455-12-06 03:36 G	31472226.43	31472226.65	31472226.87	0.0089	0.0001
Venus	81456-07-18 16:34 G	31472451.97	31472452.19	31472452.40	0.0089	0.0009
Venus	81457-03-01 05:17 G	31472677.50	31472677.72	31472677.93	0.0089	0.0018
Venus	81457-10-12 17:46 G	31472903.04	31472903.24	31472903.45	0.0089	0.0027
Venus	81458-05-26 06:29 G	31473128.58	31473128.77	31473128.97	0.0089	0.0036
Venus	81459-01-06 19:12 G	31473354.12	31473354.30	31473354.49	0.0089	0.0045
Venus	81459-08-20 08:10 G	31473579.67	31473579.84	31473580.02	0.0089	0.0054
Venus	81460-04-01 20:39 G	31473805.22	31473805.36	31473805.53	0.0089	0.0063
Venus	81460-11-13 09:22 G	31474030.78	31474030.89	31474031.03	0.0089	0.0072
Venus	81461-06-26 22:05 G	31474256.34	31474256.42	31474256.53	0.0089	0.0081
Venus	81462-02-07 11:03 G	31474481.96	31474481.96	31474481.98	0.0089	0.0089
Moon	81468-11-16 00:44 G	31476955.42	31476955.53	31476955.65	0.0090	0.0079
Earth	81468-11-16 00:29 G	31476955.46	31476955.52	31476955.64	0.0090	0.0084 *
Moon	81469-11-18 11:03 G	31477322.80	31477322.96	31477323.16	0.0090	0.0065
Earth	81469-11-18 12:15 G	31477322.85	31477323.01	31477323.22	0.0090	0.0061 *
Earth	81470-11-20 23:46 G	31477690.27	31477690.49	31477690.74	0.0090	0.0038
Moon	81470-11-21 01:41 G	31477690.36	31477690.57	31477690.82	0.0090	0.0034 *

Moon	81471-11-23 08:24 G	31478057.61	31478057.85	31478058.11	0.0090	0.0019
Earth	81471-11-23 11:32 G	31478057.73	31478057.98	31478058.24	0.0090	0.0015 *
Earth	81472-11-24 22:48 G	31478425.20	31478425.45	31478425.71	0.0090	0.0009
Moon	81472-11-25 02:10 G	31478425.35	31478425.59	31478425.85	0.0090	0.0014 *
Moon	81473-11-27 06:44 G	31478792.55	31478792.78	31478793.03	0.0090	0.0028
Earth	81473-11-27 10:05 G	31478792.70	31478792.92	31478793.17	0.0090	0.0032 *
Earth	81474-11-29 21:22 G	31479160.20	31479160.39	31479160.61	0.0090	0.0055
Moon	81474-11-30 00:58 G	31479160.35	31479160.54	31479160.74	0.0090	0.0059 *
Moon	81475-12-02 06:15 G	31479527.65	31479527.76	31479527.93	0.0090	0.0074
Earth	81475-12-02 08:24 G	31479527.75	31479527.85	31479528.00	0.0090	0.0078 *
Mercury	81484-01-27 23:17 G	31482506.40	31482506.47	31482506.55	0.0090	0.0080
Mercury	81484-04-25 02:10 G	31482594.49	31482594.59	31482594.70	0.0090	0.0070
Mercury	81484-07-22 04:48 G	31482682.59	31482682.70	31482682.84	0.0090	0.0061
Mercury	81484-10-18 07:41 G	31482770.69	31482770.82	31482770.98	0.0090	0.0051
Mercury	81485-01-14 10:34 G	31482858.80	31482858.94	31482859.11	0.0090	0.0041
Mercury	81485-04-12 13:27 G	31482946.90	31482947.06	31482947.23	0.0090	0.0031
Mercury	81485-07-09 16:20 G	31483035.02	31483035.18	31483035.35	0.0090	0.0021
Mercury	81485-10-05 19:12 G	31483123.13	31483123.30	31483123.47	0.0090	0.0011
Mercury	81486-01-01 22:05 G	31483211.24	31483211.42	31483211.59	0.0090	0.0002
Mercury	81486-03-31 00:44 G	31483299.36	31483299.53	31483299.70	0.0090	0.0008
Mercury	81486-06-27 03:36 G	31483387.48	31483387.65	31483387.81	0.0090	0.0018
Mercury	81486-09-23 06:00 G	31483475.60	31483475.75	31483475.92	0.0090	0.0028
Mercury	81486-12-20 08:39 G	31483563.72	31483563.86	31483564.03	0.0090	0.0038
Mercury	81487-03-18 11:32 G	31483651.84	31483651.98	31483652.13	0.0090	0.0047
Mercury	81487-06-14 14:24 G	31483739.97	31483740.10	31483740.23	0.0090	0.0056
Mercury	81487-09-10 16:48 G	31483828.10	31483828.20	31483828.33	0.0090	0.0066
Mercury	81487-12-07 19:41 G	31483916.23	31483916.32	31483916.41	0.0090	0.0075
Mercury	81488-03-04 22:05 G	31484004.38	31484004.42	31484004.49	0.0090	0.0085
Mars	81501-12-14 00:00 G	31489035.20	31489035.50	31489035.83	0.0089	0.0020
Venus	81531-04-08 12:44 G	31499743.00	31499743.03	31499743.12	0.0088	0.0086

Venus	81531-11-20 02:10 G	31499968.50	31499968.59	31499968.72	0.0088	0.0077
Venus	81532-07-02 15:36 G	31500194.02	31500194.15	31500194.31	0.0088	0.0068
Venus	81533-02-13 05:03 G	31500419.56	31500419.71	31500419.89	0.0088	0.0059
Venus	81533-09-26 18:29 G	31500645.09	31500645.27	31500645.46	0.0088	0.0050
Venus	81534-05-10 07:12 G	31500870.63	31500870.80	31500871.02	0.0088	0.0042
Venus	81534-12-21 20:39 G	31501096.17	31501096.36	31501096.58	0.0088	0.0032
Venus	81535-08-04 09:51 G	31501321.71	31501321.91	31501322.14	0.0088	0.0024
Venus	81536-03-16 23:17 G	31501547.26	31501547.47	31501547.70	0.0088	0.0014
Venus	81536-10-28 12:29 G	31501772.80	31501773.02	31501773.25	0.0088	0.0006
Venus	81537-06-11 01:56 G	31501998.35	31501998.58	31501998.80	0.0088	0.0004
Venus	81538-01-22 15:08 G	31502223.91	31502224.13	31502224.35	0.0088	0.0013
Venus	81538-09-05 04:05 G	31502449.47	31502449.67	31502449.90	0.0088	0.0023
Venus	81539-04-18 17:17 G	31502675.03	31502675.22	31502675.44	0.0088	0.0031
Venus	81539-11-30 06:29 G	31502900.59	31502900.77	31502900.98	0.0088	0.0040
Venus	81540-07-12 20:10 G	31503126.15	31503126.34	31503126.52	0.0088	0.0049
Venus	81541-02-23 09:22 G	31503351.73	31503351.89	31503352.07	0.0088	0.0057
Venus	81541-10-06 22:34 G	31503577.31	31503577.44	31503577.60	0.0088	0.0066
Jupiter	81541-11-08 20:24 G	31503609.88	31503610.35	31503610.83	0.0088	0.0038
Venus	81542-05-20 11:32 G	31503802.89	31503802.98	31503803.12	0.0088	0.0075
Venus	81543-01-01 00:44 G	31504028.49	31504028.53	31504028.62	0.0088	0.0084
Earth	81550-05-16 04:34 G	31506720.63	31506720.69	31506720.75	0.0088	0.0085
Moon	81551-05-18 13:41 G	31507087.89	31507088.07	31507088.28	0.0088	0.0061
Earth	81551-05-18 15:51 G	31507088.01	31507088.16	31507088.37	0.0088	0.0064 *
Earth	81552-05-20 04:05 G	31507455.44	31507455.67	31507455.90	0.0088	0.0041
Moon	81552-05-20 06:44 G	31507455.58	31507455.78	31507456.02	0.0088	0.0045 *
Moon	81553-05-22 12:29 G	31507822.76	31507823.02	31507823.28	0.0088	0.0016
Earth	81553-05-22 16:05 G	31507822.92	31507823.17	31507823.43	0.0088	0.0019 *
Earth	81554-05-25 04:05 G	31508190.41	31508190.67	31508190.93	0.0088	0.0003
Moon	81554-05-25 07:27 G	31508190.55	31508190.81	31508191.08	0.0088	0.0001 *
Moon	81555-05-27 12:29 G	31508557.79	31508558.02	31508558.28	0.0088	0.0030

Earth	81555-05-27 15:51 G	31508557.93	31508558.16	31508558.43	0.0088	0.0026 *
Earth	81556-05-29 03:51 G	31508925.45	31508925.66	31508925.89	0.0088	0.0048
Moon	81556-05-29 06:15 G	31508925.54	31508925.76	31508926.00	0.0088	0.0044 *
Moon	81557-05-31 14:39 G	31509292.98	31509293.11	31509293.26	0.0088	0.0073
Earth	81557-05-31 15:36 G	31509293.01	31509293.15	31509293.33	0.0088	0.0070 *
Moon	81558-06-03 04:20 G	31509660.68	31509660.68	31509660.69	0.0088	0.0088
Mercury	81565-10-25 06:58 G	31512361.76	31512361.79	31512361.84	0.0088	0.0084
Mercury	81566-01-21 08:53 G	31512449.80	31512449.87	31512449.94	0.0088	0.0076
Mercury	81566-04-19 10:05 G	31512537.85	31512537.92	31512538.02	0.0088	0.0069
Mercury	81566-07-16 11:46 G	31512625.90	31512625.99	31512626.10	0.0088	0.0062
Mercury	81566-10-12 13:27 G	31512713.95	31512714.06	31512714.18	0.0088	0.0054
Mercury	81567-01-08 14:53 G	31512802.01	31512802.12	31512802.25	0.0088	0.0047
Mercury	81567-04-06 16:48 G	31512890.07	31512890.20	31512890.33	0.0088	0.0039
Mercury	81567-07-03 18:15 G	31512978.13	31512978.26	31512978.40	0.0088	0.0032
Mercury	81567-09-29 19:56 G	31513066.20	31513066.33	31513066.47	0.0088	0.0024
Mercury	81567-12-26 21:36 G	31513154.26	31513154.40	31513154.55	0.0088	0.0016
Mercury	81568-03-23 23:17 G	31513242.33	31513242.47	31513242.62	0.0088	0.0009
Mercury	81568-06-20 00:58 G	31513330.39	31513330.54	31513330.69	0.0088	0.0001
Mercury	81568-09-16 02:39 G	31513418.46	31513418.61	31513418.75	0.0088	0.0007
Mercury	81568-12-13 04:20 G	31513506.54	31513506.68	31513506.82	0.0088	0.0014
Mercury	81569-03-11 06:00 G	31513594.61	31513594.75	31513594.89	0.0088	0.0022
Mercury	81569-06-07 07:41 G	31513682.68	31513682.82	31513682.96	0.0088	0.0030
Mercury	81569-09-03 09:08 G	31513770.76	31513770.88	31513771.02	0.0088	0.0038
Mercury	81569-11-30 10:48 G	31513858.84	31513858.95	31513859.08	0.0088	0.0046
Mercury	81570-02-26 12:44 G	31513946.92	31513947.03	31513947.15	0.0088	0.0053
Mercury	81570-05-25 14:24 G	31514035.00	31514035.10	31514035.21	0.0088	0.0061
Mercury	81570-08-21 15:51 G	31514123.08	31514123.16	31514123.26	0.0088	0.0069
Mercury	81570-11-17 17:32 G	31514211.18	31514211.23	31514211.31	0.0088	0.0077
Mercury	81571-02-13 19:12 G	31514299.28	31514299.30	31514299.35	0.0088	0.0085
Mars	81585-10-05 10:34 G	31519646.69	31519646.94	31519647.23	0.0088	0.0040

Saturn	81586-08-22 03:08 G	31519966.92	31519967.63	31519968.34	0.0088	0.0001
Venus	81614-08-18 19:56 G	31530191.26	31530191.33	31530191.41	0.0089	0.0083
Venus	81615-04-01 08:10 G	31530416.75	31530416.84	31530416.98	0.0089	0.0075
Venus	81615-11-12 20:53 G	31530642.25	31530642.37	31530642.54	0.0089	0.0067
Venus	81616-06-25 09:51 G	31530867.76	31530867.91	31530868.10	0.0089	0.0057
Venus	81617-02-05 22:48 G	31531093.28	31531093.45	31531093.65	0.0089	0.0048
Venus	81617-09-19 11:32 G	31531318.80	31531318.98	31531319.19	0.0089	0.0039
Venus	81618-05-03 00:29 G	31531544.33	31531544.52	31531544.74	0.0089	0.0030
Venus	81618-12-14 13:12 G	31531769.85	31531770.05	31531770.28	0.0089	0.0021
Venus	81619-07-28 02:24 G	31531995.39	31531995.60	31531995.82	0.0089	0.0012
Venus	81620-03-09 15:22 G	31532220.92	31532221.14	31532221.36	0.0089	0.0003
Venus	81620-10-21 04:05 G	31532446.45	31532446.67	31532446.89	0.0089	0.0007
Venus	81621-06-03 16:48 G	31532671.99	31532672.20	31532672.42	0.0089	0.0016
Venus	81622-01-15 05:17 G	31532897.53	31532897.72	31532897.94	0.0089	0.0025
Venus	81622-08-28 18:15 G	31533123.07	31533123.26	31533123.47	0.0089	0.0034
Venus	81623-04-11 06:58 G	31533348.61	31533348.79	31533349.00	0.0089	0.0043
Venus	81623-11-22 19:41 G	31533574.16	31533574.32	31533574.51	0.0089	0.0052
Venus	81624-07-05 08:24 G	31533799.71	31533799.85	31533800.03	0.0089	0.0061
Venus	81625-02-15 21:36 G	31534025.27	31534025.40	31534025.53	0.0089	0.0070
Venus	81625-09-29 10:20 G	31534250.83	31534250.93	31534251.03	0.0089	0.0079
Venus	81626-05-12 23:03 G	31534476.43	31534476.46	31534476.50	0.0089	0.0088
Earth	81633-11-18 23:17 G	31537223.32	31537223.47	31537223.66	0.0090	0.0068
Moon	81633-11-19 01:56 G	31537223.44	31537223.58	31537223.77	0.0090	0.0068 *
Moon	81634-11-21 07:41 G	31537590.62	31537590.82	31537591.06	0.0090	0.0046
Earth	81634-11-21 11:03 G	31537590.75	31537590.96	31537591.19	0.0090	0.0045 *
Earth	81635-11-23 22:34 G	31537958.19	31537958.44	31537958.69	0.0090	0.0022
Moon	81635-11-24 01:56 G	31537958.34	31537958.58	31537958.84	0.0090	0.0021 *
Moon	81636-11-25 06:44 G	31538325.53	31538325.78	31538326.03	0.0090	0.0000
Earth	81636-11-25 10:05 G	31538325.67	31538325.92	31538326.18	0.0090	0.0001 *
Earth	81637-11-27 21:22 G	31538693.15	31538693.39	31538693.64	0.0090	0.0024

Moon	81637-11-28 00:00 G	31538693.26	31538693.50	31538693.76	0.0090	0.0026 *
Moon	81638-11-30 06:29 G	31539060.56	31539060.77	31539060.99	0.0090	0.0045
Earth	81638-11-30 08:24 G	31539060.65	31539060.85	31539061.08	0.0090	0.0047 *
Earth	81639-12-02 19:27 G	31539428.17	31539428.31	31539428.49	0.0090	0.0070
Moon	81639-12-02 19:56 G	31539428.20	31539428.33	31539428.52	0.0090	0.0071 *
Mercury	81648-07-28 19:27 G	31542589.26	31542589.31	31542589.38	0.0090	0.0084
Mercury	81648-10-24 22:20 G	31542677.34	31542677.43	31542677.54	0.0090	0.0074
Mercury	81649-01-21 01:12 G	31542765.44	31542765.55	31542765.68	0.0090	0.0064
Mercury	81649-04-19 04:05 G	31542853.54	31542853.67	31542853.82	0.0090	0.0054
Mercury	81649-07-16 06:58 G	31542941.65	31542941.79	31542941.95	0.0090	0.0044
Mercury	81649-10-12 10:05 G	31543029.76	31543029.92	31543030.08	0.0090	0.0034
Mercury	81650-01-08 12:44 G	31543117.87	31543118.03	31543118.20	0.0090	0.0024
Mercury	81650-04-06 15:36 G	31543205.98	31543206.15	31543206.32	0.0090	0.0014
Mercury	81650-07-03 18:29 G	31543294.09	31543294.27	31543294.44	0.0090	0.0005
Mercury	81650-09-29 21:08 G	31543382.21	31543382.38	31543382.56	0.0090	0.0005
Mercury	81650-12-27 00:00 G	31543470.33	31543470.50	31543470.67	0.0090	0.0015
Mercury	81651-03-25 02:39 G	31543558.45	31543558.61	31543558.78	0.0090	0.0024
Mercury	81651-06-21 05:17 G	31543646.57	31543646.72	31543646.89	0.0090	0.0034
Mercury	81651-09-17 07:56 G	31543734.69	31543734.83	31543734.99	0.0090	0.0044
Mercury	81651-12-14 10:48 G	31543822.82	31543822.95	31543823.09	0.0090	0.0053
Mercury	81652-03-11 13:12 G	31543910.95	31543911.05	31543911.19	0.0090	0.0063
Mercury	81652-06-07 16:05 G	31543999.08	31543999.17	31543999.28	0.0090	0.0072
Mercury	81652-09-03 18:29 G	31544087.22	31544087.27	31544087.36	0.0090	0.0082
Mars	81665-07-28 05:46 G	31548797.60	31548797.74	31548797.93	0.0089	0.0077
Mars	81667-06-23 15:22 G	31549492.99	31549493.14	31549493.37	0.0089	0.0073
Venus	81695-07-10 23:46 G	31559737.48	31559737.49	31559737.54	0.0088	0.0088
Venus	81696-02-21 13:12 G	31559962.97	31559963.05	31559963.17	0.0088	0.0079
Venus	81696-10-04 02:39 G	31560188.49	31560188.61	31560188.76	0.0088	0.0070
Venus	81697-05-17 16:05 G	31560414.01	31560414.17	31560414.33	0.0088	0.0061
Venus	81697-12-29 05:32 G	31560639.55	31560639.73	31560639.91	0.0088	0.0052

Venus	81698-08-11 18:15 G	31560865.09	31560865.26	31560865.48	0.0088	0.0044
Venus	81699-03-25 07:41 G	31561090.63	31561090.82	31561091.04	0.0088	0.0034
Venus	81699-11-05 20:53 G	31561316.17	31561316.37	31561316.60	0.0088	0.0026
Venus	81700-06-19 10:20 G	31561541.72	31561541.93	31561542.16	0.0088	0.0016
Venus	81701-01-30 23:46 G	31561767.27	31561767.49	31561767.72	0.0088	0.0007
Venus	81701-09-13 12:58 G	31561992.82	31561993.04	31561993.27	0.0088	0.0003
Venus	81702-04-27 02:10 G	31562218.37	31562218.59	31562218.81	0.0088	0.0011
Venus	81702-12-08 15:22 G	31562443.93	31562444.14	31562444.36	0.0088	0.0020
Venus	81703-07-22 04:34 G	31562669.48	31562669.69	31562669.91	0.0088	0.0029
Venus	81704-03-03 17:46 G	31562895.05	31562895.24	31562895.45	0.0088	0.0038
Venus	81704-10-15 06:58 G	31563120.61	31563120.79	31563120.99	0.0088	0.0047
Venus	81705-05-28 19:56 G	31563346.18	31563346.33	31563346.52	0.0088	0.0057
Venus	81706-01-09 09:22 G	31563571.76	31563571.89	31563572.06	0.0088	0.0065
Venus	81706-08-22 22:20 G	31563797.34	31563797.43	31563797.58	0.0088	0.0074
Venus	81707-04-05 12:15 G	31564022.94	31564023.01	31564023.09	0.0088	0.0082
Earth	81715-05-19 02:10 G	31566988.44	31566988.59	31566988.75	0.0088	0.0070
Moon	81715-05-19 05:17 G	31566988.57	31566988.72	31566988.90	0.0088	0.0066 *
Moon	81716-05-20 10:05 G	31567355.73	31567355.92	31567356.15	0.0088	0.0052
Earth	81716-05-20 13:56 G	31567355.87	31567356.08	31567356.30	0.0088	0.0048 *
Earth	81717-05-23 01:41 G	31567723.32	31567723.57	31567723.82	0.0088	0.0026
Moon	81717-05-23 05:17 G	31567723.47	31567723.72	31567723.98	0.0088	0.0022 *
Moon	81718-05-25 11:03 G	31568090.71	31568090.96	31568091.22	0.0088	0.0008
Earth	81718-05-25 13:41 G	31568090.81	31568091.07	31568091.33	0.0088	0.0004 *
Earth	81719-05-28 01:27 G	31568458.31	31568458.56	31568458.82	0.0088	0.0018
Moon	81719-05-28 03:51 G	31568458.40	31568458.66	31568458.92	0.0088	0.0021 *
Moon	81720-05-29 12:29 G	31568825.81	31568826.02	31568826.26	0.0088	0.0037
Earth	81720-05-29 13:27 G	31568825.83	31568826.06	31568826.29	0.0088	0.0040 *
Moon	81721-06-01 00:15 G	31569193.35	31569193.51	31569193.71	0.0088	0.0066
Earth	81721-06-01 01:27 G	31569193.38	31569193.56	31569193.75	0.0088	0.0062 *
Earth	81722-06-03 13:27 G	31569561.00	31569561.06	31569561.14	0.0088	0.0084



Moon	81722-06-03 14:10 G	31569561.03	31569561.09	31569561.22	0.0088	0.0082 *
Mercury	81730-04-26 05:17 G	31572444.70	31572444.72	31572444.75	0.0088	0.0086
Mercury	81730-07-23 06:44 G	31572532.73	31572532.78	31572532.85	0.0088	0.0079
Mercury	81730-10-19 08:10 G	31572620.77	31572620.84	31572620.94	0.0088	0.0072
Mercury	81731-01-15 09:51 G	31572708.82	31572708.91	31572709.02	0.0088	0.0064
Mercury	81731-04-13 11:17 G	31572796.88	31572796.97	31572797.10	0.0088	0.0057
Mercury	81731-07-10 13:12 G	31572884.93	31572885.05	31572885.17	0.0088	0.0049
Mercury	81731-10-06 14:39 G	31572972.99	31572973.11	31572973.25	0.0088	0.0042
Mercury	81732-01-02 16:20 G	31573061.05	31573061.18	31573061.32	0.0088	0.0034
Mercury	81732-03-30 18:00 G	31573149.12	31573149.25	31573149.39	0.0088	0.0026
Mercury	81732-06-26 19:41 G	31573237.18	31573237.32	31573237.46	0.0088	0.0019
Mercury	81732-09-22 21:22 G	31573325.25	31573325.39	31573325.53	0.0088	0.0011
Mercury	81732-12-19 23:03 G	31573413.31	31573413.46	31573413.60	0.0088	0.0004
Mercury	81733-03-18 00:44 G	31573501.38	31573501.53	31573501.67	0.0088	0.0004
Mercury	81733-06-14 02:24 G	31573589.45	31573589.60	31573589.74	0.0088	0.0012
Mercury	81733-09-10 03:51 G	31573677.52	31573677.66	31573677.81	0.0088	0.0020
Mercury	81733-12-07 05:32 G	31573765.60	31573765.73	31573765.87	0.0088	0.0027
Mercury	81734-03-05 07:12 G	31573853.67	31573853.80	31573853.94	0.0088	0.0035
Mercury	81734-06-01 08:53 G	31573941.75	31573941.87	31573942.00	0.0088	0.0043
Mercury	81734-08-28 10:34 G	31574029.83	31574029.94	31574030.07	0.0088	0.0051
Mercury	81734-11-24 12:15 G	31574117.91	31574118.01	31574118.13	0.0088	0.0058
Mercury	81735-02-20 14:10 G	31574205.99	31574206.09	31574206.18	0.0088	0.0066
Mercury	81735-05-19 15:51 G	31574294.08	31574294.16	31574294.24	0.0088	0.0074
Mercury	81735-08-15 17:17 G	31574382.18	31574382.22	31574382.28	0.0088	0.0082
Mars	81749-05-21 17:03 G	31579409.90	31579410.21	31579410.51	0.0088	0.0010
Venus	81778-11-21 07:27 G	31590185.78	31590185.81	31590185.89	0.0089	0.0086
Venus	81779-07-04 20:10 G	31590411.26	31590411.34	31590411.48	0.0089	0.0077
Venus	81780-02-15 09:08 G	31590636.76	31590636.88	31590637.04	0.0089	0.0068
Venus	81780-09-27 21:51 G	31590862.27	31590862.41	31590862.59	0.0089	0.0059
Venus	81781-05-11 10:34 G	31591087.78	31591087.94	31591088.14	0.0089	0.0050

Venus	81781-12-22 23:17 G	31591313.30	31591313.47	31591313.68	0.0089	0.0042
Venus	81782-08-05 12:15 G	31591538.83	31591539.01	31591539.23	0.0089	0.0033
Venus	81783-03-19 01:12 G	31591764.35	31591764.55	31591764.77	0.0089	0.0023
Venus	81783-10-30 14:10 G	31591989.88	31591990.09	31591990.31	0.0089	0.0014
Venus	81784-06-12 02:53 G	31592215.41	31592215.62	31592215.84	0.0089	0.0005
Venus	81785-01-23 15:51 G	31592440.94	31592441.16	31592441.38	0.0089	0.0005
Venus	81785-09-06 04:34 G	31592666.48	31592666.69	31592666.91	0.0089	0.0014
Venus	81786-04-19 17:17 G	31592892.02	31592892.22	31592892.44	0.0089	0.0023
Venus	81786-12-01 06:00 G	31593117.56	31593117.75	31593117.97	0.0089	0.0032
Venus	81787-07-14 18:58 G	31593343.11	31593343.29	31593343.49	0.0089	0.0041
Venus	81788-02-25 07:41 G	31593568.65	31593568.82	31593569.01	0.0089	0.0050
Venus	81788-10-07 20:24 G	31593794.20	31593794.35	31593794.52	0.0089	0.0060
Venus	81789-05-21 09:08 G	31594019.76	31594019.88	31594020.03	0.0089	0.0069
Venus	81790-01-01 21:51 G	31594245.32	31594245.41	31594245.53	0.0089	0.0078
Venus	81790-08-15 10:34 G	31594470.91	31594470.94	31594471.02	0.0089	0.0087
Moon	81797-11-19 06:29 G	31597123.62	31597123.77	31597123.94	0.0090	0.0070
Earth	81797-11-19 09:36 G	31597123.79	31597123.90	31597124.07	0.0090	0.0076 *
Earth	81798-11-21 21:22 G	31597491.20	31597491.39	31597491.62	0.0090	0.0053
Moon	81798-11-22 01:12 G	31597491.36	31597491.55	31597491.75	0.0090	0.0057 *
Moon	81799-11-24 06:00 G	31597858.52	31597858.75	31597859.00	0.0090	0.0025
Earth	81799-11-24 09:22 G	31597858.66	31597858.89	31597859.14	0.0090	0.0030 *
Earth	81800-11-26 20:53 G	31598226.12	31598226.37	31598226.63	0.0090	0.0007
Moon	81800-11-26 23:32 G	31598226.23	31598226.48	31598226.75	0.0090	0.0012 *
Moon	81801-11-29 07:12 G	31598593.56	31598593.80	31598594.04	0.0090	0.0021
Earth	81801-11-29 08:10 G	31598593.60	31598593.84	31598594.10	0.0090	0.0017 *
Earth	81802-12-01 19:27 G	31598961.10	31598961.31	31598961.56	0.0090	0.0040
Moon	81802-12-01 20:24 G	31598961.11	31598961.35	31598961.60	0.0090	0.0035 *
Earth	81803-12-04 06:58 G	31599328.62	31599328.79	31599328.99	0.0090	0.0062
Moon	81803-12-04 07:56 G	31599328.68	31599328.83	31599329.01	0.0090	0.0067 *
Moon	81804-12-05 16:05 G	31599696.07	31599696.17	31599696.30	0.0090	0.0080

Earth	81804-12-05 18:15 G	31599696.20	31599696.26	31599696.36	0.0090	0.0085 *
Mercury	81813-01-28 15:51 G	31602672.13	31602672.16	31602672.21	0.0090	0.0087
Mercury	81813-04-26 18:44 G	31602760.21	31602760.28	31602760.38	0.0090	0.0077
Mercury	81813-07-23 21:36 G	31602848.30	31602848.40	31602848.53	0.0090	0.0067
Mercury	81813-10-20 00:44 G	31602936.40	31602936.53	31602936.67	0.0090	0.0057
Mercury	81814-01-16 03:36 G	31603024.51	31603024.65	31603024.80	0.0090	0.0047
Mercury	81814-04-14 06:29 G	31603112.61	31603112.77	31603112.93	0.0090	0.0037
Mercury	81814-07-11 09:22 G	31603200.73	31603200.89	31603201.06	0.0090	0.0027
Mercury	81814-10-07 12:00 G	31603288.84	31603289.00	31603289.18	0.0090	0.0018
Mercury	81815-01-03 14:53 G	31603376.95	31603377.12	31603377.30	0.0090	0.0008
Mercury	81815-04-01 17:46 G	31603465.07	31603465.24	31603465.42	0.0090	0.0003
Mercury	81815-06-28 20:39 G	31603553.19	31603553.36	31603553.53	0.0090	0.0012
Mercury	81815-09-24 23:17 G	31603641.31	31603641.47	31603641.64	0.0090	0.0022
Mercury	81815-12-22 01:56 G	31603729.43	31603729.58	31603729.75	0.0090	0.0031
Mercury	81816-03-19 04:48 G	31603817.55	31603817.70	31603817.86	0.0090	0.0041
Mercury	81816-06-15 07:12 G	31603905.68	31603905.80	31603905.96	0.0090	0.0051
Mercury	81816-09-11 10:05 G	31603993.80	31603993.92	31603994.06	0.0090	0.0060
Mercury	81816-12-08 12:29 G	31604081.93	31604082.02	31604082.15	0.0090	0.0070
Mercury	81817-03-06 15:22 G	31604170.07	31604170.14	31604170.23	0.0090	0.0079
Mercury	81817-06-02 18:15 G	31604258.24	31604258.26	31604258.29	0.0090	0.0088
Mars	81831-02-06 22:05 G	31609255.10	31609255.42	31609255.74	0.0089	0.0015
Venus	81860-05-27 00:00 G	31619957.43	31619957.50	31619957.60	0.0088	0.0081
Venus	81861-01-07 13:27 G	31620182.94	31620183.06	31620183.20	0.0088	0.0072
Venus	81861-08-21 02:53 G	31620408.47	31620408.62	31620408.78	0.0088	0.0063
Venus	81862-04-03 16:20 G	31620634.01	31620634.18	31620634.36	0.0088	0.0054
Venus	81862-11-15 05:32 G	31620859.54	31620859.73	31620859.92	0.0088	0.0045
Venus	81863-06-28 18:29 G	31621085.08	31621085.27	31621085.49	0.0088	0.0036
Venus	81864-02-09 07:56 G	31621310.63	31621310.83	31621311.06	0.0088	0.0027
Venus	81864-09-21 21:36 G	31621536.18	31621536.40	31621536.62	0.0088	0.0018
Venus	81865-05-05 10:34 G	31621761.73	31621761.94	31621762.17	0.0088	0.0009

Venus	81865-12-17 00:00 G	31621987.28	31621987.50	31621987.72	0.0088	0.0000
Venus	81866-07-30 13:12 G	31622212.83	31622213.05	31622213.27	0.0088	0.0009
Venus	81867-03-13 02:24 G	31622438.39	31622438.60	31622438.82	0.0088	0.0019
Venus	81867-10-24 15:36 G	31622663.94	31622664.15	31622664.37	0.0088	0.0028
Venus	81868-06-06 04:48 G	31622889.50	31622889.70	31622889.91	0.0088	0.0036
Venus	81869-01-17 18:00 G	31623115.07	31623115.25	31623115.45	0.0088	0.0046
Venus	81869-08-31 07:12 G	31623340.64	31623340.80	31623340.99	0.0088	0.0054
Venus	81870-04-13 20:24 G	31623566.21	31623566.35	31623566.52	0.0088	0.0063
Venus	81870-11-25 09:36 G	31623791.79	31623791.90	31623792.04	0.0088	0.0072
Venus	81871-07-08 22:34 G	31624017.38	31624017.44	31624017.55	0.0088	0.0081
Moon	81879-05-19 08:53 G	31626888.77	31626888.87	31626889.01	0.0088	0.0078
Earth	81879-05-19 12:15 G	31626888.91	31626889.01	31626889.16	0.0088	0.0077 *
Earth	81880-05-21 00:00 G	31627256.32	31627256.50	31627256.72	0.0088	0.0055
Moon	81880-05-21 03:36 G	31627256.44	31627256.65	31627256.87	0.0088	0.0052 *
Moon	81881-05-23 09:22 G	31627623.67	31627623.89	31627624.14	0.0088	0.0036
Earth	81881-05-23 12:00 G	31627623.77	31627624.00	31627624.25	0.0088	0.0033 *
Earth	81882-05-26 00:00 G	31627991.24	31627991.50	31627991.76	0.0088	0.0011
Moon	81882-05-26 01:12 G	31627991.28	31627991.55	31627991.82	0.0088	0.0009 *
Moon	81883-05-28 11:17 G	31628358.72	31628358.97	31628359.23	0.0088	0.0009
Earth	81883-05-28 11:46 G	31628358.73	31628358.99	31628359.25	0.0088	0.0011 *
Moon	81884-05-29 22:05 G	31628726.19	31628726.42	31628726.69	0.0088	0.0036
Earth	81884-05-29 23:32 G	31628726.24	31628726.48	31628726.73	0.0088	0.0033 *
Earth	81885-06-01 11:17 G	31629093.78	31629093.97	31629094.18	0.0088	0.0055
Moon	81885-06-01 13:41 G	31629093.88	31629094.07	31629094.28	0.0088	0.0053 *
Moon	81886-06-03 19:56 G	31629461.25	31629461.33	31629461.47	0.0088	0.0080
Earth	81886-06-03 23:17 G	31629461.36	31629461.47	31629461.61	0.0088	0.0077 *
Mercury	81895-01-22 05:03 G	31632615.66	31632615.71	31632615.77	0.0088	0.0081
Mercury	81895-04-20 06:29 G	31632703.70	31632703.77	31632703.85	0.0088	0.0074
Mercury	81895-07-17 08:10 G	31632791.75	31632791.84	31632791.94	0.0088	0.0066
Mercury	81895-10-13 09:36 G	31632879.80	31632879.90	31632880.01	0.0088	0.0059

Mercury	81896-01-09 11:03 G	31632967.86	31632967.96	31632968.09	0.0088	0.0052
Mercury	81896-04-06 12:58 G	31633055.92	31633056.04	31633056.17	0.0088	0.0044
Mercury	81896-07-03 14:24 G	31633143.98	31633144.10	31633144.24	0.0088	0.0037
Mercury	81896-09-29 16:05 G	31633232.04	31633232.17	31633232.31	0.0088	0.0029
Mercury	81896-12-26 17:46 G	31633320.10	31633320.24	31633320.38	0.0088	0.0021
Mercury	81897-03-24 19:27 G	31633408.17	31633408.31	31633408.45	0.0088	0.0014
Mercury	81897-06-20 21:08 G	31633496.23	31633496.38	31633496.52	0.0088	0.0006
Mercury	81897-09-16 22:48 G	31633584.30	31633584.45	31633584.59	0.0088	0.0003
Mercury	81897-12-14 00:15 G	31633672.37	31633672.51	31633672.66	0.0088	0.0009
Mercury	81898-03-12 01:56 G	31633760.44	31633760.58	31633760.73	0.0088	0.0017
Mercury	81898-06-08 03:36 G	31633848.51	31633848.65	31633848.79	0.0088	0.0025
Mercury	81898-09-04 05:03 G	31633936.59	31633936.71	31633936.86	0.0088	0.0033
Mercury	81898-12-01 06:58 G	31634024.66	31634024.79	31634024.92	0.0088	0.0040
Mercury	81899-02-27 08:39 G	31634112.74	31634112.86	31634112.98	0.0088	0.0048
Mercury	81899-05-26 10:05 G	31634200.82	31634200.92	31634201.05	0.0088	0.0056
Mercury	81899-08-22 11:46 G	31634288.90	31634288.99	31634289.10	0.0088	0.0064
Mercury	81899-11-18 13:27 G	31634376.99	31634377.06	31634377.16	0.0088	0.0072
Mercury	81900-02-14 15:22 G	31634465.09	31634465.14	31634465.21	0.0088	0.0079
Mercury	81900-05-13 17:03 G	31634553.20	31634553.21	31634553.23	0.0088	0.0087
Mars	81913-01-05 19:56 G	31639173.11	31639173.33	31639173.56	0.0088	0.0060
Mars	81914-12-01 02:39 G	31639867.46	31639867.61	31639867.81	0.0088	0.0072
Venus	81943-02-24 19:27 G	31650180.30	31650180.31	31650180.37	0.0089	0.0088
Venus	81943-10-08 08:10 G	31650405.77	31650405.84	31650405.96	0.0089	0.0079
Venus	81944-05-20 21:08 G	31650631.26	31650631.38	31650631.53	0.0089	0.0070
Venus	81945-01-01 09:51 G	31650856.77	31650856.91	31650857.08	0.0089	0.0061
Venus	81945-08-14 22:48 G	31651082.29	31651082.45	31651082.64	0.0089	0.0052
Venus	81946-03-28 11:32 G	31651307.80	31651307.98	31651308.19	0.0089	0.0043
Venus	81946-11-09 00:15 G	31651533.32	31651533.51	31651533.73	0.0089	0.0034
Venus	81947-06-22 12:58 G	31651758.85	31651759.04	31651759.27	0.0089	0.0026
Venus	81948-02-03 02:10 G	31651984.38	31651984.59	31651984.80	0.0089	0.0016

Venus	81948-09-15 14:53 G	31652209.91	31652210.12	31652210.34	0.0089	0.0007
Venus	81949-04-29 03:51 G	31652435.44	31652435.66	31652435.87	0.0089	0.0003
Venus	81949-12-10 16:20 G	31652660.97	31652661.18	31652661.41	0.0089	0.0013
Venus	81950-07-24 05:17 G	31652886.52	31652886.72	31652886.94	0.0089	0.0021
Venus	81951-03-06 18:15 G	31653112.06	31653112.26	31653112.47	0.0089	0.0030
Venus	81951-10-18 06:58 G	31653337.60	31653337.79	31653337.99	0.0089	0.0040
Venus	81952-05-30 19:41 G	31653563.15	31653563.32	31653563.51	0.0089	0.0049
Venus	81953-01-11 08:39 G	31653788.70	31653788.86	31653789.03	0.0089	0.0058
Venus	81953-08-24 21:36 G	31654014.26	31654014.40	31654014.55	0.0089	0.0067
Venus	81954-04-07 10:20 G	31654239.82	31654239.93	31654240.05	0.0089	0.0076
Venus	81954-11-18 23:03 G	31654465.40	31654465.46	31654465.53	0.0089	0.0085
Earth	81961-11-20 20:24 G	31657024.28	31657024.35	31657024.47	0.0090	0.0083
Moon	81961-11-21 00:00 G	31657024.43	31657024.50	31657024.63	0.0090	0.0083 *
Moon	81962-11-23 05:32 G	31657391.57	31657391.73	31657391.93	0.0090	0.0061
Earth	81962-11-23 08:24 G	31657391.68	31657391.85	31657392.05	0.0090	0.0060 *
Earth	81963-11-25 20:10 G	31657759.12	31657759.34	31657759.58	0.0090	0.0037
Moon	81963-11-25 22:20 G	31657759.21	31657759.43	31657759.69	0.0090	0.0038 *
Moon	81964-11-27 06:29 G	31658126.54	31658126.77	31658127.03	0.0090	0.0015
Earth	81964-11-27 07:56 G	31658126.58	31658126.83	31658127.08	0.0090	0.0014 *
Moon	81965-11-29 18:58 G	31658494.03	31658494.29	31658494.56	0.0090	0.0009
Earth	81965-11-29 19:27 G	31658494.06	31658494.31	31658494.57	0.0090	0.0009 *
Earth	81966-12-02 06:44 G	31658861.55	31658861.78	31658862.03	0.0090	0.0032
Moon	81966-12-02 08:10 G	31658861.61	31658861.84	31658862.07	0.0090	0.0032 *
Moon	81967-12-04 15:51 G	31659228.96	31659229.16	31659229.37	0.0090	0.0054
Earth	81967-12-04 18:00 G	31659229.07	31659229.25	31659229.47	0.0090	0.0055 *
Earth	81968-12-06 05:32 G	31659596.61	31659596.73	31659596.87	0.0090	0.0077
Moon	81968-12-06 08:39 G	31659596.75	31659596.86	31659597.00	0.0090	0.0077 *
Mercury	81977-10-26 14:53 G	31662843.06	31662843.12	31662843.21	0.0090	0.0081
Mercury	81978-01-22 17:46 G	31662931.15	31662931.24	31662931.37	0.0090	0.0071
Mercury	81978-04-20 20:53 G	31663019.25	31663019.37	31663019.51	0.0090	0.0060

Mercury	81978-07-17 23:46 G	31663107.36	31663107.49	31663107.65	0.0090	0.0051
Mercury	81978-10-14 02:39 G	31663195.47	31663195.61	31663195.78	0.0090	0.0041
Mercury	81979-01-10 05:32 G	31663283.58	31663283.73	31663283.91	0.0090	0.0031
Mercury	81979-04-08 08:39 G	31663371.69	31663371.86	31663372.03	0.0090	0.0021
Mercury	81979-07-05 11:32 G	31663459.81	31663459.98	31663460.15	0.0090	0.0011
Mercury	81979-10-01 14:24 G	31663547.92	31663548.10	31663548.27	0.0090	0.0002
Mercury	81979-12-28 17:03 G	31663636.04	31663636.21	31663636.39	0.0090	0.0009
Mercury	81980-03-25 19:56 G	31663724.16	31663724.33	31663724.50	0.0090	0.0019
Mercury	81980-06-21 22:34 G	31663812.28	31663812.44	31663812.61	0.0090	0.0028
Mercury	81980-09-18 01:27 G	31663900.41	31663900.56	31663900.72	0.0090	0.0038
Mercury	81980-12-15 03:51 G	31663988.53	31663988.66	31663988.82	0.0090	0.0048
Mercury	81981-03-13 06:58 G	31664076.66	31664076.79	31664076.92	0.0090	0.0057
Mercury	81981-06-09 09:22 G	31664164.79	31664164.89	31664165.02	0.0090	0.0067
Mercury	81981-09-05 12:15 G	31664252.93	31664253.01	31664253.10	0.0090	0.0076
Mercury	81981-12-02 14:39 G	31664341.08	31664341.11	31664341.18	0.0090	0.0086
Mars	81994-09-22 06:00 G	31669017.48	31669017.75	31669018.05	0.0089	0.0041

# 83RD MILLENNIUM CE

**This is a list of transits visible from Neptune in the 83rd millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	82024-08-29 11:17 G	31679951.91	31679951.97	31679952.06	0.0088	0.0083		
Venus	82025-04-12 00:44 G	31680177.41	31680177.53	31680177.65	0.0088	0.0074		

Venus	82025-11-23 13:56 G	31680402.94	31680403.08	31680403.24	0.0088	0.0065
Venus	82026-07-07 03:22 G	31680628.47	31680628.64	31680628.81	0.0088	0.0056
Venus	82027-02-17 16:48 G	31680854.01	31680854.20	31680854.39	0.0088	0.0047
Venus	82027-10-01 06:00 G	31681079.55	31681079.75	31681079.96	0.0088	0.0038
Venus	82028-05-13 19:12 G	31681305.10	31681305.30	31681305.52	0.0088	0.0029
Venus	82028-12-25 08:39 G	31681530.64	31681530.86	31681531.08	0.0088	0.0020
Venus	82029-08-07 21:51 G	31681756.19	31681756.41	31681756.64	0.0088	0.0011
Venus	82030-03-21 11:17 G	31681981.75	31681981.97	31681982.19	0.0088	0.0001
Venus	82030-11-02 00:29 G	31682207.30	31682207.52	31682207.74	0.0088	0.0008
Venus	82031-06-15 13:27 G	31682432.85	31682433.06	31682433.29	0.0088	0.0017
Venus	82032-01-27 02:53 G	31682658.41	31682658.62	31682658.84	0.0088	0.0026
Venus	82032-09-08 16:05 G	31682883.97	31682884.17	31682884.38	0.0088	0.0035
Venus	82033-04-22 05:03 G	31683109.53	31683109.71	31683109.92	0.0088	0.0044
Venus	82033-12-03 18:15 G	31683335.10	31683335.26	31683335.45	0.0088	0.0053
Venus	82034-07-17 07:27 G	31683560.67	31683560.81	31683560.98	0.0088	0.0062
Venus	82035-02-27 20:39 G	31683786.25	31683786.36	31683786.51	0.0088	0.0071
Venus	82035-10-11 09:36 G	31684011.84	31684011.90	31684012.02	0.0088	0.0080
Earth	82043-05-19 22:20 G	31686789.37	31686789.43	31686789.53	0.0088	0.0083
Moon	82043-05-20 01:27 G	31686789.56	31686789.56	31686789.58	0.0088	0.0088
Moon	82044-05-21 08:10 G	31687156.67	31687156.84	31687157.05	0.0088	0.0058
Earth	82044-05-21 10:05 G	31687156.76	31687156.92	31687157.13	0.0088	0.0062 *
Earth	82045-05-23 21:51 G	31687524.20	31687524.41	31687524.66	0.0088	0.0040
Moon	82045-05-23 23:03 G	31687524.25	31687524.46	31687524.71	0.0088	0.0044 *
Earth	82046-05-26 09:51 G	31687891.66	31687891.91	31687892.17	0.0088	0.0018
Moon	82046-05-26 10:34 G	31687891.70	31687891.94	31687892.20	0.0088	0.0014 *
Moon	82047-05-28 20:10 G	31688259.07	31688259.34	31688259.61	0.0088	0.0001
Earth	82047-05-28 21:51 G	31688259.15	31688259.41	31688259.67	0.0088	0.0004 *
Earth	82048-05-30 09:22 G	31688626.65	31688626.89	31688627.15	0.0088	0.0026
Moon	82048-05-30 12:00 G	31688626.76	31688627.00	31688627.24	0.0088	0.0030 *
Moon	82049-06-01 17:46 G	31688994.02	31688994.24	31688994.48	0.0088	0.0043



Earth	82049-06-01 21:08 G	31688994.18	31688994.38	31688994.62	0.0088	0.0048	*
Earth	82050-06-04 08:53 G	31689361.73	31689361.87	31689362.05	0.0088	0.0070	
Moon	82050-06-04 12:15 G	31689361.90	31689362.01	31689362.17	0.0088	0.0074	*
Moon	82051-06-06 17:03 G	31689729.21	31689729.21	31689729.26	0.0088	0.0088	
Mercury	82059-07-24 03:08 G	31692698.60	31692698.63	31692698.69	0.0088	0.0083	
Mercury	82059-10-20 04:34 G	31692786.64	31692786.69	31692786.78	0.0088	0.0076	
Mercury	82060-01-16 06:29 G	31692874.68	31692874.77	31692874.86	0.0088	0.0068	
Mercury	82060-04-13 07:56 G	31692962.74	31692962.83	31692962.94	0.0088	0.0061	
Mercury	82060-07-10 09:22 G	31693050.79	31693050.89	31693051.02	0.0088	0.0054	
Mercury	82060-10-06 11:03 G	31693138.85	31693138.96	31693139.09	0.0088	0.0046	
Mercury	82061-01-02 12:44 G	31693226.91	31693227.03	31693227.16	0.0088	0.0039	
Mercury	82061-03-31 14:24 G	31693314.97	31693315.10	31693315.23	0.0088	0.0031	
Mercury	82061-06-27 15:51 G	31693403.03	31693403.16	31693403.31	0.0088	0.0024	
Mercury	82061-09-23 17:32 G	31693491.09	31693491.23	31693491.38	0.0088	0.0016	
Mercury	82061-12-20 19:12 G	31693579.16	31693579.30	31693579.45	0.0088	0.0008	
Mercury	82062-03-18 20:53 G	31693667.22	31693667.37	31693667.51	0.0088	0.0001	
Mercury	82062-06-14 22:34 G	31693755.29	31693755.44	31693755.58	0.0088	0.0007	
Mercury	82062-09-11 00:00 G	31693843.36	31693843.50	31693843.65	0.0088	0.0015	
Mercury	82062-12-08 01:41 G	31693931.43	31693931.57	31693931.72	0.0088	0.0022	
Mercury	82063-03-06 03:22 G	31694019.51	31694019.64	31694019.78	0.0088	0.0030	
Mercury	82063-06-02 05:03 G	31694107.58	31694107.71	31694107.84	0.0088	0.0038	
Mercury	82063-08-29 06:29 G	31694195.66	31694195.77	31694195.91	0.0088	0.0046	
Mercury	82063-11-25 08:24 G	31694283.74	31694283.85	31694283.97	0.0088	0.0053	
Mercury	82064-02-21 10:05 G	31694371.82	31694371.92	31694372.03	0.0088	0.0061	
Mercury	82064-05-19 11:32 G	31694459.90	31694459.98	31694460.08	0.0088	0.0069	
Mercury	82064-08-15 13:12 G	31694547.99	31694548.05	31694548.13	0.0088	0.0077	
Mercury	82064-11-11 14:53 G	31694636.10	31694636.12	31694636.17	0.0088	0.0085	
Mars	82078-07-16 06:29 G	31699630.48	31699630.77	31699631.07	0.0088	0.0022	
Venus	82108-01-10 20:24 G	31710400.28	31710400.35	31710400.45	0.0089	0.0081	
Venus	82108-08-23 09:08 G	31710625.77	31710625.88	31710626.02	0.0089	0.0072	

Venus	82109-04-05 21:51 G	31710851.28	31710851.41	31710851.58	0.0089	0.0063
Venus	82109-11-17 10:34 G	31711076.79	31711076.94	31711077.13	0.0089	0.0055
Venus	82110-06-30 23:32 G	31711302.30	31711302.48	31711302.68	0.0089	0.0045
Venus	82111-02-11 12:15 G	31711527.82	31711528.01	31711528.22	0.0089	0.0036
Venus	82111-09-25 00:58 G	31711753.35	31711753.54	31711753.76	0.0089	0.0027
Venus	82112-05-07 13:56 G	31711978.87	31711979.08	31711979.30	0.0089	0.0018
Venus	82112-12-19 02:39 G	31712204.40	31712204.61	31712204.83	0.0089	0.0009
Venus	82113-08-01 15:36 G	31712429.94	31712430.15	31712430.37	0.0089	0.0002
Venus	82114-03-15 04:20 G	31712655.47	31712655.68	31712655.90	0.0089	0.0010
Venus	82114-10-26 17:03 G	31712881.00	31712881.21	31712881.43	0.0089	0.0019
Venus	82115-06-09 05:46 G	31713106.54	31713106.74	31713106.95	0.0089	0.0029
Venus	82116-01-20 18:44 G	31713332.08	31713332.28	31713332.48	0.0089	0.0038
Venus	82116-09-02 07:12 G	31713557.64	31713557.80	31713558.01	0.0089	0.0048
Venus	82117-04-15 20:10 G	31713783.19	31713783.34	31713783.52	0.0089	0.0056
Jupiter	82117-05-17 19:56 G	31713814.95	31713815.33	31713815.82	0.0089	0.0056
Venus	82117-11-27 08:53 G	31714008.74	31714008.87	31714009.04	0.0089	0.0065
Venus	82118-07-10 21:36 G	31714234.30	31714234.40	31714234.54	0.0089	0.0075
Venus	82119-02-21 10:34 G	31714459.88	31714459.94	31714460.04	0.0089	0.0083
Earth	82125-11-21 07:41 G	31716924.82	31716924.82	31716924.86	0.0090	0.0089
Earth	82126-11-23 19:27 G	31717292.15	31717292.31	31717292.49	0.0090	0.0067
Moon	82126-11-23 21:08 G	31717292.20	31717292.38	31717292.58	0.0090	0.0062 *
Moon	82127-11-26 06:15 G	31717659.57	31717659.76	31717659.99	0.0090	0.0049
Earth	82127-11-26 07:12 G	31717659.58	31717659.80	31717660.03	0.0090	0.0044 *
Moon	82128-11-27 18:15 G	31718027.01	31718027.26	31718027.53	0.0090	0.0017
Earth	82128-11-27 18:44 G	31718027.04	31718027.28	31718027.53	0.0090	0.0022 *
Earth	82129-11-30 06:29 G	31718394.51	31718394.77	31718395.02	0.0090	0.0002
Moon	82129-11-30 08:24 G	31718394.61	31718394.85	31718395.10	0.0090	0.0003 *
Moon	82130-12-02 15:08 G	31718761.90	31718762.13	31718762.39	0.0090	0.0029
Earth	82130-12-02 17:46 G	31718762.01	31718762.24	31718762.50	0.0090	0.0025 *
Earth	82131-12-05 05:32 G	31719129.52	31719129.73	31719129.95	0.0090	0.0047

Moon	82131-12-05 08:53 G	31719129.65	31719129.87	31719130.10	0.0090	0.0042 *
Moon	82132-12-06 12:58 G	31719496.93	31719497.04	31719497.20	0.0090	0.0075
Earth	82132-12-06 16:34 G	31719497.05	31719497.19	31719497.37	0.0090	0.0070 *
Moon	82133-12-09 06:58 G	31719864.77	31719864.79	31719864.88	0.0090	0.0088
Mercury	82142-04-27 11:17 G	31722925.92	31722925.97	31722926.04	0.0090	0.0084
Mercury	82142-07-24 14:24 G	31723014.01	31723014.10	31723014.21	0.0090	0.0074
Mercury	82142-10-20 17:17 G	31723102.11	31723102.22	31723102.35	0.0090	0.0064
Mercury	82143-01-16 20:10 G	31723190.21	31723190.34	31723190.49	0.0090	0.0054
Mercury	82143-04-14 23:03 G	31723278.32	31723278.46	31723278.62	0.0090	0.0044
Mercury	82143-07-12 02:10 G	31723366.43	31723366.59	31723366.75	0.0090	0.0034
Mercury	82143-10-08 05:03 G	31723454.54	31723454.71	31723454.88	0.0090	0.0024
Mercury	82144-01-04 07:56 G	31723542.66	31723542.83	31723543.00	0.0090	0.0014
Mercury	82144-04-01 10:48 G	31723630.77	31723630.95	31723631.12	0.0090	0.0004
Mercury	82144-06-28 13:41 G	31723718.89	31723719.07	31723719.24	0.0090	0.0006
Mercury	82144-09-24 16:20 G	31723807.01	31723807.18	31723807.35	0.0090	0.0016
Mercury	82144-12-21 18:58 G	31723895.13	31723895.29	31723895.47	0.0090	0.0026
Mercury	82145-03-19 21:51 G	31723983.26	31723983.41	31723983.58	0.0090	0.0035
Mercury	82145-06-16 00:29 G	31724071.38	31724071.52	31724071.68	0.0090	0.0045
Mercury	82145-09-12 03:36 G	31724159.51	31724159.65	31724159.78	0.0090	0.0054
Mercury	82145-12-09 06:00 G	31724247.64	31724247.75	31724247.88	0.0090	0.0064
Mercury	82146-03-07 08:53 G	31724335.78	31724335.87	31724335.97	0.0090	0.0073
Mercury	82146-06-03 11:17 G	31724423.92	31724423.97	31724424.05	0.0090	0.0083
Mars	82160-04-01 21:22 G	31729475.15	31729475.39	31729475.68	0.0089	0.0051
Venus	82188-12-01 21:51 G	31739946.38	31739946.41	31739946.50	0.0088	0.0086
Venus	82189-07-15 11:03 G	31740171.88	31740171.96	31740172.10	0.0088	0.0077
Venus	82190-02-26 00:29 G	31740397.40	31740397.52	31740397.69	0.0088	0.0068
Venus	82190-10-09 13:56 G	31740622.93	31740623.08	31740623.26	0.0088	0.0058
Venus	82191-05-23 03:08 G	31740848.46	31740848.63	31740848.83	0.0088	0.0049
Venus	82192-01-03 16:48 G	31741074.01	31741074.20	31741074.40	0.0088	0.0040
Venus	82192-08-16 06:15 G	31741299.55	31741299.76	31741299.97	0.0088	0.0031

Venus	82193-03-29 19:27 G	31741525.10	31741525.31	31741525.53	0.0088	0.0022
Venus	82193-11-10 08:39 G	31741750.65	31741750.86	31741751.09	0.0088	0.0013
Venus	82194-06-23 22:05 G	31741976.20	31741976.42	31741976.64	0.0088	0.0003
Venus	82195-02-04 11:32 G	31742201.76	31742201.98	31742202.20	0.0088	0.0006
Venus	82195-09-18 00:44 G	31742427.31	31742427.53	31742427.75	0.0088	0.0015
Venus	82196-04-30 13:56 G	31742652.87	31742653.08	31742653.30	0.0088	0.0024
Venus	82196-12-12 03:08 G	31742878.43	31742878.63	31742878.84	0.0088	0.0033
Venus	82197-07-25 16:20 G	31743103.99	31743104.18	31743104.38	0.0088	0.0042
Venus	82198-03-08 05:46 G	31743329.57	31743329.74	31743329.93	0.0088	0.0051
Venus	82198-10-19 18:44 G	31743555.13	31743555.28	31743555.46	0.0088	0.0061
Venus	82199-06-02 07:56 G	31743780.71	31743780.83	31743780.98	0.0088	0.0069
Venus	82200-01-13 21:08 G	31744006.30	31744006.38	31744006.50	0.0088	0.0078
Venus	82200-08-27 10:20 G	31744231.92	31744231.93	31744231.98	0.0088	0.0087
Earth	82208-05-22 20:39 G	31747057.21	31747057.36	31747057.54	0.0088	0.0068
Moon	82208-05-22 20:24 G	31747057.21	31747057.35	31747057.55	0.0088	0.0069 *
Earth	82209-05-25 08:39 G	31747424.64	31747424.86	31747425.08	0.0088	0.0046
Moon	82209-05-25 09:08 G	31747424.67	31747424.88	31747425.11	0.0088	0.0045 *
Moon	82210-05-27 18:00 G	31747792.00	31747792.25	31747792.51	0.0088	0.0025
Earth	82210-05-27 20:10 G	31747792.10	31747792.34	31747792.60	0.0088	0.0025 *
Earth	82211-05-30 08:10 G	31748159.58	31748159.84	31748160.10	0.0088	0.0003
Moon	82211-05-30 11:03 G	31748159.71	31748159.96	31748160.22	0.0088	0.0002 *
Moon	82212-05-31 16:20 G	31748526.93	31748527.18	31748527.45	0.0088	0.0018
Earth	82212-05-31 19:56 G	31748527.08	31748527.33	31748527.59	0.0088	0.0019 *
Earth	82213-06-03 07:27 G	31748894.59	31748894.81	31748895.05	0.0088	0.0041
Moon	82213-06-03 11:32 G	31748894.75	31748894.98	31748895.21	0.0088	0.0042 *
Moon	82214-06-05 16:05 G	31749262.00	31749262.17	31749262.36	0.0088	0.0061
Earth	82214-06-05 18:44 G	31749262.13	31749262.28	31749262.49	0.0088	0.0063 *
Earth	82215-06-08 06:58 G	31749629.73	31749629.79	31749629.87	0.0088	0.0084
Moon	82215-06-08 09:22 G	31749629.88	31749629.89	31749629.97	0.0088	0.0087
Mercury	82224-01-24 01:27 G	31752781.54	31752781.56	31752781.60	0.0088	0.0085

Mercury	82224-04-21 02:53 G	31752869.57	31752869.62	31752869.70	0.0088	0.0078
Mercury	82224-07-18 04:20 G	31752957.61	31752957.68	31752957.78	0.0088	0.0071
Mercury	82224-10-14 06:15 G	31753045.66	31753045.76	31753045.86	0.0088	0.0063
Mercury	82225-01-10 07:41 G	31753133.72	31753133.82	31753133.94	0.0088	0.0056
Mercury	82225-04-08 09:08 G	31753221.77	31753221.88	31753222.01	0.0088	0.0049
Mercury	82225-07-05 10:48 G	31753309.83	31753309.95	31753310.08	0.0088	0.0041
Mercury	82225-10-01 12:29 G	31753397.89	31753398.02	31753398.16	0.0088	0.0033
Mercury	82225-12-28 14:10 G	31753485.95	31753486.09	31753486.23	0.0088	0.0026
Mercury	82226-03-26 15:36 G	31753574.02	31753574.15	31753574.30	0.0088	0.0019
Mercury	82226-06-22 17:17 G	31753662.08	31753662.22	31753662.37	0.0088	0.0011
Mercury	82226-09-18 18:58 G	31753750.15	31753750.29	31753750.44	0.0088	0.0003
Mercury	82226-12-15 20:39 G	31753838.22	31753838.36	31753838.50	0.0088	0.0004
Mercury	82227-03-13 22:20 G	31753926.28	31753926.43	31753926.57	0.0088	0.0012
Mercury	82227-06-09 23:46 G	31754014.35	31754014.49	31754014.64	0.0088	0.0020
Mercury	82227-09-06 01:27 G	31754102.43	31754102.56	31754102.70	0.0088	0.0027
Mercury	82227-12-03 03:08 G	31754190.50	31754190.63	31754190.76	0.0088	0.0035
Mercury	82228-02-29 04:34 G	31754278.57	31754278.69	31754278.83	0.0088	0.0043
Mercury	82228-05-27 06:15 G	31754366.65	31754366.76	31754366.89	0.0088	0.0051
Mercury	82228-08-23 08:10 G	31754454.73	31754454.84	31754454.95	0.0088	0.0058
Mercury	82228-11-19 09:36 G	31754542.81	31754542.90	31754543.00	0.0088	0.0066
Mercury	82229-02-15 11:17 G	31754630.90	31754630.97	31754631.06	0.0088	0.0074
Mercury	82229-05-14 12:58 G	31754719.00	31754719.04	31754719.10	0.0088	0.0082
Mars	82242-03-02 10:05 G	31759393.65	31759393.92	31759394.23	0.0088	0.0028
Venus	82272-04-14 08:24 G	31770394.79	31770394.85	31770394.93	0.0089	0.0083
Venus	82272-11-25 21:08 G	31770620.28	31770620.38	31770620.51	0.0089	0.0074
Venus	82273-07-09 10:05 G	31770845.78	31770845.92	31770846.08	0.0089	0.0065
Venus	82274-02-19 22:48 G	31771071.30	31771071.45	31771071.63	0.0089	0.0056
Venus	82274-10-03 11:32 G	31771296.81	31771296.98	31771297.18	0.0089	0.0047
Venus	82275-05-17 00:15 G	31771522.33	31771522.51	31771522.72	0.0089	0.0038
Venus	82275-12-28 12:58 G	31771747.85	31771748.04	31771748.26	0.0089	0.0029

Venus	82276-08-10 02:10 G	31771973.38	31771973.59	31771973.81	0.0089	0.0020
Venus	82277-03-23 14:53 G	31772198.91	31772199.12	31772199.34	0.0089	0.0010
Venus	82277-11-04 03:36 G	31772424.44	31772424.65	31772424.87	0.0089	0.0002
Venus	82278-06-17 16:20 G	31772649.97	31772650.18	31772650.40	0.0089	0.0008
Venus	82279-01-29 05:03 G	31772875.50	31772875.71	31772875.93	0.0089	0.0018
Venus	82279-09-11 18:00 G	31773101.04	31773101.25	31773101.46	0.0089	0.0027
Venus	82280-04-24 06:29 G	31773326.58	31773326.77	31773326.98	0.0089	0.0036
Venus	82280-12-05 19:12 G	31773552.13	31773552.30	31773552.50	0.0089	0.0045
Venus	82281-07-19 08:10 G	31773777.68	31773777.84	31773778.02	0.0089	0.0054
Venus	82282-03-01 20:53 G	31774003.23	31774003.37	31774003.54	0.0089	0.0064
Venus	82282-10-13 09:51 G	31774228.79	31774228.91	31774229.04	0.0089	0.0073
Venus	82283-05-26 22:34 G	31774454.37	31774454.44	31774454.54	0.0089	0.0082
Jupiter	82283-07-17 09:36 G	31774505.50	31774505.90	31774506.34	0.0089	0.0059
Earth	82290-11-24 06:15 G	31777192.63	31777192.76	31777192.91	0.0090	0.0074
Moon	82290-11-24 06:00 G	31777192.63	31777192.75	31777192.92	0.0090	0.0073 *
Moon	82291-11-26 16:34 G	31777559.98	31777560.19	31777560.41	0.0090	0.0053
Earth	82291-11-26 17:32 G	31777560.04	31777560.23	31777560.46	0.0090	0.0052 *
Earth	82292-11-28 05:17 G	31777927.48	31777927.72	31777927.97	0.0090	0.0029
Moon	82292-11-28 07:12 G	31777927.57	31777927.80	31777928.04	0.0090	0.0028 *
Moon	82293-11-30 13:41 G	31778294.81	31778295.07	31778295.33	0.0090	0.0008
Earth	82293-11-30 16:48 G	31778294.96	31778295.20	31778295.46	0.0090	0.0007 *
Earth	82294-12-03 04:20 G	31778662.44	31778662.68	31778662.94	0.0090	0.0017
Moon	82294-12-03 07:56 G	31778662.58	31778662.83	31778663.08	0.0090	0.0018 *
Moon	82295-12-05 12:15 G	31779029.79	31779030.01	31779030.25	0.0090	0.0039
Earth	82295-12-05 15:36 G	31779029.94	31779030.15	31779030.40	0.0090	0.0040 *
Earth	82296-12-07 03:22 G	31779397.47	31779397.64	31779397.84	0.0090	0.0062
Moon	82296-12-07 06:15 G	31779397.60	31779397.76	31779397.97	0.0090	0.0063 *
Moon	82297-12-09 12:58 G	31779764.97	31779765.04	31779765.14	0.0090	0.0084
Earth	82297-12-09 14:39 G	31779765.06	31779765.11	31779765.22	0.0090	0.0085 *
Mercury	82306-10-28 07:27 G	31783008.79	31783008.81	31783008.87	0.0090	0.0088

Mercury	82307-01-24 10:20 G	31783096.87	31783096.93	31783097.04	0.0090	0.0078
Mercury	82307-04-22 13:27 G	31783184.96	31783185.06	31783185.19	0.0090	0.0068
Mercury	82307-07-19 16:48 G	31783273.06	31783273.20	31783273.33	0.0090	0.0057
Mercury	82307-10-15 19:41 G	31783361.17	31783361.32	31783361.47	0.0090	0.0047
Mercury	82308-01-11 22:34 G	31783449.28	31783449.44	31783449.60	0.0090	0.0037
Mercury	82308-04-09 01:12 G	31783537.39	31783537.55	31783537.73	0.0090	0.0028
Mercury	82308-07-06 04:05 G	31783625.51	31783625.67	31783625.85	0.0090	0.0018
Mercury	82308-10-02 07:12 G	31783713.62	31783713.80	31783713.97	0.0090	0.0007
Mercury	82308-12-29 10:05 G	31783801.74	31783801.92	31783802.09	0.0090	0.0003
Mercury	82309-03-27 12:44 G	31783889.86	31783890.03	31783890.21	0.0090	0.0013
Mercury	82309-06-23 15:36 G	31783977.99	31783978.15	31783978.32	0.0090	0.0022
Mercury	82309-09-19 18:29 G	31784066.11	31784066.27	31784066.43	0.0090	0.0032
Mercury	82309-12-16 21:08 G	31784154.23	31784154.38	31784154.54	0.0090	0.0042
Mercury	82310-03-15 00:00 G	31784242.36	31784242.50	31784242.64	0.0090	0.0051
Mercury	82310-06-11 02:39 G	31784330.49	31784330.61	31784330.74	0.0090	0.0061
Mercury	82310-09-07 05:17 G	31784418.63	31784418.72	31784418.84	0.0090	0.0071
Mercury	82310-12-04 08:10 G	31784506.77	31784506.84	31784506.92	0.0090	0.0080
Mercury	82311-03-02 10:48 G	31784594.95	31784594.95	31784594.97	0.0090	0.0089
Mars	82323-11-17 06:15 G	31789237.45	31789237.76	31789238.09	0.0089	0.0007
Venus	82353-03-07 09:08 G	31799940.87	31799940.88	31799940.94	0.0088	0.0088
Venus	82353-10-18 22:20 G	31800166.36	31800166.43	31800166.56	0.0088	0.0079
Venus	82354-06-01 11:46 G	31800391.87	31800391.99	31800392.14	0.0088	0.0069
Venus	82355-01-13 00:58 G	31800617.40	31800617.54	31800617.72	0.0088	0.0061
Venus	82355-08-26 14:10 G	31800842.93	31800843.09	31800843.29	0.0088	0.0052
Venus	82356-04-08 03:51 G	31801068.47	31801068.66	31801068.86	0.0088	0.0042
Venus	82356-11-19 17:03 G	31801294.01	31801294.21	31801294.42	0.0088	0.0033
Venus	82357-07-03 06:15 G	31801519.55	31801519.76	31801519.98	0.0088	0.0024
Venus	82358-02-13 19:41 G	31801745.10	31801745.32	31801745.54	0.0088	0.0014
Venus	82358-09-27 08:53 G	31801970.65	31801970.87	31801971.10	0.0088	0.0006
Venus	82359-05-10 22:05 G	31802196.20	31802196.42	31802196.65	0.0088	0.0005

Venus	82359-12-22 11:17 G	31802421.76	31802421.97	31802422.20	0.0088	0.0014
Venus	82360-08-04 00:44 G	31802647.32	31802647.53	31802647.75	0.0088	0.0022
Venus	82361-03-17 14:10 G	31802872.88	31802873.09	31802873.30	0.0088	0.0031
Venus	82361-10-29 03:22 G	31803098.45	31803098.64	31803098.84	0.0088	0.0040
Venus	82362-06-11 16:34 G	31803324.01	31803324.19	31803324.38	0.0088	0.0050
Venus	82363-01-23 05:32 G	31803549.58	31803549.73	31803549.91	0.0088	0.0059
Venus	82363-09-05 18:44 G	31803775.16	31803775.28	31803775.44	0.0088	0.0068
Venus	82364-04-18 07:56 G	31804000.74	31804000.83	31804000.96	0.0088	0.0077
Venus	82364-11-29 21:36 G	31804226.35	31804226.40	31804226.45	0.0088	0.0086
Earth	82372-05-23 05:46 G	31806957.64	31806957.74	31806957.91	0.0088	0.0075
Moon	82372-05-23 07:56 G	31806957.74	31806957.83	31806957.95	0.0088	0.0079 *
Moon	82373-05-25 16:05 G	31807324.95	31807325.17	31807325.39	0.0088	0.0048
Earth	82373-05-25 18:15 G	31807325.06	31807325.26	31807325.48	0.0088	0.0053 *
Earth	82374-05-28 06:00 G	31807692.51	31807692.75	31807693.00	0.0088	0.0031
Moon	82374-05-28 09:22 G	31807692.66	31807692.89	31807693.13	0.0088	0.0036 *
Moon	82375-05-30 14:39 G	31808059.85	31808060.11	31808060.37	0.0088	0.0005
Earth	82375-05-30 18:00 G	31808060.00	31808060.25	31808060.52	0.0088	0.0010 *
Earth	82376-06-01 05:46 G	31808427.49	31808427.74	31808428.00	0.0088	0.0013
Moon	82376-06-01 09:22 G	31808427.63	31808427.89	31808428.16	0.0088	0.0008 *
Moon	82377-06-03 14:24 G	31808794.88	31808795.10	31808795.34	0.0088	0.0039
Earth	82377-06-03 17:32 G	31808795.00	31808795.23	31808795.48	0.0088	0.0034 *
Earth	82378-06-06 05:03 G	31809162.53	31809162.71	31809162.93	0.0088	0.0056
Moon	82378-06-06 07:12 G	31809162.59	31809162.80	31809163.02	0.0088	0.0051 *
Moon	82379-06-08 15:22 G	31809530.08	31809530.14	31809530.26	0.0088	0.0082
Earth	82379-06-08 17:03 G	31809530.10	31809530.21	31809530.34	0.0088	0.0077 *
Mercury	82388-07-24 23:46 G	31812864.49	31812864.49	31812864.50	0.0088	0.0087
Mercury	82388-10-21 01:12 G	31812952.50	31812952.55	31812952.61	0.0088	0.0080
Mercury	82389-01-17 02:39 G	31813040.55	31813040.61	31813040.70	0.0088	0.0073
Mercury	82389-04-15 04:05 G	31813128.59	31813128.67	31813128.78	0.0088	0.0066
Mercury	82389-07-12 06:00 G	31813216.65	31813216.75	31813216.86	0.0088	0.0058



Mercury	82389-10-08 07:27 G	31813304.70	31813304.81	31813304.93	0.0088	0.0051
Mercury	82390-01-04 09:08 G	31813392.76	31813392.88	31813393.01	0.0088	0.0043
Mercury	82390-04-02 10:34 G	31813480.82	31813480.94	31813481.08	0.0088	0.0036
Mercury	82390-06-29 12:15 G	31813568.88	31813569.01	31813569.15	0.0088	0.0028
Mercury	82390-09-25 13:56 G	31813656.94	31813657.08	31813657.22	0.0088	0.0021
Mercury	82390-12-22 15:22 G	31813745.01	31813745.14	31813745.29	0.0088	0.0014
Mercury	82391-03-20 17:03 G	31813833.07	31813833.21	31813833.36	0.0088	0.0006
Mercury	82391-06-16 18:44 G	31813921.14	31813921.28	31813921.43	0.0088	0.0002
Mercury	82391-09-12 20:24 G	31814009.21	31814009.35	31814009.49	0.0088	0.0010
Mercury	82391-12-09 22:05 G	31814097.28	31814097.42	31814097.56	0.0088	0.0017
Mercury	82392-03-06 23:32 G	31814185.35	31814185.48	31814185.62	0.0088	0.0025
Mercury	82392-06-03 01:12 G	31814273.42	31814273.55	31814273.69	0.0088	0.0032
Mercury	82392-08-30 02:53 G	31814361.49	31814361.62	31814361.75	0.0088	0.0040
Mercury	82392-11-26 04:20 G	31814449.57	31814449.68	31814449.81	0.0088	0.0048
Mercury	82393-02-22 06:00 G	31814537.65	31814537.75	31814537.87	0.0088	0.0056
Mercury	82393-05-21 07:56 G	31814625.73	31814625.83	31814625.93	0.0088	0.0063
Mercury	82393-08-17 09:22 G	31814713.81	31814713.89	31814713.98	0.0088	0.0071
Mercury	82393-11-13 11:03 G	31814801.91	31814801.96	31814802.03	0.0088	0.0079
Mercury	82394-02-09 12:29 G	31814890.02	31814890.02	31814890.06	0.0088	0.0087
Mars	82405-10-16 10:05 G	31819156.82	31819156.92	31819157.09	0.0088	0.0079
Mars	82407-09-10 20:53 G	31819851.14	31819851.37	31819851.63	0.0088	0.0054
Venus	82436-07-17 19:41 G	31830389.29	31830389.32	31830389.40	0.0089	0.0086
Venus	82437-02-28 08:24 G	31830614.77	31830614.85	31830614.99	0.0089	0.0077
Venus	82437-10-11 21:51 G	31830840.27	31830840.41	31830840.55	0.0089	0.0067
Venus	82438-05-25 10:34 G	31831065.78	31831065.94	31831066.11	0.0089	0.0058
Venus	82439-01-05 23:17 G	31831291.29	31831291.47	31831291.66	0.0089	0.0049
Venus	82439-08-19 12:00 G	31831516.82	31831517.00	31831517.21	0.0089	0.0040
Venus	82440-04-01 00:58 G	31831742.34	31831742.54	31831742.75	0.0089	0.0031
Venus	82440-11-12 13:41 G	31831967.87	31831968.07	31831968.29	0.0089	0.0022
Venus	82441-06-26 02:39 G	31832193.39	31832193.61	31832193.83	0.0089	0.0012

Venus	82442-02-06 15:22 G	31832418.92	31832419.14	31832419.36	0.0089	0.0003
Venus	82442-09-20 04:05 G	31832644.46	31832644.67	31832644.89	0.0089	0.0006
Venus	82443-05-03 16:48 G	31832869.99	31832870.20	31832870.42	0.0089	0.0016
Venus	82443-12-15 05:46 G	31833095.53	31833095.74	31833095.95	0.0089	0.0025
Venus	82444-07-27 18:15 G	31833321.07	31833321.26	31833321.47	0.0089	0.0034
Venus	82445-03-10 06:58 G	31833546.62	31833546.79	31833547.00	0.0089	0.0044
Venus	82445-10-21 19:56 G	31833772.16	31833772.33	31833772.51	0.0089	0.0052
Venus	82446-06-04 08:39 G	31833997.71	31833997.86	31833998.02	0.0089	0.0062
Venus	82447-01-15 21:36 G	31834223.27	31834223.40	31834223.53	0.0089	0.0071
Venus	82447-08-29 09:51 G	31834448.85	31834448.91	31834449.04	0.0089	0.0081
Venus	82448-04-10 23:03 G	31834674.46	31834674.46	31834674.49	0.0089	0.0089
Moon	82454-11-24 15:08 G	31837093.07	31837093.13	31837093.23	0.0090	0.0085
Earth	82454-11-24 16:48 G	31837093.12	31837093.20	31837093.34	0.0090	0.0081 *
Earth	82455-11-27 04:20 G	31837460.51	31837460.68	31837460.89	0.0090	0.0059
Moon	82455-11-27 07:12 G	31837460.62	31837460.80	31837461.01	0.0090	0.0055 *
Moon	82456-11-28 12:58 G	31837827.82	31837828.04	31837828.29	0.0090	0.0041
Earth	82456-11-28 16:20 G	31837827.95	31837828.18	31837828.42	0.0090	0.0036 *
Earth	82457-12-01 03:51 G	31838195.41	31838195.66	31838195.92	0.0090	0.0014
Moon	82457-12-01 07:41 G	31838195.57	31838195.82	31838196.07	0.0090	0.0009 *
Moon	82458-12-03 12:15 G	31838562.76	31838563.01	31838563.26	0.0090	0.0005
Earth	82458-12-03 15:22 G	31838562.89	31838563.14	31838563.40	0.0090	0.0009 *
Earth	82459-12-06 02:39 G	31838930.38	31838930.61	31838930.86	0.0090	0.0032
Moon	82459-12-06 05:32 G	31838930.51	31838930.73	31838930.98	0.0090	0.0037 *
Moon	82460-12-07 12:15 G	31839297.82	31839298.01	31839298.23	0.0090	0.0050
Earth	82460-12-07 13:56 G	31839297.90	31839298.08	31839298.30	0.0090	0.0055 *
Earth	82461-12-10 01:27 G	31839665.45	31839665.56	31839665.71	0.0090	0.0077
Moon	82461-12-10 01:56 G	31839665.49	31839665.58	31839665.71	0.0090	0.0081 *
Mercury	82471-07-25 06:58 G	31843179.72	31843179.79	31843179.87	0.0090	0.0081
Mercury	82471-10-21 09:51 G	31843267.81	31843267.91	31843268.02	0.0090	0.0071
Mercury	82472-01-17 12:44 G	31843355.91	31843356.03	31843356.17	0.0090	0.0061

Mercury	82472-04-14 15:36 G	31843444.02	31843444.15	31843444.30	0.0090	0.0051
Mercury	82472-07-11 18:44 G	31843532.13	31843532.28	31843532.44	0.0090	0.0041
Mercury	82472-10-07 21:36 G	31843620.24	31843620.40	31843620.57	0.0090	0.0031
Mercury	82473-01-04 00:29 G	31843708.35	31843708.52	31843708.69	0.0090	0.0021
Mercury	82473-04-02 03:22 G	31843796.47	31843796.64	31843796.82	0.0090	0.0011
Mercury	82473-06-29 06:15 G	31843884.59	31843884.76	31843884.94	0.0090	0.0002
Mercury	82473-09-25 09:08 G	31843972.71	31843972.88	31843973.05	0.0090	0.0009
Mercury	82473-12-22 11:46 G	31844060.83	31844060.99	31844061.17	0.0090	0.0019
Mercury	82474-03-20 14:39 G	31844148.95	31844149.11	31844149.28	0.0090	0.0028
Mercury	82474-06-16 17:32 G	31844237.08	31844237.23	31844237.39	0.0090	0.0038
Mercury	82474-09-12 20:10 G	31844325.20	31844325.34	31844325.50	0.0090	0.0048
Mercury	82474-12-09 22:48 G	31844413.34	31844413.45	31844413.60	0.0090	0.0058
Mercury	82475-03-08 01:41 G	31844501.47	31844501.57	31844501.70	0.0090	0.0067
Mercury	82475-06-04 04:20 G	31844589.61	31844589.68	31844589.79	0.0090	0.0077
Mercury	82475-08-31 07:12 G	31844677.77	31844677.80	31844677.86	0.0090	0.0086
Mars	82487-07-01 16:34 G	31848999.98	31849000.19	31849000.44	0.0089	0.0062
Mars	82489-05-26 21:22 G	31849695.31	31849695.39	31849695.54	0.0089	0.0084
Venus	82518-01-21 09:36 G	31860160.82	31860160.90	31860161.00	0.0088	0.0081
Venus	82518-09-03 22:48 G	31860386.34	31860386.45	31860386.59	0.0088	0.0072
Venus	82519-04-17 12:00 G	31860611.86	31860612.00	31860612.17	0.0088	0.0063
Venus	82519-11-29 01:12 G	31860837.39	31860837.55	31860837.74	0.0088	0.0053
Venus	82520-07-11 14:24 G	31861062.92	31861063.10	31861063.31	0.0088	0.0044
Venus	82521-02-22 03:51 G	31861288.47	31861288.66	31861288.88	0.0088	0.0035
Venus	82521-10-05 17:17 G	31861514.01	31861514.22	31861514.43	0.0088	0.0026
Venus	82522-05-19 06:29 G	31861739.55	31861739.77	31861739.99	0.0088	0.0017
Venus	82522-12-30 19:41 G	31861965.10	31861965.32	31861965.55	0.0088	0.0007
Venus	82523-08-13 09:08 G	31862190.65	31862190.88	31862191.10	0.0088	0.0002
Venus	82524-03-25 22:20 G	31862416.21	31862416.43	31862416.65	0.0088	0.0011
Venus	82524-11-06 11:32 G	31862641.77	31862641.98	31862642.20	0.0088	0.0020
Venus	82525-06-20 00:44 G	31862867.33	31862867.53	31862867.75	0.0088	0.0030

Venus	82526-01-31 13:56 G	31863092.89	31863093.08	31863093.29	0.0088	0.0039
Venus	82526-09-14 03:08 G	31863318.46	31863318.63	31863318.84	0.0088	0.0048
Venus	82527-04-27 16:20 G	31863544.03	31863544.18	31863544.37	0.0088	0.0057
Venus	82527-12-09 05:32 G	31863769.61	31863769.73	31863769.90	0.0088	0.0066
Venus	82528-07-21 18:44 G	31863995.19	31863995.28	31863995.42	0.0088	0.0076
Venus	82529-03-04 08:10 G	31864220.80	31864220.84	31864220.93	0.0088	0.0084
Moon	82536-05-23 12:15 G	31866857.95	31866858.01	31866858.13	0.0088	0.0083
Earth	82536-05-23 16:05 G	31866858.08	31866858.17	31866858.27	0.0088	0.0081 *
Earth	82537-05-26 03:22 G	31867225.47	31867225.64	31867225.85	0.0088	0.0060
Moon	82537-05-26 06:29 G	31867225.61	31867225.77	31867225.98	0.0088	0.0060 *
Moon	82538-05-28 11:46 G	31867592.76	31867592.99	31867593.23	0.0088	0.0038
Earth	82538-05-28 15:36 G	31867592.92	31867593.15	31867593.39	0.0088	0.0038 *
Earth	82539-05-31 03:22 G	31867960.39	31867960.64	31867960.90	0.0088	0.0017
Moon	82539-05-31 06:44 G	31867960.52	31867960.78	31867961.04	0.0088	0.0016 *
Moon	82540-06-01 12:44 G	31868327.77	31868328.03	31868328.28	0.0088	0.0006
Earth	82540-06-01 15:22 G	31868327.88	31868328.14	31868328.40	0.0088	0.0005 *
Earth	82541-06-04 02:53 G	31868695.38	31868695.62	31868695.88	0.0088	0.0027
Moon	82541-06-04 05:03 G	31868695.45	31868695.71	31868695.97	0.0088	0.0026 *
Earth	82542-06-06 14:24 G	31869062.91	31869063.10	31869063.34	0.0088	0.0049
Moon	82542-06-06 14:24 G	31869062.91	31869063.10	31869063.33	0.0088	0.0049 *
Moon	82543-06-09 01:27 G	31869430.42	31869430.56	31869430.75	0.0088	0.0070
Earth	82543-06-09 02:39 G	31869430.46	31869430.61	31869430.77	0.0088	0.0070 *
Mercury	82553-04-21 23:17 G	31873035.44	31873035.47	31873035.53	0.0088	0.0083
Mercury	82553-07-19 00:44 G	31873123.48	31873123.53	31873123.62	0.0088	0.0076
Mercury	82553-10-15 02:24 G	31873211.52	31873211.60	31873211.70	0.0088	0.0068
Mercury	82554-01-11 03:51 G	31873299.57	31873299.66	31873299.78	0.0088	0.0061
Mercury	82554-04-09 05:46 G	31873387.63	31873387.74	31873387.85	0.0088	0.0053
Mercury	82554-07-06 07:12 G	31873475.68	31873475.80	31873475.93	0.0088	0.0046
Mercury	82554-10-02 08:39 G	31873563.74	31873563.86	31873564.00	0.0088	0.0039
Mercury	82554-12-29 10:20 G	31873651.80	31873651.93	31873652.07	0.0088	0.0031

Mercury	82555-03-27 12:00 G	31873739.86	31873740.00	31873740.14	0.0088	0.0023
Mercury	82555-06-23 13:41 G	31873827.93	31873828.07	31873828.21	0.0088	0.0016
Mercury	82555-09-19 15:08 G	31873915.99	31873916.13	31873916.28	0.0088	0.0009
Mercury	82555-12-16 16:48 G	31874004.06	31874004.20	31874004.35	0.0088	0.0001
Mercury	82556-03-13 18:29 G	31874092.13	31874092.27	31874092.41	0.0088	0.0007
Mercury	82556-06-09 19:56 G	31874180.19	31874180.33	31874180.48	0.0088	0.0015
Mercury	82556-09-05 21:36 G	31874268.26	31874268.40	31874268.54	0.0088	0.0022
Mercury	82556-12-02 23:17 G	31874356.34	31874356.47	31874356.61	0.0088	0.0030
Mercury	82557-03-01 00:44 G	31874444.41	31874444.53	31874444.67	0.0088	0.0038
Mercury	82557-05-28 02:39 G	31874532.48	31874532.61	31874532.73	0.0088	0.0045
Mercury	82557-08-24 04:05 G	31874620.56	31874620.67	31874620.79	0.0088	0.0053
Mercury	82557-11-20 05:32 G	31874708.64	31874708.73	31874708.85	0.0088	0.0061
Mercury	82558-02-16 07:12 G	31874796.72	31874796.80	31874796.90	0.0088	0.0069
Mercury	82558-05-15 09:08 G	31874884.81	31874884.88	31874884.95	0.0088	0.0076
Mercury	82558-08-11 10:34 G	31874972.91	31874972.94	31874972.99	0.0088	0.0084
Mars	82571-04-26 22:05 G	31879614.11	31879614.42	31879614.73	0.0088	0.0004
Venus	82600-10-21 07:27 G	31890383.80	31890383.81	31890383.85	0.0089	0.0088
Venus	82601-06-03 20:10 G	31890609.26	31890609.34	31890609.45	0.0089	0.0079
Venus	82602-01-15 08:53 G	31890834.75	31890834.87	31890835.02	0.0089	0.0070
Venus	82602-08-28 21:51 G	31891060.27	31891060.41	31891060.58	0.0089	0.0061
Venus	82603-04-11 10:34 G	31891285.78	31891285.94	31891286.14	0.0089	0.0052
Venus	82603-11-22 23:46 G	31891511.30	31891511.49	31891511.69	0.0089	0.0042
Venus	82604-07-05 12:29 G	31891736.83	31891737.02	31891737.23	0.0089	0.0033
Venus	82605-02-16 01:12 G	31891962.35	31891962.55	31891962.77	0.0089	0.0024
Venus	82605-09-29 14:10 G	31892187.88	31892188.09	31892188.31	0.0089	0.0015
Venus	82606-05-13 03:08 G	31892413.41	31892413.63	31892413.84	0.0089	0.0005
Venus	82606-12-24 15:51 G	31892638.94	31892639.16	31892639.38	0.0089	0.0004
Venus	82607-08-07 04:34 G	31892864.48	31892864.69	31892864.91	0.0089	0.0014
Venus	82608-03-19 17:32 G	31893090.02	31893090.23	31893090.44	0.0089	0.0023
Venus	82608-10-31 05:46 G	31893315.55	31893315.74	31893315.96	0.0089	0.0033

Venus	82609-06-13 18:29 G	31893541.09	31893541.27	31893541.48	0.0089	0.0042
Venus	82610-01-25 07:27 G	31893766.64	31893766.81	31893767.00	0.0089	0.0050
Venus	82610-09-07 20:24 G	31893992.19	31893992.35	31893992.52	0.0089	0.0060
Venus	82611-04-21 08:39 G	31894217.75	31894217.86	31894218.02	0.0089	0.0070
Venus	82611-12-02 21:22 G	31894443.31	31894443.39	31894443.52	0.0089	0.0079
Venus	82612-07-15 10:20 G	31894668.91	31894668.93	31894668.99	0.0089	0.0087
Earth	82618-11-26 02:39 G	31896993.59	31896993.61	31896993.68	0.0089	0.0088
Moon	82619-11-28 10:48 G	31897360.79	31897360.95	31897361.16	0.0090	0.0063
Earth	82619-11-28 14:24 G	31897360.95	31897361.10	31897361.30	0.0090	0.0066 *
Earth	82620-11-30 02:24 G	31897728.38	31897728.60	31897728.83	0.0090	0.0043
Moon	82620-11-30 05:46 G	31897728.53	31897728.74	31897728.97	0.0090	0.0045 *
Moon	82621-12-02 10:34 G	31898095.70	31898095.94	31898096.20	0.0090	0.0019
Earth	82621-12-02 13:56 G	31898095.84	31898096.08	31898096.34	0.0090	0.0021 *
Earth	82622-12-05 01:41 G	31898463.31	31898463.57	31898463.82	0.0090	0.0002
Moon	82622-12-05 03:51 G	31898463.40	31898463.66	31898463.92	0.0090	0.0001 *
Moon	82623-12-07 11:32 G	31898830.75	31898830.98	31898831.22	0.0090	0.0026
Earth	82623-12-07 12:44 G	31898830.80	31898831.03	31898831.29	0.0090	0.0025 *
Earth	82624-12-09 00:15 G	31899198.31	31899198.51	31899198.74	0.0090	0.0047
Moon	82624-12-09 00:29 G	31899198.31	31899198.52	31899198.77	0.0090	0.0045 *
Earth	82625-12-11 11:46 G	31899565.85	31899565.99	31899566.17	0.0090	0.0069
Moon	82625-12-11 12:58 G	31899565.92	31899566.04	31899566.21	0.0090	0.0072 *
Moon	82626-12-13 21:08 G	31899933.38	31899933.38	31899933.42	0.0090	0.0089
Mercury	82636-01-25 02:53 G	31903262.58	31903262.62	31903262.69	0.0090	0.0085
Mercury	82636-04-22 05:46 G	31903350.66	31903350.74	31903350.85	0.0090	0.0075
Mercury	82636-07-19 08:53 G	31903438.76	31903438.87	31903439.00	0.0090	0.0065
Mercury	82636-10-15 11:46 G	31903526.86	31903526.99	31903527.14	0.0090	0.0055
Mercury	82637-01-11 14:39 G	31903614.97	31903615.11	31903615.28	0.0090	0.0045
Mercury	82637-04-09 17:46 G	31903703.08	31903703.24	31903703.41	0.0090	0.0035
Mercury	82637-07-06 20:39 G	31903791.20	31903791.36	31903791.54	0.0090	0.0025
Mercury	82637-10-02 23:46 G	31903879.32	31903879.49	31903879.66	0.0090	0.0015

Mercury	82637-12-30 02:39 G	31903967.43	31903967.61	31903967.78	0.0090	0.0005
Mercury	82638-03-28 05:32 G	31904055.55	31904055.73	31904055.90	0.0090	0.0005
Mercury	82638-06-24 08:10 G	31904143.67	31904143.84	31904144.02	0.0090	0.0015
Mercury	82638-09-20 11:03 G	31904231.80	31904231.96	31904232.13	0.0090	0.0025
Mercury	82638-12-17 13:41 G	31904319.92	31904320.07	31904320.24	0.0090	0.0035
Mercury	82639-03-15 16:48 G	31904408.05	31904408.20	31904408.35	0.0090	0.0044
Mercury	82639-06-11 19:27 G	31904496.18	31904496.31	31904496.45	0.0090	0.0054
Mercury	82639-09-07 22:05 G	31904584.31	31904584.42	31904584.55	0.0090	0.0064
Mercury	82639-12-05 00:58 G	31904672.45	31904672.54	31904672.65	0.0090	0.0073
Mercury	82640-03-02 03:36 G	31904760.60	31904760.65	31904760.73	0.0090	0.0083
Mars	82653-01-10 06:58 G	31909457.49	31909457.79	31909458.10	0.0089	0.0027
Venus	82682-04-25 20:24 G	31920155.28	31920155.35	31920155.43	0.0088	0.0083
Venus	82682-12-07 09:36 G	31920380.79	31920380.90	31920381.03	0.0088	0.0074
Venus	82683-07-20 22:48 G	31920606.31	31920606.45	31920606.61	0.0088	0.0065
Venus	82684-03-02 12:00 G	31920831.84	31920832.00	31920832.19	0.0088	0.0056
Venus	82684-10-14 01:12 G	31921057.37	31921057.55	31921057.75	0.0088	0.0047
Venus	82685-05-27 14:24 G	31921282.91	31921283.10	31921283.31	0.0088	0.0037
Venus	82686-01-08 03:36 G	31921508.45	31921508.65	31921508.87	0.0088	0.0028
Venus	82686-08-21 16:48 G	31921734.00	31921734.20	31921734.43	0.0088	0.0019
Venus	82687-04-04 06:15 G	31921959.54	31921959.76	31921959.99	0.0088	0.0010
Venus	82687-11-15 19:27 G	31922185.09	31922185.31	31922185.54	0.0088	0.0001
Venus	82688-06-28 08:39 G	31922410.64	31922410.86	31922411.09	0.0088	0.0009
Venus	82689-02-08 21:51 G	31922636.20	31922636.41	31922636.64	0.0088	0.0019
Venus	82689-09-22 11:17 G	31922861.76	31922861.97	31922862.18	0.0088	0.0027
Venus	82690-05-06 00:29 G	31923087.32	31923087.52	31923087.72	0.0088	0.0037
Venus	82690-12-17 13:27 G	31923312.88	31923313.06	31923313.26	0.0088	0.0046
Venus	82691-07-31 02:39 G	31923538.45	31923538.61	31923538.80	0.0088	0.0055
Venus	82692-03-12 16:05 G	31923764.03	31923764.17	31923764.34	0.0088	0.0064
Jupiter	82692-04-30 02:24 G	31923812.31	31923812.60	31923813.01	0.0088	0.0067
Venus	82692-10-24 05:17 G	31923989.62	31923989.72	31923989.86	0.0088	0.0073

Venus	82693-06-06 18:29 G	31924215.21	31924215.27	31924215.37	0.0088	0.0082
Earth	82700-05-25 01:27 G	31926758.56	31926758.56	31926758.57	0.0088	0.0088
Moon	82700-05-25 04:48 G	31926758.64	31926758.70	31926758.80	0.0088	0.0083
Moon	82701-05-27 09:36 G	31927125.76	31927125.90	31927126.06	0.0088	0.0071
Earth	82701-05-27 12:29 G	31927125.88	31927126.02	31927126.22	0.0088	0.0067 *
Earth	82702-05-30 00:44 G	31927493.32	31927493.53	31927493.76	0.0088	0.0045
Moon	82702-05-30 04:05 G	31927493.44	31927493.67	31927493.91	0.0088	0.0040 *
Moon	82703-06-01 10:34 G	31927860.71	31927860.94	31927861.19	0.0088	0.0028
Earth	82703-06-01 12:44 G	31927860.78	31927861.03	31927861.28	0.0088	0.0023 *
Earth	82704-06-03 00:29 G	31928228.26	31928228.52	31928228.78	0.0088	0.0002
Moon	82704-06-03 01:27 G	31928228.30	31928228.56	31928228.84	0.0088	0.0003 *
Earth	82705-06-05 12:15 G	31928595.76	31928596.01	31928596.27	0.0088	0.0020
Moon	82705-06-05 12:00 G	31928595.76	31928596.00	31928596.26	0.0088	0.0016 *
Moon	82706-06-07 22:20 G	31928963.21	31928963.43	31928963.67	0.0088	0.0046
Earth	82706-06-07 23:46 G	31928963.28	31928963.49	31928963.74	0.0088	0.0042 *
Earth	82707-06-10 11:46 G	31929330.83	31929330.99	31929331.19	0.0088	0.0063
Moon	82707-06-10 13:56 G	31929330.92	31929331.08	31929331.29	0.0088	0.0059 *
Earth	82708-06-11 23:03 G	31929698.43	31929698.46	31929698.57	0.0088	0.0085
Mercury	82717-10-22 21:22 G	31933118.37	31933118.39	31933118.43	0.0088	0.0086
Mercury	82718-01-18 22:48 G	31933206.40	31933206.45	31933206.52	0.0088	0.0079
Mercury	82718-04-17 00:29 G	31933294.45	31933294.52	31933294.61	0.0088	0.0071
Mercury	82718-07-14 01:56 G	31933382.50	31933382.58	31933382.69	0.0088	0.0064
Mercury	82718-10-10 03:22 G	31933470.55	31933470.64	31933470.77	0.0088	0.0057
Mercury	82719-01-06 05:17 G	31933558.60	31933558.72	31933558.84	0.0088	0.0049
Mercury	82719-04-04 06:44 G	31933646.66	31933646.78	31933646.91	0.0088	0.0042
Mercury	82719-07-01 08:24 G	31933734.72	31933734.85	31933734.98	0.0088	0.0034
Mercury	82719-09-27 09:51 G	31933822.78	31933822.91	31933823.05	0.0088	0.0027
Mercury	82719-12-24 11:32 G	31933910.85	31933910.98	31933911.12	0.0088	0.0019
Mercury	82720-03-21 13:12 G	31933998.91	31933999.05	31933999.19	0.0088	0.0011
Mercury	82720-06-17 14:53 G	31934086.97	31934087.12	31934087.26	0.0088	0.0004



Mercury	82720-09-13 16:20 G	31934175.04	31934175.18	31934175.33	0.0088	0.0004
Mercury	82720-12-10 18:00 G	31934263.11	31934263.25	31934263.39	0.0088	0.0011
Mercury	82721-03-08 19:41 G	31934351.18	31934351.32	31934351.46	0.0088	0.0019
Mercury	82721-06-04 21:08 G	31934439.25	31934439.38	31934439.52	0.0088	0.0027
Mercury	82721-08-31 22:34 G	31934527.32	31934527.44	31934527.59	0.0088	0.0035
Mercury	82721-11-28 00:29 G	31934615.39	31934615.52	31934615.65	0.0088	0.0042
Mercury	82722-02-24 01:56 G	31934703.47	31934703.58	31934703.71	0.0088	0.0050
Mercury	82722-05-23 03:22 G	31934791.55	31934791.64	31934791.77	0.0088	0.0058
Mercury	82722-08-19 05:17 G	31934879.63	31934879.72	31934879.82	0.0088	0.0065
Mercury	82722-11-15 06:44 G	31934967.72	31934967.78	31934967.87	0.0088	0.0073
Mercury	82723-02-11 08:24 G	31935055.81	31935055.85	31935055.92	0.0088	0.0081
Mars	82734-12-11 21:08 G	31939377.13	31939377.38	31939377.66	0.0088	0.0047
Mars	82736-11-05 06:58 G	31940071.75	31940071.79	31940071.90	0.0088	0.0085
Venus	82765-09-06 06:58 G	31950603.73	31950603.79	31950603.90	0.0089	0.0082
Venus	82766-04-19 19:56 G	31950829.23	31950829.33	31950829.47	0.0089	0.0073
Venus	82766-12-01 09:08 G	31951054.73	31951054.88	31951055.03	0.0089	0.0063
Venus	82767-07-14 21:51 G	31951280.25	31951280.41	31951280.59	0.0089	0.0054
Venus	82768-02-25 10:34 G	31951505.77	31951505.94	31951506.14	0.0089	0.0045
Venus	82768-10-07 23:17 G	31951731.29	31951731.47	31951731.69	0.0089	0.0036
Venus	82769-05-21 12:29 G	31951956.81	31951957.02	31951957.23	0.0089	0.0026
Venus	82770-01-02 01:12 G	31952182.34	31952182.55	31952182.77	0.0089	0.0017
Venus	82770-08-15 14:10 G	31952407.88	31952408.09	31952408.32	0.0089	0.0008
Venus	82771-03-29 03:08 G	31952633.41	31952633.63	31952633.85	0.0089	0.0002
Venus	82771-11-09 15:51 G	31952858.95	31952859.16	31952859.38	0.0089	0.0011
Venus	82772-06-22 04:34 G	31953084.48	31953084.69	31953084.91	0.0089	0.0020
Venus	82773-02-02 17:32 G	31953310.02	31953310.23	31953310.43	0.0089	0.0030
Venus	82773-09-16 06:00 G	31953535.57	31953535.75	31953535.96	0.0089	0.0039
Venus	82774-04-29 18:44 G	31953761.11	31953761.28	31953761.48	0.0089	0.0049
Venus	82774-12-11 07:41 G	31953986.66	31953986.82	31953986.99	0.0089	0.0058
Venus	82775-07-24 20:39 G	31954212.22	31954212.36	31954212.50	0.0089	0.0067

Venus	82776-03-06 08:53 G	31954437.78	31954437.87	31954438.01	0.0089	0.0077
Venus	82776-10-17 21:51 G	31954663.36	31954663.41	31954663.49	0.0089	0.0085
Earth	82783-11-29 00:15 G	31957261.39	31957261.51	31957261.68	0.0090	0.0073
Moon	82783-11-29 03:36 G	31957261.55	31957261.65	31957261.81	0.0090	0.0077 *
Moon	82784-11-30 09:36 G	31957628.70	31957628.90	31957629.12	0.0090	0.0047
Earth	82784-11-30 12:00 G	31957628.81	31957629.00	31957629.24	0.0090	0.0051 *
Earth	82785-12-03 00:00 G	31957996.26	31957996.50	31957996.75	0.0090	0.0028
Moon	82785-12-03 01:56 G	31957996.36	31957996.58	31957996.85	0.0090	0.0033 *
Moon	82786-12-05 11:03 G	31958363.71	31958363.96	31958364.21	0.0090	0.0002
Earth	82786-12-05 11:32 G	31958363.73	31958363.98	31958364.24	0.0090	0.0006 *
Moon	82787-12-07 22:48 G	31958731.19	31958731.45	31958731.71	0.0090	0.0013
Earth	82787-12-07 23:03 G	31958731.21	31958731.46	31958731.72	0.0090	0.0017 *
Earth	82788-12-09 10:20 G	31959098.72	31959098.93	31959099.17	0.0090	0.0039
Moon	82788-12-09 11:32 G	31959098.78	31959098.98	31959099.22	0.0090	0.0044 *
Moon	82789-12-11 18:29 G	31959466.10	31959466.27	31959466.50	0.0090	0.0058
Earth	82789-12-11 22:05 G	31959466.23	31959466.42	31959466.60	0.0090	0.0061 *
Earth	82790-12-14 09:22 G	31959833.80	31959833.89	31959833.98	0.0090	0.0083
Moon	82790-12-14 11:46 G	31959833.97	31959833.99	31959834.07	0.0090	0.0088 *
Mercury	82800-07-25 23:03 G	31963345.45	31963345.46	31963345.48	0.0090	0.0089
Mercury	82800-10-22 01:56 G	31963433.51	31963433.58	31963433.67	0.0090	0.0079
Mercury	82801-01-18 04:48 G	31963521.60	31963521.70	31963521.82	0.0090	0.0069
Mercury	82801-04-16 07:56 G	31963609.70	31963609.83	31963609.97	0.0090	0.0059
Mercury	82801-07-13 10:48 G	31963697.81	31963697.95	31963698.11	0.0090	0.0049
Mercury	82801-10-09 13:41 G	31963785.92	31963786.07	31963786.24	0.0090	0.0039
Mercury	82802-01-05 16:48 G	31963874.04	31963874.20	31963874.37	0.0090	0.0029
Mercury	82802-04-03 19:41 G	31963962.15	31963962.32	31963962.50	0.0090	0.0019
Mercury	82802-06-30 22:34 G	31964050.27	31964050.44	31964050.62	0.0090	0.0009
Mercury	82802-09-27 01:27 G	31964138.39	31964138.56	31964138.74	0.0090	0.0002
Mercury	82802-12-24 04:20 G	31964226.51	31964226.68	31964226.86	0.0090	0.0011
Mercury	82803-03-22 07:12 G	31964314.63	31964314.80	31964314.97	0.0090	0.0021

Mercury	82803-06-18 09:51 G	31964402.76	31964402.91	31964403.09	0.0090	0.0031
Mercury	82803-09-14 12:58 G	31964490.88	31964491.04	31964491.19	0.0090	0.0040
Mercury	82803-12-11 15:36 G	31964579.01	31964579.15	31964579.30	0.0090	0.0050
Mercury	82804-03-08 18:15 G	31964667.15	31964667.26	31964667.40	0.0090	0.0060
Mercury	82804-06-04 21:22 G	31964755.28	31964755.39	31964755.50	0.0090	0.0069
Mercury	82804-08-31 23:46 G	31964843.43	31964843.49	31964843.59	0.0090	0.0079
Mercury	82804-11-28 02:24 G	31964931.60	31964931.60	31964931.65	0.0090	0.0089
Mars	82816-08-25 17:32 G	31969219.93	31969220.23	31969220.53	0.0089	0.0029
Venus	82846-07-29 06:29 G	31980149.74	31980149.77	31980149.84	0.0088	0.0086
Venus	82847-03-11 19:56 G	31980375.24	31980375.33	31980375.46	0.0088	0.0076
Venus	82847-10-23 09:08 G	31980600.75	31980600.88	31980601.04	0.0088	0.0067
Venus	82848-06-04 22:20 G	31980826.28	31980826.43	31980826.62	0.0088	0.0058
Venus	82849-01-16 12:00 G	31981051.82	31981052.00	31981052.19	0.0088	0.0049
Venus	82849-08-30 01:12 G	31981277.36	31981277.55	31981277.75	0.0088	0.0040
Venus	82850-04-12 14:24 G	31981502.90	31981503.10	31981503.31	0.0088	0.0030
Venus	82850-11-24 03:22 G	31981728.44	31981728.64	31981728.87	0.0088	0.0022
Venus	82851-07-07 16:48 G	31981953.98	31981954.20	31981954.42	0.0088	0.0012
Venus	82852-02-18 06:15 G	31982179.54	31982179.76	31982179.98	0.0088	0.0002
Venus	82852-09-30 19:12 G	31982405.09	31982405.30	31982405.53	0.0088	0.0008
Venus	82853-05-14 08:24 G	31982630.64	31982630.85	31982631.08	0.0088	0.0016
Venus	82853-12-25 21:36 G	31982856.19	31982856.40	31982856.62	0.0088	0.0025
Venus	82854-08-08 10:48 G	31983081.75	31983081.95	31983082.16	0.0088	0.0035
Venus	82855-03-21 23:46 G	31983307.32	31983307.49	31983307.71	0.0088	0.0045
Venus	82855-11-02 12:58 G	31983532.88	31983533.04	31983533.24	0.0088	0.0054
Venus	82856-06-15 02:10 G	31983758.46	31983758.59	31983758.77	0.0088	0.0063
Venus	82857-01-26 15:36 G	31983984.04	31983984.15	31983984.30	0.0088	0.0071
Venus	82857-09-09 05:03 G	31984209.63	31984209.71	31984209.81	0.0088	0.0080
Jupiter	82858-07-05 00:29 G	31984508.10	31984508.52	31984509.04	0.0088	0.0042
Earth	82865-05-26 21:51 G	31987026.28	31987026.41	31987026.56	0.0088	0.0073
Moon	82865-05-27 00:00 G	31987026.39	31987026.50	31987026.67	0.0088	0.0075 *

Moon	82866-05-29 07:27 G	31987393.62	31987393.81	31987394.03	0.0088	0.0051
Earth	82866-05-29 09:22 G	31987393.70	31987393.89	31987394.11	0.0088	0.0052 *
Earth	82867-05-31 20:53 G	31987761.14	31987761.37	31987761.63	0.0088	0.0031
Moon	82867-05-31 21:22 G	31987761.15	31987761.39	31987761.66	0.0088	0.0032 *
Earth	82868-06-02 08:53 G	31988128.61	31988128.87	31988129.13	0.0088	0.0009
Moon	82868-06-02 09:36 G	31988128.66	31988128.90	31988129.16	0.0088	0.0008 *
Moon	82869-06-04 18:58 G	31988496.03	31988496.29	31988496.56	0.0088	0.0012
Earth	82869-06-04 20:39 G	31988496.11	31988496.36	31988496.62	0.0088	0.0013 *
Earth	82870-06-07 08:24 G	31988863.62	31988863.85	31988864.10	0.0088	0.0034
Moon	82870-06-07 11:03 G	31988863.75	31988863.96	31988864.22	0.0088	0.0036 *
Moon	82871-06-09 16:34 G	31989231.00	31989231.19	31989231.41	0.0088	0.0054
Earth	82871-06-09 19:56 G	31989231.15	31989231.33	31989231.55	0.0088	0.0056 *
Earth	82872-06-11 07:41 G	31989598.72	31989598.82	31989598.97	0.0088	0.0077
Moon	82872-06-11 11:32 G	31989598.87	31989598.98	31989599.12	0.0088	0.0077 *
Mercury	82882-07-19 20:53 G	31993289.33	31993289.37	31993289.43	0.0088	0.0082
Mercury	82882-10-15 22:34 G	31993377.37	31993377.44	31993377.52	0.0088	0.0074
Mercury	82883-01-12 00:00 G	31993465.42	31993465.50	31993465.60	0.0088	0.0067
Mercury	82883-04-10 01:27 G	31993553.47	31993553.56	31993553.68	0.0088	0.0060
Mercury	82883-07-07 03:08 G	31993641.52	31993641.63	31993641.75	0.0088	0.0052
Mercury	82883-10-03 04:34 G	31993729.58	31993729.69	31993729.82	0.0088	0.0045
Mercury	82883-12-30 06:15 G	31993817.64	31993817.76	31993817.90	0.0088	0.0037
Mercury	82884-03-27 07:56 G	31993905.70	31993905.83	31993905.97	0.0088	0.0030
Mercury	82884-06-23 09:22 G	31993993.76	31993993.89	31993994.04	0.0088	0.0023
Mercury	82884-09-19 11:03 G	31994081.82	31994081.96	31994082.11	0.0088	0.0015
Mercury	82884-12-16 12:44 G	31994169.89	31994170.03	31994170.17	0.0088	0.0007
Mercury	82885-03-14 14:24 G	31994257.95	31994258.10	31994258.24	0.0088	0.0002
Mercury	82885-06-10 15:51 G	31994346.02	31994346.16	31994346.31	0.0088	0.0008
Mercury	82885-09-06 17:32 G	31994434.09	31994434.23	31994434.37	0.0088	0.0016
Mercury	82885-12-03 18:58 G	31994522.16	31994522.29	31994522.44	0.0088	0.0024
Mercury	82886-03-01 20:39 G	31994610.23	31994610.36	31994610.50	0.0088	0.0031

Mercury	82886-05-28 22:05 G	31994698.30	31994698.42	31994698.56	0.0088	0.0039
Mercury	82886-08-25 00:00 G	31994786.38	31994786.50	31994786.62	0.0088	0.0046
Mercury	82886-11-21 01:27 G	31994874.45	31994874.56	31994874.68	0.0088	0.0054
Mercury	82887-02-17 03:08 G	31994962.53	31994962.63	31994962.74	0.0088	0.0062
Mercury	82887-05-16 04:34 G	31995050.62	31995050.69	31995050.79	0.0088	0.0070
Mercury	82887-08-12 06:29 G	31995138.71	31995138.77	31995138.84	0.0088	0.0077
Mercury	82887-11-08 07:56 G	31995226.81	31995226.83	31995226.88	0.0088	0.0085
Mars	82900-06-21 06:29 G	31999834.50	31999834.77	31999835.08	0.0088	0.0034
Venus	82929-12-09 17:46 G	32010598.21	32010598.24	32010598.34	0.0089	0.0085
Venus	82930-07-23 07:12 G	32010823.69	32010823.80	32010823.92	0.0089	0.0075
Venus	82931-03-05 19:56 G	32011049.20	32011049.33	32011049.48	0.0089	0.0066
Venus	82931-10-17 08:24 G	32011274.70	32011274.85	32011275.04	0.0089	0.0057
Venus	82932-05-29 21:08 G	32011500.22	32011500.38	32011500.58	0.0089	0.0048
Venus	82933-01-10 10:20 G	32011725.74	32011725.93	32011726.13	0.0089	0.0038
Venus	82933-08-23 23:03 G	32011951.27	32011951.46	32011951.68	0.0089	0.0030
Venus	82934-04-06 12:00 G	32012176.79	32012177.00	32012177.22	0.0089	0.0020
Venus	82934-11-18 00:58 G	32012402.32	32012402.54	32012402.76	0.0089	0.0010
Venus	82935-07-01 13:41 G	32012627.86	32012628.07	32012628.29	0.0089	0.0002
Venus	82936-02-12 02:39 G	32012853.39	32012853.61	32012853.83	0.0089	0.0008
Venus	82936-09-24 15:22 G	32013078.93	32013079.14	32013079.36	0.0089	0.0018
Venus	82937-05-08 04:05 G	32013304.47	32013304.67	32013304.88	0.0089	0.0027
Venus	82937-12-19 17:03 G	32013530.01	32013530.21	32013530.41	0.0089	0.0036
Venus	82938-08-02 05:32 G	32013755.56	32013755.73	32013755.93	0.0089	0.0046
Venus	82939-03-15 18:29 G	32013981.11	32013981.27	32013981.45	0.0089	0.0055
Venus	82939-10-27 07:12 G	32014206.66	32014206.80	32014206.96	0.0089	0.0065
Venus	82940-06-08 20:10 G	32014432.22	32014432.34	32014432.46	0.0089	0.0074
Venus	82941-01-20 08:24 G	32014657.80	32014657.85	32014657.95	0.0089	0.0083
Moon	82947-11-29 06:58 G	32017161.71	32017161.79	32017161.88	0.0089	0.0084
Earth	82947-11-29 09:22 G	32017161.79	32017161.89	32017162.01	0.0089	0.0080 *
Earth	82948-11-30 21:08 G	32017529.20	32017529.38	32017529.59	0.0089	0.0058

Moon	82948-11-30 22:20 G	32017529.24	32017529.43	32017529.66	0.0089	0.0055	*
Moon	82949-12-03 08:10 G	32017896.63	32017896.84	32017897.08	0.0090	0.0039	
Earth	82949-12-03 08:53 G	32017896.65	32017896.87	32017897.11	0.0090	0.0036	*
Moon	82950-12-05 19:41 G	32018264.06	32018264.32	32018264.58	0.0090	0.0010	
Earth	82950-12-05 20:39 G	32018264.12	32018264.36	32018264.62	0.0090	0.0014	*
Earth	82951-12-08 08:24 G	32018631.60	32018631.85	32018632.11	0.0090	0.0009	
Moon	82951-12-08 10:34 G	32018631.70	32018631.94	32018632.19	0.0090	0.0006	*
Moon	82952-12-09 16:48 G	32018998.98	32018999.20	32018999.46	0.0090	0.0035	
Earth	82952-12-09 19:41 G	32018999.10	32018999.32	32018999.57	0.0090	0.0032	*
Earth	82953-12-12 06:58 G	32019366.61	32019366.79	32019367.02	0.0090	0.0054	
Moon	82953-12-12 10:34 G	32019366.75	32019366.94	32019367.17	0.0090	0.0051	*
Moon	82954-12-14 15:08 G	32019734.04	32019734.13	32019734.27	0.0090	0.0079	
Earth	82954-12-14 18:29 G	32019734.16	32019734.27	32019734.43	0.0090	0.0076	*
Mercury	82965-04-22 21:36 G	32023516.35	32023516.40	32023516.48	0.0090	0.0084	
Mercury	82965-07-20 00:29 G	32023604.44	32023604.52	32023604.64	0.0090	0.0074	
Mercury	82965-10-16 03:36 G	32023692.54	32023692.65	32023692.79	0.0090	0.0064	
Mercury	82966-01-12 06:58 G	32023780.65	32023780.79	32023780.93	0.0090	0.0053	
Mercury	82966-04-10 09:51 G	32023868.76	32023868.91	32023869.07	0.0090	0.0043	
Mercury	82966-07-07 12:44 G	32023956.87	32023957.03	32023957.20	0.0090	0.0033	
Mercury	82966-10-03 15:36 G	32024044.98	32024045.15	32024045.32	0.0090	0.0023	
Mercury	82966-12-30 18:29 G	32024133.10	32024133.27	32024133.45	0.0090	0.0013	
Mercury	82967-03-28 21:36 G	32024221.22	32024221.40	32024221.57	0.0090	0.0004	
Mercury	82967-06-25 00:29 G	32024309.34	32024309.52	32024309.69	0.0090	0.0007	
Mercury	82967-09-21 03:08 G	32024397.46	32024397.63	32024397.81	0.0090	0.0017	
Mercury	82967-12-18 06:00 G	32024485.59	32024485.75	32024485.92	0.0090	0.0026	
Mercury	82968-03-15 08:53 G	32024573.71	32024573.87	32024574.03	0.0090	0.0036	
Mercury	82968-06-11 11:32 G	32024661.84	32024661.98	32024662.14	0.0090	0.0046	
Mercury	82968-09-07 14:24 G	32024749.97	32024750.10	32024750.25	0.0090	0.0056	
Mercury	82968-12-04 17:17 G	32024838.11	32024838.22	32024838.35	0.0090	0.0065	
Mercury	82969-03-02 19:56 G	32024926.25	32024926.33	32024926.44	0.0090	0.0075	

Mercury	82969-05-29 23:03 G	32025014.40	32025014.46	32025014.52	0.0090	0.0084
Mars	82980-04-10 03:51 G	32028982.60	32028982.66	32028982.80	0.0089	0.0085
Mars	82982-03-06 05:17 G	32029677.50	32029677.72	32029677.98	0.0089	0.0058

# 84TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 84th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	83010-11-01 16:34 G		32040144.19	32040144.19	32040144.22	0.0088	0.0088	
Venus	83011-06-15 05:32 G		32040369.66	32040369.73	32040369.85	0.0088	0.0079	
Venus	83012-01-26 19:27 G		32040595.18	32040595.31	32040595.45	0.0088	0.0070	
Venus	83012-09-08 08:39 G		32040820.70	32040820.86	32040821.03	0.0088	0.0061	
Venus	83013-04-21 21:36 G		32041046.24	32041046.40	32041046.60	0.0088	0.0052	
Venus	83013-12-03 10:48 G		32041271.77	32041271.95	32041272.16	0.0088	0.0043	
Venus	83014-07-17 00:00 G		32041497.31	32041497.50	32041497.72	0.0088	0.0034	
Venus	83015-02-27 13:41 G		32041722.86	32041723.07	32041723.29	0.0088	0.0024	
Venus	83015-10-11 02:53 G		32041948.41	32041948.62	32041948.85	0.0088	0.0014	
Venus	83016-05-23 16:05 G		32042173.95	32042174.17	32042174.40	0.0088	0.0005	
Venus	83017-01-04 05:32 G		32042399.50	32042399.73	32042399.95	0.0088	0.0005	
Venus	83017-08-17 18:44 G		32042625.06	32042625.28	32042625.50	0.0088	0.0014	
Venus	83018-03-31 07:41 G		32042850.61	32042850.82	32042851.04	0.0088	0.0023	
Venus	83018-11-11 20:53 G		32043076.17	32043076.37	32043076.59	0.0088	0.0032	
Venus	83019-06-25 10:05 G		32043301.73	32043301.92	32043302.12	0.0088	0.0041	

Venus	83020-02-05 23:32 G	32043527.30	32043527.48	32043527.66	0.0088	0.0051
Venus	83020-09-18 12:15 G	32043752.87	32043753.01	32043753.19	0.0088	0.0060
Venus	83021-05-02 01:27 G	32043978.44	32043978.56	32043978.72	0.0088	0.0069
Venus	83021-12-13 14:39 G	32044204.03	32044204.11	32044204.23	0.0088	0.0078
Venus	83022-07-27 03:51 G	32044429.65	32044429.66	32044429.71	0.0088	0.0087
Moon	83029-05-28 06:00 G	32046926.64	32046926.75	32046926.88	0.0088	0.0076
Earth	83029-05-28 06:29 G	32046926.69	32046926.77	32046926.90	0.0088	0.0080 *
Earth	83030-05-30 18:00 G	32047294.08	32047294.25	32047294.47	0.0088	0.0059
Moon	83030-05-30 18:44 G	32047294.09	32047294.28	32047294.47	0.0088	0.0062 *
Earth	83031-06-02 05:32 G	32047661.51	32047661.73	32047661.99	0.0088	0.0038
Moon	83031-06-02 07:12 G	32047661.57	32047661.80	32047662.04	0.0088	0.0033 *
Moon	83032-06-03 14:39 G	32048028.86	32048029.11	32048029.38	0.0088	0.0020
Earth	83032-06-03 17:32 G	32048028.98	32048029.23	32048029.49	0.0088	0.0016 *
Earth	83033-06-06 05:17 G	32048396.46	32048396.72	32048396.98	0.0088	0.0005
Moon	83033-06-06 08:10 G	32048396.59	32048396.84	32048397.10	0.0088	0.0010 *
Moon	83034-06-08 12:58 G	32048763.79	32048764.04	32048764.30	0.0088	0.0022
Earth	83034-06-08 16:34 G	32048763.96	32048764.19	32048764.45	0.0088	0.0027 *
Earth	83035-06-11 04:20 G	32049131.47	32049131.68	32049131.91	0.0088	0.0048
Moon	83035-06-11 07:27 G	32049131.62	32049131.81	32049132.04	0.0088	0.0053 *
Moon	83036-06-12 12:58 G	32049498.88	32049499.04	32049499.23	0.0088	0.0065
Earth	83036-06-12 15:51 G	32049499.03	32049499.16	32049499.34	0.0088	0.0070 *
Mercury	83047-01-19 18:58 G	32053372.26	32053372.29	32053372.32	0.0088	0.0085
Mercury	83047-04-17 20:24 G	32053460.29	32053460.35	32053460.42	0.0088	0.0078
Mercury	83047-07-14 21:51 G	32053548.34	32053548.41	32053548.50	0.0088	0.0071
Mercury	83047-10-10 23:32 G	32053636.38	32053636.48	32053636.58	0.0088	0.0063
Mercury	83048-01-07 00:58 G	32053724.44	32053724.54	32053724.65	0.0088	0.0056
Mercury	83048-04-04 02:24 G	32053812.49	32053812.60	32053812.73	0.0088	0.0049
Mercury	83048-07-01 04:05 G	32053900.55	32053900.67	32053900.80	0.0088	0.0041
Mercury	83048-09-27 05:32 G	32053988.61	32053988.73	32053988.87	0.0088	0.0034
Mercury	83048-12-24 07:12 G	32054076.67	32054076.80	32054076.94	0.0088	0.0026



Mercury	83049-03-22 08:53 G	32054164.73	32054164.87	32054165.01	0.0088	0.0019
Mercury	83049-06-18 10:20 G	32054252.80	32054252.93	32054253.08	0.0088	0.0012
Mercury	83049-09-14 12:00 G	32054340.86	32054341.00	32054341.15	0.0088	0.0004
Mercury	83049-12-11 13:41 G	32054428.93	32054429.07	32054429.21	0.0088	0.0004
Mercury	83050-03-09 15:08 G	32054516.99	32054517.13	32054517.28	0.0088	0.0012
Mercury	83050-06-05 16:48 G	32054605.06	32054605.20	32054605.34	0.0088	0.0019
Mercury	83050-09-01 18:29 G	32054693.13	32054693.27	32054693.41	0.0088	0.0027
Mercury	83050-11-28 19:56 G	32054781.20	32054781.33	32054781.47	0.0088	0.0035
Mercury	83051-02-24 21:36 G	32054869.28	32054869.40	32054869.53	0.0088	0.0042
Mercury	83051-05-23 23:17 G	32054957.35	32054957.47	32054957.59	0.0088	0.0050
Mercury	83051-08-20 00:44 G	32055045.43	32055045.53	32055045.65	0.0088	0.0058
Mercury	83051-11-16 02:10 G	32055133.51	32055133.59	32055133.70	0.0088	0.0066
Mercury	83052-02-12 04:05 G	32055221.60	32055221.67	32055221.75	0.0088	0.0073
Mercury	83052-05-10 05:32 G	32055309.69	32055309.73	32055309.80	0.0088	0.0081
Mars	83064-02-05 01:56 G	32059597.29	32059597.58	32059597.90	0.0088	0.0019
Venus	83094-03-14 04:34 G	32070592.68	32070592.69	32070592.75	0.0089	0.0088
Venus	83094-10-25 17:46 G	32070818.14	32070818.24	32070818.34	0.0089	0.0078
Venus	83095-06-08 06:15 G	32071043.64	32071043.76	32071043.91	0.0089	0.0069
Venus	83096-01-19 18:58 G	32071269.15	32071269.29	32071269.47	0.0089	0.0060
Venus	83096-09-01 07:41 G	32071494.66	32071494.82	32071495.02	0.0089	0.0051
Venus	83097-04-14 20:53 G	32071720.18	32071720.37	32071720.57	0.0089	0.0041
Venus	83097-11-26 09:36 G	32071945.70	32071945.90	32071946.11	0.0089	0.0032
Venus	83098-07-09 22:34 G	32072171.23	32072171.44	32072171.65	0.0089	0.0023
Venus	83099-02-20 11:17 G	32072396.76	32072396.97	32072397.19	0.0089	0.0013
Venus	83099-10-04 00:15 G	32072622.29	32072622.51	32072622.73	0.0089	0.0004
Venus	83100-05-17 12:58 G	32072847.82	32072848.04	32072848.26	0.0089	0.0006
Venus	83100-12-29 01:41 G	32073073.36	32073073.57	32073073.79	0.0089	0.0015
Venus	83101-08-11 14:53 G	32073298.91	32073299.12	32073299.33	0.0089	0.0025
Venus	83102-03-25 03:22 G	32073524.45	32073524.64	32073524.85	0.0089	0.0034
Venus	83102-11-05 16:05 G	32073750.00	32073750.17	32073750.37	0.0089	0.0044

Venus	83103-06-19 05:03 G	32073975.54	32073975.71	32073975.89	0.0089	0.0053
Venus	83104-01-30 17:32 G	32074201.10	32074201.23	32074201.41	0.0089	0.0063
Venus	83104-09-12 06:29 G	32074426.66	32074426.77	32074426.92	0.0089	0.0072
Venus	83105-04-25 19:27 G	32074652.23	32074652.31	32074652.41	0.0089	0.0081
Earth	83111-11-30 17:17 G	32077062.19	32077062.22	32077062.29	0.0089	0.0088
Moon	83111-11-30 18:15 G	32077062.20	32077062.26	32077062.37	0.0089	0.0085 *
Earth	83112-12-02 05:03 G	32077429.55	32077429.71	32077429.90	0.0090	0.0066
Moon	83112-12-02 06:00 G	32077429.59	32077429.75	32077429.91	0.0090	0.0068 *
Moon	83113-12-04 15:36 G	32077796.93	32077797.15	32077797.40	0.0090	0.0041
Earth	83113-12-04 16:48 G	32077796.99	32077797.20	32077797.44	0.0090	0.0044 *
Earth	83114-12-07 04:48 G	32078164.46	32078164.70	32078164.96	0.0090	0.0021
Moon	83114-12-07 07:12 G	32078164.57	32078164.80	32078165.05	0.0090	0.0025 *
Moon	83115-12-09 13:27 G	32078531.80	32078532.06	32078532.32	0.0090	0.0003
Earth	83115-12-09 16:48 G	32078531.95	32078532.20	32078532.46	0.0090	0.0001 *
Earth	83116-12-11 04:05 G	32078899.44	32078899.67	32078899.93	0.0090	0.0024
Moon	83116-12-11 07:41 G	32078899.58	32078899.82	32078900.07	0.0090	0.0020 *
Moon	83117-12-13 12:15 G	32079266.81	32079267.01	32079267.23	0.0090	0.0049
Earth	83117-12-13 15:36 G	32079266.95	32079267.15	32079267.39	0.0090	0.0046 *
Earth	83118-12-16 03:08 G	32079634.48	32079634.63	32079634.81	0.0090	0.0068
Moon	83118-12-16 05:32 G	32079634.58	32079634.73	32079634.94	0.0090	0.0065 *
Earth	83119-12-18 14:39 G	32080002.11	32080002.11	32080002.15	0.0090	0.0090
Mercury	83129-10-23 17:17 G	32083599.21	32083599.22	32083599.25	0.0090	0.0089
Mercury	83130-01-19 20:10 G	32083687.27	32083687.34	32083687.44	0.0090	0.0079
Mercury	83130-04-17 23:03 G	32083775.37	32083775.46	32083775.59	0.0090	0.0069
Mercury	83130-07-15 02:10 G	32083863.47	32083863.59	32083863.74	0.0090	0.0059
Mercury	83130-10-11 05:32 G	32083951.58	32083951.73	32083951.88	0.0090	0.0048
Mercury	83131-01-07 08:24 G	32084039.69	32084039.85	32084040.01	0.0090	0.0038
Mercury	83131-04-05 11:32 G	32084127.81	32084127.98	32084128.14	0.0090	0.0028
Mercury	83131-07-02 14:24 G	32084215.93	32084216.10	32084216.27	0.0090	0.0018
Mercury	83131-09-28 17:17 G	32084304.04	32084304.22	32084304.40	0.0090	0.0008

Mercury	83131-12-25 20:10 G	32084392.17	32084392.34	32084392.52	0.0090	0.0002
Mercury	83132-03-22 23:03 G	32084480.29	32084480.46	32084480.64	0.0090	0.0012
Mercury	83132-06-19 01:56 G	32084568.41	32084568.58	32084568.75	0.0090	0.0022
Mercury	83132-09-15 04:34 G	32084656.54	32084656.69	32084656.87	0.0090	0.0032
Mercury	83132-12-12 07:41 G	32084744.67	32084744.82	32084744.98	0.0090	0.0041
Mercury	83133-03-10 10:20 G	32084832.80	32084832.93	32084833.08	0.0090	0.0051
Mercury	83133-06-06 12:58 G	32084920.93	32084921.04	32084921.19	0.0090	0.0061
Mercury	83133-09-02 16:05 G	32085009.07	32085009.17	32085009.28	0.0090	0.0070
Mercury	83133-11-29 18:44 G	32085097.22	32085097.28	32085097.37	0.0090	0.0080
Mercury	83134-02-25 21:36 G	32085185.40	32085185.40	32085185.42	0.0090	0.0089
Mars	83145-10-20 15:22 G	32089439.83	32089440.14	32089440.46	0.0089	0.0002
Venus	83175-09-17 15:51 G	32100364.09	32100364.16	32100364.25	0.0088	0.0082
Venus	83176-04-30 05:03 G	32100589.59	32100589.71	32100589.84	0.0088	0.0073
Venus	83176-12-11 18:00 G	32100815.12	32100815.25	32100815.42	0.0088	0.0064
Venus	83177-07-25 07:27 G	32101040.65	32101040.81	32101041.00	0.0088	0.0054
Venus	83178-03-07 20:39 G	32101266.19	32101266.36	32101266.57	0.0088	0.0045
Venus	83178-10-19 10:20 G	32101491.73	32101491.93	32101492.13	0.0088	0.0036
Venus	83179-06-01 23:17 G	32101717.27	32101717.47	32101717.69	0.0088	0.0027
Venus	83180-01-13 12:44 G	32101942.82	32101943.03	32101943.25	0.0088	0.0017
Venus	83180-08-26 02:10 G	32102168.37	32102168.59	32102168.81	0.0088	0.0008
Venus	83181-04-08 15:22 G	32102393.92	32102394.14	32102394.36	0.0088	0.0002
Venus	83181-11-20 04:20 G	32102619.47	32102619.68	32102619.91	0.0088	0.0012
Venus	83182-07-03 17:32 G	32102845.02	32102845.23	32102845.45	0.0088	0.0021
Venus	83183-02-14 06:44 G	32103070.58	32103070.78	32103071.00	0.0088	0.0030
Venus	83183-09-27 19:56 G	32103296.14	32103296.33	32103296.54	0.0088	0.0039
Venus	83184-05-10 09:08 G	32103521.70	32103521.88	32103522.07	0.0088	0.0048
Venus	83184-12-21 22:20 G	32103747.27	32103747.43	32103747.60	0.0088	0.0057
Venus	83185-08-04 11:03 G	32103972.84	32103972.96	32103973.13	0.0088	0.0067
Venus	83186-03-18 00:29 G	32104198.43	32104198.52	32104198.65	0.0088	0.0076
Venus	83186-10-29 13:27 G	32104424.03	32104424.06	32104424.14	0.0088	0.0085

Moon	83193-05-28 13:41 G	32106826.99	32106827.07	32106827.16	0.0088	0.0083
Earth	83193-05-28 14:10 G	32106827.08	32106827.09	32106827.16	0.0088	0.0087 *
Earth	83194-05-31 01:41 G	32107194.43	32107194.57	32107194.77	0.0088	0.0066
Moon	83194-05-31 03:51 G	32107194.52	32107194.66	32107194.83	0.0088	0.0068 *
Moon	83195-06-02 10:48 G	32107561.73	32107561.95	32107562.20	0.0088	0.0042
Earth	83195-06-02 13:27 G	32107561.86	32107562.06	32107562.31	0.0088	0.0045 *
Earth	83196-06-04 01:27 G	32107929.31	32107929.56	32107929.81	0.0088	0.0023
Moon	83196-06-04 05:03 G	32107929.47	32107929.71	32107929.96	0.0088	0.0026 *
Moon	83197-06-06 09:36 G	32108296.64	32108296.90	32108297.16	0.0088	0.0000
Earth	83197-06-06 12:58 G	32108296.78	32108297.04	32108297.31	0.0088	0.0003 *
Earth	83198-06-09 00:15 G	32108664.27	32108664.51	32108664.78	0.0088	0.0020
Moon	83198-06-09 03:51 G	32108664.42	32108664.66	32108664.93	0.0088	0.0018 *
Moon	83199-06-11 09:51 G	32109031.69	32109031.91	32109032.13	0.0088	0.0043
Earth	83199-06-11 11:46 G	32109031.78	32109031.99	32109032.24	0.0088	0.0041 *
Earth	83200-06-12 23:32 G	32109399.32	32109399.48	32109399.68	0.0088	0.0062
Moon	83200-06-13 01:41 G	32109399.38	32109399.57	32109399.77	0.0088	0.0060 *
Moon	83201-06-15 10:34 G	32109766.90	32109766.94	32109767.02	0.0088	0.0085
Earth	83201-06-15 11:17 G	32109766.91	32109766.97	32109767.07	0.0088	0.0083 *
Mercury	83211-10-17 18:00 G	32113543.22	32113543.25	32113543.32	0.0088	0.0082
Mercury	83212-01-13 19:56 G	32113631.26	32113631.33	32113631.40	0.0088	0.0074
Mercury	83212-04-10 21:22 G	32113719.30	32113719.39	32113719.48	0.0088	0.0067
Mercury	83212-07-07 22:48 G	32113807.35	32113807.45	32113807.56	0.0088	0.0060
Mercury	83212-10-04 00:15 G	32113895.41	32113895.51	32113895.63	0.0088	0.0052
Mercury	83212-12-31 01:56 G	32113983.46	32113983.58	32113983.70	0.0088	0.0045
Mercury	83213-03-29 03:22 G	32114071.52	32114071.64	32114071.78	0.0088	0.0038
Mercury	83213-06-25 05:03 G	32114159.58	32114159.71	32114159.85	0.0088	0.0030
Mercury	83213-09-21 06:29 G	32114247.64	32114247.77	32114247.92	0.0088	0.0023
Mercury	83213-12-18 08:10 G	32114335.70	32114335.84	32114335.98	0.0088	0.0015
Mercury	83214-03-16 09:51 G	32114423.77	32114423.91	32114424.05	0.0088	0.0008
Mercury	83214-06-12 11:17 G	32114511.83	32114511.97	32114512.12	0.0088	0.0002

Mercury	83214-09-08 12:58 G	32114599.90	32114600.04	32114600.18	0.0088	0.0008
Mercury	83214-12-05 14:24 G	32114687.96	32114688.10	32114688.25	0.0088	0.0015
Mercury	83215-03-03 16:05 G	32114776.03	32114776.17	32114776.31	0.0088	0.0023
Mercury	83215-05-30 17:32 G	32114864.10	32114864.23	32114864.37	0.0088	0.0031
Mercury	83215-08-26 19:12 G	32114952.18	32114952.30	32114952.43	0.0088	0.0038
Mercury	83215-11-22 20:39 G	32115040.25	32115040.36	32115040.49	0.0088	0.0046
Mercury	83216-02-18 22:20 G	32115128.33	32115128.43	32115128.55	0.0088	0.0054
Mercury	83216-05-17 00:00 G	32115216.40	32115216.50	32115216.61	0.0088	0.0061
Mercury	83216-08-13 01:27 G	32115304.49	32115304.56	32115304.66	0.0088	0.0069
Mercury	83216-11-09 03:08 G	32115392.58	32115392.63	32115392.71	0.0088	0.0077
Mercury	83217-02-05 05:03 G	32115480.68	32115480.71	32115480.75	0.0088	0.0084
Mars	83227-09-20 16:48 G	32119360.07	32119360.20	32119360.42	0.0088	0.0073
Mars	83229-08-15 07:41 G	32120054.61	32120054.82	32120055.07	0.0088	0.0060
Venus	83259-01-28 03:08 G	32130812.57	32130812.63	32130812.74	0.0089	0.0082
Venus	83259-09-10 16:20 G	32131038.06	32131038.18	32131038.31	0.0089	0.0072
Venus	83260-04-23 05:03 G	32131263.57	32131263.71	32131263.87	0.0089	0.0063
Venus	83260-12-04 17:46 G	32131489.08	32131489.24	32131489.43	0.0089	0.0054
Venus	83261-07-18 06:58 G	32131714.60	32131714.79	32131714.98	0.0089	0.0044
Venus	83262-02-28 19:27 G	32131940.12	32131940.31	32131940.52	0.0089	0.0035
Venus	83262-10-12 08:10 G	32132165.64	32132165.84	32132166.06	0.0089	0.0026
Venus	83263-05-25 21:08 G	32132391.17	32132391.38	32132391.60	0.0089	0.0016
Venus	83264-01-06 09:51 G	32132616.70	32132616.91	32132617.13	0.0089	0.0007
Venus	83264-08-18 22:48 G	32132842.23	32132842.45	32132842.67	0.0089	0.0003
Venus	83265-04-01 11:32 G	32133067.77	32133067.98	32133068.20	0.0089	0.0012
Venus	83265-11-13 00:29 G	32133293.31	32133293.52	32133293.73	0.0089	0.0021
Venus	83266-06-26 12:58 G	32133518.85	32133519.04	32133519.26	0.0089	0.0031
Venus	83267-02-07 01:56 G	32133744.39	32133744.58	32133744.78	0.0089	0.0040
Venus	83267-09-20 14:39 G	32133969.95	32133970.11	32133970.31	0.0089	0.0050
Venus	83268-05-03 03:22 G	32134195.50	32134195.64	32134195.82	0.0089	0.0060
Venus	83268-12-14 16:20 G	32134421.06	32134421.18	32134421.33	0.0089	0.0069

Venus	83269-07-28 05:32 G	32134646.63	32134646.73	32134646.84	0.0089	0.0078
Venus	83270-03-10 17:46 G	32134872.22	32134872.24	32134872.31	0.0089	0.0088
Moon	83276-12-01 10:34 G	32137329.82	32137329.94	32137330.07	0.0089	0.0078
Earth	83276-12-01 12:29 G	32137329.90	32137330.02	32137330.19	0.0089	0.0074 *
Earth	83277-12-04 00:29 G	32137697.32	32137697.52	32137697.74	0.0090	0.0052
Moon	83277-12-04 03:08 G	32137697.43	32137697.63	32137697.86	0.0090	0.0048 *
Moon	83278-12-06 08:53 G	32138064.64	32138064.87	32138065.12	0.0090	0.0034
Earth	83278-12-06 12:15 G	32138064.79	32138065.01	32138065.27	0.0090	0.0030 *
Earth	83279-12-09 00:15 G	32138432.26	32138432.51	32138432.77	0.0090	0.0007
Moon	83279-12-09 03:51 G	32138432.41	32138432.66	32138432.92	0.0090	0.0003 *
Moon	83280-12-10 08:39 G	32138799.62	32138799.86	32138800.12	0.0090	0.0012
Earth	83280-12-10 11:46 G	32138799.75	32138799.99	32138800.25	0.0090	0.0016 *
Earth	83281-12-12 23:46 G	32139167.26	32139167.49	32139167.72	0.0090	0.0037
Moon	83281-12-13 02:24 G	32139167.38	32139167.60	32139167.84	0.0090	0.0041 *
Moon	83282-12-15 09:51 G	32139534.74	32139534.91	32139535.13	0.0090	0.0056
Earth	83282-12-15 11:03 G	32139534.79	32139534.96	32139535.17	0.0090	0.0060 *
Earth	83283-12-17 22:48 G	32139902.35	32139902.45	32139902.56	0.0090	0.0081
Moon	83283-12-17 22:34 G	32139902.39	32139902.44	32139902.56	0.0090	0.0085 *
Mercury	83294-07-20 15:22 G	32143770.10	32143770.14	32143770.21	0.0090	0.0085
Mercury	83294-10-16 18:29 G	32143858.19	32143858.27	32143858.38	0.0090	0.0075
Mercury	83295-01-12 21:22 G	32143946.29	32143946.39	32143946.53	0.0090	0.0065
Mercury	83295-04-11 00:29 G	32144034.39	32144034.52	32144034.67	0.0090	0.0055
Mercury	83295-07-08 03:51 G	32144122.50	32144122.66	32144122.81	0.0090	0.0044
Mercury	83295-10-04 06:44 G	32144210.62	32144210.78	32144210.95	0.0090	0.0034
Mercury	83295-12-31 09:36 G	32144298.74	32144298.90	32144299.08	0.0090	0.0024
Mercury	83296-03-28 12:44 G	32144386.85	32144387.03	32144387.20	0.0090	0.0014
Mercury	83296-06-24 15:36 G	32144474.97	32144475.15	32144475.33	0.0090	0.0004
Mercury	83296-09-20 18:29 G	32144563.10	32144563.27	32144563.45	0.0090	0.0006
Mercury	83296-12-17 21:22 G	32144651.22	32144651.39	32144651.57	0.0090	0.0016
Mercury	83297-03-16 00:15 G	32144739.35	32144739.51	32144739.68	0.0090	0.0026

Mercury	83297-06-12 03:08 G	32144827.48	32144827.63	32144827.80	0.0090	0.0036
Mercury	83297-09-08 05:46 G	32144915.60	32144915.74	32144915.91	0.0090	0.0046
Mercury	83297-12-05 08:53 G	32145003.74	32145003.87	32145004.01	0.0090	0.0055
Mercury	83298-03-03 11:32 G	32145091.87	32145091.98	32145092.11	0.0090	0.0065
Mercury	83298-05-30 14:10 G	32145180.02	32145180.09	32145180.21	0.0090	0.0075
Mercury	83298-08-26 17:17 G	32145268.17	32145268.22	32145268.29	0.0090	0.0084
Mars	83309-06-04 23:17 G	32149202.24	32149202.47	32149202.73	0.0089	0.0056
Mars	83311-04-30 23:17 G	32149897.42	32149897.47	32149897.60	0.0089	0.0086
Venus	83339-12-21 01:27 G	32160358.50	32160358.56	32160358.62	0.0088	0.0085
Venus	83340-08-02 14:24 G	32160584.00	32160584.10	32160584.22	0.0088	0.0076
Venus	83341-03-16 03:36 G	32160809.52	32160809.65	32160809.81	0.0088	0.0067
Venus	83341-10-27 16:34 G	32161035.04	32161035.19	32161035.38	0.0088	0.0058
Venus	83342-06-10 05:46 G	32161260.58	32161260.74	32161260.95	0.0088	0.0049
Venus	83343-01-21 19:27 G	32161486.12	32161486.31	32161486.52	0.0088	0.0039
Venus	83343-09-04 08:39 G	32161711.66	32161711.86	32161712.08	0.0088	0.0029
Venus	83344-04-16 21:51 G	32161937.21	32161937.41	32161937.64	0.0088	0.0020
Venus	83344-11-28 11:17 G	32162162.75	32162162.97	32162163.19	0.0088	0.0010
Venus	83345-07-12 00:29 G	32162388.30	32162388.52	32162388.75	0.0088	0.0003
Venus	83346-02-22 13:56 G	32162613.86	32162614.08	32162614.31	0.0088	0.0008
Venus	83346-10-06 03:08 G	32162839.42	32162839.63	32162839.85	0.0088	0.0018
Venus	83347-05-19 16:05 G	32163064.97	32163065.17	32163065.40	0.0088	0.0028
Venus	83347-12-31 05:32 G	32163290.53	32163290.73	32163290.94	0.0088	0.0036
Venus	83348-08-12 18:29 G	32163516.10	32163516.27	32163516.48	0.0088	0.0046
Venus	83349-03-26 07:41 G	32163741.67	32163741.82	32163742.01	0.0088	0.0055
Venus	83349-11-06 20:53 G	32163967.24	32163967.37	32163967.54	0.0088	0.0064
Venus	83350-06-20 10:05 G	32164192.81	32164192.92	32164193.06	0.0088	0.0074
Venus	83351-01-31 23:32 G	32164418.41	32164418.48	32164418.56	0.0088	0.0083
Moon	83358-05-31 06:15 G	32167094.63	32167094.76	32167094.95	0.0088	0.0070
Earth	83358-05-31 09:36 G	32167094.78	32167094.90	32167095.07	0.0088	0.0073 *
Earth	83359-06-02 21:08 G	32167462.19	32167462.38	32167462.61	0.0088	0.0052

Moon	83359-06-03 00:29 G	32167462.35	32167462.52	32167462.75	0.0088	0.0056 *
Moon	83360-06-04 05:32 G	32167829.49	32167829.73	32167829.98	0.0088	0.0027
Earth	83360-06-04 08:53 G	32167829.64	32167829.87	32167830.13	0.0088	0.0031 *
Earth	83361-06-06 20:39 G	32168197.10	32168197.36	32168197.62	0.0088	0.0009
Moon	83361-06-06 23:32 G	32168197.22	32168197.48	32168197.75	0.0088	0.0013 *
Moon	83362-06-09 05:32 G	32168564.49	32168564.73	32168564.99	0.0088	0.0016
Earth	83362-06-09 08:10 G	32168564.58	32168564.84	32168565.10	0.0088	0.0012 *
Earth	83363-06-11 19:27 G	32168932.08	32168932.31	32168932.56	0.0088	0.0033
Moon	83363-06-11 20:39 G	32168932.11	32168932.36	32168932.62	0.0088	0.0029 *
Earth	83364-06-13 06:58 G	32169299.60	32169299.79	32169300.01	0.0088	0.0054
Moon	83364-06-13 06:58 G	32169299.63	32169299.79	32169300.00	0.0088	0.0058 *
Moon	83365-06-15 17:17 G	32169667.08	32169667.22	32169667.39	0.0088	0.0071
Earth	83365-06-15 18:29 G	32169667.15	32169667.27	32169667.42	0.0088	0.0075 *
Mercury	83376-04-17 15:51 G	32173626.14	32173626.16	32173626.20	0.0088	0.0086
Mercury	83376-07-14 17:17 G	32173714.17	32173714.22	32173714.30	0.0088	0.0079
Mercury	83376-10-10 18:58 G	32173802.22	32173802.29	32173802.38	0.0088	0.0071
Mercury	83377-01-06 20:24 G	32173890.27	32173890.35	32173890.46	0.0088	0.0064
Mercury	83377-04-04 21:51 G	32173978.32	32173978.41	32173978.53	0.0088	0.0057
Mercury	83377-07-01 23:46 G	32174066.37	32174066.49	32174066.60	0.0088	0.0049
Mercury	83377-09-28 01:12 G	32174154.43	32174154.55	32174154.68	0.0088	0.0042
Mercury	83377-12-25 02:39 G	32174242.49	32174242.61	32174242.75	0.0088	0.0034
Mercury	83378-03-23 04:20 G	32174330.54	32174330.68	32174330.81	0.0088	0.0027
Mercury	83378-06-19 05:46 G	32174418.60	32174418.74	32174418.88	0.0088	0.0020
Mercury	83378-09-15 07:27 G	32174506.67	32174506.81	32174506.95	0.0088	0.0012
Mercury	83378-12-12 08:53 G	32174594.73	32174594.87	32174595.02	0.0088	0.0005
Mercury	83379-03-10 10:34 G	32174682.80	32174682.94	32174683.08	0.0088	0.0003
Mercury	83379-06-06 12:00 G	32174770.86	32174771.00	32174771.15	0.0088	0.0011
Mercury	83379-09-02 13:41 G	32174858.93	32174859.07	32174859.21	0.0088	0.0018
Mercury	83379-11-29 15:08 G	32174947.00	32174947.13	32174947.27	0.0088	0.0026
Mercury	83380-02-25 16:34 G	32175035.07	32175035.19	32175035.33	0.0088	0.0034



Mercury	83380-05-23 18:29 G	32175123.14	32175123.27	32175123.39	0.0088	0.0041
Mercury	83380-08-19 19:56 G	32175211.22	32175211.33	32175211.45	0.0088	0.0049
Mercury	83380-11-15 21:22 G	32175299.29	32175299.39	32175299.51	0.0088	0.0057
Mercury	83381-02-11 23:03 G	32175387.37	32175387.46	32175387.57	0.0088	0.0064
Mercury	83381-05-11 00:44 G	32175475.46	32175475.53	32175475.62	0.0088	0.0072
Mercury	83381-08-07 02:10 G	32175563.55	32175563.59	32175563.67	0.0088	0.0080
Mercury	83381-11-03 04:05 G	32175651.66	32175651.67	32175651.69	0.0088	0.0087
Mars	83393-03-31 00:00 G	32179817.19	32179817.50	32179817.82	0.0088	0.0007
Venus	83423-05-03 12:58 G	32190806.99	32190807.04	32190807.11	0.0089	0.0085
Venus	83423-12-15 01:41 G	32191032.47	32191032.57	32191032.70	0.0089	0.0076
Venus	83424-07-27 14:53 G	32191257.98	32191258.12	32191258.27	0.0089	0.0066
Venus	83425-03-10 03:36 G	32191483.49	32191483.65	32191483.82	0.0089	0.0057
Venus	83425-10-21 16:05 G	32191709.00	32191709.17	32191709.37	0.0089	0.0048
Venus	83426-06-04 05:03 G	32191934.52	32191934.71	32191934.91	0.0089	0.0039
Venus	83427-01-15 17:46 G	32192160.04	32192160.24	32192160.46	0.0089	0.0029
Venus	83427-08-29 06:58 G	32192385.58	32192385.79	32192386.00	0.0089	0.0020
Venus	83428-04-10 19:41 G	32192611.10	32192611.32	32192611.54	0.0089	0.0010
Venus	83428-11-22 08:24 G	32192836.63	32192836.85	32192837.07	0.0089	0.0001
Venus	83429-07-05 21:08 G	32193062.16	32193062.38	32193062.60	0.0089	0.0009
Venus	83430-02-16 09:51 G	32193287.70	32193287.91	32193288.13	0.0089	0.0018
Venus	83430-09-29 22:34 G	32193513.24	32193513.44	32193513.66	0.0089	0.0028
Venus	83431-05-13 11:17 G	32193738.78	32193738.97	32193739.18	0.0089	0.0037
Venus	83431-12-25 00:15 G	32193964.33	32193964.51	32193964.70	0.0089	0.0047
Venus	83432-08-06 12:58 G	32194189.88	32194190.04	32194190.22	0.0089	0.0056
Venus	83433-03-20 01:56 G	32194415.44	32194415.58	32194415.73	0.0089	0.0066
Venus	83433-10-31 14:24 G	32194641.00	32194641.10	32194641.24	0.0089	0.0075
Jupiter	83433-12-09 10:48 G	32194679.81	32194679.95	32194680.12	0.0089	0.0086
Venus	83434-06-14 03:08 G	32194866.58	32194866.63	32194866.72	0.0089	0.0085
Earth	83440-12-02 18:58 G	32197230.21	32197230.29	32197230.41	0.0090	0.0082
Moon	83440-12-02 22:34 G	32197230.35	32197230.44	32197230.56	0.0090	0.0081 *

Moon	83441-12-05 03:36 G	32197597.47	32197597.65	32197597.85	0.0090	0.0061
Earth	83441-12-05 06:58 G	32197597.62	32197597.79	32197597.99	0.0090	0.0060 *
Earth	83442-12-07 18:58 G	32197965.06	32197965.29	32197965.52	0.0090	0.0038
Moon	83442-12-07 22:20 G	32197965.20	32197965.43	32197965.68	0.0090	0.0036 *
Moon	83443-12-10 03:36 G	32198332.41	32198332.65	32198332.91	0.0090	0.0018
Earth	83443-12-10 06:29 G	32198332.52	32198332.77	32198333.03	0.0090	0.0016 *
Earth	83444-12-11 18:15 G	32198700.01	32198700.26	32198700.52	0.0090	0.0006
Moon	83444-12-11 20:10 G	32198700.08	32198700.34	32198700.61	0.0090	0.0008 *
Moon	83445-12-14 05:03 G	32199067.48	32199067.71	32199067.95	0.0090	0.0026
Earth	83445-12-14 05:46 G	32199067.52	32199067.74	32199068.00	0.0090	0.0029 *
Moon	83446-12-16 17:03 G	32199435.00	32199435.21	32199435.43	0.0090	0.0052
Earth	83446-12-16 17:32 G	32199435.04	32199435.23	32199435.46	0.0090	0.0051 *
Earth	83447-12-19 05:03 G	32199802.59	32199802.71	32199802.88	0.0090	0.0073
Moon	83447-12-19 06:44 G	32199802.65	32199802.78	32199802.95	0.0090	0.0071 *
Mercury	83459-04-18 13:12 G	32203941.00	32203941.05	32203941.15	0.0090	0.0082
Mercury	83459-07-15 16:34 G	32204029.09	32204029.19	32204029.31	0.0090	0.0071
Mercury	83459-10-11 19:41 G	32204117.20	32204117.32	32204117.46	0.0090	0.0061
Mercury	83460-01-07 22:34 G	32204205.31	32204205.44	32204205.60	0.0090	0.0051
Mercury	83460-04-05 01:41 G	32204293.42	32204293.57	32204293.74	0.0090	0.0041
Mercury	83460-07-02 04:34 G	32204381.54	32204381.69	32204381.87	0.0090	0.0031
Mercury	83460-09-28 07:41 G	32204469.66	32204469.82	32204470.00	0.0090	0.0021
Mercury	83460-12-25 10:48 G	32204557.78	32204557.95	32204558.13	0.0090	0.0010
Mercury	83461-03-23 13:41 G	32204645.90	32204646.07	32204646.25	0.0090	0.0003
Mercury	83461-06-19 16:48 G	32204734.02	32204734.20	32204734.37	0.0090	0.0010
Mercury	83461-09-15 19:41 G	32204822.15	32204822.32	32204822.49	0.0090	0.0020
Mercury	83461-12-12 22:20 G	32204910.28	32204910.43	32204910.61	0.0090	0.0030
Mercury	83462-03-11 01:12 G	32204998.41	32204998.55	32204998.72	0.0090	0.0040
Mercury	83462-06-07 04:05 G	32205086.54	32205086.67	32205086.83	0.0090	0.0050
Mercury	83462-09-03 07:12 G	32205174.67	32205174.80	32205174.93	0.0090	0.0059
Mercury	83462-11-30 09:51 G	32205262.81	32205262.91	32205263.03	0.0090	0.0069

Mercury	83463-02-26 12:29 G	32205350.96	32205351.02	32205351.12	0.0090	0.0079
Mercury	83463-05-25 15:36 G	32205439.13	32205439.15	32205439.19	0.0090	0.0088
Mars	83474-12-14 06:15 G	32209659.47	32209659.76	32209660.07	0.0089	0.0027
Venus	83504-03-25 10:20 G	32220352.93	32220352.93	32220352.97	0.0088	0.0088
Venus	83504-11-05 23:46 G	32220578.40	32220578.49	32220578.59	0.0088	0.0079
Venus	83505-06-19 12:44 G	32220803.91	32220804.03	32220804.18	0.0088	0.0070
Venus	83506-01-31 01:56 G	32221029.43	32221029.58	32221029.76	0.0088	0.0060
Venus	83506-09-13 14:53 G	32221254.96	32221255.12	32221255.32	0.0088	0.0052
Venus	83507-04-27 04:20 G	32221480.50	32221480.68	32221480.89	0.0088	0.0042
Venus	83507-12-08 17:32 G	32221706.03	32221706.23	32221706.45	0.0088	0.0032
Venus	83508-07-21 06:44 G	32221931.58	32221931.78	32221932.01	0.0088	0.0023
Venus	83509-03-03 20:24 G	32222157.13	32222157.35	32222157.57	0.0088	0.0013
Venus	83509-10-15 09:36 G	32222382.68	32222382.90	32222383.12	0.0088	0.0004
Venus	83510-05-28 22:48 G	32222608.23	32222608.45	32222608.67	0.0088	0.0005
Venus	83511-01-09 11:46 G	32222833.78	32222833.99	32222834.22	0.0088	0.0015
Venus	83511-08-23 01:12 G	32223059.34	32223059.55	32223059.77	0.0088	0.0024
Venus	83512-04-04 14:39 G	32223284.90	32223285.11	32223285.31	0.0088	0.0034
Venus	83512-11-16 03:22 G	32223510.46	32223510.64	32223510.85	0.0088	0.0043
Venus	83513-06-29 16:48 G	32223736.03	32223736.20	32223736.39	0.0088	0.0052
Venus	83514-02-10 06:15 G	32223961.60	32223961.76	32223961.92	0.0088	0.0061
Venus	83514-09-23 18:58 G	32224187.18	32224187.29	32224187.44	0.0088	0.0071
Venus	83515-05-07 08:10 G	32224412.77	32224412.84	32224412.95	0.0088	0.0080
Earth	83522-06-01 16:20 G	32226995.09	32226995.18	32226995.30	0.0088	0.0080
Moon	83522-06-01 19:41 G	32226995.22	32226995.32	32226995.47	0.0088	0.0076 *
Moon	83523-06-04 01:12 G	32227362.37	32227362.55	32227362.73	0.0088	0.0062
Earth	83523-06-04 04:05 G	32227362.50	32227362.67	32227362.88	0.0088	0.0059 *
Earth	83524-06-05 15:51 G	32227729.93	32227730.16	32227730.40	0.0088	0.0038
Moon	83524-06-05 18:44 G	32227730.04	32227730.28	32227730.53	0.0088	0.0034 *
Moon	83525-06-08 01:56 G	32228097.35	32228097.58	32228097.84	0.0088	0.0021
Earth	83525-06-08 03:22 G	32228097.39	32228097.64	32228097.91	0.0088	0.0017 *

Earth	83526-06-10 15:08 G	32228464.87	32228465.13	32228465.39	0.0088	0.0004
Moon	83526-06-10 15:51 G	32228464.90	32228465.16	32228465.44	0.0088	0.0007 *
Earth	83527-06-13 02:24 G	32228832.37	32228832.60	32228832.87	0.0088	0.0026
Moon	83527-06-13 03:36 G	32228832.41	32228832.65	32228832.90	0.0088	0.0022 *
Moon	83528-06-14 11:46 G	32229199.78	32229199.99	32229200.22	0.0088	0.0050
Earth	83528-06-14 13:41 G	32229199.88	32229200.07	32229200.32	0.0088	0.0047 *
Earth	83529-06-17 01:12 G	32229567.41	32229567.55	32229567.74	0.0088	0.0068
Moon	83529-06-17 03:51 G	32229567.51	32229567.66	32229567.86	0.0088	0.0065 *
Mercury	83541-01-14 15:08 G	32233797.10	32233797.13	32233797.18	0.0088	0.0083
Mercury	83541-04-12 16:34 G	32233885.13	32233885.19	32233885.27	0.0088	0.0076
Mercury	83541-07-09 18:15 G	32233973.18	32233973.26	32233973.35	0.0088	0.0068
Mercury	83541-10-05 19:41 G	32234061.23	32234061.32	32234061.43	0.0088	0.0061
Mercury	83542-01-01 21:08 G	32234149.28	32234149.38	32234149.50	0.0088	0.0054
Mercury	83542-03-30 22:34 G	32234237.33	32234237.44	32234237.57	0.0088	0.0047
Mercury	83542-06-27 00:15 G	32234325.39	32234325.51	32234325.64	0.0088	0.0039
Mercury	83542-09-23 01:41 G	32234413.45	32234413.57	32234413.71	0.0088	0.0032
Mercury	83542-12-20 03:22 G	32234501.51	32234501.64	32234501.78	0.0088	0.0024
Mercury	83543-03-18 05:03 G	32234589.57	32234589.71	32234589.85	0.0088	0.0017
Mercury	83543-06-14 06:29 G	32234677.63	32234677.77	32234677.91	0.0088	0.0009
Mercury	83543-09-10 08:10 G	32234765.69	32234765.84	32234765.98	0.0088	0.0003
Mercury	83543-12-07 09:36 G	32234853.76	32234853.90	32234854.04	0.0088	0.0006
Mercury	83544-03-04 11:03 G	32234941.82	32234941.96	32234942.11	0.0088	0.0014
Mercury	83544-05-31 12:44 G	32235029.89	32235030.03	32235030.17	0.0088	0.0021
Mercury	83544-08-27 14:10 G	32235117.96	32235118.09	32235118.23	0.0088	0.0029
Mercury	83544-11-23 15:51 G	32235206.03	32235206.16	32235206.29	0.0088	0.0036
Mercury	83545-02-19 17:17 G	32235294.10	32235294.22	32235294.35	0.0088	0.0044
Mercury	83545-05-18 18:44 G	32235382.18	32235382.28	32235382.41	0.0088	0.0052
Mercury	83545-08-14 20:39 G	32235470.26	32235470.36	32235470.47	0.0088	0.0059
Mercury	83545-11-10 22:05 G	32235558.34	32235558.42	32235558.52	0.0088	0.0067
Mercury	83546-02-06 23:32 G	32235646.42	32235646.48	32235646.57	0.0088	0.0075

Mercury	83546-05-06 01:27 G	32235734.52	32235734.56	32235734.61	0.0088	0.0082
Mars	83556-11-14 12:15 G	32239579.76	32239580.01	32239580.28	0.0088	0.0049
Mars	83558-10-10 04:05 G	32240274.58	32240274.67	32240274.77	0.0088	0.0083
Saturn	83559-06-10 03:22 G	32240517.08	32240517.64	32240518.34	0.0088	0.0043
Venus	83587-08-05 21:51 G	32250801.41	32250801.41	32250801.43	0.0089	0.0089
Venus	83588-03-18 10:20 G	32251026.86	32251026.93	32251027.05	0.0089	0.0080
Venus	83588-10-29 23:32 G	32251252.36	32251252.48	32251252.62	0.0089	0.0070
Venus	83589-06-12 12:00 G	32251477.86	32251478.00	32251478.18	0.0089	0.0061
Venus	83590-01-24 00:44 G	32251703.38	32251703.53	32251703.73	0.0089	0.0052
Venus	83590-09-06 13:56 G	32251928.90	32251929.08	32251929.28	0.0089	0.0042
Venus	83591-04-20 02:39 G	32252154.42	32252154.61	32252154.83	0.0089	0.0033
Venus	83591-12-01 15:36 G	32252379.95	32252380.15	32252380.37	0.0089	0.0023
Venus	83592-07-14 04:20 G	32252605.47	32252605.68	32252605.91	0.0089	0.0014
Venus	83593-02-24 17:17 G	32252831.00	32252831.22	32252831.44	0.0089	0.0004
Venus	83593-10-08 06:00 G	32253056.54	32253056.75	32253056.97	0.0089	0.0006
Venus	83594-05-21 18:44 G	32253282.07	32253282.28	32253282.50	0.0089	0.0015
Venus	83595-01-02 07:27 G	32253507.61	32253507.81	32253508.03	0.0089	0.0025
Venus	83595-08-15 20:10 G	32253733.16	32253733.34	32253733.56	0.0089	0.0034
Venus	83596-03-28 09:08 G	32253958.70	32253958.88	32253959.08	0.0089	0.0043
Venus	83596-11-08 21:36 G	32254184.25	32254184.40	32254184.60	0.0089	0.0053
Venus	83597-06-22 10:34 G	32254409.80	32254409.94	32254410.11	0.0089	0.0062
Venus	83598-02-02 23:32 G	32254635.36	32254635.48	32254635.61	0.0089	0.0072
Venus	83598-09-16 12:00 G	32254860.94	32254861.00	32254861.12	0.0089	0.0082
Jupiter	83600-02-16 03:51 G	32255378.18	32255378.66	32255379.22	0.0089	0.0032
Moon	83604-12-02 21:36 G	32257130.34	32257130.40	32257130.49	0.0089	0.0085
Earth	83605-12-05 12:44 G	32257497.89	32257498.03	32257498.22	0.0090	0.0069
Moon	83605-12-05 16:05 G	32257498.04	32257498.17	32257498.33	0.0090	0.0073 *
Moon	83606-12-07 21:51 G	32257865.22	32257865.41	32257865.66	0.0090	0.0043
Earth	83606-12-08 00:44 G	32257865.33	32257865.53	32257865.76	0.0090	0.0047 *
Earth	83607-12-10 12:29 G	32258232.78	32258233.02	32258233.28	0.0090	0.0025

Moon	83607-12-10 13:56 G	32258232.84	32258233.08	32258233.34	0.0090	0.0030	*
Earth	83608-12-12 00:29 G	32258600.26	32258600.52	32258600.78	0.0090	0.0003	
Moon	83608-12-12 00:29 G	32258600.27	32258600.52	32258600.77	0.0090	0.0002	*
Moon	83609-12-14 11:17 G	32258967.71	32258967.97	32258968.23	0.0090	0.0015	
Earth	83609-12-14 12:00 G	32258967.76	32258968.00	32258968.25	0.0090	0.0020	*
Earth	83610-12-16 23:17 G	32259335.26	32259335.47	32259335.72	0.0090	0.0042	
Moon	83610-12-17 01:27 G	32259335.37	32259335.56	32259335.79	0.0090	0.0047	*
Moon	83611-12-19 07:56 G	32259702.65	32259702.83	32259703.04	0.0090	0.0059	
Earth	83611-12-19 10:48 G	32259702.80	32259702.95	32259703.16	0.0090	0.0064	*
Earth	83612-12-20 22:48 G	32260070.39	32260070.45	32260070.54	0.0090	0.0085	
Moon	83612-12-21 02:10 G	32260070.59	32260070.59	32260070.61	0.0090	0.0090	
Mercury	83623-10-18 08:10 G	32264023.83	32264023.84	32264023.87	0.0090	0.0089	
Mercury	83624-01-14 11:03 G	32264111.89	32264111.96	32264112.06	0.0090	0.0079	
Mercury	83624-04-11 14:10 G	32264199.99	32264200.09	32264200.22	0.0090	0.0069	
Mercury	83624-07-08 17:03 G	32264288.10	32264288.21	32264288.37	0.0090	0.0059	
Mercury	83624-10-04 20:24 G	32264376.21	32264376.35	32264376.51	0.0090	0.0048	
Mercury	83624-12-31 23:32 G	32264464.32	32264464.48	32264464.64	0.0090	0.0038	
Mercury	83625-03-30 02:24 G	32264552.44	32264552.60	32264552.78	0.0090	0.0028	
Mercury	83625-06-26 05:32 G	32264640.56	32264640.73	32264640.91	0.0090	0.0018	
Mercury	83625-09-22 08:39 G	32264728.68	32264728.86	32264729.04	0.0090	0.0008	
Mercury	83625-12-19 11:32 G	32264816.80	32264816.98	32264817.16	0.0090	0.0003	
Mercury	83626-03-17 14:24 G	32264904.93	32264905.10	32264905.28	0.0090	0.0013	
Mercury	83626-06-13 17:17 G	32264993.06	32264993.22	32264993.40	0.0090	0.0023	
Mercury	83626-09-09 20:10 G	32265081.19	32265081.34	32265081.51	0.0090	0.0033	
Mercury	83626-12-06 23:03 G	32265169.32	32265169.46	32265169.63	0.0090	0.0043	
Mercury	83627-03-05 02:10 G	32265257.45	32265257.59	32265257.74	0.0090	0.0052	
Mercury	83627-06-01 05:03 G	32265345.59	32265345.71	32265345.84	0.0090	0.0062	
Mercury	83627-08-28 07:41 G	32265433.73	32265433.82	32265433.94	0.0090	0.0072	
Mercury	83627-11-24 10:20 G	32265521.88	32265521.93	32265522.02	0.0090	0.0082	
Mars	83638-07-29 14:10 G	32269421.81	32269422.09	32269422.39	0.0090	0.0033	

Venus	83669-02-07 08:10 G	32280572.78	32280572.84	32280572.94	0.0088	0.0083
Venus	83669-09-20 21:51 G	32280798.29	32280798.41	32280798.54	0.0088	0.0073
Venus	83670-05-04 10:48 G	32281023.81	32281023.95	32281024.11	0.0088	0.0064
Venus	83670-12-15 23:46 G	32281249.33	32281249.49	32281249.68	0.0088	0.0055
Venus	83671-07-29 12:58 G	32281474.87	32281475.04	32281475.25	0.0088	0.0045
Venus	83672-03-11 02:24 G	32281700.41	32281700.60	32281700.81	0.0088	0.0036
Venus	83672-10-22 15:36 G	32281925.95	32281926.15	32281926.37	0.0088	0.0026
Venus	83673-06-05 05:03 G	32282151.49	32282151.71	32282151.93	0.0088	0.0017
Venus	83674-01-16 18:15 G	32282377.04	32282377.26	32282377.48	0.0088	0.0007
Venus	83674-08-30 07:27 G	32282602.59	32282602.81	32282603.04	0.0088	0.0003
Venus	83675-04-12 20:39 G	32282828.15	32282828.36	32282828.59	0.0088	0.0012
Venus	83675-11-24 09:51 G	32283053.70	32283053.91	32283054.13	0.0088	0.0021
Venus	83676-07-06 23:17 G	32283279.26	32283279.47	32283279.68	0.0088	0.0031
Venus	83677-02-17 12:15 G	32283504.83	32283505.01	32283505.22	0.0088	0.0040
Venus	83677-10-01 01:41 G	32283730.39	32283730.57	32283730.76	0.0088	0.0049
Venus	83678-05-14 14:24 G	32283955.96	32283956.10	32283956.29	0.0088	0.0059
Venus	83678-12-26 03:51 G	32284181.54	32284181.66	32284181.82	0.0088	0.0068
Venus	83679-08-08 17:03 G	32284407.12	32284407.21	32284407.33	0.0088	0.0077
Venus	83680-03-21 06:29 G	32284632.74	32284632.77	32284632.82	0.0088	0.0086
Earth	83686-05-31 22:48 G	32286895.45	32286895.45	32286895.49	0.0088	0.0088
Earth	83687-06-03 10:05 G	32287262.78	32287262.92	32287263.11	0.0088	0.0067
Moon	83687-06-03 12:44 G	32287262.86	32287263.03	32287263.23	0.0088	0.0064 *
Moon	83688-06-04 20:53 G	32287630.16	32287630.37	32287630.58	0.0088	0.0048
Earth	83688-06-04 21:36 G	32287630.20	32287630.40	32287630.65	0.0088	0.0046 *
Moon	83689-06-07 08:53 G	32287997.62	32287997.87	32287998.14	0.0088	0.0023
Earth	83689-06-07 09:36 G	32287997.66	32287997.90	32287998.16	0.0088	0.0025 *
Earth	83690-06-09 21:22 G	32288365.13	32288365.39	32288365.65	0.0088	0.0004
Moon	83690-06-09 22:34 G	32288365.19	32288365.44	32288365.70	0.0088	0.0006 *
Moon	83691-06-12 06:00 G	32288732.51	32288732.75	32288733.03	0.0088	0.0021
Earth	83691-06-12 08:39 G	32288732.62	32288732.86	32288733.13	0.0088	0.0018 *

Earth	83692-06-13 20:10 G	32289100.12	32289100.34	32289100.59	0.0088	0.0039
Moon	83692-06-13 23:32 G	32289100.26	32289100.48	32289100.73	0.0088	0.0037 *
Moon	83693-06-16 03:51 G	32289467.51	32289467.66	32289467.88	0.0088	0.0063
Earth	83693-06-16 07:27 G	32289467.65	32289467.81	32289468.03	0.0088	0.0060 *
Earth	83694-06-18 18:58 G	32289835.22	32289835.29	32289835.42	0.0088	0.0081
Moon	83694-06-18 23:03 G	32289835.35	32289835.46	32289835.60	0.0088	0.0077 *
Mercury	83705-07-16 12:58 G	32293880.03	32293880.04	32293880.05	0.0088	0.0087
Mercury	83705-10-12 14:24 G	32293968.05	32293968.10	32293968.16	0.0088	0.0080
Mercury	83706-01-08 15:36 G	32294056.09	32294056.15	32294056.24	0.0088	0.0073
Mercury	83706-04-06 17:17 G	32294144.14	32294144.22	32294144.32	0.0088	0.0065
Mercury	83706-07-03 18:58 G	32294232.19	32294232.29	32294232.39	0.0088	0.0058
Mercury	83706-09-29 20:24 G	32294320.24	32294320.35	32294320.47	0.0088	0.0051
Mercury	83706-12-26 21:51 G	32294408.29	32294408.41	32294408.54	0.0088	0.0043
Mercury	83707-03-24 23:32 G	32294496.35	32294496.48	32294496.61	0.0088	0.0036
Mercury	83707-06-21 00:58 G	32294584.41	32294584.54	32294584.68	0.0088	0.0029
Mercury	83707-09-17 02:24 G	32294672.47	32294672.60	32294672.74	0.0088	0.0022
Mercury	83707-12-14 04:05 G	32294760.53	32294760.67	32294760.81	0.0088	0.0014
Mercury	83708-03-11 05:32 G	32294848.59	32294848.73	32294848.87	0.0088	0.0007
Mercury	83708-06-07 07:12 G	32294936.66	32294936.80	32294936.94	0.0088	0.0002
Mercury	83708-09-03 08:39 G	32295024.72	32295024.86	32295025.00	0.0088	0.0009
Mercury	83708-11-30 10:05 G	32295112.79	32295112.92	32295113.07	0.0088	0.0016
Mercury	83709-02-26 11:46 G	32295200.85	32295200.99	32295201.13	0.0088	0.0024
Mercury	83709-05-25 13:12 G	32295288.92	32295289.05	32295289.19	0.0088	0.0031
Mercury	83709-08-21 14:53 G	32295376.99	32295377.12	32295377.25	0.0088	0.0039
Mercury	83709-11-17 16:20 G	32295465.07	32295465.18	32295465.31	0.0088	0.0046
Mercury	83710-02-13 18:00 G	32295553.14	32295553.25	32295553.37	0.0088	0.0054
Mercury	83710-05-12 19:27 G	32295641.22	32295641.31	32295641.42	0.0088	0.0062
Mercury	83710-08-08 21:22 G	32295729.30	32295729.39	32295729.48	0.0088	0.0069
Mercury	83710-11-04 22:48 G	32295817.39	32295817.45	32295817.52	0.0088	0.0077
Mercury	83711-02-01 00:15 G	32295905.49	32295905.51	32295905.56	0.0088	0.0085



Mars	83722-05-25 16:05 G	32300036.88	32300037.17	32300037.48	0.0088	0.0028
Venus	83752-06-20 19:12 G	32311021.23	32311021.30	32311021.38	0.0089	0.0083
Venus	83753-02-01 07:56 G	32311246.72	32311246.83	32311246.96	0.0089	0.0074
Venus	83753-09-14 20:39 G	32311472.23	32311472.36	32311472.53	0.0089	0.0065
Venus	83754-04-28 09:51 G	32311697.74	32311697.91	32311698.08	0.0089	0.0055
Venus	83754-12-09 22:20 G	32311923.26	32311923.43	32311923.63	0.0089	0.0046
Venus	83755-07-23 11:32 G	32312148.78	32312148.98	32312149.18	0.0089	0.0036
Venus	83756-03-05 00:15 G	32312374.31	32312374.51	32312374.73	0.0089	0.0027
Venus	83756-10-16 13:12 G	32312599.84	32312600.05	32312600.26	0.0089	0.0017
Venus	83757-05-30 01:56 G	32312825.36	32312825.58	32312825.80	0.0089	0.0008
Venus	83758-01-10 14:39 G	32313050.89	32313051.11	32313051.33	0.0089	0.0002
Venus	83758-08-24 03:36 G	32313276.43	32313276.65	32313276.87	0.0089	0.0011
Venus	83759-04-06 16:05 G	32313501.97	32313502.17	32313502.39	0.0089	0.0021
Venus	83759-11-18 04:48 G	32313727.51	32313727.70	32313727.92	0.0089	0.0031
Venus	83760-06-30 17:17 G	32313953.05	32313953.22	32313953.44	0.0089	0.0041
Venus	83761-02-11 06:15 G	32314178.59	32314178.76	32314178.95	0.0089	0.0049
Venus	83761-09-24 19:27 G	32314404.15	32314404.31	32314404.47	0.0089	0.0059
Venus	83762-05-08 07:41 G	32314629.70	32314629.82	32314629.98	0.0089	0.0069
Venus	83762-12-19 20:39 G	32314855.27	32314855.36	32314855.48	0.0089	0.0078
Venus	83763-08-02 09:08 G	32315080.86	32315080.88	32315080.95	0.0089	0.0088
Moon	83769-12-05 16:20 G	32317398.07	32317398.18	32317398.32	0.0089	0.0078
Earth	83769-12-05 18:00 G	32317398.13	32317398.25	32317398.39	0.0089	0.0077 *
Earth	83770-12-08 05:32 G	32317765.55	32317765.73	32317765.95	0.0090	0.0055
Moon	83770-12-08 06:29 G	32317765.58	32317765.77	32317766.00	0.0090	0.0056 *
Earth	83771-12-10 17:32 G	32318133.00	32318133.23	32318133.48	0.0090	0.0034
Moon	83771-12-10 17:46 G	32318133.03	32318133.24	32318133.49	0.0090	0.0034 *
Moon	83772-12-12 03:36 G	32318500.39	32318500.65	32318500.91	0.0090	0.0011
Earth	83772-12-12 05:32 G	32318500.48	32318500.73	32318500.99	0.0090	0.0012 *
Earth	83773-12-14 17:03 G	32318867.96	32318868.21	32318868.47	0.0090	0.0011
Moon	83773-12-14 19:41 G	32318868.07	32318868.32	32318868.57	0.0090	0.0011 *

Moon	83774-12-17 01:12 G	32319235.32	32319235.55	32319235.80	0.0090	0.0032
Earth	83774-12-17 04:34 G	32319235.47	32319235.69	32319235.94	0.0090	0.0033 *
Earth	83775-12-19 16:34 G	32319602.99	32319603.19	32319603.39	0.0090	0.0054
Moon	83775-12-19 19:27 G	32319603.14	32319603.31	32319603.54	0.0090	0.0055 *
Moon	83776-12-21 00:44 G	32319970.41	32319970.53	32319970.68	0.0090	0.0075
Earth	83776-12-21 04:05 G	32319970.55	32319970.67	32319970.82	0.0090	0.0076 *
Mercury	83788-07-15 05:32 G	32324194.71	32324194.73	32324194.79	0.0090	0.0087
Mercury	83788-10-11 08:39 G	32324282.78	32324282.86	32324282.97	0.0090	0.0077
Mercury	83789-01-07 11:46 G	32324370.88	32324370.99	32324371.12	0.0090	0.0067
Mercury	83789-04-05 15:08 G	32324458.99	32324459.13	32324459.27	0.0090	0.0056
Mercury	83789-07-02 18:00 G	32324547.10	32324547.25	32324547.41	0.0090	0.0046
Mercury	83789-09-28 21:08 G	32324635.22	32324635.38	32324635.55	0.0090	0.0036
Mercury	83789-12-26 00:00 G	32324723.34	32324723.50	32324723.68	0.0090	0.0026
Mercury	83790-03-24 03:08 G	32324811.46	32324811.63	32324811.81	0.0090	0.0016
Mercury	83790-06-20 06:15 G	32324899.58	32324899.76	32324899.94	0.0090	0.0005
Mercury	83790-09-16 09:08 G	32324987.71	32324987.88	32324988.06	0.0090	0.0005
Mercury	83790-12-13 12:15 G	32325075.83	32325076.01	32325076.18	0.0090	0.0015
Mercury	83791-03-11 15:08 G	32325163.96	32325164.13	32325164.30	0.0090	0.0025
Mercury	83791-06-07 18:00 G	32325252.09	32325252.25	32325252.42	0.0090	0.0035
Mercury	83791-09-03 20:39 G	32325340.22	32325340.36	32325340.53	0.0090	0.0045
Mercury	83791-11-30 23:32 G	32325428.36	32325428.48	32325428.64	0.0090	0.0055
Mercury	83792-02-27 02:53 G	32325516.50	32325516.62	32325516.74	0.0090	0.0064
Mercury	83792-05-25 05:32 G	32325604.64	32325604.73	32325604.83	0.0090	0.0074
Mercury	83792-08-21 08:10 G	32325692.80	32325692.84	32325692.92	0.0090	0.0084
Mars	83804-02-07 17:17 G	32329878.96	32329879.22	32329879.50	0.0090	0.0047
Venus	83833-05-13 16:34 G	32340567.15	32340567.19	32340567.26	0.0088	0.0086
Venus	83833-12-25 05:46 G	32340792.64	32340792.74	32340792.86	0.0088	0.0077
Venus	83834-08-07 18:44 G	32341018.16	32341018.28	32341018.45	0.0088	0.0068
Venus	83835-03-21 08:24 G	32341243.69	32341243.85	32341244.02	0.0088	0.0058
Venus	83835-11-01 21:22 G	32341469.22	32341469.39	32341469.59	0.0088	0.0049

Venus	83836-06-14 10:34 G	32341694.75	32341694.94	32341695.15	0.0088	0.0039
Venus	83837-01-26 00:00 G	32341920.29	32341920.50	32341920.71	0.0088	0.0029
Venus	83837-09-08 12:58 G	32342145.84	32342146.04	32342146.27	0.0088	0.0021
Venus	83838-04-22 02:24 G	32342371.38	32342371.60	32342371.82	0.0088	0.0011
Venus	83838-12-03 15:36 G	32342596.93	32342597.15	32342597.37	0.0088	0.0001
Venus	83839-07-17 04:48 G	32342822.48	32342822.70	32342822.92	0.0088	0.0008
Venus	83840-02-27 18:00 G	32343048.04	32343048.25	32343048.48	0.0088	0.0018
Venus	83840-10-10 07:12 G	32343273.60	32343273.80	32343274.02	0.0088	0.0027
Venus	83841-05-23 20:10 G	32343499.16	32343499.34	32343499.56	0.0088	0.0037
Venus	83842-01-04 09:36 G	32343724.72	32343724.90	32343725.10	0.0088	0.0046
Venus	83842-08-17 23:03 G	32343950.29	32343950.46	32343950.63	0.0088	0.0055
Venus	83843-03-31 12:00 G	32344175.87	32344176.00	32344176.17	0.0088	0.0065
Venus	83843-11-12 01:27 G	32344401.45	32344401.56	32344401.69	0.0088	0.0074
Venus	83844-06-24 14:39 G	32344627.05	32344627.11	32344627.19	0.0088	0.0083
Moon	83851-06-04 16:34 G	32347163.05	32347163.19	32347163.34	0.0088	0.0070
Earth	83851-06-04 16:34 G	32347163.07	32347163.19	32347163.34	0.0088	0.0074 *
Moon	83852-06-06 03:08 G	32347530.45	32347530.63	32347530.86	0.0088	0.0058
Earth	83852-06-06 04:20 G	32347530.48	32347530.68	32347530.89	0.0088	0.0053 *
Earth	83853-06-08 15:22 G	32347897.92	32347898.14	32347898.40	0.0088	0.0033
Moon	83853-06-08 18:00 G	32347898.02	32347898.25	32347898.49	0.0088	0.0028 *
Moon	83854-06-11 00:15 G	32348265.26	32348265.51	32348265.78	0.0088	0.0016
Earth	83854-06-11 03:22 G	32348265.39	32348265.64	32348265.90	0.0088	0.0011 *
Earth	83855-06-13 14:53 G	32348632.87	32348633.12	32348633.38	0.0088	0.0010
Moon	83855-06-13 18:15 G	32348633.01	32348633.26	32348633.52	0.0088	0.0014 *
Moon	83856-06-14 22:48 G	32349000.21	32349000.45	32349000.71	0.0088	0.0026
Earth	83856-06-15 02:24 G	32349000.37	32349000.60	32349000.86	0.0088	0.0031 *
Earth	83857-06-17 13:41 G	32349367.88	32349368.07	32349368.31	0.0088	0.0052
Moon	83857-06-17 16:48 G	32349368.02	32349368.20	32349368.43	0.0088	0.0056 *
Moon	83858-06-19 22:34 G	32349735.31	32349735.44	32349735.62	0.0088	0.0069
Earth	83858-06-20 01:12 G	32349735.44	32349735.55	32349735.73	0.0088	0.0073 *

Mercury	83870-04-13 11:46 G	32354050.97	32354050.99	32354051.03	0.0088	0.0085
Mercury	83870-07-10 13:12 G	32354139.00	32354139.05	32354139.12	0.0088	0.0078
Mercury	83870-10-06 14:39 G	32354227.04	32354227.11	32354227.21	0.0088	0.0071
Mercury	83871-01-02 16:34 G	32354315.09	32354315.19	32354315.28	0.0088	0.0063
Mercury	83871-03-31 17:46 G	32354403.14	32354403.24	32354403.36	0.0088	0.0056
Mercury	83871-06-27 19:12 G	32354491.19	32354491.30	32354491.43	0.0088	0.0049
Mercury	83871-09-23 20:39 G	32354579.25	32354579.36	32354579.50	0.0088	0.0042
Mercury	83871-12-20 22:20 G	32354667.31	32354667.43	32354667.57	0.0088	0.0034
Mercury	83872-03-17 23:46 G	32354755.36	32354755.49	32354755.63	0.0088	0.0027
Mercury	83872-06-14 01:27 G	32354843.42	32354843.56	32354843.70	0.0088	0.0019
Mercury	83872-09-10 02:53 G	32354931.49	32354931.62	32354931.77	0.0088	0.0012
Mercury	83872-12-07 04:34 G	32355019.55	32355019.69	32355019.83	0.0088	0.0004
Mercury	83873-03-05 06:00 G	32355107.61	32355107.75	32355107.90	0.0088	0.0004
Mercury	83873-06-01 07:41 G	32355195.68	32355195.82	32355195.96	0.0088	0.0011
Mercury	83873-08-28 09:08 G	32355283.74	32355283.88	32355284.02	0.0088	0.0018
Mercury	83873-11-24 10:48 G	32355371.81	32355371.95	32355372.08	0.0088	0.0026
Mercury	83874-02-20 12:15 G	32355459.88	32355460.01	32355460.15	0.0088	0.0033
Mercury	83874-05-19 13:56 G	32355547.95	32355548.08	32355548.20	0.0088	0.0041
Mercury	83874-08-15 15:22 G	32355636.03	32355636.14	32355636.26	0.0088	0.0048
Mercury	83874-11-11 17:03 G	32355724.10	32355724.21	32355724.32	0.0088	0.0056
Mercury	83875-02-07 18:29 G	32355812.18	32355812.27	32355812.37	0.0088	0.0064
Mercury	83875-05-06 19:56 G	32355900.26	32355900.33	32355900.43	0.0088	0.0072
Mercury	83875-08-02 21:51 G	32355988.35	32355988.41	32355988.47	0.0088	0.0079
Mercury	83875-10-29 23:17 G	32356076.46	32356076.47	32356076.50	0.0088	0.0087
Mars	83886-01-08 02:10 G	32359799.31	32359799.59	32359799.91	0.0088	0.0027
Venus	83916-09-24 03:36 G	32371015.61	32371015.65	32371015.69	0.0089	0.0087
Venus	83917-05-07 16:05 G	32371241.08	32371241.17	32371241.28	0.0089	0.0078
Venus	83917-12-19 04:48 G	32371466.58	32371466.70	32371466.85	0.0089	0.0069
Venus	83918-08-01 18:00 G	32371692.09	32371692.25	32371692.42	0.0089	0.0059
Venus	83919-03-15 06:44 G	32371917.61	32371917.78	32371917.97	0.0089	0.0050

Venus	83919-10-26 19:41 G	32372143.13	32372143.32	32372143.52	0.0089	0.0040
Venus	83920-06-08 08:24 G	32372368.65	32372368.85	32372369.06	0.0089	0.0031
Venus	83921-01-19 21:22 G	32372594.18	32372594.39	32372594.60	0.0089	0.0021
Venus	83921-09-02 10:20 G	32372819.72	32372819.93	32372820.15	0.0089	0.0012
Venus	83922-04-15 23:17 G	32373045.25	32373045.47	32373045.69	0.0089	0.0002
Venus	83922-11-27 12:00 G	32373270.78	32373271.00	32373271.22	0.0089	0.0007
Venus	83923-07-11 00:29 G	32373496.32	32373496.52	32373496.75	0.0089	0.0018
Venus	83924-02-21 13:27 G	32373721.86	32373722.06	32373722.27	0.0089	0.0027
Venus	83924-10-04 02:10 G	32373947.40	32373947.59	32373947.80	0.0089	0.0036
Venus	83925-05-17 15:08 G	32374172.94	32374173.13	32374173.32	0.0089	0.0046
Venus	83925-12-29 03:22 G	32374398.49	32374398.64	32374398.83	0.0089	0.0056
Venus	83926-08-11 16:34 G	32374624.05	32374624.19	32374624.34	0.0089	0.0065
Venus	83927-03-25 05:03 G	32374849.61	32374849.71	32374849.85	0.0089	0.0074
Venus	83927-11-05 17:46 G	32375075.18	32375075.24	32375075.33	0.0089	0.0084
Moon	83933-12-06 22:20 G	32377298.33	32377298.43	32377298.55	0.0089	0.0081
Earth	83933-12-06 22:34 G	32377298.38	32377298.44	32377298.52	0.0089	0.0086 *
Earth	83934-12-09 10:34 G	32377665.77	32377665.94	32377666.12	0.0089	0.0064
Moon	83934-12-09 11:17 G	32377665.84	32377665.97	32377666.15	0.0089	0.0069 *
Moon	83935-12-11 19:56 G	32378033.11	32378033.33	32378033.59	0.0090	0.0038
Earth	83935-12-11 22:05 G	32378033.22	32378033.42	32378033.67	0.0090	0.0043 *
Earth	83936-12-13 10:05 G	32378400.68	32378400.92	32378401.18	0.0090	0.0021
Moon	83936-12-13 13:12 G	32378400.82	32378401.05	32378401.30	0.0090	0.0026 *
Moon	83937-12-15 18:29 G	32378768.01	32378768.27	32378768.53	0.0090	0.0006
Earth	83937-12-15 21:51 G	32378768.16	32378768.41	32378768.67	0.0090	0.0001 *
Earth	83938-12-18 09:36 G	32379135.65	32379135.90	32379136.14	0.0090	0.0023
Moon	83938-12-18 13:12 G	32379135.80	32379136.05	32379136.30	0.0090	0.0018 *
Moon	83939-12-20 18:00 G	32379503.06	32379503.25	32379503.47	0.0090	0.0050
Earth	83939-12-20 20:53 G	32379503.17	32379503.37	32379503.61	0.0090	0.0045 *
Earth	83940-12-22 08:10 G	32379870.70	32379870.84	32379871.04	0.0090	0.0067
Moon	83940-12-22 10:48 G	32379870.77	32379870.95	32379871.15	0.0090	0.0062 *

Earth	83941-12-24 19:56 G	32380238.30	32380238.33	32380238.40	0.0090	0.0088
Mercury	83953-04-13 03:08 G	32384365.58	32384365.63	32384365.69	0.0090	0.0085
Mercury	83953-07-10 06:00 G	32384453.67	32384453.75	32384453.86	0.0090	0.0075
Mercury	83953-10-06 09:08 G	32384541.77	32384541.88	32384542.02	0.0090	0.0065
Mercury	83954-01-02 12:15 G	32384629.88	32384630.01	32384630.16	0.0090	0.0055
Mercury	83954-03-31 15:36 G	32384717.99	32384718.15	32384718.30	0.0090	0.0044
Mercury	83954-06-27 18:29 G	32384806.11	32384806.27	32384806.44	0.0090	0.0034
Mercury	83954-09-23 21:36 G	32384894.23	32384894.40	32384894.57	0.0090	0.0024
Mercury	83954-12-21 00:29 G	32384982.35	32384982.52	32384982.70	0.0090	0.0014
Mercury	83955-03-19 03:36 G	32385070.48	32385070.65	32385070.83	0.0090	0.0004
Mercury	83955-06-15 06:44 G	32385158.60	32385158.78	32385158.96	0.0090	0.0007
Mercury	83955-09-11 09:36 G	32385246.73	32385246.90	32385247.08	0.0090	0.0017
Mercury	83955-12-08 12:29 G	32385334.86	32385335.02	32385335.19	0.0090	0.0027
Mercury	83956-03-05 15:22 G	32385422.99	32385423.14	32385423.31	0.0090	0.0037
Mercury	83956-06-01 18:15 G	32385511.12	32385511.26	32385511.42	0.0090	0.0047
Mercury	83956-08-28 21:08 G	32385599.26	32385599.38	32385599.53	0.0090	0.0057
Mercury	83956-11-25 00:15 G	32385687.40	32385687.51	32385687.63	0.0090	0.0066
Mercury	83957-02-21 02:53 G	32385775.54	32385775.62	32385775.73	0.0090	0.0076
Mercury	83957-05-20 05:46 G	32385863.71	32385863.74	32385863.80	0.0090	0.0086
Mars	83967-09-22 23:17 G	32389641.17	32389641.47	32389641.78	0.0090	0.0014
Venus	83998-03-29 13:41 G	32400787.00	32400787.07	32400787.19	0.0088	0.0081
Venus	83998-11-10 03:08 G	32401012.51	32401012.63	32401012.78	0.0088	0.0071
Venus	83999-06-23 16:20 G	32401238.04	32401238.18	32401238.35	0.0088	0.0062
Venus	84000-02-04 06:00 G	32401463.57	32401463.75	32401463.93	0.0088	0.0052
Venus	84000-09-16 18:58 G	32401689.10	32401689.29	32401689.49	0.0088	0.0043

# 85TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 85th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	84001-04-30 07:56	G	32401914.64	32401914.83	32401915.05	0.0088	0.0034	
Venus	84001-12-11 21:22	G	32402140.18	32402140.39	32402140.61	0.0088	0.0024	
Venus	84002-07-25 10:34	G	32402365.72	32402365.94	32402366.16	0.0088	0.0014	
Venus	84003-03-08 00:00	G	32402591.28	32402591.50	32402591.72	0.0088	0.0005	
Venus	84003-10-19 12:58	G	32402816.82	32402817.04	32402817.27	0.0088	0.0006	
Venus	84004-06-01 02:10	G	32403042.37	32403042.59	32403042.81	0.0088	0.0015	
Venus	84005-01-12 15:08	G	32403267.93	32403268.13	32403268.36	0.0088	0.0024	
Venus	84005-08-26 04:34	G	32403493.49	32403493.69	32403493.90	0.0088	0.0033	
Venus	84006-04-08 17:32	G	32403719.05	32403719.23	32403719.44	0.0088	0.0043	
Venus	84006-11-20 06:58	G	32403944.62	32403944.79	32403944.98	0.0088	0.0052	
Venus	84007-07-03 19:41	G	32404170.19	32404170.32	32404170.51	0.0088	0.0063	
Venus	84008-02-14 09:22	G	32404395.77	32404395.89	32404396.03	0.0088	0.0071	
Venus	84008-09-26 22:48	G	32404621.37	32404621.45	32404621.54	0.0088	0.0080	
Moon	84015-06-04 19:56	G	32407063.27	32407063.33	32407063.46	0.0088	0.0082	
Earth	84015-06-04 22:05	G	32407063.35	32407063.42	32407063.54	0.0088	0.0082	*
Earth	84016-06-06 09:36	G	32407430.73	32407430.90	32407431.10	0.0088	0.0061	
Moon	84016-06-06 12:00	G	32407430.83	32407431.00	32407431.19	0.0088	0.0060	*
Moon	84017-06-08 17:32	G	32407798.01	32407798.23	32407798.48	0.0088	0.0041	
Earth	84017-06-08 21:22	G	32407798.16	32407798.39	32407798.62	0.0088	0.0040	*
Earth	84018-06-11 08:24	G	32408165.61	32408165.85	32408166.12	0.0088	0.0020	
Moon	84018-06-11 12:15	G	32408165.76	32408166.01	32408166.27	0.0088	0.0019	*

Moon	84019-06-13 16:48 G	32408532.94	32408533.20	32408533.46	0.0088	0.0001
Earth	84019-06-13 20:10 G	32408533.08	32408533.34	32408533.61	0.0088	0.0002 *
Earth	84020-06-15 07:27 G	32408900.58	32408900.81	32408901.08	0.0088	0.0023
Moon	84020-06-15 10:34 G	32408900.70	32408900.94	32408901.21	0.0088	0.0024 *
Moon	84021-06-17 17:46 G	32409268.02	32409268.24	32409268.47	0.0088	0.0042
Earth	84021-06-17 19:41 G	32409268.09	32409268.32	32409268.54	0.0088	0.0043 *
Earth	84022-06-20 06:58 G	32409635.62	32409635.79	32409635.97	0.0088	0.0064
Moon	84022-06-20 07:56 G	32409635.67	32409635.83	32409636.02	0.0088	0.0066 *
Earth	84023-06-22 18:15 G	32410003.22	32410003.26	32410003.35	0.0088	0.0085
Moon	84023-06-22 18:44 G	32410003.23	32410003.28	32410003.38	0.0088	0.0084 *
Mercury	84035-01-09 10:48 G	32414221.92	32414221.95	32414222.00	0.0088	0.0083
Mercury	84035-04-07 12:15 G	32414309.95	32414310.01	32414310.09	0.0088	0.0075
Mercury	84035-07-04 13:56 G	32414398.00	32414398.08	32414398.17	0.0088	0.0068
Mercury	84035-09-30 15:22 G	32414486.05	32414486.14	32414486.24	0.0088	0.0061
Mercury	84035-12-27 16:48 G	32414574.10	32414574.20	32414574.32	0.0088	0.0054
Mercury	84036-03-24 18:15 G	32414662.15	32414662.26	32414662.39	0.0088	0.0046
Mercury	84036-06-20 19:56 G	32414750.21	32414750.33	32414750.46	0.0088	0.0039
Mercury	84036-09-16 21:22 G	32414838.26	32414838.39	32414838.53	0.0088	0.0031
Mercury	84036-12-13 23:03 G	32414926.32	32414926.46	32414926.59	0.0088	0.0024
Mercury	84037-03-12 00:29 G	32415014.38	32415014.52	32415014.66	0.0088	0.0017
Mercury	84037-06-08 01:56 G	32415102.44	32415102.58	32415102.73	0.0088	0.0010
Mercury	84037-09-04 03:36 G	32415190.51	32415190.65	32415190.79	0.0088	0.0002
Mercury	84037-12-01 05:03 G	32415278.57	32415278.71	32415278.85	0.0088	0.0006
Mercury	84038-02-27 06:29 G	32415366.64	32415366.77	32415366.92	0.0088	0.0014
Mercury	84038-05-26 08:10 G	32415454.70	32415454.84	32415454.98	0.0088	0.0021
Mercury	84038-08-22 09:36 G	32415542.77	32415542.90	32415543.04	0.0088	0.0028
Mercury	84038-11-18 11:17 G	32415630.84	32415630.97	32415631.10	0.0088	0.0036
Mercury	84039-02-14 12:44 G	32415718.91	32415719.03	32415719.16	0.0088	0.0043
Mercury	84039-05-13 14:24 G	32415806.99	32415807.10	32415807.22	0.0088	0.0051
Mercury	84039-08-09 15:51 G	32415895.06	32415895.16	32415895.27	0.0088	0.0059



Mercury	84039-11-05 17:32 G	32415983.14	32415983.23	32415983.33	0.0088	0.0066
Mercury	84040-02-01 18:58 G	32416071.23	32416071.29	32416071.38	0.0088	0.0074
Mercury	84040-04-29 20:24 G	32416159.32	32416159.35	32416159.42	0.0088	0.0082
Mars	84049-08-23 10:20 G	32419561.86	32419561.93	32419562.07	0.0088	0.0083
Mars	84051-07-19 05:46 G	32420256.50	32420256.74	32420257.02	0.0088	0.0050
Venus	84081-08-09 00:29 G	32431235.45	32431235.52	32431235.61	0.0089	0.0082
Venus	84082-03-22 12:58 G	32431460.94	32431461.04	32431461.19	0.0089	0.0073
Venus	84082-11-03 02:10 G	32431686.44	32431686.59	32431686.75	0.0089	0.0063
Venus	84083-06-16 14:39 G	32431911.95	32431912.11	32431912.30	0.0089	0.0054
Venus	84084-01-28 03:36 G	32432137.47	32432137.65	32432137.85	0.0089	0.0044
Venus	84084-09-09 16:20 G	32432363.00	32432363.18	32432363.40	0.0089	0.0035
Venus	84085-04-23 05:32 G	32432588.52	32432588.73	32432588.94	0.0089	0.0025
Venus	84085-12-04 18:15 G	32432814.05	32432814.26	32432814.48	0.0089	0.0016
Venus	84086-07-18 07:12 G	32433039.58	32433039.80	32433040.02	0.0089	0.0006
Venus	84087-02-28 19:56 G	32433265.11	32433265.33	32433265.55	0.0089	0.0004
Venus	84087-10-12 08:39 G	32433490.65	32433490.86	32433491.08	0.0089	0.0013
Venus	84088-05-24 21:22 G	32433716.19	32433716.39	32433716.61	0.0089	0.0023
Venus	84089-01-05 10:05 G	32433941.73	32433941.92	32433942.14	0.0089	0.0033
Venus	84089-08-18 22:48 G	32434167.28	32434167.45	32434167.66	0.0089	0.0043
Venus	84090-04-01 11:46 G	32434392.83	32434392.99	32434393.18	0.0089	0.0052
Venus	84090-11-13 00:15 G	32434618.37	32434618.51	32434618.69	0.0089	0.0061
Venus	84091-06-26 13:12 G	32434843.93	32434844.05	32434844.19	0.0089	0.0070
Venus	84092-02-07 02:10 G	32435069.50	32435069.59	32435069.69	0.0089	0.0080
Venus	84092-09-19 14:53 G	32435295.12	32435295.12	32435295.14	0.0089	0.0089
Moon	84098-12-08 11:17 G	32437565.86	32437565.97	32437566.14	0.0089	0.0076
Earth	84098-12-08 14:39 G	32437565.97	32437566.11	32437566.27	0.0089	0.0073 *
Earth	84099-12-11 02:24 G	32437933.41	32437933.60	32437933.83	0.0089	0.0052
Moon	84099-12-11 05:32 G	32437933.54	32437933.73	32437933.96	0.0089	0.0051 *
Moon	84100-12-13 10:34 G	32438300.72	32438300.94	32438301.19	0.0089	0.0032
Earth	84100-12-13 14:24 G	32438300.87	32438301.10	32438301.35	0.0089	0.0030 *

Earth	84101-12-16 02:24 G	32438668.34	32438668.60	32438668.85	0.0090	0.0008
Moon	84101-12-16 05:32 G	32438668.47	32438668.73	32438668.99	0.0090	0.0006 *
Moon	84102-12-18 11:17 G	32439035.73	32439035.97	32439036.22	0.0090	0.0013
Earth	84102-12-18 14:10 G	32439035.84	32439036.09	32439036.35	0.0090	0.0014 *
Earth	84103-12-21 01:27 G	32439403.34	32439403.56	32439403.81	0.0090	0.0036
Moon	84103-12-21 03:22 G	32439403.41	32439403.64	32439403.89	0.0090	0.0037 *
Moon	84104-12-22 13:12 G	32439770.86	32439771.05	32439771.24	0.0090	0.0056
Earth	84104-12-22 13:27 G	32439770.87	32439771.06	32439771.26	0.0090	0.0057 *
Moon	84105-12-25 00:15 G	32440138.41	32440138.51	32440138.65	0.0090	0.0079
Earth	84105-12-25 00:29 G	32440138.43	32440138.52	32440138.67	0.0090	0.0079 *
Mercury	84118-01-09 00:15 G	32444536.46	32444536.51	32444536.59	0.0090	0.0084
Mercury	84118-04-07 03:08 G	32444624.55	32444624.63	32444624.75	0.0090	0.0074
Mercury	84118-07-04 06:44 G	32444712.65	32444712.78	32444712.91	0.0090	0.0063
Mercury	84118-09-30 09:36 G	32444800.76	32444800.90	32444801.05	0.0090	0.0053
Mercury	84118-12-27 12:44 G	32444888.88	32444889.03	32444889.19	0.0090	0.0043
Mercury	84119-03-25 15:36 G	32444977.00	32444977.15	32444977.33	0.0090	0.0033
Mercury	84119-06-21 18:44 G	32445065.12	32445065.28	32445065.46	0.0090	0.0023
Mercury	84119-09-17 21:51 G	32445153.24	32445153.41	32445153.59	0.0090	0.0013
Mercury	84119-12-15 00:58 G	32445241.36	32445241.54	32445241.72	0.0090	0.0002
Mercury	84120-03-12 04:05 G	32445329.49	32445329.67	32445329.84	0.0090	0.0008
Mercury	84120-06-08 06:58 G	32445417.62	32445417.79	32445417.96	0.0090	0.0018
Mercury	84120-09-04 09:51 G	32445505.75	32445505.91	32445506.08	0.0090	0.0028
Mercury	84120-12-01 12:44 G	32445593.88	32445594.03	32445594.20	0.0090	0.0038
Mercury	84121-02-27 15:36 G	32445682.01	32445682.15	32445682.31	0.0090	0.0048
Mercury	84121-05-26 18:29 G	32445770.15	32445770.27	32445770.42	0.0090	0.0058
Mercury	84121-08-22 21:22 G	32445858.29	32445858.39	32445858.52	0.0090	0.0068
Mercury	84121-11-19 00:15 G	32445946.44	32445946.51	32445946.61	0.0090	0.0078
Mercury	84122-02-15 03:22 G	32446034.61	32446034.64	32446034.68	0.0090	0.0087
Mars	84131-05-08 06:44 G	32449403.62	32449403.78	32449403.97	0.0090	0.0074
Mars	84133-04-02 00:29 G	32450098.33	32450098.52	32450098.77	0.0090	0.0064

Venus	84162-07-01 20:53 G	32460781.33	32460781.37	32460781.47	0.0088	0.0085
Venus	84163-02-12 10:48 G	32461006.84	32461006.95	32461007.07	0.0088	0.0075
Venus	84163-09-25 23:46 G	32461232.36	32461232.49	32461232.66	0.0088	0.0066
Venus	84164-05-08 13:27 G	32461457.89	32461458.06	32461458.23	0.0088	0.0056
Venus	84164-12-20 02:24 G	32461683.42	32461683.60	32461683.80	0.0088	0.0046
Venus	84165-08-02 15:51 G	32461908.96	32461909.16	32461909.36	0.0088	0.0037
Venus	84166-03-16 05:03 G	32462134.51	32462134.71	32462134.93	0.0088	0.0027
Venus	84166-10-27 18:29 G	32462360.05	32462360.27	32462360.49	0.0088	0.0018
Venus	84167-06-10 07:27 G	32462585.60	32462585.81	32462586.04	0.0088	0.0009
Venus	84168-01-21 20:53 G	32462811.15	32462811.37	32462811.59	0.0088	0.0001
Venus	84168-09-03 09:51 G	32463036.70	32463036.91	32463037.14	0.0088	0.0012
Venus	84169-04-16 23:17 G	32463262.26	32463262.47	32463262.69	0.0088	0.0020
Venus	84169-11-28 12:15 G	32463487.81	32463488.01	32463488.23	0.0088	0.0030
Venus	84170-07-12 01:27 G	32463713.37	32463713.56	32463713.77	0.0088	0.0040
Venus	84171-02-22 14:39 G	32463938.94	32463939.11	32463939.31	0.0088	0.0049
Venus	84171-10-06 04:05 G	32464164.51	32464164.67	32464164.84	0.0088	0.0058
Venus	84172-05-18 16:48 G	32464390.08	32464390.20	32464390.37	0.0088	0.0068
Venus	84172-12-30 06:15 G	32464615.67	32464615.76	32464615.88	0.0088	0.0077
Venus	84173-08-12 19:41 G	32464841.29	32464841.32	32464841.37	0.0088	0.0086
Jupiter	84175-02-03 22:34 G	32465380.91	32465381.44	32465381.97	0.0088	0.0005
Moon	84180-06-06 12:00 G	32467330.84	32467331.00	32467331.20	0.0088	0.0064
Earth	84180-06-06 15:08 G	32467331.00	32467331.13	32467331.32	0.0088	0.0069 *
Earth	84181-06-09 02:53 G	32467698.42	32467698.62	32467698.85	0.0088	0.0048
Moon	84181-06-09 06:29 G	32467698.58	32467698.77	32467699.00	0.0088	0.0053 *
Moon	84182-06-11 11:17 G	32468065.73	32468065.97	32468066.23	0.0088	0.0023
Earth	84182-06-11 14:10 G	32468065.86	32468066.09	32468066.35	0.0088	0.0028 *
Earth	84183-06-14 01:41 G	32468433.32	32468433.57	32468433.84	0.0088	0.0007
Moon	84183-06-14 04:34 G	32468433.42	32468433.69	32468433.95	0.0088	0.0011 *
Moon	84184-06-15 11:46 G	32468800.75	32468800.99	32468801.24	0.0088	0.0019
Earth	84184-06-15 13:27 G	32468800.80	32468801.06	32468801.32	0.0088	0.0014 *

Moon	84185-06-18 00:15 G	32469168.27	32469168.51	32469168.78	0.0088	0.0031
Earth	84185-06-18 00:44 G	32469168.30	32469168.53	32469168.77	0.0088	0.0035 *
Earth	84186-06-20 12:00 G	32469535.82	32469536.00	32469536.22	0.0088	0.0056
Moon	84186-06-20 13:12 G	32469535.87	32469536.05	32469536.23	0.0088	0.0060 *
Moon	84187-06-22 21:08 G	32469903.25	32469903.38	32469903.56	0.0088	0.0072
Earth	84187-06-22 23:32 G	32469903.38	32469903.48	32469903.63	0.0088	0.0077 *
Mercury	84199-10-07 09:36 G	32474392.86	32474392.90	32474392.97	0.0088	0.0081
Mercury	84200-01-03 11:03 G	32474480.90	32474480.96	32474481.05	0.0088	0.0074
Mercury	84200-04-01 12:58 G	32474568.95	32474569.04	32474569.13	0.0088	0.0066
Mercury	84200-06-28 14:10 G	32474657.00	32474657.09	32474657.20	0.0088	0.0059
Mercury	84200-09-24 15:36 G	32474745.05	32474745.15	32474745.27	0.0088	0.0052
Mercury	84200-12-21 17:03 G	32474833.10	32474833.21	32474833.34	0.0088	0.0045
Mercury	84201-03-19 18:44 G	32474921.16	32474921.28	32474921.41	0.0088	0.0037
Mercury	84201-06-15 20:10 G	32475009.22	32475009.34	32475009.48	0.0088	0.0030
Mercury	84201-09-11 21:51 G	32475097.28	32475097.41	32475097.55	0.0088	0.0022
Mercury	84201-12-08 23:17 G	32475185.34	32475185.47	32475185.61	0.0088	0.0015
Mercury	84202-03-07 00:58 G	32475273.40	32475273.54	32475273.68	0.0088	0.0007
Mercury	84202-06-03 02:24 G	32475361.46	32475361.60	32475361.74	0.0088	0.0002
Mercury	84202-08-30 04:05 G	32475449.53	32475449.67	32475449.81	0.0088	0.0008
Mercury	84202-11-26 05:32 G	32475537.59	32475537.73	32475537.87	0.0088	0.0015
Mercury	84203-02-22 06:58 G	32475625.66	32475625.79	32475625.93	0.0088	0.0023
Mercury	84203-05-21 08:24 G	32475713.73	32475713.85	32475713.99	0.0088	0.0031
Mercury	84203-08-17 10:05 G	32475801.80	32475801.92	32475802.05	0.0088	0.0038
Mercury	84203-11-13 11:32 G	32475889.87	32475889.98	32475890.11	0.0088	0.0046
Mercury	84204-02-09 13:12 G	32475977.94	32475978.05	32475978.17	0.0088	0.0053
Mercury	84204-05-07 14:39 G	32476066.02	32476066.11	32476066.23	0.0088	0.0061
Mercury	84204-08-03 16:34 G	32476154.10	32476154.19	32476154.28	0.0088	0.0068
Mercury	84204-10-30 18:00 G	32476242.19	32476242.25	32476242.33	0.0088	0.0076
Mercury	84205-01-26 19:27 G	32476330.28	32476330.31	32476330.36	0.0088	0.0084
Mars	84215-03-04 15:51 G	32480018.84	32480019.16	32480019.48	0.0088	0.0005

Venus	84245-11-12 08:53 G	32491229.83	32491229.87	32491229.93	0.0089	0.0086
Venus	84246-06-25 21:22 G	32491455.31	32491455.39	32491455.52	0.0089	0.0077
Venus	84247-02-06 10:34 G	32491680.80	32491680.94	32491681.09	0.0089	0.0067
Venus	84247-09-19 23:03 G	32491906.32	32491906.46	32491906.65	0.0089	0.0058
Venus	84248-05-02 12:15 G	32492131.83	32492132.01	32492132.20	0.0089	0.0048
Venus	84248-12-14 00:44 G	32492357.35	32492357.53	32492357.74	0.0089	0.0039
Venus	84249-07-27 13:41 G	32492582.87	32492583.07	32492583.29	0.0089	0.0029
Venus	84250-03-10 02:24 G	32492808.40	32492808.60	32492808.83	0.0089	0.0020
Venus	84250-10-21 15:22 G	32493033.93	32493034.14	32493034.36	0.0089	0.0010
Venus	84251-06-04 04:20 G	32493259.46	32493259.68	32493259.90	0.0089	0.0001
Venus	84252-01-15 17:03 G	32493485.00	32493485.21	32493485.43	0.0089	0.0009
Venus	84252-08-28 05:46 G	32493710.54	32493710.74	32493710.97	0.0089	0.0020
Venus	84253-04-10 18:58 G	32493936.08	32493936.29	32493936.49	0.0089	0.0029
Venus	84253-11-22 07:27 G	32494161.62	32494161.81	32494162.01	0.0089	0.0038
Venus	84254-07-05 19:56 G	32494387.17	32494387.33	32494387.53	0.0089	0.0048
Venus	84255-02-16 08:53 G	32494612.71	32494612.87	32494613.05	0.0089	0.0057
Venus	84255-09-29 21:22 G	32494838.27	32494838.39	32494838.56	0.0089	0.0068
Venus	84256-05-12 10:20 G	32495063.84	32495063.93	32495064.06	0.0089	0.0077
Venus	84256-12-23 23:17 G	32495289.42	32495289.47	32495289.54	0.0089	0.0086
Earth	84262-12-09 18:29 G	32497466.18	32497466.27	32497466.38	0.0089	0.0082
Moon	84262-12-09 21:36 G	32497466.31	32497466.40	32497466.56	0.0089	0.0079 *
Moon	84263-12-12 02:53 G	32497833.46	32497833.62	32497833.81	0.0089	0.0065
Earth	84263-12-12 06:15 G	32497833.59	32497833.76	32497833.97	0.0089	0.0061 *
Earth	84264-12-13 18:29 G	32498201.04	32498201.27	32498201.50	0.0089	0.0039
Moon	84264-12-13 21:22 G	32498201.17	32498201.39	32498201.65	0.0089	0.0035 *
Moon	84265-12-16 04:20 G	32498568.46	32498568.68	32498568.94	0.0089	0.0022
Earth	84265-12-16 06:15 G	32498568.52	32498568.76	32498569.02	0.0089	0.0018 *
Earth	84266-12-18 18:15 G	32498936.01	32498936.26	32498936.52	0.0090	0.0005
Moon	84266-12-18 19:41 G	32498936.05	32498936.32	32498936.58	0.0090	0.0009 *
Earth	84267-12-21 05:46 G	32499303.51	32499303.74	32499304.00	0.0090	0.0027

Moon	84267-12-21 06:15 G	32499303.52	32499303.76	32499304.00	0.0090	0.0022 *
Moon	84268-12-22 15:36 G	32499670.95	32499671.15	32499671.38	0.0090	0.0052
Earth	84268-12-22 17:32 G	32499671.03	32499671.23	32499671.46	0.0090	0.0048 *
Earth	84269-12-25 04:48 G	32500038.57	32500038.70	32500038.89	0.0090	0.0070
Moon	84269-12-25 06:58 G	32500038.65	32500038.79	32500038.99	0.0090	0.0066 *
Mercury	84282-10-06 21:36 G	32504707.34	32504707.40	32504707.48	0.0090	0.0082
Mercury	84283-01-03 00:44 G	32504795.44	32504795.53	32504795.65	0.0090	0.0072
Mercury	84283-04-01 03:51 G	32504883.54	32504883.66	32504883.80	0.0090	0.0062
Mercury	84283-06-28 07:12 G	32504971.65	32504971.80	32504971.95	0.0090	0.0051
Mercury	84283-09-24 10:05 G	32505059.77	32505059.92	32505060.09	0.0090	0.0041
Mercury	84283-12-21 13:12 G	32505147.89	32505148.05	32505148.22	0.0090	0.0031
Mercury	84284-03-18 16:20 G	32505236.01	32505236.18	32505236.36	0.0090	0.0021
Mercury	84284-06-14 19:12 G	32505324.13	32505324.30	32505324.49	0.0090	0.0011
Mercury	84284-09-10 22:20 G	32505412.26	32505412.43	32505412.61	0.0090	0.0002
Mercury	84284-12-08 01:27 G	32505500.38	32505500.56	32505500.74	0.0090	0.0010
Mercury	84285-03-06 04:20 G	32505588.51	32505588.68	32505588.86	0.0090	0.0020
Mercury	84285-06-02 07:12 G	32505676.64	32505676.80	32505676.98	0.0090	0.0030
Mercury	84285-08-29 10:05 G	32505764.77	32505764.92	32505765.09	0.0090	0.0040
Mercury	84285-11-25 12:58 G	32505852.91	32505853.04	32505853.20	0.0090	0.0050
Mercury	84286-02-21 15:51 G	32505941.05	32505941.16	32505941.31	0.0090	0.0060
Mercury	84286-05-20 18:44 G	32506029.19	32506029.28	32506029.41	0.0090	0.0070
Mercury	84286-08-16 21:51 G	32506117.34	32506117.41	32506117.50	0.0090	0.0079
Mercury	84286-11-13 00:44 G	32506205.52	32506205.53	32506205.56	0.0090	0.0089
Mars	84296-11-15 08:53 G	32509860.56	32509860.87	32509861.18	0.0090	0.0003
Venus	84326-10-05 04:48 G	32520775.70	32520775.70	32520775.74	0.0089	0.0088
Venus	84327-05-18 18:00 G	32521001.17	32521001.25	32521001.37	0.0089	0.0079
Venus	84327-12-30 07:12 G	32521226.68	32521226.80	32521226.96	0.0088	0.0070
Venus	84328-08-11 20:53 G	32521452.21	32521452.37	32521452.54	0.0088	0.0060
Venus	84329-03-25 09:51 G	32521677.75	32521677.91	32521678.11	0.0088	0.0051
Venus	84329-11-05 23:17 G	32521903.29	32521903.47	32521903.68	0.0088	0.0041

Venus	84330-06-19 12:29 G	32522128.83	32522129.02	32522129.24	0.0088	0.0031
Venus	84331-01-31 01:56 G	32522354.37	32522354.58	32522354.80	0.0088	0.0022
Venus	84331-09-13 15:08 G	32522579.92	32522580.13	32522580.36	0.0088	0.0012
Venus	84332-04-26 04:34 G	32522805.47	32522805.69	32522805.91	0.0088	0.0002
Venus	84332-12-07 17:46 G	32523031.02	32523031.24	32523031.46	0.0088	0.0007
Venus	84333-07-21 06:44 G	32523256.57	32523256.78	32523257.01	0.0088	0.0017
Venus	84334-03-03 20:10 G	32523482.13	32523482.34	32523482.56	0.0088	0.0026
Venus	84334-10-15 09:08 G	32523707.69	32523707.88	32523708.10	0.0088	0.0036
Venus	84335-05-28 22:20 G	32523933.25	32523933.43	32523933.63	0.0088	0.0046
Venus	84336-01-09 11:17 G	32524158.82	32524158.97	32524159.16	0.0088	0.0055
Venus	84336-08-22 00:44 G	32524384.39	32524384.53	32524384.69	0.0088	0.0064
Venus	84337-04-04 13:41 G	32524609.98	32524610.07	32524610.22	0.0088	0.0074
Venus	84337-11-16 03:08 G	32524835.58	32524835.63	32524835.72	0.0088	0.0083
Earth	84344-06-07 20:39 G	32527231.25	32527231.36	32527231.50	0.0088	0.0076
Moon	84344-06-07 23:46 G	32527231.39	32527231.49	32527231.65	0.0088	0.0076 *
Moon	84345-06-10 05:03 G	32527598.53	32527598.71	32527598.92	0.0088	0.0056
Earth	84345-06-10 07:56 G	32527598.65	32527598.83	32527599.05	0.0088	0.0056 *
Earth	84346-06-12 19:41 G	32527966.09	32527966.32	32527966.56	0.0088	0.0035
Moon	84346-06-12 21:22 G	32527966.15	32527966.39	32527966.64	0.0088	0.0034 *
Moon	84347-06-15 06:29 G	32528333.53	32528333.77	32528334.02	0.0088	0.0015
Earth	84347-06-15 06:58 G	32528333.55	32528333.79	32528334.06	0.0088	0.0015 *
Moon	84348-06-16 18:15 G	32528701.00	32528701.26	32528701.53	0.0088	0.0007
Earth	84348-06-16 18:44 G	32528701.02	32528701.28	32528701.54	0.0088	0.0006 *
Earth	84349-06-19 06:00 G	32529068.51	32529068.75	32529069.00	0.0088	0.0027
Moon	84349-06-19 08:10 G	32529068.60	32529068.84	32529069.08	0.0088	0.0026 *
Moon	84350-06-21 14:39 G	32529435.90	32529436.11	32529436.35	0.0088	0.0048
Earth	84350-06-21 17:17 G	32529436.02	32529436.22	32529436.45	0.0088	0.0048 *
Earth	84351-06-24 05:17 G	32529803.56	32529803.72	32529803.88	0.0088	0.0068
Moon	84351-06-24 08:10 G	32529803.70	32529803.84	32529804.02	0.0088	0.0069 *
Mercury	84364-04-08 07:12 G	32534475.79	32534475.80	32534475.84	0.0088	0.0086

Mercury	84364-07-05 08:39 G	32534563.81	32534563.86	32534563.93	0.0088	0.0079
Mercury	84364-10-01 10:05 G	32534651.86	32534651.92	32534652.01	0.0088	0.0072
Mercury	84364-12-28 11:46 G	32534739.90	32534739.99	32534740.09	0.0088	0.0064
Mercury	84365-03-26 13:12 G	32534827.95	32534828.05	32534828.16	0.0088	0.0057
Mercury	84365-06-22 14:39 G	32534916.00	32534916.11	32534916.23	0.0088	0.0050
Mercury	84365-09-18 16:20 G	32535004.06	32535004.18	32535004.30	0.0088	0.0042
Mercury	84365-12-15 17:46 G	32535092.12	32535092.24	32535092.37	0.0088	0.0035
Mercury	84366-03-13 19:12 G	32535180.17	32535180.30	32535180.44	0.0088	0.0028
Mercury	84366-06-09 20:53 G	32535268.23	32535268.37	32535268.51	0.0088	0.0020
Mercury	84366-09-05 22:20 G	32535356.29	32535356.43	32535356.57	0.0088	0.0013
Mercury	84366-12-03 00:00 G	32535444.36	32535444.50	32535444.64	0.0088	0.0006
Mercury	84367-03-01 01:27 G	32535532.42	32535532.56	32535532.70	0.0088	0.0002
Mercury	84367-05-28 02:53 G	32535620.48	32535620.62	32535620.76	0.0088	0.0010
Mercury	84367-08-24 04:20 G	32535708.55	32535708.68	32535708.83	0.0088	0.0018
Mercury	84367-11-20 06:00 G	32535796.62	32535796.75	32535796.89	0.0088	0.0025
Mercury	84368-02-16 07:27 G	32535884.69	32535884.81	32535884.95	0.0088	0.0033
Mercury	84368-05-14 09:08 G	32535972.76	32535972.88	32535973.01	0.0088	0.0040
Mercury	84368-08-10 10:34 G	32536060.83	32536060.94	32536061.07	0.0088	0.0048
Mercury	84368-11-06 12:15 G	32536148.90	32536149.01	32536149.12	0.0088	0.0055
Mercury	84369-02-02 13:41 G	32536236.98	32536237.07	32536237.18	0.0088	0.0063
Mercury	84369-05-01 15:08 G	32536325.06	32536325.13	32536325.23	0.0088	0.0071
Mercury	84369-07-28 16:48 G	32536413.15	32536413.20	32536413.27	0.0088	0.0078
Mercury	84369-10-24 18:15 G	32536501.25	32536501.26	32536501.30	0.0088	0.0086
Mars	84378-10-17 22:05 G	32539781.22	32539781.42	32539781.68	0.0088	0.0061
Mars	84380-09-11 18:58 G	32540476.15	32540476.29	32540476.51	0.0088	0.0072
Venus	84410-09-28 06:00 G	32551449.68	32551449.75	32551449.86	0.0089	0.0081
Venus	84411-05-11 19:12 G	32551675.17	32551675.30	32551675.43	0.0089	0.0071
Venus	84411-12-23 07:41 G	32551900.68	32551900.82	32551900.99	0.0089	0.0062
Venus	84412-08-04 20:39 G	32552126.19	32552126.36	32552126.55	0.0089	0.0052
Venus	84413-03-18 09:22 G	32552351.71	32552351.89	32552352.09	0.0089	0.0043



Venus	84413-10-29 22:05 G	32552577.23	32552577.42	32552577.63	0.0089	0.0033
Venus	84414-06-12 10:48 G	32552802.75	32552802.95	32552803.17	0.0089	0.0024
Venus	84415-01-23 23:46 G	32553028.28	32553028.49	32553028.71	0.0089	0.0014
Venus	84415-09-06 12:44 G	32553253.81	32553254.03	32553254.25	0.0089	0.0004
Venus	84416-04-19 01:27 G	32553479.35	32553479.56	32553479.78	0.0089	0.0006
Venus	84416-11-30 14:10 G	32553704.88	32553705.09	32553705.31	0.0089	0.0015
Venus	84417-07-14 02:53 G	32553930.42	32553930.62	32553930.84	0.0089	0.0025
Venus	84418-02-24 15:51 G	32554155.96	32554156.16	32554156.36	0.0089	0.0034
Venus	84418-10-08 04:34 G	32554381.51	32554381.69	32554381.89	0.0089	0.0044
Venus	84419-05-21 17:32 G	32554607.06	32554607.23	32554607.41	0.0089	0.0053
Venus	84420-01-02 06:00 G	32554832.61	32554832.75	32554832.92	0.0089	0.0063
Venus	84420-08-14 19:12 G	32555058.18	32555058.30	32555058.43	0.0089	0.0073
Venus	84421-03-28 07:41 G	32555283.75	32555283.82	32555283.92	0.0089	0.0082
Moon	84426-12-09 20:10 G	32557366.30	32557366.34	32557366.42	0.0089	0.0087
Earth	84427-12-12 11:17 G	32557733.82	32557733.97	32557734.14	0.0089	0.0069
Moon	84427-12-12 13:41 G	32557733.93	32557734.07	32557734.25	0.0089	0.0072 *
Moon	84428-12-13 21:22 G	32558101.19	32558101.39	32558101.62	0.0089	0.0045
Earth	84428-12-13 23:03 G	32558101.26	32558101.46	32558101.69	0.0089	0.0048 *
Moon	84429-12-16 11:17 G	32558468.72	32558468.97	32558469.22	0.0089	0.0029
Earth	84429-12-16 11:17 G	32558468.73	32558468.97	32558469.22	0.0089	0.0026 *
Earth	84430-12-18 23:03 G	32558836.21	32558836.46	32558836.72	0.0089	0.0005
Moon	84430-12-19 00:00 G	32558836.25	32558836.50	32558836.75	0.0089	0.0002 *
Moon	84431-12-21 08:53 G	32559203.62	32559203.87	32559204.14	0.0089	0.0015
Earth	84431-12-21 10:48 G	32559203.71	32559203.95	32559204.21	0.0089	0.0018 *
Earth	84432-12-22 22:34 G	32559571.22	32559571.44	32559571.68	0.0090	0.0039
Moon	84432-12-23 01:56 G	32559571.36	32559571.58	32559571.80	0.0090	0.0042 *
Moon	84433-12-25 06:58 G	32559938.61	32559938.79	32559939.00	0.0090	0.0058
Earth	84433-12-25 10:05 G	32559938.75	32559938.92	32559939.13	0.0090	0.0061 *
Earth	84434-12-27 21:36 G	32560306.32	32560306.40	32560306.52	0.0090	0.0082
Moon	84434-12-28 01:12 G	32560306.49	32560306.55	32560306.66	0.0090	0.0084 *

Mercury	84447-07-04 18:44 G	32564878.22	32564878.28	32564878.38	0.0090	0.0081
Mercury	84447-09-30 22:05 G	32564966.32	32564966.42	32564966.54	0.0090	0.0070
Mercury	84447-12-28 01:12 G	32565054.43	32565054.55	32565054.69	0.0090	0.0060
Mercury	84448-03-25 04:20 G	32565142.54	32565142.68	32565142.84	0.0090	0.0050
Mercury	84448-06-21 07:41 G	32565230.66	32565230.82	32565230.98	0.0090	0.0039
Mercury	84448-09-17 10:34 G	32565318.78	32565318.94	32565319.12	0.0090	0.0029
Mercury	84448-12-14 13:41 G	32565406.90	32565407.07	32565407.25	0.0090	0.0019
Mercury	84449-03-12 16:48 G	32565495.02	32565495.20	32565495.38	0.0090	0.0009
Mercury	84449-06-08 19:41 G	32565583.15	32565583.32	32565583.50	0.0090	0.0003
Mercury	84449-09-04 22:48 G	32565671.27	32565671.45	32565671.63	0.0090	0.0011
Mercury	84449-12-02 01:41 G	32565759.40	32565759.57	32565759.75	0.0090	0.0022
Mercury	84450-02-28 04:34 G	32565847.53	32565847.69	32565847.87	0.0090	0.0032
Mercury	84450-05-27 07:27 G	32565935.67	32565935.81	32565935.98	0.0090	0.0042
Mercury	84450-08-23 10:20 G	32566023.80	32566023.93	32566024.09	0.0090	0.0052
Mercury	84450-11-19 13:41 G	32566111.94	32566112.07	32566112.20	0.0090	0.0061
Mercury	84451-02-15 16:34 G	32566200.09	32566200.19	32566200.30	0.0090	0.0071
Mercury	84451-05-14 19:12 G	32566288.24	32566288.30	32566288.39	0.0090	0.0081
Mars	84460-06-30 17:17 G	32569623.00	32569623.22	32569623.48	0.0090	0.0056
Mars	84462-05-26 11:03 G	32570317.82	32570317.96	32570318.09	0.0090	0.0080
Venus	84491-08-20 01:41 G	32580995.51	32580995.57	32580995.66	0.0089	0.0083
Venus	84492-04-01 14:39 G	32581221.01	32581221.11	32581221.26	0.0089	0.0074
Venus	84492-11-13 04:20 G	32581446.53	32581446.68	32581446.84	0.0089	0.0064
Venus	84493-06-26 17:17 G	32581672.06	32581672.22	32581672.41	0.0088	0.0055
Venus	84494-02-07 06:58 G	32581897.61	32581897.79	32581897.99	0.0088	0.0045
Venus	84494-09-20 20:10 G	32582123.15	32582123.34	32582123.55	0.0088	0.0035
Venus	84495-05-04 09:22 G	32582348.69	32582348.89	32582349.12	0.0088	0.0026
Venus	84495-12-15 22:48 G	32582574.24	32582574.45	32582574.67	0.0088	0.0016
Venus	84496-07-28 12:15 G	32582799.79	32582800.01	32582800.23	0.0088	0.0006
Venus	84497-03-11 01:41 G	32583025.35	32583025.57	32583025.79	0.0088	0.0004
Venus	84497-10-22 14:39 G	32583250.90	32583251.11	32583251.34	0.0088	0.0014

Venus	84498-06-05 04:05 G	32583476.45	32583476.67	32583476.88	0.0088	0.0023
Venus	84499-01-16 17:03 G	32583702.01	32583702.21	32583702.43	0.0088	0.0033
Venus	84499-08-30 06:00 G	32583927.58	32583927.75	32583927.97	0.0088	0.0043
Venus	84500-04-12 19:41 G	32584153.15	32584153.32	32584153.51	0.0088	0.0052
Venus	84500-11-24 08:39 G	32584378.72	32584378.86	32584379.04	0.0088	0.0061
Venus	84501-07-07 21:51 G	32584604.29	32584604.41	32584604.56	0.0088	0.0071
Venus	84502-02-18 10:48 G	32584829.89	32584829.95	32584830.07	0.0088	0.0081
Earth	84508-06-08 01:41 G	32587131.52	32587131.57	32587131.68	0.0088	0.0084
Earth	84509-06-10 13:41 G	32587498.90	32587499.07	32587499.25	0.0088	0.0063
Moon	84509-06-10 14:53 G	32587498.95	32587499.12	32587499.34	0.0088	0.0059 *
Earth	84510-06-13 00:44 G	32587866.33	32587866.53	32587866.78	0.0088	0.0043
Moon	84510-06-13 01:12 G	32587866.35	32587866.55	32587866.77	0.0088	0.0047 *
Moon	84511-06-15 11:17 G	32588233.71	32588233.97	32588234.24	0.0088	0.0018
Earth	84511-06-15 12:44 G	32588233.78	32588234.03	32588234.28	0.0088	0.0022 *
Earth	84512-06-17 00:15 G	32588601.25	32588601.51	32588601.77	0.0088	0.0002
Moon	84512-06-17 02:10 G	32588601.34	32588601.59	32588601.84	0.0088	0.0006 *
Moon	84513-06-19 07:56 G	32588968.59	32588968.83	32588969.09	0.0088	0.0024
Earth	84513-06-19 11:32 G	32588968.73	32588968.98	32588969.24	0.0088	0.0019 *
Earth	84514-06-21 22:34 G	32589336.23	32589336.44	32589336.69	0.0088	0.0040
Moon	84514-06-22 02:24 G	32589336.37	32589336.60	32589336.84	0.0088	0.0035 *
Moon	84515-06-24 06:29 G	32589703.62	32589703.77	32589703.96	0.0088	0.0065
Earth	84515-06-24 10:20 G	32589703.75	32589703.93	32589704.13	0.0088	0.0060 *
Earth	84516-06-25 21:22 G	32590071.32	32590071.39	32590071.52	0.0088	0.0081
Moon	84516-06-26 00:29 G	32590071.42	32590071.52	32590071.68	0.0088	0.0076 *
Mercury	84529-01-04 06:15 G	32594646.73	32594646.76	32594646.81	0.0088	0.0084
Mercury	84529-04-02 07:41 G	32594734.77	32594734.82	32594734.90	0.0088	0.0077
Mercury	84529-06-29 09:22 G	32594822.81	32594822.89	32594822.98	0.0088	0.0069
Mercury	84529-09-25 10:48 G	32594910.86	32594910.95	32594911.05	0.0088	0.0062
Mercury	84529-12-22 12:15 G	32594998.91	32594999.01	32594999.13	0.0088	0.0055
Mercury	84530-03-20 13:41 G	32595086.96	32595087.07	32595087.20	0.0088	0.0047

Mercury	84530-06-16 15:22 G	32595175.02	32595175.14	32595175.26	0.0088	0.0040
Mercury	84530-09-12 16:48 G	32595263.07	32595263.20	32595263.33	0.0088	0.0032
Mercury	84530-12-09 18:15 G	32595351.13	32595351.26	32595351.40	0.0088	0.0025
Mercury	84531-03-07 19:56 G	32595439.19	32595439.33	32595439.47	0.0088	0.0018
Mercury	84531-06-03 21:22 G	32595527.25	32595527.39	32595527.53	0.0088	0.0010
Mercury	84531-08-30 22:48 G	32595615.31	32595615.45	32595615.60	0.0088	0.0004
Mercury	84531-11-27 00:29 G	32595703.38	32595703.52	32595703.66	0.0088	0.0005
Mercury	84532-02-23 01:56 G	32595791.44	32595791.58	32595791.72	0.0088	0.0012
Mercury	84532-05-21 03:22 G	32595879.51	32595879.64	32595879.78	0.0088	0.0020
Mercury	84532-08-17 05:03 G	32595967.58	32595967.71	32595967.85	0.0088	0.0027
Mercury	84532-11-13 06:29 G	32596055.65	32596055.77	32596055.91	0.0088	0.0035
Mercury	84533-02-09 07:56 G	32596143.72	32596143.83	32596143.96	0.0088	0.0043
Mercury	84533-05-08 09:36 G	32596231.79	32596231.90	32596232.02	0.0088	0.0050
Mercury	84533-08-04 11:03 G	32596319.86	32596319.96	32596320.08	0.0088	0.0058
Mercury	84533-10-31 12:44 G	32596407.94	32596408.03	32596408.13	0.0088	0.0065
Mercury	84534-01-27 14:10 G	32596496.02	32596496.09	32596496.18	0.0088	0.0073
Mercury	84534-04-25 16:05 G	32596584.11	32596584.17	32596584.22	0.0088	0.0080
Mars	84544-04-27 05:03 G	32600238.40	32600238.71	32600239.03	0.0088	0.0017
Venus	84574-12-31 15:36 G	32611444.09	32611444.15	32611444.22	0.0089	0.0084
Venus	84575-08-14 04:20 G	32611669.58	32611669.68	32611669.81	0.0089	0.0075
Venus	84576-03-26 16:48 G	32611895.08	32611895.20	32611895.37	0.0089	0.0066
Venus	84576-11-07 05:46 G	32612120.58	32612120.74	32612120.92	0.0089	0.0056
Venus	84577-06-20 18:44 G	32612346.09	32612346.28	32612346.47	0.0089	0.0046
Venus	84578-02-01 07:12 G	32612571.61	32612571.80	32612572.01	0.0089	0.0037
Venus	84578-09-14 20:10 G	32612797.14	32612797.34	32612797.55	0.0089	0.0027
Venus	84579-04-28 08:53 G	32613022.66	32613022.87	32613023.09	0.0089	0.0018
Venus	84579-12-09 21:36 G	32613248.19	32613248.40	32613248.62	0.0089	0.0008
Venus	84580-07-22 10:34 G	32613473.72	32613473.94	32613474.16	0.0089	0.0002
Venus	84581-03-04 23:17 G	32613699.25	32613699.47	32613699.69	0.0089	0.0011
Venus	84581-10-16 12:00 G	32613924.79	32613925.00	32613925.21	0.0089	0.0021

Venus	84582-05-30 00:29 G	32614150.33	32614150.52	32614150.74	0.0089	0.0031
Venus	84583-01-10 13:27 G	32614375.87	32614376.06	32614376.26	0.0089	0.0040
Venus	84583-08-24 02:10 G	32614601.42	32614601.59	32614601.78	0.0089	0.0050
Venus	84584-04-05 14:39 G	32614826.98	32614827.11	32614827.30	0.0089	0.0061
Venus	84584-11-17 03:36 G	32615052.53	32615052.65	32615052.80	0.0089	0.0070
Venus	84585-06-30 16:05 G	32615278.10	32615278.17	32615278.30	0.0089	0.0080
Venus	84586-02-11 05:03 G	32615503.70	32615503.71	32615503.76	0.0089	0.0089
Moon	84591-12-12 15:36 G	32617634.04	32617634.15	32617634.30	0.0089	0.0075
Earth	84591-12-12 16:05 G	32617634.07	32617634.17	32617634.32	0.0089	0.0077 *
Earth	84592-12-14 04:20 G	32618001.49	32618001.68	32618001.89	0.0089	0.0056
Moon	84592-12-14 04:20 G	32618001.49	32618001.68	32618001.88	0.0089	0.0059 *
Earth	84593-12-16 16:05 G	32618368.95	32618369.17	32618369.42	0.0089	0.0035
Moon	84593-12-16 17:46 G	32618369.02	32618369.24	32618369.49	0.0089	0.0032 *
Moon	84594-12-19 01:12 G	32618736.30	32618736.55	32618736.82	0.0089	0.0016
Earth	84594-12-19 04:05 G	32618736.42	32618736.67	32618736.92	0.0089	0.0013 *
Earth	84595-12-21 15:51 G	32619103.91	32619104.16	32619104.42	0.0089	0.0009
Moon	84595-12-21 18:58 G	32619104.04	32619104.29	32619104.54	0.0089	0.0012 *
Moon	84596-12-23 00:00 G	32619471.26	32619471.50	32619471.75	0.0089	0.0027
Earth	84596-12-23 03:36 G	32619471.42	32619471.65	32619471.90	0.0089	0.0030 *
Earth	84597-12-25 15:22 G	32619838.94	32619839.14	32619839.36	0.0089	0.0052
Moon	84597-12-25 18:15 G	32619839.09	32619839.26	32619839.49	0.0089	0.0056 *
Moon	84598-12-28 00:29 G	32620206.36	32620206.52	32620206.68	0.0090	0.0069
Earth	84598-12-28 03:22 G	32620206.50	32620206.64	32620206.79	0.0090	0.0073 *
Mercury	84612-01-04 13:12 G	32624961.04	32624961.05	32624961.09	0.0090	0.0089
Mercury	84612-04-01 16:34 G	32625049.11	32625049.19	32625049.29	0.0090	0.0078
Mercury	84612-06-28 19:41 G	32625137.21	32625137.32	32625137.45	0.0090	0.0068
Mercury	84612-09-24 22:48 G	32625225.32	32625225.45	32625225.60	0.0090	0.0058
Mercury	84612-12-22 02:10 G	32625313.44	32625313.59	32625313.74	0.0090	0.0047
Mercury	84613-03-20 05:03 G	32625401.56	32625401.71	32625401.88	0.0090	0.0037
Mercury	84613-06-16 08:10 G	32625489.68	32625489.84	32625490.02	0.0090	0.0027

Mercury	84613-09-12 11:17 G	32625577.80	32625577.97	32625578.15	0.0090	0.0017
Mercury	84613-12-09 14:24 G	32625665.92	32625666.10	32625666.28	0.0090	0.0006
Mercury	84614-03-07 17:32 G	32625754.05	32625754.23	32625754.41	0.0090	0.0004
Mercury	84614-06-03 20:24 G	32625842.18	32625842.35	32625842.53	0.0090	0.0014
Mercury	84614-08-30 23:32 G	32625930.31	32625930.48	32625930.65	0.0090	0.0024
Mercury	84614-11-27 02:24 G	32626018.44	32626018.60	32626018.77	0.0090	0.0034
Mercury	84615-02-23 05:17 G	32626106.57	32626106.72	32626106.88	0.0090	0.0044
Mercury	84615-05-22 08:10 G	32626194.71	32626194.84	32626194.99	0.0090	0.0054
Mercury	84615-08-18 11:03 G	32626282.85	32626282.96	32626283.10	0.0090	0.0064
Mercury	84615-11-14 13:56 G	32626371.00	32626371.08	32626371.20	0.0090	0.0074
Mercury	84616-02-10 16:48 G	32626459.16	32626459.20	32626459.28	0.0090	0.0084
Mars	84626-01-09 19:41 G	32630080.04	32630080.32	32630080.64	0.0090	0.0022
Venus	84655-11-23 09:22 G	32640989.87	32640989.89	32640989.95	0.0089	0.0087
Venus	84656-07-05 22:20 G	32641215.35	32641215.43	32641215.56	0.0089	0.0078
Venus	84657-02-16 12:00 G	32641440.87	32641441.00	32641441.15	0.0089	0.0068
Venus	84657-09-30 00:58 G	32641666.40	32641666.54	32641666.73	0.0089	0.0059
Venus	84658-05-13 14:24 G	32641891.93	32641892.10	32641892.30	0.0089	0.0049
Venus	84658-12-25 03:51 G	32642117.46	32642117.66	32642117.86	0.0088	0.0039
Venus	84659-08-07 17:03 G	32642343.01	32642343.21	32642343.43	0.0088	0.0029
Venus	84660-03-20 06:29 G	32642568.56	32642568.77	32642568.99	0.0088	0.0020
Venus	84660-10-31 19:41 G	32642794.11	32642794.32	32642794.55	0.0088	0.0010
Venus	84661-06-14 09:08 G	32643019.66	32643019.88	32643020.10	0.0088	0.0000
Venus	84662-01-25 22:20 G	32643245.21	32643245.43	32643245.66	0.0088	0.0010
Venus	84662-09-08 11:32 G	32643470.77	32643470.98	32643471.21	0.0088	0.0019
Venus	84663-04-22 00:58 G	32643696.33	32643696.54	32643696.75	0.0088	0.0029
Venus	84663-12-03 14:10 G	32643921.90	32643922.09	32643922.30	0.0088	0.0038
Venus	84664-07-16 03:08 G	32644147.46	32644147.63	32644147.83	0.0088	0.0048
Venus	84665-02-26 16:48 G	32644373.04	32644373.20	32644373.37	0.0088	0.0058
Venus	84665-10-10 05:46 G	32644598.61	32644598.74	32644598.90	0.0088	0.0067
Venus	84666-05-23 19:12 G	32644824.20	32644824.30	32644824.41	0.0088	0.0077

Venus	84667-01-04 07:56 G	32645049.81	32645049.83	32645049.90	0.0088	0.0086
Earth	84673-06-10 18:44 G	32647399.15	32647399.28	32647399.46	0.0088	0.0071
Moon	84673-06-10 19:12 G	32647399.17	32647399.30	32647399.47	0.0088	0.0069 *
Moon	84674-06-13 04:20 G	32647766.50	32647766.68	32647766.92	0.0088	0.0053
Earth	84674-06-13 06:44 G	32647766.58	32647766.78	32647767.00	0.0088	0.0050 *
Earth	84675-06-15 18:15 G	32648134.03	32648134.26	32648134.52	0.0088	0.0030
Moon	84675-06-15 21:22 G	32648134.15	32648134.39	32648134.64	0.0088	0.0027 *
Moon	84676-06-17 02:39 G	32648501.35	32648501.61	32648501.87	0.0088	0.0011
Earth	84676-06-17 06:00 G	32648501.49	32648501.75	32648502.01	0.0088	0.0009 *
Earth	84677-06-19 17:17 G	32648868.97	32648869.22	32648869.49	0.0088	0.0012
Moon	84677-06-19 21:08 G	32648869.13	32648869.38	32648869.65	0.0088	0.0014 *
Moon	84678-06-22 01:41 G	32649236.34	32649236.57	32649236.82	0.0088	0.0030
Earth	84678-06-22 05:03 G	32649236.47	32649236.71	32649236.96	0.0088	0.0032 *
Earth	84679-06-24 15:51 G	32649603.98	32649604.16	32649604.39	0.0088	0.0053
Moon	84679-06-24 18:44 G	32649604.10	32649604.28	32649604.52	0.0088	0.0054 *
Moon	84680-06-26 01:41 G	32649971.45	32649971.57	32649971.74	0.0088	0.0072
Earth	84680-06-26 03:36 G	32649971.53	32649971.65	32649971.81	0.0088	0.0073 *
Mercury	84693-10-02 05:32 G	32654817.69	32654817.73	32654817.79	0.0088	0.0081
Mercury	84693-12-29 06:58 G	32654905.72	32654905.79	32654905.87	0.0088	0.0074
Mercury	84694-03-27 08:24 G	32654993.77	32654993.85	32654993.95	0.0088	0.0067
Mercury	84694-06-23 09:51 G	32655081.82	32655081.91	32655082.02	0.0088	0.0059
Mercury	84694-09-19 11:32 G	32655169.87	32655169.98	32655170.09	0.0088	0.0052
Mercury	84694-12-16 12:58 G	32655257.92	32655258.04	32655258.16	0.0088	0.0045
Mercury	84695-03-14 14:24 G	32655345.98	32655346.10	32655346.23	0.0088	0.0037
Mercury	84695-06-10 15:51 G	32655434.03	32655434.16	32655434.30	0.0088	0.0030
Mercury	84695-09-06 17:17 G	32655522.09	32655522.22	32655522.36	0.0088	0.0023
Mercury	84695-12-03 18:58 G	32655610.15	32655610.29	32655610.43	0.0088	0.0015
Mercury	84696-02-29 20:24 G	32655698.21	32655698.35	32655698.49	0.0088	0.0008
Mercury	84696-05-27 21:51 G	32655786.27	32655786.41	32655786.56	0.0088	0.0003
Mercury	84696-08-23 23:32 G	32655874.34	32655874.48	32655874.62	0.0088	0.0007

Mercury	84696-11-20 00:58 G	32655962.40	32655962.54	32655962.68	0.0088	0.0014
Mercury	84697-02-16 02:24 G	32656050.47	32656050.60	32656050.74	0.0088	0.0022
Mercury	84697-05-15 03:51 G	32656138.54	32656138.66	32656138.80	0.0088	0.0030
Mercury	84697-08-11 05:32 G	32656226.61	32656226.73	32656226.86	0.0088	0.0037
Mercury	84697-11-07 06:58 G	32656314.68	32656314.79	32656314.92	0.0088	0.0045
Mercury	84698-02-03 08:39 G	32656402.75	32656402.86	32656402.98	0.0088	0.0052
Mercury	84698-05-02 10:05 G	32656490.82	32656490.92	32656491.03	0.0088	0.0060
Mercury	84698-07-29 11:32 G	32656578.90	32656578.98	32656579.08	0.0088	0.0068
Mercury	84698-10-25 13:12 G	32656666.99	32656667.05	32656667.13	0.0088	0.0075
Mercury	84699-01-21 14:39 G	32656755.08	32656755.11	32656755.17	0.0088	0.0083
Mars	84707-12-12 12:29 G	32660000.75	32660001.02	32660001.33	0.0088	0.0038
Venus	84739-04-06 00:44 G	32671438.52	32671438.53	32671438.57	0.0089	0.0088
Venus	84739-11-17 13:27 G	32671663.98	32671664.06	32671664.18	0.0089	0.0079
Venus	84740-06-30 02:24 G	32671889.47	32671889.60	32671889.75	0.0089	0.0069
Venus	84741-02-10 14:53 G	32672114.98	32672115.12	32672115.30	0.0089	0.0060
Venus	84741-09-24 04:05 G	32672340.50	32672340.67	32672340.86	0.0089	0.0050
Venus	84742-05-07 17:03 G	32672566.01	32672566.21	32672566.40	0.0089	0.0040
Venus	84742-12-19 05:32 G	32672791.53	32672791.73	32672791.94	0.0089	0.0031
Venus	84743-08-01 18:29 G	32673017.06	32673017.27	32673017.48	0.0089	0.0021
Venus	84744-03-14 07:12 G	32673242.59	32673242.80	32673243.02	0.0089	0.0011
Venus	84744-10-25 19:56 G	32673468.12	32673468.33	32673468.55	0.0089	0.0002
Venus	84745-06-08 08:39 G	32673693.65	32673693.86	32673694.08	0.0089	0.0008
Venus	84746-01-19 21:22 G	32673919.18	32673919.39	32673919.61	0.0089	0.0018
Venus	84746-09-02 10:20 G	32674144.72	32674144.93	32674145.14	0.0089	0.0027
Venus	84747-04-15 22:48 G	32674370.27	32674370.45	32674370.66	0.0089	0.0037
Venus	84747-11-27 11:32 G	32674595.81	32674595.98	32674596.18	0.0089	0.0047
Venus	84748-07-10 00:29 G	32674821.36	32674821.52	32674821.69	0.0089	0.0056
Venus	84749-02-20 12:58 G	32675046.91	32675047.04	32675047.20	0.0089	0.0066
Venus	84749-10-04 02:10 G	32675272.48	32675272.59	32675272.71	0.0089	0.0076
Venus	84750-05-17 14:39 G	32675498.07	32675498.11	32675498.19	0.0089	0.0085



Moon	84755-12-13 21:08 G	32677534.30	32677534.38	32677534.53	0.0089	0.0081
Earth	84755-12-13 22:48 G	32677534.39	32677534.45	32677534.55	0.0089	0.0085 *
Earth	84756-12-15 10:34 G	32677901.78	32677901.94	32677902.14	0.0089	0.0064
Moon	84756-12-15 12:29 G	32677901.88	32677902.02	32677902.20	0.0089	0.0068 *
Moon	84757-12-17 19:27 G	32678269.08	32678269.31	32678269.55	0.0089	0.0038
Earth	84757-12-17 22:20 G	32678269.22	32678269.43	32678269.67	0.0089	0.0043 *
Earth	84758-12-20 10:20 G	32678636.68	32678636.93	32678637.18	0.0089	0.0021
Moon	84758-12-20 13:41 G	32678636.83	32678637.07	32678637.32	0.0089	0.0025 *
Moon	84759-12-22 18:44 G	32679004.03	32679004.28	32679004.54	0.0089	0.0004
Earth	84759-12-22 22:20 G	32679004.17	32679004.43	32679004.68	0.0089	0.0001 *
Earth	84760-12-24 09:51 G	32679371.66	32679371.91	32679372.16	0.0089	0.0022
Moon	84760-12-24 13:12 G	32679371.80	32679372.05	32679372.31	0.0089	0.0018 *
Moon	84761-12-26 18:58 G	32679739.11	32679739.29	32679739.53	0.0089	0.0048
Earth	84761-12-26 21:08 G	32679739.18	32679739.38	32679739.63	0.0089	0.0044 *
Earth	84762-12-29 08:53 G	32680106.71	32680106.87	32680107.07	0.0090	0.0065
Moon	84762-12-29 10:34 G	32680106.77	32680106.94	32680107.15	0.0090	0.0062 *
Earth	84763-12-31 20:39 G	32680474.31	32680474.36	32680474.45	0.0090	0.0086
Moon	84763-12-31 21:08 G	32680474.38	32680474.38	32680474.38	0.0090	0.0090 *
Mercury	84776-10-01 11:03 G	32685131.92	32685131.96	32685132.02	0.0090	0.0086
Mercury	84776-12-28 13:56 G	32685220.01	32685220.08	32685220.20	0.0090	0.0076
Mercury	84777-03-26 17:32 G	32685308.11	32685308.23	32685308.36	0.0090	0.0065
Mercury	84777-06-22 20:24 G	32685396.22	32685396.35	32685396.51	0.0090	0.0055
Mercury	84777-09-18 23:32 G	32685484.34	32685484.48	32685484.65	0.0090	0.0045
Mercury	84777-12-16 02:53 G	32685572.46	32685572.62	32685572.79	0.0090	0.0034
Mercury	84778-03-14 06:00 G	32685660.58	32685660.75	32685660.93	0.0090	0.0024
Mercury	84778-06-10 09:08 G	32685748.70	32685748.88	32685749.06	0.0090	0.0014
Mercury	84778-09-06 12:15 G	32685836.83	32685837.01	32685837.19	0.0090	0.0004
Mercury	84778-12-03 15:22 G	32685924.96	32685925.14	32685925.31	0.0090	0.0007
Mercury	84779-03-01 18:15 G	32686013.09	32686013.26	32686013.44	0.0090	0.0017
Mercury	84779-05-28 21:08 G	32686101.22	32686101.38	32686101.56	0.0090	0.0027

Mercury	84779-08-25 00:15 G	32686189.35	32686189.51	32686189.68	0.0090	0.0037
Mercury	84779-11-21 03:08 G	32686277.49	32686277.63	32686277.79	0.0090	0.0047
Mercury	84780-02-17 06:00 G	32686365.63	32686365.75	32686365.90	0.0090	0.0057
Mercury	84780-05-15 08:53 G	32686453.77	32686453.87	32686454.00	0.0090	0.0067
Mercury	84780-08-11 11:46 G	32686541.92	32686541.99	32686542.10	0.0090	0.0077
Mercury	84780-11-07 14:39 G	32686630.09	32686630.11	32686630.18	0.0090	0.0087
Mars	84789-08-25 10:20 G	32689842.65	32689842.93	32689843.21	0.0090	0.0036
Venus	84820-10-08 07:27 G	32701209.72	32701209.81	32701209.90	0.0089	0.0081
Venus	84821-05-21 20:10 G	32701435.23	32701435.34	32701435.49	0.0089	0.0072
Venus	84822-01-02 09:36 G	32701660.75	32701660.90	32701661.06	0.0089	0.0062
Venus	84822-08-15 22:34 G	32701886.28	32701886.44	32701886.64	0.0089	0.0053
Venus	84823-03-29 12:00 G	32702111.82	32702112.00	32702112.21	0.0089	0.0043
Venus	84823-11-10 01:27 G	32702337.36	32702337.56	32702337.77	0.0088	0.0033
Venus	84824-06-22 14:24 G	32702562.90	32702563.10	32702563.33	0.0088	0.0024
Venus	84825-02-03 04:05 G	32702788.45	32702788.67	32702788.89	0.0088	0.0014
Venus	84825-09-16 17:17 G	32703014.00	32703014.22	32703014.45	0.0088	0.0004
Venus	84826-04-30 06:29 G	32703239.56	32703239.77	32703240.00	0.0088	0.0007
Venus	84826-12-11 19:56 G	32703465.11	32703465.33	32703465.55	0.0088	0.0016
Venus	84827-07-25 08:53 G	32703690.67	32703690.87	32703691.10	0.0088	0.0026
Venus	84828-03-06 22:20 G	32703916.24	32703916.43	32703916.65	0.0088	0.0035
Venus	84828-10-18 11:46 G	32704141.80	32704141.99	32704142.19	0.0088	0.0045
Venus	84829-06-01 00:44 G	32704367.37	32704367.53	32704367.72	0.0088	0.0055
Venus	84830-01-12 13:41 G	32704592.95	32704593.07	32704593.25	0.0088	0.0065
Venus	84830-08-26 03:22 G	32704818.53	32704818.64	32704818.77	0.0088	0.0073
Venus	84831-04-08 16:20 G	32705044.13	32705044.18	32705044.28	0.0088	0.0084
Moon	84837-06-10 22:20 G	32707299.35	32707299.43	32707299.55	0.0088	0.0081
Earth	84837-06-11 00:44 G	32707299.43	32707299.53	32707299.66	0.0088	0.0078 *
Earth	84838-06-13 12:00 G	32707666.83	32707667.00	32707667.22	0.0088	0.0058
Moon	84838-06-13 15:08 G	32707666.96	32707667.13	32707667.36	0.0088	0.0054 *
Moon	84839-06-15 19:56 G	32708034.12	32708034.33	32708034.58	0.0088	0.0041

Earth	84839-06-16 00:00 G	32708034.27	32708034.50	32708034.74	0.0088	0.0037	*
Earth	84840-06-17 11:32 G	32708401.73	32708401.98	32708402.24	0.0088	0.0017	
Moon	84840-06-17 14:53 G	32708401.87	32708402.12	32708402.39	0.0088	0.0013	*
Moon	84841-06-19 20:10 G	32708769.08	32708769.34	32708769.60	0.0088	0.0000	
Earth	84841-06-19 23:17 G	32708769.21	32708769.47	32708769.73	0.0088	0.0004	*
Earth	84842-06-22 10:34 G	32709136.70	32709136.94	32709137.20	0.0088	0.0025	
Moon	84842-06-22 12:58 G	32709136.78	32709137.04	32709137.29	0.0088	0.0028	*
Moon	84843-06-24 20:53 G	32709504.17	32709504.37	32709504.61	0.0088	0.0042	
Earth	84843-06-24 22:20 G	32709504.22	32709504.43	32709504.66	0.0088	0.0045	*
Earth	84844-06-26 09:22 G	32709871.75	32709871.89	32709872.09	0.0088	0.0066	
Moon	84844-06-26 09:22 G	32709871.75	32709871.89	32709872.08	0.0088	0.0070	*
Earth	84845-06-28 21:08 G	32710239.35	32710239.38	32710239.45	0.0088	0.0086	
Moon	84845-06-28 23:03 G	32710239.39	32710239.46	32710239.56	0.0088	0.0082	*
Mercury	84858-04-03 03:08 G	32714900.62	32714900.63	32714900.67	0.0088	0.0086	
Mercury	84858-06-30 04:48 G	32714988.64	32714988.70	32714988.76	0.0088	0.0078	
Mercury	84858-09-26 06:15 G	32715076.68	32715076.76	32715076.84	0.0088	0.0071	
Mercury	84858-12-23 07:41 G	32715164.73	32715164.82	32715164.92	0.0088	0.0064	
Mercury	84859-03-21 09:08 G	32715252.78	32715252.88	32715252.99	0.0088	0.0057	
Mercury	84859-06-17 10:34 G	32715340.83	32715340.94	32715341.06	0.0088	0.0049	
Mercury	84859-09-13 12:15 G	32715428.89	32715429.01	32715429.13	0.0088	0.0042	
Mercury	84859-12-10 13:27 G	32715516.94	32715517.06	32715517.20	0.0088	0.0035	
Mercury	84860-03-07 15:08 G	32715605.00	32715605.13	32715605.26	0.0088	0.0027	
Mercury	84860-06-03 16:34 G	32715693.06	32715693.19	32715693.33	0.0088	0.0020	
Mercury	84860-08-30 18:15 G	32715781.12	32715781.26	32715781.40	0.0088	0.0013	
Mercury	84860-11-26 19:41 G	32715869.18	32715869.32	32715869.46	0.0088	0.0005	
Mercury	84861-02-22 21:08 G	32715957.24	32715957.38	32715957.52	0.0088	0.0002	
Mercury	84861-05-21 22:34 G	32716045.30	32716045.44	32716045.58	0.0088	0.0010	
Mercury	84861-08-18 00:00 G	32716133.37	32716133.50	32716133.65	0.0088	0.0018	
Mercury	84861-11-14 01:41 G	32716221.44	32716221.57	32716221.71	0.0088	0.0025	
Mercury	84862-02-10 03:08 G	32716309.50	32716309.63	32716309.77	0.0088	0.0032	

Mercury	84862-05-09 04:34 G	32716397.57	32716397.69	32716397.82	0.0088	0.0040
Mercury	84862-08-05 06:00 G	32716485.64	32716485.75	32716485.88	0.0088	0.0048
Mercury	84862-11-01 07:41 G	32716573.72	32716573.82	32716573.94	0.0088	0.0055
Mercury	84863-01-28 09:08 G	32716661.79	32716661.88	32716661.99	0.0088	0.0063
Mercury	84863-04-26 10:48 G	32716749.87	32716749.95	32716750.04	0.0088	0.0070
Mercury	84863-07-23 12:15 G	32716837.96	32716838.01	32716838.09	0.0088	0.0078
Mercury	84863-10-19 14:10 G	32716926.06	32716926.09	32716926.12	0.0088	0.0085
Mars	84873-06-20 20:10 G	32720458.06	32720458.34	32720458.63	0.0088	0.0041
Venus	84904-02-19 23:17 G	32731658.40	32731658.47	32731658.57	0.0089	0.0082
Venus	84904-10-02 12:00 G	32731883.90	32731884.00	32731884.15	0.0089	0.0073
Venus	84905-05-16 00:58 G	32732109.40	32732109.54	32732109.71	0.0089	0.0063
Venus	84905-12-27 13:56 G	32732334.91	32732335.08	32732335.26	0.0089	0.0053
Venus	84906-08-10 02:39 G	32732560.43	32732560.61	32732560.81	0.0089	0.0044
Venus	84907-03-23 15:22 G	32732785.95	32732786.14	32732786.36	0.0089	0.0034
Venus	84907-11-04 04:20 G	32733011.47	32733011.68	32733011.89	0.0089	0.0024
Venus	84908-06-16 16:48 G	32733237.00	32733237.20	32733237.43	0.0089	0.0015
Venus	84909-01-28 05:46 G	32733462.52	32733462.74	32733462.96	0.0089	0.0005
Venus	84909-09-10 18:44 G	32733688.06	32733688.28	32733688.50	0.0089	0.0005
Venus	84910-04-24 07:12 G	32733913.59	32733913.80	32733914.02	0.0089	0.0015
Venus	84910-12-05 19:56 G	32734139.13	32734139.33	32734139.55	0.0089	0.0024
Venus	84911-07-19 08:24 G	32734364.66	32734364.85	32734365.07	0.0089	0.0034
Venus	84912-02-29 21:36 G	32734590.21	32734590.40	32734590.59	0.0089	0.0043
Venus	84912-10-12 10:05 G	32734815.76	32734815.92	32734816.10	0.0089	0.0053
Venus	84913-05-25 22:34 G	32735041.31	32735041.44	32735041.61	0.0089	0.0063
Venus	84914-01-06 11:32 G	32735266.87	32735266.98	32735267.12	0.0089	0.0073
Venus	84914-08-20 00:15 G	32735492.44	32735492.51	32735492.61	0.0089	0.0082
Jupiter	84916-09-01 21:22 G	32736235.86	32736236.39	32736236.94	0.0089	0.0026
Moon	84920-12-15 14:10 G	32737801.95	32737802.09	32737802.28	0.0089	0.0069
Earth	84920-12-15 17:32 G	32737802.10	32737802.23	32737802.41	0.0089	0.0071 *
Earth	84921-12-18 05:17 G	32738169.53	32738169.72	32738169.95	0.0089	0.0050

Moon	84921-12-18 09:22 G	32738169.68	32738169.89	32738170.10	0.0089	0.0052	*
Moon	84922-12-20 13:56 G	32738536.85	32738537.08	32738537.34	0.0089	0.0027	
Earth	84922-12-20 17:17 G	32738536.99	32738537.22	32738537.48	0.0089	0.0029	*
Earth	84923-12-23 05:03 G	32738904.46	32738904.71	32738904.98	0.0089	0.0008	
Moon	84923-12-23 08:10 G	32738904.58	32738904.84	32738905.10	0.0089	0.0010	*
Moon	84924-12-24 14:53 G	32739271.88	32739272.12	32739272.37	0.0089	0.0017	
Earth	84924-12-24 16:48 G	32739271.96	32739272.20	32739272.46	0.0089	0.0015	*
Earth	84925-12-27 04:20 G	32739639.46	32739639.68	32739639.93	0.0089	0.0036	
Moon	84925-12-27 04:48 G	32739639.47	32739639.70	32739639.96	0.0089	0.0034	*
Earth	84926-12-29 16:05 G	32740006.99	32740007.17	32740007.38	0.0089	0.0057	
Moon	84926-12-29 16:05 G	32740007.01	32740007.17	32740007.38	0.0089	0.0060	*
Moon	84928-01-01 02:24 G	32740374.47	32740374.60	32740374.75	0.0089	0.0075	
Earth	84928-01-01 03:51 G	32740374.55	32740374.66	32740374.80	0.0089	0.0078	*
Mercury	84941-06-29 08:53 G	32745302.81	32745302.87	32745302.95	0.0090	0.0083	
Mercury	84941-09-25 12:00 G	32745390.91	32745391.00	32745391.12	0.0090	0.0073	
Mercury	84941-12-22 15:22 G	32745479.02	32745479.14	32745479.28	0.0090	0.0062	
Mercury	84942-03-20 18:15 G	32745567.13	32745567.26	32745567.42	0.0090	0.0052	
Mercury	84942-06-16 21:22 G	32745655.25	32745655.39	32745655.57	0.0090	0.0042	
Mercury	84942-09-13 00:44 G	32745743.37	32745743.53	32745743.71	0.0090	0.0031	
Mercury	84942-12-10 03:51 G	32745831.49	32745831.66	32745831.84	0.0090	0.0021	
Mercury	84943-03-08 06:58 G	32745919.62	32745919.79	32745919.97	0.0090	0.0011	
Mercury	84943-06-04 10:05 G	32746007.74	32746007.92	32746008.10	0.0090	0.0001	
Mercury	84943-08-31 13:12 G	32746095.87	32746096.05	32746096.23	0.0090	0.0010	
Mercury	84943-11-27 16:20 G	32746184.00	32746184.18	32746184.35	0.0090	0.0020	
Mercury	84944-02-23 18:58 G	32746272.14	32746272.29	32746272.47	0.0090	0.0031	
Mercury	84944-05-21 22:05 G	32746360.27	32746360.42	32746360.59	0.0090	0.0041	
Mercury	84944-08-18 00:58 G	32746448.41	32746448.54	32746448.70	0.0090	0.0051	
Mercury	84944-11-14 04:20 G	32746536.55	32746536.68	32746536.81	0.0090	0.0060	
Mercury	84945-02-10 07:12 G	32746624.70	32746624.80	32746624.91	0.0090	0.0070	
Mercury	84945-05-09 10:05 G	32746712.85	32746712.92	32746713.01	0.0090	0.0080	

Mars	84955-03-05 14:24 G	32750299.86	32750300.10	32750300.40	0.0090	0.0043
Venus	84985-01-10 15:36 G	32761204.10	32761204.15	32761204.23	0.0089	0.0085
Venus	84985-08-24 04:34 G	32761429.60	32761429.69	32761429.83	0.0089	0.0076
Venus	84986-04-06 18:00 G	32761655.12	32761655.25	32761655.42	0.0089	0.0066
Venus	84986-11-18 07:27 G	32761880.65	32761880.81	32761880.99	0.0089	0.0056
Venus	84987-07-01 20:24 G	32762106.18	32762106.35	32762106.55	0.0089	0.0047
Venus	84988-02-12 09:51 G	32762331.72	32762331.91	32762332.12	0.0089	0.0037
Venus	84988-09-24 23:17 G	32762557.26	32762557.47	32762557.68	0.0088	0.0027
Venus	84989-05-08 12:15 G	32762782.80	32762783.01	32762783.24	0.0088	0.0018
Venus	84989-12-20 01:41 G	32763008.35	32763008.57	32763008.79	0.0088	0.0007
Venus	84990-08-02 14:53 G	32763233.90	32763234.12	32763234.35	0.0088	0.0003
Venus	84991-03-16 04:20 G	32763459.46	32763459.68	32763459.90	0.0088	0.0012
Venus	84991-10-27 17:17 G	32763685.02	32763685.22	32763685.45	0.0088	0.0023
Venus	84992-06-09 06:44 G	32763910.58	32763910.78	32763911.00	0.0088	0.0032
Venus	84993-01-20 19:56 G	32764136.15	32764136.33	32764136.54	0.0088	0.0042
Venus	84993-09-03 09:08 G	32764361.72	32764361.88	32764362.08	0.0088	0.0051
Venus	84994-04-16 22:48 G	32764587.30	32764587.45	32764587.62	0.0088	0.0061
Venus	84994-11-28 11:46 G	32764812.88	32764812.99	32764813.14	0.0088	0.0071
Venus	84995-07-12 01:27 G	32765038.47	32765038.56	32765038.66	0.0088	0.0080

# 86TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 86th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
--------	-------------------------	---	-------	-----	-----	--------	-------	---

Earth	85001-06-12 07:27 G	32767199.77	32767199.81	32767199.90	0.0088	0.0085
Moon	85002-06-14 15:36 G	32767566.97	32767567.15	32767567.34	0.0088	0.0061
Earth	85002-06-14 18:44 G	32767567.14	32767567.28	32767567.48	0.0088	0.0065 *
Earth	85003-06-17 06:29 G	32767934.56	32767934.77	32767935.01	0.0088	0.0044
Moon	85003-06-17 09:51 G	32767934.71	32767934.91	32767935.15	0.0088	0.0048 *
Moon	85004-06-18 15:36 G	32768301.92	32768302.15	32768302.41	0.0088	0.0021
Earth	85004-06-18 18:15 G	32768302.02	32768302.26	32768302.52	0.0088	0.0024 *
Earth	85005-06-21 06:00 G	32768669.49	32768669.75	32768670.01	0.0088	0.0003
Moon	85005-06-21 07:56 G	32768669.57	32768669.83	32768670.10	0.0088	0.0006 *
Moon	85006-06-23 17:17 G	32769036.98	32769037.22	32769037.47	0.0088	0.0021
Earth	85006-06-23 17:46 G	32769036.98	32769037.24	32769037.49	0.0088	0.0017 *
Moon	85007-06-26 04:05 G	32769404.43	32769404.67	32769404.93	0.0088	0.0035
Earth	85007-06-26 04:48 G	32769404.49	32769404.70	32769404.95	0.0088	0.0038 *
Earth	85008-06-27 16:34 G	32769772.01	32769772.19	32769772.40	0.0088	0.0058
Moon	85008-06-27 18:15 G	32769772.09	32769772.26	32769772.46	0.0088	0.0061 *
Moon	85009-06-30 00:58 G	32770139.42	32770139.54	32770139.69	0.0088	0.0075
Earth	85009-06-30 03:51 G	32770139.58	32770139.66	32770139.81	0.0088	0.0079 *
Mercury	85022-12-31 02:24 G	32775071.57	32775071.60	32775071.66	0.0088	0.0083
Mercury	85023-03-29 03:51 G	32775159.60	32775159.66	32775159.74	0.0088	0.0076
Mercury	85023-06-25 05:32 G	32775247.65	32775247.73	32775247.82	0.0088	0.0068
Mercury	85023-09-21 06:58 G	32775335.69	32775335.79	32775335.89	0.0088	0.0061
Mercury	85023-12-18 08:24 G	32775423.75	32775423.85	32775423.96	0.0088	0.0054
Mercury	85024-03-15 09:51 G	32775511.80	32775511.91	32775512.03	0.0088	0.0046
Mercury	85024-06-11 11:32 G	32775599.85	32775599.98	32775600.10	0.0088	0.0039
Mercury	85024-09-07 12:44 G	32775687.91	32775688.03	32775688.17	0.0088	0.0032
Mercury	85024-12-04 14:24 G	32775775.97	32775776.10	32775776.24	0.0088	0.0024
Mercury	85025-03-02 15:51 G	32775864.03	32775864.16	32775864.30	0.0088	0.0017
Mercury	85025-05-29 17:17 G	32775952.09	32775952.22	32775952.36	0.0088	0.0010
Mercury	85025-08-25 18:58 G	32776040.15	32776040.29	32776040.43	0.0088	0.0003

Mercury	85025-11-21 20:24 G	32776128.21	32776128.35	32776128.49	0.0088	0.0005
Mercury	85026-02-17 21:51 G	32776216.27	32776216.41	32776216.55	0.0088	0.0013
Mercury	85026-05-16 23:17 G	32776304.34	32776304.47	32776304.61	0.0088	0.0020
Mercury	85026-08-13 00:44 G	32776392.40	32776392.53	32776392.67	0.0088	0.0028
Mercury	85026-11-09 02:24 G	32776480.47	32776480.60	32776480.73	0.0088	0.0035
Mercury	85027-02-05 03:51 G	32776568.54	32776568.66	32776568.79	0.0088	0.0043
Mercury	85027-05-04 05:32 G	32776656.61	32776656.73	32776656.85	0.0088	0.0050
Mercury	85027-07-31 06:44 G	32776744.69	32776744.78	32776744.90	0.0088	0.0058
Mercury	85027-10-27 08:39 G	32776832.76	32776832.86	32776832.95	0.0088	0.0065
Mercury	85028-01-23 09:51 G	32776920.85	32776920.91	32776921.00	0.0088	0.0073
Mercury	85028-04-20 11:17 G	32777008.93	32777008.97	32777009.04	0.0088	0.0081
Mars	85037-02-04 03:51 G	32780220.35	32780220.66	32780220.99	0.0088	0.0011
Venus	85068-05-24 09:36 G	32791652.85	32791652.90	32791652.97	0.0089	0.0085
Venus	85069-01-04 22:05 G	32791878.33	32791878.42	32791878.55	0.0089	0.0076
Venus	85069-08-18 11:17 G	32792103.84	32792103.97	32792104.13	0.0089	0.0066
Venus	85070-04-01 00:00 G	32792329.35	32792329.50	32792329.68	0.0089	0.0057
Venus	85070-11-12 12:44 G	32792554.86	32792555.03	32792555.23	0.0089	0.0047
Venus	85071-06-26 01:41 G	32792780.38	32792780.57	32792780.78	0.0089	0.0037
Venus	85072-02-06 14:24 G	32793005.91	32793006.10	32793006.32	0.0089	0.0028
Venus	85072-09-19 03:22 G	32793231.44	32793231.64	32793231.87	0.0089	0.0018
Venus	85073-05-02 16:20 G	32793456.97	32793457.18	32793457.40	0.0089	0.0008
Venus	85073-12-14 05:03 G	32793682.50	32793682.71	32793682.93	0.0089	0.0002
Venus	85074-07-27 17:46 G	32793908.03	32793908.24	32793908.46	0.0089	0.0012
Venus	85075-03-10 06:29 G	32794133.56	32794133.77	32794133.99	0.0089	0.0021
Venus	85075-10-21 19:12 G	32794359.10	32794359.30	32794359.51	0.0089	0.0031
Venus	85076-06-03 07:41 G	32794584.64	32794584.82	32794585.03	0.0089	0.0041
Venus	85077-01-14 20:39 G	32794810.19	32794810.36	32794810.54	0.0089	0.0050
Venus	85077-08-28 09:22 G	32795035.74	32795035.89	32795036.06	0.0089	0.0060
Venus	85078-04-10 21:51 G	32795261.30	32795261.41	32795261.56	0.0089	0.0070
Venus	85078-11-22 10:48 G	32795486.86	32795486.95	32795487.06	0.0089	0.0079



Venus	85079-07-05 23:32 G	32795712.48	32795712.48	32795712.50	0.0089	0.0089
Earth	85084-12-16 01:27 G	32797702.45	32797702.56	32797702.70	0.0089	0.0078
Moon	85084-12-16 04:20 G	32797702.57	32797702.68	32797702.86	0.0089	0.0074 *
Moon	85085-12-18 09:36 G	32798069.75	32798069.90	32798070.11	0.0089	0.0062
Earth	85085-12-18 13:12 G	32798069.87	32798070.05	32798070.27	0.0089	0.0057 *
Earth	85086-12-21 00:58 G	32798437.32	32798437.54	32798437.79	0.0089	0.0036
Moon	85086-12-21 03:22 G	32798437.41	32798437.64	32798437.90	0.0089	0.0031 *
Moon	85087-12-23 11:46 G	32798804.76	32798804.99	32798805.24	0.0089	0.0019
Earth	85087-12-23 12:58 G	32798804.80	32798805.04	32798805.30	0.0089	0.0015 *
Earth	85088-12-25 00:44 G	32799172.28	32799172.53	32799172.79	0.0089	0.0007
Moon	85088-12-25 00:58 G	32799172.29	32799172.54	32799172.81	0.0089	0.0012 *
Earth	85089-12-27 12:00 G	32799539.78	32799540.00	32799540.26	0.0089	0.0029
Moon	85089-12-27 13:41 G	32799539.83	32799540.07	32799540.31	0.0089	0.0023 *
Moon	85090-12-29 21:36 G	32799907.21	32799907.40	32799907.63	0.0089	0.0053
Earth	85090-12-30 00:15 G	32799907.30	32799907.51	32799907.72	0.0089	0.0049 *
Earth	85092-01-01 11:03 G	32800274.83	32800274.96	32800275.15	0.0089	0.0071
Moon	85092-01-01 14:24 G	32800274.94	32800275.10	32800275.28	0.0089	0.0066 *
Mercury	85105-12-30 04:05 G	32805385.66	32805385.67	32805385.69	0.0090	0.0089
Mercury	85106-03-28 06:58 G	32805473.72	32805473.79	32805473.89	0.0090	0.0079
Mercury	85106-06-24 10:34 G	32805561.82	32805561.94	32805562.06	0.0090	0.0068
Mercury	85106-09-20 13:27 G	32805649.93	32805650.06	32805650.21	0.0090	0.0058
Mercury	85106-12-17 16:34 G	32805738.05	32805738.19	32805738.36	0.0090	0.0048
Mercury	85107-03-15 19:56 G	32805826.17	32805826.33	32805826.50	0.0090	0.0037
Mercury	85107-06-11 23:03 G	32805914.29	32805914.46	32805914.64	0.0090	0.0027
Mercury	85107-09-08 02:10 G	32806002.42	32806002.59	32806002.77	0.0090	0.0017
Mercury	85107-12-05 05:17 G	32806090.54	32806090.72	32806090.90	0.0090	0.0006
Mercury	85108-03-02 08:24 G	32806178.67	32806178.85	32806179.03	0.0090	0.0004
Mercury	85108-05-29 11:32 G	32806266.80	32806266.98	32806267.16	0.0090	0.0014
Mercury	85108-08-25 14:24 G	32806354.93	32806355.10	32806355.28	0.0090	0.0025
Mercury	85108-11-21 17:17 G	32806443.07	32806443.22	32806443.40	0.0090	0.0035

Mercury	85109-02-17 20:24 G	32806531.21	32806531.35	32806531.52	0.0090	0.0045
Mercury	85109-05-16 23:17 G	32806619.35	32806619.47	32806619.63	0.0090	0.0055
Mercury	85109-08-13 02:24 G	32806707.49	32806707.60	32806707.74	0.0090	0.0065
Mercury	85109-11-09 05:17 G	32806795.64	32806795.72	32806795.83	0.0090	0.0075
Mercury	85110-02-05 08:39 G	32806883.80	32806883.86	32806883.92	0.0090	0.0084
Mars	85118-10-20 07:12 G	32810062.51	32810062.80	32810063.12	0.0090	0.0013
Venus	85149-04-16 01:12 G	32821198.53	32821198.55	32821198.58	0.0089	0.0088
Venus	85149-11-27 13:56 G	32821424.00	32821424.08	32821424.20	0.0089	0.0079
Venus	85150-07-11 03:22 G	32821649.52	32821649.64	32821649.79	0.0089	0.0069
Venus	85151-02-21 16:34 G	32821875.04	32821875.19	32821875.37	0.0089	0.0060
Venus	85151-10-05 05:46 G	32822100.58	32822100.74	32822100.94	0.0089	0.0050
Venus	85152-05-17 19:12 G	32822326.11	32822326.30	32822326.50	0.0089	0.0040
Venus	85152-12-29 08:10 G	32822551.65	32822551.84	32822552.06	0.0089	0.0031
Venus	85153-08-11 21:36 G	32822777.19	32822777.40	32822777.62	0.0089	0.0020
Venus	85154-03-25 11:03 G	32823002.74	32823002.96	32823003.18	0.0088	0.0011
Venus	85154-11-06 00:15 G	32823228.29	32823228.51	32823228.73	0.0088	0.0001
Venus	85155-06-19 13:12 G	32823453.84	32823454.05	32823454.28	0.0088	0.0010
Venus	85156-01-31 02:39 G	32823679.39	32823679.61	32823679.83	0.0088	0.0019
Venus	85156-09-12 15:51 G	32823904.95	32823905.16	32823905.37	0.0088	0.0029
Venus	85157-04-26 05:03 G	32824130.52	32824130.71	32824130.92	0.0088	0.0038
Venus	85157-12-07 18:00 G	32824356.08	32824356.25	32824356.46	0.0088	0.0049
Venus	85158-07-21 07:41 G	32824581.66	32824581.82	32824581.99	0.0088	0.0058
Venus	85159-03-03 20:53 G	32824807.24	32824807.37	32824807.52	0.0088	0.0067
Venus	85159-10-15 09:51 G	32825032.83	32825032.91	32825033.04	0.0088	0.0078
Venus	85160-05-27 23:17 G	32825258.45	32825258.47	32825258.53	0.0088	0.0087
Earth	85166-06-15 02:10 G	32827467.46	32827467.59	32827467.76	0.0088	0.0072
Moon	85166-06-15 05:32 G	32827467.61	32827467.73	32827467.89	0.0088	0.0075 *
Moon	85167-06-17 11:46 G	32827834.79	32827834.99	32827835.21	0.0088	0.0048
Earth	85167-06-17 13:41 G	32827834.88	32827835.07	32827835.30	0.0088	0.0051 *
Earth	85168-06-19 01:12 G	32828202.32	32828202.55	32828202.81	0.0088	0.0031

Moon	85168-06-19 01:56 G	32828202.35	32828202.58	32828202.85	0.0088	0.0033	*
Earth	85169-06-21 12:58 G	32828569.79	32828570.04	32828570.30	0.0088	0.0010	
Moon	85169-06-21 12:58 G	32828569.79	32828570.04	32828570.29	0.0088	0.0007	*
Moon	85170-06-23 22:48 G	32828937.19	32828937.45	32828937.72	0.0088	0.0008	
Earth	85170-06-24 00:29 G	32828937.27	32828937.52	32828937.78	0.0088	0.0010	*
Earth	85171-06-26 12:00 G	32829304.77	32829305.00	32829305.25	0.0088	0.0031	
Moon	85171-06-26 14:39 G	32829304.88	32829305.11	32829305.35	0.0088	0.0033	*
Moon	85172-06-27 20:24 G	32829672.15	32829672.35	32829672.60	0.0088	0.0048	
Earth	85172-06-27 23:46 G	32829672.29	32829672.49	32829672.71	0.0088	0.0051	*
Earth	85173-06-30 10:48 G	32830039.83	32830039.95	32830040.13	0.0088	0.0072	
Moon	85173-06-30 14:53 G	32830040.01	32830040.12	32830040.27	0.0088	0.0075	*
Mercury	85187-07-02 00:15 G	32835154.51	32835154.51	32835154.55	0.0088	0.0087	
Mercury	85187-09-28 02:10 G	32835242.53	32835242.59	32835242.64	0.0088	0.0079	
Mercury	85187-12-25 03:22 G	32835330.57	32835330.64	32835330.73	0.0088	0.0072	
Mercury	85188-03-22 04:48 G	32835418.62	32835418.70	32835418.80	0.0088	0.0065	
Mercury	85188-06-18 06:15 G	32835506.67	32835506.76	32835506.87	0.0088	0.0058	
Mercury	85188-09-14 07:41 G	32835594.72	32835594.82	32835594.94	0.0088	0.0051	
Mercury	85188-12-11 09:22 G	32835682.77	32835682.89	32835683.01	0.0088	0.0043	
Mercury	85189-03-09 10:48 G	32835770.83	32835770.95	32835771.08	0.0088	0.0036	
Mercury	85189-06-05 12:15 G	32835858.88	32835859.01	32835859.15	0.0088	0.0028	
Mercury	85189-09-01 13:56 G	32835946.94	32835947.08	32835947.21	0.0088	0.0021	
Mercury	85189-11-28 15:22 G	32836035.00	32836035.14	32836035.28	0.0088	0.0014	
Mercury	85190-02-24 16:48 G	32836123.06	32836123.20	32836123.34	0.0088	0.0006	
Mercury	85190-05-23 18:15 G	32836211.12	32836211.26	32836211.40	0.0088	0.0002	
Mercury	85190-08-19 19:41 G	32836299.18	32836299.32	32836299.46	0.0088	0.0009	
Mercury	85190-11-15 21:22 G	32836387.25	32836387.39	32836387.53	0.0088	0.0016	
Mercury	85191-02-11 22:34 G	32836475.31	32836475.44	32836475.59	0.0088	0.0024	
Mercury	85191-05-11 00:15 G	32836563.38	32836563.51	32836563.64	0.0088	0.0031	
Mercury	85191-08-07 01:41 G	32836651.45	32836651.57	32836651.70	0.0088	0.0039	
Mercury	85191-11-03 03:22 G	32836739.52	32836739.64	32836739.76	0.0088	0.0046	

Mercury	85192-01-30 04:34 G	32836827.59	32836827.69	32836827.81	0.0088	0.0054
Mercury	85192-04-27 06:15 G	32836915.67	32836915.76	32836915.87	0.0088	0.0061
Mercury	85192-07-24 07:41 G	32837003.74	32837003.82	32837003.92	0.0088	0.0069
Mercury	85192-10-20 09:22 G	32837091.83	32837091.89	32837091.96	0.0088	0.0076
Mercury	85193-01-16 10:48 G	32837179.92	32837179.95	32837180.00	0.0088	0.0084
Mars	85200-09-19 10:34 G	32839982.73	32839982.94	32839983.18	0.0088	0.0063
Mars	85202-08-15 12:29 G	32840677.86	32840678.02	32840678.25	0.0088	0.0070
Venus	85232-08-26 20:24 G	32851647.33	32851647.35	32851647.37	0.0089	0.0088
Venus	85233-04-09 08:39 G	32851872.78	32851872.86	32851872.98	0.0089	0.0079
Venus	85233-11-20 21:51 G	32852098.28	32852098.41	32852098.55	0.0089	0.0069
Venus	85234-07-04 10:20 G	32852323.78	32852323.93	32852324.11	0.0089	0.0060
Venus	85235-02-14 23:17 G	32852549.30	32852549.47	32852549.66	0.0089	0.0050
Venus	85235-09-28 12:15 G	32852774.82	32852775.01	32852775.21	0.0089	0.0040
Venus	85236-05-11 00:58 G	32853000.35	32853000.54	32853000.76	0.0089	0.0031
Venus	85236-12-22 13:56 G	32853225.87	32853226.08	32853226.30	0.0089	0.0021
Venus	85237-08-05 02:53 G	32853451.40	32853451.62	32853451.84	0.0089	0.0011
Venus	85238-03-18 15:36 G	32853676.93	32853677.15	32853677.37	0.0089	0.0002
Venus	85238-10-30 04:20 G	32853902.47	32853902.68	32853902.90	0.0089	0.0009
Venus	85239-06-12 17:03 G	32854128.00	32854128.21	32854128.43	0.0089	0.0019
Venus	85240-01-24 05:46 G	32854353.54	32854353.74	32854353.95	0.0089	0.0028
Venus	85240-09-05 18:29 G	32854579.09	32854579.27	32854579.48	0.0089	0.0038
Venus	85241-04-19 07:12 G	32854804.63	32854804.80	32854805.00	0.0089	0.0048
Venus	85241-11-30 20:10 G	32855030.18	32855030.34	32855030.51	0.0089	0.0057
Venus	85242-07-14 08:24 G	32855255.73	32855255.85	32855256.01	0.0089	0.0068
Venus	85243-02-24 21:36 G	32855481.29	32855481.40	32855481.51	0.0089	0.0077
Venus	85243-10-08 10:05 G	32855706.89	32855706.92	32855706.99	0.0089	0.0086
Moon	85248-12-16 06:58 G	32857602.73	32857602.79	32857602.90	0.0089	0.0084
Earth	85248-12-16 09:22 G	32857602.84	32857602.89	32857603.01	0.0089	0.0085 *
Earth	85249-12-18 21:36 G	32857970.24	32857970.40	32857970.60	0.0089	0.0063
Moon	85249-12-19 00:15 G	32857970.33	32857970.51	32857970.71	0.0089	0.0062 *

Moon	85250-12-21 09:08 G	32858337.68	32858337.88	32858338.11	0.0089	0.0043
Earth	85250-12-21 09:36 G	32858337.70	32858337.90	32858338.15	0.0089	0.0043 *
Moon	85251-12-23 21:08 G	32858705.13	32858705.38	32858705.64	0.0089	0.0021
Earth	85251-12-23 21:36 G	32858705.16	32858705.40	32858705.66	0.0089	0.0021 *
Earth	85252-12-25 09:36 G	32859072.65	32859072.90	32859073.16	0.0089	0.0001
Moon	85252-12-25 11:03 G	32859072.71	32859072.96	32859073.21	0.0089	0.0001 *
Moon	85253-12-27 18:29 G	32859440.02	32859440.27	32859440.53	0.0089	0.0022
Earth	85253-12-27 21:08 G	32859440.15	32859440.38	32859440.64	0.0089	0.0022 *
Earth	85254-12-30 08:39 G	32859807.65	32859807.86	32859808.10	0.0089	0.0043
Moon	85254-12-30 12:15 G	32859807.79	32859808.01	32859808.24	0.0089	0.0042 *
Moon	85256-01-01 17:03 G	32860175.04	32860175.21	32860175.40	0.0089	0.0065
Earth	85256-01-01 20:10 G	32860175.19	32860175.34	32860175.55	0.0089	0.0064 *
Earth	85257-01-03 08:10 G	32860542.76	32860542.84	32860542.93	0.0089	0.0084
Moon	85257-01-03 11:17 G	32860542.90	32860542.97	32860543.09	0.0089	0.0083 *
Mercury	85270-09-26 02:10 G	32865556.55	32865556.59	32865556.67	0.0090	0.0085
Mercury	85270-12-23 05:32 G	32865644.64	32865644.73	32865644.84	0.0090	0.0074
Mercury	85271-03-21 08:39 G	32865732.75	32865732.86	32865733.00	0.0090	0.0064
Mercury	85271-06-17 11:46 G	32865820.86	32865820.99	32865821.15	0.0090	0.0054
Mercury	85271-09-13 15:08 G	32865908.98	32865909.13	32865909.30	0.0090	0.0043
Mercury	85271-12-10 18:15 G	32865997.10	32865997.26	32865997.44	0.0090	0.0033
Mercury	85272-03-07 21:22 G	32866085.22	32866085.39	32866085.57	0.0090	0.0022
Mercury	85272-06-04 00:44 G	32866173.35	32866173.53	32866173.71	0.0090	0.0012
Mercury	85272-08-31 03:51 G	32866261.48	32866261.66	32866261.84	0.0090	0.0003
Mercury	85272-11-27 06:44 G	32866349.61	32866349.78	32866349.96	0.0090	0.0009
Mercury	85273-02-23 09:51 G	32866437.74	32866437.91	32866438.09	0.0090	0.0019
Mercury	85273-05-22 12:58 G	32866525.87	32866526.04	32866526.21	0.0090	0.0029
Mercury	85273-08-18 15:51 G	32866614.01	32866614.16	32866614.33	0.0090	0.0039
Mercury	85273-11-14 18:58 G	32866702.15	32866702.29	32866702.44	0.0090	0.0049
Mercury	85274-02-10 21:51 G	32866790.29	32866790.41	32866790.56	0.0090	0.0059
Mercury	85274-05-10 00:58 G	32866878.43	32866878.54	32866878.66	0.0090	0.0069

Mercury	85274-08-06 03:51 G	32866966.59	32866966.66	32866966.76	0.0090	0.0079
Mercury	85274-11-02 06:44 G	32867054.78	32867054.78	32867054.82	0.0090	0.0089
Mars	85282-06-04 03:51 G	32869825.47	32869825.66	32869825.89	0.0090	0.0065
Mars	85284-04-28 14:39 G	32870519.93	32870520.11	32870520.32	0.0090	0.0068
Venus	85314-03-01 23:32 G	32881418.42	32881418.48	32881418.59	0.0089	0.0082
Venus	85314-10-13 13:12 G	32881643.93	32881644.05	32881644.18	0.0089	0.0072
Venus	85315-05-27 01:56 G	32881869.45	32881869.58	32881869.76	0.0089	0.0063
Venus	85316-01-07 15:22 G	32882094.98	32882095.14	32882095.33	0.0089	0.0053
Venus	85316-08-20 04:48 G	32882320.51	32882320.70	32882320.90	0.0089	0.0043
Venus	85317-04-02 18:00 G	32882546.06	32882546.25	32882546.47	0.0089	0.0033
Venus	85317-11-14 07:12 G	32882771.60	32882771.80	32882772.03	0.0089	0.0024
Venus	85318-06-27 20:39 G	32882997.14	32882997.36	32882997.58	0.0088	0.0014
Venus	85319-02-08 09:51 G	32883222.69	32883222.91	32883223.14	0.0088	0.0004
Venus	85319-09-21 23:03 G	32883448.24	32883448.46	32883448.69	0.0088	0.0006
Venus	85320-05-04 12:15 G	32883673.80	32883674.01	32883674.24	0.0088	0.0016
Venus	85320-12-16 01:27 G	32883899.35	32883899.56	32883899.78	0.0088	0.0026
Venus	85321-07-29 14:39 G	32884124.91	32884125.11	32884125.32	0.0088	0.0035
Venus	85322-03-12 03:51 G	32884350.48	32884350.66	32884350.86	0.0088	0.0045
Venus	85322-10-23 16:48 G	32884576.05	32884576.20	32884576.40	0.0088	0.0056
Venus	85323-06-06 06:29 G	32884801.63	32884801.77	32884801.93	0.0088	0.0065
Venus	85324-01-17 19:27 G	32885027.21	32885027.31	32885027.45	0.0088	0.0075
Venus	85324-08-30 08:39 G	32885252.82	32885252.86	32885252.95	0.0088	0.0084
Moon	85330-06-15 08:53 G	32887367.80	32887367.87	32887367.99	0.0088	0.0082
Earth	85330-06-15 10:48 G	32887367.85	32887367.95	32887368.09	0.0088	0.0077 *
Earth	85331-06-17 22:20 G	32887735.25	32887735.43	32887735.64	0.0088	0.0057
Moon	85331-06-17 22:48 G	32887735.26	32887735.45	32887735.68	0.0088	0.0053 *
Earth	85332-06-19 09:36 G	32888102.68	32888102.90	32888103.15	0.0088	0.0037
Moon	85332-06-19 10:48 G	32888102.74	32888102.95	32888103.18	0.0088	0.0041 *
Moon	85333-06-21 19:12 G	32888470.05	32888470.30	32888470.58	0.0088	0.0013
Earth	85333-06-21 21:08 G	32888470.13	32888470.38	32888470.64	0.0088	0.0017 *

Earth	85334-06-24 08:39 G	32888837.60	32888837.86	32888838.12	0.0088	0.0004
Moon	85334-06-24 11:32 G	32888837.73	32888837.98	32888838.24	0.0088	0.0001 *
Moon	85335-06-26 16:48 G	32889204.95	32889205.20	32889205.44	0.0088	0.0028
Earth	85335-06-26 20:10 G	32889205.10	32889205.34	32889205.60	0.0088	0.0024 *
Earth	85336-06-28 07:41 G	32889572.60	32889572.82	32889573.05	0.0088	0.0044
Moon	85336-06-28 10:48 G	32889572.74	32889572.95	32889573.20	0.0088	0.0041 *
Moon	85337-06-30 15:22 G	32889940.01	32889940.14	32889940.33	0.0088	0.0069
Earth	85337-06-30 18:44 G	32889940.14	32889940.28	32889940.49	0.0088	0.0065 *
Earth	85338-07-03 06:29 G	32890307.73	32890307.77	32890307.86	0.0088	0.0085
Moon	85338-07-03 08:53 G	32890307.79	32890307.87	32890308.00	0.0088	0.0081 *
Mercury	85352-03-29 00:00 G	32895325.46	32895325.50	32895325.55	0.0088	0.0083
Mercury	85352-06-25 01:27 G	32895413.50	32895413.56	32895413.63	0.0088	0.0076
Mercury	85352-09-21 02:39 G	32895501.54	32895501.61	32895501.71	0.0088	0.0069
Mercury	85352-12-18 04:05 G	32895589.59	32895589.67	32895589.78	0.0088	0.0062
Mercury	85353-03-16 05:46 G	32895677.64	32895677.74	32895677.86	0.0088	0.0054
Mercury	85353-06-12 07:12 G	32895765.69	32895765.80	32895765.93	0.0088	0.0047
Mercury	85353-09-08 08:39 G	32895853.75	32895853.86	32895853.99	0.0088	0.0040
Mercury	85353-12-05 10:20 G	32895941.80	32895941.93	32895942.06	0.0088	0.0032
Mercury	85354-03-03 11:46 G	32896029.86	32896029.99	32896030.13	0.0088	0.0025
Mercury	85354-05-30 13:12 G	32896117.92	32896118.05	32896118.19	0.0088	0.0018
Mercury	85354-08-26 14:39 G	32896205.98	32896206.11	32896206.26	0.0088	0.0011
Mercury	85354-11-22 16:20 G	32896294.04	32896294.18	32896294.32	0.0088	0.0003
Mercury	85355-02-18 17:46 G	32896382.10	32896382.24	32896382.38	0.0088	0.0005
Mercury	85355-05-17 19:12 G	32896470.16	32896470.30	32896470.44	0.0088	0.0012
Mercury	85355-08-13 20:39 G	32896558.23	32896558.36	32896558.50	0.0088	0.0020
Mercury	85355-11-09 22:20 G	32896646.29	32896646.43	32896646.56	0.0088	0.0027
Mercury	85356-02-05 23:46 G	32896734.36	32896734.49	32896734.62	0.0088	0.0035
Mercury	85356-05-04 01:12 G	32896822.43	32896822.55	32896822.68	0.0088	0.0042
Mercury	85356-07-31 02:39 G	32896910.50	32896910.61	32896910.73	0.0088	0.0050
Mercury	85356-10-27 04:20 G	32896998.57	32896998.68	32896998.79	0.0088	0.0057

Mercury	85357-01-23 05:46 G	32897086.65	32897086.74	32897086.84	0.0088	0.0065
Mercury	85357-04-21 06:58 G	32897174.73	32897174.79	32897174.89	0.0088	0.0073
Mercury	85357-07-18 08:39 G	32897262.82	32897262.86	32897262.93	0.0088	0.0080
Mercury	85357-10-14 10:20 G	32897350.93	32897350.93	32897350.95	0.0088	0.0087
Mars	85366-03-30 22:05 G	32900440.11	32900440.42	32900440.75	0.0088	0.0019
Venus	85397-07-12 19:41 G	32911867.26	32911867.32	32911867.42	0.0089	0.0082
Venus	85398-02-23 08:39 G	32912092.75	32912092.86	32912093.00	0.0089	0.0072
Venus	85398-10-06 21:22 G	32912318.25	32912318.39	32912318.56	0.0089	0.0063
Venus	85399-05-20 10:05 G	32912543.76	32912543.92	32912544.12	0.0089	0.0053
Venus	85399-12-31 23:03 G	32912769.28	32912769.46	32912769.66	0.0089	0.0043
Venus	85400-08-14 12:15 G	32912994.81	32912995.01	32912995.21	0.0089	0.0033
Venus	85401-03-28 00:44 G	32913220.33	32913220.53	32913220.75	0.0089	0.0024
Venus	85401-11-08 13:41 G	32913445.86	32913446.07	32913446.29	0.0089	0.0014
Venus	85402-06-22 02:39 G	32913671.39	32913671.61	32913671.83	0.0089	0.0004
Venus	85403-02-02 15:22 G	32913896.92	32913897.14	32913897.36	0.0089	0.0006
Venus	85403-09-16 04:20 G	32914122.47	32914122.68	32914122.90	0.0089	0.0016
Venus	85404-04-28 16:48 G	32914348.01	32914348.20	32914348.42	0.0089	0.0026
Venus	85404-12-10 05:46 G	32914573.55	32914573.74	32914573.95	0.0089	0.0035
Venus	85405-07-23 18:15 G	32914799.09	32914799.26	32914799.46	0.0089	0.0045
Venus	85406-03-06 06:58 G	32915024.64	32915024.79	32915024.98	0.0089	0.0055
Venus	85406-10-17 20:10 G	32915250.19	32915250.34	32915250.49	0.0089	0.0065
Venus	85407-05-31 08:39 G	32915475.75	32915475.86	32915475.99	0.0089	0.0074
Venus	85408-01-11 21:08 G	32915701.33	32915701.38	32915701.47	0.0089	0.0084
Moon	85413-12-20 06:00 G	32917870.60	32917870.75	32917870.93	0.0089	0.0066
Earth	85413-12-20 06:29 G	32917870.62	32917870.77	32917870.94	0.0089	0.0070 *
Moon	85414-12-22 17:17 G	32918238.03	32918238.22	32918238.45	0.0089	0.0054
Earth	85414-12-22 18:29 G	32918238.06	32918238.27	32918238.49	0.0089	0.0049 *
Earth	85415-12-25 06:29 G	32918605.53	32918605.77	32918606.02	0.0089	0.0028
Moon	85415-12-25 08:39 G	32918605.63	32918605.86	32918606.11	0.0089	0.0024 *
Moon	85416-12-26 15:36 G	32918972.90	32918973.15	32918973.42	0.0089	0.0011



Earth	85416-12-26 18:44 G	32918973.02	32918973.28	32918973.53	0.0089	0.0007	*
Earth	85417-12-29 06:15 G	32919340.52	32919340.76	32919341.02	0.0089	0.0015	
Moon	85417-12-29 09:51 G	32919340.67	32919340.91	32919341.17	0.0089	0.0020	*
Moon	85418-12-31 14:39 G	32919707.88	32919708.11	32919708.36	0.0089	0.0031	
Earth	85418-12-31 18:00 G	32919708.03	32919708.25	32919708.50	0.0089	0.0036	*
Earth	85420-01-03 05:32 G	32920075.55	32920075.73	32920075.94	0.0089	0.0057	
Moon	85420-01-03 09:08 G	32920075.69	32920075.88	32920076.07	0.0089	0.0061	*
Moon	85421-01-04 14:39 G	32920442.99	32920443.11	32920443.27	0.0089	0.0073	
Earth	85421-01-04 17:03 G	32920443.11	32920443.21	32920443.36	0.0089	0.0078	*
Mercury	85435-03-28 21:51 G	32925639.41	32925639.41	32925639.43	0.0090	0.0090	
Mercury	85435-06-25 01:12 G	32925727.47	32925727.55	32925727.64	0.0090	0.0079	
Mercury	85435-09-21 04:05 G	32925815.57	32925815.67	32925815.80	0.0090	0.0069	
Mercury	85435-12-18 07:41 G	32925903.68	32925903.82	32925903.96	0.0090	0.0058	
Mercury	85436-03-15 10:34 G	32925991.80	32925991.94	32925992.11	0.0090	0.0048	
Mercury	85436-06-11 13:41 G	32926079.92	32926080.07	32926080.25	0.0090	0.0038	
Mercury	85436-09-07 17:03 G	32926168.04	32926168.21	32926168.39	0.0090	0.0027	
Mercury	85436-12-04 20:10 G	32926256.17	32926256.34	32926256.52	0.0090	0.0017	
Mercury	85437-03-02 23:17 G	32926344.29	32926344.47	32926344.66	0.0090	0.0007	
Mercury	85437-05-30 02:24 G	32926432.42	32926432.60	32926432.78	0.0090	0.0004	
Mercury	85437-08-26 05:32 G	32926520.55	32926520.73	32926520.91	0.0090	0.0014	
Mercury	85437-11-22 08:39 G	32926608.69	32926608.86	32926609.03	0.0090	0.0024	
Mercury	85438-02-18 11:46 G	32926696.82	32926696.99	32926697.16	0.0090	0.0034	
Mercury	85438-05-17 14:24 G	32926784.96	32926785.10	32926785.27	0.0090	0.0045	
Mercury	85438-08-13 17:32 G	32926873.10	32926873.23	32926873.39	0.0090	0.0055	
Mercury	85438-11-09 20:24 G	32926961.25	32926961.35	32926961.49	0.0090	0.0065	
Mercury	85439-02-05 23:32 G	32927049.40	32927049.48	32927049.59	0.0090	0.0075	
Mercury	85439-05-05 02:53 G	32927137.56	32927137.62	32927137.68	0.0090	0.0084	
Mars	85447-12-14 12:44 G	32930282.73	32930283.03	32930283.33	0.0090	0.0016	
Venus	85478-06-04 09:36 G	32941412.85	32941412.90	32941412.98	0.0089	0.0085	
Venus	85479-01-15 23:03 G	32941638.35	32941638.46	32941638.58	0.0089	0.0075	

Venus	85479-08-29 12:00 G	32941863.87	32941864.00	32941864.17	0.0089	0.0066
Venus	85480-04-11 01:27 G	32942089.40	32942089.56	32942089.75	0.0089	0.0056
Venus	85480-11-22 14:53 G	32942314.94	32942315.12	32942315.31	0.0089	0.0046
Venus	85481-07-06 04:05 G	32942540.47	32942540.67	32942540.88	0.0089	0.0036
Venus	85482-02-16 17:17 G	32942766.02	32942766.22	32942766.44	0.0089	0.0026
Venus	85482-09-30 06:44 G	32942991.56	32942991.78	32942992.00	0.0089	0.0016
Venus	85483-05-13 19:56 G	32943217.11	32943217.33	32943217.55	0.0088	0.0007
Venus	85483-12-25 09:08 G	32943442.66	32943442.88	32943443.10	0.0088	0.0003
Venus	85484-08-06 22:05 G	32943668.21	32943668.42	32943668.65	0.0088	0.0014
Venus	85485-03-20 11:17 G	32943893.77	32943893.97	32943894.20	0.0088	0.0024
Venus	85485-11-01 00:44 G	32944119.33	32944119.53	32944119.74	0.0088	0.0033
Venus	85486-06-14 13:41 G	32944344.89	32944345.07	32944345.28	0.0088	0.0043
Venus	85487-01-26 02:53 G	32944570.46	32944570.62	32944570.81	0.0088	0.0053
Venus	85487-09-08 15:51 G	32944796.03	32944796.16	32944796.34	0.0088	0.0063
Venus	85488-04-21 05:32 G	32945021.61	32945021.73	32945021.87	0.0088	0.0072
Venus	85488-12-02 18:29 G	32945247.21	32945247.27	32945247.38	0.0088	0.0082
Jupiter	85491-09-09 16:48 G	32946257.72	32946258.20	32946258.74	0.0088	0.0025
Moon	85494-06-15 19:12 G	32947268.24	32947268.30	32947268.43	0.0088	0.0082
Earth	85494-06-15 19:41 G	32947268.26	32947268.32	32947268.42	0.0088	0.0083 *
Earth	85495-06-18 06:58 G	32947635.64	32947635.79	32947636.00	0.0088	0.0064
Moon	85495-06-18 08:10 G	32947635.69	32947635.84	32947636.03	0.0088	0.0065 *
Moon	85496-06-19 15:36 G	32948002.94	32948003.15	32948003.41	0.0088	0.0042
Earth	85496-06-19 18:29 G	32948003.06	32948003.27	32948003.51	0.0088	0.0043 *
Earth	85497-06-22 06:00 G	32948370.51	32948370.75	32948371.01	0.0088	0.0023
Moon	85497-06-22 09:08 G	32948370.64	32948370.88	32948371.13	0.0088	0.0024 *
Moon	85498-06-24 14:10 G	32948737.83	32948738.09	32948738.35	0.0088	0.0001
Earth	85498-06-24 17:46 G	32948737.98	32948738.24	32948738.50	0.0088	0.0002 *
Earth	85499-06-27 04:48 G	32949105.46	32949105.70	32949105.97	0.0088	0.0018
Moon	85499-06-27 08:39 G	32949105.60	32949105.86	32949106.12	0.0088	0.0016 *
Moon	85500-06-29 13:27 G	32949472.85	32949473.06	32949473.30	0.0088	0.0040

Earth	85500-06-29 16:20 G	32949472.96	32949473.18	32949473.43	0.0088	0.0038	*
Earth	85501-07-02 03:51 G	32949840.48	32949840.66	32949840.86	0.0088	0.0058	
Moon	85501-07-02 06:29 G	32949840.57	32949840.77	32949840.98	0.0088	0.0055	*
Moon	85502-07-04 14:53 G	32950208.03	32950208.12	32950208.23	0.0088	0.0080	
Earth	85502-07-04 15:36 G	32950208.04	32950208.15	32950208.27	0.0088	0.0078	*
Mercury	85516-09-28 21:51 G	32955408.41	32955408.41	32955408.45	0.0088	0.0087	
Mercury	85516-12-25 23:46 G	32955496.43	32955496.49	32955496.54	0.0088	0.0079	
Mercury	85517-03-24 00:58 G	32955584.47	32955584.54	32955584.62	0.0088	0.0072	
Mercury	85517-06-20 02:24 G	32955672.52	32955672.60	32955672.70	0.0088	0.0065	
Mercury	85517-09-16 03:51 G	32955760.57	32955760.66	32955760.77	0.0088	0.0058	
Mercury	85517-12-13 05:17 G	32955848.62	32955848.72	32955848.84	0.0088	0.0051	
Mercury	85518-03-11 06:58 G	32955936.67	32955936.79	32955936.91	0.0088	0.0043	
Mercury	85518-06-07 08:24 G	32956024.72	32956024.85	32956024.98	0.0088	0.0036	
Mercury	85518-09-03 09:51 G	32956112.78	32956112.91	32956113.04	0.0088	0.0028	
Mercury	85518-11-30 11:17 G	32956200.84	32956200.97	32956201.11	0.0088	0.0021	
Mercury	85519-02-26 12:44 G	32956288.90	32956289.03	32956289.17	0.0088	0.0014	
Mercury	85519-05-25 14:24 G	32956376.96	32956377.10	32956377.24	0.0088	0.0007	
Mercury	85519-08-21 15:51 G	32956465.02	32956465.16	32956465.30	0.0088	0.0002	
Mercury	85519-11-17 17:17 G	32956553.08	32956553.22	32956553.36	0.0088	0.0009	
Mercury	85520-02-13 18:44 G	32956641.14	32956641.28	32956641.42	0.0088	0.0016	
Mercury	85520-05-11 20:10 G	32956729.21	32956729.34	32956729.48	0.0088	0.0024	
Mercury	85520-08-07 21:51 G	32956817.28	32956817.41	32956817.54	0.0088	0.0031	
Mercury	85520-11-03 23:03 G	32956905.34	32956905.46	32956905.60	0.0088	0.0039	
Mercury	85521-01-31 00:44 G	32956993.41	32956993.53	32956993.65	0.0088	0.0046	
Mercury	85521-04-29 02:10 G	32957081.49	32957081.59	32957081.71	0.0088	0.0054	
Mercury	85521-07-26 03:51 G	32957169.56	32957169.66	32957169.76	0.0088	0.0061	
Mercury	85521-10-22 05:03 G	32957257.64	32957257.71	32957257.81	0.0088	0.0069	
Mercury	85522-01-18 06:58 G	32957345.72	32957345.79	32957345.86	0.0088	0.0076	
Mercury	85522-04-16 08:10 G	32957433.81	32957433.84	32957433.89	0.0088	0.0084	
Mars	85529-11-14 04:05 G	32960202.40	32960202.67	32960203.00	0.0088	0.0033	

Saturn	85532-01-14 20:24 G	32960993.91	32960994.35	32960994.95	0.0088	0.0062
Venus	85561-10-16 06:44 G	32971861.74	32971861.78	32971861.87	0.0089	0.0085
Venus	85562-05-29 19:41 G	32972087.22	32972087.32	32972087.45	0.0089	0.0075
Venus	85563-01-10 08:39 G	32972312.72	32972312.86	32972313.02	0.0089	0.0065
Venus	85563-08-23 21:22 G	32972538.24	32972538.39	32972538.58	0.0089	0.0056
Venus	85564-04-05 10:20 G	32972763.75	32972763.93	32972764.13	0.0089	0.0046
Venus	85564-11-16 23:03 G	32972989.27	32972989.46	32972989.67	0.0089	0.0036
Venus	85565-06-30 12:00 G	32973214.79	32973215.00	32973215.21	0.0089	0.0026
Venus	85566-02-11 00:44 G	32973440.32	32973440.53	32973440.75	0.0089	0.0016
Venus	85566-09-24 13:41 G	32973665.86	32973666.07	32973666.29	0.0089	0.0007
Venus	85567-05-08 02:39 G	32973891.39	32973891.61	32973891.83	0.0089	0.0003
Venus	85567-12-19 15:22 G	32974116.93	32974117.14	32974117.36	0.0089	0.0013
Venus	85568-08-01 04:05 G	32974342.47	32974342.67	32974342.89	0.0089	0.0023
Venus	85569-03-14 16:48 G	32974568.01	32974568.20	32974568.41	0.0089	0.0033
Venus	85569-10-26 05:32 G	32974793.56	32974793.73	32974793.94	0.0089	0.0043
Venus	85570-06-08 18:44 G	32975019.10	32975019.28	32975019.45	0.0089	0.0052
Venus	85571-01-20 07:12 G	32975244.66	32975244.80	32975244.97	0.0089	0.0062
Venus	85571-09-02 19:56 G	32975470.22	32975470.33	32975470.48	0.0089	0.0072
Venus	85572-04-15 09:08 G	32975695.80	32975695.88	32975695.97	0.0089	0.0082
Moon	85577-12-20 14:24 G	32977770.98	32977771.10	32977771.27	0.0089	0.0075
Earth	85577-12-20 16:05 G	32977771.05	32977771.17	32977771.32	0.0089	0.0076 *
Earth	85578-12-23 04:20 G	32978138.48	32978138.68	32978138.88	0.0089	0.0055
Moon	85578-12-23 06:15 G	32978138.59	32978138.76	32978138.98	0.0089	0.0056 *
Moon	85579-12-25 12:29 G	32978505.79	32978506.02	32978506.27	0.0089	0.0033
Earth	85579-12-25 15:51 G	32978505.94	32978506.16	32978506.42	0.0089	0.0034 *
Earth	85580-12-27 04:05 G	32978873.42	32978873.67	32978873.93	0.0089	0.0013
Moon	85580-12-27 07:27 G	32978873.57	32978873.81	32978874.07	0.0089	0.0014 *
Moon	85581-12-29 12:29 G	32979240.77	32979241.02	32979241.28	0.0089	0.0008
Earth	85581-12-29 16:05 G	32979240.92	32979241.17	32979241.43	0.0089	0.0009 *
Earth	85583-01-01 03:36 G	32979608.42	32979608.65	32979608.91	0.0089	0.0029

Moon	85583-01-01 06:29 G	32979608.53	32979608.77	32979609.03	0.0089	0.0029 *
Moon	85584-01-03 13:41 G	32979975.87	32979976.07	32979976.28	0.0089	0.0050
Earth	85584-01-03 15:51 G	32979975.95	32979976.16	32979976.37	0.0089	0.0050 *
Earth	85585-01-05 03:22 G	32980343.49	32980343.64	32980343.80	0.0089	0.0071
Moon	85585-01-05 04:05 G	32980343.54	32980343.67	32980343.86	0.0089	0.0072 *
Mercury	85599-12-24 20:39 G	32985810.31	32985810.36	32985810.44	0.0090	0.0084
Mercury	85600-03-21 23:46 G	32985898.40	32985898.49	32985898.61	0.0090	0.0074
Mercury	85600-06-18 03:08 G	32985986.51	32985986.63	32985986.77	0.0090	0.0063
Mercury	85600-09-14 06:15 G	32986074.62	32986074.76	32986074.92	0.0090	0.0053
Mercury	85600-12-11 09:36 G	32986162.74	32986162.90	32986163.06	0.0090	0.0042
Mercury	85601-03-09 12:44 G	32986250.86	32986251.03	32986251.20	0.0090	0.0032
Mercury	85601-06-05 15:51 G	32986338.99	32986339.16	32986339.34	0.0090	0.0022
Mercury	85601-09-01 18:58 G	32986427.12	32986427.29	32986427.48	0.0090	0.0011
Mercury	85601-11-28 22:20 G	32986515.24	32986515.43	32986515.61	0.0090	0.0002
Mercury	85602-02-25 01:12 G	32986603.38	32986603.55	32986603.74	0.0090	0.0010
Mercury	85602-05-24 04:20 G	32986691.51	32986691.68	32986691.86	0.0090	0.0020
Mercury	85602-08-20 07:27 G	32986779.64	32986779.81	32986779.98	0.0090	0.0030
Mercury	85602-11-16 10:20 G	32986867.78	32986867.93	32986868.10	0.0090	0.0040
Mercury	85603-02-12 13:27 G	32986955.92	32986956.06	32986956.22	0.0090	0.0050
Mercury	85603-05-11 16:34 G	32987044.06	32987044.19	32987044.33	0.0090	0.0060
Mercury	85603-08-07 19:27 G	32987132.21	32987132.31	32987132.43	0.0090	0.0070
Mercury	85603-11-03 22:34 G	32987220.37	32987220.44	32987220.53	0.0090	0.0080
Mars	85611-07-30 12:00 G	32990045.73	32990046.00	32990046.29	0.0090	0.0034
Venus	85642-09-06 19:56 G	33001407.32	33001407.33	33001407.38	0.0089	0.0088
Venus	85643-04-20 09:22 G	33001632.80	33001632.89	33001633.01	0.0089	0.0078
Venus	85643-12-01 22:48 G	33001858.31	33001858.45	33001858.59	0.0089	0.0068
Venus	85644-07-14 11:32 G	33002083.84	33002083.98	33002084.17	0.0089	0.0059
Venus	85645-02-25 01:12 G	33002309.38	33002309.55	33002309.75	0.0089	0.0049
Venus	85645-10-08 14:24 G	33002534.92	33002535.10	33002535.31	0.0089	0.0039
Venus	85646-05-22 03:51 G	33002760.46	33002760.66	33002760.88	0.0089	0.0029

Venus	85647-01-02 17:17 G	33002986.00	33002986.22	33002986.43	0.0089	0.0019
Venus	85647-08-16 06:15 G	33003211.55	33003211.76	33003211.99	0.0088	0.0010
Venus	85648-03-28 19:56 G	33003437.10	33003437.33	33003437.55	0.0088	0.0002
Venus	85648-11-09 08:53 G	33003662.66	33003662.87	33003663.10	0.0088	0.0011
Venus	85649-06-22 22:05 G	33003888.21	33003888.42	33003888.64	0.0088	0.0021
Venus	85650-02-03 11:17 G	33004113.77	33004113.97	33004114.19	0.0088	0.0030
Venus	85650-09-17 00:15 G	33004339.33	33004339.51	33004339.73	0.0088	0.0041
Venus	85651-04-30 13:27 G	33004564.90	33004565.06	33004565.26	0.0088	0.0051
Venus	85651-12-12 02:53 G	33004790.47	33004790.62	33004790.79	0.0088	0.0060
Venus	85652-07-24 15:51 G	33005016.04	33005016.16	33005016.32	0.0088	0.0070
Venus	85653-03-07 05:03 G	33005241.64	33005241.71	33005241.83	0.0088	0.0080
Moon	85658-06-16 06:44 G	33007168.75	33007168.78	33007168.88	0.0088	0.0085
Moon	85659-06-18 13:56 G	33007535.95	33007536.08	33007536.24	0.0088	0.0073
Earth	85659-06-18 16:20 G	33007536.05	33007536.18	33007536.37	0.0088	0.0069 *
Earth	85660-06-20 03:51 G	33007903.46	33007903.66	33007903.89	0.0088	0.0049
Moon	85660-06-20 07:27 G	33007903.61	33007903.81	33007904.05	0.0088	0.0044 *
Moon	85661-06-22 12:00 G	33008270.77	33008271.00	33008271.25	0.0088	0.0033
Earth	85661-06-22 15:36 G	33008270.91	33008271.15	33008271.40	0.0088	0.0029 *
Earth	85662-06-25 03:08 G	33008638.37	33008638.63	33008638.89	0.0088	0.0008
Moon	85662-06-25 06:44 G	33008638.52	33008638.78	33008639.04	0.0088	0.0004 *
Moon	85663-06-27 12:00 G	33009005.75	33009006.00	33009006.25	0.0088	0.0007
Earth	85663-06-27 14:24 G	33009005.85	33009006.10	33009006.37	0.0088	0.0012 *
Earth	85664-06-29 01:27 G	33009373.34	33009373.56	33009373.82	0.0088	0.0032
Moon	85664-06-29 03:08 G	33009373.40	33009373.63	33009373.89	0.0088	0.0036 *
Moon	85665-07-01 12:15 G	33009740.82	33009741.01	33009741.24	0.0088	0.0048
Earth	85665-07-01 12:58 G	33009740.85	33009741.04	33009741.27	0.0088	0.0052 *
Moon	85666-07-03 23:32 G	33010108.36	33010108.48	33010108.63	0.0088	0.0076
Earth	85666-07-04 00:29 G	33010108.39	33010108.52	33010108.69	0.0088	0.0072 *
Mercury	85681-06-25 21:36 G	33015579.37	33015579.40	33015579.46	0.0088	0.0083
Mercury	85681-09-21 23:17 G	33015667.40	33015667.47	33015667.54	0.0088	0.0075

Mercury	85681-12-19 00:44 G	33015755.45	33015755.53	33015755.62	0.0088	0.0068
Mercury	85682-03-17 02:10 G	33015843.50	33015843.59	33015843.69	0.0088	0.0061
Mercury	85682-06-13 03:22 G	33015931.55	33015931.64	33015931.76	0.0088	0.0054
Mercury	85682-09-09 05:17 G	33016019.60	33016019.72	33016019.83	0.0088	0.0046
Mercury	85682-12-06 06:29 G	33016107.65	33016107.77	33016107.90	0.0088	0.0039
Mercury	85683-03-04 07:56 G	33016195.71	33016195.83	33016195.97	0.0088	0.0032
Mercury	85683-05-31 09:36 G	33016283.77	33016283.90	33016284.03	0.0088	0.0024
Mercury	85683-08-27 11:03 G	33016371.82	33016371.96	33016372.10	0.0088	0.0017
Mercury	85683-11-23 12:29 G	33016459.88	33016460.02	33016460.16	0.0088	0.0009
Mercury	85684-02-19 13:56 G	33016547.94	33016548.08	33016548.22	0.0088	0.0003
Mercury	85684-05-17 15:22 G	33016636.01	33016636.14	33016636.28	0.0088	0.0006
Mercury	85684-08-13 17:03 G	33016724.07	33016724.21	33016724.35	0.0088	0.0013
Mercury	85684-11-09 18:15 G	33016812.13	33016812.26	33016812.41	0.0088	0.0021
Mercury	85685-02-05 19:56 G	33016900.20	33016900.33	33016900.46	0.0088	0.0028
Mercury	85685-05-04 21:22 G	33016988.27	33016988.39	33016988.52	0.0088	0.0035
Mercury	85685-07-31 22:48 G	33017076.33	33017076.45	33017076.58	0.0088	0.0043
Mercury	85685-10-28 00:15 G	33017164.41	33017164.51	33017164.63	0.0088	0.0051
Mercury	85686-01-24 01:56 G	33017252.48	33017252.58	33017252.69	0.0088	0.0058
Mercury	85686-04-22 03:08 G	33017340.55	33017340.63	33017340.74	0.0088	0.0066
Mercury	85686-07-19 04:48 G	33017428.63	33017428.70	33017428.79	0.0088	0.0073
Mercury	85686-10-15 06:15 G	33017516.72	33017516.76	33017516.83	0.0088	0.0081
Mars	85693-06-28 11:32 G	33019964.90	33019964.98	33019965.10	0.0088	0.0083
Mars	85695-05-24 17:17 G	33020659.99	33020660.22	33020660.52	0.0088	0.0051
Venus	85726-01-18 18:29 G	33031856.25	33031856.27	33031856.33	0.0089	0.0087
Venus	85726-09-01 07:12 G	33032081.72	33032081.80	33032081.93	0.0089	0.0078
Venus	85727-04-14 20:10 G	33032307.22	33032307.34	33032307.50	0.0089	0.0068
Venus	85727-11-26 09:08 G	33032532.72	33032532.88	33032533.05	0.0089	0.0058
Venus	85728-07-08 22:05 G	33032758.23	33032758.42	33032758.60	0.0089	0.0048
Venus	85729-02-19 10:20 G	33032983.75	33032983.93	33032984.15	0.0089	0.0039
Venus	85729-10-02 23:32 G	33033209.28	33033209.48	33033209.69	0.0089	0.0029

Venus	85730-05-16 12:15 G	33033434.80	33033435.01	33033435.23	0.0089	0.0019
Venus	85730-12-28 01:12 G	33033660.33	33033660.55	33033660.77	0.0089	0.0009
Venus	85731-08-10 13:56 G	33033885.87	33033886.08	33033886.30	0.0089	0.0002
Venus	85732-03-23 02:39 G	33034111.40	33034111.61	33034111.83	0.0089	0.0011
Venus	85732-11-03 15:22 G	33034336.94	33034337.14	33034337.36	0.0089	0.0021
Venus	85733-06-17 04:20 G	33034562.48	33034562.68	33034562.89	0.0089	0.0030
Venus	85734-01-28 17:03 G	33034788.02	33034788.21	33034788.41	0.0089	0.0040
Venus	85734-09-11 05:46 G	33035013.58	33035013.74	33035013.94	0.0089	0.0050
Venus	85735-04-24 18:29 G	33035239.13	33035239.27	33035239.45	0.0089	0.0060
Venus	85735-12-06 07:12 G	33035464.69	33035464.80	33035464.96	0.0089	0.0070
Venus	85736-07-18 20:10 G	33035690.26	33035690.34	33035690.45	0.0089	0.0079
Venus	85737-03-01 09:08 G	33035915.88	33035915.88	33035915.89	0.0089	0.0089
Earth	85741-12-21 01:41 G	33037671.49	33037671.57	33037671.69	0.0089	0.0082
Moon	85741-12-21 04:48 G	33037671.64	33037671.70	33037671.78	0.0089	0.0086 *
Moon	85742-12-23 10:05 G	33038038.74	33038038.92	33038039.15	0.0089	0.0056
Earth	85742-12-23 13:27 G	33038038.90	33038039.06	33038039.27	0.0089	0.0061 *
Earth	85743-12-26 01:27 G	33038406.35	33038406.56	33038406.81	0.0089	0.0040
Moon	85743-12-26 05:32 G	33038406.51	33038406.73	33038406.96	0.0089	0.0045 *
Moon	85744-12-27 11:03 G	33038773.71	33038773.96	33038774.20	0.0089	0.0015
Earth	85744-12-27 13:41 G	33038773.83	33038774.07	33038774.33	0.0089	0.0020 *
Earth	85745-12-30 01:41 G	33039141.31	33039141.57	33039141.83	0.0089	0.0002
Moon	85745-12-30 04:34 G	33039141.43	33039141.69	33039141.95	0.0089	0.0003 *
Moon	85747-01-01 12:15 G	33039508.78	33039509.01	33039509.25	0.0089	0.0027
Earth	85747-01-01 13:41 G	33039508.82	33039509.07	33039509.32	0.0089	0.0023 *
Moon	85748-01-04 01:27 G	33039876.34	33039876.56	33039876.82	0.0089	0.0040
Earth	85748-01-04 01:27 G	33039876.35	33039876.56	33039876.79	0.0089	0.0044 *
Earth	85749-01-05 13:12 G	33040243.89	33040244.05	33040244.24	0.0089	0.0065
Moon	85749-01-05 13:41 G	33040243.94	33040244.07	33040244.25	0.0089	0.0070 *
Moon	85750-01-07 22:34 G	33040611.35	33040611.44	33040611.58	0.0089	0.0081
Earth	85750-01-08 00:44 G	33040611.49	33040611.53	33040611.64	0.0089	0.0086 *



Mercury	85764-06-24 16:34 G	33045893.16	33045893.19	33045893.23	0.0090	0.0088
Mercury	85764-09-20 19:27 G	33045981.24	33045981.31	33045981.42	0.0090	0.0078
Mercury	85764-12-17 23:03 G	33046069.34	33046069.46	33046069.58	0.0090	0.0067
Mercury	85765-03-16 01:56 G	33046157.46	33046157.58	33046157.74	0.0090	0.0057
Mercury	85765-06-12 05:32 G	33046245.57	33046245.73	33046245.89	0.0090	0.0046
Mercury	85765-09-08 08:39 G	33046333.70	33046333.86	33046334.03	0.0090	0.0036
Mercury	85765-12-05 11:46 G	33046421.82	33046421.99	33046422.17	0.0090	0.0026
Mercury	85766-03-03 14:53 G	33046509.95	33046510.12	33046510.30	0.0090	0.0015
Mercury	85766-05-30 18:00 G	33046598.07	33046598.25	33046598.44	0.0090	0.0006
Mercury	85766-08-26 21:08 G	33046686.21	33046686.38	33046686.57	0.0090	0.0006
Mercury	85766-11-23 00:15 G	33046774.34	33046774.51	33046774.69	0.0090	0.0016
Mercury	85767-02-19 03:22 G	33046862.47	33046862.64	33046862.82	0.0090	0.0026
Mercury	85767-05-18 06:29 G	33046950.61	33046950.77	33046950.94	0.0090	0.0036
Mercury	85767-08-14 09:22 G	33047038.75	33047038.89	33047039.06	0.0090	0.0046
Mercury	85767-11-10 12:29 G	33047126.89	33047127.02	33047127.17	0.0090	0.0056
Mercury	85768-02-06 15:36 G	33047215.04	33047215.15	33047215.28	0.0090	0.0066
Mercury	85768-05-04 18:29 G	33047303.19	33047303.27	33047303.38	0.0090	0.0076
Mercury	85768-07-31 21:36 G	33047391.36	33047391.40	33047391.46	0.0090	0.0086
Mars	85775-03-15 14:10 G	33049808.99	33049809.09	33049809.21	0.0090	0.0083
Mars	85777-02-06 21:08 G	33050503.16	33050503.38	33050503.67	0.0090	0.0048
Venus	85807-07-24 19:41 G	33061627.25	33061627.32	33061627.43	0.0089	0.0081
Venus	85808-03-06 09:08 G	33061852.76	33061852.88	33061853.03	0.0089	0.0071
Venus	85808-10-17 22:34 G	33062078.29	33062078.44	33062078.61	0.0089	0.0061
Venus	85809-05-31 11:17 G	33062303.81	33062303.97	33062304.18	0.0089	0.0052
Venus	85810-01-12 00:44 G	33062529.35	33062529.53	33062529.74	0.0089	0.0042
Venus	85810-08-25 14:10 G	33062754.89	33062755.09	33062755.31	0.0089	0.0032
Venus	85811-04-08 03:36 G	33062980.44	33062980.65	33062980.87	0.0089	0.0022
Venus	85811-11-19 17:03 G	33063205.99	33063206.21	33063206.43	0.0088	0.0012
Venus	85812-07-02 06:15 G	33063431.54	33063431.76	33063431.98	0.0088	0.0002
Venus	85813-02-12 19:27 G	33063657.09	33063657.31	33063657.54	0.0088	0.0008

Venus	85813-09-26 08:39 G	33063882.65	33063882.86	33063883.09	0.0088	0.0018
Venus	85814-05-09 21:51 G	33064108.21	33064108.41	33064108.63	0.0088	0.0028
Venus	85814-12-21 11:17 G	33064333.77	33064333.97	33064334.17	0.0088	0.0038
Venus	85815-08-04 00:15 G	33064559.34	33064559.51	33064559.71	0.0088	0.0048
Venus	85816-03-16 13:27 G	33064784.91	33064785.06	33064785.25	0.0088	0.0058
Venus	85816-10-28 02:39 G	33065010.49	33065010.61	33065010.77	0.0088	0.0068
Venus	85817-06-10 16:20 G	33065236.07	33065236.18	33065236.29	0.0088	0.0077
Venus	85818-01-22 05:03 G	33065461.69	33065461.71	33065461.77	0.0088	0.0087
Earth	85823-06-20 02:24 G	33067436.48	33067436.60	33067436.76	0.0088	0.0074
Moon	85823-06-20 06:15 G	33067436.62	33067436.76	33067436.90	0.0088	0.0074 *
Moon	85824-06-21 10:34 G	33067803.74	33067803.94	33067804.14	0.0088	0.0054
Earth	85824-06-21 13:56 G	33067803.90	33067804.08	33067804.30	0.0088	0.0055 *
Earth	85825-06-24 01:41 G	33068171.34	33068171.57	33068171.82	0.0088	0.0034
Moon	85825-06-24 04:20 G	33068171.46	33068171.68	33068171.94	0.0088	0.0034 *
Moon	85826-06-26 10:48 G	33068538.71	33068538.95	33068539.21	0.0088	0.0015
Earth	85826-06-26 13:12 G	33068538.80	33068539.05	33068539.31	0.0088	0.0014 *
Earth	85827-06-29 00:44 G	33068906.27	33068906.53	33068906.79	0.0088	0.0006
Moon	85827-06-29 01:56 G	33068906.31	33068906.58	33068906.85	0.0088	0.0007 *
Earth	85828-06-30 12:00 G	33069273.76	33069274.00	33069274.25	0.0088	0.0026
Moon	85828-06-30 12:15 G	33069273.78	33069274.01	33069274.26	0.0088	0.0026 *
Moon	85829-07-02 22:20 G	33069641.21	33069641.43	33069641.66	0.0088	0.0047
Earth	85829-07-02 23:32 G	33069641.26	33069641.48	33069641.71	0.0088	0.0046 *
Earth	85830-07-05 10:48 G	33070008.79	33070008.95	33070009.13	0.0088	0.0066
Moon	85830-07-05 13:12 G	33070008.89	33070009.05	33070009.23	0.0088	0.0065 *
Moon	85831-07-07 18:44 G	33070376.25	33070376.28	33070376.35	0.0088	0.0086
Earth	85831-07-07 22:05 G	33070376.39	33070376.42	33070376.49	0.0088	0.0086
Mercury	85845-12-26 19:56 G	33075662.31	33075662.33	33075662.37	0.0088	0.0086
Mercury	85846-03-24 21:36 G	33075750.34	33075750.40	33075750.46	0.0088	0.0078
Mercury	85846-06-20 23:03 G	33075838.38	33075838.46	33075838.54	0.0088	0.0071
Mercury	85846-09-17 00:15 G	33075926.43	33075926.51	33075926.62	0.0088	0.0064

Mercury	85846-12-14 01:41 G	33076014.48	33076014.57	33076014.69	0.0088	0.0057
Mercury	85847-03-12 03:08 G	33076102.53	33076102.63	33076102.76	0.0088	0.0050
Mercury	85847-06-08 04:48 G	33076190.58	33076190.70	33076190.82	0.0088	0.0042
Mercury	85847-09-04 06:15 G	33076278.64	33076278.76	33076278.89	0.0088	0.0035
Mercury	85847-12-01 07:41 G	33076366.69	33076366.82	33076366.96	0.0088	0.0027
Mercury	85848-02-27 09:08 G	33076454.75	33076454.88	33076455.02	0.0088	0.0020
Mercury	85848-05-25 10:34 G	33076542.81	33076542.94	33076543.08	0.0088	0.0013
Mercury	85848-08-21 12:15 G	33076630.87	33076631.01	33076631.15	0.0088	0.0005
Mercury	85848-11-17 13:41 G	33076718.93	33076719.07	33076719.21	0.0088	0.0002
Mercury	85849-02-13 15:08 G	33076806.99	33076807.13	33076807.27	0.0088	0.0010
Mercury	85849-05-12 16:34 G	33076895.06	33076895.19	33076895.33	0.0088	0.0017
Mercury	85849-08-08 18:00 G	33076983.12	33076983.25	33076983.39	0.0088	0.0025
Mercury	85849-11-04 19:41 G	33077071.19	33077071.32	33077071.45	0.0088	0.0032
Mercury	85850-01-31 20:53 G	33077159.25	33077159.37	33077159.50	0.0088	0.0040
Mercury	85850-04-29 22:34 G	33077247.32	33077247.44	33077247.56	0.0088	0.0047
Mercury	85850-07-27 00:00 G	33077335.40	33077335.50	33077335.62	0.0088	0.0055
Mercury	85850-10-23 01:41 G	33077423.47	33077423.57	33077423.67	0.0088	0.0062
Mercury	85851-01-19 02:53 G	33077511.55	33077511.62	33077511.72	0.0088	0.0070
Mercury	85851-04-17 04:48 G	33077599.63	33077599.70	33077599.76	0.0088	0.0077
Mercury	85851-07-14 06:00 G	33077687.73	33077687.75	33077687.79	0.0088	0.0085
Mars	85859-01-08 02:39 G	33080422.28	33080422.61	33080422.93	0.0088	0.0001
Venus	85890-12-04 18:58 G	33092076.21	33092076.29	33092076.40	0.0089	0.0080
Venus	85891-07-18 08:10 G	33092301.71	33092301.84	33092301.97	0.0089	0.0070
Venus	85892-02-28 20:39 G	33092527.22	33092527.36	33092527.53	0.0089	0.0061
Venus	85892-10-11 09:36 G	33092752.73	33092752.90	33092753.09	0.0089	0.0051
Venus	85893-05-24 22:20 G	33092978.25	33092978.43	33092978.64	0.0089	0.0041
Venus	85894-01-05 11:17 G	33093203.77	33093203.97	33093204.18	0.0089	0.0031
Venus	85894-08-19 00:15 G	33093429.30	33093429.51	33093429.72	0.0089	0.0021
Venus	85895-04-01 12:58 G	33093654.83	33093655.04	33093655.26	0.0089	0.0011
Venus	85895-11-13 01:41 G	33093880.36	33093880.57	33093880.79	0.0089	0.0002

Venus	85896-06-25 14:24 G	33094105.89	33094106.10	33094106.32	0.0089	0.0009
Venus	85897-02-06 03:22 G	33094331.42	33094331.64	33094331.85	0.0089	0.0018
Venus	85897-09-19 16:05 G	33094556.97	33094557.17	33094557.38	0.0089	0.0028
Venus	85898-05-03 04:48 G	33094782.51	33094782.70	33094782.91	0.0089	0.0038
Venus	85898-12-14 17:32 G	33095008.06	33095008.23	33095008.43	0.0089	0.0048
Venus	85899-07-28 06:00 G	33095233.61	33095233.75	33095233.94	0.0089	0.0058
Venus	85900-03-10 19:12 G	33095459.17	33095459.30	33095459.45	0.0089	0.0067
Venus	85900-10-22 07:56 G	33095684.74	33095684.83	33095684.95	0.0089	0.0077
Venus	85901-06-04 20:39 G	33095910.34	33095910.36	33095910.42	0.0089	0.0087
Earth	85905-12-22 11:46 G	33097571.97	33097571.99	33097572.08	0.0089	0.0087
Earth	85906-12-25 00:00 G	33097939.35	33097939.50	33097939.69	0.0089	0.0067
Moon	85906-12-25 03:22 G	33097939.49	33097939.64	33097939.84	0.0089	0.0065 *
Moon	85907-12-27 08:53 G	33098306.68	33098306.87	33098307.10	0.0089	0.0048
Earth	85907-12-27 12:29 G	33098306.80	33098307.02	33098307.24	0.0089	0.0046 *
Earth	85908-12-28 23:46 G	33098674.26	33098674.49	33098674.75	0.0089	0.0026
Moon	85908-12-29 01:56 G	33098674.33	33098674.58	33098674.84	0.0089	0.0023 *
Moon	85909-12-31 10:48 G	33099041.70	33099041.95	33099042.20	0.0089	0.0005
Earth	85909-12-31 12:00 G	33099041.75	33099042.00	33099042.26	0.0089	0.0004 *
Moon	85911-01-02 23:17 G	33099409.23	33099409.47	33099409.75	0.0089	0.0019
Earth	85911-01-02 23:46 G	33099409.24	33099409.49	33099409.75	0.0089	0.0017 *
Earth	85912-01-05 11:32 G	33099776.76	33099776.98	33099777.22	0.0089	0.0038
Moon	85912-01-05 13:12 G	33099776.83	33099777.05	33099777.28	0.0089	0.0036 *
Moon	85913-01-06 20:53 G	33100144.20	33100144.37	33100144.59	0.0089	0.0059
Earth	85913-01-06 23:03 G	33100144.29	33100144.46	33100144.68	0.0089	0.0059 *
Earth	85914-01-09 11:03 G	33100511.86	33100511.96	33100512.10	0.0089	0.0079
Moon	85914-01-09 14:24 G	33100511.99	33100512.10	33100512.24	0.0089	0.0078 *
Mercury	85929-03-23 15:22 G	33106064.08	33106064.14	33106064.23	0.0090	0.0082
Mercury	85929-06-19 18:58 G	33106152.18	33106152.29	33106152.40	0.0090	0.0071
Mercury	85929-09-15 21:51 G	33106240.29	33106240.41	33106240.56	0.0090	0.0061
Mercury	85929-12-13 01:27 G	33106328.41	33106328.56	33106328.71	0.0090	0.0050

Mercury	85930-03-11 04:34 G	33106416.53	33106416.69	33106416.86	0.0090	0.0040
Mercury	85930-06-07 07:41 G	33106504.65	33106504.82	33106505.00	0.0090	0.0029
Mercury	85930-09-03 11:03 G	33106592.78	33106592.96	33106593.14	0.0090	0.0019
Mercury	85930-11-30 14:10 G	33106680.91	33106681.09	33106681.27	0.0090	0.0009
Mercury	85931-02-26 17:17 G	33106769.04	33106769.22	33106769.40	0.0090	0.0002
Mercury	85931-05-25 20:24 G	33106857.17	33106857.35	33106857.53	0.0090	0.0012
Mercury	85931-08-21 23:32 G	33106945.31	33106945.48	33106945.66	0.0090	0.0022
Mercury	85931-11-18 02:24 G	33107033.44	33107033.60	33107033.78	0.0090	0.0033
Mercury	85932-02-14 05:32 G	33107121.58	33107121.73	33107121.90	0.0090	0.0043
Mercury	85932-05-12 08:24 G	33107209.72	33107209.85	33107210.01	0.0090	0.0053
Mercury	85932-08-08 11:32 G	33107297.87	33107297.98	33107298.12	0.0090	0.0063
Mercury	85932-11-04 14:39 G	33107386.02	33107386.11	33107386.23	0.0090	0.0073
Mercury	85933-01-31 17:32 G	33107474.18	33107474.23	33107474.32	0.0090	0.0083
Mars	85940-09-24 01:12 G	33110266.25	33110266.55	33110266.85	0.0090	0.0002
Venus	85971-10-27 07:12 G	33121621.74	33121621.80	33121621.89	0.0089	0.0083
Venus	85972-06-08 19:56 G	33121847.24	33121847.33	33121847.48	0.0089	0.0074
Venus	85973-01-20 09:22 G	33122072.75	33122072.89	33122073.06	0.0089	0.0064
Venus	85973-09-02 22:34 G	33122298.28	33122298.44	33122298.63	0.0089	0.0054
Venus	85974-04-16 12:00 G	33122523.82	33122524.00	33122524.20	0.0089	0.0044
Venus	85974-11-28 01:12 G	33122749.36	33122749.55	33122749.76	0.0089	0.0034
Venus	85975-07-11 14:39 G	33122974.90	33122975.11	33122975.32	0.0089	0.0024
Venus	85976-02-22 03:51 G	33123200.45	33123200.66	33123200.88	0.0089	0.0014
Venus	85976-10-04 17:17 G	33123426.00	33123426.22	33123426.44	0.0088	0.0004
Venus	85977-05-18 06:29 G	33123651.55	33123651.77	33123651.99	0.0088	0.0006
Venus	85977-12-29 19:41 G	33123877.10	33123877.32	33123877.54	0.0088	0.0016
Venus	85978-08-12 08:53 G	33124102.66	33124102.87	33124103.09	0.0088	0.0026
Venus	85979-03-25 22:05 G	33124328.23	33124328.42	33124328.63	0.0088	0.0036
Venus	85979-11-06 11:17 G	33124553.79	33124553.97	33124554.17	0.0088	0.0046
Venus	85980-06-19 00:15 G	33124779.36	33124779.51	33124779.70	0.0088	0.0056
Venus	85981-01-30 13:27 G	33125004.93	33125005.06	33125005.23	0.0088	0.0066

Venus	85981-09-13 03:08 G	33125230.52	33125230.63	33125230.75	0.0088	0.0075
Venus	85982-04-26 16:05 G	33125456.13	33125456.17	33125456.25	0.0088	0.0085
Moon	85987-06-20 09:08 G	33127336.77	33127336.88	33127337.03	0.0088	0.0075
Earth	85987-06-20 12:15 G	33127336.93	33127337.01	33127337.14	0.0088	0.0080 *
Earth	85988-06-21 23:32 G	33127704.32	33127704.48	33127704.70	0.0088	0.0060
Moon	85988-06-22 03:08 G	33127704.46	33127704.63	33127704.81	0.0088	0.0065 *
Moon	85989-06-24 10:05 G	33128071.70	33128071.92	33128072.16	0.0088	0.0035
Earth	85989-06-24 11:17 G	33128071.76	33128071.97	33128072.22	0.0088	0.0040 *
Earth	85990-06-26 22:48 G	33128439.21	33128439.45	33128439.72	0.0088	0.0020
Moon	85990-06-26 23:32 G	33128439.24	33128439.48	33128439.75	0.0088	0.0024 *
Earth	85991-06-29 10:34 G	33128806.69	33128806.94	33128807.20	0.0088	0.0002
Moon	85991-06-29 11:03 G	33128806.71	33128806.96	33128807.21	0.0088	0.0005 *
Moon	85992-06-30 19:56 G	33129174.07	33129174.33	33129174.60	0.0088	0.0016
Earth	85992-06-30 21:51 G	33129174.17	33129174.41	33129174.68	0.0088	0.0021 *
Earth	85993-07-03 09:08 G	33129541.67	33129541.88	33129542.13	0.0088	0.0041
Moon	85993-07-03 12:00 G	33129541.79	33129542.00	33129542.22	0.0088	0.0045 *
Moon	85994-07-05 17:03 G	33129909.03	33129909.21	33129909.44	0.0088	0.0056
Earth	85994-07-05 20:39 G	33129909.20	33129909.36	33129909.57	0.0088	0.0061 *
Earth	85995-07-08 08:24 G	33130276.75	33130276.85	33130276.96	0.0088	0.0080
Moon	85995-07-08 11:46 G	33130276.95	33130276.99	33130277.07	0.0088	0.0085 *

# 87TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 87th millennium CE.

PLANET	MAX- TRANSIT	C	START	MAX	END	SUNRAD	DEPTH	S
--------	-----------------	---	-------	-----	-----	--------	-------	---

TIME

Mercury	86010-06-27 18:44 G	33135745.28	33135745.28	33135745.28	0.0088	0.0088
Mercury	86010-09-23 19:56 G	33135833.29	33135833.33	33135833.39	0.0088	0.0081
Mercury	86010-12-20 21:22 G	33135921.32	33135921.39	33135921.47	0.0088	0.0074
Mercury	86011-03-18 22:34 G	33136009.37	33136009.44	33136009.55	0.0088	0.0067
Mercury	86011-06-15 00:15 G	33136097.42	33136097.51	33136097.62	0.0088	0.0059
Mercury	86011-09-11 01:41 G	33136185.47	33136185.57	33136185.69	0.0088	0.0052
Mercury	86011-12-08 03:08 G	33136273.52	33136273.63	33136273.75	0.0088	0.0045
Mercury	86012-03-05 04:34 G	33136361.57	33136361.69	33136361.82	0.0088	0.0037
Mercury	86012-06-01 06:15 G	33136449.63	33136449.76	33136449.89	0.0088	0.0030
Mercury	86012-08-28 07:27 G	33136537.68	33136537.81	33136537.95	0.0088	0.0023
Mercury	86012-11-24 08:53 G	33136625.74	33136625.87	33136626.01	0.0088	0.0016
Mercury	86013-02-20 10:34 G	33136713.80	33136713.94	33136714.08	0.0088	0.0008
Mercury	86013-05-19 12:00 G	33136801.86	33136802.00	33136802.14	0.0088	0.0001
Mercury	86013-08-15 13:27 G	33136889.92	33136890.06	33136890.20	0.0088	0.0007
Mercury	86013-11-11 14:53 G	33136977.98	33136978.12	33136978.26	0.0088	0.0014
Mercury	86014-02-07 16:20 G	33137066.05	33137066.18	33137066.32	0.0088	0.0022
Mercury	86014-05-06 17:46 G	33137154.11	33137154.24	33137154.38	0.0088	0.0029
Mercury	86014-08-02 19:12 G	33137242.18	33137242.30	33137242.43	0.0088	0.0037
Mercury	86014-10-29 20:53 G	33137330.25	33137330.37	33137330.49	0.0088	0.0044
Mercury	86015-01-25 22:20 G	33137418.32	33137418.43	33137418.55	0.0088	0.0052
Mercury	86015-04-23 23:46 G	33137506.39	33137506.49	33137506.60	0.0088	0.0059
Mercury	86015-07-21 01:12 G	33137594.47	33137594.55	33137594.65	0.0088	0.0067
Mercury	86015-10-17 02:53 G	33137682.55	33137682.62	33137682.70	0.0088	0.0074
Mercury	86016-01-13 04:20 G	33137770.64	33137770.68	33137770.74	0.0088	0.0082
Mars	86022-08-23 08:10 G	33140184.58	33140184.84	33140185.12	0.0088	0.0049
Mars	86024-07-18 16:34 G	33140880.12	33140880.19	33140880.32	0.0088	0.0084
Venus	86055-03-09 06:29 G	33152070.71	33152070.77	33152070.87	0.0089	0.0083
Venus	86055-10-20 19:27 G	33152296.20	33152296.31	33152296.45	0.0089	0.0073
Venus	86056-06-02 08:24 G	33152521.71	33152521.85	33152522.01	0.0089	0.0063

Venus	86057-01-13 21:22 G	33152747.22	33152747.39	33152747.57	0.0089	0.0053
Venus	86057-08-27 10:05 G	33152972.74	33152972.92	33152973.12	0.0089	0.0044
Venus	86058-04-09 22:48 G	33153198.27	33153198.45	33153198.67	0.0089	0.0034
Venus	86058-11-21 11:46 G	33153423.79	33153423.99	33153424.21	0.0089	0.0024
Venus	86059-07-05 00:29 G	33153649.31	33153649.52	33153649.74	0.0089	0.0014
Venus	86060-02-15 13:27 G	33153874.84	33153875.06	33153875.28	0.0089	0.0004
Venus	86060-09-28 02:24 G	33154100.38	33154100.60	33154100.82	0.0089	0.0006
Venus	86061-05-11 15:08 G	33154325.92	33154326.13	33154326.35	0.0089	0.0016
Venus	86061-12-23 03:36 G	33154551.45	33154551.65	33154551.87	0.0089	0.0026
Venus	86062-08-05 16:20 G	33154776.99	33154777.18	33154777.39	0.0089	0.0036
Venus	86063-03-19 05:03 G	33155002.54	33155002.71	33155002.91	0.0089	0.0046
Venus	86063-10-30 18:15 G	33155228.09	33155228.26	33155228.43	0.0089	0.0055
Venus	86064-06-12 06:44 G	33155453.65	33155453.78	33155453.94	0.0089	0.0065
Venus	86065-01-23 19:27 G	33155679.21	33155679.31	33155679.44	0.0089	0.0075
Venus	86065-09-06 08:10 G	33155904.80	33155904.84	33155904.93	0.0089	0.0085
Moon	86069-12-22 01:41 G	33157472.55	33157472.57	33157472.62	0.0089	0.0088
Moon	86070-12-24 07:41 G	33157839.72	33157839.82	33157839.98	0.0089	0.0076
Earth	86070-12-24 11:03 G	33157839.81	33157839.96	33157840.11	0.0089	0.0072 *
Earth	86071-12-26 22:20 G	33158207.24	33158207.43	33158207.66	0.0089	0.0052
Moon	86071-12-27 00:44 G	33158207.31	33158207.53	33158207.76	0.0089	0.0047 *
Moon	86072-12-28 10:20 G	33158574.71	33158574.93	33158575.17	0.0089	0.0035
Earth	86072-12-28 10:34 G	33158574.71	33158574.94	33158575.19	0.0089	0.0031 *
Moon	86073-12-30 21:51 G	33158942.15	33158942.41	33158942.68	0.0089	0.0007
Earth	86073-12-30 22:34 G	33158942.19	33158942.44	33158942.70	0.0089	0.0010 *
Earth	86075-01-02 10:34 G	33159309.68	33159309.94	33159310.19	0.0089	0.0011
Moon	86075-01-02 12:15 G	33159309.76	33159310.01	33159310.26	0.0089	0.0006 *
Moon	86076-01-04 18:58 G	33159677.07	33159677.29	33159677.55	0.0089	0.0036
Earth	86076-01-04 22:05 G	33159677.20	33159677.42	33159677.68	0.0089	0.0032 *
Earth	86077-01-06 09:36 G	33160044.71	33160044.90	33160045.13	0.0089	0.0053
Moon	86077-01-06 12:58 G	33160044.84	33160045.04	33160045.27	0.0089	0.0048 *



Moon	86078-01-08 17:46 G	33160412.14	33160412.24	33160412.39	0.0089	0.0078
Earth	86078-01-08 21:36 G	33160412.27	33160412.40	33160412.57	0.0089	0.0073 *
Moon	86079-01-11 12:44 G	33160780.01	33160780.03	33160780.08	0.0089	0.0089
Mercury	86093-09-21 11:17 G	33166146.93	33166146.97	33166147.03	0.0090	0.0086
Mercury	86093-12-18 14:24 G	33166235.02	33166235.10	33166235.21	0.0090	0.0076
Mercury	86094-03-16 17:46 G	33166323.13	33166323.24	33166323.38	0.0090	0.0065
Mercury	86094-06-12 20:53 G	33166411.24	33166411.37	33166411.53	0.0090	0.0055
Mercury	86094-09-09 00:15 G	33166499.36	33166499.51	33166499.68	0.0090	0.0044
Mercury	86094-12-06 03:22 G	33166587.48	33166587.64	33166587.82	0.0090	0.0034
Mercury	86095-03-04 06:58 G	33166675.61	33166675.79	33166675.96	0.0090	0.0023
Mercury	86095-05-31 10:05 G	33166763.74	33166763.92	33166764.10	0.0090	0.0013
Mercury	86095-08-27 13:12 G	33166851.87	33166852.05	33166852.23	0.0090	0.0003
Mercury	86095-11-23 16:20 G	33166940.00	33166940.18	33166940.37	0.0090	0.0008
Mercury	86096-02-19 19:27 G	33167028.14	33167028.31	33167028.49	0.0090	0.0018
Mercury	86096-05-17 22:34 G	33167116.27	33167116.44	33167116.62	0.0090	0.0029
Mercury	86096-08-14 01:41 G	33167204.41	33167204.57	33167204.74	0.0090	0.0039
Mercury	86096-11-10 04:48 G	33167292.55	33167292.70	33167292.86	0.0090	0.0049
Mercury	86097-02-06 07:41 G	33167380.70	33167380.82	33167380.97	0.0090	0.0059
Mercury	86097-05-05 10:48 G	33167468.85	33167468.95	33167469.07	0.0090	0.0069
Mercury	86097-08-01 13:56 G	33167557.01	33167557.08	33167557.17	0.0090	0.0079
Mercury	86097-10-28 16:48 G	33167645.19	33167645.20	33167645.24	0.0090	0.0089
Mars	86104-05-10 03:51 G	33170029.44	33170029.66	33170029.93	0.0090	0.0051
Saturn	86105-11-25 11:03 G	33170593.37	33170593.96	33170594.58	0.0090	0.0032
Mars	86106-04-04 11:46 G	33170723.87	33170723.99	33170724.15	0.0090	0.0079
Venus	86136-01-29 18:00 G	33181616.22	33181616.25	33181616.33	0.0089	0.0086
Venus	86136-09-11 07:27 G	33181841.71	33181841.81	33181841.94	0.0089	0.0076
Venus	86137-04-24 20:39 G	33182067.23	33182067.36	33182067.52	0.0089	0.0066
Venus	86137-12-06 10:05 G	33182292.75	33182292.92	33182293.09	0.0089	0.0056
Venus	86138-07-19 22:48 G	33182518.28	33182518.45	33182518.66	0.0089	0.0047
Venus	86139-03-02 12:15 G	33182743.82	33182744.01	33182744.22	0.0089	0.0037

Venus	86139-10-14 01:27 G	33182969.36	33182969.56	33182969.78	0.0089	0.0027
Venus	86140-05-26 14:39 G	33183194.90	33183195.11	33183195.34	0.0089	0.0017
Venus	86141-01-07 04:05 G	33183420.45	33183420.67	33183420.89	0.0089	0.0006
Venus	86141-08-20 17:17 G	33183646.00	33183646.22	33183646.44	0.0088	0.0003
Venus	86142-04-03 06:29 G	33183871.56	33183871.77	33183872.00	0.0088	0.0014
Venus	86142-11-14 19:41 G	33184097.12	33184097.32	33184097.55	0.0088	0.0024
Venus	86143-06-28 08:53 G	33184322.68	33184322.87	33184323.09	0.0088	0.0034
Venus	86144-02-08 22:05 G	33184548.24	33184548.42	33184548.63	0.0088	0.0044
Venus	86144-09-21 11:17 G	33184773.81	33184773.97	33184774.17	0.0088	0.0054
Venus	86145-05-05 00:29 G	33184999.39	33184999.52	33184999.70	0.0088	0.0064
Venus	86145-12-16 14:10 G	33185224.97	33185225.09	33185225.22	0.0088	0.0073
Venus	86146-07-30 03:08 G	33185450.57	33185450.63	33185450.73	0.0088	0.0083
Earth	86151-06-20 23:03 G	33187237.42	33187237.46	33187237.56	0.0088	0.0085
Moon	86151-06-21 01:27 G	33187237.51	33187237.56	33187237.67	0.0088	0.0084 *
Moon	86152-06-22 09:22 G	33187604.73	33187604.89	33187605.06	0.0088	0.0066
Earth	86152-06-22 10:34 G	33187604.79	33187604.94	33187605.13	0.0088	0.0065 *
Moon	86153-06-24 21:36 G	33187972.19	33187972.40	33187972.65	0.0088	0.0044
Earth	86153-06-24 21:51 G	33187972.21	33187972.41	33187972.65	0.0088	0.0045 *
Earth	86154-06-27 09:22 G	33188339.65	33188339.89	33188340.15	0.0088	0.0025
Moon	86154-06-27 10:34 G	33188339.71	33188339.94	33188340.19	0.0088	0.0026 *
Moon	86155-06-29 18:58 G	33188707.03	33188707.29	33188707.56	0.0088	0.0005
Earth	86155-06-29 21:08 G	33188707.12	33188707.38	33188707.64	0.0088	0.0005 *
Earth	86156-07-01 08:24 G	33189074.60	33189074.85	33189075.11	0.0088	0.0015
Moon	86156-07-01 11:46 G	33189074.74	33189074.99	33189075.25	0.0088	0.0014 *
Moon	86157-07-03 16:20 G	33189441.96	33189442.18	33189442.44	0.0088	0.0036
Earth	86157-07-03 19:56 G	33189442.11	33189442.33	33189442.58	0.0088	0.0035 *
Earth	86158-07-06 07:12 G	33189809.61	33189809.80	33189810.02	0.0088	0.0055
Moon	86158-07-06 11:03 G	33189809.77	33189809.96	33189810.17	0.0088	0.0055 *
Moon	86159-07-08 16:05 G	33190177.04	33190177.17	33190177.30	0.0088	0.0075
Earth	86159-07-08 18:29 G	33190177.16	33190177.27	33190177.43	0.0088	0.0075 *

Mercury	86175-03-25 18:29 G	33195916.23	33195916.27	33195916.32	0.0088	0.0083
Mercury	86175-06-21 19:56 G	33196004.27	33196004.33	33196004.40	0.0088	0.0076
Mercury	86175-09-17 21:08 G	33196092.31	33196092.38	33196092.48	0.0088	0.0069
Mercury	86175-12-14 22:34 G	33196180.36	33196180.44	33196180.55	0.0088	0.0062
Mercury	86176-03-12 00:00 G	33196268.40	33196268.50	33196268.62	0.0088	0.0055
Mercury	86176-06-08 01:41 G	33196356.45	33196356.57	33196356.69	0.0088	0.0047
Mercury	86176-09-04 03:08 G	33196444.51	33196444.63	33196444.75	0.0088	0.0040
Mercury	86176-12-01 04:20 G	33196532.56	33196532.68	33196532.82	0.0088	0.0033
Mercury	86177-02-27 05:46 G	33196620.62	33196620.74	33196620.88	0.0088	0.0026
Mercury	86177-05-26 07:27 G	33196708.67	33196708.81	33196708.95	0.0088	0.0018
Mercury	86177-08-22 08:53 G	33196796.73	33196796.87	33196797.01	0.0088	0.0011
Mercury	86177-11-18 10:20 G	33196884.79	33196884.93	33196885.07	0.0088	0.0003
Mercury	86178-02-14 11:46 G	33196972.85	33196972.99	33196973.13	0.0088	0.0004
Mercury	86178-05-13 13:12 G	33197060.91	33197061.05	33197061.19	0.0088	0.0011
Mercury	86178-08-09 14:39 G	33197148.98	33197149.11	33197149.25	0.0088	0.0019
Mercury	86178-11-05 16:05 G	33197237.04	33197237.17	33197237.31	0.0088	0.0026
Mercury	86179-02-01 17:32 G	33197325.11	33197325.23	33197325.37	0.0088	0.0034
Mercury	86179-04-30 19:12 G	33197413.18	33197413.30	33197413.42	0.0088	0.0041
Mercury	86179-07-27 20:39 G	33197501.25	33197501.36	33197501.48	0.0088	0.0049
Mercury	86179-10-23 21:51 G	33197589.32	33197589.41	33197589.53	0.0088	0.0057
Mercury	86180-01-19 23:32 G	33197677.39	33197677.48	33197677.58	0.0088	0.0064
Mercury	86180-04-17 00:58 G	33197765.47	33197765.54	33197765.63	0.0088	0.0072
Mercury	86180-07-14 02:39 G	33197853.56	33197853.61	33197853.68	0.0088	0.0079
Mercury	86180-10-10 03:51 G	33197941.66	33197941.66	33197941.70	0.0088	0.0087
Mars	86188-03-03 00:44 G	33200642.25	33200642.53	33200642.85	0.0088	0.0036
Venus	86219-06-12 18:29 G	33212065.22	33212065.27	33212065.34	0.0089	0.0085
Venus	86220-01-24 06:58 G	33212290.70	33212290.79	33212290.93	0.0089	0.0076
Venus	86220-09-05 20:10 G	33212516.21	33212516.34	33212516.50	0.0089	0.0066
Venus	86221-04-19 09:08 G	33212741.72	33212741.88	33212742.06	0.0089	0.0056
Venus	86221-11-30 22:05 G	33212967.24	33212967.42	33212967.62	0.0089	0.0046

Venus	86222-07-14 10:48 G	33213192.76	33213192.95	33213193.16	0.0089	0.0036
Venus	86223-02-24 23:46 G	33213418.29	33213418.49	33213418.71	0.0089	0.0026
Venus	86223-10-08 12:44 G	33213643.82	33213644.03	33213644.25	0.0089	0.0016
Venus	86224-05-21 01:41 G	33213869.35	33213869.57	33213869.79	0.0089	0.0006
Venus	86225-01-01 14:24 G	33214094.88	33214095.10	33214095.32	0.0089	0.0004
Venus	86225-08-15 03:08 G	33214320.42	33214320.63	33214320.85	0.0089	0.0014
Venus	86226-03-28 15:51 G	33214545.96	33214546.16	33214546.38	0.0089	0.0024
Venus	86226-11-09 04:20 G	33214771.50	33214771.68	33214771.90	0.0089	0.0034
Venus	86227-06-22 17:32 G	33214997.04	33214997.23	33214997.42	0.0089	0.0043
Venus	86228-02-03 06:00 G	33215222.59	33215222.75	33215222.93	0.0089	0.0053
Venus	86228-09-15 18:58 G	33215448.15	33215448.29	33215448.45	0.0089	0.0063
Venus	86229-04-29 07:27 G	33215673.71	33215673.81	33215673.95	0.0089	0.0073
Venus	86229-12-10 20:10 G	33215899.28	33215899.34	33215899.44	0.0089	0.0083
Jupiter	86233-03-28 14:53 G	33217102.62	33217103.12	33217103.68	0.0089	0.0029
Earth	86234-12-25 20:39 G	33217740.25	33217740.36	33217740.51	0.0089	0.0078
Moon	86234-12-25 21:36 G	33217740.31	33217740.40	33217740.55	0.0089	0.0080 *
Moon	86235-12-28 08:39 G	33218107.68	33218107.86	33218108.07	0.0089	0.0055
Earth	86235-12-28 08:39 G	33218107.69	33218107.86	33218108.08	0.0089	0.0057 *
Moon	86236-12-29 19:12 G	33218475.08	33218475.30	33218475.55	0.0089	0.0040
Earth	86236-12-29 20:39 G	33218475.14	33218475.36	33218475.61	0.0089	0.0037 *
Earth	86238-01-01 09:08 G	33218842.62	33218842.88	33218843.13	0.0089	0.0016
Moon	86238-01-01 11:03 G	33218842.72	33218842.96	33218843.22	0.0089	0.0013 *
Moon	86239-01-03 18:00 G	33219209.99	33219210.25	33219210.51	0.0089	0.0002
Earth	86239-01-03 20:53 G	33219210.12	33219210.37	33219210.63	0.0089	0.0005 *
Earth	86240-01-06 08:24 G	33219577.62	33219577.85	33219578.11	0.0089	0.0026
Moon	86240-01-06 12:00 G	33219577.77	33219578.00	33219578.26	0.0089	0.0029 *
Moon	86241-01-07 17:03 G	33219945.00	33219945.21	33219945.44	0.0089	0.0044
Earth	86241-01-07 20:10 G	33219945.14	33219945.34	33219945.58	0.0089	0.0046 *
Earth	86242-01-10 07:56 G	33220312.68	33220312.83	33220313.02	0.0089	0.0067
Moon	86242-01-10 11:17 G	33220312.83	33220312.97	33220313.16	0.0089	0.0068 *

Moon	86243-01-12 18:00 G	33220680.18	33220680.25	33220680.34	0.0089	0.0085
Earth	86243-01-12 19:27 G	33220680.29	33220680.31	33220680.40	0.0089	0.0088 *
Mercury	86258-06-20 10:05 G	33226317.86	33226317.92	33226318.03	0.0090	0.0080
Mercury	86258-09-16 13:41 G	33226405.96	33226406.07	33226406.20	0.0090	0.0069
Mercury	86258-12-13 17:17 G	33226494.08	33226494.22	33226494.36	0.0090	0.0058
Mercury	86259-03-11 20:10 G	33226582.20	33226582.34	33226582.51	0.0090	0.0048
Mercury	86259-06-07 23:17 G	33226670.32	33226670.47	33226670.65	0.0090	0.0038
Mercury	86259-09-04 02:53 G	33226758.45	33226758.62	33226758.80	0.0090	0.0027
Mercury	86259-12-01 06:00 G	33226846.57	33226846.75	33226846.93	0.0090	0.0016
Mercury	86260-02-27 09:22 G	33226934.71	33226934.89	33226935.07	0.0090	0.0006
Mercury	86260-05-25 12:29 G	33227022.84	33227023.02	33227023.20	0.0090	0.0004
Mercury	86260-08-21 15:36 G	33227110.97	33227111.15	33227111.33	0.0090	0.0015
Mercury	86260-11-17 18:44 G	33227199.11	33227199.28	33227199.46	0.0090	0.0025
Mercury	86261-02-13 21:51 G	33227287.25	33227287.41	33227287.58	0.0090	0.0035
Mercury	86261-05-13 00:44 G	33227375.39	33227375.53	33227375.70	0.0090	0.0046
Mercury	86261-08-09 03:51 G	33227463.53	33227463.66	33227463.81	0.0090	0.0056
Mercury	86261-11-05 06:58 G	33227551.68	33227551.79	33227551.92	0.0090	0.0066
Mercury	86262-02-01 10:05 G	33227639.84	33227639.92	33227640.03	0.0090	0.0076
Mercury	86262-04-30 12:58 G	33227728.01	33227728.04	33227728.11	0.0090	0.0086
Mars	86269-11-18 15:08 G	33230486.87	33230487.13	33230487.43	0.0090	0.0031
Venus	86300-05-04 05:32 G	33241610.72	33241610.73	33241610.77	0.0089	0.0088
Venus	86300-12-15 18:58 G	33241836.19	33241836.29	33241836.40	0.0089	0.0078
Venus	86301-07-29 07:41 G	33242061.70	33242061.82	33242061.98	0.0089	0.0069
Venus	86302-03-11 21:08 G	33242287.23	33242287.38	33242287.56	0.0089	0.0059
Venus	86302-10-23 10:20 G	33242512.76	33242512.93	33242513.13	0.0089	0.0049
Venus	86303-06-05 23:32 G	33242738.29	33242738.48	33242738.69	0.0089	0.0039
Venus	86304-01-17 12:44 G	33242963.83	33242964.03	33242964.25	0.0089	0.0029
Venus	86304-08-30 01:56 G	33243189.37	33243189.58	33243189.80	0.0089	0.0019
Venus	86305-04-12 15:22 G	33243414.92	33243415.14	33243415.36	0.0089	0.0009
Venus	86305-11-24 04:34 G	33243640.46	33243640.69	33243640.91	0.0089	0.0002

Venus	86306-07-07 17:32 G	33243866.01	33243866.23	33243866.45	0.0088	0.0011
Venus	86307-02-18 06:44 G	33244091.57	33244091.78	33244092.00	0.0088	0.0021
Venus	86307-10-01 19:41 G	33244317.13	33244317.32	33244317.55	0.0088	0.0032
Venus	86308-05-14 08:53 G	33244542.70	33244542.87	33244543.09	0.0088	0.0042
Venus	86308-12-25 22:34 G	33244768.26	33244768.44	33244768.62	0.0088	0.0051
Venus	86309-08-08 11:46 G	33244993.83	33244993.99	33244994.16	0.0088	0.0061
Venus	86310-03-22 00:58 G	33245219.42	33245219.54	33245219.68	0.0088	0.0071
Venus	86310-11-02 14:10 G	33245445.02	33245445.09	33245445.20	0.0088	0.0081
Moon	86316-06-23 21:08 G	33247505.22	33247505.38	33247505.57	0.0088	0.0066
Earth	86316-06-23 21:08 G	33247505.25	33247505.38	33247505.56	0.0088	0.0070 *
Earth	86317-06-26 08:24 G	33247872.66	33247872.85	33247873.08	0.0088	0.0051
Moon	86317-06-26 10:05 G	33247872.75	33247872.92	33247873.14	0.0088	0.0055 *
Moon	86318-06-28 17:03 G	33248239.97	33248240.21	33248240.47	0.0088	0.0027
Earth	86318-06-28 20:10 G	33248240.10	33248240.34	33248240.58	0.0088	0.0030 *
Earth	86319-07-01 07:27 G	33248607.55	33248607.81	33248608.07	0.0088	0.0010
Moon	86319-07-01 10:34 G	33248607.69	33248607.94	33248608.19	0.0088	0.0015 *
Moon	86320-07-02 15:08 G	33248974.88	33248975.13	33248975.39	0.0088	0.0014
Earth	86320-07-02 18:58 G	33248975.03	33248975.29	33248975.55	0.0088	0.0009 *
Earth	86321-07-05 06:15 G	33249342.52	33249342.76	33249343.01	0.0088	0.0029
Moon	86321-07-05 09:22 G	33249342.65	33249342.89	33249343.15	0.0088	0.0025 *
Moon	86322-07-07 14:39 G	33249709.92	33249710.11	33249710.32	0.0088	0.0054
Earth	86322-07-07 17:46 G	33249710.03	33249710.24	33249710.46	0.0088	0.0049 *
Earth	86323-07-10 05:17 G	33250077.57	33250077.72	33250077.89	0.0088	0.0069
Moon	86323-07-10 07:12 G	33250077.63	33250077.80	33250077.99	0.0088	0.0064 *
Mercury	86339-09-25 16:48 G	33255999.18	33255999.20	33255999.24	0.0088	0.0086
Mercury	86339-12-22 18:15 G	33256087.21	33256087.26	33256087.33	0.0088	0.0079
Mercury	86340-03-19 19:56 G	33256175.25	33256175.33	33256175.41	0.0088	0.0071
Mercury	86340-06-15 21:22 G	33256263.30	33256263.39	33256263.48	0.0088	0.0064
Mercury	86340-09-11 22:34 G	33256351.34	33256351.44	33256351.55	0.0088	0.0057
Mercury	86340-12-09 00:00 G	33256439.39	33256439.50	33256439.62	0.0088	0.0050

Mercury	86341-03-07 01:27 G	33256527.45	33256527.56	33256527.69	0.0088	0.0043
Mercury	86341-06-03 02:53 G	33256615.50	33256615.62	33256615.75	0.0088	0.0035
Mercury	86341-08-30 04:20 G	33256703.55	33256703.68	33256703.82	0.0088	0.0028
Mercury	86341-11-26 05:46 G	33256791.61	33256791.74	33256791.88	0.0088	0.0021
Mercury	86342-02-22 07:12 G	33256879.67	33256879.80	33256879.94	0.0088	0.0014
Mercury	86342-05-21 08:39 G	33256967.73	33256967.86	33256968.00	0.0088	0.0007
Mercury	86342-08-17 10:05 G	33257055.79	33257055.92	33257056.06	0.0088	0.0003
Mercury	86342-11-13 11:46 G	33257143.85	33257143.99	33257144.12	0.0088	0.0009
Mercury	86343-02-09 12:58 G	33257231.91	33257232.04	33257232.18	0.0088	0.0016
Mercury	86343-05-08 14:24 G	33257319.97	33257320.10	33257320.24	0.0088	0.0024
Mercury	86343-08-04 16:05 G	33257408.04	33257408.17	33257408.30	0.0088	0.0031
Mercury	86343-10-31 17:17 G	33257496.11	33257496.22	33257496.36	0.0088	0.0039
Mercury	86344-01-27 18:58 G	33257584.17	33257584.29	33257584.41	0.0088	0.0046
Mercury	86344-04-24 20:10 G	33257672.24	33257672.34	33257672.47	0.0088	0.0054
Mercury	86344-07-21 21:51 G	33257760.32	33257760.41	33257760.52	0.0088	0.0061
Mercury	86344-10-17 23:17 G	33257848.39	33257848.47	33257848.57	0.0088	0.0069
Mercury	86345-01-14 00:44 G	33257936.48	33257936.53	33257936.61	0.0088	0.0076
Mercury	86345-04-12 02:10 G	33258024.57	33258024.59	33258024.65	0.0088	0.0084
Mars	86351-10-18 07:56 G	33260404.51	33260404.83	33260405.16	0.0088	0.0013
Venus	86383-09-15 05:46 G	33272059.73	33272059.74	33272059.80	0.0089	0.0088
Venus	86384-04-27 18:58 G	33272285.20	33272285.29	33272285.40	0.0089	0.0078
Venus	86384-12-09 07:56 G	33272510.70	33272510.83	33272510.97	0.0089	0.0068
Venus	86385-07-22 20:53 G	33272736.21	33272736.37	33272736.53	0.0089	0.0058
Venus	86386-03-05 09:22 G	33272961.72	33272961.89	33272962.09	0.0089	0.0049
Venus	86386-10-16 22:20 G	33273187.25	33273187.43	33273187.64	0.0089	0.0039
Venus	86387-05-30 11:17 G	33273412.78	33273412.97	33273413.19	0.0089	0.0029
Venus	86388-01-11 00:15 G	33273638.30	33273638.51	33273638.73	0.0089	0.0019
Venus	86388-08-23 13:12 G	33273863.84	33273864.05	33273864.28	0.0089	0.0009
Venus	86389-04-06 02:10 G	33274089.37	33274089.59	33274089.81	0.0089	0.0002
Venus	86389-11-17 14:53 G	33274314.91	33274315.12	33274315.34	0.0089	0.0012

Venus	86390-07-01 03:51 G	33274540.45	33274540.66	33274540.87	0.0089	0.0021
Venus	86391-02-11 16:34 G	33274765.99	33274766.19	33274766.40	0.0089	0.0031
Venus	86391-09-25 05:17 G	33274991.54	33274991.72	33274991.92	0.0089	0.0041
Venus	86392-05-07 18:00 G	33275217.09	33275217.25	33275217.44	0.0089	0.0051
Venus	86392-12-19 06:44 G	33275442.64	33275442.78	33275442.95	0.0089	0.0061
Venus	86393-08-01 19:12 G	33275668.19	33275668.30	33275668.45	0.0089	0.0071
Venus	86394-03-15 07:56 G	33275893.77	33275893.83	33275893.95	0.0089	0.0081
Earth	86398-12-26 06:44 G	33277640.72	33277640.78	33277640.90	0.0089	0.0083
Moon	86398-12-26 07:56 G	33277640.74	33277640.83	33277640.95	0.0089	0.0080 *
Moon	86399-12-28 17:46 G	33278008.07	33278008.24	33278008.43	0.0089	0.0066
Earth	86399-12-28 19:12 G	33278008.13	33278008.30	33278008.50	0.0089	0.0062 *
Earth	86400-12-30 07:12 G	33278375.59	33278375.80	33278376.05	0.0089	0.0042
Moon	86400-12-30 10:20 G	33278375.71	33278375.93	33278376.17	0.0089	0.0039 *
Moon	86402-01-01 16:20 G	33278742.94	33278743.18	33278743.44	0.0089	0.0024
Earth	86402-01-01 19:41 G	33278743.08	33278743.32	33278743.58	0.0089	0.0021 *
Earth	86403-01-04 07:41 G	33279110.56	33279110.82	33279111.08	0.0089	0.0001
Moon	86403-01-04 11:17 G	33279110.71	33279110.97	33279111.22	0.0089	0.0004 *
Moon	86404-01-06 16:05 G	33279477.93	33279478.17	33279478.43	0.0089	0.0016
Earth	86404-01-06 19:27 G	33279478.07	33279478.31	33279478.57	0.0089	0.0020 *
Earth	86405-01-08 07:12 G	33279845.58	33279845.80	33279846.04	0.0089	0.0040
Moon	86405-01-08 09:36 G	33279845.69	33279845.90	33279846.15	0.0089	0.0045 *
Moon	86406-01-10 17:17 G	33280213.03	33280213.22	33280213.41	0.0089	0.0057
Earth	86406-01-10 19:12 G	33280213.12	33280213.30	33280213.49	0.0089	0.0061 *
Earth	86407-01-13 06:29 G	33280580.69	33280580.77	33280580.90	0.0089	0.0082
Moon	86407-01-13 07:27 G	33280580.74	33280580.81	33280580.90	0.0089	0.0085 *
Mercury	86422-12-20 06:00 G	33286400.70	33286400.75	33286400.83	0.0090	0.0084
Mercury	86423-03-18 09:36 G	33286488.80	33286488.90	33286489.01	0.0090	0.0073
Mercury	86423-06-14 12:29 G	33286576.91	33286577.02	33286577.17	0.0090	0.0063
Mercury	86423-09-10 16:05 G	33286665.03	33286665.17	33286665.33	0.0090	0.0052
Mercury	86423-12-07 19:12 G	33286753.15	33286753.30	33286753.47	0.0090	0.0042



Mercury	86424-03-04 22:34 G	33286841.27	33286841.44	33286841.62	0.0090	0.0031
Mercury	86424-06-01 01:56 G	33286929.40	33286929.58	33286929.76	0.0090	0.0020
Mercury	86424-08-28 05:03 G	33287017.53	33287017.71	33287017.90	0.0090	0.0010
Mercury	86424-11-24 08:24 G	33287105.67	33287105.85	33287106.03	0.0090	0.0001
Mercury	86425-02-20 11:32 G	33287193.80	33287193.98	33287194.16	0.0090	0.0011
Mercury	86425-05-19 14:39 G	33287281.94	33287282.11	33287282.29	0.0090	0.0021
Mercury	86425-08-15 17:32 G	33287370.08	33287370.23	33287370.42	0.0090	0.0032
Mercury	86425-11-11 20:39 G	33287458.22	33287458.36	33287458.54	0.0090	0.0042
Mercury	86426-02-08 00:00 G	33287546.36	33287546.50	33287546.65	0.0090	0.0052
Mercury	86426-05-07 03:08 G	33287634.51	33287634.63	33287634.77	0.0090	0.0062
Mercury	86426-08-03 06:15 G	33287722.66	33287722.76	33287722.87	0.0090	0.0072
Mercury	86426-10-30 09:22 G	33287810.82	33287810.89	33287810.97	0.0090	0.0082
Mars	86433-07-04 21:36 G	33290250.11	33290250.40	33290250.70	0.0090	0.0018
Venus	86465-03-19 06:00 G	33301830.68	33301830.75	33301830.85	0.0089	0.0081
Venus	86465-10-30 19:12 G	33302056.18	33302056.30	33302056.45	0.0089	0.0071
Venus	86466-06-13 08:24 G	33302281.70	33302281.85	33302282.02	0.0089	0.0061
Venus	86467-01-24 21:51 G	33302507.23	33302507.41	33302507.59	0.0089	0.0051
Venus	86467-09-07 11:03 G	33302732.77	33302732.96	33302733.16	0.0089	0.0041
Venus	86468-04-20 00:15 G	33302958.31	33302958.51	33302958.72	0.0089	0.0031
Venus	86468-12-01 13:12 G	33303183.84	33303184.05	33303184.27	0.0089	0.0021
Venus	86469-07-15 02:24 G	33303409.39	33303409.60	33303409.83	0.0089	0.0011
Venus	86470-02-25 15:51 G	33303634.94	33303635.16	33303635.38	0.0089	0.0001
Venus	86470-10-09 05:03 G	33303860.49	33303860.71	33303860.93	0.0089	0.0009
Venus	86471-05-22 18:15 G	33304086.04	33304086.26	33304086.47	0.0088	0.0019
Venus	86472-01-03 07:12 G	33304311.60	33304311.80	33304312.01	0.0088	0.0029
Venus	86472-08-15 20:24 G	33304537.16	33304537.35	33304537.55	0.0088	0.0039
Venus	86473-03-29 09:36 G	33304762.73	33304762.90	33304763.10	0.0088	0.0049
Venus	86473-11-09 22:48 G	33304988.30	33304988.45	33304988.63	0.0088	0.0059
Venus	86474-06-23 12:00 G	33305213.87	33305214.00	33305214.15	0.0088	0.0069
Venus	86475-02-04 01:12 G	33305439.46	33305439.55	33305439.66	0.0088	0.0078

Venus	86475-09-17 14:39 G	33305665.11	33305665.11	33305665.13	0.0088	0.0088
Earth	86480-06-23 07:56 G	33307405.72	33307405.83	33307405.99	0.0088	0.0075
Moon	86480-06-23 09:51 G	33307405.79	33307405.91	33307406.07	0.0088	0.0074 *
Moon	86481-06-25 16:20 G	33307772.99	33307773.18	33307773.39	0.0088	0.0057
Earth	86481-06-25 19:12 G	33307773.12	33307773.30	33307773.52	0.0088	0.0056 *
Earth	86482-06-28 06:58 G	33308140.55	33308140.79	33308141.02	0.0088	0.0036
Moon	86482-06-28 10:05 G	33308140.70	33308140.92	33308141.17	0.0088	0.0034 *
Moon	86483-06-30 14:39 G	33308507.86	33308508.11	33308508.37	0.0088	0.0017
Earth	86483-06-30 18:00 G	33308508.01	33308508.25	33308508.51	0.0088	0.0016 *
Earth	86484-07-02 05:17 G	33308875.46	33308875.72	33308875.98	0.0088	0.0004
Moon	86484-07-02 08:53 G	33308875.60	33308875.87	33308876.13	0.0088	0.0005 *
Moon	86485-07-04 14:24 G	33309242.86	33309243.10	33309243.35	0.0088	0.0022
Earth	86485-07-04 16:20 G	33309242.95	33309243.18	33309243.45	0.0088	0.0024 *
Earth	86486-07-07 03:36 G	33309610.45	33309610.65	33309610.89	0.0088	0.0044
Moon	86486-07-07 05:32 G	33309610.51	33309610.73	33309610.97	0.0088	0.0044 *
Moon	86487-07-09 15:08 G	33309977.96	33309978.13	33309978.31	0.0088	0.0062
Earth	86487-07-09 14:53 G	33309977.97	33309978.12	33309978.33	0.0088	0.0064 *
Moon	86488-07-11 00:58 G	33310345.50	33310345.54	33310345.64	0.0088	0.0085
Earth	86488-07-11 02:39 G	33310345.55	33310345.61	33310345.71	0.0088	0.0083 *
Mercury	86504-06-22 16:48 G	33316170.16	33316170.20	33316170.26	0.0088	0.0081
Mercury	86504-09-18 18:15 G	33316258.19	33316258.26	33316258.34	0.0088	0.0074
Mercury	86504-12-15 19:27 G	33316346.24	33316346.31	33316346.41	0.0088	0.0067
Mercury	86505-03-13 20:53 G	33316434.28	33316434.37	33316434.48	0.0088	0.0060
Mercury	86505-06-09 22:34 G	33316522.33	33316522.44	33316522.55	0.0088	0.0052
Mercury	86505-09-06 00:00 G	33316610.38	33316610.50	33316610.62	0.0088	0.0045
Mercury	86505-12-03 01:12 G	33316698.44	33316698.55	33316698.68	0.0088	0.0038
Mercury	86506-03-01 02:39 G	33316786.49	33316786.61	33316786.75	0.0088	0.0031
Mercury	86506-05-28 04:20 G	33316874.55	33316874.68	33316874.81	0.0088	0.0023
Mercury	86506-08-24 05:46 G	33316962.60	33316962.74	33316962.88	0.0088	0.0016
Mercury	86506-11-20 07:12 G	33317050.66	33317050.80	33317050.94	0.0088	0.0008

Mercury	86507-02-16 08:39 G	33317138.72	33317138.86	33317139.00	0.0088	0.0001
Mercury	86507-05-15 10:05 G	33317226.78	33317226.92	33317227.06	0.0088	0.0006
Mercury	86507-08-11 11:32 G	33317314.84	33317314.98	33317315.12	0.0088	0.0014
Mercury	86507-11-07 12:58 G	33317402.91	33317403.04	33317403.18	0.0088	0.0021
Mercury	86508-02-03 14:24 G	33317490.97	33317491.10	33317491.24	0.0088	0.0028
Mercury	86508-05-01 15:51 G	33317579.04	33317579.16	33317579.29	0.0088	0.0036
Mercury	86508-07-28 17:32 G	33317667.11	33317667.23	33317667.35	0.0088	0.0043
Mercury	86508-10-24 18:44 G	33317755.18	33317755.28	33317755.40	0.0088	0.0051
Mercury	86509-01-20 20:24 G	33317843.25	33317843.35	33317843.46	0.0088	0.0058
Mercury	86509-04-18 21:36 G	33317931.32	33317931.40	33317931.51	0.0088	0.0066
Mercury	86509-07-15 23:17 G	33318019.40	33318019.47	33318019.55	0.0088	0.0073
Mercury	86509-10-12 00:44 G	33318107.49	33318107.53	33318107.59	0.0088	0.0081
Mars	86515-06-02 12:29 G	33320166.82	33320167.02	33320167.29	0.0088	0.0063
Mars	86517-04-28 00:29 G	33320862.35	33320862.52	33320862.73	0.0088	0.0071
Venus	86548-07-31 06:29 G	33332279.70	33332279.77	33332279.88	0.0089	0.0081
Venus	86549-03-13 19:27 G	33332505.20	33332505.31	33332505.46	0.0089	0.0071
Venus	86549-10-25 08:24 G	33332730.71	33332730.85	33332731.02	0.0089	0.0061
Venus	86550-06-07 21:22 G	33332956.22	33332956.39	33332956.58	0.0089	0.0051
Venus	86551-01-19 10:20 G	33333181.74	33333181.93	33333182.13	0.0089	0.0041
Venus	86551-09-01 23:17 G	33333407.27	33333407.47	33333407.68	0.0089	0.0031
Venus	86552-04-14 12:15 G	33333632.80	33333633.01	33333633.22	0.0089	0.0021
Venus	86552-11-26 00:58 G	33333858.33	33333858.54	33333858.76	0.0089	0.0011
Venus	86553-07-09 13:56 G	33334083.86	33334084.08	33334084.30	0.0089	0.0001
Venus	86554-02-20 02:39 G	33334309.40	33334309.61	33334309.83	0.0089	0.0009
Venus	86554-10-03 15:36 G	33334534.94	33334535.15	33334535.37	0.0089	0.0019
Venus	86555-05-17 04:20 G	33334760.48	33334760.68	33334760.90	0.0089	0.0029
Venus	86555-12-28 17:03 G	33334986.03	33334986.21	33334986.42	0.0089	0.0039
Venus	86556-08-10 05:46 G	33335211.57	33335211.74	33335211.94	0.0089	0.0049
Venus	86557-03-23 18:29 G	33335437.12	33335437.27	33335437.45	0.0089	0.0059
Venus	86557-11-04 07:12 G	33335662.68	33335662.80	33335662.96	0.0089	0.0069

Venus	86558-06-17 20:24 G	33335888.25	33335888.35	33335888.45	0.0089	0.0078
Venus	86559-01-29 08:53 G	33336113.86	33336113.87	33336113.91	0.0089	0.0088
Moon	86562-12-26 13:56 G	33337541.02	33337541.08	33337541.20	0.0089	0.0084
Earth	86562-12-26 16:48 G	33337541.18	33337541.20	33337541.25	0.0089	0.0088 *
Earth	86563-12-29 04:34 G	33337908.56	33337908.69	33337908.89	0.0089	0.0069
Moon	86563-12-29 07:56 G	33337908.69	33337908.83	33337908.99	0.0089	0.0072 *
Moon	86564-12-30 13:41 G	33338275.85	33338276.07	33338276.30	0.0089	0.0044
Earth	86564-12-30 17:32 G	33338276.02	33338276.23	33338276.45	0.0089	0.0048 *
Earth	86566-01-02 05:17 G	33338643.49	33338643.72	33338643.98	0.0089	0.0027
Moon	86566-01-02 08:39 G	33338643.64	33338643.86	33338644.12	0.0089	0.0032 *
Moon	86567-01-04 14:39 G	33339010.86	33339011.11	33339011.36	0.0089	0.0003
Earth	86567-01-04 17:46 G	33339010.99	33339011.24	33339011.50	0.0089	0.0007 *
Earth	86568-01-07 05:32 G	33339378.49	33339378.73	33339379.00	0.0089	0.0015
Moon	86568-01-07 08:24 G	33339378.59	33339378.85	33339379.11	0.0089	0.0011 *
Moon	86569-01-08 16:34 G	33339745.98	33339746.19	33339746.43	0.0089	0.0038
Earth	86569-01-08 17:46 G	33339746.01	33339746.24	33339746.48	0.0089	0.0035 *
Earth	86570-01-11 05:17 G	33340113.54	33340113.72	33340113.94	0.0089	0.0056
Moon	86570-01-11 05:46 G	33340113.54	33340113.74	33340113.97	0.0089	0.0053 *
Earth	86571-01-13 17:03 G	33340481.09	33340481.21	33340481.37	0.0089	0.0076
Moon	86571-01-13 18:29 G	33340481.16	33340481.27	33340481.39	0.0089	0.0079 *
Mercury	86587-06-21 01:56 G	33346483.56	33346483.58	33346483.63	0.0090	0.0088
Mercury	86587-09-17 05:17 G	33346571.64	33346571.72	33346571.82	0.0090	0.0077
Mercury	86587-12-14 08:24 G	33346659.75	33346659.85	33346659.99	0.0090	0.0067
Mercury	86588-03-11 12:00 G	33346747.86	33346748.00	33346748.15	0.0090	0.0056
Mercury	86588-06-07 15:08 G	33346835.98	33346836.13	33346836.30	0.0090	0.0046
Mercury	86588-09-03 18:29 G	33346924.11	33346924.27	33346924.44	0.0090	0.0035
Mercury	86588-11-30 21:36 G	33347012.23	33347012.40	33347012.59	0.0090	0.0025
Mercury	86589-02-27 00:58 G	33347100.36	33347100.54	33347100.73	0.0090	0.0014
Mercury	86589-05-26 04:20 G	33347188.50	33347188.68	33347188.86	0.0090	0.0004
Mercury	86589-08-22 07:27 G	33347276.63	33347276.81	33347276.99	0.0090	0.0007

Mercury	86589-11-18 10:34 G	33347364.77	33347364.94	33347365.12	0.0090	0.0017
Mercury	86590-02-14 13:41 G	33347452.90	33347453.07	33347453.25	0.0090	0.0028
Mercury	86590-05-13 16:48 G	33347541.04	33347541.20	33347541.37	0.0090	0.0038
Mercury	86590-08-09 19:56 G	33347629.19	33347629.33	33347629.49	0.0090	0.0048
Mercury	86590-11-05 23:03 G	33347717.33	33347717.46	33347717.61	0.0090	0.0058
Mercury	86591-02-02 02:24 G	33347805.48	33347805.60	33347805.72	0.0090	0.0068
Mercury	86591-05-01 05:03 G	33347893.64	33347893.71	33347893.82	0.0090	0.0079
Mercury	86591-07-28 08:10 G	33347981.83	33347981.84	33347981.89	0.0090	0.0089
Mars	86597-02-18 04:20 G	33350013.50	33350013.68	33350013.91	0.0090	0.0065
Mars	86599-01-13 08:24 G	33350707.64	33350707.85	33350708.07	0.0090	0.0062
Venus	86629-06-22 16:34 G	33361825.15	33361825.19	33361825.29	0.0089	0.0084
Venus	86630-02-03 06:00 G	33362050.65	33362050.75	33362050.89	0.0089	0.0074
Venus	86630-09-16 19:12 G	33362276.17	33362276.30	33362276.47	0.0089	0.0064
Venus	86631-04-30 08:39 G	33362501.70	33362501.86	33362502.05	0.0089	0.0054
Venus	86631-12-11 21:51 G	33362727.23	33362727.41	33362727.61	0.0089	0.0044
Venus	86632-07-24 11:03 G	33362952.76	33362952.96	33362953.17	0.0089	0.0034
Venus	86633-03-07 00:15 G	33363178.31	33363178.51	33363178.74	0.0089	0.0024
Venus	86633-10-18 13:41 G	33363403.85	33363404.07	33363404.29	0.0089	0.0014
Venus	86634-06-01 02:53 G	33363629.40	33363629.62	33363629.84	0.0089	0.0004
Venus	86635-01-12 15:51 G	33363854.94	33363855.16	33363855.39	0.0089	0.0007
Venus	86635-08-26 05:03 G	33364080.50	33364080.71	33364080.93	0.0088	0.0016
Venus	86636-04-07 18:15 G	33364306.06	33364306.26	33364306.48	0.0088	0.0027
Venus	86636-11-19 07:12 G	33364531.61	33364531.80	33364532.02	0.0088	0.0037
Venus	86637-07-02 20:24 G	33364757.17	33364757.35	33364757.55	0.0088	0.0047
Venus	86638-02-13 09:36 G	33364982.74	33364982.90	33364983.08	0.0088	0.0056
Venus	86638-09-26 22:34 G	33365208.32	33365208.44	33365208.61	0.0088	0.0067
Venus	86639-05-10 11:46 G	33365433.91	33365433.99	33365434.13	0.0088	0.0077
Venus	86639-12-22 00:58 G	33365659.52	33365659.54	33365659.62	0.0088	0.0087
Moon	86644-06-24 15:36 G	33367306.08	33367306.15	33367306.25	0.0088	0.0083
Earth	86644-06-24 18:15 G	33367306.19	33367306.26	33367306.40	0.0088	0.0081 *

Earth	86645-06-27 06:00 G	33367673.58	33367673.75	33367673.95	0.0088	0.0060
Moon	86645-06-27 09:22 G	33367673.72	33367673.89	33367674.11	0.0088	0.0056 *
Moon	86646-06-29 14:10 G	33368040.87	33368041.09	33368041.31	0.0088	0.0044
Earth	86646-06-29 17:32 G	33368041.01	33368041.23	33368041.47	0.0088	0.0041 *
Earth	86647-07-02 04:34 G	33368408.45	33368408.69	33368408.95	0.0088	0.0021
Moon	86647-07-02 07:27 G	33368408.56	33368408.81	33368409.08	0.0088	0.0017 *
Moon	86648-07-03 13:56 G	33368775.83	33368776.08	33368776.33	0.0088	0.0006
Earth	86648-07-03 16:05 G	33368775.91	33368776.17	33368776.43	0.0088	0.0001 *
Earth	86649-07-06 03:08 G	33369143.39	33369143.63	33369143.89	0.0088	0.0019
Moon	86649-07-06 03:36 G	33369143.41	33369143.65	33369143.92	0.0088	0.0023 *
Earth	86650-07-08 14:24 G	33369510.88	33369511.10	33369511.34	0.0088	0.0038
Moon	86650-07-08 14:24 G	33369510.89	33369511.10	33369511.35	0.0088	0.0035 *
Moon	86651-07-11 00:15 G	33369878.34	33369878.51	33369878.71	0.0088	0.0062
Earth	86651-07-11 01:41 G	33369878.39	33369878.57	33369878.78	0.0088	0.0058 *
Earth	86652-07-12 12:44 G	33370245.94	33370246.03	33370246.18	0.0088	0.0078
Moon	86652-07-12 15:36 G	33370246.04	33370246.15	33370246.31	0.0088	0.0074 *
Mercury	86668-12-22 15:08 G	33376253.10	33376253.13	33376253.18	0.0088	0.0084
Mercury	86669-03-20 16:34 G	33376341.13	33376341.19	33376341.26	0.0088	0.0077
Mercury	86669-06-16 17:46 G	33376429.18	33376429.24	33376429.34	0.0088	0.0070
Mercury	86669-09-12 19:12 G	33376517.22	33376517.30	33376517.41	0.0088	0.0063
Mercury	86669-12-09 20:53 G	33376605.27	33376605.37	33376605.48	0.0088	0.0055
Mercury	86670-03-07 22:20 G	33376693.32	33376693.43	33376693.55	0.0088	0.0048
Mercury	86670-06-03 23:32 G	33376781.37	33376781.48	33376781.61	0.0088	0.0041
Mercury	86670-08-31 00:58 G	33376869.42	33376869.54	33376869.68	0.0088	0.0034
Mercury	86670-11-27 02:39 G	33376957.48	33376957.61	33376957.74	0.0088	0.0026
Mercury	86671-02-23 04:05 G	33377045.54	33377045.67	33377045.81	0.0088	0.0019
Mercury	86671-05-22 05:32 G	33377133.59	33377133.73	33377133.87	0.0088	0.0011
Mercury	86671-08-18 06:58 G	33377221.65	33377221.79	33377221.93	0.0088	0.0004
Mercury	86671-11-14 08:24 G	33377309.71	33377309.85	33377309.99	0.0088	0.0003
Mercury	86672-02-10 09:51 G	33377397.77	33377397.91	33377398.05	0.0088	0.0011

Mercury	86672-05-08 11:17 G	33377485.84	33377485.97	33377486.11	0.0088	0.0018
Mercury	86672-08-04 12:44 G	33377573.90	33377574.03	33377574.17	0.0088	0.0025
Mercury	86672-10-31 14:10 G	33377661.97	33377662.09	33377662.22	0.0088	0.0033
Mercury	86673-01-27 15:36 G	33377750.03	33377750.15	33377750.28	0.0088	0.0040
Mercury	86673-04-25 17:03 G	33377838.10	33377838.21	33377838.34	0.0088	0.0048
Mercury	86673-07-22 18:44 G	33377926.17	33377926.28	33377926.39	0.0088	0.0055
Mercury	86673-10-18 19:56 G	33378014.25	33378014.33	33378014.44	0.0088	0.0063
Mercury	86674-01-14 21:36 G	33378102.32	33378102.40	33378102.49	0.0088	0.0070
Mercury	86674-04-12 23:03 G	33378190.40	33378190.46	33378190.53	0.0088	0.0078
Mercury	86674-07-10 00:44 G	33378278.50	33378278.53	33378278.56	0.0088	0.0085
Mars	86680-12-11 04:48 G	33380624.39	33380624.70	33380625.03	0.0088	0.0022
Venus	86712-11-03 18:29 G	33392274.20	33392274.27	33392274.35	0.0089	0.0083
Venus	86713-06-17 06:44 G	33392499.69	33392499.78	33392499.93	0.0089	0.0074
Venus	86714-01-28 19:41 G	33392725.19	33392725.32	33392725.50	0.0089	0.0064
Venus	86714-09-11 08:53 G	33392950.71	33392950.87	33392951.06	0.0089	0.0054
Venus	86715-04-24 21:51 G	33393176.23	33393176.41	33393176.61	0.0089	0.0044
Venus	86715-12-06 10:34 G	33393401.75	33393401.94	33393402.16	0.0089	0.0034
Venus	86716-07-18 23:32 G	33393627.28	33393627.48	33393627.70	0.0089	0.0024
Venus	86717-03-01 12:29 G	33393852.81	33393853.02	33393853.24	0.0089	0.0014
Venus	86717-10-13 01:27 G	33394078.35	33394078.56	33394078.78	0.0089	0.0004
Venus	86718-05-26 14:24 G	33394303.88	33394304.10	33394304.32	0.0089	0.0006
Venus	86719-01-07 03:08 G	33394529.42	33394529.63	33394529.85	0.0089	0.0017
Venus	86719-08-20 15:51 G	33394754.97	33394755.16	33394755.38	0.0089	0.0027
Venus	86720-04-02 04:34 G	33394980.51	33394980.69	33394980.91	0.0089	0.0037
Venus	86720-11-13 17:32 G	33395206.06	33395206.23	33395206.43	0.0089	0.0047
Venus	86721-06-27 06:44 G	33395431.61	33395431.78	33395431.95	0.0089	0.0056
Venus	86722-02-07 19:27 G	33395657.17	33395657.31	33395657.46	0.0089	0.0066
Venus	86722-09-21 08:10 G	33395882.74	33395882.84	33395882.96	0.0089	0.0076
Venus	86723-05-04 20:53 G	33396108.33	33396108.37	33396108.44	0.0089	0.0086
Moon	86727-12-30 11:46 G	33397808.85	33397808.99	33397809.16	0.0089	0.0071

Earth	86727-12-30 15:22 G	33397809.01	33397809.14	33397809.30	0.0089	0.0073	*
Earth	86729-01-01 03:08 G	33398176.45	33398176.63	33398176.86	0.0089	0.0053	
Moon	86729-01-01 06:44 G	33398176.60	33398176.78	33398177.00	0.0089	0.0057	*
Moon	86730-01-03 12:58 G	33398543.81	33398544.04	33398544.29	0.0089	0.0031	
Earth	86730-01-03 15:36 G	33398543.92	33398544.15	33398544.40	0.0089	0.0033	*
Earth	86731-01-06 03:36 G	33398911.40	33398911.65	33398911.91	0.0089	0.0012	
Moon	86731-01-06 05:32 G	33398911.48	33398911.73	33398912.00	0.0089	0.0016	*
Moon	86732-01-08 14:53 G	33399278.88	33399279.12	33399279.37	0.0089	0.0011	
Earth	86732-01-08 15:51 G	33399278.91	33399279.16	33399279.42	0.0089	0.0009	*
Moon	86733-01-10 03:08 G	33399646.39	33399646.63	33399646.89	0.0089	0.0026	
Earth	86733-01-10 04:05 G	33399646.43	33399646.67	33399646.91	0.0089	0.0029	*
Earth	86734-01-12 15:36 G	33400013.95	33400014.15	33400014.38	0.0089	0.0049	
Moon	86734-01-12 16:48 G	33400014.02	33400014.20	33400014.43	0.0089	0.0053	*
Moon	86735-01-15 00:44 G	33400381.38	33400381.53	33400381.73	0.0089	0.0067	
Earth	86735-01-15 03:36 G	33400381.51	33400381.65	33400381.82	0.0089	0.0070	*
Mercury	86752-03-19 00:44 G	33406654.48	33406654.53	33406654.63	0.0090	0.0082	
Mercury	86752-06-15 04:20 G	33406742.58	33406742.68	33406742.80	0.0090	0.0071	
Mercury	86752-09-11 07:56 G	33406830.69	33406830.83	33406830.96	0.0090	0.0060	
Mercury	86752-12-08 10:48 G	33406918.81	33406918.95	33406919.12	0.0090	0.0050	
Mercury	86753-03-06 14:24 G	33407006.94	33407007.10	33407007.27	0.0090	0.0039	
Mercury	86753-06-02 17:32 G	33407095.06	33407095.23	33407095.41	0.0090	0.0029	
Mercury	86753-08-29 20:39 G	33407183.19	33407183.36	33407183.55	0.0090	0.0019	
Mercury	86753-11-26 00:00 G	33407271.32	33407271.50	33407271.69	0.0090	0.0008	
Mercury	86754-02-22 03:22 G	33407359.46	33407359.64	33407359.82	0.0090	0.0003	
Mercury	86754-05-21 06:29 G	33407447.59	33407447.77	33407447.95	0.0090	0.0013	
Mercury	86754-08-17 09:36 G	33407535.73	33407535.90	33407536.08	0.0090	0.0023	
Mercury	86754-11-13 12:44 G	33407623.87	33407624.03	33407624.21	0.0090	0.0034	
Mercury	86755-02-09 15:51 G	33407712.01	33407712.16	33407712.33	0.0090	0.0044	
Mercury	86755-05-08 19:12 G	33407800.16	33407800.30	33407800.45	0.0090	0.0054	
Mercury	86755-08-04 21:51 G	33407888.31	33407888.41	33407888.56	0.0090	0.0065	



Mercury	86755-11-01 00:58 G	33407976.46	33407976.54	33407976.66	0.0090	0.0075
Mercury	86756-01-28 04:05 G	33408064.63	33408064.67	33408064.75	0.0090	0.0085
Mars	86762-08-30 14:24 G	33410470.82	33410471.10	33410471.40	0.0090	0.0015
Venus	86793-09-25 04:05 G	33421819.63	33421819.67	33421819.73	0.0089	0.0086
Venus	86794-05-08 17:17 G	33422045.12	33422045.22	33422045.34	0.0089	0.0076
Venus	86794-12-20 06:29 G	33422270.63	33422270.77	33422270.92	0.0089	0.0066
Venus	86795-08-02 19:56 G	33422496.16	33422496.33	33422496.50	0.0089	0.0056
Venus	86796-03-15 09:08 G	33422721.70	33422721.88	33422722.07	0.0089	0.0046
Venus	86796-10-26 22:05 G	33422947.23	33422947.42	33422947.64	0.0089	0.0036
Venus	86797-06-09 11:32 G	33423172.77	33423172.98	33423173.19	0.0089	0.0026
Venus	86798-01-21 00:44 G	33423398.31	33423398.53	33423398.75	0.0089	0.0016
Venus	86798-09-03 13:56 G	33423623.86	33423624.08	33423624.30	0.0089	0.0006
Venus	86799-04-17 03:08 G	33423849.41	33423849.63	33423849.86	0.0089	0.0004
Venus	86799-11-28 16:05 G	33424074.96	33424075.17	33424075.40	0.0089	0.0015
Venus	86800-07-11 05:17 G	33424300.52	33424300.72	33424300.94	0.0088	0.0024
Venus	86801-02-21 18:15 G	33424526.07	33424526.26	33424526.48	0.0088	0.0035
Venus	86801-10-05 07:27 G	33424751.64	33424751.81	33424752.02	0.0088	0.0045
Venus	86802-05-18 20:39 G	33424977.20	33424977.36	33424977.55	0.0088	0.0055
Venus	86802-12-30 09:36 G	33425202.77	33425202.90	33425203.08	0.0088	0.0065
Venus	86803-08-12 23:17 G	33425428.35	33425428.47	33425428.59	0.0088	0.0074
Venus	86804-03-25 12:29 G	33425653.96	33425654.02	33425654.09	0.0088	0.0084
Jupiter	86808-05-01 18:58 G	33427151.78	33427152.29	33427152.83	0.0088	0.0014
Earth	86808-06-25 04:34 G	33427206.65	33427206.69	33427206.78	0.0088	0.0085
Moon	86808-06-25 08:24 G	33427206.85	33427206.85	33427206.87	0.0088	0.0088
Moon	86809-06-27 12:29 G	33427573.87	33427574.02	33427574.22	0.0088	0.0063
Earth	86809-06-27 16:20 G	33427574.02	33427574.18	33427574.36	0.0088	0.0066 *
Earth	86810-06-30 03:08 G	33427941.43	33427941.63	33427941.88	0.0088	0.0046
Moon	86810-06-30 05:46 G	33427941.54	33427941.74	33427941.98	0.0088	0.0049 *
Moon	86811-07-02 13:41 G	33428308.83	33428309.07	33428309.31	0.0088	0.0024
Earth	86811-07-02 14:53 G	33428308.88	33428309.12	33428309.37	0.0088	0.0026 *

Earth	86812-07-04 02:10 G	33428676.33	33428676.59	33428676.85	0.0088	0.0006
Moon	86812-07-04 02:39 G	33428676.35	33428676.61	33428676.89	0.0088	0.0009 *
Earth	86813-07-06 13:27 G	33429043.81	33429044.06	33429044.32	0.0088	0.0013
Moon	86813-07-06 14:24 G	33429043.86	33429044.10	33429044.35	0.0088	0.0016 *
Moon	86814-07-08 22:20 G	33429411.19	33429411.43	33429411.69	0.0088	0.0030
Earth	86814-07-09 00:29 G	33429411.29	33429411.52	33429411.77	0.0088	0.0033 *
Earth	86815-07-11 11:46 G	33429778.79	33429778.99	33429779.21	0.0088	0.0052
Moon	86815-07-11 14:10 G	33429778.91	33429779.09	33429779.31	0.0088	0.0055 *
Moon	86816-07-12 19:12 G	33430146.16	33430146.30	33430146.48	0.0088	0.0069
Earth	86816-07-12 22:48 G	33430146.33	33430146.45	33430146.62	0.0088	0.0072 *
Mercury	86833-06-23 13:27 G	33436336.06	33436336.06	33436336.09	0.0088	0.0087
Mercury	86833-09-19 14:53 G	33436424.08	33436424.12	33436424.19	0.0088	0.0080
Mercury	86833-12-16 16:20 G	33436512.11	33436512.18	33436512.27	0.0088	0.0073
Mercury	86834-03-14 18:00 G	33436600.16	33436600.25	33436600.34	0.0088	0.0065
Mercury	86834-06-10 19:12 G	33436688.21	33436688.30	33436688.41	0.0088	0.0058
Mercury	86834-09-06 20:39 G	33436776.25	33436776.36	33436776.48	0.0088	0.0051
Mercury	86834-12-03 22:05 G	33436864.31	33436864.42	33436864.54	0.0088	0.0043
Mercury	86835-03-01 23:32 G	33436952.36	33436952.48	33436952.61	0.0088	0.0036
Mercury	86835-05-29 00:58 G	33437040.41	33437040.54	33437040.67	0.0088	0.0029
Mercury	86835-08-25 02:24 G	33437128.47	33437128.60	33437128.74	0.0088	0.0022
Mercury	86835-11-21 03:51 G	33437216.53	33437216.66	33437216.80	0.0088	0.0014
Mercury	86836-02-17 05:17 G	33437304.58	33437304.72	33437304.86	0.0088	0.0007
Mercury	86836-05-15 06:44 G	33437392.64	33437392.78	33437392.92	0.0088	0.0002
Mercury	86836-08-11 08:10 G	33437480.70	33437480.84	33437480.98	0.0088	0.0008
Mercury	86836-11-07 09:36 G	33437568.77	33437568.90	33437569.04	0.0088	0.0015
Mercury	86837-02-03 11:03 G	33437656.83	33437656.96	33437657.10	0.0088	0.0023
Mercury	86837-05-02 12:29 G	33437744.90	33437745.02	33437745.16	0.0088	0.0030
Mercury	86837-07-29 13:56 G	33437832.96	33437833.08	33437833.21	0.0088	0.0037
Mercury	86837-10-25 15:22 G	33437921.03	33437921.14	33437921.27	0.0088	0.0045
Mercury	86838-01-21 17:03 G	33438009.10	33438009.21	33438009.32	0.0088	0.0052

Mercury	86838-04-19 18:15 G	33438097.17	33438097.26	33438097.37	0.0088	0.0060
Mercury	86838-07-16 19:56 G	33438185.25	33438185.33	33438185.42	0.0088	0.0067
Mercury	86838-10-12 21:08 G	33438273.32	33438273.38	33438273.47	0.0088	0.0075
Mercury	86839-01-08 22:48 G	33438361.41	33438361.45	33438361.50	0.0088	0.0082
Mars	86844-07-26 07:12 G	33440386.49	33440386.80	33440387.12	0.0088	0.0028
Venus	86877-02-05 05:32 G	33452268.70	33452268.73	33452268.80	0.0089	0.0086
Venus	86877-09-18 18:44 G	33452494.18	33452494.28	33452494.40	0.0089	0.0076
Venus	86878-05-02 07:41 G	33452719.68	33452719.82	33452719.97	0.0089	0.0066
Venus	86878-12-13 20:39 G	33452945.19	33452945.36	33452945.53	0.0089	0.0056
Venus	86879-07-27 08:53 G	33453170.71	33453170.87	33453171.08	0.0089	0.0047
Venus	86880-03-08 21:51 G	33453396.23	33453396.41	33453396.63	0.0089	0.0037
Venus	86880-10-20 10:48 G	33453621.76	33453621.95	33453622.17	0.0089	0.0027
Venus	86881-06-03 00:00 G	33453847.28	33453847.50	33453847.71	0.0089	0.0016
Venus	86882-01-14 12:44 G	33454072.81	33454073.03	33454073.25	0.0089	0.0006
Venus	86882-08-28 01:41 G	33454298.35	33454298.57	33454298.79	0.0089	0.0004
Venus	86883-04-10 14:24 G	33454523.89	33454524.10	33454524.32	0.0089	0.0014
Venus	86883-11-22 03:08 G	33454749.43	33454749.63	33454749.85	0.0089	0.0024
Venus	86884-07-04 16:05 G	33454974.97	33454975.17	33454975.38	0.0089	0.0034
Venus	86885-02-15 04:48 G	33455200.52	33455200.70	33455200.90	0.0089	0.0044
Venus	86885-09-28 17:46 G	33455426.08	33455426.24	33455426.43	0.0089	0.0054
Venus	86886-05-12 06:29 G	33455651.64	33455651.77	33455651.94	0.0089	0.0064
Venus	86886-12-23 19:12 G	33455877.20	33455877.30	33455877.44	0.0089	0.0074
Venus	86887-08-06 07:56 G	33456102.78	33456102.83	33456102.93	0.0089	0.0084
Earth	86891-12-30 00:29 G	33457709.43	33457709.52	33457709.67	0.0089	0.0079
Moon	86891-12-30 03:51 G	33457709.53	33457709.66	33457709.82	0.0089	0.0075 *
Moon	86892-12-31 10:05 G	33458076.77	33458076.92	33458077.12	0.0089	0.0063
Earth	86892-12-31 12:58 G	33458076.86	33458077.04	33458077.25	0.0089	0.0059 *
Earth	86894-01-03 00:58 G	33458444.32	33458444.54	33458444.78	0.0089	0.0039
Moon	86894-01-03 02:10 G	33458444.36	33458444.59	33458444.85	0.0089	0.0034 *
Moon	86895-01-05 12:58 G	33458811.81	33458812.04	33458812.29	0.0089	0.0022

Earth	86895-01-05 13:12 G	33458811.81	33458812.05	33458812.31	0.0089	0.0018	*
Moon	86896-01-08 00:44 G	33459179.27	33459179.53	33459179.80	0.0089	0.0007	
Earth	86896-01-08 01:27 G	33459179.31	33459179.56	33459179.82	0.0089	0.0003	*
Earth	86897-01-09 13:12 G	33459546.82	33459547.05	33459547.31	0.0089	0.0023	
Moon	86897-01-09 15:51 G	33459546.91	33459547.16	33459547.40	0.0089	0.0019	*
Moon	86898-01-11 22:20 G	33459914.23	33459914.43	33459914.67	0.0089	0.0048	
Earth	86898-01-12 01:12 G	33459914.35	33459914.55	33459914.80	0.0089	0.0044	*
Earth	86899-01-14 13:27 G	33460281.90	33460282.06	33460282.25	0.0089	0.0064	
Moon	86899-01-14 16:34 G	33460282.03	33460282.19	33460282.40	0.0089	0.0061	*
Moon	86900-01-16 21:36 G	33460649.39	33460649.40	33460649.47	0.0089	0.0089	
Earth	86900-01-17 01:41 G	33460649.49	33460649.57	33460649.67	0.0089	0.0084	
Mercury	86916-09-17 20:39 G	33466737.32	33466737.36	33466737.42	0.0090	0.0086	
Mercury	86916-12-15 00:15 G	33466825.41	33466825.51	33466825.61	0.0090	0.0075	
Mercury	86917-03-13 03:08 G	33466913.52	33466913.63	33466913.77	0.0090	0.0065	
Mercury	86917-06-09 06:44 G	33467001.64	33467001.78	33467001.93	0.0090	0.0054	
Mercury	86917-09-05 09:51 G	33467089.76	33467089.91	33467090.08	0.0090	0.0044	
Mercury	86917-12-02 13:27 G	33467177.88	33467178.06	33467178.23	0.0090	0.0033	
Mercury	86918-02-28 16:34 G	33467266.01	33467266.19	33467266.37	0.0090	0.0023	
Mercury	86918-05-27 19:41 G	33467354.14	33467354.32	33467354.51	0.0090	0.0013	
Mercury	86918-08-23 23:03 G	33467442.28	33467442.46	33467442.64	0.0090	0.0002	
Mercury	86918-11-20 02:10 G	33467530.41	33467530.59	33467530.78	0.0090	0.0009	
Mercury	86919-02-16 05:17 G	33467618.55	33467618.72	33467618.91	0.0090	0.0019	
Mercury	86919-05-15 08:39 G	33467706.69	33467706.86	33467707.03	0.0090	0.0029	
Mercury	86919-08-11 11:32 G	33467794.83	33467794.98	33467795.16	0.0090	0.0040	
Mercury	86919-11-07 14:39 G	33467882.97	33467883.11	33467883.28	0.0090	0.0050	
Mercury	86920-02-03 18:00 G	33467971.12	33467971.25	33467971.39	0.0090	0.0060	
Mercury	86920-05-01 21:08 G	33468059.27	33468059.38	33468059.50	0.0090	0.0070	
Mercury	86920-07-29 00:29 G	33468147.44	33468147.52	33468147.60	0.0090	0.0080	
Mars	86926-04-15 20:10 G	33470234.08	33470234.34	33470234.63	0.0090	0.0033	
Venus	86957-12-28 14:53 G	33481814.12	33481814.12	33481814.13	0.0089	0.0089	

Venus	86958-08-11 03:51 G	33482039.57	33482039.66	33482039.77	0.0089	0.0079
Venus	86959-03-24 17:03 G	33482265.09	33482265.21	33482265.36	0.0089	0.0069
Venus	86959-11-05 06:15 G	33482490.61	33482490.76	33482490.94	0.0089	0.0059
Venus	86960-06-17 19:27 G	33482716.14	33482716.31	33482716.50	0.0089	0.0049
Venus	86961-01-29 08:39 G	33482941.67	33482941.86	33482942.07	0.0089	0.0039
Venus	86961-09-11 22:05 G	33483167.21	33483167.42	33483167.63	0.0089	0.0029
Venus	86962-04-25 11:17 G	33483392.76	33483392.97	33483393.19	0.0089	0.0019
Venus	86962-12-07 00:29 G	33483618.30	33483618.52	33483618.74	0.0089	0.0009
Venus	86963-07-20 13:41 G	33483843.85	33483844.07	33483844.30	0.0089	0.0002
Venus	86964-03-02 02:53 G	33484069.41	33484069.62	33484069.85	0.0088	0.0012
Venus	86964-10-13 16:05 G	33484294.96	33484295.17	33484295.39	0.0088	0.0022
Venus	86965-05-27 05:17 G	33484520.52	33484520.72	33484520.93	0.0088	0.0032
Venus	86966-01-07 18:29 G	33484746.08	33484746.27	33484746.47	0.0088	0.0042
Venus	86966-08-21 07:27 G	33484971.64	33484971.81	33484972.00	0.0088	0.0052
Venus	86967-04-03 20:53 G	33485197.22	33485197.37	33485197.54	0.0088	0.0062
Venus	86967-11-15 09:51 G	33485422.80	33485422.91	33485423.05	0.0088	0.0072
Venus	86968-06-27 22:48 G	33485648.39	33485648.45	33485648.56	0.0088	0.0082
Moon	86972-06-25 12:00 G	33487106.99	33487107.00	33487107.05	0.0088	0.0088
Earth	86973-06-28 02:10 G	33487474.45	33487474.59	33487474.76	0.0088	0.0071
Moon	86973-06-28 04:20 G	33487474.57	33487474.68	33487474.85	0.0088	0.0074 *
Moon	86974-06-30 12:15 G	33487841.82	33487842.01	33487842.24	0.0088	0.0048
Earth	86974-06-30 13:27 G	33487841.87	33487842.06	33487842.29	0.0088	0.0051 *
Moon	86975-07-03 00:15 G	33488209.28	33488209.51	33488209.77	0.0088	0.0034
Earth	86975-07-03 00:58 G	33488209.30	33488209.54	33488209.79	0.0088	0.0031 *
Earth	86976-07-04 12:15 G	33488576.76	33488577.01	33488577.28	0.0088	0.0012
Moon	86976-07-04 13:27 G	33488576.81	33488577.06	33488577.31	0.0088	0.0008 *
Moon	86977-07-06 21:08 G	33488944.12	33488944.38	33488944.65	0.0088	0.0004
Earth	86977-07-06 23:46 G	33488944.23	33488944.49	33488944.75	0.0088	0.0008 *
Earth	86978-07-09 10:34 G	33489311.71	33489311.94	33489312.20	0.0088	0.0028
Moon	86978-07-09 13:41 G	33489311.85	33489312.07	33489312.33	0.0088	0.0031 *

Moon	86979-07-11 18:29 G	33489679.05	33489679.27	33489679.51	0.0088	0.0043
Earth	86979-07-11 21:51 G	33489679.21	33489679.41	33489679.65	0.0088	0.0047 *
Earth	86980-07-13 08:39 G	33490046.72	33490046.86	33490047.06	0.0088	0.0067
Moon	86980-07-13 12:29 G	33490046.89	33490047.02	33490047.20	0.0088	0.0071 *
Moon	86981-07-15 17:17 G	33490414.17	33490414.22	33490414.34	0.0088	0.0083
Earth	86981-07-15 20:10 G	33490414.31	33490414.34	33490414.42	0.0088	0.0086 *
Mercury	86998-03-21 13:12 G	33496507.02	33496507.05	33496507.10	0.0088	0.0083
Mercury	86998-06-17 14:39 G	33496595.05	33496595.11	33496595.18	0.0088	0.0076
Mercury	86998-09-13 15:51 G	33496683.09	33496683.16	33496683.26	0.0088	0.0069
Mercury	86998-12-10 17:17 G	33496771.14	33496771.22	33496771.33	0.0088	0.0062
Mercury	86999-03-08 18:58 G	33496859.19	33496859.29	33496859.40	0.0088	0.0054
Mercury	86999-06-04 20:24 G	33496947.24	33496947.35	33496947.47	0.0088	0.0047
Mercury	86999-08-31 21:36 G	33497035.29	33497035.40	33497035.53	0.0088	0.0040
Mercury	86999-11-27 23:03 G	33497123.34	33497123.46	33497123.60	0.0088	0.0033
Mercury	87000-02-24 00:44 G	33497211.40	33497211.53	33497211.66	0.0088	0.0025
Mercury	87000-05-23 02:10 G	33497299.45	33497299.59	33497299.72	0.0088	0.0018
Mercury	87000-08-19 03:36 G	33497387.51	33497387.65	33497387.79	0.0088	0.0010
Mercury	87000-11-15 05:03 G	33497475.57	33497475.71	33497475.85	0.0088	0.0003

# 88TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 88th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
--------	-------------------------	---	-------	-----	-----	--------	-------	---

Mercury	87001-02-11 06:29 G	33497563.63	33497563.77	33497563.91	0.0088	0.0004
Mercury	87001-05-10 07:56 G	33497651.69	33497651.83	33497651.97	0.0088	0.0012
Mercury	87001-08-06 09:22 G	33497739.75	33497739.89	33497740.03	0.0088	0.0019
Mercury	87001-11-02 10:48 G	33497827.82	33497827.95	33497828.08	0.0088	0.0026
Mercury	87002-01-29 12:15 G	33497915.88	33497916.01	33497916.14	0.0088	0.0034
Mercury	87002-04-27 13:27 G	33498003.95	33498004.06	33498004.20	0.0088	0.0042
Mercury	87002-07-24 15:08 G	33498092.02	33498092.13	33498092.25	0.0088	0.0049
Mercury	87002-10-20 16:48 G	33498180.09	33498180.20	33498180.30	0.0088	0.0056
Mercury	87003-01-16 18:00 G	33498268.16	33498268.25	33498268.35	0.0088	0.0064
Mercury	87003-04-14 19:41 G	33498356.24	33498356.32	33498356.40	0.0088	0.0071
Mercury	87003-07-11 20:53 G	33498444.32	33498444.37	33498444.44	0.0088	0.0079
Mercury	87003-10-07 22:34 G	33498532.42	33498532.44	33498532.47	0.0088	0.0086
Mars	87008-03-11 06:29 G	33500148.65	33500148.77	33500148.93	0.0088	0.0079
Mars	87010-02-04 22:20 G	33500844.18	33500844.43	33500844.70	0.0088	0.0055
Venus	87041-12-23 05:46 G	33512488.66	33512488.74	33512488.85	0.0089	0.0079
Venus	87042-08-05 18:44 G	33512714.16	33512714.28	33512714.43	0.0089	0.0069
Venus	87043-03-19 07:41 G	33512939.67	33512939.82	33512939.99	0.0089	0.0059
Venus	87043-10-30 20:39 G	33513165.18	33513165.36	33513165.55	0.0089	0.0049
Venus	87044-06-12 09:22 G	33513390.70	33513390.89	33513391.10	0.0089	0.0039
Venus	87045-01-23 22:20 G	33513616.23	33513616.43	33513616.64	0.0089	0.0029
Venus	87045-09-06 11:17 G	33513841.76	33513841.97	33513842.19	0.0089	0.0019
Venus	87046-04-20 00:15 G	33514067.29	33514067.51	33514067.73	0.0089	0.0009
Venus	87046-12-01 12:58 G	33514292.82	33514293.04	33514293.26	0.0089	0.0001
Venus	87047-07-15 01:41 G	33514518.36	33514518.57	33514518.79	0.0089	0.0011
Venus	87048-02-25 14:39 G	33514743.89	33514744.11	33514744.32	0.0089	0.0021
Venus	87048-10-08 03:36 G	33514969.44	33514969.65	33514969.85	0.0089	0.0031
Venus	87049-05-21 16:20 G	33515194.99	33515195.18	33515195.38	0.0089	0.0041
Venus	87050-01-02 05:03 G	33515420.54	33515420.71	33515420.90	0.0089	0.0051
Venus	87050-08-15 18:00 G	33515646.10	33515646.25	33515646.41	0.0089	0.0061
Venus	87051-03-29 06:44 G	33515871.66	33515871.78	33515871.92	0.0089	0.0071

Venus	87051-11-09 19:27 G	33516097.24	33516097.31	33516097.41	0.0089	0.0081
Moon	87055-12-31 08:10 G	33517609.79	33517609.84	33517609.94	0.0089	0.0085
Earth	87055-12-31 09:51 G	33517609.85	33517609.91	33517610.02	0.0089	0.0085 *
Earth	87057-01-01 21:51 G	33517977.26	33517977.41	33517977.61	0.0089	0.0065
Moon	87057-01-01 23:17 G	33517977.30	33517977.47	33517977.68	0.0089	0.0062 *
Earth	87058-01-04 10:05 G	33518344.72	33518344.92	33518345.16	0.0089	0.0044
Moon	87058-01-04 10:34 G	33518344.74	33518344.94	33518345.17	0.0089	0.0046 *
Moon	87059-01-06 20:39 G	33518712.11	33518712.36	33518712.63	0.0089	0.0023
Earth	87059-01-06 22:20 G	33518712.20	33518712.43	33518712.69	0.0089	0.0024 *
Earth	87060-01-09 10:34 G	33519079.69	33519079.94	33519080.20	0.0089	0.0004
Moon	87060-01-09 12:58 G	33519079.79	33519080.04	33519080.29	0.0089	0.0006 *
Moon	87061-01-10 18:58 G	33519447.05	33519447.29	33519447.56	0.0089	0.0019
Earth	87061-01-10 22:20 G	33519447.19	33519447.43	33519447.70	0.0089	0.0018 *
Earth	87062-01-13 10:20 G	33519814.71	33519814.93	33519815.18	0.0089	0.0038
Moon	87062-01-13 13:56 G	33519814.86	33519815.08	33519815.33	0.0089	0.0036 *
Moon	87063-01-15 18:44 G	33520182.12	33520182.28	33520182.49	0.0089	0.0061
Earth	87063-01-15 22:34 G	33520182.26	33520182.44	33520182.65	0.0089	0.0058 *
Earth	87064-01-18 10:34 G	33520549.83	33520549.94	33520550.08	0.0089	0.0078
Moon	87064-01-18 13:12 G	33520549.94	33520550.05	33520550.22	0.0089	0.0076 *
Mercury	87081-06-15 19:27 G	33526908.24	33526908.31	33526908.41	0.0090	0.0080
Mercury	87081-09-11 22:34 G	33526996.35	33526996.44	33526996.58	0.0090	0.0070
Mercury	87081-12-09 02:10 G	33527084.46	33527084.59	33527084.74	0.0090	0.0059
Mercury	87082-03-07 05:46 G	33527172.58	33527172.74	33527172.89	0.0090	0.0048
Mercury	87082-06-03 08:53 G	33527260.71	33527260.87	33527261.04	0.0090	0.0038
Mercury	87082-08-30 12:15 G	33527348.84	33527349.01	33527349.19	0.0090	0.0027
Mercury	87082-11-26 15:22 G	33527436.97	33527437.14	33527437.33	0.0090	0.0017
Mercury	87083-02-22 18:44 G	33527525.10	33527525.28	33527525.46	0.0090	0.0006
Mercury	87083-05-21 21:51 G	33527613.23	33527613.41	33527613.60	0.0090	0.0005
Mercury	87083-08-18 00:58 G	33527701.37	33527701.54	33527701.73	0.0090	0.0015
Mercury	87083-11-14 04:20 G	33527789.51	33527789.68	33527789.86	0.0090	0.0025



Mercury	87084-02-10 07:41 G	33527877.65	33527877.82	33527877.98	0.0090	0.0035
Mercury	87084-05-08 10:20 G	33527965.79	33527965.93	33527966.10	0.0090	0.0046
Mercury	87084-08-04 13:41 G	33528053.94	33528054.07	33528054.22	0.0090	0.0056
Mercury	87084-10-31 16:48 G	33528142.09	33528142.20	33528142.33	0.0090	0.0066
Mercury	87085-01-27 19:56 G	33528230.25	33528230.33	33528230.44	0.0090	0.0076
Mercury	87085-04-25 23:17 G	33528318.43	33528318.47	33528318.52	0.0090	0.0086
Mars	87089-11-30 03:36 G	33529997.54	33529997.65	33529997.80	0.0090	0.0080
Mars	87091-10-25 04:48 G	33530691.46	33530691.70	33530691.97	0.0090	0.0045
Venus	87122-11-14 14:39 G	33542034.04	33542034.11	33542034.21	0.0089	0.0082
Venus	87123-06-28 03:36 G	33542259.54	33542259.65	33542259.80	0.0089	0.0072
Venus	87124-02-08 16:48 G	33542485.06	33542485.20	33542485.38	0.0089	0.0062
Venus	87124-09-21 06:00 G	33542710.59	33542710.75	33542710.95	0.0089	0.0052
Venus	87125-05-04 19:12 G	33542936.12	33542936.30	33542936.51	0.0089	0.0042
Venus	87125-12-16 08:24 G	33543161.66	33543161.85	33543162.07	0.0089	0.0032
Venus	87126-07-29 21:36 G	33543387.20	33543387.40	33543387.63	0.0089	0.0022
Venus	87127-03-12 11:03 G	33543612.74	33543612.96	33543613.18	0.0089	0.0011
Venus	87127-10-24 00:15 G	33543838.29	33543838.51	33543838.74	0.0089	0.0002
Venus	87128-06-05 13:27 G	33544063.84	33544064.06	33544064.28	0.0088	0.0009
Venus	87129-01-17 02:39 G	33544289.39	33544289.61	33544289.83	0.0088	0.0019
Venus	87129-08-30 15:51 G	33544514.95	33544515.16	33544515.37	0.0088	0.0029
Venus	87130-04-13 04:48 G	33544740.52	33544740.70	33544740.92	0.0088	0.0040
Venus	87130-11-24 18:00 G	33544966.08	33544966.25	33544966.45	0.0088	0.0049
Venus	87131-07-08 06:58 G	33545191.65	33545191.79	33545191.98	0.0088	0.0060
Venus	87132-02-18 20:10 G	33545417.22	33545417.34	33545417.50	0.0088	0.0069
Venus	87132-10-01 09:51 G	33545642.81	33545642.91	33545643.01	0.0088	0.0079
Moon	87137-06-29 11:03 G	33547374.87	33547374.96	33547375.08	0.0088	0.0079
Earth	87137-06-29 11:17 G	33547374.87	33547374.97	33547375.13	0.0088	0.0076 *
Moon	87138-07-01 22:20 G	33547742.22	33547742.43	33547742.65	0.0088	0.0052
Earth	87138-07-01 22:48 G	33547742.26	33547742.45	33547742.66	0.0088	0.0057 *
Earth	87139-07-04 09:51 G	33548109.69	33548109.91	33548110.16	0.0088	0.0037

Moon	87139-07-04 12:00 G	33548109.80	33548110.00	33548110.24	0.0088	0.0041	*
Moon	87140-07-05 18:44 G	33548477.03	33548477.28	33548477.55	0.0088	0.0014	
Earth	87140-07-05 21:36 G	33548477.15	33548477.40	33548477.66	0.0088	0.0017	*
Earth	87141-07-08 08:53 G	33548844.61	33548844.87	33548845.13	0.0088	0.0002	
Moon	87141-07-08 12:29 G	33548844.76	33548845.02	33548845.27	0.0088	0.0002	*
Moon	87142-07-10 16:34 G	33549211.95	33549212.19	33549212.44	0.0088	0.0026	
Earth	87142-07-10 20:10 G	33549212.10	33549212.34	33549212.60	0.0088	0.0022	*
Earth	87143-07-13 06:58 G	33549579.59	33549579.79	33549580.04	0.0088	0.0042	
Moon	87143-07-13 10:20 G	33549579.72	33549579.93	33549580.19	0.0088	0.0039	*
Moon	87144-07-14 16:05 G	33549947.00	33549947.17	33549947.34	0.0088	0.0064	
Earth	87144-07-14 18:29 G	33549947.10	33549947.27	33549947.47	0.0088	0.0061	*
Earth	87145-07-17 06:00 G	33550314.66	33550314.75	33550314.86	0.0088	0.0080	
Moon	87145-07-17 06:58 G	33550314.69	33550314.79	33550314.94	0.0088	0.0077	*
Mercury	87162-09-21 11:46 G	33556589.97	33556589.99	33556590.01	0.0088	0.0086	
Mercury	87162-12-18 12:58 G	33556677.99	33556678.04	33556678.10	0.0088	0.0079	
Mercury	87163-03-16 14:24 G	33556766.03	33556766.10	33556766.18	0.0088	0.0072	
Mercury	87163-06-12 15:36 G	33556854.07	33556854.15	33556854.25	0.0088	0.0065	
Mercury	87163-09-08 17:03 G	33556942.12	33556942.21	33556942.32	0.0088	0.0058	
Mercury	87163-12-05 18:29 G	33557030.17	33557030.27	33557030.39	0.0088	0.0050	
Mercury	87164-03-02 19:41 G	33557118.22	33557118.32	33557118.45	0.0088	0.0044	
Mercury	87164-05-29 21:22 G	33557206.27	33557206.39	33557206.52	0.0088	0.0036	
Mercury	87164-08-25 22:48 G	33557294.32	33557294.45	33557294.58	0.0088	0.0029	
Mercury	87164-11-22 00:15 G	33557382.38	33557382.51	33557382.65	0.0088	0.0021	
Mercury	87165-02-18 01:41 G	33557470.44	33557470.57	33557470.71	0.0088	0.0014	
Mercury	87165-05-17 03:08 G	33557558.49	33557558.63	33557558.77	0.0088	0.0007	
Mercury	87165-08-13 04:34 G	33557646.55	33557646.69	33557646.83	0.0088	0.0001	
Mercury	87165-11-09 06:00 G	33557734.61	33557734.75	33557734.89	0.0088	0.0008	
Mercury	87166-02-05 07:27 G	33557822.68	33557822.81	33557822.95	0.0088	0.0015	
Mercury	87166-05-04 08:53 G	33557910.74	33557910.87	33557911.01	0.0088	0.0023	
Mercury	87166-07-31 10:20 G	33557998.80	33557998.93	33557999.06	0.0088	0.0030	

Mercury	87166-10-27 11:46 G	33558086.87	33558086.99	33558087.12	0.0088	0.0038
Mercury	87167-01-23 13:12 G	33558174.94	33558175.05	33558175.17	0.0088	0.0045
Mercury	87167-04-21 14:39 G	33558263.01	33558263.11	33558263.23	0.0088	0.0052
Mercury	87167-07-18 16:05 G	33558351.08	33558351.17	33558351.28	0.0088	0.0060
Mercury	87167-10-14 17:32 G	33558439.15	33558439.23	33558439.33	0.0088	0.0067
Mercury	87168-01-10 18:58 G	33558527.23	33558527.29	33558527.37	0.0088	0.0075
Mercury	87168-04-07 20:24 G	33558615.32	33558615.35	33558615.41	0.0088	0.0083
Mars	87173-09-19 19:56 G	33560606.00	33560606.33	33560606.67	0.0088	0.0004
Venus	87206-03-27 16:34 G	33572483.12	33572483.19	33572483.28	0.0089	0.0082
Venus	87206-11-08 05:32 G	33572708.61	33572708.73	33572708.86	0.0089	0.0072
Venus	87207-06-21 18:29 G	33572934.11	33572934.27	33572934.43	0.0089	0.0062
Venus	87208-02-02 07:12 G	33573159.63	33573159.80	33573159.98	0.0089	0.0052
Venus	87208-09-14 20:24 G	33573385.16	33573385.35	33573385.54	0.0089	0.0042
Venus	87209-04-28 09:08 G	33573610.68	33573610.88	33573611.09	0.0089	0.0032
Venus	87209-12-09 21:51 G	33573836.20	33573836.41	33573836.63	0.0089	0.0022
Venus	87210-07-23 10:48 G	33574061.73	33574061.95	33574062.17	0.0089	0.0012
Venus	87211-03-05 23:32 G	33574287.26	33574287.48	33574287.70	0.0089	0.0002
Venus	87211-10-17 12:29 G	33574512.81	33574513.02	33574513.24	0.0089	0.0008
Venus	87212-05-30 01:27 G	33574738.34	33574738.56	33574738.77	0.0089	0.0018
Venus	87213-01-10 14:10 G	33574963.88	33574964.09	33574964.30	0.0089	0.0028
Venus	87213-08-24 03:08 G	33575189.43	33575189.63	33575189.82	0.0089	0.0038
Venus	87214-04-06 15:51 G	33575414.98	33575415.16	33575415.34	0.0089	0.0048
Venus	87214-11-18 04:20 G	33575640.53	33575640.68	33575640.86	0.0089	0.0059
Venus	87215-07-01 17:32 G	33575866.09	33575866.23	33575866.37	0.0089	0.0068
Venus	87216-02-12 06:15 G	33576091.67	33576091.76	33576091.87	0.0089	0.0078
Venus	87216-09-24 19:12 G	33576317.29	33576317.30	33576317.33	0.0089	0.0088
Earth	87221-01-02 06:29 G	33577877.64	33577877.77	33577877.96	0.0089	0.0070
Moon	87221-01-02 07:41 G	33577877.66	33577877.82	33577878.00	0.0089	0.0066 *
Moon	87222-01-04 17:03 G	33578245.01	33578245.21	33578245.43	0.0089	0.0054
Earth	87222-01-04 19:12 G	33578245.10	33578245.30	33578245.52	0.0089	0.0050 *

Earth	87223-01-07 07:12 G	33578612.57	33578612.80	33578613.05	0.0089	0.0030
Moon	87223-01-07 10:34 G	33578612.70	33578612.94	33578613.18	0.0089	0.0025 *
Moon	87224-01-09 16:05 G	33578979.92	33578980.17	33578980.44	0.0089	0.0014
Earth	87224-01-09 19:27 G	33578980.06	33578980.31	33578980.57	0.0089	0.0010 *
Earth	87225-01-11 07:12 G	33579347.56	33579347.80	33579348.07	0.0089	0.0012
Moon	87225-01-11 11:17 G	33579347.72	33579347.97	33579348.22	0.0089	0.0016 *
Moon	87226-01-13 16:20 G	33579714.95	33579715.18	33579715.44	0.0089	0.0027
Earth	87226-01-13 19:27 G	33579715.08	33579715.31	33579715.56	0.0089	0.0031 *
Earth	87227-01-16 07:12 G	33580082.61	33580082.80	33580083.03	0.0089	0.0052
Moon	87227-01-16 09:51 G	33580082.73	33580082.91	33580083.14	0.0089	0.0056 *
Moon	87228-01-18 17:17 G	33580450.09	33580450.22	33580450.41	0.0089	0.0068
Earth	87228-01-18 19:12 G	33580450.17	33580450.30	33580450.47	0.0089	0.0072 *
Mercury	87245-12-15 14:24 G	33586991.07	33586991.10	33586991.18	0.0090	0.0086
Mercury	87246-03-13 18:00 G	33587079.16	33587079.25	33587079.37	0.0090	0.0075
Mercury	87246-06-09 21:36 G	33587167.27	33587167.40	33587167.53	0.0090	0.0064
Mercury	87246-09-06 00:44 G	33587255.39	33587255.53	33587255.69	0.0090	0.0054
Mercury	87246-12-03 04:05 G	33587343.52	33587343.67	33587343.84	0.0090	0.0043
Mercury	87247-03-01 07:27 G	33587431.64	33587431.81	33587431.99	0.0090	0.0033
Mercury	87247-05-28 10:48 G	33587519.77	33587519.95	33587520.13	0.0090	0.0022
Mercury	87247-08-24 13:56 G	33587607.90	33587608.08	33587608.27	0.0090	0.0012
Mercury	87247-11-20 17:17 G	33587696.04	33587696.22	33587696.41	0.0090	0.0002
Mercury	87248-02-16 20:24 G	33587784.18	33587784.35	33587784.54	0.0090	0.0010
Mercury	87248-05-14 23:46 G	33587872.31	33587872.49	33587872.67	0.0090	0.0020
Mercury	87248-08-11 02:53 G	33587960.45	33587960.62	33587960.80	0.0090	0.0030
Mercury	87248-11-07 06:00 G	33588048.60	33588048.75	33588048.92	0.0090	0.0041
Mercury	87249-02-03 09:08 G	33588136.74	33588136.88	33588137.04	0.0090	0.0051
Mercury	87249-05-02 12:15 G	33588224.89	33588225.01	33588225.16	0.0090	0.0061
Mercury	87249-07-29 15:36 G	33588313.05	33588313.15	33588313.27	0.0090	0.0071
Mercury	87249-10-25 18:44 G	33588401.21	33588401.28	33588401.36	0.0090	0.0081
Mars	87255-06-10 10:05 G	33590454.63	33590454.92	33590455.22	0.0090	0.0004

Venus	87287-02-16 00:58 G	33602028.50	33602028.54	33602028.62	0.0089	0.0085
Venus	87287-09-29 14:10 G	33602253.99	33602254.09	33602254.22	0.0089	0.0075
Venus	87288-05-12 03:22 G	33602479.50	33602479.64	33602479.80	0.0089	0.0065
Venus	87288-12-23 16:20 G	33602705.02	33602705.18	33602705.37	0.0089	0.0055
Venus	87289-08-06 05:32 G	33602930.55	33602930.73	33602930.93	0.0089	0.0045
Venus	87290-03-19 18:44 G	33603156.09	33603156.28	33603156.50	0.0089	0.0035
Venus	87290-10-31 07:56 G	33603381.63	33603381.83	33603382.05	0.0089	0.0025
Venus	87291-06-13 21:08 G	33603607.17	33603607.38	33603607.61	0.0089	0.0015
Venus	87292-01-25 10:20 G	33603832.71	33603832.93	33603833.16	0.0089	0.0005
Venus	87292-09-06 23:32 G	33604058.26	33604058.48	33604058.71	0.0088	0.0006
Venus	87293-04-20 12:44 G	33604283.82	33604284.03	33604284.26	0.0088	0.0017
Venus	87293-12-02 01:56 G	33604509.38	33604509.58	33604509.80	0.0088	0.0026
Venus	87294-07-15 14:53 G	33604734.94	33604735.12	33604735.34	0.0088	0.0037
Venus	87295-02-26 04:20 G	33604960.50	33604960.68	33604960.88	0.0088	0.0046
Venus	87295-10-09 17:32 G	33605186.07	33605186.23	33605186.41	0.0088	0.0056
Venus	87296-05-22 06:44 G	33605411.65	33605411.78	33605411.94	0.0088	0.0067
Venus	87297-01-02 19:41 G	33605637.23	33605637.32	33605637.45	0.0088	0.0077
Venus	87297-08-16 08:53 G	33605862.85	33605862.87	33605862.94	0.0088	0.0087
Moon	87301-06-29 19:41 G	33607275.23	33607275.32	33607275.46	0.0088	0.0080
Earth	87301-06-29 20:53 G	33607275.30	33607275.37	33607275.50	0.0088	0.0082 *
Earth	87302-07-02 08:39 G	33607642.68	33607642.86	33607643.04	0.0088	0.0062
Moon	87302-07-02 10:34 G	33607642.78	33607642.94	33607643.12	0.0088	0.0064 *
Moon	87303-07-04 16:20 G	33608009.95	33608010.18	33608010.41	0.0088	0.0041
Earth	87303-07-04 19:27 G	33608010.10	33608010.31	33608010.55	0.0088	0.0043 *
Earth	87304-07-06 06:29 G	33608377.53	33608377.77	33608378.03	0.0088	0.0023
Moon	87304-07-06 10:05 G	33608377.68	33608377.92	33608378.17	0.0088	0.0025 *
Moon	87305-07-08 14:24 G	33608744.84	33608745.10	33608745.36	0.0088	0.0001
Earth	87305-07-08 18:00 G	33608745.00	33608745.25	33608745.51	0.0088	0.0004 *
Earth	87306-07-11 05:17 G	33609112.47	33609112.72	33609112.97	0.0088	0.0016
Moon	87306-07-11 08:10 G	33609112.58	33609112.84	33609113.11	0.0088	0.0014 *

Moon	87307-07-13 14:24 G	33609479.88	33609480.10	33609480.33	0.0088	0.0038
Earth	87307-07-13 16:20 G	33609479.96	33609480.18	33609480.43	0.0088	0.0036 *
Earth	87308-07-15 03:36 G	33609847.47	33609847.65	33609847.87	0.0088	0.0055
Moon	87308-07-15 05:03 G	33609847.51	33609847.71	33609847.94	0.0088	0.0052 *
Earth	87309-07-17 14:24 G	33610215.00	33610215.10	33610215.27	0.0088	0.0075
Moon	87309-07-17 15:22 G	33610215.03	33610215.14	33610215.27	0.0088	0.0077 *
Mercury	87327-06-19 11:03 G	33616760.93	33616760.96	33616761.01	0.0088	0.0083
Mercury	87327-09-15 12:29 G	33616848.96	33616849.02	33616849.09	0.0088	0.0076
Mercury	87327-12-12 13:41 G	33616937.00	33616937.07	33616937.17	0.0088	0.0069
Mercury	87328-03-09 15:08 G	33617025.05	33617025.13	33617025.24	0.0088	0.0062
Mercury	87328-06-05 16:48 G	33617113.09	33617113.20	33617113.31	0.0088	0.0054
Mercury	87328-09-01 18:00 G	33617201.14	33617201.25	33617201.37	0.0088	0.0047
Mercury	87328-11-28 19:27 G	33617289.19	33617289.31	33617289.44	0.0088	0.0040
Mercury	87329-02-24 20:53 G	33617377.25	33617377.37	33617377.50	0.0088	0.0033
Mercury	87329-05-23 22:20 G	33617465.30	33617465.43	33617465.57	0.0088	0.0025
Mercury	87329-08-19 23:46 G	33617553.36	33617553.49	33617553.63	0.0088	0.0018
Mercury	87329-11-16 01:12 G	33617641.42	33617641.55	33617641.69	0.0088	0.0011
Mercury	87330-02-12 02:39 G	33617729.47	33617729.61	33617729.75	0.0088	0.0004
Mercury	87330-05-11 04:05 G	33617817.53	33617817.67	33617817.81	0.0088	0.0004
Mercury	87330-08-07 05:32 G	33617905.59	33617905.73	33617905.87	0.0088	0.0011
Mercury	87330-11-03 06:58 G	33617993.66	33617993.79	33617993.93	0.0088	0.0019
Mercury	87331-01-30 08:24 G	33618081.72	33618081.85	33618081.98	0.0088	0.0026
Mercury	87331-04-28 09:51 G	33618169.79	33618169.91	33618170.04	0.0088	0.0034
Mercury	87331-07-25 11:17 G	33618257.85	33618257.97	33618258.10	0.0088	0.0041
Mercury	87331-10-21 12:29 G	33618345.92	33618346.02	33618346.15	0.0088	0.0049
Mercury	87332-01-17 14:10 G	33618433.99	33618434.09	33618434.20	0.0088	0.0056
Mercury	87332-04-14 15:22 G	33618522.06	33618522.14	33618522.25	0.0088	0.0064
Mercury	87332-07-11 17:03 G	33618610.14	33618610.21	33618610.30	0.0088	0.0071
Mercury	87332-10-07 18:44 G	33618698.22	33618698.28	33618698.34	0.0088	0.0078
Mercury	87333-01-03 19:56 G	33618786.32	33618786.33	33618786.37	0.0088	0.0086

Mars	87337-05-04 17:17 G	33620367.94	33620368.22	33620368.51	0.0088	0.0047
Mars	87339-03-31 09:08 G	33621063.81	33621063.88	33621063.96	0.0088	0.0085
Venus	87370-06-30 02:10 G	33632477.57	33632477.59	33632477.68	0.0089	0.0086
Venus	87371-02-10 15:22 G	33632703.05	33632703.14	33632703.28	0.0089	0.0076
Venus	87371-09-24 04:34 G	33632928.56	33632928.69	33632928.85	0.0089	0.0066
Venus	87372-05-06 17:32 G	33633154.07	33633154.23	33633154.42	0.0089	0.0056
Venus	87372-12-18 06:15 G	33633379.59	33633379.76	33633379.97	0.0089	0.0046
Venus	87373-07-31 19:12 G	33633605.12	33633605.30	33633605.52	0.0089	0.0036
Venus	87374-03-14 08:24 G	33633830.64	33633830.85	33633831.06	0.0089	0.0025
Venus	87374-10-25 21:22 G	33634056.18	33634056.39	33634056.61	0.0089	0.0015
Venus	87375-06-08 10:20 G	33634281.71	33634281.93	33634282.15	0.0089	0.0005
Venus	87376-01-19 23:03 G	33634507.24	33634507.46	33634507.68	0.0089	0.0005
Venus	87376-09-01 12:00 G	33634732.78	33634733.00	33634733.21	0.0089	0.0015
Venus	87377-04-15 00:44 G	33634958.32	33634958.53	33634958.74	0.0089	0.0025
Venus	87377-11-26 13:27 G	33635183.86	33635184.06	33635184.26	0.0089	0.0035
Venus	87378-07-10 01:56 G	33635409.41	33635409.58	33635409.78	0.0089	0.0046
Venus	87379-02-20 14:39 G	33635634.96	33635635.11	33635635.30	0.0089	0.0056
Venus	87379-10-04 03:36 G	33635860.52	33635860.65	33635860.82	0.0089	0.0066
Venus	87380-05-16 16:48 G	33636086.09	33636086.20	33636086.32	0.0089	0.0075
Venus	87380-12-28 05:32 G	33636311.68	33636311.73	33636311.79	0.0089	0.0085
Moon	87385-01-02 11:32 G	33637777.86	33637777.98	33637778.14	0.0089	0.0075
Earth	87385-01-02 13:56 G	33637777.98	33637778.08	33637778.25	0.0089	0.0077 *
Earth	87386-01-05 02:24 G	33638145.42	33638145.60	33638145.82	0.0089	0.0056
Moon	87386-01-05 05:46 G	33638145.56	33638145.74	33638145.95	0.0089	0.0056 *
Moon	87387-01-07 11:03 G	33638512.74	33638512.96	33638513.22	0.0089	0.0036
Earth	87387-01-07 15:08 G	33638512.90	33638513.13	33638513.37	0.0089	0.0036 *
Earth	87388-01-10 03:08 G	33638880.38	33638880.63	33638880.88	0.0089	0.0015
Moon	87388-01-10 06:15 G	33638880.52	33638880.76	33638881.03	0.0089	0.0015 *
Moon	87389-01-11 12:15 G	33639247.76	33639248.01	33639248.26	0.0089	0.0004
Earth	87389-01-11 15:22 G	33639247.88	33639248.14	33639248.40	0.0089	0.0005 *

Earth	87390-01-14 03:22 G	33639615.40	33639615.64	33639615.89	0.0089	0.0025
Moon	87390-01-14 05:03 G	33639615.47	33639615.71	33639615.98	0.0089	0.0025 *
Moon	87391-01-16 14:10 G	33639982.89	33639983.09	33639983.32	0.0089	0.0044
Earth	87391-01-16 15:22 G	33639982.92	33639983.14	33639983.36	0.0089	0.0045 *
Moon	87392-01-19 03:08 G	33640350.46	33640350.63	33640350.82	0.0089	0.0066
Earth	87392-01-19 03:22 G	33640350.47	33640350.64	33640350.82	0.0089	0.0065 *
Earth	87393-01-20 15:22 G	33640718.07	33640718.14	33640718.22	0.0089	0.0085
Moon	87393-01-20 16:48 G	33640718.14	33640718.20	33640718.30	0.0089	0.0085 *
Mercury	87410-09-13 12:58 G	33647161.98	33647162.04	33647162.14	0.0090	0.0081
Mercury	87410-12-10 16:34 G	33647250.08	33647250.19	33647250.31	0.0090	0.0070
Mercury	87411-03-08 19:41 G	33647338.20	33647338.32	33647338.48	0.0090	0.0060
Mercury	87411-06-04 23:17 G	33647426.32	33647426.47	33647426.63	0.0090	0.0049
Mercury	87411-09-01 02:24 G	33647514.45	33647514.60	33647514.78	0.0090	0.0039
Mercury	87411-11-28 05:46 G	33647602.57	33647602.74	33647602.93	0.0090	0.0028
Mercury	87412-02-24 09:22 G	33647690.71	33647690.89	33647691.07	0.0090	0.0017
Mercury	87412-05-22 12:29 G	33647778.84	33647779.02	33647779.21	0.0090	0.0007
Mercury	87412-08-18 15:51 G	33647866.98	33647867.16	33647867.34	0.0090	0.0004
Mercury	87412-11-14 18:58 G	33647955.11	33647955.29	33647955.48	0.0090	0.0014
Mercury	87413-02-10 22:05 G	33648043.25	33648043.42	33648043.61	0.0090	0.0025
Mercury	87413-05-10 01:27 G	33648131.40	33648131.56	33648131.73	0.0090	0.0035
Mercury	87413-08-06 04:20 G	33648219.54	33648219.68	33648219.86	0.0090	0.0046
Mercury	87413-11-02 07:41 G	33648307.69	33648307.82	33648307.97	0.0090	0.0056
Mercury	87414-01-29 10:48 G	33648395.84	33648395.95	33648396.09	0.0090	0.0066
Mercury	87414-04-27 14:10 G	33648484.00	33648484.09	33648484.19	0.0090	0.0076
Mercury	87414-07-24 17:17 G	33648572.18	33648572.22	33648572.28	0.0090	0.0086
Mars	87419-01-25 14:53 G	33650217.92	33650218.12	33650218.39	0.0090	0.0053
Mars	87420-12-19 15:08 G	33650911.98	33650912.13	33650912.33	0.0090	0.0072
Venus	87451-05-22 11:03 G	33662022.96	33662022.96	33662023.02	0.0089	0.0088
Venus	87452-01-03 00:15 G	33662248.42	33662248.51	33662248.63	0.0089	0.0078
Venus	87452-08-15 13:27 G	33662473.93	33662474.06	33662474.21	0.0089	0.0068



Venus	87453-03-29 02:39 G	33662699.46	33662699.61	33662699.79	0.0089	0.0058
Venus	87453-11-09 15:51 G	33662924.98	33662925.16	33662925.35	0.0089	0.0048
Venus	87454-06-23 04:48 G	33663150.51	33663150.70	33663150.91	0.0089	0.0038
Venus	87455-02-03 18:00 G	33663376.05	33663376.25	33663376.47	0.0089	0.0028
Venus	87455-09-17 06:58 G	33663601.58	33663601.79	33663602.02	0.0089	0.0018
Venus	87456-04-29 20:24 G	33663827.13	33663827.35	33663827.57	0.0089	0.0007
Venus	87456-12-11 09:22 G	33664052.68	33664052.89	33664053.12	0.0089	0.0004
Venus	87457-07-24 22:20 G	33664278.22	33664278.43	33664278.66	0.0088	0.0014
Venus	87458-03-07 11:32 G	33664503.78	33664503.98	33664504.21	0.0088	0.0024
Venus	87458-10-19 00:44 G	33664729.34	33664729.53	33664729.75	0.0088	0.0034
Venus	87459-06-01 13:56 G	33664954.90	33664955.08	33664955.29	0.0088	0.0044
Venus	87460-01-13 03:08 G	33665180.47	33665180.63	33665180.82	0.0088	0.0054
Venus	87460-08-25 16:20 G	33665406.04	33665406.18	33665406.35	0.0088	0.0064
Venus	87461-04-08 05:32 G	33665631.63	33665631.73	33665631.87	0.0088	0.0074
Venus	87461-11-19 18:44 G	33665857.23	33665857.28	33665857.37	0.0088	0.0084
Earth	87465-06-30 06:00 G	33667175.72	33667175.75	33667175.82	0.0088	0.0086
Moon	87465-06-30 08:39 G	33667175.79	33667175.86	33667175.98	0.0088	0.0082 *
Moon	87466-07-02 13:56 G	33667542.94	33667543.08	33667543.25	0.0088	0.0071
Earth	87466-07-02 17:03 G	33667543.06	33667543.21	33667543.40	0.0088	0.0067 *
Earth	87467-07-05 03:51 G	33667910.47	33667910.66	33667910.90	0.0088	0.0049
Moon	87467-07-05 07:56 G	33667910.62	33667910.83	33667911.07	0.0088	0.0043 *
Moon	87468-07-06 12:15 G	33668277.79	33668278.01	33668278.26	0.0088	0.0033
Earth	87468-07-06 15:36 G	33668277.91	33668278.15	33668278.40	0.0088	0.0028 *
Earth	87469-07-09 02:24 G	33668645.35	33668645.60	33668645.86	0.0088	0.0009
Moon	87469-07-09 05:32 G	33668645.47	33668645.73	33668646.00	0.0088	0.0005 *
Moon	87470-07-11 12:15 G	33669012.76	33669013.01	33669013.26	0.0088	0.0006
Earth	87470-07-11 13:56 G	33669012.82	33669013.08	33669013.33	0.0088	0.0010 *
Earth	87471-07-14 00:44 G	33669380.30	33669380.53	33669380.79	0.0088	0.0030
Moon	87471-07-14 00:58 G	33669380.31	33669380.54	33669380.81	0.0088	0.0034 *
Earth	87472-07-15 12:15 G	33669747.80	33669748.01	33669748.23	0.0088	0.0049

Moon	87472-07-15 12:15 G	33669747.82	33669748.01	33669748.25	0.0088	0.0046 *
Moon	87473-07-17 20:53 G	33670115.25	33670115.37	33670115.55	0.0088	0.0073
Earth	87473-07-17 23:03 G	33670115.33	33670115.46	33670115.65	0.0088	0.0069 *
Earth	87474-07-20 10:48 G	33670482.95	33670482.95	33670482.97	0.0088	0.0088
Moon	87474-07-20 13:27 G	33670483.01	33670483.06	33670483.15	0.0088	0.0084
Mercury	87491-12-19 09:08 G	33676843.87	33676843.88	33676843.91	0.0088	0.0087
Mercury	87492-03-16 10:34 G	33676931.89	33676931.94	33676932.00	0.0088	0.0080
Mercury	87492-06-12 11:46 G	33677019.93	33677019.99	33677020.08	0.0088	0.0073
Mercury	87492-09-08 13:12 G	33677107.97	33677108.05	33677108.15	0.0088	0.0066
Mercury	87492-12-05 14:53 G	33677196.02	33677196.12	33677196.22	0.0088	0.0058
Mercury	87493-03-03 16:20 G	33677284.07	33677284.18	33677284.29	0.0088	0.0051
Mercury	87493-05-30 17:32 G	33677372.12	33677372.23	33677372.35	0.0088	0.0044
Mercury	87493-08-26 18:58 G	33677460.17	33677460.29	33677460.42	0.0088	0.0037
Mercury	87493-11-22 20:24 G	33677548.22	33677548.35	33677548.48	0.0088	0.0029
Mercury	87494-02-18 21:36 G	33677636.28	33677636.40	33677636.54	0.0088	0.0023
Mercury	87494-05-17 23:17 G	33677724.33	33677724.47	33677724.61	0.0088	0.0015
Mercury	87494-08-14 00:44 G	33677812.39	33677812.53	33677812.67	0.0088	0.0008
Mercury	87494-11-10 02:10 G	33677900.45	33677900.59	33677900.73	0.0088	0.0002
Mercury	87495-02-06 03:22 G	33677988.51	33677988.64	33677988.78	0.0088	0.0008
Mercury	87495-05-05 04:48 G	33678076.57	33678076.70	33678076.84	0.0088	0.0015
Mercury	87495-08-01 06:15 G	33678164.63	33678164.76	33678164.90	0.0088	0.0022
Mercury	87495-10-28 07:56 G	33678252.70	33678252.83	33678252.96	0.0088	0.0029
Mercury	87496-01-24 09:08 G	33678340.76	33678340.88	33678341.01	0.0088	0.0037
Mercury	87496-04-21 10:34 G	33678428.83	33678428.94	33678429.07	0.0088	0.0044
Mercury	87496-07-18 12:00 G	33678516.89	33678517.00	33678517.12	0.0088	0.0051
Mercury	87496-10-14 13:27 G	33678604.97	33678605.06	33678605.17	0.0088	0.0059
Mercury	87497-01-10 15:08 G	33678693.04	33678693.13	33678693.22	0.0088	0.0066
Mercury	87497-04-08 16:20 G	33678781.12	33678781.18	33678781.26	0.0088	0.0074
Mercury	87497-07-05 18:00 G	33678869.20	33678869.25	33678869.30	0.0088	0.0081
Mars	87502-11-14 04:05 G	33680825.38	33680825.67	33680826.00	0.0088	0.0034

Venus	87535-05-17 01:12 G	33692697.47	33692697.55	33692697.66	0.0089	0.0079
Venus	87535-12-28 14:10 G	33692922.97	33692923.09	33692923.24	0.0089	0.0069
Venus	87536-08-10 03:08 G	33693148.48	33693148.63	33693148.80	0.0089	0.0059
Venus	87537-03-23 16:05 G	33693374.00	33693374.17	33693374.36	0.0089	0.0049
Venus	87537-11-04 05:03 G	33693599.52	33693599.71	33693599.92	0.0089	0.0039
Venus	87538-06-17 18:00 G	33693825.05	33693825.25	33693825.46	0.0089	0.0029
Venus	87539-01-29 06:58 G	33694050.58	33694050.79	33694051.01	0.0089	0.0019
Venus	87539-09-11 19:56 G	33694276.12	33694276.33	33694276.55	0.0089	0.0009
Venus	87540-04-24 08:53 G	33694501.65	33694501.87	33694502.09	0.0089	0.0002
Venus	87540-12-05 21:36 G	33694727.19	33694727.40	33694727.62	0.0089	0.0012
Venus	87541-07-19 10:20 G	33694952.73	33694952.93	33694953.15	0.0089	0.0022
Venus	87542-03-01 23:17 G	33695178.27	33695178.47	33695178.68	0.0089	0.0032
Venus	87542-10-13 12:15 G	33695403.82	33695404.01	33695404.21	0.0089	0.0042
Venus	87543-05-27 00:58 G	33695629.37	33695629.54	33695629.73	0.0089	0.0052
Venus	87544-01-07 13:41 G	33695854.93	33695855.07	33695855.24	0.0089	0.0062
Venus	87544-08-20 02:39 G	33696080.49	33696080.61	33696080.74	0.0089	0.0072
Venus	87545-04-02 15:22 G	33696306.07	33696306.14	33696306.23	0.0089	0.0082
Earth	87549-01-03 20:53 G	33697678.30	33697678.37	33697678.50	0.0089	0.0082
Moon	87549-01-04 00:44 G	33697678.48	33697678.53	33697678.60	0.0089	0.0087 *
Jupiter	87549-11-09 04:05 G	33697987.16	33697987.67	33697988.24	0.0089	0.0025
Moon	87550-01-06 06:00 G	33698045.57	33698045.75	33698045.97	0.0089	0.0058
Earth	87550-01-06 09:36 G	33698045.74	33698045.90	33698046.10	0.0089	0.0062 *
Earth	87551-01-08 21:36 G	33698413.20	33698413.40	33698413.65	0.0089	0.0043
Moon	87551-01-09 00:58 G	33698413.34	33698413.54	33698413.79	0.0089	0.0048 *
Moon	87552-01-11 08:10 G	33698780.60	33698780.84	33698781.09	0.0089	0.0018
Earth	87552-01-11 10:20 G	33698780.69	33698780.93	33698781.19	0.0089	0.0022 *
Earth	87553-01-12 22:48 G	33699148.19	33699148.45	33699148.70	0.0089	0.0002
Moon	87553-01-13 00:29 G	33699148.26	33699148.52	33699148.79	0.0089	0.0007 *
Moon	87554-01-15 10:20 G	33699515.70	33699515.93	33699516.18	0.0089	0.0024
Earth	87554-01-15 10:34 G	33699515.70	33699515.94	33699516.20	0.0089	0.0019 *

Moon	87555-01-17 21:22 G	33699883.16	33699883.39	33699883.65	0.0089	0.0034
Earth	87555-01-17 22:34 G	33699883.22	33699883.44	33699883.68	0.0089	0.0039 *
Earth	87556-01-20 10:20 G	33700250.76	33700250.93	33700251.14	0.0089	0.0059
Moon	87556-01-20 12:00 G	33700250.85	33700251.00	33700251.20	0.0089	0.0064 *
Moon	87557-01-21 18:58 G	33700618.17	33700618.29	33700618.47	0.0089	0.0074
Earth	87557-01-21 22:20 G	33700618.33	33700618.43	33700618.58	0.0089	0.0079 *
Mercury	87575-03-15 07:41 G	33707244.80	33707244.82	33707244.87	0.0090	0.0088
Mercury	87575-06-11 11:17 G	33707332.88	33707332.97	33707333.07	0.0090	0.0077
Mercury	87575-09-07 14:24 G	33707420.99	33707421.10	33707421.24	0.0090	0.0067
Mercury	87575-12-04 17:46 G	33707509.11	33707509.24	33707509.40	0.0090	0.0056
Mercury	87576-03-01 21:22 G	33707597.23	33707597.39	33707597.55	0.0090	0.0045
Mercury	87576-05-29 00:29 G	33707685.36	33707685.52	33707685.70	0.0090	0.0035
Mercury	87576-08-25 04:05 G	33707773.49	33707773.67	33707773.85	0.0090	0.0024
Mercury	87576-11-21 07:12 G	33707861.62	33707861.80	33707861.99	0.0090	0.0014
Mercury	87577-02-17 10:34 G	33707949.76	33707949.94	33707950.13	0.0090	0.0004
Mercury	87577-05-16 13:56 G	33708037.90	33708038.08	33708038.26	0.0090	0.0008
Mercury	87577-08-12 17:03 G	33708126.04	33708126.21	33708126.40	0.0090	0.0018
Mercury	87577-11-08 20:24 G	33708214.18	33708214.35	33708214.53	0.0090	0.0029
Mercury	87578-02-04 23:32 G	33708302.32	33708302.48	33708302.65	0.0090	0.0039
Mercury	87578-05-04 02:39 G	33708390.47	33708390.61	33708390.78	0.0090	0.0050
Mercury	87578-07-31 05:46 G	33708478.62	33708478.74	33708478.89	0.0090	0.0060
Mercury	87578-10-27 09:08 G	33708566.78	33708566.88	33708567.00	0.0090	0.0070
Mercury	87579-01-23 12:29 G	33708654.94	33708655.02	33708655.10	0.0090	0.0080
Mars	87584-08-04 19:56 G	33710675.05	33710675.33	33710675.62	0.0090	0.0022
Venus	87616-04-06 10:20 G	33722242.85	33722242.93	33722243.03	0.0089	0.0081
Venus	87616-11-17 23:32 G	33722468.35	33722468.48	33722468.61	0.0089	0.0071
Venus	87617-07-01 12:29 G	33722693.87	33722694.02	33722694.19	0.0089	0.0061
Venus	87618-02-12 01:41 G	33722919.40	33722919.57	33722919.76	0.0089	0.0051
Venus	87618-09-25 14:39 G	33723144.93	33723145.11	33723145.32	0.0089	0.0041
Venus	87619-05-09 03:51 G	33723370.46	33723370.66	33723370.88	0.0089	0.0031

Venus	87619-12-20 17:03 G	33723596.00	33723596.21	33723596.43	0.0089	0.0021
Venus	87620-08-02 06:00 G	33723821.54	33723821.75	33723821.98	0.0089	0.0011
Venus	87621-03-15 19:27 G	33724047.09	33724047.31	33724047.53	0.0089	0.0001
Venus	87621-10-27 08:24 G	33724272.63	33724272.85	33724273.07	0.0089	0.0010
Venus	87622-06-09 21:22 G	33724498.18	33724498.39	33724498.62	0.0088	0.0020
Venus	87623-01-21 10:20 G	33724723.74	33724723.93	33724724.15	0.0088	0.0031
Venus	87623-09-03 23:32 G	33724949.30	33724949.48	33724949.69	0.0088	0.0041
Venus	87624-04-16 12:44 G	33725174.86	33725175.03	33725175.23	0.0088	0.0051
Venus	87624-11-28 01:56 G	33725400.43	33725400.58	33725400.76	0.0088	0.0061
Venus	87625-07-11 15:08 G	33725626.01	33725626.13	33725626.27	0.0088	0.0071
Venus	87626-02-22 04:20 G	33725851.60	33725851.68	33725851.78	0.0088	0.0081
Earth	87630-07-03 01:41 G	33727443.44	33727443.57	33727443.73	0.0088	0.0073
Moon	87630-07-03 04:48 G	33727443.58	33727443.70	33727443.88	0.0088	0.0072 *
Moon	87631-07-05 09:36 G	33727810.71	33727810.90	33727811.11	0.0088	0.0055
Earth	87631-07-05 12:44 G	33727810.84	33727811.03	33727811.25	0.0088	0.0053 *
Earth	87632-07-06 23:32 G	33728178.26	33728178.48	33728178.73	0.0088	0.0034
Moon	87632-07-07 01:41 G	33728178.34	33728178.57	33728178.83	0.0088	0.0033 *
Moon	87633-07-09 09:36 G	33728545.65	33728545.90	33728546.15	0.0088	0.0016
Earth	87633-07-09 10:48 G	33728545.70	33728545.95	33728546.21	0.0088	0.0015 *
Moon	87634-07-11 21:51 G	33728913.15	33728913.41	33728913.68	0.0088	0.0006
Earth	87634-07-11 21:51 G	33728913.16	33728913.41	33728913.67	0.0088	0.0005 *
Earth	87635-07-14 08:39 G	33729280.62	33729280.86	33729281.12	0.0088	0.0024
Moon	87635-07-14 10:20 G	33729280.70	33729280.93	33729281.18	0.0088	0.0023 *
Moon	87636-07-15 17:46 G	33729648.02	33729648.24	33729648.47	0.0088	0.0044
Earth	87636-07-15 19:56 G	33729648.11	33729648.33	33729648.56	0.0088	0.0043 *
Earth	87637-07-18 07:12 G	33730015.62	33730015.80	33730015.98	0.0088	0.0062
Moon	87637-07-18 10:05 G	33730015.76	33730015.92	33730016.12	0.0088	0.0061 *
Moon	87638-07-20 14:24 G	33730383.04	33730383.10	33730383.21	0.0088	0.0083
Earth	87638-07-20 18:00 G	33730383.18	33730383.25	33730383.37	0.0088	0.0082 *
Mercury	87656-09-15 08:39 G	33737014.83	33737014.86	33737014.91	0.0088	0.0084

Mercury	87656-12-12 09:51 G	33737102.86	33737102.91	33737102.99	0.0088	0.0077
Mercury	87657-03-10 11:17 G	33737190.90	33737190.97	33737191.06	0.0088	0.0070
Mercury	87657-06-06 12:44 G	33737278.94	33737279.03	33737279.13	0.0088	0.0062
Mercury	87657-09-02 14:24 G	33737366.99	33737367.10	33737367.20	0.0088	0.0055
Mercury	87657-11-29 15:36 G	33737455.04	33737455.15	33737455.27	0.0088	0.0048
Mercury	87658-02-25 17:03 G	33737543.09	33737543.21	33737543.33	0.0088	0.0041
Mercury	87658-05-24 18:15 G	33737631.14	33737631.26	33737631.40	0.0088	0.0034
Mercury	87658-08-20 19:41 G	33737719.20	33737719.32	33737719.46	0.0088	0.0027
Mercury	87658-11-16 21:08 G	33737807.25	33737807.38	33737807.52	0.0088	0.0020
Mercury	87659-02-12 22:34 G	33737895.31	33737895.44	33737895.58	0.0088	0.0012
Mercury	87659-05-12 00:00 G	33737983.37	33737983.50	33737983.64	0.0088	0.0005
Mercury	87659-08-08 01:27 G	33738071.43	33738071.56	33738071.70	0.0088	0.0003
Mercury	87659-11-04 02:53 G	33738159.49	33738159.62	33738159.76	0.0088	0.0010
Mercury	87660-01-31 04:20 G	33738247.55	33738247.68	33738247.82	0.0088	0.0017
Mercury	87660-04-28 05:46 G	33738335.61	33738335.74	33738335.87	0.0088	0.0025
Mercury	87660-07-25 07:12 G	33738423.67	33738423.80	33738423.93	0.0088	0.0032
Mercury	87660-10-21 08:24 G	33738511.74	33738511.85	33738511.98	0.0088	0.0040
Mercury	87661-01-17 09:51 G	33738599.80	33738599.91	33738600.04	0.0088	0.0047
Mercury	87661-04-15 11:32 G	33738687.87	33738687.98	33738688.09	0.0088	0.0054
Mercury	87661-07-12 12:44 G	33738775.94	33738776.03	33738776.14	0.0088	0.0062
Mercury	87661-10-08 14:10 G	33738864.02	33738864.09	33738864.18	0.0088	0.0069
Mercury	87662-01-04 15:36 G	33738952.09	33738952.15	33738952.23	0.0088	0.0076
Mercury	87662-04-02 17:03 G	33739040.18	33739040.21	33739040.26	0.0088	0.0084
Mars	87666-06-27 20:39 G	33740587.04	33740587.36	33740587.70	0.0088	0.0020
Venus	87699-08-18 10:20 G	33752691.88	33752691.93	33752692.03	0.0089	0.0083
Venus	87700-03-31 23:17 G	33752917.37	33752917.47	33752917.61	0.0089	0.0073
Venus	87700-11-12 12:15 G	33753142.87	33753143.01	33753143.18	0.0089	0.0063
Venus	87701-06-26 01:12 G	33753368.39	33753368.55	33753368.74	0.0089	0.0053
Venus	87702-02-06 14:10 G	33753593.91	33753594.09	33753594.29	0.0089	0.0043
Venus	87702-09-20 03:08 G	33753819.44	33753819.63	33753819.85	0.0089	0.0033

Venus	87703-05-03 16:05 G	33754044.97	33754045.17	33754045.40	0.0089	0.0023
Venus	87703-12-15 05:17 G	33754270.50	33754270.72	33754270.94	0.0089	0.0012
Venus	87704-07-27 18:00 G	33754496.04	33754496.25	33754496.47	0.0089	0.0003
Venus	87705-03-10 06:58 G	33754721.57	33754721.79	33754722.01	0.0089	0.0008
Venus	87705-10-21 19:41 G	33754947.12	33754947.32	33754947.55	0.0089	0.0019
Venus	87706-06-04 08:39 G	33755172.66	33755172.86	33755173.08	0.0089	0.0029
Venus	87707-01-15 21:22 G	33755398.21	33755398.39	33755398.60	0.0089	0.0039
Venus	87707-08-29 10:05 G	33755623.76	33755623.92	33755624.12	0.0089	0.0049
Venus	87708-04-10 22:48 G	33755849.31	33755849.45	33755849.64	0.0089	0.0059
Venus	87708-11-22 11:46 G	33756074.87	33756074.99	33756075.14	0.0089	0.0069
Venus	87709-07-06 00:29 G	33756300.44	33756300.52	33756300.64	0.0089	0.0079
Venus	87710-02-16 13:27 G	33756526.06	33756526.06	33756526.09	0.0089	0.0089
Earth	87713-01-04 03:22 G	33757578.62	33757578.64	33757578.67	0.0089	0.0088
Earth	87714-01-06 14:53 G	33757945.98	33757946.12	33757946.31	0.0089	0.0069
Moon	87714-01-06 18:00 G	33757946.10	33757946.25	33757946.44	0.0089	0.0068 *
Moon	87715-01-09 01:41 G	33758313.37	33758313.57	33758313.78	0.0089	0.0050
Earth	87715-01-09 03:22 G	33758313.45	33758313.64	33758313.88	0.0089	0.0049 *
Earth	87716-01-11 15:51 G	33758680.93	33758681.16	33758681.42	0.0089	0.0029
Moon	87716-01-11 16:34 G	33758680.95	33758681.19	33758681.46	0.0089	0.0027 *
Earth	87717-01-13 04:34 G	33759048.43	33759048.69	33759048.95	0.0089	0.0009
Moon	87717-01-13 04:34 G	33759048.45	33759048.69	33759048.94	0.0089	0.0010 *
Moon	87718-01-15 15:08 G	33759415.87	33759416.13	33759416.40	0.0089	0.0013
Earth	87718-01-15 16:48 G	33759415.95	33759416.20	33759416.46	0.0089	0.0011 *
Earth	87719-01-18 04:48 G	33759783.47	33759783.70	33759783.95	0.0089	0.0032
Moon	87719-01-18 07:27 G	33759783.58	33759783.81	33759784.05	0.0089	0.0030 *
Moon	87720-01-20 13:27 G	33760150.88	33760151.06	33760151.30	0.0089	0.0053
Earth	87720-01-20 17:03 G	33760151.01	33760151.21	33760151.43	0.0089	0.0052 *
Earth	87721-01-22 04:48 G	33760518.57	33760518.70	33760518.87	0.0089	0.0072
Moon	87721-01-22 08:24 G	33760518.72	33760518.85	33760519.03	0.0089	0.0071 *
Mercury	87739-12-11 05:17 G	33767415.68	33767415.72	33767415.80	0.0090	0.0085

Mercury	87740-03-08 08:53 G	33767503.78	33767503.87	33767503.98	0.0090	0.0074
Mercury	87740-06-04 12:00 G	33767591.89	33767592.00	33767592.15	0.0090	0.0064
Mercury	87740-08-31 15:36 G	33767680.01	33767680.15	33767680.31	0.0090	0.0053
Mercury	87740-11-27 19:12 G	33767768.14	33767768.30	33767768.46	0.0090	0.0042
Mercury	87741-02-23 22:20 G	33767856.27	33767856.43	33767856.61	0.0090	0.0032
Mercury	87741-05-23 01:41 G	33767944.40	33767944.57	33767944.76	0.0090	0.0021
Mercury	87741-08-19 05:03 G	33768032.53	33768032.71	33768032.90	0.0090	0.0010
Mercury	87741-11-15 08:24 G	33768120.67	33768120.85	33768121.04	0.0090	0.0001
Mercury	87742-02-11 11:46 G	33768208.81	33768208.99	33768209.17	0.0090	0.0011
Mercury	87742-05-10 14:53 G	33768296.95	33768297.12	33768297.31	0.0090	0.0021
Mercury	87742-08-06 18:15 G	33768385.09	33768385.26	33768385.43	0.0090	0.0032
Mercury	87742-11-02 21:36 G	33768473.24	33768473.40	33768473.56	0.0090	0.0042
Mercury	87743-01-30 00:29 G	33768561.39	33768561.52	33768561.68	0.0090	0.0053
Mercury	87743-04-28 03:51 G	33768649.54	33768649.66	33768649.80	0.0090	0.0063
Mercury	87743-07-25 06:58 G	33768737.70	33768737.79	33768737.91	0.0090	0.0073
Mercury	87743-10-21 09:51 G	33768825.87	33768825.91	33768826.00	0.0090	0.0084
Mars	87748-03-21 00:00 G	33770438.24	33770438.50	33770438.80	0.0090	0.0029
Venus	87780-07-09 18:58 G	33782237.25	33782237.29	33782237.38	0.0089	0.0085
Venus	87781-02-20 08:10 G	33782462.75	33782462.84	33782462.98	0.0089	0.0075
Venus	87781-10-03 21:22 G	33782688.26	33782688.39	33782688.56	0.0089	0.0065
Venus	87782-05-17 10:34 G	33782913.78	33782913.94	33782914.13	0.0089	0.0055
Venus	87782-12-28 23:32 G	33783139.31	33783139.48	33783139.69	0.0089	0.0045
Venus	87783-08-11 12:44 G	33783364.84	33783365.03	33783365.25	0.0089	0.0035
Venus	87784-03-24 02:24 G	33783590.39	33783590.60	33783590.81	0.0089	0.0024
Venus	87784-11-04 15:22 G	33783815.93	33783816.14	33783816.36	0.0089	0.0014
Venus	87785-06-18 04:34 G	33784041.47	33784041.69	33784041.91	0.0089	0.0004
Venus	87786-01-29 17:32 G	33784267.01	33784267.23	33784267.45	0.0089	0.0006
Venus	87786-09-12 06:29 G	33784492.56	33784492.77	33784493.00	0.0089	0.0017
Venus	87787-04-25 19:56 G	33784718.12	33784718.33	33784718.54	0.0088	0.0027
Venus	87787-12-07 08:53 G	33784943.67	33784943.87	33784944.08	0.0088	0.0037



Venus	87788-07-19 21:36 G	33785169.23	33785169.40	33785169.61	0.0088	0.0048
Venus	87789-03-02 10:48 G	33785394.80	33785394.95	33785395.14	0.0088	0.0058
Venus	87789-10-14 00:00 G	33785620.38	33785620.50	33785620.66	0.0088	0.0068
Venus	87790-05-27 13:12 G	33785845.96	33785846.05	33785846.18	0.0088	0.0078
Venus	87791-01-08 02:10 G	33786071.59	33786071.59	33786071.65	0.0088	0.0088
Moon	87794-07-03 06:44 G	33787343.67	33787343.78	33787343.94	0.0088	0.0074
Earth	87794-07-03 09:22 G	33787343.80	33787343.89	33787344.03	0.0088	0.0079 *
Earth	87795-07-05 20:24 G	33787711.18	33787711.35	33787711.56	0.0088	0.0059
Moon	87795-07-05 22:48 G	33787711.27	33787711.45	33787711.64	0.0088	0.0064 *
Moon	87796-07-07 07:27 G	33788078.59	33788078.81	33788079.05	0.0088	0.0035
Earth	87796-07-07 07:27 G	33788078.60	33788078.81	33788079.06	0.0088	0.0040 *
Moon	87797-07-09 18:00 G	33788446.01	33788446.25	33788446.52	0.0088	0.0025
Earth	87797-07-09 18:58 G	33788446.04	33788446.29	33788446.54	0.0088	0.0021 *
Earth	87798-07-12 05:46 G	33788813.49	33788813.74	33788814.00	0.0088	0.0002
Moon	87798-07-12 07:27 G	33788813.57	33788813.81	33788814.07	0.0088	0.0004 *
Moon	87799-07-14 13:41 G	33789180.82	33789181.07	33789181.34	0.0088	0.0013
Earth	87799-07-14 16:48 G	33789180.96	33789181.20	33789181.46	0.0088	0.0018 *
Earth	87800-07-17 03:36 G	33789548.43	33789548.65	33789548.90	0.0088	0.0037
Moon	87800-07-17 06:44 G	33789548.57	33789548.78	33789549.02	0.0088	0.0042 *
Moon	87801-07-19 11:17 G	33789915.77	33789915.97	33789916.18	0.0088	0.0051
Earth	87801-07-19 14:53 G	33789915.93	33789916.12	33789916.33	0.0088	0.0056 *
Earth	87802-07-22 01:56 G	33790283.46	33790283.58	33790283.73	0.0088	0.0075
Moon	87802-07-22 05:03 G	33790283.62	33790283.71	33790283.84	0.0088	0.0080 *
Mercury	87821-06-14 08:10 G	33797185.79	33797185.84	33797185.89	0.0088	0.0081
Mercury	87821-09-10 09:22 G	33797273.82	33797273.89	33797273.97	0.0088	0.0074
Mercury	87821-12-07 10:48 G	33797361.87	33797361.95	33797362.04	0.0088	0.0067
Mercury	87822-03-05 12:00 G	33797449.91	33797450.00	33797450.11	0.0088	0.0060
Mercury	87822-06-01 13:27 G	33797537.96	33797538.06	33797538.17	0.0088	0.0053
Mercury	87822-08-28 14:53 G	33797626.01	33797626.12	33797626.24	0.0088	0.0045
Mercury	87822-11-24 16:05 G	33797714.06	33797714.17	33797714.31	0.0088	0.0039

Mercury	87823-02-20 17:46 G	33797802.11	33797802.24	33797802.37	0.0088	0.0031
Mercury	87823-05-19 19:12 G	33797890.17	33797890.30	33797890.43	0.0088	0.0024
Mercury	87823-08-15 20:39 G	33797978.22	33797978.36	33797978.49	0.0088	0.0017
Mercury	87823-11-11 21:51 G	33798066.28	33798066.41	33798066.55	0.0088	0.0010
Mercury	87824-02-07 23:17 G	33798154.34	33798154.47	33798154.61	0.0088	0.0003
Mercury	87824-05-06 00:44 G	33798242.39	33798242.53	33798242.67	0.0088	0.0005
Mercury	87824-08-02 02:10 G	33798330.45	33798330.59	33798330.73	0.0088	0.0012
Mercury	87824-10-29 03:36 G	33798418.52	33798418.65	33798418.78	0.0088	0.0020
Mercury	87825-01-25 05:03 G	33798506.58	33798506.71	33798506.84	0.0088	0.0027
Mercury	87825-04-23 06:15 G	33798594.64	33798594.76	33798594.90	0.0088	0.0035
Mercury	87825-07-20 07:41 G	33798682.71	33798682.82	33798682.95	0.0088	0.0042
Mercury	87825-10-16 09:22 G	33798770.77	33798770.89	33798771.00	0.0088	0.0049
Mercury	87826-01-12 10:34 G	33798858.84	33798858.94	33798859.05	0.0088	0.0056
Mercury	87826-04-10 12:00 G	33798946.91	33798947.00	33798947.10	0.0088	0.0064
Mercury	87826-07-07 13:12 G	33799034.99	33799035.05	33799035.15	0.0088	0.0072
Mercury	87826-10-03 14:53 G	33799123.07	33799123.12	33799123.19	0.0088	0.0079
Mercury	87826-12-30 16:20 G	33799211.17	33799211.18	33799211.21	0.0088	0.0086
Mars	87830-02-10 10:20 G	33800348.75	33800348.93	33800349.12	0.0088	0.0073
Mars	87832-01-07 06:15 G	33801044.53	33801044.76	33801045.02	0.0088	0.0060
Venus	87863-11-21 19:12 G	33812686.28	33812686.30	33812686.36	0.0089	0.0087
Venus	87864-07-04 08:10 G	33812911.75	33812911.84	33812911.97	0.0089	0.0077
Venus	87865-02-14 21:08 G	33813137.25	33813137.38	33813137.54	0.0089	0.0067
Venus	87865-09-28 10:05 G	33813362.77	33813362.92	33813363.11	0.0089	0.0057
Venus	87866-05-11 23:03 G	33813588.29	33813588.46	33813588.66	0.0089	0.0047
Venus	87866-12-23 12:00 G	33813813.81	33813814.00	33813814.21	0.0089	0.0037
Venus	87867-08-06 00:58 G	33814039.34	33814039.54	33814039.76	0.0089	0.0026
Venus	87868-03-18 14:10 G	33814264.87	33814265.09	33814265.30	0.0089	0.0016
Venus	87868-10-30 03:08 G	33814490.41	33814490.63	33814490.85	0.0089	0.0006
Venus	87869-06-12 15:51 G	33814715.95	33814716.16	33814716.39	0.0089	0.0005
Venus	87870-01-24 04:48 G	33814941.49	33814941.70	33814941.92	0.0089	0.0015

Venus	87870-09-06 17:32 G	33815167.03	33815167.23	33815167.45	0.0089	0.0025
Venus	87871-04-20 06:29 G	33815392.58	33815392.77	33815392.98	0.0089	0.0035
Venus	87871-12-01 19:27 G	33815618.13	33815618.31	33815618.51	0.0089	0.0045
Venus	87872-07-14 08:10 G	33815843.68	33815843.84	33815844.02	0.0089	0.0055
Venus	87873-02-24 21:08 G	33816069.24	33816069.38	33816069.53	0.0089	0.0065
Venus	87873-10-08 10:05 G	33816294.81	33816294.92	33816295.04	0.0089	0.0075
Venus	87874-05-21 22:48 G	33816520.40	33816520.45	33816520.52	0.0089	0.0085
Moon	87878-01-06 19:27 G	33817846.21	33817846.31	33817846.43	0.0089	0.0080
Earth	87878-01-06 20:39 G	33817846.24	33817846.36	33817846.51	0.0089	0.0076 *
Earth	87879-01-09 08:39 G	33818213.68	33818213.86	33818214.08	0.0089	0.0056
Moon	87879-01-09 09:08 G	33818213.68	33818213.88	33818214.12	0.0089	0.0052 *
Earth	87880-01-11 20:53 G	33818581.16	33818581.37	33818581.63	0.0089	0.0037
Moon	87880-01-11 22:20 G	33818581.23	33818581.43	33818581.67	0.0089	0.0040 *
Moon	87881-01-13 07:27 G	33818948.56	33818948.81	33818949.08	0.0089	0.0012
Earth	87881-01-13 09:36 G	33818948.65	33818948.90	33818949.16	0.0089	0.0016 *
Earth	87882-01-15 21:51 G	33819316.16	33819316.41	33819316.67	0.0089	0.0004
Moon	87882-01-16 00:44 G	33819316.28	33819316.53	33819316.79	0.0089	0.0002 *
Moon	87883-01-18 06:29 G	33819683.53	33819683.77	33819684.02	0.0089	0.0029
Earth	87883-01-18 10:05 G	33819683.68	33819683.92	33819684.18	0.0089	0.0024 *
Earth	87884-01-20 22:05 G	33820051.22	33820051.42	33820051.66	0.0089	0.0045
Moon	87884-01-21 01:56 G	33820051.35	33820051.58	33820051.81	0.0089	0.0040 *
Moon	87885-01-22 06:44 G	33820418.64	33820418.78	33820418.96	0.0089	0.0070
Earth	87885-01-22 10:05 G	33820418.77	33820418.92	33820419.12	0.0089	0.0065 *
Earth	87886-01-24 21:51 G	33820786.36	33820786.41	33820786.53	0.0089	0.0085
Moon	87886-01-25 00:15 G	33820786.42	33820786.51	33820786.66	0.0089	0.0080 *
Mercury	87904-09-08 03:22 G	33827586.57	33827586.64	33827586.71	0.0090	0.0082
Mercury	87904-12-05 06:15 G	33827674.67	33827674.76	33827674.89	0.0090	0.0072
Mercury	87905-03-03 09:51 G	33827762.78	33827762.91	33827763.06	0.0090	0.0061
Mercury	87905-05-30 13:27 G	33827850.91	33827851.06	33827851.21	0.0090	0.0050
Mercury	87905-08-26 16:34 G	33827939.03	33827939.19	33827939.37	0.0090	0.0040

Mercury	87905-11-22 19:56 G	33828027.16	33828027.33	33828027.51	0.0090	0.0029
Mercury	87906-02-18 23:17 G	33828115.30	33828115.47	33828115.66	0.0090	0.0019
Mercury	87906-05-18 02:39 G	33828203.43	33828203.61	33828203.80	0.0090	0.0008
Mercury	87906-08-14 06:00 G	33828291.57	33828291.75	33828291.94	0.0090	0.0003
Mercury	87906-11-10 09:22 G	33828379.71	33828379.89	33828380.07	0.0090	0.0013
Mercury	87907-02-06 12:29 G	33828467.85	33828468.02	33828468.21	0.0090	0.0024
Mercury	87907-05-05 15:36 G	33828556.00	33828556.15	33828556.34	0.0090	0.0035
Mercury	87907-08-01 18:58 G	33828644.14	33828644.29	33828644.46	0.0090	0.0045
Mercury	87907-10-28 22:20 G	33828732.29	33828732.43	33828732.58	0.0090	0.0055
Mercury	87908-01-25 01:27 G	33828820.45	33828820.56	33828820.70	0.0090	0.0066
Mercury	87908-04-22 04:34 G	33828908.61	33828908.69	33828908.80	0.0090	0.0076
Mercury	87908-07-19 07:56 G	33828996.79	33828996.83	33828996.89	0.0090	0.0086
Mars	87911-11-06 02:24 G	33830201.50	33830201.60	33830201.78	0.0090	0.0079
Mars	87913-09-30 01:27 G	33830895.32	33830895.56	33830895.84	0.0090	0.0044
Venus	87944-10-13 04:05 G	33842231.67	33842231.67	33842231.70	0.0089	0.0089
Venus	87945-05-26 16:48 G	33842457.13	33842457.20	33842457.33	0.0089	0.0079
Venus	87946-01-07 06:44 G	33842682.64	33842682.78	33842682.92	0.0089	0.0068
Venus	87946-08-20 19:41 G	33842908.16	33842908.32	33842908.49	0.0089	0.0058
Venus	87947-04-03 08:53 G	33843133.69	33843133.87	33843134.06	0.0089	0.0048
Venus	87947-11-14 22:05 G	33843359.22	33843359.42	33843359.62	0.0089	0.0038
Venus	87948-06-27 11:03 G	33843584.76	33843584.96	33843585.18	0.0089	0.0028
Venus	87949-02-08 00:15 G	33843810.30	33843810.51	33843810.73	0.0089	0.0018
Venus	87949-09-21 13:27 G	33844035.84	33844036.06	33844036.28	0.0089	0.0007
Venus	87950-05-05 02:39 G	33844261.39	33844261.61	33844261.83	0.0089	0.0003
Venus	87950-12-16 15:36 G	33844486.94	33844487.15	33844487.37	0.0089	0.0013
Venus	87951-07-30 04:34 G	33844712.49	33844712.69	33844712.91	0.0089	0.0024
Venus	87952-03-11 17:46 G	33844938.04	33844938.24	33844938.45	0.0089	0.0034
Venus	87952-10-23 06:58 G	33845163.60	33845163.79	33845163.99	0.0088	0.0044
Venus	87953-06-05 19:56 G	33845389.17	33845389.33	33845389.52	0.0088	0.0054
Venus	87954-01-17 09:08 G	33845614.73	33845614.88	33845615.04	0.0088	0.0064

Venus	87954-08-30 22:20 G	33845840.31	33845840.43	33845840.55	0.0088	0.0074
Venus	87955-04-13 11:32 G	33846065.92	33846065.98	33846066.05	0.0088	0.0084
Earth	87958-07-04 16:05 G	33847244.12	33847244.17	33847244.27	0.0088	0.0085
Moon	87958-07-04 17:32 G	33847244.16	33847244.23	33847244.32	0.0088	0.0084 *
Moon	87959-07-07 03:22 G	33847611.48	33847611.64	33847611.81	0.0088	0.0066
Earth	87959-07-07 03:22 G	33847611.48	33847611.64	33847611.83	0.0088	0.0065 *
Moon	87960-07-08 12:58 G	33847978.82	33847979.04	33847979.28	0.0088	0.0045
Earth	87960-07-08 14:24 G	33847978.90	33847979.10	33847979.34	0.0088	0.0046 *
Earth	87961-07-11 01:27 G	33848346.33	33848346.56	33848346.82	0.0088	0.0027
Moon	87961-07-11 04:05 G	33848346.44	33848346.67	33848346.91	0.0088	0.0027 *
Moon	87962-07-13 09:36 G	33848713.65	33848713.90	33848714.17	0.0088	0.0008
Earth	87962-07-13 12:58 G	33848713.78	33848714.04	33848714.30	0.0088	0.0008 *
Earth	87963-07-15 23:32 G	33849081.24	33849081.48	33849081.75	0.0088	0.0012
Moon	87963-07-16 03:36 G	33849081.39	33849081.65	33849081.90	0.0088	0.0011 *
Moon	87964-07-17 07:27 G	33849448.58	33849448.81	33849449.06	0.0088	0.0031
Earth	87964-07-17 10:34 G	33849448.72	33849448.94	33849449.20	0.0088	0.0031 *
Earth	87965-07-19 21:36 G	33849816.21	33849816.40	33849816.63	0.0088	0.0050
Moon	87965-07-20 00:44 G	33849816.34	33849816.53	33849816.77	0.0088	0.0051 *
Moon	87966-07-22 06:44 G	33850183.64	33850183.78	33850183.95	0.0088	0.0069
Earth	87966-07-22 08:39 G	33850183.72	33850183.86	33850184.04	0.0088	0.0069 *
Earth	87967-07-24 19:56 G	33850551.33	33850551.33	33850551.35	0.0088	0.0088
Mercury	87985-12-14 05:46 G	33857268.73	33857268.74	33857268.77	0.0088	0.0086
Mercury	87986-03-12 07:12 G	33857356.75	33857356.80	33857356.86	0.0088	0.0079
Mercury	87986-06-08 08:39 G	33857444.79	33857444.86	33857444.94	0.0088	0.0072
Mercury	87986-09-04 09:51 G	33857532.83	33857532.91	33857533.01	0.0088	0.0065
Mercury	87986-12-01 11:17 G	33857620.88	33857620.97	33857621.08	0.0088	0.0058
Mercury	87987-02-27 12:44 G	33857708.93	33857709.03	33857709.15	0.0088	0.0050
Mercury	87987-05-26 13:56 G	33857796.98	33857797.08	33857797.21	0.0088	0.0044
Mercury	87987-08-22 15:36 G	33857885.03	33857885.15	33857885.28	0.0088	0.0036
Mercury	87987-11-18 17:03 G	33857973.08	33857973.21	33857973.34	0.0088	0.0029

Mercury	87988-02-14 18:15 G	33858061.13	33858061.26	33858061.40	0.0088	0.0022
Mercury	87988-05-12 19:41 G	33858149.19	33858149.32	33858149.46	0.0088	0.0015
Mercury	87988-08-08 21:08 G	33858237.25	33858237.38	33858237.52	0.0088	0.0007
Mercury	87988-11-04 22:34 G	33858325.30	33858325.44	33858325.58	0.0088	0.0000
Mercury	87989-02-01 00:00 G	33858413.36	33858413.50	33858413.64	0.0088	0.0007
Mercury	87989-04-30 01:27 G	33858501.42	33858501.56	33858501.69	0.0088	0.0015
Mercury	87989-07-27 02:53 G	33858589.48	33858589.62	33858589.75	0.0088	0.0022
Mercury	87989-10-23 04:05 G	33858677.55	33858677.67	33858677.81	0.0088	0.0029
Mercury	87990-01-19 05:32 G	33858765.61	33858765.73	33858765.86	0.0088	0.0037
Mercury	87990-04-17 06:58 G	33858853.67	33858853.79	33858853.91	0.0088	0.0044
Mercury	87990-07-14 08:10 G	33858941.74	33858941.84	33858941.96	0.0088	0.0052
Mercury	87990-10-10 09:36 G	33859029.81	33859029.90	33859030.01	0.0088	0.0059
Mercury	87991-01-06 11:17 G	33859117.88	33859117.97	33859118.06	0.0088	0.0066
Mercury	87991-04-04 12:29 G	33859205.96	33859206.02	33859206.11	0.0088	0.0074
Mercury	87991-07-01 13:56 G	33859294.04	33859294.08	33859294.14	0.0088	0.0081
Mars	87995-08-21 19:27 G	33860805.97	33860806.31	33860806.65	0.0088	0.0006

# 89TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 89th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	88028-10-06 16:48 G	33872906.13	33872906.20	33872906.31	0.0089	0.0081		
Venus	88029-05-20 05:46 G	33873131.62	33873131.74	33873131.88	0.0089	0.0071		

Venus	88029-12-31 18:44 G	33873357.13	33873357.28	33873357.45	0.0089	0.0061
Venus	88030-08-14 07:27 G	33873582.64	33873582.81	33873583.00	0.0089	0.0051
Venus	88031-03-27 20:24 G	33873808.17	33873808.35	33873808.56	0.0089	0.0041
Venus	88031-11-08 09:22 G	33874033.69	33874033.89	33874034.11	0.0089	0.0031
Venus	88032-06-20 22:05 G	33874259.22	33874259.42	33874259.65	0.0089	0.0021
Venus	88033-02-01 11:17 G	33874484.75	33874484.97	33874485.19	0.0089	0.0010
Venus	88033-09-15 00:15 G	33874710.29	33874710.51	33874710.73	0.0089	0.0001
Venus	88034-04-28 12:58 G	33874935.83	33874936.04	33874936.27	0.0089	0.0011
Venus	88034-12-10 01:56 G	33875161.37	33875161.58	33875161.80	0.0089	0.0021
Venus	88035-07-23 14:39 G	33875386.92	33875387.11	33875387.33	0.0089	0.0031
Venus	88036-03-05 03:36 G	33875612.47	33875612.65	33875612.85	0.0089	0.0041
Venus	88036-10-16 16:34 G	33875838.03	33875838.19	33875838.38	0.0089	0.0051
Venus	88037-05-30 05:32 G	33876063.58	33876063.73	33876063.90	0.0089	0.0061
Venus	88038-01-10 18:29 G	33876289.15	33876289.27	33876289.40	0.0089	0.0071
Venus	88038-08-24 07:12 G	33876514.72	33876514.80	33876514.90	0.0089	0.0081
Moon	88042-01-07 00:15 G	33877746.46	33877746.51	33877746.61	0.0089	0.0085
Earth	88042-01-07 01:12 G	33877746.47	33877746.55	33877746.66	0.0089	0.0082 *
Earth	88043-01-09 13:12 G	33878113.89	33878114.05	33878114.26	0.0089	0.0063
Moon	88043-01-09 14:53 G	33878113.95	33878114.12	33878114.32	0.0089	0.0060 *
Moon	88044-01-11 22:48 G	33878481.24	33878481.45	33878481.69	0.0089	0.0046
Earth	88044-01-12 01:41 G	33878481.36	33878481.57	33878481.82	0.0089	0.0043 *
Earth	88045-01-13 13:56 G	33878848.84	33878849.08	33878849.34	0.0089	0.0023
Moon	88045-01-13 17:17 G	33878848.98	33878849.22	33878849.47	0.0089	0.0020 *
Moon	88046-01-15 22:48 G	33879216.20	33879216.45	33879216.71	0.0089	0.0006
Earth	88046-01-16 02:24 G	33879216.35	33879216.60	33879216.86	0.0089	0.0004 *
Earth	88047-01-18 14:39 G	33879583.86	33879584.11	33879584.37	0.0089	0.0017
Moon	88047-01-18 18:15 G	33879584.01	33879584.26	33879584.52	0.0089	0.0020 *
Moon	88048-01-21 00:29 G	33879951.29	33879951.52	33879951.75	0.0089	0.0035
Earth	88048-01-21 02:39 G	33879951.39	33879951.61	33879951.86	0.0089	0.0037 *
Earth	88049-01-22 15:08 G	33880318.94	33880319.13	33880319.33	0.0089	0.0057

Moon	88049-01-22 17:03 G	33880319.03	33880319.21	33880319.43	0.0089	0.0059 *
Moon	88050-01-25 02:39 G	33880686.49	33880686.61	33880686.76	0.0089	0.0075
Earth	88050-01-25 03:22 G	33880686.52	33880686.64	33880686.78	0.0089	0.0077 *
Mercury	88069-06-05 00:00 G	33887757.44	33887757.50	33887757.60	0.0090	0.0081
Mercury	88069-09-01 03:36 G	33887845.55	33887845.65	33887845.78	0.0090	0.0070
Mercury	88069-11-28 07:12 G	33887933.66	33887933.80	33887933.94	0.0090	0.0059
Mercury	88070-02-24 10:20 G	33888021.79	33888021.93	33888022.10	0.0090	0.0049
Mercury	88070-05-23 13:56 G	33888109.91	33888110.08	33888110.25	0.0090	0.0038
Mercury	88070-08-19 17:03 G	33888198.05	33888198.21	33888198.40	0.0090	0.0028
Mercury	88070-11-15 20:39 G	33888286.18	33888286.36	33888286.54	0.0090	0.0017
Mercury	88071-02-12 00:00 G	33888374.32	33888374.50	33888374.69	0.0090	0.0006
Mercury	88071-05-11 03:22 G	33888462.45	33888462.64	33888462.82	0.0090	0.0005
Mercury	88071-08-07 06:44 G	33888550.59	33888550.78	33888550.96	0.0090	0.0015
Mercury	88071-11-03 09:51 G	33888638.74	33888638.91	33888639.09	0.0090	0.0026
Mercury	88072-01-30 13:12 G	33888726.88	33888727.05	33888727.22	0.0090	0.0036
Mercury	88072-04-27 16:05 G	33888815.03	33888815.17	33888815.35	0.0090	0.0047
Mercury	88072-07-24 19:27 G	33888903.18	33888903.31	33888903.47	0.0090	0.0057
Mercury	88072-10-20 23:03 G	33888991.34	33888991.46	33888991.58	0.0090	0.0067
Mercury	88073-01-17 01:56 G	33889079.50	33889079.58	33889079.69	0.0090	0.0078
Mercury	88073-04-15 05:03 G	33889167.69	33889167.71	33889167.76	0.0090	0.0088
Mars	88077-05-15 02:53 G	33890658.33	33890658.62	33890658.91	0.0090	0.0009
Venus	88109-08-29 00:58 G	33902451.49	33902451.54	33902451.65	0.0089	0.0083
Venus	88110-04-11 14:10 G	33902676.99	33902677.09	33902677.25	0.0089	0.0073
Venus	88110-11-23 04:05 G	33902902.51	33902902.67	33902902.82	0.0089	0.0062
Venus	88111-07-06 17:03 G	33903128.03	33903128.21	33903128.39	0.0089	0.0052
Venus	88112-02-17 06:00 G	33903353.57	33903353.75	33903353.96	0.0089	0.0042
Venus	88112-09-29 19:12 G	33903579.10	33903579.30	33903579.52	0.0089	0.0032
Venus	88113-05-13 08:24 G	33903804.65	33903804.85	33903805.08	0.0089	0.0022
Venus	88113-12-24 21:36 G	33904030.19	33904030.40	33904030.63	0.0089	0.0012
Venus	88114-08-07 10:48 G	33904255.73	33904255.95	33904256.18	0.0089	0.0002



Venus	88115-03-21 00:00 G	33904481.29	33904481.50	33904481.73	0.0089	0.0010
Venus	88115-11-01 13:12 G	33904706.84	33904707.05	33904707.27	0.0089	0.0020
Venus	88116-06-14 02:24 G	33904932.39	33904932.60	33904932.81	0.0089	0.0030
Venus	88117-01-25 15:22 G	33905157.95	33905158.14	33905158.34	0.0088	0.0040
Venus	88117-09-08 04:05 G	33905383.51	33905383.67	33905383.87	0.0088	0.0051
Venus	88118-04-21 17:17 G	33905609.08	33905609.22	33905609.41	0.0088	0.0061
Venus	88118-12-03 06:29 G	33905834.66	33905834.77	33905834.92	0.0088	0.0071
Venus	88119-07-16 19:27 G	33906060.25	33906060.31	33906060.43	0.0088	0.0081
Moon	88123-07-07 07:56 G	33907511.69	33907511.83	33907512.03	0.0088	0.0068
Earth	88123-07-07 09:51 G	33907511.78	33907511.91	33907512.08	0.0088	0.0072 *
Earth	88124-07-08 20:53 G	33907879.18	33907879.37	33907879.60	0.0088	0.0053
Moon	88124-07-08 23:46 G	33907879.32	33907879.49	33907879.70	0.0088	0.0058 *
Jupiter	88124-11-29 09:51 G	33908022.43	33908022.91	33908023.46	0.0088	0.0021
Moon	88125-07-11 04:48 G	33908246.47	33908246.70	33908246.96	0.0088	0.0029
Earth	88125-07-11 08:24 G	33908246.62	33908246.85	33908247.10	0.0088	0.0033 *
Earth	88126-07-13 19:27 G	33908614.06	33908614.31	33908614.57	0.0088	0.0014
Moon	88126-07-13 22:48 G	33908614.21	33908614.45	33908614.71	0.0088	0.0019 *
Moon	88127-07-16 03:22 G	33908981.39	33908981.64	33908981.89	0.0088	0.0010
Earth	88127-07-16 06:44 G	33908981.52	33908981.78	33908982.04	0.0088	0.0005 *
Earth	88128-07-17 17:46 G	33909348.99	33909349.24	33909349.49	0.0088	0.0025
Moon	88128-07-17 19:56 G	33909349.08	33909349.33	33909349.60	0.0088	0.0020 *
Moon	88129-07-20 02:39 G	33909716.41	33909716.61	33909716.83	0.0088	0.0048
Earth	88129-07-20 04:48 G	33909716.48	33909716.70	33909716.92	0.0088	0.0044 *
Moon	88130-07-22 15:36 G	33910083.97	33910084.15	33910084.37	0.0088	0.0058
Earth	88130-07-22 15:08 G	33910083.98	33910084.13	33910084.34	0.0088	0.0063 *
Earth	88131-07-25 02:39 G	33910451.52	33910451.61	33910451.71	0.0088	0.0081
Moon	88131-07-25 03:22 G	33910451.61	33910451.64	33910451.71	0.0088	0.0086 *
Mercury	88150-09-11 05:03 G	33917439.68	33917439.71	33917439.75	0.0088	0.0084
Mercury	88150-12-08 06:29 G	33917527.71	33917527.77	33917527.83	0.0088	0.0077
Mercury	88151-03-06 07:41 G	33917615.75	33917615.82	33917615.91	0.0088	0.0070

Mercury	88151-06-02 09:08 G	33917703.79	33917703.88	33917703.98	0.0088	0.0063
Mercury	88151-08-29 10:34 G	33917791.84	33917791.94	33917792.05	0.0088	0.0055
Mercury	88151-11-25 11:46 G	33917879.89	33917879.99	33917880.11	0.0088	0.0049
Mercury	88152-02-21 13:12 G	33917967.94	33917968.05	33917968.18	0.0088	0.0041
Mercury	88152-05-19 14:53 G	33918055.99	33918056.12	33918056.24	0.0088	0.0034
Mercury	88152-08-15 16:05 G	33918144.04	33918144.17	33918144.30	0.0088	0.0027
Mercury	88152-11-11 17:32 G	33918232.10	33918232.23	33918232.36	0.0088	0.0020
Mercury	88153-02-07 18:58 G	33918320.15	33918320.29	33918320.42	0.0088	0.0012
Mercury	88153-05-06 20:24 G	33918408.21	33918408.35	33918408.48	0.0088	0.0005
Mercury	88153-08-02 21:36 G	33918496.27	33918496.40	33918496.54	0.0088	0.0004
Mercury	88153-10-29 23:03 G	33918584.33	33918584.46	33918584.60	0.0088	0.0010
Mercury	88154-01-26 00:29 G	33918672.39	33918672.52	33918672.66	0.0088	0.0017
Mercury	88154-04-24 01:56 G	33918760.45	33918760.58	33918760.71	0.0088	0.0024
Mercury	88154-07-21 03:08 G	33918848.51	33918848.63	33918848.77	0.0088	0.0032
Mercury	88154-10-17 04:34 G	33918936.58	33918936.69	33918936.82	0.0088	0.0039
Mercury	88155-01-13 06:15 G	33919024.64	33919024.76	33919024.87	0.0088	0.0046
Mercury	88155-04-11 07:27 G	33919112.71	33919112.81	33919112.93	0.0088	0.0053
Mercury	88155-07-08 08:53 G	33919200.78	33919200.87	33919200.98	0.0088	0.0061
Mercury	88155-10-04 10:34 G	33919288.85	33919288.94	33919289.02	0.0088	0.0068
Mercury	88155-12-31 11:46 G	33919376.93	33919376.99	33919377.07	0.0088	0.0075
Mercury	88156-03-28 13:12 G	33919465.02	33919465.05	33919465.10	0.0088	0.0083
Mars	88159-04-05 07:27 G	33920567.53	33920567.81	33920568.09	0.0088	0.0049
Mars	88161-03-01 04:20 G	33921263.61	33921263.68	33921263.79	0.0088	0.0084
Venus	88193-01-09 01:27 G	33932900.51	33932900.56	33932900.63	0.0088	0.0085
Venus	88193-08-22 14:24 G	33933125.99	33933126.10	33933126.22	0.0089	0.0075
Venus	88194-04-05 03:08 G	33933351.50	33933351.63	33933351.79	0.0089	0.0065
Venus	88194-11-16 16:05 G	33933577.01	33933577.17	33933577.35	0.0089	0.0055
Venus	88195-06-30 04:48 G	33933802.53	33933802.70	33933802.91	0.0089	0.0045
Venus	88196-02-10 17:46 G	33934028.05	33934028.24	33934028.45	0.0089	0.0035
Venus	88196-09-23 06:44 G	33934253.58	33934253.78	33934254.00	0.0089	0.0025

Venus	88197-05-06 19:56 G	33934479.11	33934479.33	33934479.55	0.0089	0.0014
Venus	88197-12-18 08:39 G	33934704.64	33934704.86	33934705.08	0.0089	0.0004
Venus	88198-07-31 21:22 G	33934930.18	33934930.39	33934930.61	0.0089	0.0007
Venus	88199-03-14 10:05 G	33935155.72	33935155.92	33935156.15	0.0089	0.0017
Venus	88199-10-25 23:03 G	33935381.27	33935381.46	33935381.68	0.0089	0.0027
Venus	88200-06-08 12:00 G	33935606.81	33935607.00	33935607.21	0.0089	0.0037
Venus	88201-01-20 00:58 G	33935832.36	33935832.54	33935832.73	0.0089	0.0047
Venus	88201-09-02 13:41 G	33936057.92	33936058.07	33936058.25	0.0089	0.0057
Venus	88202-04-16 02:39 G	33936283.48	33936283.61	33936283.76	0.0089	0.0067
Venus	88202-11-27 15:36 G	33936509.05	33936509.15	33936509.26	0.0089	0.0077
Venus	88203-07-11 04:34 G	33936734.66	33936734.69	33936734.73	0.0089	0.0087
Moon	88206-01-08 07:41 G	33937646.79	33937646.82	33937646.90	0.0089	0.0087
Moon	88207-01-10 14:10 G	33938013.97	33938014.09	33938014.28	0.0089	0.0074
Earth	88207-01-10 18:00 G	33938014.09	33938014.25	33938014.41	0.0089	0.0070 *
Earth	88208-01-13 05:32 G	33938381.54	33938381.73	33938381.96	0.0089	0.0051
Moon	88208-01-13 09:51 G	33938381.69	33938381.91	33938382.12	0.0089	0.0047 *
Moon	88209-01-14 14:39 G	33938748.89	33938749.11	33938749.36	0.0089	0.0034
Earth	88209-01-14 18:00 G	33938749.02	33938749.25	33938749.51	0.0089	0.0031 *
Earth	88210-01-17 06:29 G	33939116.51	33939116.77	33939117.03	0.0089	0.0011
Moon	88210-01-17 09:51 G	33939116.65	33939116.91	33939117.17	0.0089	0.0007 *
Moon	88211-01-19 16:20 G	33939483.93	33939484.18	33939484.44	0.0089	0.0006
Earth	88211-01-19 18:44 G	33939484.02	33939484.28	33939484.54	0.0089	0.0009 *
Earth	88212-01-22 06:29 G	33939851.54	33939851.77	33939852.03	0.0089	0.0030
Moon	88212-01-22 07:41 G	33939851.58	33939851.82	33939852.08	0.0089	0.0032 *
Moon	88213-01-23 18:44 G	33940219.07	33940219.28	33940219.50	0.0089	0.0046
Earth	88213-01-23 18:44 G	33940219.08	33940219.28	33940219.51	0.0089	0.0049 *
Moon	88214-01-26 05:32 G	33940586.60	33940586.73	33940586.90	0.0089	0.0073
Earth	88214-01-26 06:44 G	33940586.65	33940586.78	33940586.97	0.0089	0.0069 *
Earth	88215-01-28 19:12 G	33940954.29	33940954.30	33940954.35	0.0089	0.0089
Moon	88215-01-28 21:36 G	33940954.35	33940954.40	33940954.49	0.0089	0.0086 *

Mercury	88233-12-05 18:15 G	33947840.26	33947840.26	33947840.26	0.0090	0.0090
Mercury	88234-03-03 21:36 G	33947928.32	33947928.40	33947928.49	0.0090	0.0079
Mercury	88234-05-31 00:44 G	33948016.42	33948016.53	33948016.66	0.0090	0.0069
Mercury	88234-08-27 04:05 G	33948104.54	33948104.67	33948104.83	0.0090	0.0058
Mercury	88234-11-23 07:41 G	33948192.67	33948192.82	33948192.99	0.0090	0.0047
Mercury	88235-02-19 10:48 G	33948280.80	33948280.95	33948281.14	0.0090	0.0037
Mercury	88235-05-18 14:24 G	33948368.93	33948369.10	33948369.29	0.0090	0.0026
Mercury	88235-08-14 18:00 G	33948457.06	33948457.25	33948457.43	0.0090	0.0015
Mercury	88235-11-10 21:08 G	33948545.20	33948545.38	33948545.57	0.0090	0.0005
Mercury	88236-02-07 00:29 G	33948633.34	33948633.52	33948633.71	0.0090	0.0006
Mercury	88236-05-05 03:51 G	33948721.48	33948721.66	33948721.84	0.0090	0.0017
Mercury	88236-08-01 07:12 G	33948809.62	33948809.80	33948809.98	0.0090	0.0027
Mercury	88236-10-28 10:20 G	33948897.77	33948897.93	33948898.10	0.0090	0.0038
Mercury	88237-01-24 13:41 G	33948985.92	33948986.07	33948986.23	0.0090	0.0048
Mercury	88237-04-22 16:34 G	33949074.07	33949074.19	33949074.35	0.0090	0.0059
Mercury	88237-07-19 19:56 G	33949162.23	33949162.33	33949162.46	0.0090	0.0069
Mercury	88237-10-15 23:17 G	33949250.40	33949250.47	33949250.57	0.0090	0.0079
Mercury	88238-01-12 02:24 G	33949338.60	33949338.60	33949338.63	0.0090	0.0090
Mars	88240-12-30 06:15 G	33950421.56	33950421.76	33950421.99	0.0090	0.0061
Mars	88242-11-24 01:56 G	33951115.40	33951115.58	33951115.83	0.0090	0.0061
Venus	88273-12-01 09:08 G	33962445.86	33962445.88	33962445.95	0.0089	0.0087
Venus	88274-07-14 22:20 G	33962671.34	33962671.43	33962671.56	0.0089	0.0077
Venus	88275-02-25 11:32 G	33962896.85	33962896.98	33962897.14	0.0089	0.0067
Venus	88275-10-09 00:58 G	33963122.38	33963122.54	33963122.71	0.0089	0.0056
Venus	88276-05-21 13:56 G	33963347.90	33963348.08	33963348.28	0.0089	0.0046
Venus	88277-01-02 03:08 G	33963573.44	33963573.63	33963573.84	0.0089	0.0036
Venus	88277-08-15 16:05 G	33963798.97	33963799.17	33963799.40	0.0089	0.0026
Venus	88278-03-29 05:32 G	33964024.52	33964024.73	33964024.96	0.0089	0.0016
Venus	88278-11-09 18:44 G	33964250.07	33964250.28	33964250.51	0.0089	0.0006
Venus	88279-06-23 07:56 G	33964475.61	33964475.83	33964476.05	0.0089	0.0005

Venus	88280-02-03 20:53 G	33964701.16	33964701.37	33964701.60	0.0089	0.0016
Venus	88280-09-16 10:05 G	33964926.72	33964926.92	33964927.14	0.0089	0.0026
Venus	88281-04-29 23:32 G	33965152.28	33965152.48	33965152.68	0.0089	0.0036
Venus	88281-12-11 12:15 G	33965377.84	33965378.01	33965378.22	0.0089	0.0047
Venus	88282-07-25 01:12 G	33965603.40	33965603.55	33965603.74	0.0088	0.0057
Venus	88283-03-07 14:24 G	33965828.98	33965829.10	33965829.27	0.0088	0.0067
Venus	88283-10-19 03:36 G	33966054.56	33966054.65	33966054.78	0.0088	0.0077
Venus	88284-05-31 16:48 G	33966280.18	33966280.20	33966280.26	0.0088	0.0087
Earth	88287-07-07 15:22 G	33967412.05	33967412.14	33967412.29	0.0088	0.0078
Moon	88287-07-07 18:29 G	33967412.17	33967412.27	33967412.42	0.0088	0.0077 *
Moon	88288-07-08 22:48 G	33967779.29	33967779.45	33967779.66	0.0088	0.0061
Earth	88288-07-09 02:39 G	33967779.44	33967779.61	33967779.82	0.0088	0.0059 *
Earth	88289-07-11 13:27 G	33968146.85	33968147.06	33968147.31	0.0088	0.0041
Moon	88289-07-11 17:17 G	33968146.99	33968147.22	33968147.46	0.0088	0.0038 *
Moon	88290-07-13 22:05 G	33968514.19	33968514.42	33968514.67	0.0088	0.0022
Earth	88290-07-14 01:12 G	33968514.30	33968514.55	33968514.80	0.0088	0.0021 *
Earth	88291-07-16 12:29 G	33968881.76	33968882.02	33968882.28	0.0088	0.0002
Moon	88291-07-16 14:53 G	33968881.85	33968882.12	33968882.38	0.0088	0.0001 *
Moon	88292-07-17 22:48 G	33969249.21	33969249.45	33969249.70	0.0088	0.0016
Earth	88292-07-17 23:17 G	33969249.23	33969249.47	33969249.74	0.0088	0.0018 *
Moon	88293-07-20 10:20 G	33969616.70	33969616.93	33969617.19	0.0088	0.0038
Earth	88293-07-20 10:20 G	33969616.71	33969616.93	33969617.18	0.0088	0.0037 *
Earth	88294-07-22 21:22 G	33969984.21	33969984.39	33969984.61	0.0088	0.0056
Moon	88294-07-22 22:48 G	33969984.27	33969984.45	33969984.66	0.0088	0.0055 *
Moon	88295-07-25 05:32 G	33970351.63	33970351.73	33970351.88	0.0088	0.0077
Earth	88295-07-25 08:24 G	33970351.74	33970351.85	33970352.01	0.0088	0.0075 *
Mercury	88315-06-10 03:51 G	33977610.63	33977610.66	33977610.72	0.0088	0.0083
Mercury	88315-09-06 05:17 G	33977698.67	33977698.72	33977698.80	0.0088	0.0076
Mercury	88315-12-03 06:58 G	33977786.71	33977786.79	33977786.88	0.0088	0.0068
Mercury	88316-02-29 08:24 G	33977874.75	33977874.85	33977874.95	0.0088	0.0061

Mercury	88316-05-27 09:36 G	33977962.80	33977962.90	33977963.01	0.0088	0.0054
Mercury	88316-08-23 11:03 G	33978050.85	33978050.96	33978051.08	0.0088	0.0047
Mercury	88316-11-19 12:15 G	33978138.90	33978139.01	33978139.14	0.0088	0.0040
Mercury	88317-02-15 13:41 G	33978226.95	33978227.07	33978227.20	0.0088	0.0033
Mercury	88317-05-14 15:08 G	33978315.00	33978315.13	33978315.27	0.0088	0.0025
Mercury	88317-08-10 16:34 G	33978403.06	33978403.19	33978403.33	0.0088	0.0018
Mercury	88317-11-06 18:00 G	33978491.11	33978491.25	33978491.39	0.0088	0.0011
Mercury	88318-02-02 19:27 G	33978579.17	33978579.31	33978579.45	0.0088	0.0004
Mercury	88318-05-01 20:53 G	33978667.23	33978667.37	33978667.50	0.0088	0.0005
Mercury	88318-07-28 22:05 G	33978755.29	33978755.42	33978755.56	0.0088	0.0011
Mercury	88318-10-24 23:32 G	33978843.35	33978843.48	33978843.62	0.0088	0.0018
Mercury	88319-01-21 00:58 G	33978931.41	33978931.54	33978931.67	0.0088	0.0026
Mercury	88319-04-19 02:24 G	33979019.47	33979019.60	33979019.73	0.0088	0.0033
Mercury	88319-07-16 03:36 G	33979107.54	33979107.65	33979107.78	0.0088	0.0041
Mercury	88319-10-12 05:03 G	33979195.60	33979195.71	33979195.83	0.0088	0.0048
Mercury	88320-01-08 06:44 G	33979283.67	33979283.78	33979283.88	0.0088	0.0055
Mercury	88320-04-05 07:56 G	33979371.74	33979371.83	33979371.93	0.0088	0.0062
Mercury	88320-07-02 09:22 G	33979459.82	33979459.89	33979459.98	0.0088	0.0070
Mercury	88320-09-28 11:03 G	33979547.89	33979547.96	33979548.02	0.0088	0.0077
Mercury	88320-12-25 12:15 G	33979635.98	33979636.01	33979636.05	0.0088	0.0085
Mars	88324-10-14 14:53 G	33981024.81	33981025.12	33981025.45	0.0088	0.0029
Venus	88357-11-25 22:05 G	33993120.35	33993120.42	33993120.54	0.0088	0.0080
Venus	88358-07-09 11:03 G	33993345.85	33993345.96	33993346.12	0.0088	0.0070
Venus	88359-02-20 00:29 G	33993571.36	33993571.52	33993571.68	0.0089	0.0059
Venus	88359-10-03 13:27 G	33993796.88	33993797.06	33993797.25	0.0089	0.0049
Venus	88360-05-16 02:10 G	33994022.40	33994022.59	33994022.80	0.0089	0.0039
Venus	88360-12-27 14:53 G	33994247.93	33994248.12	33994248.34	0.0089	0.0029
Venus	88361-08-10 03:51 G	33994473.45	33994473.66	33994473.88	0.0089	0.0019
Venus	88362-03-23 16:48 G	33994698.98	33994699.20	33994699.42	0.0089	0.0008
Venus	88362-11-04 05:46 G	33994924.52	33994924.74	33994924.96	0.0089	0.0002

Venus	88363-06-17 18:29 G	33995150.06	33995150.27	33995150.49	0.0089	0.0012
Venus	88364-01-29 07:12 G	33995375.60	33995375.80	33995376.02	0.0089	0.0023
Venus	88364-09-10 20:10 G	33995601.14	33995601.34	33995601.55	0.0089	0.0033
Venus	88365-04-24 08:53 G	33995826.69	33995826.87	33995827.08	0.0089	0.0043
Venus	88365-12-05 21:51 G	33996052.25	33996052.41	33996052.60	0.0089	0.0053
Venus	88366-07-19 10:48 G	33996277.80	33996277.95	33996278.11	0.0089	0.0063
Venus	88367-03-01 23:46 G	33996503.37	33996503.49	33996503.61	0.0089	0.0073
Venus	88367-10-13 12:44 G	33996728.96	33996729.03	33996729.11	0.0089	0.0083
Earth	88371-01-10 22:05 G	33997914.29	33997914.42	33997914.55	0.0089	0.0076
Moon	88371-01-11 01:27 G	33997914.46	33997914.56	33997914.67	0.0089	0.0080 *
Moon	88372-01-13 06:29 G	33998281.59	33998281.77	33998281.99	0.0089	0.0053
Earth	88372-01-13 10:05 G	33998281.74	33998281.92	33998282.13	0.0089	0.0057 *
Earth	88373-01-14 22:20 G	33998649.21	33998649.43	33998649.68	0.0089	0.0037
Moon	88373-01-15 00:58 G	33998649.31	33998649.54	33998649.78	0.0089	0.0041 *
Moon	88374-01-17 09:08 G	33999016.63	33999016.88	33999017.13	0.0089	0.0014
Earth	88374-01-17 10:34 G	33999016.70	33999016.94	33999017.21	0.0089	0.0018 *
Earth	88375-01-19 23:03 G	33999384.20	33999384.46	33999384.72	0.0089	0.0002
Moon	88375-01-19 23:46 G	33999384.22	33999384.49	33999384.75	0.0089	0.0002 *
Earth	88376-01-22 10:48 G	33999751.71	33999751.95	33999752.21	0.0089	0.0022
Moon	88376-01-22 11:46 G	33999751.77	33999751.99	33999752.24	0.0089	0.0026 *
Moon	88377-01-23 21:08 G	34000119.16	34000119.38	34000119.64	0.0089	0.0038
Earth	88377-01-23 23:17 G	34000119.24	34000119.47	34000119.70	0.0089	0.0042 *
Earth	88378-01-26 11:03 G	34000486.79	34000486.96	34000487.16	0.0089	0.0061
Moon	88378-01-26 13:41 G	34000486.92	34000487.07	34000487.26	0.0089	0.0065 *
Moon	88379-01-28 19:12 G	34000854.20	34000854.30	34000854.46	0.0089	0.0078
Earth	88379-01-28 22:48 G	34000854.37	34000854.45	34000854.59	0.0089	0.0082 *
Mercury	88398-09-02 14:53 G	34008011.11	34008011.12	34008011.16	0.0090	0.0089
Mercury	88398-11-29 18:29 G	34008099.19	34008099.27	34008099.37	0.0090	0.0078
Mercury	88399-02-25 22:05 G	34008187.30	34008187.42	34008187.54	0.0090	0.0067
Mercury	88399-05-25 01:12 G	34008275.42	34008275.55	34008275.71	0.0090	0.0057

Mercury	88399-08-21 04:34 G	34008363.54	34008363.69	34008363.86	0.0090	0.0046
Mercury	88399-11-17 08:10 G	34008451.67	34008451.84	34008452.02	0.0090	0.0035
Mercury	88400-02-13 11:32 G	34008539.80	34008539.98	34008540.16	0.0090	0.0025
Mercury	88400-05-11 14:53 G	34008627.94	34008628.12	34008628.31	0.0090	0.0014
Mercury	88400-08-07 18:15 G	34008716.08	34008716.26	34008716.45	0.0090	0.0004
Mercury	88400-11-03 21:36 G	34008804.22	34008804.40	34008804.59	0.0090	0.0007
Mercury	88401-01-31 00:58 G	34008892.36	34008892.54	34008892.72	0.0090	0.0018
Mercury	88401-04-29 04:05 G	34008980.50	34008980.67	34008980.85	0.0090	0.0029
Mercury	88401-07-26 07:27 G	34009068.65	34009068.81	34009068.98	0.0090	0.0039
Mercury	88401-10-22 10:48 G	34009156.80	34009156.95	34009157.11	0.0090	0.0049
Mercury	88402-01-18 13:41 G	34009244.95	34009245.07	34009245.23	0.0090	0.0060
Mercury	88402-04-16 17:17 G	34009333.11	34009333.22	34009333.34	0.0090	0.0070
Mercury	88402-07-13 20:39 G	34009421.28	34009421.36	34009421.44	0.0090	0.0080
Mars	88406-07-10 04:34 G	34010878.41	34010878.69	34010878.99	0.0090	0.0008
Venus	88438-10-17 06:15 G	34022665.69	34022665.76	34022665.87	0.0089	0.0081
Venus	88439-05-30 19:27 G	34022891.19	34022891.31	34022891.46	0.0089	0.0071
Venus	88440-01-11 08:24 G	34023116.71	34023116.85	34023117.03	0.0089	0.0061
Venus	88440-08-23 21:22 G	34023342.23	34023342.39	34023342.59	0.0089	0.0051
Venus	88441-04-06 11:03 G	34023567.77	34023567.96	34023568.16	0.0089	0.0040
Venus	88441-11-18 00:00 G	34023793.30	34023793.50	34023793.72	0.0089	0.0030
Venus	88442-07-01 13:12 G	34024018.84	34024019.05	34024019.27	0.0089	0.0020
Venus	88443-02-12 02:24 G	34024244.38	34024244.60	34024244.82	0.0089	0.0009
Venus	88443-09-25 15:36 G	34024469.93	34024470.15	34024470.37	0.0089	0.0002
Venus	88444-05-08 04:48 G	34024695.49	34024695.70	34024695.93	0.0089	0.0012
Venus	88444-12-19 18:00 G	34024921.04	34024921.25	34024921.47	0.0089	0.0022
Venus	88445-08-02 07:12 G	34025146.60	34025146.80	34025147.01	0.0089	0.0032
Venus	88446-03-15 20:10 G	34025372.16	34025372.34	34025372.55	0.0089	0.0043
Venus	88446-10-27 09:22 G	34025597.73	34025597.89	34025598.08	0.0089	0.0053
Venus	88447-06-09 22:34 G	34025823.30	34025823.44	34025823.61	0.0089	0.0063
Venus	88448-01-21 11:46 G	34026048.88	34026048.99	34026049.12	0.0088	0.0073



Venus	88448-09-03 00:58 G	34026274.47	34026274.54	34026274.62	0.0088	0.0083
Moon	88451-07-07 18:00 G	34027312.25	34027312.25	34027312.30	0.0088	0.0088
Earth	88451-07-07 21:22 G	34027312.35	34027312.39	34027312.50	0.0088	0.0085
Earth	88452-07-09 08:24 G	34027679.70	34027679.85	34027680.04	0.0088	0.0066
Moon	88452-07-09 11:46 G	34027679.83	34027679.99	34027680.20	0.0088	0.0061 *
Moon	88453-07-11 17:03 G	34028047.02	34028047.21	34028047.43	0.0088	0.0051
Earth	88453-07-11 19:27 G	34028047.11	34028047.31	34028047.55	0.0088	0.0047 *
Earth	88454-07-14 06:29 G	34028414.54	34028414.77	34028415.03	0.0088	0.0028
Moon	88454-07-14 08:10 G	34028414.59	34028414.84	34028415.10	0.0088	0.0024 *
Moon	88455-07-16 17:17 G	34028781.98	34028782.22	34028782.47	0.0088	0.0012
Earth	88455-07-16 17:46 G	34028781.99	34028782.24	34028782.50	0.0088	0.0008 *
Moon	88456-07-18 03:36 G	34029149.39	34029149.65	34029149.92	0.0088	0.0015
Earth	88456-07-18 04:48 G	34029149.46	34029149.70	34029149.97	0.0088	0.0012 *
Earth	88457-07-20 15:51 G	34029516.93	34029517.16	34029517.42	0.0088	0.0031
Moon	88457-07-20 18:15 G	34029517.02	34029517.26	34029517.50	0.0088	0.0026 *
Moon	88458-07-23 00:29 G	34029884.31	34029884.52	34029884.73	0.0088	0.0054
Earth	88458-07-23 03:08 G	34029884.43	34029884.63	34029884.86	0.0088	0.0049 *
Earth	88459-07-25 14:10 G	34030251.95	34030252.09	34030252.27	0.0088	0.0068
Moon	88459-07-25 17:46 G	34030252.08	34030252.24	34030252.43	0.0088	0.0064 *
Earth	88460-07-27 01:12 G	34030619.54	34030619.55	34030619.61	0.0088	0.0087
Mercury	88479-12-09 01:56 G	34037693.58	34037693.58	34037693.59	0.0088	0.0088
Mercury	88480-03-06 03:08 G	34037781.59	34037781.63	34037781.69	0.0088	0.0081
Mercury	88480-06-02 04:34 G	34037869.63	34037869.69	34037869.77	0.0088	0.0074
Mercury	88480-08-29 05:46 G	34037957.67	34037957.74	34037957.84	0.0088	0.0067
Mercury	88480-11-25 07:12 G	34038045.71	34038045.80	34038045.91	0.0088	0.0060
Mercury	88481-02-21 08:53 G	34038133.76	34038133.87	34038133.98	0.0088	0.0052
Mercury	88481-05-20 10:05 G	34038221.81	34038221.92	34038222.04	0.0088	0.0045
Mercury	88481-08-16 11:32 G	34038309.86	34038309.98	34038310.11	0.0088	0.0038
Mercury	88481-11-12 12:58 G	34038397.91	34038398.04	34038398.17	0.0088	0.0031
Mercury	88482-02-08 14:10 G	34038485.97	34038486.09	34038486.23	0.0088	0.0024

Mercury	88482-05-07 15:36 G	34038574.02	34038574.15	34038574.29	0.0088	0.0016
Mercury	88482-08-03 17:03 G	34038662.08	34038662.21	34038662.35	0.0088	0.0009
Mercury	88482-10-30 18:29 G	34038750.13	34038750.27	34038750.41	0.0088	0.0002
Mercury	88483-01-26 19:56 G	34038838.19	34038838.33	34038838.47	0.0088	0.0006
Mercury	88483-04-24 21:22 G	34038926.25	34038926.39	34038926.52	0.0088	0.0013
Mercury	88483-07-21 22:34 G	34039014.31	34039014.44	34039014.58	0.0088	0.0020
Mercury	88483-10-18 00:00 G	34039102.37	34039102.50	34039102.63	0.0088	0.0028
Mercury	88484-01-14 01:27 G	34039190.44	34039190.56	34039190.69	0.0088	0.0035
Mercury	88484-04-11 02:39 G	34039278.50	34039278.61	34039278.74	0.0088	0.0043
Mercury	88484-07-08 04:05 G	34039366.57	34039366.67	34039366.79	0.0088	0.0050
Mercury	88484-10-04 05:46 G	34039454.64	34039454.74	34039454.84	0.0088	0.0057
Mercury	88484-12-31 06:58 G	34039542.71	34039542.79	34039542.89	0.0088	0.0064
Mercury	88485-03-29 08:24 G	34039630.78	34039630.85	34039630.94	0.0088	0.0072
Mercury	88485-06-25 10:05 G	34039718.86	34039718.92	34039718.98	0.0088	0.0079
Mercury	88485-09-21 11:17 G	34039806.96	34039806.97	34039807.00	0.0088	0.0086
Mars	88488-05-28 01:27 G	34040786.25	34040786.56	34040786.90	0.0088	0.0026
Venus	88522-02-28 06:29 G	34053114.72	34053114.77	34053114.87	0.0088	0.0084
Venus	88522-10-11 19:41 G	34053340.22	34053340.32	34053340.46	0.0088	0.0074
Venus	88523-05-25 08:39 G	34053565.73	34053565.86	34053566.03	0.0088	0.0064
Venus	88524-01-05 21:22 G	34053791.24	34053791.39	34053791.59	0.0088	0.0054
Venus	88524-08-18 10:48 G	34054016.76	34054016.95	34054017.14	0.0089	0.0043
Venus	88525-03-31 23:32 G	34054242.28	34054242.48	34054242.69	0.0089	0.0033
Venus	88525-11-12 12:29 G	34054467.81	34054468.02	34054468.24	0.0089	0.0023
Venus	88526-06-26 01:12 G	34054693.34	34054693.55	34054693.78	0.0089	0.0013
Venus	88527-02-06 14:10 G	34054918.87	34054919.09	34054919.31	0.0089	0.0002
Venus	88527-09-20 03:08 G	34055144.41	34055144.63	34055144.85	0.0089	0.0008
Venus	88528-05-02 15:36 G	34055369.95	34055370.15	34055370.38	0.0089	0.0019
Venus	88528-12-14 04:34 G	34055595.49	34055595.69	34055595.90	0.0089	0.0029
Venus	88529-07-27 17:17 G	34055821.03	34055821.22	34055821.43	0.0089	0.0039
Venus	88530-03-10 06:00 G	34056046.58	34056046.75	34056046.95	0.0089	0.0049

Venus	88530-10-21 18:58 G	34056272.14	34056272.29	34056272.47	0.0089	0.0059
Venus	88531-06-04 07:56 G	34056497.70	34056497.83	34056497.98	0.0089	0.0069
Venus	88532-01-15 20:53 G	34056723.28	34056723.37	34056723.47	0.0089	0.0079
Moon	88535-01-10 23:03 G	34057814.38	34057814.46	34057814.56	0.0089	0.0082
Earth	88535-01-11 01:12 G	34057814.50	34057814.55	34057814.67	0.0089	0.0084 *
Earth	88536-01-13 13:41 G	34058181.92	34058182.07	34058182.27	0.0089	0.0064
Moon	88536-01-13 16:20 G	34058182.02	34058182.18	34058182.37	0.0089	0.0066 *
Moon	88537-01-15 01:41 G	34058549.36	34058549.57	34058549.80	0.0089	0.0043
Earth	88537-01-15 02:24 G	34058549.39	34058549.60	34058549.83	0.0089	0.0044 *
Moon	88538-01-17 14:24 G	34058916.85	34058917.10	34058917.36	0.0089	0.0026
Earth	88538-01-17 14:39 G	34058916.87	34058917.11	34058917.37	0.0089	0.0025 *
Earth	88539-01-20 02:53 G	34059284.36	34059284.62	34059284.88	0.0089	0.0005
Moon	88539-01-20 04:05 G	34059284.42	34059284.67	34059284.92	0.0089	0.0003 *
Moon	88540-01-22 12:15 G	34059651.75	34059652.01	34059652.27	0.0089	0.0013
Earth	88540-01-22 15:08 G	34059651.88	34059652.13	34059652.39	0.0089	0.0015 *
Earth	88541-01-24 03:08 G	34060019.40	34060019.63	34060019.88	0.0089	0.0034
Moon	88541-01-24 06:15 G	34060019.54	34060019.76	34060020.00	0.0089	0.0036 *
Moon	88542-01-26 11:17 G	34060386.78	34060386.97	34060387.20	0.0089	0.0051
Earth	88542-01-26 14:53 G	34060386.94	34060387.12	34060387.35	0.0089	0.0054 *
Earth	88543-01-29 03:08 G	34060754.50	34060754.63	34060754.79	0.0089	0.0073
Moon	88543-01-29 06:58 G	34060754.66	34060754.79	34060754.93	0.0089	0.0076 *
Mercury	88563-05-31 11:46 G	34068181.97	34068181.99	34068182.05	0.0090	0.0088
Mercury	88563-08-27 15:22 G	34068270.06	34068270.14	34068270.25	0.0090	0.0077
Mercury	88563-11-23 18:58 G	34068358.17	34068358.29	34068358.42	0.0090	0.0066
Mercury	88564-02-19 22:34 G	34068446.29	34068446.44	34068446.59	0.0090	0.0055
Mercury	88564-05-18 01:41 G	34068534.42	34068534.57	34068534.74	0.0090	0.0045
Mercury	88564-08-14 05:17 G	34068622.55	34068622.72	34068622.90	0.0090	0.0034
Mercury	88564-11-10 08:24 G	34068710.68	34068710.85	34068711.04	0.0090	0.0024
Mercury	88565-02-06 12:00 G	34068798.82	34068799.00	34068799.19	0.0090	0.0013
Mercury	88565-05-05 15:22 G	34068886.96	34068887.14	34068887.33	0.0090	0.0002

Mercury	88565-08-01 18:44 G	34068975.10	34068975.28	34068975.47	0.0090	0.0009
Mercury	88565-10-28 22:05 G	34069063.24	34069063.42	34069063.60	0.0090	0.0019
Mercury	88566-01-25 01:12 G	34069151.38	34069151.55	34069151.73	0.0090	0.0030
Mercury	88566-04-23 04:34 G	34069239.53	34069239.69	34069239.86	0.0090	0.0040
Mercury	88566-07-20 07:41 G	34069327.68	34069327.82	34069327.99	0.0090	0.0051
Mercury	88566-10-16 11:03 G	34069415.83	34069415.96	34069416.10	0.0090	0.0061
Mercury	88567-01-12 14:24 G	34069503.99	34069504.10	34069504.22	0.0090	0.0071
Mercury	88567-04-10 17:17 G	34069592.17	34069592.22	34069592.32	0.0090	0.0082
Mars	88570-02-23 06:44 G	34070641.54	34070641.78	34070642.04	0.0090	0.0045
Mars	88572-01-18 02:53 G	34071335.46	34071335.62	34071335.78	0.0090	0.0075
Venus	88603-01-20 14:10 G	34082660.04	34082660.09	34082660.15	0.0089	0.0085
Venus	88603-09-03 03:08 G	34082885.52	34082885.63	34082885.75	0.0089	0.0075
Venus	88604-04-15 16:20 G	34083111.04	34083111.18	34083111.34	0.0089	0.0065
Venus	88604-11-27 05:17 G	34083336.56	34083336.72	34083336.90	0.0089	0.0055
Venus	88605-07-10 18:15 G	34083562.09	34083562.26	34083562.47	0.0089	0.0045
Venus	88606-02-21 07:27 G	34083787.62	34083787.81	34083788.02	0.0089	0.0035
Venus	88606-10-04 20:39 G	34084013.16	34084013.36	34084013.58	0.0089	0.0024
Venus	88607-05-18 09:51 G	34084238.70	34084238.91	34084239.13	0.0089	0.0014
Venus	88607-12-29 23:03 G	34084464.24	34084464.46	34084464.68	0.0089	0.0003
Venus	88608-08-11 12:15 G	34084689.79	34084690.01	34084690.23	0.0089	0.0007
Venus	88609-03-25 01:12 G	34084915.35	34084915.55	34084915.78	0.0089	0.0018
Venus	88609-11-05 14:24 G	34085140.90	34085141.10	34085141.32	0.0089	0.0028
Venus	88610-06-19 03:51 G	34085366.46	34085366.66	34085366.86	0.0089	0.0038
Venus	88611-01-30 16:34 G	34085592.02	34085592.19	34085592.39	0.0089	0.0049
Venus	88611-09-13 05:46 G	34085817.59	34085817.74	34085817.92	0.0089	0.0059
Venus	88612-04-25 19:12 G	34086043.18	34086043.30	34086043.45	0.0089	0.0069
Venus	88612-12-07 08:24 G	34086268.77	34086268.85	34086268.96	0.0088	0.0079
Moon	88616-07-10 11:32 G	34087579.85	34087579.98	34087580.16	0.0088	0.0070
Earth	88616-07-10 14:10 G	34087579.95	34087580.09	34087580.25	0.0088	0.0072 *
Earth	88617-07-13 01:12 G	34087947.35	34087947.55	34087947.76	0.0088	0.0053

Moon	88617-07-13 01:41 G	34087947.39	34087947.57	34087947.80	0.0088	0.0056 *
Earth	88618-07-15 12:00 G	34088314.78	34088315.00	34088315.25	0.0088	0.0034
Moon	88618-07-15 12:58 G	34088314.81	34088315.04	34088315.27	0.0088	0.0031 *
Moon	88619-07-17 22:05 G	34088682.16	34088682.42	34088682.68	0.0088	0.0018
Earth	88619-07-17 23:17 G	34088682.22	34088682.47	34088682.73	0.0088	0.0015 *
Earth	88620-07-19 10:20 G	34089049.68	34089049.93	34089050.19	0.0088	0.0004
Moon	88620-07-19 13:12 G	34089049.80	34089050.05	34089050.30	0.0088	0.0008 *
Moon	88621-07-21 18:00 G	34089417.01	34089417.25	34089417.52	0.0088	0.0020
Earth	88621-07-21 21:36 G	34089417.15	34089417.40	34089417.65	0.0088	0.0023 *
Earth	88622-07-24 08:39 G	34089784.64	34089784.86	34089785.09	0.0088	0.0042
Moon	88622-07-24 11:46 G	34089784.79	34089784.99	34089785.24	0.0088	0.0046 *
Moon	88623-07-26 16:20 G	34090152.00	34090152.18	34090152.38	0.0088	0.0058
Earth	88623-07-26 19:56 G	34090152.15	34090152.33	34090152.52	0.0088	0.0062 *
Earth	88624-07-28 06:58 G	34090519.70	34090519.79	34090519.91	0.0088	0.0080
Moon	88624-07-28 09:22 G	34090519.83	34090519.89	34090520.00	0.0088	0.0083 *
Mercury	88644-09-06 00:58 G	34097864.53	34097864.54	34097864.57	0.0088	0.0086
Mercury	88644-12-03 02:24 G	34097952.55	34097952.60	34097952.66	0.0088	0.0079
Mercury	88645-03-01 03:51 G	34098040.59	34098040.66	34098040.74	0.0088	0.0072
Mercury	88645-05-28 05:03 G	34098128.63	34098128.71	34098128.81	0.0088	0.0065
Mercury	88645-08-24 06:29 G	34098216.67	34098216.77	34098216.87	0.0088	0.0058
Mercury	88645-11-20 07:41 G	34098304.72	34098304.82	34098304.94	0.0088	0.0051
Mercury	88646-02-16 09:08 G	34098392.77	34098392.88	34098393.00	0.0088	0.0043
Mercury	88646-05-15 10:34 G	34098480.82	34098480.94	34098481.07	0.0088	0.0036
Mercury	88646-08-11 12:00 G	34098568.87	34098569.00	34098569.13	0.0088	0.0029
Mercury	88646-11-07 13:27 G	34098656.93	34098657.06	34098657.19	0.0088	0.0022
Mercury	88647-02-03 14:39 G	34098744.98	34098745.11	34098745.25	0.0088	0.0015
Mercury	88647-05-02 16:05 G	34098833.04	34098833.17	34098833.31	0.0088	0.0007
Mercury	88647-07-29 17:32 G	34098921.09	34098921.23	34098921.37	0.0088	0.0000
Mercury	88647-10-25 18:58 G	34099009.15	34099009.29	34099009.42	0.0088	0.0007
Mercury	88648-01-21 20:10 G	34099097.21	34099097.34	34099097.48	0.0088	0.0015

Mercury	88648-04-18 21:36 G	34099185.27	34099185.40	34099185.54	0.0088	0.0022
Mercury	88648-07-15 23:03 G	34099273.33	34099273.46	34099273.59	0.0088	0.0029
Mercury	88648-10-12 00:29 G	34099361.40	34099361.52	34099361.65	0.0088	0.0036
Mercury	88649-01-08 01:56 G	34099449.46	34099449.58	34099449.70	0.0088	0.0044
Mercury	88649-04-06 03:22 G	34099537.53	34099537.64	34099537.75	0.0088	0.0051
Mercury	88649-07-03 04:34 G	34099625.60	34099625.69	34099625.80	0.0088	0.0059
Mercury	88649-09-29 06:00 G	34099713.67	34099713.75	34099713.85	0.0088	0.0066
Mercury	88649-12-26 07:41 G	34099801.75	34099801.82	34099801.89	0.0088	0.0073
Mercury	88650-03-24 08:53 G	34099889.83	34099889.87	34099889.93	0.0088	0.0081
Mars	88652-01-11 09:22 G	34100547.78	34100547.89	34100548.05	0.0088	0.0080
Saturn	88652-05-05 02:39 G	34100661.97	34100662.61	34100663.36	0.0088	0.0030
Mars	88653-12-07 09:51 G	34101243.66	34101243.91	34101244.20	0.0088	0.0053
Venus	88686-06-02 15:07 G	34113109.12	34113109.13	34113109.18	0.0088	0.0088
Venus	88687-01-14 04:05 G	34113334.58	34113334.67	34113334.79	0.0088	0.0078
Venus	88687-08-27 17:03 G	34113560.09	34113560.21	34113560.37	0.0088	0.0068
Venus	88688-04-09 06:00 G	34113785.60	34113785.75	34113785.94	0.0088	0.0058
Venus	88688-11-20 19:27 G	34114011.12	34114011.31	34114011.49	0.0088	0.0047
Venus	88689-07-04 08:10 G	34114236.64	34114236.84	34114237.04	0.0088	0.0037
Venus	88690-02-14 20:53 G	34114462.17	34114462.37	34114462.59	0.0089	0.0027
Venus	88690-09-28 10:05 G	34114687.71	34114687.92	34114688.14	0.0089	0.0016
Venus	88691-05-11 23:03 G	34114913.24	34114913.46	34114913.68	0.0089	0.0006
Venus	88691-12-23 11:46 G	34115138.77	34115138.99	34115139.21	0.0089	0.0004
Venus	88692-08-05 00:29 G	34115364.31	34115364.52	34115364.74	0.0089	0.0014
Venus	88693-03-18 13:12 G	34115589.85	34115590.05	34115590.27	0.0089	0.0025
Venus	88693-10-30 02:10 G	34115815.40	34115815.59	34115815.80	0.0089	0.0035
Venus	88694-06-12 14:53 G	34116040.95	34116041.12	34116041.32	0.0089	0.0045
Venus	88695-01-24 03:51 G	34116266.50	34116266.66	34116266.84	0.0089	0.0055
Venus	88695-09-06 16:48 G	34116492.05	34116492.20	34116492.35	0.0089	0.0065
Venus	88696-04-19 05:03 G	34116717.62	34116717.71	34116717.85	0.0089	0.0076
Venus	88696-11-30 17:46 G	34116943.21	34116943.24	34116943.33	0.0089	0.0086

Moon	88699-01-11 07:41 G	34117714.75	34117714.82	34117714.89	0.0089	0.0085
Moon	88700-01-13 18:15 G	34118082.14	34118082.26	34118082.40	0.0089	0.0075
Earth	88700-01-13 18:15 G	34118082.14	34118082.26	34118082.45	0.0089	0.0071 *
Moon	88701-01-16 06:00 G	34118449.53	34118449.75	34118449.99	0.0089	0.0046
Earth	88701-01-16 07:12 G	34118449.60	34118449.80	34118450.02	0.0089	0.0051 *
Earth	88702-01-18 19:12 G	34118817.07	34118817.30	34118817.56	0.0089	0.0032
Moon	88702-01-18 21:36 G	34118817.18	34118817.40	34118817.64	0.0089	0.0036 *
Moon	88703-01-21 05:03 G	34119184.45	34119184.71	34119184.97	0.0089	0.0007
Earth	88703-01-21 07:41 G	34119184.57	34119184.82	34119185.08	0.0089	0.0012 *
Earth	88704-01-23 19:55 G	34119552.08	34119552.33	34119552.59	0.0089	0.0008
Moon	88704-01-23 23:31 G	34119552.23	34119552.48	34119552.74	0.0089	0.0004 *
Moon	88705-01-25 04:19 G	34119919.46	34119919.68	34119919.94	0.0089	0.0033
Earth	88705-01-25 07:55 G	34119919.60	34119919.83	34119920.09	0.0089	0.0028 *
Earth	88706-01-27 19:41 G	34120287.12	34120287.32	34120287.56	0.0089	0.0047
Moon	88706-01-27 23:31 G	34120287.25	34120287.48	34120287.71	0.0089	0.0043 *
Moon	88707-01-30 05:17 G	34120654.59	34120654.72	34120654.89	0.0089	0.0071
Earth	88707-01-30 07:55 G	34120654.67	34120654.83	34120655.02	0.0089	0.0066 *
Earth	88708-02-01 20:10 G	34121022.28	34121022.34	34121022.42	0.0089	0.0086
Moon	88708-02-01 21:22 G	34121022.30	34121022.39	34121022.51	0.0089	0.0082 *
Mercury	88728-02-27 09:07 G	34128352.84	34128352.88	34128352.94	0.0090	0.0086
Mercury	88728-05-25 12:15 G	34128440.93	34128441.01	34128441.13	0.0090	0.0076
Mercury	88728-08-21 15:51 G	34128529.05	34128529.16	34128529.31	0.0090	0.0065
Mercury	88728-11-17 19:27 G	34128617.17	34128617.31	34128617.47	0.0090	0.0054
Mercury	88729-02-13 23:03 G	34128705.30	34128705.46	34128705.63	0.0090	0.0043
Mercury	88729-05-13 02:10 G	34128793.43	34128793.59	34128793.78	0.0090	0.0033
Mercury	88729-08-09 05:46 G	34128881.57	34128881.74	34128881.93	0.0090	0.0022
Mercury	88729-11-05 09:22 G	34128969.70	34128969.89	34128970.07	0.0090	0.0011
Mercury	88730-02-01 12:43 G	34129057.84	34129058.03	34129058.21	0.0090	0.0001
Mercury	88730-04-30 15:51 G	34129145.98	34129146.16	34129146.35	0.0090	0.0011
Mercury	88730-07-27 19:12 G	34129234.12	34129234.30	34129234.49	0.0090	0.0021

Mercury	88730-10-23 22:19 G	34129322.27	34129322.43	34129322.62	0.0090	0.0032
Mercury	88731-01-20 01:41 G	34129410.42	34129410.57	34129410.75	0.0090	0.0042
Mercury	88731-04-18 05:17 G	34129498.57	34129498.72	34129498.87	0.0090	0.0052
Mercury	88731-07-15 08:10 G	34129586.73	34129586.84	34129586.99	0.0090	0.0063
Mercury	88731-10-11 11:31 G	34129674.89	34129674.98	34129675.10	0.0090	0.0073
Mercury	88732-01-07 15:07 G	34129763.06	34129763.13	34129763.20	0.0090	0.0083
Mars	88735-09-04 05:17 G	34131098.46	34131098.72	34131099.02	0.0090	0.0024
Venus	88767-12-06 10:48 G	34142879.88	34142879.95	34142880.07	0.0089	0.0080
Venus	88768-07-18 23:46 G	34143105.38	34143105.49	34143105.65	0.0089	0.0070
Venus	88769-03-01 13:12 G	34143330.90	34143331.05	34143331.23	0.0089	0.0059
Venus	88769-10-13 02:24 G	34143556.42	34143556.60	34143556.79	0.0089	0.0049
Venus	88770-05-26 15:22 G	34143781.96	34143782.14	34143782.35	0.0089	0.0039
Venus	88771-01-07 04:19 G	34144007.49	34144007.68	34144007.91	0.0089	0.0029
Venus	88771-08-20 17:46 G	34144233.03	34144233.24	34144233.46	0.0089	0.0018
Venus	88772-04-02 06:58 G	34144458.57	34144458.79	34144459.01	0.0089	0.0008
Venus	88772-11-13 20:10 G	34144684.12	34144684.34	34144684.56	0.0089	0.0003
Venus	88773-06-27 09:07 G	34144909.67	34144909.88	34144910.10	0.0089	0.0013
Venus	88774-02-07 22:05 G	34145135.22	34145135.42	34145135.64	0.0089	0.0024
Venus	88774-09-21 11:17 G	34145360.77	34145360.97	34145361.18	0.0089	0.0034
Venus	88775-05-05 00:43 G	34145586.34	34145586.53	34145586.72	0.0089	0.0044
Venus	88775-12-16 13:27 G	34145811.91	34145812.06	34145812.25	0.0089	0.0055
Venus	88776-07-29 02:39 G	34146037.48	34146037.61	34146037.78	0.0089	0.0065
Venus	88777-03-11 16:05 G	34146263.06	34146263.17	34146263.30	0.0089	0.0075
Venus	88777-10-23 05:17 G	34146488.67	34146488.72	34146488.79	0.0089	0.0085
Earth	88780-07-10 19:55 G	34147480.21	34147480.33	34147480.45	0.0088	0.0078
Moon	88780-07-10 19:55 G	34147480.24	34147480.33	34147480.46	0.0088	0.0081 *
Earth	88781-07-13 06:29 G	34147847.60	34147847.77	34147847.98	0.0088	0.0059
Moon	88781-07-13 07:27 G	34147847.64	34147847.81	34147848.02	0.0088	0.0057 *
Moon	88782-07-15 15:07 G	34148214.91	34148215.13	34148215.38	0.0088	0.0043
Earth	88782-07-15 17:31 G	34148215.02	34148215.23	34148215.48	0.0088	0.0041 *



Earth	88783-07-18 04:34 G	34148582.45	34148582.69	34148582.95	0.0088	0.0022
Moon	88783-07-18 07:27 G	34148582.57	34148582.81	34148583.06	0.0088	0.0018 *
Moon	88784-07-19 12:15 G	34148949.75	34148950.01	34148950.27	0.0088	0.0006
Earth	88784-07-19 15:51 G	34148949.91	34148950.16	34148950.42	0.0088	0.0003 *
Earth	88785-07-22 02:53 G	34149317.37	34149317.62	34149317.87	0.0088	0.0017
Moon	88785-07-22 06:15 G	34149317.51	34149317.76	34149318.02	0.0088	0.0020 *
Moon	88786-07-24 10:34 G	34149684.72	34149684.94	34149685.19	0.0088	0.0033
Earth	88786-07-24 13:27 G	34149684.85	34149685.06	34149685.32	0.0088	0.0037 *
Earth	88787-07-27 00:29 G	34150052.34	34150052.52	34150052.75	0.0088	0.0055
Moon	88787-07-27 03:07 G	34150052.45	34150052.63	34150052.85	0.0088	0.0059 *
Moon	88788-07-28 10:48 G	34150419.83	34150419.95	34150420.12	0.0088	0.0071
Earth	88788-07-28 11:31 G	34150419.87	34150419.98	34150420.15	0.0088	0.0074 *
Mercury	88809-06-04 00:15 G	34158035.48	34158035.51	34158035.55	0.0088	0.0084
Mercury	88809-08-31 01:41 G	34158123.51	34158123.57	34158123.63	0.0088	0.0077
Mercury	88809-11-27 02:53 G	34158211.55	34158211.62	34158211.71	0.0088	0.0070
Mercury	88810-02-23 04:19 G	34158299.59	34158299.68	34158299.78	0.0088	0.0063
Mercury	88810-05-22 05:31 G	34158387.64	34158387.73	34158387.84	0.0088	0.0056
Mercury	88810-08-18 06:58 G	34158475.68	34158475.79	34158475.91	0.0088	0.0049
Mercury	88810-11-14 08:24 G	34158563.73	34158563.85	34158563.97	0.0088	0.0041
Mercury	88811-02-10 09:36 G	34158651.78	34158651.90	34158652.03	0.0088	0.0035
Mercury	88811-05-09 11:03 G	34158739.84	34158739.96	34158740.09	0.0088	0.0027
Mercury	88811-08-05 12:29 G	34158827.89	34158828.02	34158828.15	0.0088	0.0020
Mercury	88811-11-01 13:55 G	34158915.94	34158916.08	34158916.21	0.0088	0.0013
Mercury	88812-01-28 15:07 G	34159004.00	34159004.13	34159004.27	0.0088	0.0007
Mercury	88812-04-25 16:34 G	34159092.06	34159092.19	34159092.33	0.0088	0.0003
Mercury	88812-07-22 18:00 G	34159180.11	34159180.25	34159180.39	0.0088	0.0009
Mercury	88812-10-18 19:27 G	34159268.17	34159268.31	34159268.44	0.0088	0.0016
Mercury	88813-01-14 20:39 G	34159356.24	34159356.36	34159356.50	0.0088	0.0024
Mercury	88813-04-12 22:05 G	34159444.30	34159444.42	34159444.55	0.0088	0.0031
Mercury	88813-07-09 23:31 G	34159532.36	34159532.48	34159532.61	0.0088	0.0038

Mercury	88813-10-06 00:58 G	34159620.43	34159620.54	34159620.66	0.0088	0.0045
Mercury	88814-01-02 02:24 G	34159708.49	34159708.60	34159708.71	0.0088	0.0053
Mercury	88814-03-31 03:51 G	34159796.56	34159796.66	34159796.76	0.0088	0.0060
Mercury	88814-06-27 05:03 G	34159884.64	34159884.71	34159884.81	0.0088	0.0068
Mercury	88814-09-23 06:43 G	34159972.71	34159972.78	34159972.85	0.0088	0.0075
Mercury	88814-12-20 07:55 G	34160060.80	34160060.83	34160060.89	0.0088	0.0082
Mars	88817-07-21 18:43 G	34161004.94	34161005.28	34161005.62	0.0088	0.0002
Venus	88851-04-18 12:58 G	34173328.97	34173329.04	34173329.14	0.0088	0.0082
Venus	88851-11-30 01:41 G	34173554.47	34173554.57	34173554.72	0.0088	0.0072
Venus	88852-07-12 14:39 G	34173779.97	34173780.11	34173780.29	0.0088	0.0062
Venus	88853-02-23 03:36 G	34174005.49	34174005.65	34174005.85	0.0088	0.0052
Venus	88853-10-06 17:03 G	34174231.02	34174231.21	34174231.41	0.0088	0.0041
Venus	88854-05-20 05:46 G	34174456.55	34174456.74	34174456.96	0.0088	0.0031
Venus	88854-12-31 18:43 G	34174682.07	34174682.28	34174682.50	0.0089	0.0021
Venus	88855-08-14 07:41 G	34174907.60	34174907.82	34174908.04	0.0089	0.0010
Venus	88856-03-26 20:39 G	34175133.14	34175133.36	34175133.58	0.0089	0.0000
Venus	88856-11-07 09:36 G	34175358.68	34175358.90	34175359.12	0.0089	0.0010
Venus	88857-06-20 22:19 G	34175584.22	34175584.43	34175584.65	0.0089	0.0021
Venus	88858-02-01 11:03 G	34175809.76	34175809.96	34175810.17	0.0089	0.0031
Venus	88858-09-15 00:00 G	34176035.31	34176035.50	34176035.70	0.0089	0.0041
Venus	88859-04-28 12:58 G	34176260.86	34176261.04	34176261.22	0.0089	0.0051
Venus	88859-12-10 01:12 G	34176486.41	34176486.55	34176486.73	0.0089	0.0062
Venus	88860-07-22 13:55 G	34176711.98	34176712.08	34176712.23	0.0089	0.0072
Venus	88861-03-05 02:39 G	34176937.55	34176937.61	34176937.72	0.0089	0.0082
Moon	88864-01-13 21:51 G	34177982.30	34177982.41	34177982.56	0.0089	0.0077
Earth	88864-01-13 23:31 G	34177982.37	34177982.48	34177982.62	0.0089	0.0077 *
Earth	88865-01-15 11:31 G	34178349.81	34178349.98	34178350.20	0.0089	0.0058
Moon	88865-01-15 14:24 G	34178349.92	34178350.10	34178350.30	0.0089	0.0058 *
Moon	88866-01-17 20:39 G	34178717.14	34178717.36	34178717.61	0.0089	0.0039
Earth	88866-01-18 00:15 G	34178717.29	34178717.51	34178717.75	0.0089	0.0038 *

Jupiter	88866-05-13 14:10 G	34178832.84	34178833.09	34178833.41	0.0089	0.0076
Earth	88867-01-20 12:29 G	34179084.78	34179085.02	34179085.28	0.0089	0.0019
Moon	88867-01-20 15:51 G	34179084.93	34179085.16	34179085.43	0.0089	0.0020 *
Moon	88868-01-22 21:36 G	34179452.14	34179452.40	34179452.65	0.0089	0.0002
Earth	88868-01-23 01:12 G	34179452.29	34179452.55	34179452.81	0.0089	0.0001 *
Earth	88869-01-24 12:58 G	34179819.80	34179820.04	34179820.31	0.0089	0.0021
Moon	88869-01-24 15:51 G	34179819.91	34179820.16	34179820.43	0.0089	0.0020 *
Moon	88870-01-26 23:17 G	34180187.25	34180187.47	34180187.70	0.0089	0.0041
Earth	88870-01-27 01:12 G	34180187.33	34180187.55	34180187.79	0.0089	0.0040 *
Earth	88871-01-29 13:41 G	34180554.88	34180555.07	34180555.26	0.0089	0.0060
Moon	88871-01-29 14:10 G	34180554.91	34180555.09	34180555.31	0.0089	0.0059 *
Earth	88872-02-01 01:12 G	34180922.46	34180922.55	34180922.69	0.0089	0.0079
Moon	88872-02-01 01:41 G	34180922.49	34180922.57	34180922.71	0.0089	0.0081 *
Mercury	88892-11-23 06:00 G	34188523.71	34188523.75	34188523.83	0.0090	0.0085
Mercury	88893-02-19 09:36 G	34188611.81	34188611.90	34188612.02	0.0090	0.0074
Mercury	88893-05-18 13:12 G	34188699.93	34188700.05	34188700.19	0.0090	0.0063
Mercury	88893-08-14 16:48 G	34188788.05	34188788.20	34188788.36	0.0090	0.0052
Mercury	88893-11-10 19:55 G	34188876.18	34188876.33	34188876.51	0.0090	0.0042
Mercury	88894-02-06 23:31 G	34188964.31	34188964.48	34188964.67	0.0090	0.0031
Mercury	88894-05-06 03:07 G	34189052.45	34189052.63	34189052.81	0.0090	0.0020
Mercury	88894-08-02 06:29 G	34189140.59	34189140.77	34189140.96	0.0090	0.0009
Mercury	88894-10-29 09:51 G	34189228.73	34189228.91	34189229.10	0.0090	0.0002
Mercury	88895-01-25 13:12 G	34189316.87	34189317.05	34189317.24	0.0090	0.0012
Mercury	88895-04-23 16:19 G	34189405.01	34189405.18	34189405.37	0.0090	0.0023
Mercury	88895-07-20 19:55 G	34189493.16	34189493.33	34189493.50	0.0090	0.0033
Mercury	88895-10-16 23:03 G	34189581.31	34189581.46	34189581.63	0.0090	0.0044
Mercury	88896-01-13 02:24 G	34189669.46	34189669.60	34189669.76	0.0090	0.0054
Mercury	88896-04-10 05:31 G	34189757.62	34189757.73	34189757.87	0.0090	0.0065
Mercury	88896-07-07 08:53 G	34189845.78	34189845.87	34189845.98	0.0090	0.0075
Mercury	88896-10-03 12:15 G	34189933.96	34189934.01	34189934.07	0.0090	0.0085

Mars	88899-04-19 10:34 G	34190861.68	34190861.94	34190862.23	0.0090	0.0028
Venus	88932-03-09 18:43 G	34202874.23	34202874.28	34202874.37	0.0089	0.0084
Venus	88932-10-21 07:41 G	34203099.72	34203099.82	34203099.96	0.0089	0.0074
Venus	88933-06-03 20:53 G	34203325.24	34203325.37	34203325.54	0.0089	0.0064
Venus	88934-01-15 10:19 G	34203550.76	34203550.93	34203551.11	0.0089	0.0053
Venus	88934-08-28 23:17 G	34203776.29	34203776.47	34203776.67	0.0089	0.0043
Venus	88935-04-11 12:29 G	34204001.82	34204002.02	34204002.23	0.0089	0.0033
Venus	88935-11-23 01:27 G	34204227.36	34204227.56	34204227.79	0.0089	0.0023
Venus	88936-07-05 14:53 G	34204452.90	34204453.12	34204453.34	0.0089	0.0012
Venus	88937-02-16 03:51 G	34204678.44	34204678.66	34204678.88	0.0089	0.0002
Venus	88937-09-29 17:03 G	34204903.99	34204904.21	34204904.43	0.0089	0.0009
Venus	88938-05-13 06:15 G	34205129.54	34205129.76	34205129.98	0.0089	0.0019
Venus	88938-12-24 18:58 G	34205355.10	34205355.29	34205355.51	0.0089	0.0030
Venus	88939-08-07 08:10 G	34205580.66	34205580.84	34205581.05	0.0089	0.0040
Venus	88940-03-19 21:36 G	34205806.22	34205806.40	34205806.59	0.0089	0.0050
Venus	88940-10-31 10:19 G	34206031.79	34206031.93	34206032.11	0.0089	0.0061
Venus	88941-06-13 23:46 G	34206257.37	34206257.49	34206257.64	0.0089	0.0071
Venus	88942-01-25 12:58 G	34206482.97	34206483.04	34206483.14	0.0089	0.0081
Earth	88944-07-11 01:12 G	34207380.50	34207380.55	34207380.66	0.0088	0.0085
Moon	88944-07-11 03:07 G	34207380.63	34207380.63	34207380.66	0.0088	0.0088 *
Moon	88945-07-13 09:51 G	34207747.75	34207747.91	34207748.13	0.0088	0.0062
Earth	88945-07-13 12:29 G	34207747.87	34207748.02	34207748.22	0.0088	0.0066 *
Earth	88946-07-15 23:31 G	34208115.28	34208115.48	34208115.72	0.0088	0.0047
Moon	88946-07-16 02:53 G	34208115.44	34208115.62	34208115.85	0.0088	0.0052 *
Moon	88947-07-18 07:27 G	34208482.57	34208482.81	34208483.07	0.0088	0.0024
Earth	88947-07-18 10:48 G	34208482.72	34208482.95	34208483.21	0.0088	0.0028 *
Earth	88948-07-19 21:51 G	34208850.16	34208850.41	34208850.67	0.0088	0.0009
Moon	88948-07-20 01:27 G	34208850.31	34208850.56	34208850.83	0.0088	0.0013 *
Moon	88949-07-22 06:15 G	34209217.53	34209217.76	34209218.02	0.0088	0.0015
Earth	88949-07-22 09:07 G	34209217.62	34209217.88	34209218.14	0.0088	0.0010 *

Earth	88950-07-24 19:55 G	34209585.10	34209585.33	34209585.58	0.0088	0.0030
Moon	88950-07-24 21:36 G	34209585.16	34209585.40	34209585.67	0.0088	0.0027 *
Moon	88951-07-27 05:46 G	34209952.56	34209952.74	34209952.96	0.0088	0.0053
Earth	88951-07-27 06:43 G	34209952.58	34209952.78	34209953.01	0.0088	0.0049 *
Moon	88952-07-28 16:34 G	34210320.04	34210320.19	34210320.41	0.0088	0.0064
Earth	88952-07-28 17:46 G	34210320.10	34210320.24	34210320.43	0.0088	0.0068 *
Earth	88953-07-31 04:48 G	34210687.67	34210687.70	34210687.78	0.0088	0.0086
Mercury	88974-03-01 23:31 G	34218206.44	34218206.48	34218206.53	0.0088	0.0082
Mercury	88974-05-29 00:58 G	34218294.47	34218294.54	34218294.61	0.0088	0.0075
Mercury	88974-08-25 02:10 G	34218382.51	34218382.59	34218382.68	0.0088	0.0068
Mercury	88974-11-21 03:36 G	34218470.55	34218470.65	34218470.75	0.0088	0.0061
Mercury	88975-02-17 04:48 G	34218558.60	34218558.70	34218558.81	0.0088	0.0054
Mercury	88975-05-16 06:15 G	34218646.65	34218646.76	34218646.88	0.0088	0.0047
Mercury	88975-08-12 07:27 G	34218734.70	34218734.81	34218734.94	0.0088	0.0040
Mercury	88975-11-08 08:53 G	34218822.75	34218822.87	34218823.00	0.0088	0.0032
Mercury	88976-02-04 10:05 G	34218910.80	34218910.92	34218911.06	0.0088	0.0026
Mercury	88976-05-02 11:46 G	34218998.85	34218998.99	34218999.12	0.0088	0.0018
Mercury	88976-07-29 12:58 G	34219086.91	34219087.04	34219087.18	0.0088	0.0011
Mercury	88976-10-25 14:24 G	34219174.96	34219175.10	34219175.24	0.0088	0.0004
Mercury	88977-01-21 15:51 G	34219263.02	34219263.16	34219263.30	0.0088	0.0004
Mercury	88977-04-19 17:17 G	34219351.08	34219351.22	34219351.35	0.0088	0.0011
Mercury	88977-07-16 18:29 G	34219439.14	34219439.27	34219439.41	0.0088	0.0018
Mercury	88977-10-12 19:55 G	34219527.20	34219527.33	34219527.46	0.0088	0.0025
Mercury	88978-01-08 21:22 G	34219615.26	34219615.39	34219615.52	0.0088	0.0033
Mercury	88978-04-06 22:48 G	34219703.33	34219703.45	34219703.57	0.0088	0.0040
Mercury	88978-07-04 00:00 G	34219791.39	34219791.50	34219791.62	0.0088	0.0048
Mercury	88978-09-30 01:27 G	34219879.46	34219879.56	34219879.67	0.0088	0.0055
Mercury	88978-12-27 02:53 G	34219967.53	34219967.62	34219967.72	0.0088	0.0062
Mercury	88979-03-25 04:05 G	34220055.60	34220055.67	34220055.77	0.0088	0.0070
Mercury	88979-06-21 05:46 G	34220143.68	34220143.74	34220143.81	0.0088	0.0077

Mercury	88979-09-17 07:12 G	34220231.77	34220231.80	34220231.84	0.0088	0.0084
Mars	88981-03-05 01:41 G	34220766.33	34220766.57	34220766.86	0.0088	0.0056
Mars	88983-01-30 04:19 G	34221462.53	34221462.68	34221462.86	0.0088	0.0077

# 90TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 90th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	89015-07-22 22:05 G		34233323.39	34233323.42	34233323.50	0.0088	0.0085	
Venus	89016-03-04 11:03 G		34233548.87	34233548.96	34233549.09	0.0088	0.0075	
Venus	89016-10-16 00:00 G		34233774.38	34233774.50	34233774.67	0.0088	0.0066	
Venus	89017-05-29 13:27 G		34233999.89	34234000.06	34234000.23	0.0088	0.0055	
Venus	89018-01-10 02:10 G		34234225.41	34234225.59	34234225.79	0.0088	0.0045	
Venus	89018-08-23 14:53 G		34234450.93	34234451.12	34234451.34	0.0088	0.0035	
Venus	89019-04-06 03:51 G		34234676.46	34234676.66	34234676.89	0.0088	0.0025	
Venus	89019-11-17 17:03 G		34234902.00	34234902.21	34234902.43	0.0089	0.0014	
Venus	89020-06-30 06:00 G		34235127.53	34235127.75	34235127.97	0.0089	0.0004	
Venus	89021-02-10 18:58 G		34235353.07	34235353.29	34235353.51	0.0089	0.0007	
Venus	89021-09-24 07:55 G		34235578.61	34235578.83	34235579.05	0.0089	0.0017	
Venus	89022-05-07 20:24 G		34235804.16	34235804.35	34235804.57	0.0089	0.0028	
Venus	89022-12-19 09:22 G		34236029.70	34236029.89	34236030.10	0.0089	0.0038	
Venus	89023-08-01 22:05 G		34236255.25	34236255.42	34236255.62	0.0089	0.0048	
Venus	89024-03-14 10:48 G		34236480.80	34236480.95	34236481.13	0.0089	0.0058	

Venus	89024-10-26 00:00 G	34236706.37	34236706.50	34236706.65	0.0089	0.0068
Venus	89025-06-08 12:43 G	34236931.94	34236932.03	34236932.14	0.0089	0.0078
Venus	89026-01-20 01:27 G	34237157.55	34237157.56	34237157.59	0.0089	0.0088
Earth	89028-01-15 05:31 G	34237882.65	34237882.73	34237882.83	0.0089	0.0083
Moon	89028-01-15 08:10 G	34237882.75	34237882.84	34237882.98	0.0089	0.0079 *
Moon	89029-01-16 13:55 G	34238249.94	34238250.08	34238250.26	0.0089	0.0069
Earth	89029-01-16 17:31 G	34238250.07	34238250.23	34238250.43	0.0089	0.0064 *
Earth	89030-01-19 05:46 G	34238617.53	34238617.74	34238617.98	0.0089	0.0045
Moon	89030-01-19 09:22 G	34238617.67	34238617.89	34238618.14	0.0089	0.0040 *
Moon	89031-01-21 15:07 G	34238984.91	34238985.13	34238985.39	0.0089	0.0030
Earth	89031-01-21 18:15 G	34238985.02	34238985.26	34238985.52	0.0089	0.0025 *
Earth	89032-01-24 06:43 G	34239352.52	34239352.78	34239353.04	0.0089	0.0006
Moon	89032-01-24 09:36 G	34239352.63	34239352.90	34239353.16	0.0089	0.0001 *
Jupiter	89032-07-16 00:43 G	34239526.16	34239526.53	34239526.98	0.0089	0.0060
Moon	89033-01-25 18:00 G	34239720.00	34239720.25	34239720.50	0.0089	0.0009
Earth	89033-01-25 18:58 G	34239720.04	34239720.29	34239720.55	0.0089	0.0014 *
Earth	89034-01-28 07:12 G	34240087.57	34240087.80	34240088.04	0.0089	0.0033
Moon	89034-01-28 06:58 G	34240087.57	34240087.79	34240088.05	0.0089	0.0038 *
Earth	89035-01-30 19:12 G	34240455.11	34240455.30	34240455.52	0.0089	0.0053
Moon	89035-01-30 20:10 G	34240455.14	34240455.34	34240455.56	0.0089	0.0049 *
Moon	89036-02-02 04:34 G	34240822.58	34240822.69	34240822.84	0.0089	0.0077
Earth	89036-02-02 07:12 G	34240822.67	34240822.80	34240822.97	0.0089	0.0073 *
Moon	89037-02-03 21:51 G	34241190.39	34241190.41	34241190.48	0.0089	0.0088
Mercury	89057-08-22 03:51 G	34248694.60	34248694.66	34248694.74	0.0090	0.0082
Mercury	89057-11-18 06:58 G	34248782.70	34248782.79	34248782.93	0.0090	0.0072
Mercury	89058-02-14 10:34 G	34248870.82	34248870.94	34248871.10	0.0090	0.0061
Mercury	89058-05-13 14:10 G	34248958.95	34248959.09	34248959.26	0.0090	0.0050
Mercury	89058-08-09 17:46 G	34249047.08	34249047.24	34249047.41	0.0090	0.0039
Mercury	89058-11-05 21:07 G	34249135.21	34249135.38	34249135.57	0.0090	0.0028
Mercury	89059-02-02 00:29 G	34249223.35	34249223.52	34249223.71	0.0090	0.0018

Mercury	89059-05-01 04:05 G	34249311.48	34249311.67	34249311.86	0.0090	0.0007
Mercury	89059-07-28 07:27 G	34249399.63	34249399.81	34249400.00	0.0090	0.0004
Mercury	89059-10-24 10:48 G	34249487.77	34249487.95	34249488.14	0.0090	0.0015
Mercury	89060-01-20 14:10 G	34249575.91	34249576.09	34249576.27	0.0090	0.0025
Mercury	89060-04-17 17:17 G	34249664.06	34249664.22	34249664.40	0.0090	0.0036
Mercury	89060-07-14 20:53 G	34249752.21	34249752.37	34249752.53	0.0090	0.0046
Mercury	89060-10-11 00:00 G	34249840.37	34249840.50	34249840.65	0.0090	0.0057
Mercury	89061-01-07 03:22 G	34249928.53	34249928.64	34249928.77	0.0090	0.0067
Mercury	89061-04-05 06:29 G	34250016.69	34250016.77	34250016.88	0.0090	0.0078
Mercury	89061-07-02 09:51 G	34250104.89	34250104.91	34250104.96	0.0090	0.0088
Mars	89062-12-04 16:05 G	34250625.05	34250625.17	34250625.35	0.0090	0.0077
Mars	89064-10-28 10:48 G	34251318.71	34251318.95	34251319.22	0.0090	0.0042
Venus	89096-06-12 03:07 G	34262868.62	34262868.63	34262868.67	0.0089	0.0088
Venus	89097-01-23 16:05 G	34263094.09	34263094.17	34263094.29	0.0089	0.0078
Venus	89097-09-06 05:03 G	34263319.59	34263319.71	34263319.88	0.0089	0.0068
Venus	89098-04-19 18:58 G	34263545.12	34263545.29	34263545.45	0.0089	0.0057
Venus	89098-12-01 07:41 G	34263770.65	34263770.82	34263771.02	0.0089	0.0047
Venus	89099-07-14 20:39 G	34263996.18	34263996.36	34263996.58	0.0089	0.0037
Venus	89100-02-25 09:51 G	34264221.71	34264221.91	34264222.13	0.0089	0.0027
Venus	89100-10-08 23:17 G	34264447.25	34264447.47	34264447.69	0.0089	0.0016
Venus	89101-05-22 12:15 G	34264672.80	34264673.01	34264673.24	0.0089	0.0006
Venus	89102-01-03 01:27 G	34264898.34	34264898.56	34264898.78	0.0089	0.0005
Venus	89102-08-16 14:39 G	34265123.89	34265124.11	34265124.32	0.0089	0.0015
Venus	89103-03-30 03:22 G	34265349.44	34265349.64	34265349.87	0.0089	0.0026
Venus	89103-11-10 16:34 G	34265575.00	34265575.19	34265575.40	0.0089	0.0036
Venus	89104-06-23 05:31 G	34265800.56	34265800.73	34265800.94	0.0089	0.0047
Venus	89105-02-03 18:29 G	34266026.12	34266026.27	34266026.46	0.0089	0.0057
Venus	89105-09-17 07:41 G	34266251.70	34266251.82	34266251.98	0.0089	0.0067
Venus	89106-04-30 21:07 G	34266477.29	34266477.38	34266477.50	0.0089	0.0077
Venus	89106-12-12 09:51 G	34266702.91	34266702.91	34266702.98	0.0089	0.0088



Earth	89109-07-14 18:29 G	34267648.14	34267648.27	34267648.44	0.0088	0.0072
Moon	89109-07-14 21:51 G	34267648.29	34267648.41	34267648.57	0.0088	0.0074 *
Moon	89110-07-17 02:10 G	34268015.40	34268015.59	34268015.81	0.0088	0.0052
Earth	89110-07-17 05:46 G	34268015.55	34268015.74	34268015.96	0.0088	0.0053 *
Earth	89111-07-19 16:48 G	34268382.97	34268383.20	34268383.45	0.0088	0.0034
Moon	89111-07-19 19:41 G	34268383.10	34268383.32	34268383.58	0.0088	0.0036 *
Moon	89112-07-21 01:41 G	34268750.32	34268750.57	34268750.82	0.0088	0.0013
Earth	89112-07-21 04:19 G	34268750.42	34268750.68	34268750.93	0.0088	0.0015 *
Earth	89113-07-23 15:22 G	34269117.88	34269118.14	34269118.40	0.0088	0.0004
Moon	89113-07-23 16:19 G	34269117.92	34269118.18	34269118.45	0.0088	0.0003 *
Earth	89114-07-26 02:10 G	34269485.35	34269485.59	34269485.84	0.0088	0.0023
Moon	89114-07-26 02:10 G	34269485.36	34269485.59	34269485.84	0.0088	0.0025 *
Moon	89115-07-28 11:46 G	34269852.78	34269852.99	34269853.25	0.0088	0.0041
Earth	89115-07-28 12:58 G	34269852.83	34269853.04	34269853.29	0.0088	0.0043 *
Earth	89116-07-29 23:46 G	34270220.34	34270220.49	34270220.71	0.0088	0.0062
Moon	89116-07-30 02:24 G	34270220.45	34270220.60	34270220.80	0.0088	0.0063 *
Moon	89117-08-01 07:41 G	34270587.73	34270587.82	34270587.97	0.0088	0.0079
Earth	89117-08-01 11:17 G	34270587.88	34270587.97	34270588.09	0.0088	0.0080 *
Mercury	89138-09-01 21:22 G	34278289.38	34278289.39	34278289.41	0.0088	0.0087
Mercury	89138-11-28 22:48 G	34278377.40	34278377.45	34278377.50	0.0088	0.0080
Mercury	89139-02-25 00:00 G	34278465.43	34278465.50	34278465.58	0.0088	0.0073
Mercury	89139-05-24 01:27 G	34278553.48	34278553.56	34278553.65	0.0088	0.0066
Mercury	89139-08-20 02:39 G	34278641.52	34278641.61	34278641.72	0.0088	0.0059
Mercury	89139-11-16 04:05 G	34278729.57	34278729.67	34278729.78	0.0088	0.0052
Mercury	89140-02-12 05:17 G	34278817.61	34278817.72	34278817.85	0.0088	0.0045
Mercury	89140-05-10 06:43 G	34278905.66	34278905.78	34278905.91	0.0088	0.0038
Mercury	89140-08-06 08:10 G	34278993.72	34278993.84	34278993.97	0.0088	0.0030
Mercury	89140-11-02 09:36 G	34279081.77	34279081.90	34279082.03	0.0088	0.0023
Mercury	89141-01-29 11:03 G	34279169.82	34279169.96	34279170.09	0.0088	0.0016
Mercury	89141-04-27 12:15 G	34279257.88	34279258.01	34279258.15	0.0088	0.0009

Mercury	89141-07-24 13:41 G	34279345.93	34279346.07	34279346.21	0.0088	0.0002
Mercury	89141-10-20 15:07 G	34279433.99	34279434.13	34279434.26	0.0088	0.0006
Mercury	89142-01-16 16:19 G	34279522.05	34279522.18	34279522.32	0.0088	0.0013
Mercury	89142-04-14 17:46 G	34279610.11	34279610.24	34279610.38	0.0088	0.0020
Mercury	89142-07-11 19:12 G	34279698.17	34279698.30	34279698.43	0.0088	0.0027
Mercury	89142-10-07 20:39 G	34279786.23	34279786.36	34279786.49	0.0088	0.0035
Mercury	89143-01-03 22:05 G	34279874.30	34279874.42	34279874.54	0.0088	0.0042
Mercury	89143-04-01 23:17 G	34279962.36	34279962.47	34279962.59	0.0088	0.0049
Mercury	89143-06-29 00:43 G	34280050.43	34280050.53	34280050.64	0.0088	0.0057
Mercury	89143-09-25 02:10 G	34280138.50	34280138.59	34280138.69	0.0088	0.0064
Mercury	89143-12-22 03:22 G	34280226.57	34280226.64	34280226.73	0.0088	0.0072
Mercury	89144-03-19 04:48 G	34280314.65	34280314.70	34280314.77	0.0088	0.0079
Mercury	89144-06-15 06:29 G	34280402.75	34280402.77	34280402.79	0.0088	0.0086
Mars	89146-09-14 12:00 G	34281223.69	34281224.00	34281224.35	0.0088	0.0024
Venus	89180-06-06 20:53 G	34293543.28	34293543.37	34293543.48	0.0088	0.0079
Venus	89181-01-18 09:51 G	34293768.78	34293768.91	34293769.05	0.0088	0.0069
Venus	89181-08-31 22:34 G	34293994.29	34293994.44	34293994.62	0.0088	0.0059
Venus	89182-04-14 11:31 G	34294219.81	34294219.98	34294220.18	0.0088	0.0049
Venus	89182-11-26 00:15 G	34294445.33	34294445.51	34294445.73	0.0088	0.0039
Venus	89183-07-09 13:27 G	34294670.86	34294671.06	34294671.28	0.0088	0.0028
Venus	89184-02-20 02:24 G	34294896.39	34294896.60	34294896.82	0.0088	0.0018
Venus	89184-10-02 15:22 G	34295121.93	34295122.14	34295122.37	0.0089	0.0008
Venus	89185-05-16 04:19 G	34295347.47	34295347.68	34295347.91	0.0089	0.0004
Venus	89185-12-27 17:17 G	34295573.01	34295573.22	34295573.44	0.0089	0.0013
Venus	89186-08-10 06:00 G	34295798.55	34295798.75	34295798.97	0.0089	0.0024
Venus	89187-03-23 18:58 G	34296024.09	34296024.29	34296024.50	0.0089	0.0034
Venus	89187-11-04 08:10 G	34296249.65	34296249.84	34296250.03	0.0089	0.0044
Venus	89188-06-16 20:39 G	34296475.20	34296475.36	34296475.55	0.0089	0.0055
Venus	89189-01-28 09:22 G	34296700.76	34296700.89	34296701.06	0.0089	0.0065
Venus	89189-09-10 22:19 G	34296926.33	34296926.43	34296926.56	0.0089	0.0075

Venus	89190-04-24 11:03 G	34297151.92	34297151.96	34297152.04	0.0089	0.0085
Moon	89192-01-15 08:24 G	34297782.82	34297782.85	34297782.93	0.0089	0.0087
Earth	89192-01-15 12:15 G	34297783.01	34297783.01	34297783.04	0.0089	0.0089
Earth	89193-01-17 00:00 G	34298150.37	34298150.50	34298150.69	0.0089	0.0070
Moon	89193-01-17 04:05 G	34298150.52	34298150.67	34298150.84	0.0089	0.0070 *
Moon	89194-01-19 09:51 G	34298517.72	34298517.91	34298518.14	0.0089	0.0049
Earth	89194-01-19 12:58 G	34298517.83	34298518.04	34298518.26	0.0089	0.0050 *
Earth	89195-01-22 00:58 G	34298885.31	34298885.54	34298885.80	0.0089	0.0031
Moon	89195-01-22 02:53 G	34298885.38	34298885.62	34298885.88	0.0089	0.0032 *
Moon	89196-01-24 12:15 G	34299252.77	34299253.01	34299253.27	0.0089	0.0011
Earth	89196-01-24 13:12 G	34299252.80	34299253.05	34299253.32	0.0089	0.0012 *
Moon	89197-01-26 00:43 G	34299620.27	34299620.53	34299620.81	0.0089	0.0007
Earth	89197-01-26 01:41 G	34299620.31	34299620.57	34299620.83	0.0089	0.0008 *
Earth	89198-01-28 13:55 G	34299987.84	34299988.08	34299988.33	0.0089	0.0027
Moon	89198-01-28 15:51 G	34299987.92	34299988.16	34299988.39	0.0089	0.0029 *
Moon	89199-01-30 23:31 G	34300355.26	34300355.48	34300355.71	0.0089	0.0046
Earth	89199-01-31 01:55 G	34300355.38	34300355.58	34300355.81	0.0089	0.0047 *
Earth	89200-02-02 13:55 G	34300722.93	34300723.08	34300723.27	0.0089	0.0067
Moon	89200-02-02 17:31 G	34300723.08	34300723.23	34300723.41	0.0089	0.0067 *
Moon	89201-02-03 22:34 G	34301090.39	34301090.44	34301090.54	0.0089	0.0085
Earth	89201-02-04 02:24 G	34301090.54	34301090.60	34301090.68	0.0089	0.0086 *
Mercury	89222-05-20 01:41 G	34308865.49	34308865.57	34308865.66	0.0090	0.0079
Mercury	89222-08-16 04:48 G	34308953.60	34308953.70	34308953.84	0.0090	0.0069
Mercury	89222-11-12 08:24 G	34309041.72	34309041.85	34309042.00	0.0090	0.0058
Mercury	89223-02-08 12:00 G	34309129.84	34309130.00	34309130.16	0.0090	0.0047
Mercury	89223-05-07 15:36 G	34309217.98	34309218.15	34309218.32	0.0090	0.0036
Mercury	89223-08-03 18:43 G	34309306.11	34309306.28	34309306.47	0.0090	0.0026
Mercury	89223-10-30 22:19 G	34309394.25	34309394.43	34309394.62	0.0090	0.0015
Mercury	89224-01-27 01:41 G	34309482.39	34309482.57	34309482.76	0.0090	0.0005
Mercury	89224-04-24 05:17 G	34309570.53	34309570.72	34309570.90	0.0090	0.0007

Mercury	89224-07-21 08:24 G	34309658.67	34309658.85	34309659.04	0.0090	0.0018
Mercury	89224-10-17 12:00 G	34309746.82	34309747.00	34309747.18	0.0090	0.0028
Mercury	89225-01-13 15:07 G	34309834.97	34309835.13	34309835.31	0.0090	0.0039
Mercury	89225-04-11 18:43 G	34309923.12	34309923.28	34309923.43	0.0090	0.0049
Mercury	89225-07-08 21:36 G	34310011.28	34310011.40	34310011.55	0.0090	0.0060
Mercury	89225-10-05 01:12 G	34310099.44	34310099.55	34310099.67	0.0090	0.0070
Mercury	89226-01-01 04:19 G	34310187.61	34310187.68	34310187.77	0.0090	0.0081
Saturn	89227-01-21 17:17 G	34310572.80	34310573.22	34310573.73	0.0090	0.0062
Mars	89228-06-13 17:31 G	34311081.95	34311082.23	34311082.53	0.0090	0.0007
Venus	89261-04-28 00:43 G	34323088.47	34323088.53	34323088.63	0.0089	0.0082
Venus	89261-12-09 13:55 G	34323313.97	34323314.08	34323314.23	0.0089	0.0072
Venus	89262-07-23 03:22 G	34323539.49	34323539.64	34323539.80	0.0089	0.0061
Venus	89263-03-05 16:19 G	34323765.01	34323765.18	34323765.37	0.0089	0.0051
Venus	89263-10-17 05:31 G	34323990.55	34323990.73	34323990.94	0.0089	0.0041
Venus	89264-05-29 18:58 G	34324216.08	34324216.29	34324216.50	0.0089	0.0030
Venus	89265-01-10 07:55 G	34324441.62	34324441.83	34324442.05	0.0089	0.0020
Venus	89265-08-23 21:07 G	34324667.16	34324667.38	34324667.60	0.0089	0.0009
Venus	89266-04-06 10:19 G	34324892.71	34324892.93	34324893.15	0.0089	0.0002
Venus	89266-11-17 23:17 G	34325118.26	34325118.47	34325118.70	0.0089	0.0012
Venus	89267-07-01 12:29 G	34325343.81	34325344.02	34325344.24	0.0089	0.0022
Venus	89268-02-12 01:41 G	34325569.36	34325569.57	34325569.77	0.0089	0.0032
Venus	89268-09-24 14:24 G	34325794.92	34325795.10	34325795.31	0.0089	0.0043
Venus	89269-05-08 03:51 G	34326020.49	34326020.66	34326020.84	0.0089	0.0053
Venus	89269-12-19 17:03 G	34326246.06	34326246.21	34326246.37	0.0089	0.0063
Venus	89270-08-02 05:46 G	34326471.64	34326471.74	34326471.88	0.0089	0.0074
Venus	89271-03-15 18:58 G	34326697.24	34326697.29	34326697.38	0.0089	0.0084
Moon	89273-07-13 22:19 G	34327548.35	34327548.43	34327548.54	0.0088	0.0082
Earth	89273-07-14 01:27 G	34327548.46	34327548.56	34327548.71	0.0088	0.0078 *
Earth	89274-07-16 12:29 G	34327915.85	34327916.02	34327916.23	0.0088	0.0059
Moon	89274-07-16 15:36 G	34327915.96	34327916.15	34327916.37	0.0088	0.0054 *

Moon	89275-07-18 22:19 G	34328283.23	34328283.43	34328283.66	0.0088	0.0045
Earth	89275-07-19 00:00 G	34328283.28	34328283.50	34328283.74	0.0088	0.0040 *
Earth	89276-07-20 11:17 G	34328650.73	34328650.97	34328651.23	0.0088	0.0021
Moon	89276-07-20 12:15 G	34328650.75	34328651.01	34328651.28	0.0088	0.0016 *
Earth	89277-07-22 22:19 G	34329018.18	34329018.43	34329018.69	0.0088	0.0002
Moon	89277-07-22 23:03 G	34329018.21	34329018.46	34329018.71	0.0088	0.0006 *
Moon	89278-07-25 07:27 G	34329385.55	34329385.81	34329386.07	0.0088	0.0022
Earth	89278-07-25 09:22 G	34329385.65	34329385.89	34329386.15	0.0088	0.0018 *
Earth	89279-07-27 20:24 G	34329753.12	34329753.35	34329753.59	0.0088	0.0036
Moon	89279-07-27 22:48 G	34329753.23	34329753.45	34329753.70	0.0088	0.0032 *
Moon	89280-07-29 03:22 G	34330120.48	34330120.64	34330120.86	0.0088	0.0061
Earth	89280-07-29 07:12 G	34330120.62	34330120.80	34330121.02	0.0088	0.0055 *
Earth	89281-07-31 18:43 G	34330488.14	34330488.28	34330488.42	0.0088	0.0074
Moon	89281-07-31 21:36 G	34330488.27	34330488.40	34330488.58	0.0088	0.0070 *
Mercury	89303-05-30 20:39 G	34338460.34	34338460.36	34338460.40	0.0088	0.0085
Mercury	89303-08-26 21:51 G	34338548.36	34338548.41	34338548.49	0.0088	0.0078
Mercury	89303-11-22 23:17 G	34338636.40	34338636.47	34338636.56	0.0088	0.0071
Mercury	89304-02-19 00:29 G	34338724.44	34338724.52	34338724.63	0.0088	0.0064
Mercury	89304-05-17 02:10 G	34338812.49	34338812.59	34338812.69	0.0088	0.0056
Mercury	89304-08-13 03:36 G	34338900.54	34338900.65	34338900.76	0.0088	0.0049
Mercury	89304-11-09 04:48 G	34338988.59	34338988.70	34338988.82	0.0088	0.0042
Mercury	89305-02-05 06:15 G	34339076.64	34339076.76	34339076.88	0.0088	0.0035
Mercury	89305-05-04 07:27 G	34339164.69	34339164.81	34339164.95	0.0088	0.0028
Mercury	89305-07-31 08:53 G	34339252.74	34339252.87	34339253.01	0.0088	0.0021
Mercury	89305-10-27 10:19 G	34339340.80	34339340.93	34339341.07	0.0088	0.0013
Mercury	89306-01-23 11:46 G	34339428.85	34339428.99	34339429.12	0.0088	0.0006
Mercury	89306-04-21 12:58 G	34339516.91	34339517.04	34339517.18	0.0088	0.0003
Mercury	89306-07-18 14:24 G	34339604.97	34339605.10	34339605.24	0.0088	0.0009
Mercury	89306-10-14 15:51 G	34339693.03	34339693.16	34339693.30	0.0088	0.0016
Mercury	89307-01-10 17:17 G	34339781.09	34339781.22	34339781.35	0.0088	0.0023

Mercury	89307-04-08 18:29 G	34339869.15	34339869.27	34339869.40	0.0088	0.0030
Mercury	89307-07-05 19:55 G	34339957.21	34339957.33	34339957.46	0.0088	0.0037
Mercury	89307-10-01 21:22 G	34340045.27	34340045.39	34340045.51	0.0088	0.0045
Mercury	89307-12-28 22:48 G	34340133.34	34340133.45	34340133.56	0.0088	0.0052
Mercury	89308-03-26 00:00 G	34340221.41	34340221.50	34340221.61	0.0088	0.0060
Mercury	89308-06-22 01:27 G	34340309.48	34340309.56	34340309.65	0.0088	0.0067
Mercury	89308-09-18 02:53 G	34340397.55	34340397.62	34340397.70	0.0088	0.0074
Mercury	89308-12-15 04:05 G	34340485.64	34340485.67	34340485.73	0.0088	0.0082
Mars	89310-04-28 20:53 G	34340985.07	34340985.37	34340985.72	0.0088	0.0030
Venus	89344-09-09 06:43 G	34353537.73	34353537.78	34353537.89	0.0088	0.0083
Venus	89345-04-22 19:41 G	34353763.22	34353763.32	34353763.47	0.0088	0.0073
Venus	89345-12-04 08:53 G	34353988.72	34353988.87	34353989.04	0.0088	0.0062
Venus	89346-07-17 21:51 G	34354214.24	34354214.41	34354214.59	0.0088	0.0052
Venus	89347-02-28 10:34 G	34354439.76	34354439.94	34354440.15	0.0088	0.0042
Venus	89347-10-11 23:31 G	34354665.29	34354665.48	34354665.70	0.0088	0.0032
Venus	89348-05-24 12:43 G	34354890.82	34354891.03	34354891.25	0.0088	0.0021
Venus	89349-01-05 01:27 G	34355116.35	34355116.56	34355116.79	0.0089	0.0011
Venus	89349-08-18 14:24 G	34355341.88	34355342.10	34355342.32	0.0089	0.0001
Venus	89350-04-01 03:22 G	34355567.42	34355567.64	34355567.86	0.0089	0.0010
Venus	89350-11-12 16:05 G	34355792.97	34355793.17	34355793.39	0.0089	0.0021
Venus	89351-06-26 05:03 G	34356018.51	34356018.71	34356018.92	0.0089	0.0031
Venus	89352-02-06 18:00 G	34356244.06	34356244.25	34356244.45	0.0089	0.0041
Venus	89352-09-19 06:58 G	34356469.61	34356469.79	34356469.97	0.0089	0.0051
Venus	89353-05-02 19:27 G	34356695.17	34356695.31	34356695.49	0.0089	0.0062
Venus	89353-12-14 08:24 G	34356920.74	34356920.85	34356920.99	0.0089	0.0072
Venus	89354-07-27 21:07 G	34357146.32	34357146.38	34357146.48	0.0089	0.0082
Moon	89357-01-17 05:03 G	34358050.58	34358050.71	34358050.88	0.0089	0.0071
Earth	89357-01-17 07:41 G	34358050.70	34358050.82	34358050.97	0.0089	0.0075 *
Earth	89358-01-19 19:41 G	34358418.14	34358418.32	34358418.54	0.0089	0.0056
Moon	89358-01-19 21:22 G	34358418.20	34358418.39	34358418.60	0.0089	0.0060 *

Earth	89359-01-22 07:55 G	34358785.61	34358785.83	34358786.08	0.0089	0.0037
Moon	89359-01-22 08:24 G	34358785.63	34358785.85	34358786.09	0.0089	0.0033 *
Moon	89360-01-24 19:12 G	34359153.06	34359153.30	34359153.58	0.0089	0.0022
Earth	89360-01-24 20:39 G	34359153.10	34359153.36	34359153.61	0.0089	0.0017 *
Earth	89361-01-26 08:53 G	34359520.61	34359520.87	34359521.12	0.0089	0.0002
Moon	89361-01-26 11:03 G	34359520.71	34359520.96	34359521.21	0.0089	0.0007 *
Moon	89362-01-28 17:46 G	34359887.98	34359888.24	34359888.50	0.0089	0.0017
Earth	89362-01-28 20:39 G	34359888.13	34359888.36	34359888.63	0.0089	0.0022 *
Earth	89363-01-31 08:53 G	34360255.65	34360255.87	34360256.11	0.0089	0.0041
Moon	89363-01-31 12:00 G	34360255.80	34360256.00	34360256.24	0.0089	0.0046 *
Moon	89364-02-02 17:31 G	34360623.04	34360623.23	34360623.44	0.0089	0.0055
Earth	89364-02-02 21:07 G	34360623.21	34360623.38	34360623.58	0.0089	0.0060 *
Earth	89365-02-04 09:22 G	34360990.79	34360990.89	34360991.02	0.0089	0.0080
Moon	89365-02-04 12:00 G	34360990.95	34360991.00	34360991.12	0.0089	0.0085 *
Mercury	89386-11-18 20:10 G	34368948.30	34368948.34	34368948.39	0.0090	0.0086
Mercury	89387-02-14 23:17 G	34369036.39	34369036.47	34369036.59	0.0090	0.0076
Mercury	89387-05-14 02:53 G	34369124.50	34369124.62	34369124.76	0.0090	0.0065
Mercury	89387-08-10 06:29 G	34369212.63	34369212.77	34369212.93	0.0090	0.0054
Mercury	89387-11-06 10:05 G	34369300.76	34369300.92	34369301.09	0.0090	0.0043
Mercury	89388-02-02 13:12 G	34369388.89	34369389.05	34369389.24	0.0090	0.0033
Mercury	89388-04-30 16:48 G	34369477.03	34369477.20	34369477.39	0.0090	0.0022
Mercury	89388-07-27 20:24 G	34369565.16	34369565.35	34369565.54	0.0090	0.0011
Mercury	89388-10-23 23:46 G	34369653.31	34369653.49	34369653.68	0.0090	0.0001
Mercury	89389-01-20 03:07 G	34369741.45	34369741.63	34369741.82	0.0090	0.0011
Mercury	89389-04-18 06:29 G	34369829.59	34369829.77	34369829.96	0.0090	0.0021
Mercury	89389-07-15 09:51 G	34369917.74	34369917.91	34369918.09	0.0090	0.0032
Mercury	89389-10-11 12:58 G	34370005.89	34370006.04	34370006.22	0.0090	0.0043
Mercury	89390-01-07 16:34 G	34370094.05	34370094.19	34370094.35	0.0090	0.0053
Mercury	89390-04-05 19:41 G	34370182.21	34370182.32	34370182.47	0.0090	0.0064
Mercury	89390-07-02 23:03 G	34370270.37	34370270.46	34370270.58	0.0090	0.0074

Mercury	89390-09-29 02:39 G	34370358.55	34370358.61	34370358.67	0.0090	0.0084
Mars	89392-01-29 04:34 G	34370845.48	34370845.69	34370845.94	0.0090	0.0054
Mars	89393-12-22 20:10 G	34371539.16	34371539.34	34371539.56	0.0090	0.0064
Venus	89425-08-01 09:51 G	34383082.88	34383082.91	34383082.99	0.0089	0.0086
Venus	89426-03-14 23:17 G	34383308.37	34383308.47	34383308.60	0.0089	0.0075
Venus	89426-10-26 12:15 G	34383533.88	34383534.01	34383534.18	0.0089	0.0065
Venus	89427-06-09 01:12 G	34383759.40	34383759.55	34383759.75	0.0089	0.0055
Venus	89428-01-20 14:39 G	34383984.93	34383985.11	34383985.31	0.0089	0.0044
Venus	89428-09-02 03:36 G	34384210.46	34384210.65	34384210.87	0.0089	0.0034
Venus	89429-04-15 17:03 G	34384436.00	34384436.21	34384436.43	0.0089	0.0024
Venus	89429-11-27 06:15 G	34384661.55	34384661.76	34384661.98	0.0089	0.0013
Venus	89430-07-10 19:27 G	34384887.09	34384887.31	34384887.53	0.0089	0.0003
Venus	89431-02-21 08:24 G	34385112.64	34385112.85	34385113.07	0.0089	0.0008
Venus	89431-10-04 21:36 G	34385338.19	34385338.40	34385338.62	0.0089	0.0018
Venus	89432-05-17 10:34 G	34385563.74	34385563.94	34385564.16	0.0089	0.0029
Venus	89432-12-28 23:46 G	34385789.30	34385789.49	34385789.70	0.0089	0.0039
Venus	89433-08-11 12:29 G	34386014.86	34386015.02	34386015.23	0.0089	0.0050
Venus	89434-03-25 01:55 G	34386240.43	34386240.58	34386240.76	0.0089	0.0060
Venus	89434-11-05 15:07 G	34386466.01	34386466.13	34386466.27	0.0089	0.0070
Venus	89435-06-19 03:51 G	34386691.60	34386691.66	34386691.78	0.0089	0.0081
Earth	89437-07-15 09:07 G	34387448.81	34387448.88	34387448.99	0.0089	0.0083
Moon	89437-07-15 11:17 G	34387448.91	34387448.97	34387449.10	0.0089	0.0083 *
Moon	89438-07-17 18:43 G	34387816.13	34387816.28	34387816.47	0.0088	0.0065
Earth	89438-07-17 19:55 G	34387816.18	34387816.33	34387816.54	0.0088	0.0065 *
Moon	89439-07-20 06:58 G	34388183.58	34388183.79	34388184.04	0.0088	0.0046
Earth	89439-07-20 07:12 G	34388183.60	34388183.80	34388184.04	0.0088	0.0046 *
Earth	89440-07-21 18:29 G	34388551.04	34388551.27	34388551.53	0.0088	0.0027
Moon	89440-07-21 19:41 G	34388551.09	34388551.32	34388551.56	0.0088	0.0027 *
Jupiter	89441-07-08 19:12 G	34388902.94	34388903.30	34388903.74	0.0088	0.0058
Moon	89441-07-24 03:36 G	34388918.39	34388918.65	34388918.92	0.0088	0.0007



Earth	89441-07-24 06:00 G	34388918.49	34388918.75	34388919.01	0.0088	0.0007	*
Earth	89442-07-26 17:03 G	34389285.96	34389286.21	34389286.47	0.0088	0.0012	
Moon	89442-07-26 20:24 G	34389286.10	34389286.35	34389286.60	0.0088	0.0012	*
Moon	89443-07-29 00:29 G	34389653.30	34389653.52	34389653.78	0.0088	0.0032	
Earth	89443-07-29 04:05 G	34389653.44	34389653.67	34389653.92	0.0088	0.0031	*
Earth	89444-07-30 15:07 G	34390020.93	34390021.13	34390021.36	0.0088	0.0050	
Moon	89444-07-30 18:43 G	34390021.08	34390021.28	34390021.52	0.0088	0.0049	*
Moon	89445-08-01 23:17 G	34390388.33	34390388.47	34390388.65	0.0088	0.0069	
Earth	89445-08-02 01:55 G	34390388.45	34390388.58	34390388.77	0.0088	0.0069	*
Earth	89446-08-04 13:41 G	34390756.03	34390756.07	34390756.11	0.0088	0.0087	
Moon	89446-08-04 15:22 G	34390756.10	34390756.14	34390756.24	0.0088	0.0086	*
Mercury	89468-02-25 20:10 G	34398631.30	34398631.34	34398631.39	0.0088	0.0082	
Mercury	89468-05-23 21:22 G	34398719.33	34398719.39	34398719.47	0.0088	0.0075	
Mercury	89468-08-19 22:48 G	34398807.37	34398807.45	34398807.54	0.0088	0.0068	
Mercury	89468-11-16 00:00 G	34398895.42	34398895.50	34398895.61	0.0088	0.0061	
Mercury	89469-02-12 01:27 G	34398983.46	34398983.56	34398983.67	0.0088	0.0054	
Mercury	89469-05-11 02:39 G	34399071.51	34399071.61	34399071.74	0.0088	0.0047	
Mercury	89469-08-07 04:05 G	34399159.56	34399159.67	34399159.80	0.0088	0.0040	
Mercury	89469-11-03 05:31 G	34399247.61	34399247.73	34399247.86	0.0088	0.0032	
Mercury	89470-01-30 06:58 G	34399335.66	34399335.79	34399335.92	0.0088	0.0025	
Mercury	89470-04-28 08:24 G	34399423.72	34399423.85	34399423.98	0.0088	0.0018	
Mercury	89470-07-25 09:51 G	34399511.77	34399511.91	34399512.04	0.0088	0.0011	
Mercury	89470-10-21 11:03 G	34399599.83	34399599.96	34399600.10	0.0088	0.0004	
Mercury	89471-01-17 12:29 G	34399687.88	34399688.02	34399688.16	0.0088	0.0004	
Mercury	89471-04-15 13:55 G	34399775.94	34399776.08	34399776.21	0.0088	0.0011	
Mercury	89471-07-12 15:07 G	34399864.00	34399864.13	34399864.27	0.0088	0.0019	
Mercury	89471-10-08 16:34 G	34399952.06	34399952.19	34399952.32	0.0088	0.0026	
Mercury	89472-01-04 18:00 G	34400040.12	34400040.25	34400040.38	0.0088	0.0033	
Mercury	89472-04-01 19:27 G	34400128.19	34400128.31	34400128.43	0.0088	0.0040	
Mercury	89472-06-28 20:39 G	34400216.25	34400216.36	34400216.48	0.0088	0.0048	

Mercury	89472-09-24 22:05 G	34400304.32	34400304.42	34400304.53	0.0088	0.0055
Mercury	89472-12-21 23:31 G	34400392.39	34400392.48	34400392.58	0.0088	0.0062
Mercury	89473-03-20 00:43 G	34400480.46	34400480.53	34400480.62	0.0088	0.0070
Mercury	89473-06-16 02:10 G	34400568.54	34400568.59	34400568.66	0.0088	0.0077
Mercury	89473-09-12 03:36 G	34400656.62	34400656.65	34400656.69	0.0088	0.0084
Mars	89473-12-11 04:05 G	34400746.59	34400746.67	34400746.84	0.0088	0.0082
Mars	89475-11-07 09:51 G	34401442.65	34401442.91	34401443.21	0.0088	0.0051
Venus	89508-12-13 17:03 G	34413532.18	34413532.21	34413532.29	0.0088	0.0086
Venus	89509-07-27 06:00 G	34413757.65	34413757.75	34413757.88	0.0088	0.0076
Venus	89510-03-09 18:58 G	34413983.16	34413983.29	34413983.45	0.0088	0.0065
Venus	89510-10-21 08:24 G	34414208.68	34414208.85	34414209.02	0.0088	0.0055
Venus	89511-06-03 21:07 G	34414434.20	34414434.38	34414434.58	0.0088	0.0045
Venus	89512-01-15 09:51 G	34414659.72	34414659.91	34414660.13	0.0088	0.0035
Venus	89512-08-27 22:48 G	34414885.25	34414885.45	34414885.67	0.0088	0.0024
Venus	89513-04-10 12:00 G	34415110.78	34415111.00	34415111.21	0.0089	0.0014
Venus	89513-11-22 00:58 G	34415336.32	34415336.54	34415336.76	0.0089	0.0004
Venus	89514-07-05 13:41 G	34415561.85	34415562.07	34415562.29	0.0089	0.0007
Venus	89515-02-16 02:24 G	34415787.39	34415787.60	34415787.83	0.0089	0.0018
Venus	89515-09-29 15:22 G	34416012.94	34416013.14	34416013.36	0.0089	0.0028
Venus	89516-05-12 04:19 G	34416238.49	34416238.68	34416238.89	0.0089	0.0038
Venus	89516-12-23 17:17 G	34416464.04	34416464.22	34416464.41	0.0089	0.0048
Venus	89517-08-06 05:46 G	34416689.60	34416689.74	34416689.92	0.0089	0.0059
Venus	89518-03-19 18:43 G	34416915.16	34416915.28	34416915.44	0.0089	0.0069
Venus	89518-10-31 07:55 G	34417140.74	34417140.83	34417140.94	0.0089	0.0079
Earth	89521-01-18 15:51 G	34417951.07	34417951.16	34417951.28	0.0089	0.0080
Moon	89521-01-18 16:19 G	34417951.08	34417951.18	34417951.34	0.0089	0.0078 *
Earth	89522-01-21 04:05 G	34418318.50	34418318.67	34418318.87	0.0089	0.0061
Moon	89522-01-21 04:19 G	34418318.53	34418318.68	34418318.88	0.0089	0.0064 *
Moon	89523-01-23 14:10 G	34418685.87	34418686.09	34418686.35	0.0089	0.0039
Earth	89523-01-23 16:19 G	34418685.97	34418686.18	34418686.42	0.0089	0.0042 *

Earth	89524-01-26 04:34 G	34419053.45	34419053.69	34419053.95	0.0089	0.0023
Moon	89524-01-26 07:12 G	34419053.57	34419053.80	34419054.05	0.0089	0.0025 *
Moon	89525-01-27 13:41 G	34419420.81	34419421.07	34419421.33	0.0089	0.0001
Earth	89525-01-27 17:03 G	34419420.96	34419421.21	34419421.47	0.0089	0.0004 *
Earth	89526-01-30 05:03 G	34419788.47	34419788.71	34419788.97	0.0089	0.0016
Moon	89526-01-30 08:53 G	34419788.62	34419788.87	34419789.13	0.0089	0.0013 *
Moon	89527-02-01 13:41 G	34420155.86	34420156.07	34420156.32	0.0089	0.0037
Earth	89527-02-01 17:17 G	34420155.99	34420156.22	34420156.46	0.0089	0.0035 *
Earth	89528-02-04 05:03 G	34420523.53	34420523.71	34420523.93	0.0089	0.0055
Moon	89528-02-04 08:10 G	34420523.65	34420523.84	34420524.07	0.0089	0.0053 *
Moon	89529-02-05 15:51 G	34420891.05	34420891.16	34420891.31	0.0089	0.0076
Earth	89529-02-05 17:17 G	34420891.10	34420891.22	34420891.39	0.0089	0.0074 *
Mercury	89551-08-17 18:15 G	34429119.20	34429119.26	34429119.35	0.0090	0.0082
Mercury	89551-11-13 21:51 G	34429207.30	34429207.41	34429207.53	0.0090	0.0071
Mercury	89552-02-10 01:27 G	34429295.42	34429295.56	34429295.70	0.0090	0.0060
Mercury	89552-05-08 04:34 G	34429383.55	34429383.69	34429383.87	0.0090	0.0050
Mercury	89552-08-04 08:10 G	34429471.68	34429471.84	34429472.02	0.0090	0.0039
Mercury	89552-10-31 11:46 G	34429559.82	34429559.99	34429560.17	0.0090	0.0028
Mercury	89553-01-27 15:22 G	34429647.95	34429648.14	34429648.32	0.0090	0.0017
Mercury	89553-04-25 18:43 G	34429736.09	34429736.28	34429736.47	0.0090	0.0006
Mercury	89553-07-22 22:05 G	34429824.24	34429824.42	34429824.61	0.0090	0.0005
Mercury	89553-10-19 01:27 G	34429912.38	34429912.56	34429912.75	0.0090	0.0015
Mercury	89554-01-15 04:48 G	34430000.53	34430000.70	34430000.89	0.0090	0.0026
Mercury	89554-04-13 07:55 G	34430088.68	34430088.83	34430089.02	0.0090	0.0037
Mercury	89554-07-10 11:31 G	34430176.83	34430176.98	34430177.15	0.0090	0.0047
Mercury	89554-10-06 14:39 G	34430264.99	34430265.11	34430265.27	0.0090	0.0058
Mercury	89555-01-02 18:15 G	34430353.15	34430353.26	34430353.39	0.0090	0.0068
Mercury	89555-03-31 21:22 G	34430441.32	34430441.39	34430441.50	0.0090	0.0079
Mercury	89555-06-28 00:43 G	34430529.52	34430529.53	34430529.57	0.0090	0.0089
Mars	89557-08-09 08:39 G	34431302.59	34431302.86	34431303.15	0.0090	0.0018

Venus	89589-11-03 20:24 G	34443077.35	34443077.35	34443077.36	0.0089	0.0089
Venus	89590-06-17 08:53 G	34443302.80	34443302.87	34443303.00	0.0089	0.0079
Venus	89591-01-28 22:19 G	34443528.30	34443528.43	34443528.58	0.0089	0.0068
Venus	89591-09-11 11:17 G	34443753.82	34443753.97	34443754.15	0.0089	0.0058
Venus	89592-04-24 00:15 G	34443979.35	34443979.51	34443979.72	0.0089	0.0048
Venus	89592-12-05 13:41 G	34444204.88	34444205.07	34444205.28	0.0089	0.0037
Venus	89593-07-19 02:39 G	34444430.41	34444430.61	34444430.83	0.0089	0.0027
Venus	89594-03-01 15:51 G	34444655.95	34444656.16	34444656.38	0.0089	0.0017
Venus	89594-10-13 05:17 G	34444881.50	34444881.72	34444881.94	0.0089	0.0006
Venus	89595-05-26 18:15 G	34445107.05	34445107.26	34445107.49	0.0089	0.0005
Venus	89596-01-07 07:27 G	34445332.60	34445332.81	34445333.03	0.0089	0.0015
Venus	89596-08-19 20:24 G	34445558.15	34445558.35	34445558.57	0.0089	0.0026
Venus	89597-04-02 09:36 G	34445783.71	34445783.90	34445784.11	0.0089	0.0036
Venus	89597-11-13 23:03 G	34446009.27	34446009.46	34446009.65	0.0089	0.0046
Venus	89598-06-27 11:46 G	34446234.84	34446234.99	34446235.17	0.0089	0.0057
Venus	89599-02-08 00:58 G	34446460.41	34446460.54	34446460.69	0.0089	0.0067
Venus	89599-09-21 14:24 G	34446685.99	34446686.10	34446686.20	0.0089	0.0077
Venus	89600-05-04 02:53 G	34446911.61	34446911.62	34446911.68	0.0089	0.0088
Moon	89601-07-15 17:31 G	34447349.17	34447349.23	34447349.32	0.0089	0.0084
Earth	89601-07-15 18:00 G	34447349.24	34447349.25	34447349.30	0.0089	0.0088 *
Moon	89602-07-18 04:34 G	34447716.57	34447716.69	34447716.86	0.0089	0.0074
Earth	89602-07-18 04:48 G	34447716.57	34447716.70	34447716.88	0.0089	0.0070 *
Earth	89603-07-20 15:51 G	34448083.97	34448084.16	34448084.39	0.0088	0.0051
Moon	89603-07-20 18:15 G	34448084.05	34448084.26	34448084.47	0.0088	0.0046 *
Moon	89604-07-22 00:00 G	34448451.28	34448451.50	34448451.76	0.0088	0.0037
Earth	89604-07-22 03:07 G	34448451.40	34448451.63	34448451.88	0.0088	0.0032 *
Earth	89605-07-24 14:10 G	34448818.84	34448819.09	34448819.35	0.0088	0.0013
Moon	89605-07-24 17:17 G	34448818.97	34448819.22	34448819.48	0.0088	0.0008 *
Moon	89606-07-26 21:36 G	34449186.15	34449186.40	34449186.66	0.0088	0.0002
Earth	89606-07-27 01:12 G	34449186.30	34449186.55	34449186.81	0.0088	0.0007 *

Earth	89607-07-29 12:00 G	34449553.77	34449554.00	34449554.27	0.0088	0.0026
Moon	89607-07-29 15:36 G	34449553.91	34449554.15	34449554.40	0.0088	0.0030 *
Jupiter	89607-09-06 17:03 G	34449592.93	34449593.21	34449593.60	0.0088	0.0069
Moon	89608-07-30 20:24 G	34449921.14	34449921.35	34449921.59	0.0088	0.0039
Earth	89608-07-30 23:46 G	34449921.26	34449921.49	34449921.71	0.0088	0.0044 *
Earth	89609-08-02 10:34 G	34450288.77	34450288.94	34450289.13	0.0088	0.0062
Moon	89609-08-02 11:46 G	34450288.84	34450288.99	34450289.19	0.0088	0.0068 *
Moon	89610-08-04 21:07 G	34450656.28	34450656.38	34450656.52	0.0088	0.0077
Earth	89610-08-04 21:22 G	34450656.32	34450656.39	34450656.52	0.0088	0.0082 *
Mercury	89632-08-26 18:15 G	34458714.25	34458714.26	34458714.29	0.0088	0.0086
Mercury	89632-11-22 19:41 G	34458802.27	34458802.32	34458802.38	0.0088	0.0079
Mercury	89633-02-18 20:53 G	34458890.31	34458890.37	34458890.46	0.0088	0.0072
Mercury	89633-05-17 22:19 G	34458978.35	34458978.43	34458978.53	0.0088	0.0065
Mercury	89633-08-13 23:31 G	34459066.39	34459066.48	34459066.59	0.0088	0.0058
Mercury	89633-11-10 00:58 G	34459154.44	34459154.54	34459154.66	0.0088	0.0051
Mercury	89634-02-06 02:24 G	34459242.49	34459242.60	34459242.72	0.0088	0.0043
Mercury	89634-05-05 03:36 G	34459330.54	34459330.65	34459330.78	0.0088	0.0037
Mercury	89634-08-01 05:17 G	34459418.59	34459418.72	34459418.85	0.0088	0.0029
Mercury	89634-10-28 06:29 G	34459506.64	34459506.77	34459506.91	0.0088	0.0022
Mercury	89635-01-24 07:55 G	34459594.70	34459594.83	34459594.97	0.0088	0.0015
Mercury	89635-04-22 09:22 G	34459682.75	34459682.89	34459683.02	0.0088	0.0007
Mercury	89635-07-19 10:48 G	34459770.81	34459770.95	34459771.08	0.0088	0.0003
Mercury	89635-10-15 12:00 G	34459858.87	34459859.00	34459859.14	0.0088	0.0007
Mercury	89636-01-11 13:27 G	34459946.93	34459947.06	34459947.19	0.0088	0.0014
Mercury	89636-04-08 14:39 G	34460034.99	34460035.11	34460035.25	0.0088	0.0022
Mercury	89636-07-05 16:05 G	34460123.05	34460123.17	34460123.30	0.0088	0.0029
Mercury	89636-10-01 17:31 G	34460211.11	34460211.23	34460211.36	0.0088	0.0036
Mercury	89636-12-28 18:43 G	34460299.17	34460299.28	34460299.41	0.0088	0.0044
Mercury	89637-03-26 20:10 G	34460387.24	34460387.34	34460387.46	0.0088	0.0051
Mercury	89637-06-22 21:36 G	34460475.30	34460475.40	34460475.51	0.0088	0.0058

Mercury	89637-09-18 22:48 G	34460563.37	34460563.45	34460563.55	0.0088	0.0066
Mercury	89637-12-16 00:15 G	34460651.45	34460651.51	34460651.60	0.0088	0.0073
Mercury	89638-03-14 01:41 G	34460739.53	34460739.57	34460739.63	0.0088	0.0080
Mercury	89638-06-10 03:07 G	34460827.63	34460827.63	34460827.65	0.0088	0.0087
Mars	89639-06-21 20:24 G	34461204.01	34461204.35	34461204.70	0.0088	0.0001
Venus	89673-10-28 16:48 G	34473752.12	34473752.20	34473752.32	0.0088	0.0079
Venus	89674-06-11 05:31 G	34473977.62	34473977.73	34473977.90	0.0088	0.0069
Venus	89675-01-22 18:29 G	34474203.13	34474203.27	34474203.46	0.0088	0.0059
Venus	89675-09-05 07:41 G	34474428.65	34474428.82	34474429.02	0.0088	0.0048
Venus	89676-04-17 20:39 G	34474654.17	34474654.36	34474654.57	0.0088	0.0038
Venus	89676-11-29 09:36 G	34474879.70	34474879.90	34474880.12	0.0088	0.0027
Venus	89677-07-12 22:34 G	34475105.23	34475105.44	34475105.66	0.0089	0.0017
Venus	89678-02-23 11:31 G	34475330.76	34475330.98	34475331.20	0.0089	0.0007
Venus	89678-10-07 00:29 G	34475556.30	34475556.52	34475556.74	0.0089	0.0004
Venus	89679-05-20 13:12 G	34475781.84	34475782.05	34475782.28	0.0089	0.0015
Venus	89680-01-01 01:55 G	34476007.38	34476007.58	34476007.80	0.0089	0.0025
Venus	89680-08-13 14:53 G	34476232.92	34476233.12	34476233.33	0.0089	0.0035
Venus	89681-03-27 03:51 G	34476458.47	34476458.66	34476458.85	0.0089	0.0045
Venus	89681-11-07 16:34 G	34476684.04	34476684.19	34476684.38	0.0089	0.0056
Venus	89682-06-21 05:31 G	34476909.60	34476909.73	34476909.89	0.0089	0.0066
Venus	89683-02-01 18:15 G	34477135.17	34477135.26	34477135.39	0.0089	0.0076
Venus	89683-09-15 07:12 G	34477360.77	34477360.80	34477360.87	0.0089	0.0086
Earth	89685-01-17 23:46 G	34477851.44	34477851.49	34477851.58	0.0089	0.0085
Moon	89685-01-18 01:12 G	34477851.53	34477851.55	34477851.58	0.0089	0.0088 *
Moon	89686-01-20 09:51 G	34478218.75	34478218.91	34478219.13	0.0089	0.0063
Earth	89686-01-20 12:29 G	34478218.85	34478219.02	34478219.20	0.0089	0.0066 *
Earth	89687-01-23 00:29 G	34478586.32	34478586.52	34478586.76	0.0089	0.0047
Moon	89687-01-23 03:36 G	34478586.46	34478586.65	34478586.88	0.0089	0.0051 *
Moon	89688-01-25 09:51 G	34478953.66	34478953.91	34478954.16	0.0089	0.0024
Earth	89688-01-25 12:58 G	34478953.81	34478954.04	34478954.30	0.0089	0.0028 *

Earth	89689-01-27 01:27 G	34479321.31	34479321.56	34479321.82	0.0089	0.0008
Moon	89689-01-27 05:03 G	34479321.46	34479321.71	34479321.97	0.0089	0.0013 *
Moon	89690-01-29 10:19 G	34479688.69	34479688.93	34479689.19	0.0089	0.0015
Earth	89690-01-29 13:27 G	34479688.81	34479689.06	34479689.33	0.0089	0.0011 *
Earth	89691-02-01 01:41 G	34480056.33	34480056.57	34480056.82	0.0089	0.0030
Moon	89691-02-01 04:05 G	34480056.42	34480056.67	34480056.93	0.0089	0.0026 *
Moon	89692-02-03 12:29 G	34480423.83	34480424.02	34480424.22	0.0089	0.0053
Earth	89692-02-03 13:55 G	34480423.88	34480424.08	34480424.31	0.0089	0.0049 *
Moon	89693-02-05 01:55 G	34480791.41	34480791.58	34480791.77	0.0089	0.0064
Earth	89693-02-05 02:10 G	34480791.43	34480791.59	34480791.76	0.0089	0.0068 *
Earth	89694-02-07 14:10 G	34481159.06	34481159.09	34481159.15	0.0089	0.0087
Mercury	89716-02-16 13:12 G	34489202.03	34489202.05	34489202.10	0.0090	0.0088
Mercury	89716-05-14 16:48 G	34489290.11	34489290.20	34489290.31	0.0090	0.0077
Mercury	89716-08-10 20:24 G	34489378.23	34489378.35	34489378.48	0.0090	0.0066
Mercury	89716-11-07 00:00 G	34489466.35	34489466.50	34489466.65	0.0090	0.0055
Mercury	89717-02-03 03:07 G	34489554.48	34489554.63	34489554.81	0.0090	0.0045
Mercury	89717-05-02 06:43 G	34489642.61	34489642.78	34489642.96	0.0090	0.0034
Mercury	89717-07-29 10:19 G	34489730.75	34489730.93	34489731.11	0.0090	0.0023
Mercury	89717-10-25 13:41 G	34489818.89	34489819.07	34489819.26	0.0090	0.0012
Mercury	89718-01-21 17:17 G	34489907.03	34489907.22	34489907.40	0.0090	0.0002
Mercury	89718-04-19 20:24 G	34489995.17	34489995.35	34489995.55	0.0090	0.0010
Mercury	89718-07-17 00:00 G	34490083.32	34490083.50	34490083.68	0.0090	0.0020
Mercury	89718-10-13 03:07 G	34490171.47	34490171.63	34490171.82	0.0090	0.0031
Mercury	89719-01-09 06:43 G	34490259.62	34490259.78	34490259.95	0.0090	0.0041
Mercury	89719-04-07 09:51 G	34490347.77	34490347.91	34490348.08	0.0090	0.0052
Mercury	89719-07-04 13:27 G	34490435.93	34490436.06	34490436.20	0.0090	0.0062
Mercury	89719-09-30 16:34 G	34490524.10	34490524.19	34490524.31	0.0090	0.0073
Mercury	89719-12-27 19:55 G	34490612.28	34490612.33	34490612.41	0.0090	0.0083
Mars	89721-03-25 20:53 G	34491066.11	34491066.37	34491066.66	0.0090	0.0028
Mars	89723-02-17 13:12 G	34491760.04	34491760.05	34491760.11	0.0090	0.0089

Venus	89754-09-19 19:12 G	34503297.24	34503297.30	34503297.40	0.0089	0.0082
Venus	89755-05-03 08:10 G	34503522.74	34503522.84	34503522.99	0.0089	0.0072
Venus	89755-12-14 21:36 G	34503748.25	34503748.40	34503748.56	0.0089	0.0061
Venus	89756-07-27 10:34 G	34503973.77	34503973.94	34503974.13	0.0089	0.0051
Venus	89757-03-09 23:31 G	34504199.30	34504199.48	34504199.69	0.0089	0.0041
Venus	89757-10-21 12:43 G	34504424.83	34504425.03	34504425.25	0.0089	0.0030
Venus	89758-06-04 01:55 G	34504650.37	34504650.58	34504650.80	0.0089	0.0020
Venus	89759-01-15 15:07 G	34504875.91	34504876.13	34504876.35	0.0089	0.0009
Venus	89759-08-29 04:19 G	34505101.46	34505101.68	34505101.90	0.0089	0.0002
Venus	89760-04-10 17:17 G	34505327.01	34505327.22	34505327.45	0.0089	0.0012
Venus	89760-11-22 06:15 G	34505552.56	34505552.76	34505552.99	0.0089	0.0023
Venus	89761-07-05 19:27 G	34505778.12	34505778.31	34505778.53	0.0089	0.0033
Venus	89762-02-16 08:53 G	34506003.68	34506003.87	34506004.06	0.0089	0.0043
Venus	89762-09-29 21:36 G	34506229.24	34506229.40	34506229.59	0.0089	0.0054
Venus	89763-05-13 11:03 G	34506454.82	34506454.96	34506455.12	0.0089	0.0064
Venus	89763-12-25 00:29 G	34506680.40	34506680.52	34506680.64	0.0089	0.0074
Venus	89764-08-06 12:58 G	34506906.00	34506906.04	34506906.13	0.0089	0.0085
Earth	89766-07-18 14:39 G	34507616.98	34507617.11	34507617.26	0.0089	0.0074
Moon	89766-07-18 16:34 G	34507617.07	34507617.19	34507617.33	0.0089	0.0075 *
Moon	89767-07-20 22:05 G	34507984.23	34507984.42	34507984.64	0.0089	0.0054
Earth	89767-07-21 01:12 G	34507984.38	34507984.55	34507984.78	0.0089	0.0056 *
Earth	89768-07-22 12:15 G	34508351.79	34508352.01	34508352.26	0.0088	0.0037
Moon	89768-07-22 15:36 G	34508351.94	34508352.15	34508352.40	0.0088	0.0039 *
Moon	89769-07-24 19:55 G	34508719.09	34508719.33	34508719.59	0.0088	0.0018
Earth	89769-07-24 23:46 G	34508719.24	34508719.49	34508719.74	0.0088	0.0018 *
Earth	89770-07-27 10:34 G	34509086.69	34509086.94	34509087.20	0.0088	0.0001
Moon	89770-07-27 13:55 G	34509086.82	34509087.08	34509087.34	0.0088	0.0000 *
Moon	89771-07-29 19:41 G	34509454.08	34509454.32	34509454.56	0.0088	0.0021
Earth	89771-07-29 21:36 G	34509454.15	34509454.40	34509454.65	0.0088	0.0020 *
Earth	89772-07-31 08:39 G	34509821.63	34509821.86	34509822.10	0.0088	0.0039



Moon	89772-07-31 10:05 G	34509821.69	34509821.92	34509822.17	0.0088	0.0038	*
Earth	89773-08-02 19:41 G	34510189.14	34510189.32	34510189.53	0.0088	0.0057	
Moon	89773-08-02 19:41 G	34510189.16	34510189.32	34510189.53	0.0088	0.0059	*
Moon	89774-08-05 05:31 G	34510556.59	34510556.73	34510556.87	0.0088	0.0075	
Earth	89774-08-05 06:29 G	34510556.67	34510556.77	34510556.93	0.0088	0.0077	*
Mercury	89797-05-24 18:00 G	34518885.21	34518885.25	34518885.29	0.0088	0.0083	
Mercury	89797-08-20 19:12 G	34518973.24	34518973.30	34518973.37	0.0088	0.0076	
Mercury	89797-11-16 20:24 G	34519061.28	34519061.35	34519061.45	0.0088	0.0069	
Mercury	89798-02-12 21:51 G	34519149.32	34519149.41	34519149.51	0.0088	0.0062	
Mercury	89798-05-11 23:17 G	34519237.37	34519237.47	34519237.58	0.0088	0.0055	
Mercury	89798-08-08 00:29 G	34519325.42	34519325.52	34519325.65	0.0088	0.0048	
Mercury	89798-11-04 02:10 G	34519413.47	34519413.59	34519413.71	0.0088	0.0040	
Mercury	89799-01-31 03:22 G	34519501.52	34519501.64	34519501.77	0.0088	0.0033	
Mercury	89799-04-29 04:48 G	34519589.57	34519589.70	34519589.83	0.0088	0.0026	
Mercury	89799-07-26 06:15 G	34519677.63	34519677.76	34519677.89	0.0088	0.0019	
Mercury	89799-10-22 07:27 G	34519765.68	34519765.81	34519765.95	0.0088	0.0012	
Mercury	89800-01-18 08:53 G	34519853.74	34519853.87	34519854.01	0.0088	0.0004	
Saturn	89800-01-27 03:22 G	34519861.92	34519862.64	34519863.38	0.0088	0.0005	
Mercury	89800-04-16 10:19 G	34519941.79	34519941.93	34519942.07	0.0088	0.0003	
Mercury	89800-07-13 11:31 G	34520029.85	34520029.98	34520030.12	0.0088	0.0011	
Mercury	89800-10-09 12:58 G	34520117.91	34520118.04	34520118.18	0.0088	0.0018	
Mercury	89801-01-05 14:24 G	34520205.97	34520206.10	34520206.23	0.0088	0.0025	
Mercury	89801-04-03 15:51 G	34520294.03	34520294.16	34520294.29	0.0088	0.0032	
Mercury	89801-06-30 17:03 G	34520382.09	34520382.21	34520382.34	0.0088	0.0040	
Mercury	89801-09-26 18:29 G	34520470.16	34520470.27	34520470.39	0.0088	0.0047	
Mercury	89801-12-23 19:55 G	34520558.22	34520558.33	34520558.44	0.0088	0.0054	
Mercury	89802-03-21 21:07 G	34520646.29	34520646.38	34520646.49	0.0088	0.0062	
Mercury	89802-06-17 22:34 G	34520734.36	34520734.44	34520734.53	0.0088	0.0069	
Mercury	89802-09-14 00:00 G	34520822.44	34520822.50	34520822.57	0.0088	0.0076	
Mercury	89802-12-11 01:12 G	34520910.53	34520910.55	34520910.60	0.0088	0.0084	

Mars	89803-02-04 06:29 G	34520965.51	34520965.77	34520966.08	0.0088	0.0050
Mars	89804-12-31 12:00 G	34521661.93	34521662.00	34521662.16	0.0088	0.0083
Venus	89838-02-01 03:22 G	34533746.58	34533746.64	34533746.74	0.0088	0.0082
Venus	89838-09-14 16:19 G	34533972.08	34533972.18	34533972.33	0.0088	0.0072
Venus	89839-04-28 05:46 G	34534197.59	34534197.74	34534197.91	0.0088	0.0061
Venus	89839-12-09 18:43 G	34534423.11	34534423.28	34534423.47	0.0088	0.0051
Venus	89840-07-22 07:27 G	34534648.63	34534648.81	34534649.02	0.0088	0.0041
Venus	89841-03-04 20:53 G	34534874.16	34534874.37	34534874.57	0.0088	0.0030
Venus	89841-10-16 09:51 G	34535099.70	34535099.91	34535100.13	0.0088	0.0020
Venus	89842-05-29 22:48 G	34535325.23	34535325.45	34535325.67	0.0089	0.0009
Venus	89843-01-10 11:31 G	34535550.77	34535550.98	34535551.21	0.0089	0.0002
Venus	89843-08-24 00:29 G	34535776.30	34535776.52	34535776.74	0.0089	0.0011
Venus	89844-04-05 13:12 G	34536001.84	34536002.05	34536002.27	0.0089	0.0022
Venus	89844-11-17 02:24 G	34536227.39	34536227.60	34536227.80	0.0089	0.0032
Venus	89845-06-30 14:53 G	34536452.94	34536453.12	34536453.33	0.0089	0.0043
Venus	89846-02-11 03:51 G	34536678.49	34536678.66	34536678.85	0.0089	0.0053
Venus	89846-09-24 16:48 G	34536904.05	34536904.20	34536904.36	0.0089	0.0063
Venus	89847-05-08 05:17 G	34537129.62	34537129.72	34537129.87	0.0089	0.0074
Venus	89847-12-19 18:15 G	34537355.21	34537355.26	34537355.35	0.0089	0.0084
Earth	89850-01-21 20:53 G	34538119.23	34538119.37	34538119.54	0.0089	0.0071
Moon	89850-01-21 23:46 G	34538119.35	34538119.49	34538119.68	0.0089	0.0068 *
Moon	89851-01-24 05:46 G	34538486.55	34538486.74	34538486.95	0.0089	0.0056
Earth	89851-01-24 09:22 G	34538486.70	34538486.89	34538487.12	0.0089	0.0052 *
Earth	89852-01-26 21:51 G	34538854.19	34538854.41	34538854.67	0.0089	0.0033
Moon	89852-01-27 01:27 G	34538854.32	34538854.56	34538854.81	0.0089	0.0029 *
Moon	89853-01-28 07:12 G	34539221.57	34539221.80	34539222.06	0.0089	0.0017
Earth	89853-01-28 10:34 G	34539221.68	34539221.94	34539222.20	0.0089	0.0013 *
Earth	89854-01-30 22:48 G	34539589.19	34539589.45	34539589.71	0.0089	0.0006
Moon	89854-01-31 00:43 G	34539589.27	34539589.53	34539589.80	0.0089	0.0009 *
Moon	89855-02-02 10:19 G	34539956.70	34539956.93	34539957.18	0.0089	0.0022

Earth	89855-02-02 10:48 G	34539956.71	34539956.95	34539957.21	0.0089	0.0025	*
Moon	89856-02-04 22:34 G	34540324.24	34540324.44	34540324.69	0.0089	0.0047	
Earth	89856-02-04 23:03 G	34540324.25	34540324.46	34540324.69	0.0089	0.0044	*
Earth	89857-02-06 11:03 G	34540691.79	34540691.96	34540692.16	0.0089	0.0064	
Moon	89857-02-06 12:58 G	34540691.86	34540692.04	34540692.23	0.0089	0.0060	*
Moon	89858-02-08 20:24 G	34541059.29	34541059.35	34541059.44	0.0089	0.0086	
Earth	89858-02-08 23:03 G	34541059.38	34541059.46	34541059.58	0.0089	0.0083	*
Mercury	89880-11-13 12:00 G	34549372.94	34549373.00	34549373.09	0.0090	0.0082	
Mercury	89881-02-09 15:36 G	34549461.05	34549461.15	34549461.27	0.0090	0.0071	
Mercury	89881-05-08 19:12 G	34549549.16	34549549.30	34549549.44	0.0090	0.0060	
Mercury	89881-08-04 22:19 G	34549637.29	34549637.43	34549637.61	0.0090	0.0050	
Mercury	89881-11-01 01:55 G	34549725.42	34549725.58	34549725.77	0.0090	0.0039	
Mercury	89882-01-28 05:31 G	34549813.56	34549813.73	34549813.92	0.0090	0.0028	
Mercury	89882-04-26 09:07 G	34549901.70	34549901.88	34549902.07	0.0090	0.0017	
Mercury	89882-07-23 12:29 G	34549989.84	34549990.02	34549990.21	0.0090	0.0007	
Mercury	89882-10-19 16:05 G	34550077.98	34550078.17	34550078.36	0.0090	0.0005	
Mercury	89883-01-15 19:27 G	34550166.12	34550166.31	34550166.50	0.0090	0.0015	
Mercury	89883-04-13 22:34 G	34550254.27	34550254.44	34550254.63	0.0090	0.0026	
Mercury	89883-07-11 02:10 G	34550342.42	34550342.59	34550342.76	0.0090	0.0036	
Mercury	89883-10-07 05:17 G	34550430.57	34550430.72	34550430.89	0.0090	0.0047	
Mercury	89884-01-03 08:39 G	34550518.73	34550518.86	34550519.02	0.0090	0.0058	
Mercury	89884-03-31 12:00 G	34550606.89	34550607.00	34550607.14	0.0090	0.0068	
Mercury	89884-06-27 15:36 G	34550695.07	34550695.15	34550695.24	0.0090	0.0078	
Mercury	89884-09-23 18:43 G	34550783.27	34550783.28	34550783.32	0.0090	0.0089	
Mars	89884-11-09 12:00 G	34550829.86	34550830.00	34550830.21	0.0090	0.0072	
Mars	89886-10-04 02:53 G	34551523.39	34551523.62	34551523.89	0.0090	0.0045	
Venus	89918-12-24 06:00 G	34563291.71	34563291.75	34563291.84	0.0089	0.0085	
Venus	89919-08-06 18:58 G	34563517.20	34563517.29	34563517.43	0.0089	0.0075	
Venus	89920-03-19 08:24 G	34563742.71	34563742.85	34563743.01	0.0089	0.0064	
Venus	89920-10-30 21:22 G	34563968.23	34563968.39	34563968.58	0.0089	0.0054	

Venus	89921-06-13 10:48 G	34564193.76	34564193.95	34564194.14	0.0089	0.0043
Venus	89922-01-24 23:31 G	34564419.28	34564419.48	34564419.69	0.0089	0.0033
Venus	89922-09-07 12:29 G	34564644.82	34564645.02	34564645.24	0.0089	0.0023
Venus	89923-04-21 01:55 G	34564870.36	34564870.58	34564870.80	0.0089	0.0012
Venus	89923-12-02 14:53 G	34565095.90	34565096.12	34565096.34	0.0089	0.0002
Venus	89924-07-15 03:51 G	34565321.45	34565321.66	34565321.88	0.0089	0.0009
Venus	89925-02-25 16:48 G	34565546.99	34565547.20	34565547.42	0.0089	0.0020
Venus	89925-10-09 06:00 G	34565772.55	34565772.75	34565772.96	0.0089	0.0030
Venus	89926-05-22 18:58 G	34565998.11	34565998.29	34565998.50	0.0089	0.0041
Venus	89927-01-03 08:10 G	34566223.68	34566223.84	34566224.04	0.0089	0.0051
Venus	89927-08-16 21:36 G	34566449.24	34566449.40	34566449.56	0.0089	0.0061
Venus	89928-03-29 10:19 G	34566674.82	34566674.93	34566675.08	0.0089	0.0072
Venus	89928-11-09 23:31 G	34566900.42	34566900.48	34566900.58	0.0089	0.0082
Moon	89930-07-19 20:53 G	34567517.26	34567517.37	34567517.54	0.0089	0.0075
Earth	89930-07-20 00:15 G	34567517.42	34567517.51	34567517.65	0.0089	0.0079 *
Earth	89931-07-22 11:17 G	34567884.79	34567884.97	34567885.17	0.0089	0.0060
Moon	89931-07-22 14:53 G	34567884.96	34567885.12	34567885.31	0.0089	0.0065 *
Moon	89932-07-23 18:58 G	34568252.08	34568252.29	34568252.54	0.0089	0.0038
Earth	89932-07-23 22:05 G	34568252.21	34568252.42	34568252.67	0.0089	0.0042 *
Earth	89933-07-26 09:22 G	34568619.65	34568619.89	34568620.14	0.0088	0.0023
Moon	89933-07-26 12:00 G	34568619.77	34568620.00	34568620.27	0.0088	0.0028 *
Moon	89934-07-28 18:29 G	34568987.02	34568987.27	34568987.52	0.0088	0.0001
Earth	89934-07-28 20:10 G	34568987.09	34568987.34	34568987.60	0.0088	0.0005 *
Earth	89935-07-31 07:12 G	34569354.55	34569354.80	34569355.06	0.0088	0.0015
Moon	89935-07-31 07:27 G	34569354.55	34569354.81	34569355.08	0.0088	0.0011 *
Earth	89936-08-01 18:00 G	34569722.02	34569722.25	34569722.50	0.0088	0.0034
Moon	89936-08-01 18:29 G	34569722.05	34569722.27	34569722.50	0.0088	0.0038 *
Moon	89937-08-04 03:07 G	34570089.42	34570089.63	34570089.87	0.0088	0.0048
Earth	89937-08-04 04:48 G	34570089.52	34570089.70	34570089.93	0.0088	0.0053 *
Earth	89938-08-06 16:19 G	34570457.03	34570457.18	34570457.34	0.0088	0.0071

Moon	89938-08-06 18:43 G	34570457.18	34570457.28	34570457.44	0.0088	0.0076 *
Moon	89939-08-09 00:15 G	34570824.45	34570824.51	34570824.59	0.0088	0.0085
Mercury	89961-11-24 16:05 G	34578968.17	34578968.17	34578968.21	0.0088	0.0087
Mercury	89962-02-20 17:46 G	34579056.19	34579056.24	34579056.30	0.0088	0.0079
Mercury	89962-05-19 19:12 G	34579144.22	34579144.30	34579144.37	0.0088	0.0072
Mercury	89962-08-15 20:24 G	34579232.26	34579232.35	34579232.44	0.0088	0.0065
Mercury	89962-11-11 21:51 G	34579320.31	34579320.41	34579320.51	0.0088	0.0058
Mercury	89963-02-07 23:03 G	34579408.36	34579408.46	34579408.57	0.0088	0.0051
Mercury	89963-05-07 00:15 G	34579496.40	34579496.51	34579496.64	0.0088	0.0044
Mercury	89963-08-03 01:41 G	34579584.45	34579584.57	34579584.70	0.0088	0.0037
Mercury	89963-10-30 03:07 G	34579672.51	34579672.63	34579672.76	0.0088	0.0029
Mercury	89964-01-26 04:19 G	34579760.56	34579760.68	34579760.82	0.0088	0.0023
Mercury	89964-04-23 05:46 G	34579848.61	34579848.74	34579848.88	0.0088	0.0015
Mercury	89964-07-20 07:12 G	34579936.67	34579936.80	34579936.94	0.0088	0.0008
Mercury	89964-10-16 08:39 G	34580024.72	34580024.86	34580025.00	0.0088	0.0001
Mercury	89965-01-12 10:05 G	34580112.78	34580112.92	34580113.05	0.0088	0.0007
Mercury	89965-04-10 11:17 G	34580200.84	34580200.97	34580201.11	0.0088	0.0014
Mercury	89965-07-07 12:43 G	34580288.90	34580289.03	34580289.16	0.0088	0.0021
Mercury	89965-10-03 13:55 G	34580376.96	34580377.08	34580377.22	0.0088	0.0029
Mercury	89965-12-30 15:22 G	34580465.02	34580465.14	34580465.27	0.0088	0.0036
Mercury	89966-03-28 16:48 G	34580553.08	34580553.20	34580553.32	0.0088	0.0043
Mercury	89966-06-24 18:00 G	34580641.15	34580641.25	34580641.37	0.0088	0.0051
Mercury	89966-09-20 19:27 G	34580729.22	34580729.31	34580729.42	0.0088	0.0058
Mercury	89966-12-17 20:53 G	34580817.28	34580817.37	34580817.47	0.0088	0.0065
Mercury	89967-03-15 22:19 G	34580905.36	34580905.43	34580905.51	0.0088	0.0072
Mercury	89967-06-11 23:31 G	34580993.44	34580993.48	34580993.55	0.0088	0.0080
Mercury	89967-09-08 00:58 G	34581081.54	34581081.54	34581081.57	0.0088	0.0087
Mars	89968-08-15 00:15 G	34581423.20	34581423.51	34581423.85	0.0088	0.0033

# 91ST MILLENNIUM CE

**This is a list of transits visible from Neptune in the 91st millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	90002-05-06 14:10	G	34593741.05	34593741.09	34593741.18	0.0088	0.0085	
Venus	90002-12-18 03:07	G	34593966.54	34593966.63	34593966.78	0.0088	0.0075	
Venus	90003-07-31 16:34	G	34594192.05	34594192.19	34594192.35	0.0088	0.0064	
Venus	90004-03-13 05:31	G	34594417.56	34594417.73	34594417.91	0.0088	0.0054	
Venus	90004-10-24 18:29	G	34594643.10	34594643.27	34594643.48	0.0088	0.0044	
Venus	90005-06-07 07:55	G	34594868.62	34594868.83	34594869.03	0.0088	0.0033	
Venus	90006-01-18 20:39	G	34595094.15	34595094.36	34595094.58	0.0088	0.0023	
Venus	90006-09-01 09:36	G	34595319.69	34595319.90	34595320.12	0.0089	0.0012	
Venus	90007-04-14 22:34	G	34595545.23	34595545.44	34595545.67	0.0089	0.0003	
Venus	90007-11-26 11:46	G	34595770.77	34595770.99	34595771.21	0.0089	0.0009	
Venus	90008-07-09 00:15	G	34595996.31	34595996.51	34595996.74	0.0089	0.0020	
Venus	90009-02-19 13:12	G	34596221.85	34596222.05	34596222.27	0.0089	0.0030	
Venus	90009-10-03 02:10	G	34596447.41	34596447.59	34596447.80	0.0089	0.0040	
Venus	90010-05-16 15:07	G	34596672.96	34596673.13	34596673.32	0.0089	0.0050	
Venus	90010-12-28 03:36	G	34596898.51	34596898.65	34596898.83	0.0089	0.0061	
Venus	90011-08-10 16:34	G	34597124.08	34597124.19	34597124.34	0.0089	0.0071	
Venus	90012-03-23 05:31	G	34597349.66	34597349.73	34597349.83	0.0089	0.0081	
Moon	90014-01-22 01:55	G	34598019.50	34598019.58	34598019.73	0.0089	0.0079	
Earth	90014-01-22 05:46	G	34598019.63	34598019.74	34598019.89	0.0089	0.0076	*

Earth	90015-01-24 18:15 G	34598387.08	34598387.26	34598387.48	0.0089	0.0057
Moon	90015-01-24 21:36 G	34598387.21	34598387.40	34598387.63	0.0089	0.0054 *
Moon	90016-01-27 04:48 G	34598754.48	34598754.70	34598754.93	0.0089	0.0040
Earth	90016-01-27 06:43 G	34598754.56	34598754.78	34598755.03	0.0089	0.0038 *
Earth	90017-01-28 19:12 G	34599122.06	34599122.30	34599122.57	0.0089	0.0019
Moon	90017-01-28 20:53 G	34599122.12	34599122.37	34599122.65	0.0089	0.0016 *
Moon	90018-01-31 07:41 G	34599489.57	34599489.82	34599490.08	0.0089	0.0003
Earth	90018-01-31 07:55 G	34599489.58	34599489.83	34599490.09	0.0089	0.0002 *
Moon	90019-02-02 18:43 G	34599857.04	34599857.28	34599857.56	0.0089	0.0023
Earth	90019-02-02 20:24 G	34599857.10	34599857.35	34599857.61	0.0089	0.0020 *
Earth	90020-02-05 08:39 G	34600224.64	34600224.86	34600225.10	0.0089	0.0039
Moon	90020-02-05 10:34 G	34600224.72	34600224.94	34600225.17	0.0089	0.0036 *
Moon	90021-02-06 17:17 G	34600592.05	34600592.22	34600592.43	0.0089	0.0062
Earth	90021-02-06 20:53 G	34600592.18	34600592.37	34600592.57	0.0089	0.0058 *
Earth	90022-02-09 09:07 G	34600959.76	34600959.88	34600960.01	0.0089	0.0077
Moon	90022-02-09 12:29 G	34600959.89	34600960.02	34600960.17	0.0089	0.0075 *
Mercury	90045-05-15 07:12 G	34609455.77	34609455.80	34609455.86	0.0090	0.0087
Mercury	90045-08-11 11:03 G	34609543.86	34609543.96	34609544.06	0.0090	0.0076
Mercury	90045-11-07 14:10 G	34609631.98	34609632.09	34609632.24	0.0090	0.0066
Mercury	90046-02-03 17:46 G	34609720.10	34609720.24	34609720.40	0.0090	0.0055
Mercury	90046-05-02 21:22 G	34609808.23	34609808.39	34609808.56	0.0090	0.0044
Mercury	90046-07-30 00:58 G	34609896.37	34609896.54	34609896.72	0.0090	0.0033
Mercury	90046-10-26 04:34 G	34609984.50	34609984.69	34609984.87	0.0090	0.0022
Mercury	90047-01-22 07:55 G	34610072.64	34610072.83	34610073.02	0.0090	0.0011
Mercury	90047-04-20 11:17 G	34610160.79	34610160.97	34610161.16	0.0090	0.0002
Mercury	90047-07-17 14:53 G	34610248.93	34610249.12	34610249.31	0.0090	0.0010
Mercury	90047-10-13 18:15 G	34610337.08	34610337.26	34610337.44	0.0090	0.0021
Mercury	90048-01-09 21:22 G	34610425.23	34610425.39	34610425.58	0.0090	0.0032
Mercury	90048-04-07 00:58 G	34610513.38	34610513.54	34610513.71	0.0090	0.0042
Mercury	90048-07-04 04:05 G	34610601.53	34610601.67	34610601.84	0.0090	0.0053

Mercury	90048-09-30 07:41 G	34610689.69	34610689.82	34610689.96	0.0090	0.0063
Mercury	90048-12-27 10:48 G	34610777.86	34610777.95	34610778.07	0.0090	0.0074
Mercury	90049-03-25 14:24 G	34610866.04	34610866.10	34610866.17	0.0090	0.0084
Mars	90050-05-20 19:27 G	34611287.02	34611287.31	34611287.60	0.0090	0.0001
Venus	90083-03-27 16:48 G	34623286.20	34623286.20	34623286.27	0.0089	0.0088
Venus	90083-11-08 06:29 G	34623511.67	34623511.77	34623511.88	0.0089	0.0077
Venus	90084-06-20 19:12 G	34623737.17	34623737.30	34623737.46	0.0089	0.0067
Venus	90085-02-01 08:10 G	34623962.69	34623962.84	34623963.03	0.0089	0.0057
Venus	90085-09-14 21:22 G	34624188.21	34624188.39	34624188.59	0.0089	0.0046
Venus	90086-04-28 10:34 G	34624413.75	34624413.94	34624414.15	0.0089	0.0036
Venus	90086-12-09 23:46 G	34624639.28	34624639.49	34624639.70	0.0089	0.0025
Venus	90087-07-23 12:43 G	34624864.81	34624865.03	34624865.25	0.0089	0.0015
Venus	90088-03-05 01:41 G	34625090.35	34625090.57	34625090.79	0.0089	0.0005
Venus	90088-10-16 14:53 G	34625315.90	34625316.12	34625316.34	0.0089	0.0006
Venus	90089-05-30 03:51 G	34625541.45	34625541.66	34625541.88	0.0089	0.0017
Venus	90090-01-10 17:03 G	34625767.00	34625767.21	34625767.42	0.0089	0.0027
Venus	90090-08-24 05:46 G	34625992.56	34625992.74	34625992.95	0.0089	0.0038
Venus	90091-04-06 19:12 G	34626218.12	34626218.30	34626218.49	0.0089	0.0048
Venus	90091-11-18 07:55 G	34626443.69	34626443.83	34626444.02	0.0089	0.0059
Venus	90092-06-30 21:22 G	34626669.26	34626669.39	34626669.54	0.0089	0.0069
Venus	90093-02-11 10:48 G	34626894.85	34626894.95	34626895.04	0.0089	0.0079
Earth	90094-07-19 11:03 G	34627417.88	34627417.96	34627418.05	0.0089	0.0083
Moon	90094-07-19 14:10 G	34627418.00	34627418.09	34627418.21	0.0089	0.0081 *
Moon	90095-07-21 18:29 G	34627785.12	34627785.27	34627785.45	0.0089	0.0067
Earth	90095-07-21 21:51 G	34627785.25	34627785.41	34627785.60	0.0089	0.0065 *
Earth	90096-07-23 09:07 G	34628152.66	34628152.88	34628153.10	0.0089	0.0046
Moon	90096-07-23 11:03 G	34628152.75	34628152.96	34628153.21	0.0089	0.0044 *
Moon	90097-07-25 18:43 G	34628520.05	34628520.28	34628520.52	0.0088	0.0029
Earth	90097-07-25 19:41 G	34628520.09	34628520.32	34628520.58	0.0088	0.0028 *
Earth	90098-07-28 06:58 G	34628887.54	34628887.79	34628888.05	0.0088	0.0009



Moon	90098-07-28 07:27 G	34628887.54	34628887.81	34628888.08	0.0088	0.0007 *
Earth	90099-07-30 17:46 G	34629254.99	34629255.24	34629255.50	0.0088	0.0011
Moon	90099-07-30 19:12 G	34629255.06	34629255.30	34629255.55	0.0088	0.0008 *
Moon	90100-08-02 02:39 G	34629622.37	34629622.61	34629622.86	0.0088	0.0031
Earth	90100-08-02 04:48 G	34629622.46	34629622.70	34629622.95	0.0088	0.0029 *
Earth	90101-08-04 15:22 G	34629989.94	34629990.14	34629990.38	0.0088	0.0048
Moon	90101-08-04 18:15 G	34629990.07	34629990.26	34629990.50	0.0088	0.0047 *
Moon	90102-08-06 22:48 G	34630357.30	34630357.45	34630357.63	0.0088	0.0069
Earth	90102-08-07 02:10 G	34630357.45	34630357.59	34630357.79	0.0088	0.0066 *
Earth	90103-08-09 13:27 G	34630725.00	34630725.06	34630725.15	0.0088	0.0085
Moon	90103-08-09 16:34 G	34630725.13	34630725.19	34630725.30	0.0088	0.0084 *
Mercury	90126-08-22 16:05 G	34639139.14	34639139.17	34639139.22	0.0088	0.0083
Mercury	90126-11-18 17:17 G	34639227.17	34639227.22	34639227.30	0.0088	0.0076
Mercury	90127-02-14 18:43 G	34639315.21	34639315.28	34639315.37	0.0088	0.0069
Mercury	90127-05-13 20:24 G	34639403.25	34639403.35	34639403.44	0.0088	0.0061
Mercury	90127-08-09 21:36 G	34639491.30	34639491.40	34639491.51	0.0088	0.0054
Mercury	90127-11-05 22:48 G	34639579.34	34639579.45	34639579.57	0.0088	0.0047
Mercury	90128-02-02 00:15 G	34639667.39	34639667.51	34639667.63	0.0088	0.0040
Mercury	90128-04-30 01:41 G	34639755.44	34639755.57	34639755.69	0.0088	0.0033
Mercury	90128-07-27 02:53 G	34639843.50	34639843.62	34639843.75	0.0088	0.0026
Mercury	90128-10-23 04:19 G	34639931.55	34639931.68	34639931.81	0.0088	0.0018
Mercury	90129-01-19 05:46 G	34640019.60	34640019.74	34640019.87	0.0088	0.0011
Mercury	90129-04-17 06:58 G	34640107.66	34640107.79	34640107.93	0.0088	0.0005
Mercury	90129-07-14 08:24 G	34640195.72	34640195.85	34640195.99	0.0088	0.0003
Mercury	90129-10-10 09:51 G	34640283.77	34640283.91	34640284.04	0.0088	0.0011
Mercury	90130-01-06 11:03 G	34640371.83	34640371.96	34640372.10	0.0088	0.0018
Mercury	90130-04-04 12:29 G	34640459.89	34640460.02	34640460.15	0.0088	0.0025
Mercury	90130-07-01 13:41 G	34640547.95	34640548.07	34640548.20	0.0088	0.0033
Mercury	90130-09-27 15:07 G	34640636.01	34640636.13	34640636.26	0.0088	0.0040
Mercury	90130-12-24 16:34 G	34640724.08	34640724.19	34640724.31	0.0088	0.0047

Mercury	90131-03-22 18:00 G	34640812.14	34640812.25	34640812.36	0.0088	0.0054
Mercury	90131-06-18 19:12 G	34640900.21	34640900.30	34640900.41	0.0088	0.0062
Mercury	90131-09-14 20:39 G	34640988.28	34640988.36	34640988.45	0.0088	0.0069
Mercury	90131-12-11 22:05 G	34641076.36	34641076.42	34641076.49	0.0088	0.0076
Mercury	90132-03-08 23:17 G	34641164.44	34641164.47	34641164.52	0.0088	0.0084
Mars	90132-03-29 12:29 G	34641184.68	34641185.02	34641185.37	0.0088	0.0016
Venus	90166-08-09 01:12 G	34653735.55	34653735.55	34653735.62	0.0088	0.0088
Venus	90167-03-22 14:53 G	34653961.02	34653961.12	34653961.23	0.0088	0.0077
Venus	90167-11-03 03:51 G	34654186.53	34654186.66	34654186.82	0.0088	0.0067
Venus	90168-06-15 16:48 G	34654412.05	34654412.20	34654412.38	0.0088	0.0056
Venus	90169-01-27 06:00 G	34654637.57	34654637.75	34654637.94	0.0088	0.0046
Venus	90169-09-09 18:58 G	34654863.10	34654863.29	34654863.50	0.0088	0.0036
Venus	90170-04-23 07:55 G	34655088.63	34655088.83	34655089.05	0.0088	0.0025
Venus	90170-12-04 21:07 G	34655314.17	34655314.38	34655314.60	0.0088	0.0015
Venus	90171-07-18 10:05 G	34655539.70	34655539.92	34655540.14	0.0089	0.0004
Venus	90172-02-28 23:03 G	34655765.24	34655765.46	34655765.68	0.0089	0.0006
Venus	90172-10-11 12:00 G	34655990.79	34655991.00	34655991.22	0.0089	0.0017
Venus	90173-05-25 00:58 G	34656216.34	34656216.54	34656216.76	0.0089	0.0027
Venus	90174-01-05 13:41 G	34656441.88	34656442.07	34656442.28	0.0089	0.0038
Venus	90174-08-19 02:24 G	34656667.43	34656667.60	34656667.80	0.0089	0.0048
Venus	90175-04-01 15:22 G	34656892.99	34656893.14	34656893.32	0.0089	0.0058
Venus	90175-11-13 04:48 G	34657118.56	34657118.70	34657118.84	0.0089	0.0068
Venus	90176-06-25 17:03 G	34657344.13	34657344.21	34657344.33	0.0089	0.0079
Venus	90177-02-06 06:15 G	34657569.76	34657569.76	34657569.77	0.0089	0.0089
Earth	90178-01-22 14:53 G	34657920.04	34657920.12	34657920.26	0.0089	0.0081
Moon	90178-01-22 18:29 G	34657920.19	34657920.27	34657920.35	0.0089	0.0084 *
Moon	90179-01-25 01:12 G	34658287.39	34658287.55	34658287.77	0.0089	0.0058
Earth	90179-01-25 03:22 G	34658287.48	34658287.64	34658287.85	0.0089	0.0062 *
Earth	90180-01-27 15:51 G	34658654.96	34658655.16	34658655.41	0.0089	0.0043
Moon	90180-01-27 16:34 G	34658654.98	34658655.19	34658655.43	0.0089	0.0047 *

Earth	90181-01-29 04:48 G	34659022.45	34659022.70	34659022.95	0.0089	0.0023
Moon	90181-01-29 04:48 G	34659022.47	34659022.70	34659022.96	0.0089	0.0020 *
Moon	90182-01-31 15:51 G	34659389.89	34659390.16	34659390.43	0.0089	0.0008
Earth	90182-01-31 17:17 G	34659389.96	34659390.22	34659390.48	0.0089	0.0004 *
Jupiter	90182-12-18 01:27 G	34659710.29	34659710.56	34659710.84	0.0089	0.0077
Earth	90183-02-03 05:31 G	34659757.48	34659757.73	34659757.99	0.0089	0.0015
Moon	90183-02-03 08:10 G	34659757.61	34659757.84	34659758.10	0.0089	0.0020 *
Moon	90184-02-05 14:53 G	34660124.87	34660125.12	34660125.37	0.0089	0.0030
Earth	90184-02-05 18:00 G	34660125.01	34660125.25	34660125.49	0.0089	0.0034 *
Earth	90185-02-07 06:15 G	34660492.56	34660492.76	34660492.97	0.0089	0.0053
Moon	90185-02-07 09:51 G	34660492.73	34660492.91	34660493.12	0.0089	0.0057 *
Moon	90186-02-09 15:07 G	34660859.98	34660860.13	34660860.31	0.0089	0.0069
Earth	90186-02-09 18:58 G	34660860.14	34660860.29	34660860.43	0.0089	0.0073 *
Mercury	90210-02-11 06:15 G	34669626.69	34669626.76	34669626.85	0.0090	0.0081
Mercury	90210-05-10 09:51 G	34669714.80	34669714.91	34669715.03	0.0090	0.0070
Mercury	90210-08-06 13:27 G	34669802.92	34669803.06	34669803.20	0.0090	0.0059
Mercury	90210-11-02 16:34 G	34669891.05	34669891.19	34669891.37	0.0090	0.0049
Mercury	90211-01-29 20:10 G	34669979.18	34669979.34	34669979.53	0.0090	0.0038
Mercury	90211-04-27 23:46 G	34670067.32	34670067.49	34670067.68	0.0090	0.0027
Mercury	90211-07-25 03:22 G	34670155.46	34670155.64	34670155.83	0.0090	0.0016
Mercury	90211-10-21 06:58 G	34670243.60	34670243.79	34670243.98	0.0090	0.0005
Mercury	90212-01-17 10:19 G	34670331.74	34670331.93	34670332.12	0.0090	0.0006
Mercury	90212-04-14 13:41 G	34670419.89	34670420.07	34670420.26	0.0090	0.0017
Mercury	90212-07-11 17:17 G	34670508.04	34670508.22	34670508.40	0.0090	0.0027
Mercury	90212-10-07 20:24 G	34670596.19	34670596.35	34670596.53	0.0090	0.0038
Mercury	90213-01-04 00:00 G	34670684.35	34670684.50	34670684.66	0.0090	0.0048
Mercury	90213-04-02 03:07 G	34670772.50	34670772.63	34670772.79	0.0090	0.0059
Mercury	90213-06-29 06:58 G	34670860.67	34670860.79	34670860.90	0.0090	0.0069
Mercury	90213-09-25 09:51 G	34670948.84	34670948.91	34670949.01	0.0090	0.0080
Mars	90214-01-05 11:17 G	34671050.74	34671050.97	34671051.24	0.0090	0.0042

Mars	90215-11-30 02:24 G	34671744.46	34671744.60	34671744.79	0.0090	0.0073
Venus	90248-02-11 17:17 G	34683506.15	34683506.22	34683506.33	0.0089	0.0080
Venus	90248-09-24 06:15 G	34683731.65	34683731.76	34683731.92	0.0089	0.0070
Venus	90249-05-07 19:41 G	34683957.17	34683957.32	34683957.49	0.0089	0.0059
Venus	90249-12-19 08:39 G	34684182.69	34684182.86	34684183.05	0.0089	0.0049
Venus	90250-08-01 21:36 G	34684408.21	34684408.40	34684408.61	0.0089	0.0039
Venus	90251-03-15 10:48 G	34684633.75	34684633.95	34684634.16	0.0089	0.0028
Venus	90251-10-26 23:46 G	34684859.28	34684859.49	34684859.72	0.0089	0.0018
Venus	90252-06-08 12:58 G	34685084.82	34685085.04	34685085.26	0.0089	0.0007
Venus	90253-01-20 01:55 G	34685310.36	34685310.58	34685310.80	0.0089	0.0004
Venus	90253-09-02 14:53 G	34685535.91	34685536.12	34685536.34	0.0089	0.0014
Venus	90254-04-16 03:51 G	34685761.46	34685761.66	34685761.89	0.0089	0.0025
Venus	90254-11-27 17:03 G	34685987.02	34685987.21	34685987.42	0.0089	0.0035
Venus	90255-07-11 05:46 G	34686212.57	34686212.74	34686212.95	0.0089	0.0046
Venus	90256-02-21 18:58 G	34686438.13	34686438.29	34686438.47	0.0089	0.0056
Venus	90256-10-04 08:24 G	34686663.70	34686663.85	34686663.99	0.0089	0.0066
Venus	90257-05-17 21:07 G	34686889.29	34686889.38	34686889.51	0.0089	0.0077
Venus	90257-12-29 10:19 G	34687114.91	34687114.93	34687114.99	0.0089	0.0087
Earth	90258-07-20 20:53 G	34687318.36	34687318.37	34687318.43	0.0089	0.0088
Earth	90259-07-23 08:24 G	34687685.70	34687685.85	34687686.01	0.0089	0.0069
Moon	90259-07-23 10:34 G	34687685.78	34687685.94	34687686.13	0.0089	0.0065 *
Moon	90260-07-24 18:15 G	34688053.09	34688053.26	34688053.48	0.0089	0.0055
Earth	90260-07-24 19:12 G	34688053.11	34688053.30	34688053.53	0.0089	0.0051 *
Moon	90261-07-27 05:46 G	34688420.50	34688420.74	34688421.01	0.0088	0.0029
Earth	90261-07-27 06:29 G	34688420.54	34688420.77	34688421.01	0.0088	0.0032 *
Earth	90262-07-29 17:31 G	34688787.98	34688788.23	34688788.48	0.0088	0.0013
Moon	90262-07-29 18:29 G	34688788.04	34688788.27	34688788.53	0.0088	0.0018 *
Moon	90263-08-01 01:41 G	34689155.31	34689155.57	34689155.83	0.0088	0.0010
Earth	90263-08-01 04:34 G	34689155.43	34689155.69	34689155.95	0.0088	0.0006 *
Earth	90264-08-02 15:22 G	34689522.90	34689523.14	34689523.39	0.0088	0.0024

Moon	90264-08-02 18:43 G	34689523.03	34689523.28	34689523.53	0.0088	0.0021	*
Moon	90265-08-04 22:19 G	34689890.23	34689890.43	34689890.67	0.0088	0.0048	
Earth	90265-08-05 02:24 G	34689890.38	34689890.60	34689890.83	0.0088	0.0043	*
Earth	90266-08-07 12:58 G	34690257.87	34690258.04	34690258.24	0.0088	0.0062	
Moon	90266-08-07 16:19 G	34690258.01	34690258.18	34690258.40	0.0088	0.0058	*
Moon	90267-08-09 21:51 G	34690625.34	34690625.41	34690625.49	0.0088	0.0084	
Earth	90267-08-10 00:15 G	34690625.41	34690625.51	34690625.63	0.0088	0.0080	*
Mercury	90291-02-21 14:39 G	34699222.09	34699222.11	34699222.15	0.0088	0.0086	
Mercury	90291-05-20 15:51 G	34699310.12	34699310.16	34699310.23	0.0088	0.0079	
Mercury	90291-08-16 17:17 G	34699398.15	34699398.22	34699398.31	0.0088	0.0072	
Mercury	90291-11-12 18:29 G	34699486.20	34699486.27	34699486.38	0.0088	0.0065	
Mercury	90292-02-08 20:10 G	34699574.24	34699574.34	34699574.44	0.0088	0.0057	
Mercury	90292-05-06 21:36 G	34699662.29	34699662.40	34699662.51	0.0088	0.0050	
Mercury	90292-08-02 22:48 G	34699750.34	34699750.45	34699750.57	0.0088	0.0043	
Mercury	90292-10-30 00:00 G	34699838.38	34699838.50	34699838.63	0.0088	0.0036	
Mercury	90293-01-26 01:27 G	34699926.44	34699926.56	34699926.69	0.0088	0.0029	
Mercury	90293-04-24 02:53 G	34700014.49	34700014.62	34700014.75	0.0088	0.0022	
Mercury	90293-07-21 04:05 G	34700102.54	34700102.67	34700102.81	0.0088	0.0015	
Mercury	90293-10-17 05:31 G	34700190.60	34700190.73	34700190.87	0.0088	0.0007	
Mercury	90294-01-13 06:58 G	34700278.65	34700278.79	34700278.92	0.0088	0.0002	
Mercury	90294-04-11 08:10 G	34700366.71	34700366.84	34700366.98	0.0088	0.0007	
Mercury	90294-07-08 09:36 G	34700454.77	34700454.90	34700455.03	0.0088	0.0014	
Mercury	90294-10-04 10:48 G	34700542.82	34700542.95	34700543.09	0.0088	0.0022	
Mercury	90294-12-31 12:15 G	34700630.88	34700631.01	34700631.14	0.0088	0.0029	
Mercury	90295-03-29 13:41 G	34700718.94	34700719.07	34700719.19	0.0088	0.0036	
Mercury	90295-06-25 14:53 G	34700807.01	34700807.12	34700807.24	0.0088	0.0044	
Mercury	90295-09-21 16:19 G	34700895.07	34700895.18	34700895.29	0.0088	0.0051	
Mars	90295-11-11 23:17 G	34700946.26	34700946.47	34700946.72	0.0088	0.0065	
Mercury	90295-12-18 17:46 G	34700983.14	34700983.24	34700983.34	0.0088	0.0058	
Mercury	90296-03-15 18:58 G	34701071.21	34701071.29	34701071.39	0.0088	0.0065	

Mercury	90296-06-11 20:24 G	34701159.28	34701159.35	34701159.43	0.0088	0.0073
Mercury	90296-09-07 21:51 G	34701247.36	34701247.41	34701247.47	0.0088	0.0080
Mercury	90296-12-04 23:03 G	34701335.46	34701335.46	34701335.48	0.0088	0.0088
Mars	90297-10-08 07:55 G	34701642.61	34701642.83	34701643.05	0.0088	0.0067
Venus	90331-06-26 01:55 G	34713955.50	34713955.58	34713955.69	0.0088	0.0080
Venus	90332-02-06 14:53 G	34714181.00	34714181.12	34714181.27	0.0088	0.0070
Venus	90332-09-19 04:19 G	34714406.52	34714406.68	34714406.85	0.0088	0.0059
Venus	90333-05-02 17:03 G	34714632.04	34714632.21	34714632.41	0.0088	0.0049
Venus	90333-12-14 06:00 G	34714857.57	34714857.75	34714857.96	0.0088	0.0039
Venus	90334-07-27 19:12 G	34715083.10	34715083.30	34715083.52	0.0088	0.0028
Venus	90335-03-10 08:10 G	34715308.63	34715308.84	34715309.06	0.0088	0.0018
Venus	90335-10-21 21:22 G	34715534.18	34715534.39	34715534.62	0.0088	0.0007
Venus	90336-06-03 10:34 G	34715759.72	34715759.94	34715760.16	0.0089	0.0004
Venus	90337-01-14 23:31 G	34715985.26	34715985.48	34715985.70	0.0089	0.0014
Venus	90337-08-28 12:15 G	34716210.81	34716211.01	34716211.23	0.0089	0.0024
Venus	90338-04-11 01:12 G	34716436.36	34716436.55	34716436.76	0.0089	0.0035
Venus	90338-11-22 14:24 G	34716661.91	34716662.10	34716662.29	0.0089	0.0045
Venus	90339-07-06 02:53 G	34716887.47	34716887.62	34716887.81	0.0089	0.0056
Venus	90340-02-16 15:51 G	34717113.03	34717113.16	34717113.33	0.0089	0.0066
Venus	90340-09-29 05:03 G	34717338.61	34717338.71	34717338.83	0.0089	0.0076
Venus	90341-05-12 17:31 G	34717564.21	34717564.23	34717564.30	0.0089	0.0087
Moon	90342-01-23 23:46 G	34717820.43	34717820.49	34717820.59	0.0089	0.0084
Earth	90342-01-24 00:58 G	34717820.49	34717820.54	34717820.64	0.0089	0.0085 *
Earth	90343-01-26 13:27 G	34718187.91	34718188.06	34718188.25	0.0089	0.0066
Moon	90343-01-26 14:24 G	34718187.93	34718188.10	34718188.28	0.0089	0.0067 *
Earth	90344-01-29 01:55 G	34718555.37	34718555.58	34718555.81	0.0089	0.0047
Moon	90344-01-29 03:07 G	34718555.43	34718555.63	34718555.86	0.0089	0.0046 *
Moon	90345-01-30 12:15 G	34718922.77	34718923.01	34718923.27	0.0089	0.0029
Earth	90345-01-30 14:24 G	34718922.87	34718923.10	34718923.36	0.0089	0.0028 *
Earth	90346-02-02 02:53 G	34719290.37	34719290.62	34719290.89	0.0089	0.0009

Moon	90346-02-02 05:46 G	34719290.49	34719290.74	34719291.00	0.0089	0.0007 *
Moon	90347-02-04 11:46 G	34719657.73	34719657.99	34719658.25	0.0089	0.0009
Earth	90347-02-04 15:22 G	34719657.89	34719658.14	34719658.40	0.0089	0.0011 *
Earth	90348-02-07 03:22 G	34720025.42	34720025.64	34720025.90	0.0089	0.0030
Moon	90348-02-07 06:58 G	34720025.56	34720025.79	34720026.05	0.0089	0.0032 *
Moon	90349-02-08 12:43 G	34720392.82	34720393.03	34720393.26	0.0089	0.0046
Earth	90349-02-08 15:51 G	34720392.97	34720393.16	34720393.40	0.0089	0.0049 *
Jupiter	90349-02-25 23:03 G	34720410.11	34720410.46	34720410.86	0.0089	0.0065
Earth	90350-02-11 04:05 G	34720760.53	34720760.67	34720760.86	0.0089	0.0068
Moon	90350-02-11 06:43 G	34720760.64	34720760.78	34720760.96	0.0089	0.0070 *
Moon	90351-02-13 15:36 G	34721128.08	34721128.15	34721128.23	0.0089	0.0085
Earth	90351-02-13 16:19 G	34721128.16	34721128.18	34721128.27	0.0089	0.0087 *
Mercury	90374-08-13 01:27 G	34729709.52	34729709.56	34729709.63	0.0090	0.0086
Mercury	90374-11-09 05:03 G	34729797.62	34729797.71	34729797.83	0.0090	0.0075
Saturn	90375-01-25 18:00 G	34729875.15	34729875.25	34729875.38	0.0090	0.0088
Mercury	90375-02-05 08:39 G	34729885.74	34729885.86	34729886.00	0.0090	0.0064
Mercury	90375-05-04 12:15 G	34729973.86	34729974.01	34729974.17	0.0090	0.0053
Mercury	90375-07-31 15:36 G	34730062.00	34730062.15	34730062.33	0.0090	0.0043
Mercury	90375-10-27 19:12 G	34730150.13	34730150.30	34730150.49	0.0090	0.0032
Mercury	90376-01-23 22:48 G	34730238.27	34730238.45	34730238.64	0.0090	0.0021
Mercury	90376-04-21 02:24 G	34730326.41	34730326.60	34730326.79	0.0090	0.0010
Mercury	90376-07-18 06:00 G	34730414.56	34730414.75	34730414.94	0.0090	0.0002
Mercury	90376-10-14 09:22 G	34730502.70	34730502.89	34730503.08	0.0090	0.0012
Mercury	90377-01-10 12:43 G	34730590.85	34730591.03	34730591.22	0.0090	0.0023
Mercury	90377-04-08 16:19 G	34730679.00	34730679.18	34730679.35	0.0090	0.0033
Mercury	90377-07-05 19:27 G	34730767.16	34730767.31	34730767.49	0.0090	0.0044
Mars	90377-08-22 04:34 G	34730814.62	34730814.69	34730814.82	0.0090	0.0084
Mercury	90377-10-01 22:48 G	34730855.32	34730855.45	34730855.61	0.0090	0.0055
Mercury	90377-12-29 02:24 G	34730943.48	34730943.60	34730943.74	0.0090	0.0065
Mercury	90378-03-27 05:31 G	34731031.65	34731031.73	34731031.85	0.0090	0.0076

Mercury	90378-06-23 09:07 G	34731119.84	34731119.88	34731119.94	0.0090	0.0086
Mars	90379-07-16 18:29 G	34731508.01	34731508.27	34731508.55	0.0090	0.0031
Venus	90412-05-16 04:34 G	34743500.63	34743500.69	34743500.79	0.0089	0.0083
Venus	90412-12-27 18:00 G	34743726.13	34743726.25	34743726.38	0.0089	0.0072
Venus	90413-08-10 06:43 G	34743951.64	34743951.78	34743951.95	0.0089	0.0062
Venus	90414-03-23 19:41 G	34744177.17	34744177.32	34744177.52	0.0089	0.0052
Venus	90414-11-04 09:07 G	34744402.69	34744402.88	34744403.08	0.0089	0.0041
Venus	90415-06-17 22:05 G	34744628.23	34744628.42	34744628.64	0.0089	0.0031
Venus	90416-01-29 11:17 G	34744853.76	34744853.97	34744854.19	0.0089	0.0020
Venus	90416-09-11 00:14 G	34745079.30	34745079.51	34745079.74	0.0089	0.0010
Venus	90417-04-24 13:26 G	34745304.85	34745305.06	34745305.29	0.0089	0.0002
Venus	90417-12-06 02:24 G	34745530.39	34745530.60	34745530.83	0.0089	0.0012
Venus	90418-07-19 15:36 G	34745755.94	34745756.15	34745756.36	0.0089	0.0022
Venus	90419-03-02 04:19 G	34745981.49	34745981.68	34745981.90	0.0089	0.0033
Venus	90419-10-13 17:31 G	34746207.04	34746207.23	34746207.43	0.0089	0.0043
Venus	90420-05-26 06:14 G	34746432.61	34746432.76	34746432.96	0.0089	0.0054
Venus	90421-01-06 19:26 G	34746658.17	34746658.31	34746658.48	0.0089	0.0064
Venus	90421-08-20 08:53 G	34746883.75	34746883.87	34746883.99	0.0089	0.0074
Venus	90422-04-02 21:22 G	34747109.35	34747109.39	34747109.48	0.0089	0.0085
Moon	90423-07-23 18:29 G	34747586.14	34747586.27	34747586.43	0.0089	0.0071
Earth	90423-07-23 18:58 G	34747586.17	34747586.29	34747586.46	0.0089	0.0074 *
Moon	90424-07-25 05:31 G	34747953.54	34747953.73	34747953.93	0.0089	0.0058
Earth	90424-07-25 06:14 G	34747953.57	34747953.76	34747953.97	0.0089	0.0055 *
Earth	90425-07-27 17:02 G	34748320.99	34748321.21	34748321.46	0.0089	0.0037
Moon	90425-07-27 19:26 G	34748321.09	34748321.31	34748321.55	0.0089	0.0033 *
Moon	90426-07-30 01:41 G	34748688.32	34748688.57	34748688.83	0.0088	0.0020
Earth	90426-07-30 04:19 G	34748688.44	34748688.68	34748688.94	0.0088	0.0018 *
Earth	90427-08-01 15:36 G	34749055.89	34749056.15	34749056.41	0.0088	0.0001
Moon	90427-08-01 19:12 G	34749056.04	34749056.30	34749056.55	0.0088	0.0004 *
Moon	90428-08-02 23:02 G	34749423.21	34749423.46	34749423.71	0.0088	0.0017



Earth	90428-08-03 02:10 G	34749423.36	34749423.59	34749423.86	0.0088	0.0021	*
Earth	90429-08-05 13:12 G	34749790.83	34749791.05	34749791.29	0.0088	0.0039	
Moon	90429-08-05 16:34 G	34749790.97	34749791.19	34749791.43	0.0088	0.0041	*
Moon	90430-08-07 21:22 G	34750158.22	34750158.39	34750158.61	0.0088	0.0055	
Earth	90430-08-08 00:00 G	34750158.32	34750158.50	34750158.71	0.0088	0.0057	*
Earth	90431-08-10 10:48 G	34750525.84	34750525.95	34750526.10	0.0088	0.0076	
Moon	90431-08-10 11:46 G	34750525.90	34750525.99	34750526.15	0.0088	0.0079	*
Mercury	90455-11-19 14:38 G	34759393.07	34759393.11	34759393.17	0.0088	0.0081	
Mercury	90456-02-15 16:05 G	34759481.10	34759481.17	34759481.24	0.0088	0.0074	
Mercury	90456-05-13 17:17 G	34759569.14	34759569.22	34759569.31	0.0088	0.0067	
Mercury	90456-08-09 18:43 G	34759657.19	34759657.28	34759657.38	0.0088	0.0060	
Mercury	90456-11-05 19:55 G	34759745.23	34759745.33	34759745.45	0.0088	0.0053	
Mercury	90457-02-01 21:22 G	34759833.28	34759833.39	34759833.51	0.0088	0.0046	
Mercury	90457-04-30 22:34 G	34759921.33	34759921.44	34759921.57	0.0088	0.0039	
Mercury	90457-07-28 00:00 G	34760009.38	34760009.50	34760009.63	0.0088	0.0032	
Mercury	90457-10-24 01:26 G	34760097.43	34760097.56	34760097.69	0.0088	0.0024	
Mercury	90458-01-20 02:38 G	34760185.48	34760185.61	34760185.75	0.0088	0.0018	
Mercury	90458-04-18 04:05 G	34760273.54	34760273.67	34760273.81	0.0088	0.0010	
Mercury	90458-07-15 05:31 G	34760361.59	34760361.73	34760361.86	0.0088	0.0003	
Mercury	90458-10-11 06:43 G	34760449.65	34760449.78	34760449.92	0.0088	0.0005	
Mercury	90459-01-07 08:10 G	34760537.71	34760537.84	34760537.98	0.0088	0.0011	
Mercury	90459-04-05 09:22 G	34760625.76	34760625.89	34760626.03	0.0088	0.0019	
Mercury	90459-07-02 10:48 G	34760713.82	34760713.95	34760714.08	0.0088	0.0026	
Mercury	90459-09-28 12:14 G	34760801.88	34760802.01	34760802.13	0.0088	0.0033	
Mercury	90459-12-25 13:26 G	34760889.95	34760890.06	34760890.19	0.0088	0.0041	
Mercury	90460-03-22 14:53 G	34760978.01	34760978.12	34760978.24	0.0088	0.0048	
Mercury	90460-06-18 16:19 G	34761066.07	34761066.18	34761066.29	0.0088	0.0055	
Mercury	90460-09-14 17:17 G	34761154.14	34761154.22	34761154.33	0.0088	0.0063	
Mercury	90460-12-11 18:43 G	34761242.21	34761242.28	34761242.38	0.0088	0.0070	
Mercury	90461-03-09 20:24 G	34761330.29	34761330.35	34761330.42	0.0088	0.0077	

Mars	90461-05-22 20:24 G	34761404.03	34761404.35	34761404.71	0.0088	0.0020
Mercury	90461-06-05 21:50 G	34761418.38	34761418.41	34761418.45	0.0088	0.0084
Venus	90495-09-27 13:26 G	34773950.01	34773950.06	34773950.17	0.0088	0.0083
Venus	90496-05-10 02:53 G	34774175.50	34774175.62	34774175.75	0.0088	0.0072
Venus	90496-12-21 15:36 G	34774401.01	34774401.15	34774401.32	0.0088	0.0062
Venus	90497-08-04 04:34 G	34774626.53	34774626.69	34774626.88	0.0088	0.0051
Venus	90498-03-17 17:46 G	34774852.05	34774852.24	34774852.44	0.0088	0.0041
Venus	90498-10-29 06:43 G	34775077.59	34775077.78	34775078.00	0.0088	0.0031
Venus	90499-06-11 19:41 G	34775303.12	34775303.32	34775303.55	0.0088	0.0021
Venus	90500-01-23 08:53 G	34775528.65	34775528.87	34775529.09	0.0089	0.0010
Venus	90500-09-05 21:50 G	34775754.19	34775754.41	34775754.63	0.0089	0.0001
Venus	90501-04-19 10:48 G	34775979.73	34775979.95	34775980.17	0.0089	0.0011
Venus	90501-11-30 23:46 G	34776205.28	34776205.49	34776205.71	0.0089	0.0022
Venus	90502-07-14 12:29 G	34776430.83	34776431.02	34776431.24	0.0089	0.0033
Venus	90503-02-25 01:41 G	34776656.39	34776656.57	34776656.77	0.0089	0.0043
Venus	90503-10-08 14:53 G	34776881.95	34776882.12	34776882.30	0.0089	0.0053
Venus	90504-05-21 03:22 G	34777107.51	34777107.64	34777107.81	0.0089	0.0064
Venus	90505-01-01 16:19 G	34777333.08	34777333.18	34777333.32	0.0089	0.0074
Venus	90505-08-15 05:17 G	34777558.67	34777558.72	34777558.81	0.0089	0.0084
Moon	90506-01-24 10:34 G	34777720.86	34777720.94	34777721.02	0.0089	0.0084
Earth	90507-01-26 23:02 G	34778088.32	34778088.46	34778088.64	0.0089	0.0070
Moon	90507-01-27 00:14 G	34778088.40	34778088.51	34778088.67	0.0089	0.0075 *
Moon	90508-01-29 09:07 G	34778455.66	34778455.88	34778456.11	0.0089	0.0046
Earth	90508-01-29 12:00 G	34778455.79	34778456.00	34778456.21	0.0089	0.0051 *
Earth	90509-01-31 00:14 G	34778823.27	34778823.51	34778823.76	0.0089	0.0032
Moon	90509-01-31 03:22 G	34778823.42	34778823.64	34778823.88	0.0089	0.0037 *
Moon	90510-02-02 09:07 G	34779190.62	34779190.88	34779191.14	0.0089	0.0009
Earth	90510-02-02 12:43 G	34779190.77	34779191.03	34779191.29	0.0089	0.0013 *
Earth	90511-02-05 00:58 G	34779558.28	34779558.54	34779558.80	0.0089	0.0006
Moon	90511-02-05 04:34 G	34779558.43	34779558.69	34779558.96	0.0089	0.0002 *

Moon	90512-02-07 10:48 G	34779925.71	34779925.95	34779926.19	0.0089	0.0029
Earth	90512-02-07 13:12 G	34779925.81	34779926.05	34779926.31	0.0089	0.0025 *
Earth	90513-02-09 01:26 G	34780293.35	34780293.56	34780293.80	0.0089	0.0044
Moon	90513-02-09 03:50 G	34780293.44	34780293.66	34780293.92	0.0089	0.0040 *
Moon	90514-02-11 12:43 G	34780660.89	34780661.03	34780661.22	0.0089	0.0068
Earth	90514-02-11 13:41 G	34780660.92	34780661.07	34780661.28	0.0089	0.0064 *
Moon	90515-02-14 02:10 G	34781028.46	34781028.59	34781028.72	0.0089	0.0078
Earth	90515-02-14 02:10 G	34781028.51	34781028.59	34781028.71	0.0089	0.0082 *
Mercury	90539-05-11 00:14 G	34789880.44	34789880.51	34789880.61	0.0090	0.0080
Mercury	90539-08-07 03:50 G	34789968.56	34789968.66	34789968.80	0.0090	0.0069
Mercury	90539-11-03 07:41 G	34790056.68	34790056.82	34790056.97	0.0090	0.0058
Mercury	90540-01-30 11:17 G	34790144.81	34790144.97	34790145.13	0.0090	0.0047
Mercury	90540-04-27 14:53 G	34790232.94	34790233.12	34790233.29	0.0090	0.0036
Mercury	90540-07-24 18:14 G	34790321.08	34790321.26	34790321.45	0.0090	0.0025
Mercury	90540-10-20 21:50 G	34790409.22	34790409.41	34790409.60	0.0090	0.0014
Mercury	90541-01-17 01:26 G	34790497.37	34790497.56	34790497.75	0.0090	0.0004
Mercury	90541-04-15 04:48 G	34790585.51	34790585.70	34790585.89	0.0090	0.0007
Mercury	90541-07-12 08:10 G	34790673.66	34790673.84	34790674.03	0.0090	0.0018
Mercury	90541-10-08 11:31 G	34790761.81	34790761.98	34790762.17	0.0090	0.0029
Mercury	90542-01-04 14:53 G	34790849.97	34790850.12	34790850.30	0.0090	0.0040
Mercury	90542-04-02 18:29 G	34790938.12	34790938.27	34790938.43	0.0090	0.0050
Mercury	90542-06-29 21:50 G	34791026.28	34791026.41	34791026.56	0.0090	0.0061
Mercury	90542-09-26 01:26 G	34791114.45	34791114.56	34791114.68	0.0090	0.0071
Mercury	90542-12-23 04:34 G	34791202.63	34791202.69	34791202.78	0.0090	0.0082
Mars	90543-03-02 12:58 G	34791271.76	34791272.04	34791272.33	0.0090	0.0012
Venus	90576-08-18 16:05 G	34803495.12	34803495.17	34803495.24	0.0089	0.0085
Venus	90577-04-01 05:02 G	34803720.61	34803720.71	34803720.84	0.0089	0.0075
Venus	90577-11-12 18:00 G	34803946.12	34803946.25	34803946.42	0.0089	0.0065
Venus	90578-06-26 07:12 G	34804171.64	34804171.80	34804171.98	0.0089	0.0054
Venus	90579-02-06 20:10 G	34804397.16	34804397.34	34804397.54	0.0089	0.0044

Venus	90579-09-20 09:22 G	34804622.69	34804622.89	34804623.10	0.0089	0.0033
Venus	90580-05-02 22:19 G	34804848.23	34804848.43	34804848.66	0.0089	0.0023
Venus	90580-12-14 11:46 G	34805073.77	34805073.99	34805074.21	0.0089	0.0012
Venus	90581-07-28 00:43 G	34805299.31	34805299.53	34805299.75	0.0089	0.0002
Venus	90582-03-10 13:41 G	34805524.85	34805525.07	34805525.29	0.0089	0.0009
Venus	90582-10-22 02:38 G	34805750.40	34805750.61	34805750.83	0.0089	0.0020
Venus	90583-06-04 15:50 G	34805975.96	34805976.16	34805976.37	0.0089	0.0030
Venus	90584-01-16 04:34 G	34806201.51	34806201.69	34806201.90	0.0089	0.0041
Venus	90584-08-28 17:46 G	34806427.07	34806427.24	34806427.43	0.0089	0.0051
Venus	90585-04-11 06:29 G	34806652.64	34806652.77	34806652.96	0.0089	0.0062
Venus	90585-11-22 19:41 G	34806878.21	34806878.32	34806878.47	0.0089	0.0072
Venus	90586-07-06 09:07 G	34807103.80	34807103.88	34807103.97	0.0089	0.0082
Moon	90587-07-24 05:02 G	34807486.61	34807486.71	34807486.84	0.0089	0.0080
Earth	90587-07-24 06:00 G	34807486.66	34807486.75	34807486.90	0.0089	0.0078 *
Earth	90588-07-25 16:48 G	34807854.04	34807854.20	34807854.41	0.0089	0.0060
Moon	90588-07-25 19:26 G	34807854.13	34807854.31	34807854.51	0.0089	0.0056 *
Moon	90589-07-28 00:43 G	34808221.31	34808221.53	34808221.77	0.0089	0.0043
Earth	90589-07-28 04:05 G	34808221.46	34808221.67	34808221.91	0.0089	0.0041 *
Earth	90590-07-30 15:22 G	34808588.89	34808589.14	34808589.39	0.0088	0.0022
Moon	90590-07-30 18:29 G	34808589.03	34808589.27	34808589.53	0.0088	0.0019 *
Moon	90591-08-01 22:48 G	34808956.20	34808956.45	34808956.70	0.0088	0.0007
Earth	90591-08-02 02:24 G	34808956.35	34808956.60	34808956.86	0.0088	0.0003 *
Earth	90592-08-03 13:12 G	34809323.81	34809324.05	34809324.31	0.0088	0.0016
Moon	90592-08-03 16:05 G	34809323.92	34809324.17	34809324.43	0.0088	0.0019 *
Moon	90593-08-05 22:19 G	34809691.20	34809691.43	34809691.67	0.0088	0.0031
Earth	90593-08-06 00:14 G	34809691.29	34809691.51	34809691.76	0.0088	0.0034 *
Earth	90594-08-08 11:17 G	34810058.78	34810058.97	34810059.19	0.0088	0.0053
Moon	90594-08-08 12:00 G	34810058.82	34810059.00	34810059.23	0.0088	0.0057 *
Earth	90595-08-10 22:05 G	34810426.29	34810426.42	34810426.59	0.0088	0.0071
Moon	90595-08-10 22:48 G	34810426.31	34810426.45	34810426.62	0.0088	0.0069 *

Mercury	90620-05-21 13:12 G	34819476.03	34819476.05	34819476.10	0.0088	0.0084
Mercury	90620-08-17 14:38 G	34819564.05	34819564.11	34819564.18	0.0088	0.0077
Mercury	90620-11-13 15:50 G	34819652.09	34819652.16	34819652.25	0.0088	0.0070
Mercury	90621-02-09 17:17 G	34819740.13	34819740.22	34819740.32	0.0088	0.0063
Mercury	90621-05-08 18:29 G	34819828.18	34819828.27	34819828.38	0.0088	0.0056
Mercury	90621-08-04 19:55 G	34819916.22	34819916.33	34819916.45	0.0088	0.0049
Mercury	90621-10-31 21:07 G	34820004.27	34820004.38	34820004.51	0.0088	0.0042
Mercury	90622-01-27 22:34 G	34820092.32	34820092.44	34820092.57	0.0088	0.0035
Mercury	90622-04-26 00:00 G	34820180.37	34820180.50	34820180.63	0.0088	0.0027
Mercury	90622-07-23 01:12 G	34820268.43	34820268.55	34820268.69	0.0088	0.0021
Mercury	90622-10-19 02:38 G	34820356.48	34820356.61	34820356.75	0.0088	0.0013
Mercury	90623-01-15 04:05 G	34820444.53	34820444.67	34820444.80	0.0088	0.0006
Mercury	90623-04-13 05:17 G	34820532.59	34820532.72	34820532.86	0.0088	0.0003
Mercury	90623-07-10 06:43 G	34820620.65	34820620.78	34820620.91	0.0088	0.0009
Mercury	90623-10-06 07:55 G	34820708.70	34820708.83	34820708.97	0.0088	0.0016
Mercury	90624-01-02 09:22 G	34820796.76	34820796.89	34820797.02	0.0088	0.0023
Mercury	90624-03-30 10:48 G	34820884.82	34820884.95	34820885.08	0.0088	0.0030
Mercury	90624-06-26 12:00 G	34820972.88	34820973.00	34820973.13	0.0088	0.0037
Mercury	90624-09-22 13:12 G	34821060.95	34821061.05	34821061.18	0.0088	0.0045
Mercury	90624-12-19 14:38 G	34821149.01	34821149.11	34821149.23	0.0088	0.0052
Mars	90625-01-05 07:26 G	34821165.49	34821165.81	34821166.15	0.0088	0.0029
Mercury	90625-03-17 16:19 G	34821237.08	34821237.18	34821237.28	0.0088	0.0059
Mercury	90625-06-13 17:17 G	34821325.15	34821325.22	34821325.32	0.0088	0.0067
Mercury	90625-09-09 18:43 G	34821413.22	34821413.28	34821413.36	0.0088	0.0074
Mercury	90625-12-06 20:10 G	34821501.30	34821501.34	34821501.40	0.0088	0.0081
Venus	90660-01-01 01:12 G	34833944.50	34833944.55	34833944.62	0.0088	0.0085
Venus	90660-08-13 14:10 G	34834169.99	34834170.09	34834170.22	0.0088	0.0075
Venus	90661-03-27 02:53 G	34834395.49	34834395.62	34834395.80	0.0088	0.0065
Venus	90661-11-07 16:34 G	34834621.02	34834621.19	34834621.37	0.0088	0.0054
Venus	90662-06-21 05:17 G	34834846.54	34834846.72	34834846.93	0.0088	0.0044

Venus	90663-02-01 18:14 G	34835072.07	34835072.26	34835072.48	0.0088	0.0033
Venus	90663-09-15 07:26 G	34835297.60	34835297.81	34835298.03	0.0088	0.0023
Venus	90664-04-27 20:24 G	34835523.14	34835523.35	34835523.57	0.0088	0.0012
Venus	90664-12-09 09:36 G	34835748.68	34835748.90	34835749.12	0.0089	0.0002
Venus	90665-07-22 22:34 G	34835974.22	34835974.44	34835974.66	0.0089	0.0009
Venus	90666-03-05 11:17 G	34836199.76	34836199.97	34836200.19	0.0089	0.0019
Venus	90666-10-17 00:29 G	34836425.32	34836425.52	34836425.73	0.0089	0.0030
Venus	90667-05-30 13:12 G	34836650.87	34836651.05	34836651.26	0.0089	0.0041
Venus	90668-01-11 02:10 G	34836876.42	34836876.59	34836876.78	0.0089	0.0051
Venus	90668-08-23 15:07 G	34837101.99	34837102.13	34837102.30	0.0089	0.0061
Venus	90669-04-06 03:50 G	34837327.56	34837327.66	34837327.81	0.0089	0.0072
Venus	90669-11-17 17:02 G	34837553.15	34837553.21	34837553.32	0.0089	0.0082
Moon	90671-01-27 06:00 G	34837988.64	34837988.75	34837988.93	0.0089	0.0075
Earth	90671-01-27 08:53 G	34837988.76	34837988.87	34837989.04	0.0089	0.0075 *
Earth	90672-01-29 21:36 G	34838356.22	34838356.40	34838356.62	0.0089	0.0056
Moon	90672-01-30 01:26 G	34838356.37	34838356.56	34838356.77	0.0089	0.0056 *
Moon	90673-01-31 06:43 G	34838723.56	34838723.78	34838724.03	0.0089	0.0037
Earth	90673-01-31 10:05 G	34838723.71	34838723.92	34838724.18	0.0089	0.0037 *
Earth	90674-02-02 22:34 G	34839091.20	34839091.44	34839091.71	0.0089	0.0018
Moon	90674-02-03 01:55 G	34839091.34	34839091.58	34839091.85	0.0089	0.0019 *
Moon	90675-02-05 08:24 G	34839458.60	34839458.85	34839459.11	0.0089	0.0003
Earth	90675-02-05 11:17 G	34839458.71	34839458.97	34839459.23	0.0089	0.0001 *
Earth	90676-02-07 23:31 G	34839826.23	34839826.48	34839826.74	0.0089	0.0020
Moon	90676-02-08 00:43 G	34839826.28	34839826.53	34839826.81	0.0089	0.0020 *
Moon	90677-02-09 11:02 G	34840193.75	34840193.96	34840194.20	0.0089	0.0041
Earth	90677-02-09 11:46 G	34840193.77	34840193.99	34840194.23	0.0089	0.0039 *
Moon	90678-02-11 23:02 G	34840561.28	34840561.46	34840561.69	0.0089	0.0057
Earth	90678-02-12 00:00 G	34840561.32	34840561.50	34840561.70	0.0089	0.0058 *
Earth	90679-02-14 12:14 G	34840928.90	34840929.01	34840929.15	0.0089	0.0077
Moon	90679-02-14 14:10 G	34840928.99	34840929.09	34840929.23	0.0089	0.0078 *

Mercury	90703-11-10 19:41 G	34849963.28	34849963.32	34849963.40	0.0090	0.0085
Mercury	90704-02-06 23:17 G	34850051.38	34850051.47	34850051.60	0.0090	0.0074
Mercury	90704-05-05 02:53 G	34850139.50	34850139.62	34850139.77	0.0090	0.0063
Mercury	90704-08-01 06:29 G	34850227.63	34850227.77	34850227.94	0.0090	0.0052
Mercury	90704-10-28 10:05 G	34850315.76	34850315.92	34850316.10	0.0090	0.0041
Mercury	90705-01-24 13:41 G	34850403.90	34850404.07	34850404.26	0.0090	0.0030
Mercury	90705-04-22 17:17 G	34850492.04	34850492.22	34850492.41	0.0090	0.0019
Mercury	90705-07-19 20:53 G	34850580.18	34850580.37	34850580.56	0.0090	0.0008
Mercury	90705-10-16 00:29 G	34850668.33	34850668.52	34850668.71	0.0090	0.0003
Mercury	90706-01-12 03:50 G	34850756.48	34850756.66	34850756.85	0.0090	0.0013
Mercury	90706-04-10 07:26 G	34850844.63	34850844.81	34850844.99	0.0090	0.0024
Mercury	90706-07-07 10:48 G	34850932.78	34850932.95	34850933.13	0.0090	0.0035
Mercury	90706-10-03 13:55 G	34851020.93	34851021.08	34851021.26	0.0090	0.0046
Mars	90706-10-18 05:31 G	34851035.53	34851035.73	34851035.99	0.0090	0.0054
Mercury	90706-12-30 17:46 G	34851109.09	34851109.24	34851109.39	0.0090	0.0056
Mercury	90707-03-28 20:53 G	34851197.26	34851197.37	34851197.51	0.0090	0.0067
Mercury	90707-06-25 00:14 G	34851285.43	34851285.51	34851285.62	0.0090	0.0078
Mercury	90707-09-21 03:50 G	34851373.63	34851373.66	34851373.70	0.0090	0.0088
Mars	90708-09-10 19:41 G	34851729.14	34851729.32	34851729.56	0.0090	0.0061
Venus	90740-11-22 03:36 G	34863489.64	34863489.65	34863489.70	0.0089	0.0088
Venus	90741-07-05 16:19 G	34863715.10	34863715.18	34863715.31	0.0089	0.0078
Venus	90742-02-16 05:31 G	34863940.60	34863940.73	34863940.89	0.0089	0.0067
Venus	90742-09-29 18:29 G	34864166.12	34864166.27	34864166.45	0.0089	0.0057
Venus	90743-05-13 07:55 G	34864391.65	34864391.83	34864392.02	0.0089	0.0046
Venus	90743-12-24 20:38 G	34864617.17	34864617.36	34864617.58	0.0089	0.0036
Venus	90744-08-06 10:05 G	34864842.71	34864842.92	34864843.13	0.0089	0.0025
Venus	90745-03-19 23:02 G	34865068.24	34865068.46	34865068.68	0.0089	0.0015
Venus	90745-10-31 12:14 G	34865293.79	34865294.01	34865294.23	0.0089	0.0004
Venus	90746-06-14 01:12 G	34865519.33	34865519.55	34865519.77	0.0089	0.0007
Venus	90747-01-25 14:10 G	34865744.88	34865745.09	34865745.31	0.0089	0.0017

Venus	90747-09-08 03:07 G	34865970.43	34865970.63	34865970.85	0.0089	0.0028
Venus	90748-04-20 16:19 G	34866195.99	34866196.18	34866196.39	0.0089	0.0038
Venus	90748-12-02 05:02 G	34866421.55	34866421.71	34866421.92	0.0089	0.0049
Venus	90749-07-15 18:14 G	34866647.11	34866647.26	34866647.44	0.0089	0.0059
Venus	90750-02-26 06:58 G	34866872.68	34866872.79	34866872.95	0.0089	0.0070
Venus	90750-10-09 20:10 G	34867098.26	34867098.34	34867098.45	0.0089	0.0080
Earth	90751-07-25 17:17 G	34867387.15	34867387.22	34867387.34	0.0089	0.0082
Moon	90751-07-25 19:55 G	34867387.29	34867387.33	34867387.42	0.0089	0.0086 *
Moon	90752-07-27 01:26 G	34867754.37	34867754.56	34867754.75	0.0089	0.0059
Earth	90752-07-27 04:05 G	34867754.52	34867754.67	34867754.88	0.0089	0.0064 *
Earth	90753-07-29 15:07 G	34868121.93	34868122.13	34868122.37	0.0089	0.0045
Moon	90753-07-29 19:12 G	34868122.09	34868122.30	34868122.51	0.0089	0.0049 *
Moon	90754-07-31 23:02 G	34868489.22	34868489.46	34868489.71	0.0089	0.0023
Earth	90754-08-01 01:55 G	34868489.35	34868489.58	34868489.84	0.0089	0.0027 *
Earth	90755-08-03 13:12 G	34868856.79	34868857.05	34868857.30	0.0088	0.0008
Moon	90755-08-03 16:05 G	34868856.91	34868857.17	34868857.43	0.0088	0.0011 *
Moon	90756-08-04 22:34 G	34869224.20	34869224.44	34869224.69	0.0088	0.0015
Earth	90756-08-05 00:00 G	34869224.25	34869224.50	34869224.76	0.0088	0.0011 *
Earth	90757-08-07 11:02 G	34869591.72	34869591.96	34869592.21	0.0088	0.0030
Moon	90757-08-07 11:17 G	34869591.73	34869591.97	34869592.24	0.0088	0.0027 *
Jupiter	90758-02-10 07:55 G	34869778.39	34869778.83	34869779.35	0.0088	0.0038
Earth	90758-08-09 21:50 G	34869959.21	34869959.41	34869959.64	0.0088	0.0048
Moon	90758-08-09 22:34 G	34869959.25	34869959.44	34869959.65	0.0088	0.0052 *
Moon	90759-08-12 06:29 G	34870326.60	34870326.77	34870326.97	0.0088	0.0063
Earth	90759-08-12 08:53 G	34870326.72	34870326.87	34870327.05	0.0088	0.0067 *
Earth	90760-08-13 20:10 G	34870694.28	34870694.34	34870694.41	0.0088	0.0085
Mercury	90784-11-20 12:00 G	34879558.99	34879559.00	34879559.02	0.0088	0.0087
Mercury	90785-02-16 13:12 G	34879647.01	34879647.05	34879647.11	0.0088	0.0080
Mercury	90785-05-15 14:38 G	34879735.04	34879735.11	34879735.19	0.0088	0.0073
Mercury	90785-08-11 15:50 G	34879823.08	34879823.16	34879823.26	0.0088	0.0066



Mercury	90785-11-07 17:02 G	34879911.12	34879911.21	34879911.32	0.0088	0.0059
Mercury	90786-02-03 18:29 G	34879999.17	34879999.27	34879999.39	0.0088	0.0052
Mercury	90786-05-02 19:55 G	34880087.22	34880087.33	34880087.45	0.0088	0.0044
Mercury	90786-07-29 21:07 G	34880175.27	34880175.38	34880175.51	0.0088	0.0038
Mercury	90786-10-25 22:34 G	34880263.32	34880263.44	34880263.57	0.0088	0.0030
Mercury	90787-01-22 00:00 G	34880351.37	34880351.50	34880351.63	0.0088	0.0023
Mercury	90787-04-20 01:12 G	34880439.42	34880439.55	34880439.69	0.0088	0.0016
Mercury	90787-07-17 02:38 G	34880527.48	34880527.61	34880527.74	0.0088	0.0009
Mercury	90787-10-13 03:50 G	34880615.53	34880615.66	34880615.80	0.0088	0.0003
Mercury	90788-01-09 05:17 G	34880703.59	34880703.72	34880703.86	0.0088	0.0006
Mercury	90788-04-06 06:43 G	34880791.64	34880791.78	34880791.91	0.0088	0.0013
Mercury	90788-07-03 07:55 G	34880879.70	34880879.83	34880879.96	0.0088	0.0020
Mars	90788-08-19 18:29 G	34880927.11	34880927.27	34880927.45	0.0088	0.0076
Mercury	90788-09-29 09:22 G	34880967.76	34880967.89	34880968.02	0.0088	0.0027
Mercury	90788-12-26 10:34 G	34881055.82	34881055.94	34881056.07	0.0088	0.0035
Mercury	90789-03-24 11:46 G	34881143.88	34881143.99	34881144.12	0.0088	0.0042
Mercury	90789-06-20 13:12 G	34881231.95	34881232.05	34881232.17	0.0088	0.0049
Mercury	90789-09-16 14:38 G	34881320.01	34881320.11	34881320.22	0.0088	0.0056
Mercury	90789-12-13 15:50 G	34881408.08	34881408.16	34881408.27	0.0088	0.0064
Mercury	90790-03-11 17:17 G	34881496.15	34881496.22	34881496.31	0.0088	0.0071
Mercury	90790-06-07 18:43 G	34881584.23	34881584.28	34881584.35	0.0088	0.0078
Mars	90790-07-17 03:22 G	34881623.40	34881623.64	34881623.94	0.0088	0.0055
Mercury	90790-09-03 20:10 G	34881672.32	34881672.34	34881672.37	0.0088	0.0085
Venus	90824-04-04 12:29 G	34893939.01	34893939.02	34893939.07	0.0088	0.0088
Venus	90824-11-16 01:26 G	34894164.48	34894164.56	34894164.69	0.0088	0.0078
Venus	90825-06-29 14:53 G	34894389.99	34894390.12	34894390.27	0.0088	0.0067
Venus	90826-02-10 03:36 G	34894615.50	34894615.65	34894615.84	0.0088	0.0057
Venus	90826-09-23 16:34 G	34894841.02	34894841.19	34894841.40	0.0088	0.0047
Venus	90827-05-07 06:00 G	34895066.55	34895066.75	34895066.96	0.0088	0.0036
Venus	90827-12-18 18:43 G	34895292.08	34895292.28	34895292.51	0.0088	0.0026

Venus	90828-07-31 07:55 G	34895517.62	34895517.83	34895518.05	0.0088	0.0015
Venus	90829-03-13 20:53 G	34895743.15	34895743.37	34895743.59	0.0089	0.0004
Venus	90829-10-25 10:05 G	34895968.70	34895968.92	34895969.14	0.0089	0.0006
Venus	90830-06-07 22:48 G	34896194.24	34896194.45	34896194.68	0.0089	0.0017
Venus	90831-01-19 11:31 G	34896419.79	34896419.98	34896420.21	0.0089	0.0028
Venus	90831-09-02 00:29 G	34896645.34	34896645.52	34896645.73	0.0089	0.0038
Venus	90832-04-14 13:41 G	34896870.89	34896871.07	34896871.26	0.0089	0.0048
Venus	90832-11-26 02:24 G	34897096.46	34897096.60	34897096.79	0.0089	0.0059
Venus	90833-07-09 15:36 G	34897322.03	34897322.15	34897322.30	0.0089	0.0069
Venus	90834-02-20 04:34 G	34897547.60	34897547.69	34897547.80	0.0089	0.0079
Earth	90835-01-27 18:29 G	34897889.17	34897889.27	34897889.40	0.0089	0.0079
Moon	90835-01-27 22:19 G	34897889.29	34897889.43	34897889.57	0.0089	0.0074 *
Moon	90836-01-30 03:36 G	34898256.49	34898256.65	34898256.84	0.0089	0.0065
Earth	90836-01-30 07:12 G	34898256.63	34898256.80	34898257.01	0.0089	0.0060 *
Earth	90837-01-31 19:55 G	34898624.11	34898624.33	34898624.57	0.0089	0.0041
Moon	90837-01-31 22:48 G	34898624.22	34898624.45	34898624.70	0.0089	0.0036 *
Moon	90838-02-03 06:14 G	34898991.53	34898991.76	34898992.01	0.0089	0.0027
Earth	90838-02-03 08:24 G	34898991.61	34898991.85	34898992.11	0.0089	0.0022 *
Earth	90839-02-05 21:07 G	34899359.12	34899359.38	34899359.64	0.0089	0.0003
Moon	90839-02-05 22:34 G	34899359.17	34899359.44	34899359.71	0.0089	0.0002 *
Earth	90840-02-08 09:22 G	34899726.64	34899726.89	34899727.15	0.0089	0.0016
Moon	90840-02-08 09:50 G	34899726.66	34899726.91	34899727.16	0.0089	0.0011 *
Moon	90841-02-09 20:10 G	34900094.11	34900094.34	34900094.59	0.0089	0.0039
Earth	90841-02-09 21:22 G	34900094.17	34900094.39	34900094.64	0.0089	0.0035 *
Earth	90842-02-12 09:36 G	34900461.72	34900461.90	34900462.13	0.0089	0.0054
Moon	90842-02-12 12:00 G	34900461.80	34900462.00	34900462.22	0.0089	0.0049 *
Moon	90843-02-14 18:58 G	34900829.17	34900829.29	34900829.43	0.0089	0.0077
Earth	90843-02-14 22:34 G	34900829.29	34900829.44	34900829.59	0.0089	0.0072 *
Moon	90844-02-17 13:41 G	34901197.04	34901197.07	34901197.15	0.0089	0.0087
Mercury	90868-05-10 15:22 G	34910046.13	34910046.14	34910046.16	0.0090	0.0089

Mercury	90868-08-06 18:29 G	34910134.20	34910134.27	34910134.39	0.0090	0.0079
Mercury	90868-11-02 22:05 G	34910222.32	34910222.42	34910222.57	0.0090	0.0068
Mercury	90869-01-30 01:55 G	34910310.44	34910310.58	34910310.74	0.0090	0.0057
Mercury	90869-04-28 05:31 G	34910398.57	34910398.73	34910398.90	0.0090	0.0046
Mercury	90869-07-25 09:07 G	34910486.71	34910486.88	34910487.06	0.0090	0.0035
Mercury	90869-10-21 12:43 G	34910574.85	34910575.03	34910575.22	0.0090	0.0024
Mercury	90870-01-17 16:19 G	34910662.99	34910663.18	34910663.37	0.0090	0.0013
Mercury	90870-04-15 19:55 G	34910751.14	34910751.33	34910751.52	0.0090	0.0003
Mercury	90870-07-12 23:17 G	34910839.28	34910839.47	34910839.66	0.0090	0.0009
Mercury	90870-10-09 02:38 G	34910927.43	34910927.61	34910927.80	0.0090	0.0020
Mercury	90871-01-05 06:14 G	34911015.58	34911015.76	34911015.94	0.0090	0.0030
Mercury	90871-04-03 09:36 G	34911103.74	34911103.90	34911104.07	0.0090	0.0041
Mercury	90871-06-30 12:58 G	34911191.90	34911192.04	34911192.20	0.0090	0.0052
Mercury	90871-09-26 16:34 G	34911280.06	34911280.19	34911280.33	0.0090	0.0062
Mercury	90871-12-23 19:41 G	34911368.23	34911368.32	34911368.45	0.0090	0.0073
Mercury	90872-03-20 23:31 G	34911456.41	34911456.48	34911456.55	0.0090	0.0083
Mars	90872-04-26 12:43 G	34911492.75	34911493.03	34911493.31	0.0090	0.0018
Venus	90905-10-08 04:05 G	34923709.59	34923709.67	34923709.77	0.0089	0.0080
Venus	90906-05-21 16:48 G	34923935.09	34923935.20	34923935.35	0.0089	0.0070
Venus	90907-01-02 05:46 G	34924160.60	34924160.74	34924160.92	0.0089	0.0060
Venus	90907-08-15 18:58 G	34924386.11	34924386.29	34924386.48	0.0089	0.0049
Venus	90908-03-28 07:41 G	34924611.64	34924611.82	34924612.04	0.0089	0.0039
Venus	90908-11-08 21:07 G	34924837.18	34924837.38	34924837.59	0.0089	0.0028
Venus	90909-06-22 10:05 G	34925062.71	34925062.92	34925063.14	0.0089	0.0018
Venus	90910-02-02 23:17 G	34925288.25	34925288.47	34925288.69	0.0089	0.0007
Venus	90910-09-16 12:14 G	34925513.79	34925514.01	34925514.23	0.0089	0.0004
Venus	90911-04-30 01:26 G	34925739.34	34925739.56	34925739.78	0.0089	0.0014
Venus	90911-12-11 14:24 G	34925964.90	34925965.10	34925965.32	0.0089	0.0025
Venus	90912-07-24 03:22 G	34926190.45	34926190.64	34926190.85	0.0089	0.0036
Venus	90913-03-06 16:19 G	34926416.01	34926416.18	34926416.38	0.0089	0.0046

Venus	90913-10-18 05:17 G	34926641.57	34926641.72	34926641.91	0.0089	0.0057
Venus	90914-05-31 18:43 G	34926867.15	34926867.28	34926867.43	0.0089	0.0067
Venus	90915-01-12 07:55 G	34927092.73	34927092.83	34927092.94	0.0089	0.0077
Moon	90915-07-26 01:41 G	34927287.50	34927287.57	34927287.66	0.0089	0.0084
Earth	90915-07-26 04:34 G	34927287.66	34927287.69	34927287.79	0.0089	0.0086 *
Venus	90915-08-25 20:24 G	34927318.34	34927318.35	34927318.41	0.0089	0.0088
Earth	90916-07-27 15:50 G	34927655.00	34927655.16	34927655.33	0.0089	0.0067
Moon	90916-07-27 19:12 G	34927655.16	34927655.30	34927655.47	0.0089	0.0070 *
Moon	90917-07-29 23:31 G	34928022.28	34928022.48	34928022.71	0.0089	0.0047
Earth	90917-07-30 02:38 G	34928022.41	34928022.61	34928022.84	0.0089	0.0049 *
Earth	90918-08-01 13:26 G	34928389.83	34928390.06	34928390.31	0.0089	0.0030
Moon	90918-08-01 15:36 G	34928389.92	34928390.15	34928390.41	0.0089	0.0033 *
Moon	90919-08-03 22:48 G	34928757.21	34928757.45	34928757.71	0.0089	0.0010
Earth	90919-08-04 00:29 G	34928757.27	34928757.52	34928757.77	0.0089	0.0012 *
Moon	90920-08-05 11:02 G	34929124.70	34929124.96	34929125.23	0.0088	0.0005
Earth	90920-08-05 11:17 G	34929124.72	34929124.97	34929125.23	0.0088	0.0007 *
Earth	90921-08-07 21:50 G	34929492.18	34929492.41	34929492.67	0.0088	0.0026
Moon	90921-08-07 23:17 G	34929492.25	34929492.47	34929492.72	0.0088	0.0028 *
Moon	90922-08-10 06:29 G	34929859.56	34929859.77	34929860.02	0.0088	0.0041
Earth	90922-08-10 08:53 G	34929859.66	34929859.87	34929860.10	0.0088	0.0044 *
Earth	90923-08-12 19:26 G	34930227.16	34930227.31	34930227.52	0.0088	0.0063
Moon	90923-08-12 23:17 G	34930227.31	34930227.47	34930227.65	0.0088	0.0065 *
Moon	90924-08-14 03:22 G	34930594.54	34930594.64	34930594.78	0.0088	0.0079
Earth	90924-08-14 06:58 G	34930594.70	34930594.79	34930594.91	0.0088	0.0081 *
Mercury	90949-08-18 11:46 G	34939729.96	34939729.99	34939730.04	0.0088	0.0083
Mercury	90949-11-14 13:12 G	34939817.99	34939818.05	34939818.12	0.0088	0.0076
Mercury	90950-02-10 14:24 G	34939906.03	34939906.10	34939906.19	0.0088	0.0069
Mercury	90950-05-09 15:50 G	34939994.07	34939994.16	34939994.26	0.0088	0.0062
Mercury	90950-08-05 17:02 G	34940082.11	34940082.21	34940082.32	0.0088	0.0055
Mercury	90950-11-01 18:29 G	34940170.16	34940170.27	34940170.39	0.0088	0.0048

Mercury	90951-01-28 19:41 G	34940258.21	34940258.32	34940258.45	0.0088	0.0041
Mercury	90951-04-26 21:07 G	34940346.26	34940346.38	34940346.51	0.0088	0.0033
Mercury	90951-07-23 22:34 G	34940434.31	34940434.44	34940434.57	0.0088	0.0026
Mercury	90951-10-19 23:46 G	34940522.36	34940522.49	34940522.63	0.0088	0.0019
Mercury	90952-01-16 01:12 G	34940610.42	34940610.55	34940610.68	0.0088	0.0012
Mercury	90952-04-13 02:24 G	34940698.47	34940698.60	34940698.74	0.0088	0.0005
Mercury	90952-07-10 03:50 G	34940786.53	34940786.66	34940786.80	0.0088	0.0003
Mercury	90952-10-06 05:17 G	34940874.58	34940874.72	34940874.85	0.0088	0.0010
Mercury	90953-01-02 06:29 G	34940962.64	34940962.77	34940962.90	0.0088	0.0017
Mercury	90953-03-31 07:55 G	34941050.70	34941050.83	34941050.96	0.0088	0.0024
Mercury	90953-06-27 09:07 G	34941138.76	34941138.88	34941139.01	0.0088	0.0031
Mercury	90953-09-23 10:19 G	34941226.82	34941226.93	34941227.06	0.0088	0.0039
Mercury	90953-12-20 11:46 G	34941314.88	34941314.99	34941315.11	0.0088	0.0046
Mars	90954-02-28 14:53 G	34941384.78	34941385.12	34941385.48	0.0088	0.0008
Mercury	90954-03-18 13:12 G	34941402.95	34941403.05	34941403.16	0.0088	0.0053
Mercury	90954-06-14 14:24 G	34941491.01	34941491.10	34941491.21	0.0088	0.0061
Mercury	90954-09-10 15:50 G	34941579.08	34941579.16	34941579.25	0.0088	0.0068
Mercury	90954-12-07 17:17 G	34941667.16	34941667.22	34941667.30	0.0088	0.0075
Mercury	90955-03-05 18:43 G	34941755.24	34941755.28	34941755.33	0.0088	0.0082
Venus	90989-02-18 13:12 G	34954158.96	34954159.05	34954159.15	0.0088	0.0080
Venus	90989-10-02 02:10 G	34954384.47	34954384.59	34954384.74	0.0088	0.0069
Venus	90990-05-15 15:07 G	34954609.98	34954610.13	34954610.31	0.0088	0.0059
Venus	90990-12-27 04:19 G	34954835.51	34954835.68	34954835.87	0.0088	0.0049
Venus	90991-08-09 17:17 G	34955061.03	34955061.22	34955061.43	0.0088	0.0038
Venus	90992-03-22 06:29 G	34955286.56	34955286.77	34955286.98	0.0088	0.0028
Venus	90992-11-02 19:41 G	34955512.11	34955512.32	34955512.54	0.0088	0.0017
Venus	90993-06-16 08:38 G	34955737.64	34955737.86	34955738.08	0.0088	0.0007
Venus	90994-01-27 21:36 G	34955963.18	34955963.40	34955963.62	0.0089	0.0004
Venus	90994-09-10 10:34 G	34956188.72	34956188.94	34956189.16	0.0089	0.0014
Venus	90995-04-23 23:17 G	34956414.27	34956414.47	34956414.69	0.0089	0.0025

Venus	90995-12-05 12:29 G	34956639.82	34956640.02	34956640.23	0.0089	0.0035
Venus	90996-07-18 01:12 G	34956865.37	34956865.55	34956865.75	0.0089	0.0046
Venus	90997-02-28 14:10 G	34957090.93	34957091.09	34957091.27	0.0089	0.0056
Venus	90997-10-12 02:53 G	34957316.50	34957316.62	34957316.79	0.0089	0.0067
Venus	90998-05-25 15:50 G	34957542.07	34957542.16	34957542.29	0.0089	0.0077
Venus	90999-01-06 05:02 G	34957767.68	34957767.71	34957767.76	0.0089	0.0087
Moon	90999-01-28 00:43 G	34957789.46	34957789.53	34957789.65	0.0089	0.0082
Earth	90999-01-28 04:05 G	34957789.60	34957789.67	34957789.77	0.0089	0.0083 *
Earth	91000-01-30 16:19 G	34958157.03	34958157.18	34958157.38	0.0089	0.0065
Moon	91000-01-30 19:12 G	34958157.15	34958157.30	34958157.51	0.0089	0.0065 *

# 92ND MILLENNIUM CE

This is a list of transits visible from Neptune in the 92nd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Moon	91001-02-02 03:22 G	34958524.44	34958524.64	34958524.88	0.0089	0.0045		
Earth	91001-02-02 05:02 G	34958524.50	34958524.71	34958524.95	0.0089	0.0046 *		
Earth	91002-02-04 17:46 G	34958892.00	34958892.24	34958892.50	0.0089	0.0027		
Moon	91002-02-04 18:00 G	34958892.01	34958892.25	34958892.52	0.0089	0.0028 *		
Earth	91003-02-07 06:29 G	34959259.52	34959259.77	34959260.04	0.0089	0.0008		
Moon	91003-02-07 06:58 G	34959259.54	34959259.79	34959260.04	0.0089	0.0008 *		
Moon	91004-02-09 16:48 G	34959626.94	34959627.20	34959627.47	0.0089	0.0011		
Earth	91004-02-09 18:58 G	34959627.04	34959627.29	34959627.55	0.0089	0.0012 *		

Earth	91005-02-11 07:26 G	34959994.57	34959994.81	34959995.05	0.0089	0.0030
Moon	91005-02-11 10:05 G	34959994.69	34959994.92	34959995.16	0.0089	0.0031 *
Moon	91006-02-13 16:34 G	34960361.97	34960362.19	34960362.41	0.0089	0.0049
Earth	91006-02-13 19:41 G	34960362.11	34960362.32	34960362.54	0.0089	0.0049 *
Earth	91007-02-16 07:41 G	34960729.68	34960729.82	34960730.01	0.0089	0.0068
Moon	91007-02-16 11:31 G	34960729.83	34960729.98	34960730.16	0.0089	0.0068 *
Moon	91008-02-18 16:34 G	34961097.17	34961097.19	34961097.28	0.0089	0.0088
Earth	91008-02-18 19:55 G	34961097.30	34961097.33	34961097.41	0.0089	0.0087
Mercury	91033-02-06 14:10 G	34970217.03	34970217.09	34970217.18	0.0090	0.0083
Mercury	91033-05-05 17:46 G	34970305.14	34970305.24	34970305.37	0.0090	0.0072
Mercury	91033-08-01 21:36 G	34970393.26	34970393.40	34970393.54	0.0090	0.0061
Mercury	91033-10-29 01:12 G	34970481.39	34970481.55	34970481.71	0.0090	0.0050
Mercury	91034-01-25 04:19 G	34970569.53	34970569.68	34970569.87	0.0090	0.0040
Mercury	91034-04-23 08:10 G	34970657.66	34970657.84	34970658.03	0.0090	0.0029
Mercury	91034-07-20 11:46 G	34970745.80	34970745.99	34970746.18	0.0090	0.0018
Mercury	91034-10-16 15:22 G	34970833.95	34970834.14	34970834.33	0.0090	0.0007
Mercury	91035-01-12 18:43 G	34970922.09	34970922.28	34970922.47	0.0090	0.0004
Mercury	91035-04-10 22:19 G	34971010.24	34971010.43	34971010.62	0.0090	0.0015
Mercury	91035-07-08 01:41 G	34971098.39	34971098.57	34971098.76	0.0090	0.0026
Mercury	91035-10-04 05:17 G	34971186.55	34971186.72	34971186.89	0.0090	0.0036
Mars	91035-12-13 06:14 G	34971256.50	34971256.76	34971257.05	0.0090	0.0024
Mercury	91035-12-31 08:38 G	34971274.70	34971274.86	34971275.03	0.0090	0.0047
Mercury	91036-03-28 11:46 G	34971362.86	34971362.99	34971363.15	0.0090	0.0058
Mercury	91036-06-24 15:36 G	34971451.03	34971451.15	34971451.27	0.0090	0.0068
Mercury	91036-09-20 18:43 G	34971539.21	34971539.28	34971539.38	0.0090	0.0079
Mercury	91036-12-17 22:34 G	34971627.42	34971627.44	34971627.45	0.0090	0.0089
Mars	91037-11-05 19:12 G	34971950.27	34971950.30	34971950.33	0.0090	0.0089
Venus	91070-01-10 15:22 G	34983704.08	34983704.14	34983704.24	0.0089	0.0083
Venus	91070-08-24 04:05 G	34983929.57	34983929.67	34983929.82	0.0089	0.0073
Venus	91071-04-06 17:31 G	34984155.09	34984155.23	34984155.40	0.0089	0.0062

Venus	91071-11-18 06:14 G	34984380.60	34984380.76	34984380.96	0.0089	0.0052
Venus	91072-06-30 19:26 G	34984606.12	34984606.31	34984606.51	0.0089	0.0041
Venus	91073-02-11 08:10 G	34984831.65	34984831.84	34984832.06	0.0089	0.0031
Venus	91073-09-24 21:22 G	34985057.18	34985057.39	34985057.61	0.0089	0.0020
Venus	91074-05-08 10:34 G	34985282.72	34985282.94	34985283.16	0.0089	0.0010
Venus	91074-12-19 23:31 G	34985508.26	34985508.48	34985508.70	0.0089	0.0001
Venus	91075-08-02 12:29 G	34985733.80	34985734.02	34985734.24	0.0089	0.0012
Venus	91076-03-15 01:26 G	34985959.35	34985959.56	34985959.78	0.0089	0.0022
Venus	91076-10-26 14:24 G	34986184.90	34986185.10	34986185.31	0.0089	0.0033
Venus	91077-06-09 03:50 G	34986410.47	34986410.66	34986410.85	0.0089	0.0043
Venus	91078-01-20 16:34 G	34986636.03	34986636.19	34986636.38	0.0089	0.0054
Venus	91078-09-03 05:46 G	34986861.59	34986861.74	34986861.90	0.0089	0.0064
Venus	91079-04-16 18:29 G	34987087.18	34987087.27	34987087.41	0.0089	0.0075
Moon	91079-07-26 18:58 G	34987188.23	34987188.29	34987188.38	0.0089	0.0085
Venus	91079-11-28 07:55 G	34987312.78	34987312.83	34987312.90	0.0089	0.0085
Moon	91080-07-27 23:31 G	34987555.37	34987555.48	34987555.63	0.0089	0.0076
Earth	91080-07-28 02:10 G	34987555.47	34987555.59	34987555.77	0.0089	0.0072 *
Earth	91081-07-30 13:26 G	34987922.87	34987923.06	34987923.28	0.0089	0.0053
Moon	91081-07-30 15:22 G	34987922.94	34987923.14	34987923.38	0.0089	0.0049 *
Moon	91082-08-01 23:46 G	34988290.28	34988290.49	34988290.72	0.0089	0.0039
Earth	91082-08-02 00:00 G	34988290.28	34988290.50	34988290.75	0.0089	0.0035 *
Moon	91083-08-04 10:48 G	34988657.69	34988657.95	34988658.22	0.0089	0.0012
Earth	91083-08-04 11:02 G	34988657.72	34988657.96	34988658.22	0.0089	0.0016 *
Earth	91084-08-05 22:05 G	34989025.16	34989025.42	34989025.68	0.0089	0.0002
Moon	91084-08-05 23:46 G	34989025.24	34989025.49	34989025.74	0.0089	0.0002 *
Moon	91085-08-08 05:31 G	34989392.50	34989392.73	34989393.00	0.0088	0.0026
Earth	91085-08-08 08:53 G	34989392.62	34989392.87	34989393.12	0.0088	0.0021 *
Earth	91086-08-10 19:12 G	34989760.09	34989760.30	34989760.55	0.0088	0.0040
Moon	91086-08-10 22:19 G	34989760.22	34989760.43	34989760.68	0.0088	0.0036 *
Moon	91087-08-13 02:24 G	34990127.44	34990127.60	34990127.80	0.0088	0.0062



Earth	91087-08-13 06:14 G	34990127.58	34990127.76	34990127.97	0.0088	0.0058	*
Earth	91088-08-14 16:48 G	34990495.10	34990495.20	34990495.36	0.0088	0.0077	
Moon	91088-08-14 20:24 G	34990495.21	34990495.35	34990495.51	0.0088	0.0072	*
Mercury	91114-02-18 10:34 G	34999812.92	34999812.94	34999812.96	0.0088	0.0086	
Mercury	91114-05-17 11:46 G	34999900.94	34999900.99	34999901.05	0.0088	0.0079	
Mercury	91114-08-13 12:58 G	34999988.97	34999989.04	34999989.12	0.0088	0.0072	
Mercury	91114-11-09 14:24 G	35000077.01	35000077.10	35000077.19	0.0088	0.0065	
Mercury	91115-02-05 15:36 G	35000165.06	35000165.15	35000165.25	0.0088	0.0058	
Mercury	91115-05-04 17:02 G	35000253.10	35000253.21	35000253.32	0.0088	0.0051	
Mercury	91115-07-31 18:14 G	35000341.15	35000341.26	35000341.38	0.0088	0.0044	
Mercury	91115-10-27 19:26 G	35000429.20	35000429.31	35000429.44	0.0088	0.0037	
Mercury	91116-01-23 20:53 G	35000517.25	35000517.37	35000517.50	0.0088	0.0030	
Mercury	91116-04-20 22:19 G	35000605.30	35000605.43	35000605.56	0.0088	0.0022	
Mercury	91116-07-17 23:31 G	35000693.35	35000693.48	35000693.62	0.0088	0.0016	
Mercury	91116-10-14 00:58 G	35000781.41	35000781.54	35000781.67	0.0088	0.0008	
Mercury	91117-01-10 02:24 G	35000869.46	35000869.60	35000869.73	0.0088	0.0003	
Mercury	91117-04-08 03:36 G	35000957.52	35000957.65	35000957.79	0.0088	0.0006	
Mercury	91117-07-05 04:48 G	35001045.57	35001045.70	35001045.84	0.0088	0.0014	
Mercury	91117-10-01 06:14 G	35001133.63	35001133.76	35001133.89	0.0088	0.0021	
Mars	91117-10-13 23:02 G	35001146.16	35001146.46	35001146.78	0.0088	0.0041	
Mercury	91117-12-28 07:41 G	35001221.69	35001221.82	35001221.95	0.0088	0.0028	
Mercury	91118-03-26 09:07 G	35001309.75	35001309.88	35001310.00	0.0088	0.0035	
Mercury	91118-06-22 10:05 G	35001397.81	35001397.92	35001398.05	0.0088	0.0043	
Mercury	91118-09-18 11:31 G	35001485.88	35001485.98	35001486.10	0.0088	0.0050	
Mercury	91118-12-15 12:58 G	35001573.94	35001574.04	35001574.15	0.0088	0.0057	
Mercury	91119-03-13 14:24 G	35001662.01	35001662.10	35001662.20	0.0088	0.0064	
Mercury	91119-06-09 15:36 G	35001750.08	35001750.15	35001750.24	0.0088	0.0072	
Mercury	91119-09-05 17:02 G	35001838.16	35001838.21	35001838.28	0.0088	0.0079	
Mercury	91119-12-02 18:29 G	35001926.25	35001926.27	35001926.30	0.0088	0.0086	
Venus	91153-05-25 00:00 G	35014153.43	35014153.50	35014153.59	0.0088	0.0083	

Venus	91154-01-05 12:43 G	35014378.93	35014379.03	35014379.18	0.0088	0.0073
Venus	91154-08-19 01:41 G	35014604.44	35014604.57	35014604.75	0.0088	0.0063
Venus	91155-04-01 15:07 G	35014829.96	35014830.13	35014830.32	0.0088	0.0052
Venus	91155-11-13 04:19 G	35015055.50	35015055.68	35015055.89	0.0088	0.0041
Venus	91156-06-25 17:31 G	35015281.03	35015281.23	35015281.44	0.0088	0.0031
Venus	91157-02-06 06:29 G	35015506.56	35015506.77	35015506.99	0.0088	0.0021
Venus	91157-09-19 19:41 G	35015732.10	35015732.32	35015732.54	0.0088	0.0010
Venus	91158-05-03 08:38 G	35015957.64	35015957.86	35015958.08	0.0088	0.0002
Venus	91158-12-14 21:36 G	35016183.19	35016183.40	35016183.63	0.0089	0.0012
Venus	91159-07-28 10:34 G	35016408.73	35016408.94	35016409.16	0.0089	0.0022
Venus	91160-03-09 23:17 G	35016634.28	35016634.47	35016634.69	0.0089	0.0033
Venus	91160-10-21 12:29 G	35016859.84	35016860.02	35016860.22	0.0089	0.0043
Venus	91161-06-04 01:41 G	35017085.40	35017085.57	35017085.75	0.0089	0.0053
Venus	91162-01-15 14:10 G	35017310.96	35017311.09	35017311.26	0.0089	0.0064
Venus	91162-08-29 03:07 G	35017536.53	35017536.63	35017536.77	0.0089	0.0074
Earth	91163-01-29 12:43 G	35017690.02	35017690.03	35017690.10	0.0089	0.0088
Venus	91163-04-11 15:50 G	35017762.12	35017762.16	35017762.25	0.0089	0.0085
Moon	91164-02-01 00:14 G	35018057.36	35018057.51	35018057.70	0.0089	0.0065
Earth	91164-02-01 01:26 G	35018057.42	35018057.56	35018057.74	0.0089	0.0069 *
Earth	91165-02-02 14:10 G	35018424.89	35018425.09	35018425.32	0.0089	0.0050
Moon	91165-02-02 13:55 G	35018424.89	35018425.08	35018425.31	0.0089	0.0055 *
Earth	91166-02-05 03:07 G	35018792.39	35018792.63	35018792.87	0.0089	0.0031
Moon	91166-02-05 04:34 G	35018792.46	35018792.69	35018792.93	0.0089	0.0027 *
Moon	91167-02-07 13:12 G	35019159.80	35019160.05	35019160.33	0.0089	0.0017
Earth	91167-02-07 15:36 G	35019159.90	35019160.15	35019160.41	0.0089	0.0012 *
Earth	91168-02-10 04:05 G	35019527.42	35019527.67	35019527.94	0.0089	0.0007
Moon	91168-02-10 07:12 G	35019527.56	35019527.80	35019528.06	0.0089	0.0012 *
Moon	91169-02-11 13:12 G	35019894.80	35019895.05	35019895.31	0.0089	0.0021
Earth	91169-02-11 16:34 G	35019894.96	35019895.19	35019895.45	0.0089	0.0026 *
Earth	91170-02-14 04:48 G	35020262.50	35020262.70	35020262.95	0.0089	0.0045

Moon	91170-02-14 08:24 G	35020262.66	35020262.85	35020263.09	0.0089	0.0050	*
Moon	91171-02-16 14:10 G	35020629.92	35020630.09	35020630.30	0.0089	0.0059	
Earth	91171-02-16 17:17 G	35020630.07	35020630.22	35020630.43	0.0089	0.0064	*
Earth	91172-02-19 05:46 G	35020997.66	35020997.74	35020997.85	0.0089	0.0082	
Moon	91172-02-19 07:26 G	35020997.79	35020997.81	35020997.90	0.0089	0.0087	*
Mercury	91197-08-08 09:22 G	35030299.87	35030299.89	35030299.94	0.0090	0.0088	
Mercury	91197-11-04 13:12 G	35030387.96	35030388.05	35030388.15	0.0090	0.0077	
Mercury	91198-01-31 16:48 G	35030476.08	35030476.20	35030476.33	0.0090	0.0066	
Mercury	91198-04-29 20:24 G	35030564.20	35030564.35	35030564.50	0.0090	0.0055	
Mercury	91198-07-26 23:46 G	35030652.34	35030652.49	35030652.67	0.0090	0.0045	
Mercury	91198-10-23 03:22 G	35030740.47	35030740.64	35030740.83	0.0090	0.0034	
Mercury	91199-01-19 06:58 G	35030828.61	35030828.79	35030828.98	0.0090	0.0023	
Mercury	91199-04-17 10:34 G	35030916.75	35030916.94	35030917.13	0.0090	0.0012	
Mercury	91199-07-14 14:10 G	35031004.90	35031005.09	35031005.28	0.0090	0.0001	
Mars	91199-07-29 23:17 G	35031020.30	35031020.47	35031020.69	0.0090	0.0066	
Mercury	91199-10-10 17:31 G	35031093.05	35031093.23	35031093.42	0.0090	0.0010	
Mercury	91200-01-06 21:07 G	35031181.20	35031181.38	35031181.57	0.0090	0.0021	
Mercury	91200-04-04 00:29 G	35031269.35	35031269.52	35031269.70	0.0090	0.0031	
Mercury	91200-07-01 04:05 G	35031357.51	35031357.67	35031357.84	0.0090	0.0042	
Mercury	91200-09-27 07:12 G	35031445.66	35031445.80	35031445.97	0.0090	0.0053	
Mercury	91200-12-24 10:34 G	35031533.83	35031533.94	35031534.09	0.0090	0.0064	
Mercury	91201-03-22 14:10 G	35031622.00	35031622.09	35031622.21	0.0090	0.0074	
Mercury	91201-06-18 17:31 G	35031710.19	35031710.23	35031710.31	0.0090	0.0085	
Mars	91201-06-22 12:14 G	35031713.78	35031714.01	35031714.26	0.0090	0.0047	
Venus	91234-04-15 02:38 G	35043698.58	35043698.61	35043698.69	0.0089	0.0086	
Venus	91234-11-26 15:50 G	35043924.06	35043924.16	35043924.28	0.0089	0.0076	
Venus	91235-07-10 04:34 G	35044149.56	35044149.69	35044149.86	0.0089	0.0065	
Venus	91236-02-20 17:17 G	35044375.07	35044375.22	35044375.42	0.0089	0.0055	
Venus	91236-10-03 06:29 G	35044600.59	35044600.77	35044600.97	0.0089	0.0044	
Venus	91237-05-16 19:26 G	35044826.13	35044826.31	35044826.53	0.0089	0.0034	

Venus	91237-12-28 08:38 G	35045051.65	35045051.86	35045052.08	0.0089	0.0023
Venus	91238-08-10 21:36 G	35045277.19	35045277.40	35045277.62	0.0089	0.0013
Venus	91239-03-24 10:34 G	35045502.73	35045502.94	35045503.17	0.0089	0.0003
Venus	91239-11-04 23:31 G	35045728.27	35045728.48	35045728.71	0.0089	0.0009
Venus	91240-06-17 12:29 G	35045953.82	35045954.02	35045954.25	0.0089	0.0020
Venus	91241-01-29 01:41 G	35046179.36	35046179.57	35046179.78	0.0089	0.0030
Venus	91241-09-11 14:24 G	35046404.92	35046405.10	35046405.31	0.0089	0.0041
Venus	91242-04-25 03:50 G	35046630.48	35046630.66	35046630.84	0.0089	0.0051
Venus	91242-12-06 16:34 G	35046856.05	35046856.19	35046856.36	0.0089	0.0062
Venus	91243-07-20 05:46 G	35047081.62	35047081.74	35047081.88	0.0089	0.0072
Venus	91244-03-01 18:29 G	35047307.22	35047307.27	35047307.37	0.0089	0.0083
Earth	91244-07-28 13:12 G	35047455.94	35047456.05	35047456.20	0.0089	0.0076
Moon	91244-07-28 14:38 G	35047456.00	35047456.11	35047456.28	0.0089	0.0075 *
Moon	91245-07-30 23:46 G	35047823.32	35047823.49	35047823.69	0.0089	0.0059
Earth	91245-07-31 00:00 G	35047823.33	35047823.50	35047823.72	0.0089	0.0058 *
Moon	91246-08-02 09:36 G	35048190.68	35048190.90	35048191.16	0.0089	0.0039
Earth	91246-08-02 11:17 G	35048190.75	35048190.97	35048191.21	0.0089	0.0039 *
Earth	91247-08-04 22:05 G	35048558.18	35048558.42	35048558.68	0.0089	0.0020
Moon	91247-08-05 00:00 G	35048558.27	35048558.50	35048558.75	0.0089	0.0022 *
Moon	91248-08-06 06:00 G	35048925.49	35048925.75	35048926.01	0.0089	0.0001
Earth	91248-08-06 09:07 G	35048925.62	35048925.88	35048926.13	0.0089	0.0002 *
Earth	91249-08-08 19:41 G	35049293.07	35049293.32	35049293.58	0.0088	0.0017
Moon	91249-08-08 23:17 G	35049293.22	35049293.47	35049293.72	0.0088	0.0016 *
Moon	91250-08-11 02:53 G	35049660.40	35049660.62	35049660.86	0.0088	0.0037
Earth	91250-08-11 06:29 G	35049660.54	35049660.77	35049661.01	0.0088	0.0035 *
Earth	91251-08-13 16:48 G	35050028.02	35050028.20	35050028.43	0.0088	0.0054
Moon	91251-08-13 20:10 G	35050028.15	35050028.34	35050028.58	0.0088	0.0052 *
Moon	91252-08-15 01:55 G	35050395.45	35050395.58	35050395.73	0.0088	0.0073
Earth	91252-08-15 03:36 G	35050395.53	35050395.65	35050395.83	0.0088	0.0072 *
Moon	91253-08-17 15:50 G	35050763.15	35050763.16	35050763.22	0.0088	0.0088

Saturn	91270-07-14 05:31 G	35056937.34	35056937.73	35056938.16	0.0088	0.0071
Mercury	91278-11-15 10:05 G	35059983.89	35059983.92	35059983.97	0.0088	0.0083
Mercury	91279-02-11 11:17 G	35060071.92	35060071.97	35060072.05	0.0088	0.0076
Mercury	91279-05-10 12:43 G	35060159.96	35060160.03	35060160.12	0.0088	0.0069
Mercury	91279-08-06 13:55 G	35060248.00	35060248.08	35060248.19	0.0088	0.0062
Mercury	91279-11-02 15:22 G	35060336.04	35060336.14	35060336.25	0.0088	0.0054
Mercury	91280-01-29 16:48 G	35060424.09	35060424.20	35060424.31	0.0088	0.0047
Mercury	91280-04-26 18:14 G	35060512.14	35060512.26	35060512.37	0.0088	0.0040
Mercury	91280-07-23 19:26 G	35060600.19	35060600.31	35060600.43	0.0088	0.0033
Mercury	91280-10-19 20:38 G	35060688.24	35060688.36	35060688.49	0.0088	0.0026
Mercury	91281-01-15 22:05 G	35060776.29	35060776.42	35060776.55	0.0088	0.0019
Mercury	91281-04-13 23:17 G	35060864.34	35060864.47	35060864.61	0.0088	0.0012
Mercury	91281-07-11 00:43 G	35060952.40	35060952.53	35060952.67	0.0088	0.0004
Mercury	91281-10-07 02:10 G	35061040.45	35061040.59	35061040.72	0.0088	0.0004
Mercury	91282-01-03 03:22 G	35061128.51	35061128.64	35061128.78	0.0088	0.0010
Mercury	91282-04-01 04:48 G	35061216.57	35061216.70	35061216.83	0.0088	0.0017
Mercury	91282-06-28 06:00 G	35061304.63	35061304.75	35061304.88	0.0088	0.0025
Mercury	91282-09-24 07:26 G	35061392.69	35061392.81	35061392.94	0.0088	0.0032
Mercury	91282-12-21 08:38 G	35061480.75	35061480.86	35061480.99	0.0088	0.0039
Mercury	91283-03-19 10:05 G	35061568.81	35061568.92	35061569.04	0.0088	0.0046
Mars	91283-04-23 17:46 G	35061603.96	35061604.24	35061604.57	0.0088	0.0042
Mercury	91283-06-15 11:17 G	35061656.87	35061656.97	35061657.09	0.0088	0.0054
Mercury	91283-09-11 12:43 G	35061744.94	35061745.03	35061745.14	0.0088	0.0061
Mercury	91283-12-08 14:10 G	35061833.01	35061833.09	35061833.18	0.0088	0.0068
Mercury	91284-03-05 15:36 G	35061921.08	35061921.15	35061921.22	0.0088	0.0075
Mercury	91284-06-01 16:34 G	35062009.17	35062009.19	35062009.25	0.0088	0.0083
Venus	91317-08-27 10:34 G	35074147.91	35074147.94	35074148.01	0.0088	0.0086
Venus	91318-04-09 23:31 G	35074373.39	35074373.48	35074373.62	0.0088	0.0076
Venus	91318-11-21 13:12 G	35074598.91	35074599.05	35074599.20	0.0088	0.0065
Venus	91319-07-05 02:10 G	35074824.43	35074824.59	35074824.77	0.0088	0.0054

Venus	91320-02-15 14:53 G	35075049.95	35075050.12	35075050.33	0.0088	0.0045
Venus	91320-09-28 04:19 G	35075275.48	35075275.68	35075275.89	0.0088	0.0034
Venus	91321-05-11 17:17 G	35075501.02	35075501.22	35075501.45	0.0088	0.0024
Venus	91321-12-23 06:29 G	35075726.56	35075726.77	35075727.00	0.0088	0.0013
Venus	91322-08-05 19:41 G	35075952.10	35075952.32	35075952.54	0.0088	0.0002
Venus	91323-03-19 08:38 G	35076177.64	35076177.86	35076178.08	0.0088	0.0009
Venus	91323-10-30 21:50 G	35076403.20	35076403.41	35076403.63	0.0089	0.0019
Venus	91324-06-12 10:34 G	35076628.74	35076628.94	35076629.16	0.0089	0.0030
Venus	91325-01-23 23:31 G	35076854.29	35076854.48	35076854.69	0.0089	0.0040
Venus	91325-09-06 12:14 G	35077079.85	35077080.01	35077080.21	0.0089	0.0051
Venus	91326-04-20 01:12 G	35077305.41	35077305.55	35077305.73	0.0089	0.0061
Venus	91326-12-01 14:38 G	35077530.98	35077531.11	35077531.24	0.0089	0.0071
Venus	91327-07-15 03:07 G	35077756.57	35077756.63	35077756.73	0.0089	0.0082
Moon	91328-02-01 09:36 G	35077957.75	35077957.90	35077958.07	0.0089	0.0071
Earth	91328-02-01 09:50 G	35077957.80	35077957.91	35077958.08	0.0089	0.0074 *
Earth	91329-02-02 22:34 G	35078325.26	35078325.44	35078325.66	0.0089	0.0055
Moon	91329-02-03 00:14 G	35078325.34	35078325.51	35078325.72	0.0089	0.0057 *
Moon	91330-02-05 08:24 G	35078692.61	35078692.85	35078693.10	0.0089	0.0033
Earth	91330-02-05 11:17 G	35078692.75	35078692.97	35078693.22	0.0089	0.0036 *
Earth	91331-02-08 00:00 G	35079060.25	35079060.50	35079060.76	0.0089	0.0017
Moon	91331-02-08 03:07 G	35079060.38	35079060.63	35079060.88	0.0089	0.0019 *
Moon	91332-02-10 08:53 G	35079427.61	35079427.87	35079428.13	0.0089	0.0004
Earth	91332-02-10 12:29 G	35079427.77	35079428.02	35079428.28	0.0089	0.0002 *
Earth	91333-02-12 00:58 G	35079795.30	35079795.54	35079795.80	0.0089	0.0021
Moon	91333-02-12 04:19 G	35079795.43	35079795.68	35079795.95	0.0089	0.0019 *
Moon	91334-02-14 10:48 G	35080162.74	35080162.95	35080163.19	0.0089	0.0041
Earth	91334-02-14 13:26 G	35080162.85	35080163.06	35080163.31	0.0089	0.0040 *
Earth	91335-02-17 01:41 G	35080530.40	35080530.57	35080530.79	0.0089	0.0059
Moon	91335-02-17 03:50 G	35080530.48	35080530.66	35080530.89	0.0089	0.0058 *
Moon	91336-02-19 13:55 G	35080897.99	35080898.08	35080898.21	0.0089	0.0079

Earth	91336-02-19 14:38 G	35080897.99	35080898.11	35080898.24	0.0089	0.0077	*
Mercury	91362-05-06 07:55 G	35090470.78	35090470.83	35090470.92	0.0090	0.0083	
Mercury	91362-08-02 11:31 G	35090558.89	35090558.98	35090559.11	0.0090	0.0072	
Mercury	91362-10-29 15:07 G	35090647.01	35090647.13	35090647.29	0.0090	0.0061	
Mercury	91363-01-25 18:58 G	35090735.14	35090735.29	35090735.46	0.0090	0.0050	
Mercury	91363-04-23 22:34 G	35090823.27	35090823.44	35090823.62	0.0090	0.0039	
Mercury	91363-07-21 02:10 G	35090911.41	35090911.59	35090911.78	0.0090	0.0028	
Mercury	91363-10-17 05:46 G	35090999.55	35090999.74	35090999.93	0.0090	0.0017	
Mercury	91364-01-13 09:22 G	35091087.70	35091087.89	35091088.08	0.0090	0.0006	
Mercury	91364-04-10 12:58 G	35091175.85	35091176.04	35091176.23	0.0090	0.0005	
Mercury	91364-07-07 16:19 G	35091264.00	35091264.18	35091264.37	0.0090	0.0015	
Mercury	91364-10-03 19:55 G	35091352.15	35091352.33	35091352.51	0.0090	0.0026	
Mercury	91364-12-30 23:17 G	35091440.30	35091440.47	35091440.65	0.0090	0.0037	
Mars	91365-02-06 05:02 G	35091477.43	35091477.71	35091478.00	0.0090	0.0005	
Mercury	91365-03-29 02:24 G	35091528.46	35091528.60	35091528.78	0.0090	0.0048	
Mercury	91365-06-25 06:14 G	35091616.62	35091616.76	35091616.91	0.0090	0.0058	
Mercury	91365-09-21 09:22 G	35091704.79	35091704.89	35091705.03	0.0090	0.0069	
Mercury	91365-12-18 12:43 G	35091792.96	35091793.03	35091793.14	0.0090	0.0080	
Venus	91398-07-18 13:41 G	35103693.07	35103693.07	35103693.10	0.0089	0.0089	
Venus	91399-03-01 02:38 G	35103918.52	35103918.61	35103918.72	0.0089	0.0078	
Venus	91399-10-12 15:22 G	35104144.02	35104144.14	35104144.30	0.0089	0.0068	
Venus	91400-05-26 04:48 G	35104369.54	35104369.70	35104369.87	0.0089	0.0057	
Venus	91401-01-06 17:31 G	35104595.06	35104595.23	35104595.43	0.0089	0.0047	
Venus	91401-08-20 06:43 G	35104820.58	35104820.78	35104820.98	0.0089	0.0036	
Venus	91402-04-02 19:26 G	35105046.11	35105046.31	35105046.53	0.0089	0.0026	
Venus	91402-11-14 08:38 G	35105271.65	35105271.86	35105272.08	0.0089	0.0015	
Venus	91403-06-27 21:36 G	35105497.18	35105497.40	35105497.62	0.0089	0.0005	
Venus	91404-02-08 10:34 G	35105722.72	35105722.94	35105723.16	0.0089	0.0006	
Venus	91404-09-20 23:17 G	35105948.26	35105948.47	35105948.69	0.0089	0.0017	
Venus	91405-05-04 12:29 G	35106173.81	35106174.02	35106174.23	0.0089	0.0027	

Venus	91405-12-16 01:12 G	35106399.36	35106399.55	35106399.76	0.0089	0.0038
Venus	91406-07-29 14:24 G	35106624.92	35106625.10	35106625.29	0.0089	0.0048
Venus	91407-03-12 03:07 G	35106850.48	35106850.63	35106850.81	0.0089	0.0059
Venus	91407-10-23 16:19 G	35107076.05	35107076.18	35107076.32	0.0089	0.0069
Venus	91408-06-05 05:02 G	35107301.64	35107301.71	35107301.83	0.0089	0.0080
Moon	91408-07-29 23:46 G	35107356.37	35107356.49	35107356.62	0.0089	0.0076
Earth	91408-07-29 23:31 G	35107356.38	35107356.48	35107356.59	0.0089	0.0080 *
Moon	91409-08-01 08:38 G	35107723.71	35107723.86	35107724.06	0.0089	0.0067
Earth	91409-08-01 10:05 G	35107723.76	35107723.92	35107724.12	0.0089	0.0062 *
Earth	91410-08-03 20:53 G	35108091.17	35108091.37	35108091.61	0.0089	0.0044
Moon	91410-08-03 23:46 G	35108091.28	35108091.49	35108091.73	0.0089	0.0039 *
Moon	91411-08-06 04:48 G	35108458.47	35108458.70	35108458.96	0.0089	0.0030
Earth	91411-08-06 08:10 G	35108458.60	35108458.84	35108459.09	0.0089	0.0025 *
Earth	91412-08-07 19:12 G	35108826.04	35108826.30	35108826.55	0.0089	0.0006
Moon	91412-08-07 22:48 G	35108826.19	35108826.45	35108826.70	0.0089	0.0002 *
Moon	91413-08-10 02:24 G	35109193.36	35109193.60	35109193.86	0.0088	0.0008
Earth	91413-08-10 05:46 G	35109193.50	35109193.74	35109194.00	0.0088	0.0013 *
Earth	91414-08-12 16:34 G	35109560.96	35109561.19	35109561.44	0.0088	0.0031
Moon	91414-08-12 19:26 G	35109561.08	35109561.31	35109561.56	0.0088	0.0035 *
Moon	91415-08-15 01:12 G	35109928.35	35109928.55	35109928.78	0.0088	0.0045
Earth	91415-08-15 03:36 G	35109928.44	35109928.65	35109928.87	0.0088	0.0049 *
Earth	91416-08-16 14:24 G	35110295.93	35110296.10	35110296.27	0.0088	0.0067
Moon	91416-08-16 14:24 G	35110295.97	35110296.10	35110296.28	0.0088	0.0072 *
Moon	91417-08-19 01:12 G	35110663.48	35110663.55	35110663.67	0.0088	0.0082
Earth	91417-08-19 00:29 G	35110663.49	35110663.52	35110663.62	0.0088	0.0086 *
Mercury	91443-05-18 08:38 G	35120066.84	35120066.86	35120066.89	0.0088	0.0086
Mercury	91443-08-14 10:05 G	35120154.86	35120154.92	35120154.97	0.0088	0.0079
Mercury	91443-11-10 11:17 G	35120242.90	35120242.97	35120243.04	0.0088	0.0072
Mercury	91444-02-06 12:29 G	35120330.94	35120331.02	35120331.11	0.0088	0.0065
Mercury	91444-05-04 13:55 G	35120418.98	35120419.08	35120419.18	0.0088	0.0058



Mercury	91444-07-31 15:07 G	35120507.02	35120507.13	35120507.24	0.0088	0.0051
Mercury	91444-10-27 16:19 G	35120595.07	35120595.18	35120595.30	0.0088	0.0044
Mercury	91445-01-23 17:46 G	35120683.12	35120683.24	35120683.36	0.0088	0.0037
Mercury	91445-04-21 18:58 G	35120771.17	35120771.29	35120771.42	0.0088	0.0030
Mercury	91445-07-18 20:24 G	35120859.22	35120859.35	35120859.48	0.0088	0.0023
Mercury	91445-10-14 21:36 G	35120947.27	35120947.40	35120947.54	0.0088	0.0016
Mercury	91446-01-10 23:02 G	35121035.33	35121035.46	35121035.59	0.0088	0.0008
Mercury	91446-04-09 00:29 G	35121123.38	35121123.52	35121123.65	0.0088	0.0003
Mercury	91446-07-06 01:41 G	35121211.44	35121211.57	35121211.71	0.0088	0.0006
Mercury	91446-10-02 02:53 G	35121299.49	35121299.62	35121299.76	0.0088	0.0014
Mars	91446-12-07 00:29 G	35121365.18	35121365.52	35121365.88	0.0088	0.0008
Mercury	91446-12-29 04:19 G	35121387.55	35121387.68	35121387.82	0.0088	0.0020
Mercury	91447-03-27 05:46 G	35121475.61	35121475.74	35121475.87	0.0088	0.0028
Mercury	91447-06-23 06:58 G	35121563.67	35121563.79	35121563.92	0.0088	0.0035
Mercury	91447-09-19 08:24 G	35121651.73	35121651.85	35121651.97	0.0088	0.0042
Mercury	91447-12-16 09:36 G	35121739.80	35121739.90	35121740.02	0.0088	0.0050
Mercury	91448-03-13 11:02 G	35121827.86	35121827.96	35121828.07	0.0088	0.0057
Mercury	91448-06-09 12:29 G	35121915.93	35121916.02	35121916.11	0.0088	0.0064
Mercury	91448-09-05 13:55 G	35122004.00	35122004.08	35122004.16	0.0088	0.0071
Mercury	91448-12-02 14:53 G	35122092.08	35122092.12	35122092.20	0.0088	0.0079
Mercury	91449-02-28 16:19 G	35122180.17	35122180.18	35122180.22	0.0088	0.0086
Venus	91482-07-13 10:05 G	35134367.84	35134367.92	35134368.04	0.0088	0.0079
Venus	91483-02-23 23:02 G	35134593.34	35134593.46	35134593.62	0.0088	0.0068
Venus	91483-10-07 12:29 G	35134818.86	35134819.02	35134819.20	0.0088	0.0058
Venus	91484-05-20 01:26 G	35135044.39	35135044.56	35135044.76	0.0088	0.0047
Venus	91484-12-31 14:38 G	35135269.92	35135270.11	35135270.32	0.0088	0.0037
Venus	91485-08-14 03:36 G	35135495.45	35135495.65	35135495.87	0.0088	0.0027
Venus	91486-03-27 16:48 G	35135720.99	35135721.20	35135721.42	0.0088	0.0016
Venus	91486-11-08 06:14 G	35135946.54	35135946.76	35135946.98	0.0088	0.0005
Venus	91487-06-21 19:12 G	35136172.08	35136172.30	35136172.52	0.0088	0.0005

Venus	91488-02-02 08:24 G	35136397.63	35136397.85	35136398.06	0.0088	0.0016
Venus	91488-09-14 21:07 G	35136623.18	35136623.38	35136623.60	0.0089	0.0027
Venus	91489-04-28 10:19 G	35136848.73	35136848.93	35136849.13	0.0089	0.0037
Venus	91489-12-09 23:02 G	35137074.29	35137074.46	35137074.66	0.0089	0.0048
Venus	91490-07-23 12:14 G	35137299.85	35137300.01	35137300.18	0.0089	0.0058
Venus	91491-03-06 00:43 G	35137525.42	35137525.53	35137525.70	0.0089	0.0069
Venus	91491-10-17 13:55 G	35137751.00	35137751.08	35137751.20	0.0089	0.0079
Earth	91492-02-01 18:14 G	35137858.16	35137858.26	35137858.41	0.0089	0.0078
Moon	91492-02-01 21:07 G	35137858.28	35137858.38	35137858.48	0.0089	0.0081 *
Moon	91493-02-03 04:19 G	35138225.48	35138225.68	35138225.89	0.0089	0.0055
Earth	91493-02-03 06:43 G	35138225.62	35138225.78	35138226.00	0.0089	0.0060 *
Earth	91494-02-05 19:26 G	35138593.10	35138593.31	35138593.56	0.0089	0.0041
Moon	91494-02-05 23:17 G	35138593.26	35138593.47	35138593.71	0.0089	0.0045 *
Moon	91495-02-08 05:02 G	35138960.45	35138960.71	35138960.96	0.0089	0.0018
Earth	91495-02-08 08:10 G	35138960.60	35138960.84	35138961.10	0.0089	0.0022 *
Earth	91496-02-10 20:53 G	35139328.11	35139328.37	35139328.63	0.0089	0.0003
Moon	91496-02-11 00:14 G	35139328.25	35139328.51	35139328.77	0.0089	0.0008 *
Moon	91497-02-12 07:12 G	35139695.56	35139695.80	35139696.05	0.0089	0.0020
Earth	91497-02-12 09:22 G	35139695.64	35139695.89	35139696.15	0.0089	0.0016 *
Earth	91498-02-14 21:36 G	35140063.17	35140063.40	35140063.65	0.0089	0.0035
Moon	91498-02-14 22:48 G	35140063.21	35140063.45	35140063.72	0.0089	0.0031 *
Moon	91499-02-17 09:50 G	35140430.73	35140430.91	35140431.11	0.0089	0.0058
Earth	91499-02-17 09:50 G	35140430.73	35140430.91	35140431.14	0.0089	0.0054 *
Jupiter	91499-07-25 18:43 G	35140588.88	35140589.28	35140589.75	0.0089	0.0056
Moon	91500-02-19 21:07 G	35140798.23	35140798.38	35140798.57	0.0089	0.0068
Earth	91500-02-19 22:48 G	35140798.31	35140798.45	35140798.61	0.0089	0.0072 *
Mercury	91526-11-06 02:38 G	35150553.61	35150553.61	35150553.66	0.0090	0.0089
Mercury	91527-02-02 06:29 G	35150641.69	35150641.77	35150641.88	0.0090	0.0078
Mercury	91527-05-01 10:05 G	35150729.81	35150729.92	35150730.06	0.0090	0.0067
Mercury	91527-07-28 13:41 G	35150817.94	35150818.07	35150818.24	0.0090	0.0056

Mercury	91527-10-24 17:17 G	35150906.07	35150906.22	35150906.40	0.0090	0.0045
Mercury	91528-01-20 21:07 G	35150994.21	35150994.38	35150994.56	0.0090	0.0034
Mercury	91528-04-18 00:43 G	35151082.35	35151082.53	35151082.72	0.0090	0.0023
Mercury	91528-07-15 04:19 G	35151170.49	35151170.68	35151170.87	0.0090	0.0012
Mars	91528-09-23 20:10 G	35151241.10	35151241.34	35151241.62	0.0090	0.0038
Mercury	91528-10-11 07:55 G	35151258.64	35151258.83	35151259.02	0.0090	0.0001
Mercury	91529-01-07 11:31 G	35151346.79	35151346.98	35151347.17	0.0090	0.0010
Mercury	91529-04-05 14:53 G	35151434.94	35151435.12	35151435.31	0.0090	0.0021
Mercury	91529-07-02 18:14 G	35151523.09	35151523.26	35151523.45	0.0090	0.0032
Mercury	91529-09-28 21:50 G	35151611.25	35151611.41	35151611.58	0.0090	0.0042
Mercury	91529-12-26 01:12 G	35151699.41	35151699.55	35151699.71	0.0090	0.0053
Mercury	91530-03-24 04:34 G	35151787.57	35151787.69	35151787.84	0.0090	0.0064
Mercury	91530-06-20 08:10 G	35151875.74	35151875.84	35151875.95	0.0090	0.0074
Mars	91530-08-18 08:53 G	35151934.73	35151934.87	35151935.05	0.0090	0.0074
Mercury	91530-09-16 11:17 G	35151963.93	35151963.97	35151964.05	0.0090	0.0085
Venus	91563-06-04 13:26 G	35163912.98	35163913.06	35163913.16	0.0089	0.0081
Venus	91564-01-16 02:10 G	35164138.48	35164138.59	35164138.74	0.0089	0.0071
Venus	91564-08-28 15:36 G	35164363.99	35164364.15	35164364.31	0.0089	0.0060
Venus	91565-04-11 04:19 G	35164589.51	35164589.68	35164589.87	0.0089	0.0050
Venus	91565-11-22 17:31 G	35164815.04	35164815.23	35164815.43	0.0089	0.0039
Venus	91566-07-06 06:14 G	35165040.57	35165040.76	35165040.98	0.0089	0.0029
Venus	91567-02-16 19:26 G	35165266.10	35165266.31	35165266.53	0.0089	0.0018
Venus	91567-09-30 08:24 G	35165491.63	35165491.85	35165492.07	0.0089	0.0008
Venus	91568-05-12 21:22 G	35165717.17	35165717.39	35165717.61	0.0089	0.0003
Venus	91568-12-24 10:19 G	35165942.72	35165942.93	35165943.15	0.0089	0.0014
Venus	91569-08-06 23:17 G	35166168.26	35166168.47	35166168.68	0.0089	0.0024
Venus	91570-03-20 12:00 G	35166393.81	35166394.00	35166394.21	0.0089	0.0035
Venus	91570-11-01 01:12 G	35166619.36	35166619.55	35166619.74	0.0089	0.0045
Venus	91571-06-14 13:55 G	35166844.92	35166845.08	35166845.26	0.0089	0.0056
Venus	91572-01-26 03:07 G	35167070.49	35167070.63	35167070.78	0.0089	0.0066

Moon	91572-07-30 06:43 G	35167256.73	35167256.78	35167256.90	0.0089	0.0084
Earth	91572-07-30 09:07 G	35167256.83	35167256.88	35167256.98	0.0089	0.0085 *
Venus	91572-09-07 15:36 G	35167296.06	35167296.15	35167296.28	0.0089	0.0077
Venus	91573-04-21 05:02 G	35167521.68	35167521.71	35167521.76	0.0089	0.0087
Earth	91573-08-01 19:41 G	35167624.18	35167624.32	35167624.52	0.0089	0.0067
Moon	91573-08-01 22:19 G	35167624.29	35167624.43	35167624.62	0.0089	0.0067 *
Moon	91574-08-04 03:07 G	35167991.43	35167991.63	35167991.87	0.0089	0.0048
Earth	91574-08-04 06:58 G	35167991.59	35167991.79	35167992.02	0.0089	0.0048 *
Earth	91575-08-06 17:46 G	35168359.01	35168359.24	35168359.49	0.0089	0.0030
Moon	91575-08-06 21:22 G	35168359.16	35168359.39	35168359.64	0.0089	0.0030 *
Moon	91576-08-08 01:26 G	35168726.32	35168726.56	35168726.82	0.0089	0.0012
Earth	91576-08-08 04:48 G	35168726.45	35168726.70	35168726.96	0.0089	0.0011 *
Earth	91577-08-10 15:36 G	35169093.90	35169094.15	35169094.41	0.0088	0.0008
Moon	91577-08-10 18:14 G	35169094.00	35169094.26	35169094.53	0.0088	0.0008 *
Moon	91578-08-13 01:26 G	35169461.33	35169461.56	35169461.80	0.0088	0.0026
Earth	91578-08-13 02:38 G	35169461.37	35169461.61	35169461.86	0.0088	0.0026 *
Earth	91579-08-15 12:58 G	35169828.84	35169829.04	35169829.28	0.0088	0.0045
Moon	91579-08-15 13:41 G	35169828.85	35169829.07	35169829.31	0.0088	0.0045 *
Earth	91580-08-16 23:46 G	35170196.33	35170196.49	35170196.69	0.0088	0.0063
Moon	91580-08-17 00:58 G	35170196.38	35170196.54	35170196.73	0.0088	0.0063 *
Moon	91581-08-19 07:55 G	35170563.75	35170563.83	35170563.97	0.0088	0.0080
Earth	91581-08-19 10:34 G	35170563.86	35170563.94	35170564.06	0.0088	0.0081 *
Mercury	91608-02-13 08:10 G	35180237.81	35180237.84	35180237.89	0.0088	0.0083
Mercury	91608-05-11 09:36 G	35180325.84	35180325.90	35180325.97	0.0088	0.0076
Mercury	91608-08-07 10:48 G	35180413.88	35180413.95	35180414.04	0.0088	0.0069
Mercury	91608-11-03 12:14 G	35180501.92	35180502.01	35180502.11	0.0088	0.0062
Mercury	91609-01-30 13:26 G	35180589.96	35180590.06	35180590.17	0.0088	0.0055
Mercury	91609-04-28 14:38 G	35180678.01	35180678.11	35180678.23	0.0088	0.0048
Mercury	91609-07-25 16:05 G	35180766.06	35180766.17	35180766.29	0.0088	0.0041
Mercury	91609-10-21 17:17 G	35180854.10	35180854.22	35180854.35	0.0088	0.0034

Mercury	91610-01-17 18:43 G	35180942.15	35180942.28	35180942.41	0.0088	0.0027
Mercury	91610-04-15 19:55 G	35181030.21	35181030.33	35181030.47	0.0088	0.0020
Mercury	91610-07-12 21:22 G	35181118.26	35181118.39	35181118.52	0.0088	0.0012
Mars	91610-07-21 05:02 G	35181126.48	35181126.71	35181127.01	0.0088	0.0058
Mercury	91610-10-08 22:48 G	35181206.31	35181206.45	35181206.58	0.0088	0.0006
Mercury	91611-01-05 00:00 G	35181294.37	35181294.50	35181294.64	0.0088	0.0002
Mercury	91611-04-03 01:12 G	35181382.42	35181382.55	35181382.69	0.0088	0.0010
Mercury	91611-06-30 02:38 G	35181470.48	35181470.61	35181470.74	0.0088	0.0016
Mercury	91611-09-26 03:50 G	35181558.54	35181558.66	35181558.80	0.0088	0.0024
Mercury	91611-12-23 05:17 G	35181646.60	35181646.72	35181646.85	0.0088	0.0031
Mercury	91612-03-20 06:43 G	35181734.66	35181734.78	35181734.90	0.0088	0.0038
Mercury	91612-06-16 07:55 G	35181822.72	35181822.83	35181822.95	0.0088	0.0045
Mars	91612-06-16 17:02 G	35181823.04	35181823.21	35181823.42	0.0088	0.0073
Mercury	91612-09-12 09:07 G	35181910.78	35181910.88	35181911.00	0.0088	0.0053
Mercury	91612-12-09 10:34 G	35181998.85	35181998.94	35181999.05	0.0088	0.0060
Mercury	91613-03-07 12:00 G	35182086.92	35182087.00	35182087.09	0.0088	0.0067
Mercury	91613-06-03 13:26 G	35182174.99	35182175.06	35182175.13	0.0088	0.0074
Mercury	91613-08-30 14:53 G	35182263.07	35182263.12	35182263.17	0.0088	0.0081
Venus	91646-10-15 20:24 G	35194362.28	35194362.35	35194362.44	0.0088	0.0082
Venus	91647-05-29 09:22 G	35194587.78	35194587.89	35194588.03	0.0088	0.0072
Venus	91648-01-09 22:05 G	35194813.29	35194813.42	35194813.61	0.0088	0.0062
Venus	91648-08-22 11:31 G	35195038.81	35195038.98	35195039.17	0.0088	0.0051
Venus	91649-04-05 00:29 G	35195264.34	35195264.52	35195264.73	0.0088	0.0040
Venus	91649-11-16 13:55 G	35195489.87	35195490.08	35195490.29	0.0088	0.0030
Venus	91650-06-30 02:53 G	35195715.41	35195715.62	35195715.84	0.0088	0.0019
Venus	91651-02-10 16:05 G	35195940.95	35195941.17	35195941.39	0.0088	0.0009
Venus	91651-09-24 05:02 G	35196166.49	35196166.71	35196166.93	0.0088	0.0002
Venus	91652-05-06 18:00 G	35196392.04	35196392.25	35196392.48	0.0088	0.0013
Venus	91652-12-18 06:58 G	35196617.59	35196617.79	35196618.02	0.0088	0.0024
Venus	91653-07-31 20:10 G	35196843.14	35196843.34	35196843.55	0.0089	0.0034

Venus	91654-03-14 08:53 G	35197068.70	35197068.87	35197069.08	0.0089	0.0045
Venus	91654-10-25 22:05 G	35197294.26	35197294.42	35197294.61	0.0089	0.0055
Venus	91655-06-08 11:17 G	35197519.83	35197519.97	35197520.13	0.0089	0.0065
Venus	91656-01-20 00:00 G	35197745.41	35197745.50	35197745.63	0.0089	0.0076
Moon	91656-02-01 22:05 G	35197758.39	35197758.42	35197758.50	0.0089	0.0087
Earth	91656-02-02 01:41 G	35197758.50	35197758.57	35197758.68	0.0089	0.0083 *
Venus	91656-09-01 12:58 G	35197971.01	35197971.04	35197971.11	0.0089	0.0086
Earth	91657-02-03 13:55 G	35198125.93	35198126.08	35198126.29	0.0089	0.0065
Moon	91657-02-03 17:31 G	35198126.07	35198126.23	35198126.45	0.0089	0.0062 *
Moon	91658-02-05 23:31 G	35198493.27	35198493.48	35198493.70	0.0089	0.0049
Earth	91658-02-06 02:38 G	35198493.41	35198493.61	35198493.85	0.0089	0.0046 *
Earth	91659-02-08 15:22 G	35198860.90	35198861.14	35198861.40	0.0089	0.0027
Moon	91659-02-08 18:00 G	35198861.00	35198861.25	35198861.51	0.0089	0.0024 *
Moon	91660-02-11 01:55 G	35199228.34	35199228.58	35199228.84	0.0089	0.0011
Earth	91660-02-11 04:05 G	35199228.41	35199228.67	35199228.93	0.0089	0.0008 *
Earth	91661-02-12 16:19 G	35199595.93	35199596.18	35199596.45	0.0089	0.0011
Moon	91661-02-12 17:02 G	35199595.95	35199596.21	35199596.48	0.0089	0.0014 *
Earth	91662-02-15 04:34 G	35199963.46	35199963.69	35199963.95	0.0089	0.0030
Moon	91662-02-15 05:31 G	35199963.50	35199963.73	35199963.98	0.0089	0.0027 *
Moon	91663-02-17 15:22 G	35200330.95	35200331.14	35200331.39	0.0089	0.0051
Earth	91663-02-17 17:17 G	35200331.02	35200331.22	35200331.45	0.0089	0.0048 *
Earth	91664-02-20 05:46 G	35200698.59	35200698.74	35200698.92	0.0089	0.0067
Moon	91664-02-20 08:53 G	35200698.70	35200698.87	35200699.05	0.0089	0.0064 *
Moon	91665-02-21 15:22 G	35201066.12	35201066.14	35201066.17	0.0089	0.0088
Earth	91665-02-21 18:00 G	35201066.22	35201066.25	35201066.35	0.0089	0.0086
Jupiter	91665-09-22 07:41 G	35201278.71	35201278.82	35201278.97	0.0089	0.0086
Mercury	91691-08-03 00:43 G	35210724.49	35210724.53	35210724.62	0.0090	0.0085
Mercury	91691-10-30 04:34 G	35210812.60	35210812.69	35210812.81	0.0090	0.0074
Mercury	91692-01-26 08:10 G	35210900.72	35210900.84	35210900.99	0.0090	0.0063
Mercury	91692-04-23 11:46 G	35210988.85	35210988.99	35210989.16	0.0090	0.0052

Mars	91692-05-09 11:17 G	35211004.88	35211004.97	35211005.12	0.0090	0.0081
Mercury	91692-07-20 15:36 G	35211076.99	35211077.15	35211077.33	0.0090	0.0041
Mercury	91692-10-16 19:12 G	35211165.13	35211165.30	35211165.49	0.0090	0.0030
Mercury	91693-01-12 22:48 G	35211253.27	35211253.45	35211253.64	0.0090	0.0019
Mercury	91693-04-11 02:24 G	35211341.41	35211341.60	35211341.79	0.0090	0.0008
Mercury	91693-07-08 06:00 G	35211429.56	35211429.75	35211429.94	0.0090	0.0003
Mercury	91693-10-04 09:36 G	35211517.71	35211517.90	35211518.09	0.0090	0.0014
Mercury	91693-12-31 12:58 G	35211605.86	35211606.04	35211606.23	0.0090	0.0025
Mercury	91694-03-29 16:19 G	35211694.02	35211694.18	35211694.37	0.0090	0.0036
Mars	91694-04-03 00:00 G	35211698.25	35211698.50	35211698.79	0.0090	0.0031
Mercury	91694-06-25 20:10 G	35211782.18	35211782.34	35211782.50	0.0090	0.0046
Mercury	91694-09-21 23:31 G	35211870.34	35211870.48	35211870.63	0.0090	0.0057
Mercury	91694-12-19 02:53 G	35211958.51	35211958.62	35211958.75	0.0090	0.0068
Mercury	91695-03-17 06:43 G	35212046.69	35212046.78	35212046.87	0.0090	0.0078
Mercury	91695-06-13 09:50 G	35212134.90	35212134.91	35212134.94	0.0090	0.0089
Venus	91727-09-06 23:02 G	35223907.42	35223907.46	35223907.55	0.0089	0.0085
Venus	91728-04-19 12:29 G	35224132.91	35224133.02	35224133.15	0.0089	0.0074
Venus	91728-12-01 01:12 G	35224358.42	35224358.55	35224358.73	0.0089	0.0064
Venus	91729-07-14 14:24 G	35224583.94	35224584.10	35224584.29	0.0089	0.0053
Venus	91730-02-25 03:07 G	35224809.46	35224809.63	35224809.84	0.0089	0.0043
Venus	91730-10-08 16:19 G	35225034.99	35225035.18	35225035.40	0.0089	0.0032
Venus	91731-05-22 05:31 G	35225260.52	35225260.73	35225260.95	0.0089	0.0022
Venus	91732-01-02 18:29 G	35225486.06	35225486.27	35225486.49	0.0089	0.0011
Venus	91732-08-15 07:26 G	35225711.60	35225711.81	35225712.04	0.0089	0.0002
Venus	91733-03-28 20:24 G	35225937.14	35225937.35	35225937.57	0.0089	0.0011
Venus	91733-11-09 09:22 G	35226162.68	35226162.89	35226163.11	0.0089	0.0021
Venus	91734-06-22 22:19 G	35226388.23	35226388.43	35226388.65	0.0089	0.0032
Venus	91735-02-03 11:17 G	35226613.79	35226613.97	35226614.17	0.0089	0.0042
Venus	91735-09-17 00:00 G	35226839.34	35226839.50	35226839.69	0.0089	0.0053
Venus	91736-04-29 13:26 G	35227064.91	35227065.06	35227065.22	0.0089	0.0063

Venus	91736-12-11 01:55 G	35227290.48	35227290.58	35227290.72	0.0089	0.0074
Venus	91737-07-24 15:07 G	35227516.08	35227516.13	35227516.21	0.0089	0.0084
Moon	91737-08-02 01:55 G	35227524.44	35227524.58	35227524.77	0.0089	0.0067
Earth	91737-08-02 05:46 G	35227524.60	35227524.74	35227524.90	0.0089	0.0071 *
Earth	91738-08-04 16:19 G	35227891.99	35227892.18	35227892.40	0.0089	0.0053
Moon	91738-08-04 19:55 G	35227892.15	35227892.33	35227892.54	0.0089	0.0058 *
Moon	91739-08-07 00:29 G	35228259.29	35228259.52	35228259.76	0.0089	0.0030
Earth	91739-08-07 03:07 G	35228259.40	35228259.63	35228259.88	0.0089	0.0035 *
Earth	91740-08-08 14:10 G	35228626.84	35228627.09	35228627.34	0.0089	0.0016
Moon	91740-08-08 16:05 G	35228626.93	35228627.17	35228627.44	0.0089	0.0021 *
Moon	91741-08-11 00:00 G	35228994.26	35228994.50	35228994.75	0.0089	0.0007
Earth	91741-08-11 00:58 G	35228994.29	35228994.54	35228994.80	0.0089	0.0003 *
Moon	91742-08-13 11:02 G	35229361.71	35229361.96	35229362.23	0.0088	0.0017
Earth	91742-08-13 12:00 G	35229361.75	35229362.00	35229362.25	0.0088	0.0021 *
Earth	91743-08-15 22:19 G	35229729.22	35229729.43	35229729.68	0.0088	0.0040
Moon	91743-08-16 00:00 G	35229729.29	35229729.50	35229729.72	0.0088	0.0044 *
Moon	91744-08-17 06:43 G	35230096.58	35230096.78	35230097.00	0.0088	0.0053
Earth	91744-08-17 09:22 G	35230096.71	35230096.89	35230097.10	0.0088	0.0058 *
Earth	91745-08-19 20:10 G	35230464.22	35230464.34	35230464.48	0.0088	0.0076
Moon	91745-08-19 23:17 G	35230464.39	35230464.47	35230464.60	0.0088	0.0081 *
Mercury	91772-08-14 06:29 G	35240320.77	35240320.77	35240320.79	0.0088	0.0087
Mercury	91772-11-10 07:55 G	35240408.78	35240408.83	35240408.88	0.0088	0.0080
Mercury	91773-02-06 09:07 G	35240496.81	35240496.88	35240496.96	0.0088	0.0073
Mercury	91773-05-05 10:34 G	35240584.85	35240584.94	35240585.03	0.0088	0.0066
Mercury	91773-08-01 11:46 G	35240672.90	35240672.99	35240673.09	0.0088	0.0059
Mercury	91773-10-28 12:58 G	35240760.94	35240761.04	35240761.15	0.0088	0.0052
Mercury	91774-01-24 14:24 G	35240848.99	35240849.10	35240849.22	0.0088	0.0045
Mercury	91774-04-22 15:36 G	35240937.04	35240937.15	35240937.28	0.0088	0.0038
Mercury	91774-07-19 17:02 G	35241025.08	35241025.21	35241025.33	0.0088	0.0031
Mercury	91774-10-15 18:14 G	35241113.13	35241113.26	35241113.39	0.0088	0.0024



Mercury	91775-01-11 19:41 G	35241201.19	35241201.32	35241201.45	0.0088	0.0017
Mercury	91775-04-09 20:53 G	35241289.24	35241289.37	35241289.51	0.0088	0.0010
Mercury	91775-07-06 22:19 G	35241377.29	35241377.43	35241377.56	0.0088	0.0002
Mercury	91775-10-02 23:31 G	35241465.35	35241465.48	35241465.62	0.0088	0.0005
Mercury	91775-12-30 00:58 G	35241553.41	35241553.54	35241553.67	0.0088	0.0012
Mars	91776-01-29 21:22 G	35241584.06	35241584.39	35241584.74	0.0088	0.0023
Mercury	91776-03-27 02:10 G	35241641.46	35241641.59	35241641.73	0.0088	0.0019
Mercury	91776-06-23 03:22 G	35241729.52	35241729.64	35241729.78	0.0088	0.0027
Mercury	91776-09-19 04:48 G	35241817.58	35241817.70	35241817.83	0.0088	0.0033
Mercury	91776-12-16 06:00 G	35241905.64	35241905.75	35241905.88	0.0088	0.0041
Mercury	91777-03-14 07:26 G	35241993.70	35241993.81	35241993.93	0.0088	0.0048
Mercury	91777-06-10 08:53 G	35242081.77	35242081.87	35242081.98	0.0088	0.0055
Mercury	91777-09-06 10:05 G	35242169.83	35242169.92	35242170.02	0.0088	0.0062
Mercury	91777-12-03 11:17 G	35242257.90	35242257.97	35242258.07	0.0088	0.0070
Mercury	91778-03-01 12:43 G	35242345.98	35242346.03	35242346.10	0.0088	0.0077
Mercury	91778-05-28 14:10 G	35242434.06	35242434.09	35242434.13	0.0088	0.0084
Venus	91811-01-19 05:46 G	35254356.71	35254356.74	35254356.82	0.0088	0.0085
Venus	91811-09-01 19:12 G	35254582.19	35254582.30	35254582.42	0.0088	0.0075
Venus	91812-04-14 07:55 G	35254807.70	35254807.83	35254808.00	0.0088	0.0065
Venus	91812-11-25 21:07 G	35255033.22	35255033.38	35255033.57	0.0088	0.0054
Venus	91813-07-09 10:19 G	35255258.75	35255258.93	35255259.13	0.0088	0.0044
Venus	91814-02-19 23:17 G	35255484.28	35255484.47	35255484.69	0.0088	0.0033
Venus	91814-10-03 12:29 G	35255709.81	35255710.02	35255710.24	0.0088	0.0023
Venus	91815-05-17 01:26 G	35255935.35	35255935.56	35255935.79	0.0088	0.0013
Venus	91815-12-28 14:38 G	35256160.90	35256161.11	35256161.34	0.0088	0.0003
Venus	91816-08-10 03:36 G	35256386.44	35256386.65	35256386.88	0.0088	0.0010
Venus	91817-03-23 16:48 G	35256611.99	35256612.20	35256612.42	0.0088	0.0020
Venus	91817-11-04 05:46 G	35256837.55	35256837.74	35256837.96	0.0088	0.0031
Venus	91818-06-17 18:58 G	35257063.10	35257063.29	35257063.49	0.0089	0.0041
Venus	91819-01-29 07:41 G	35257288.66	35257288.82	35257289.02	0.0089	0.0052

Venus	91819-09-11 20:53 G	35257514.22	35257514.37	35257514.54	0.0089	0.0062
Earth	91820-02-03 08:24 G	35257658.84	35257658.85	35257658.89	0.0089	0.0088
Moon	91820-02-03 11:46 G	35257658.95	35257658.99	35257659.08	0.0089	0.0086
Venus	91820-04-24 10:05 G	35257739.80	35257739.92	35257740.05	0.0089	0.0072
Venus	91820-12-05 22:48 G	35257965.39	35257965.45	35257965.55	0.0089	0.0083
Moon	91821-02-04 17:31 G	35258026.12	35258026.23	35258026.41	0.0089	0.0073
Earth	91821-02-04 20:38 G	35258026.23	35258026.36	35258026.55	0.0089	0.0070 *
Earth	91822-02-07 09:36 G	35258393.70	35258393.90	35258394.12	0.0089	0.0051
Moon	91822-02-07 12:00 G	35258393.79	35258394.00	35258394.24	0.0089	0.0048 *
Moon	91823-02-09 21:22 G	35258761.17	35258761.39	35258761.63	0.0089	0.0035
Earth	91823-02-09 22:19 G	35258761.20	35258761.43	35258761.68	0.0089	0.0032 *
Moon	91824-02-12 10:48 G	35259128.69	35259128.95	35259129.23	0.0089	0.0011
Earth	91824-02-12 10:48 G	35259128.70	35259128.95	35259129.21	0.0089	0.0014 *
Earth	91825-02-13 23:17 G	35259496.22	35259496.47	35259496.73	0.0089	0.0006
Moon	91825-02-14 00:29 G	35259496.27	35259496.52	35259496.77	0.0089	0.0002 *
Moon	91826-02-16 08:53 G	35259863.63	35259863.87	35259864.14	0.0089	0.0027
Earth	91826-02-16 11:46 G	35259863.74	35259863.99	35259864.24	0.0089	0.0024 *
Earth	91827-02-19 00:00 G	35260231.29	35260231.50	35260231.74	0.0089	0.0043
Moon	91827-02-19 03:07 G	35260231.41	35260231.63	35260231.86	0.0089	0.0039 *
Moon	91828-02-21 08:53 G	35260598.71	35260598.87	35260599.06	0.0089	0.0065
Earth	91828-02-21 12:43 G	35260598.85	35260599.03	35260599.22	0.0089	0.0061 *
Earth	91829-02-23 00:43 G	35260966.44	35260966.53	35260966.66	0.0089	0.0080
Moon	91829-02-23 03:50 G	35260966.56	35260966.66	35260966.82	0.0089	0.0077 *
Mercury	91856-04-30 23:02 G	35270895.39	35270895.46	35270895.55	0.0090	0.0081
Mercury	91856-07-28 02:38 G	35270983.50	35270983.61	35270983.74	0.0090	0.0070
Mercury	91856-10-24 06:14 G	35271071.63	35271071.76	35271071.92	0.0090	0.0059
Mercury	91857-01-20 09:50 G	35271159.76	35271159.91	35271160.08	0.0090	0.0048
Mercury	91857-04-18 13:41 G	35271247.90	35271248.07	35271248.25	0.0090	0.0037
Mercury	91857-07-15 17:17 G	35271336.04	35271336.22	35271336.41	0.0090	0.0026
Mercury	91857-10-11 20:53 G	35271424.18	35271424.37	35271424.56	0.0090	0.0015

Mars	91857-11-18 14:10 G	35271461.82	35271462.09	35271462.39	0.0090	0.0014
Mercury	91858-01-08 00:29 G	35271512.33	35271512.52	35271512.71	0.0090	0.0004
Mercury	91858-04-06 04:05 G	35271600.48	35271600.67	35271600.86	0.0090	0.0007
Mercury	91858-07-03 07:26 G	35271688.63	35271688.81	35271689.00	0.0090	0.0018
Mercury	91858-09-29 10:48 G	35271776.78	35271776.95	35271777.14	0.0090	0.0029
Mercury	91858-12-26 14:24 G	35271864.94	35271865.10	35271865.28	0.0090	0.0040
Mercury	91859-03-24 18:00 G	35271953.10	35271953.25	35271953.41	0.0090	0.0050
Mercury	91859-06-20 21:22 G	35272041.27	35272041.39	35272041.54	0.0090	0.0061
Mercury	91859-09-17 00:43 G	35272129.44	35272129.53	35272129.66	0.0090	0.0072
Mercury	91859-12-14 04:34 G	35272217.62	35272217.69	35272217.77	0.0090	0.0082
Venus	91891-12-10 09:36 G	35283901.89	35283901.90	35283901.94	0.0089	0.0088
Venus	91892-07-22 22:19 G	35284127.35	35284127.43	35284127.56	0.0089	0.0078
Venus	91893-03-05 11:17 G	35284352.85	35284352.97	35284353.13	0.0089	0.0067
Venus	91893-10-17 00:14 G	35284578.36	35284578.51	35284578.69	0.0089	0.0057
Venus	91894-05-30 13:26 G	35284803.88	35284804.06	35284804.26	0.0089	0.0046
Venus	91895-01-11 02:38 G	35285029.41	35285029.61	35285029.81	0.0089	0.0035
Venus	91895-08-24 15:22 G	35285254.94	35285255.14	35285255.36	0.0089	0.0025
Venus	91896-04-06 04:34 G	35285480.47	35285480.69	35285480.91	0.0089	0.0014
Venus	91896-11-17 17:31 G	35285706.01	35285706.23	35285706.45	0.0089	0.0004
Venus	91897-07-01 06:29 G	35285931.56	35285931.77	35285931.99	0.0089	0.0007
Venus	91898-02-11 19:26 G	35286157.10	35286157.31	35286157.53	0.0089	0.0018
Venus	91898-09-25 08:24 G	35286382.64	35286382.85	35286383.06	0.0089	0.0028
Venus	91899-05-08 21:22 G	35286608.20	35286608.39	35286608.59	0.0089	0.0039
Venus	91899-12-20 10:05 G	35286833.76	35286833.92	35286834.12	0.0089	0.0050
Venus	91900-08-02 23:02 G	35287059.31	35287059.46	35287059.64	0.0089	0.0060
Venus	91901-03-16 11:46 G	35287284.88	35287284.99	35287285.15	0.0089	0.0071
Earth	91901-08-03 14:24 G	35287424.99	35287425.10	35287425.25	0.0089	0.0076
Moon	91901-08-03 17:31 G	35287425.11	35287425.23	35287425.39	0.0089	0.0075 *
Venus	91901-10-28 00:58 G	35287510.47	35287510.54	35287510.64	0.0089	0.0081
Moon	91902-08-05 22:19 G	35287792.26	35287792.43	35287792.63	0.0089	0.0059

Earth	91902-08-06 00:58 G	35287792.37	35287792.54	35287792.75	0.0089	0.0058	*
Earth	91903-08-08 11:46 G	35288159.78	35288159.99	35288160.23	0.0089	0.0040	
Moon	91903-08-08 13:12 G	35288159.82	35288160.05	35288160.30	0.0089	0.0038	*
Moon	91904-08-09 22:05 G	35288527.19	35288527.42	35288527.67	0.0089	0.0023	
Earth	91904-08-09 22:48 G	35288527.20	35288527.45	35288527.70	0.0089	0.0021	*
Moon	91905-08-12 08:38 G	35288894.60	35288894.86	35288895.13	0.0089	0.0002	
Earth	91905-08-12 09:22 G	35288894.64	35288894.89	35288895.15	0.0089	0.0003	*
Earth	91906-08-14 20:10 G	35289262.09	35289262.34	35289262.60	0.0089	0.0016	
Moon	91906-08-14 22:34 G	35289262.19	35289262.44	35289262.69	0.0089	0.0014	*
Moon	91907-08-17 03:50 G	35289629.44	35289629.66	35289629.91	0.0088	0.0036	
Earth	91907-08-17 06:43 G	35289629.56	35289629.78	35289630.03	0.0088	0.0034	*
Earth	91908-08-18 17:31 G	35289997.04	35289997.23	35289997.45	0.0088	0.0053	
Moon	91908-08-18 21:22 G	35289997.19	35289997.39	35289997.60	0.0088	0.0052	*
Moon	91909-08-21 00:43 G	35290364.42	35290364.53	35290364.71	0.0088	0.0073	
Earth	91909-08-21 04:34 G	35290364.56	35290364.69	35290364.86	0.0088	0.0071	*
Moon	91910-08-23 18:29 G	35290732.27	35290732.27	35290732.30	0.0088	0.0088	
Mercury	91937-05-13 05:46 G	35300491.73	35300491.74	35300491.79	0.0088	0.0085	
Mercury	91937-08-09 07:12 G	35300579.75	35300579.80	35300579.87	0.0088	0.0078	
Mercury	91937-11-05 08:24 G	35300667.79	35300667.85	35300667.94	0.0088	0.0071	
Mercury	91938-02-01 09:50 G	35300755.83	35300755.91	35300756.01	0.0088	0.0064	
Mercury	91938-04-30 11:02 G	35300843.87	35300843.96	35300844.07	0.0088	0.0057	
Mercury	91938-07-27 12:29 G	35300931.92	35300932.02	35300932.14	0.0088	0.0049	
Mercury	91938-10-23 13:41 G	35301019.96	35301020.07	35301020.20	0.0088	0.0043	
Mercury	91939-01-19 15:07 G	35301108.01	35301108.13	35301108.26	0.0088	0.0035	
Mercury	91939-04-17 16:19 G	35301196.06	35301196.18	35301196.32	0.0088	0.0029	
Mercury	91939-07-14 17:46 G	35301284.11	35301284.24	35301284.37	0.0088	0.0021	
Mars	91939-09-14 00:43 G	35301345.20	35301345.53	35301345.87	0.0088	0.0027	
Mercury	91939-10-10 18:58 G	35301372.16	35301372.29	35301372.43	0.0088	0.0015	
Mercury	91940-01-06 20:24 G	35301460.22	35301460.35	35301460.49	0.0088	0.0007	
Mercury	91940-04-03 21:50 G	35301548.27	35301548.41	35301548.54	0.0088	0.0002	

Mercury	91940-06-30 23:02 G	35301636.33	35301636.46	35301636.60	0.0088	0.0007
Mercury	91940-09-27 00:14 G	35301724.38	35301724.51	35301724.65	0.0088	0.0015
Mercury	91940-12-24 01:41 G	35301812.44	35301812.57	35301812.70	0.0088	0.0022
Mercury	91941-03-22 02:53 G	35301900.50	35301900.62	35301900.75	0.0088	0.0029
Mercury	91941-06-18 04:19 G	35301988.56	35301988.68	35301988.80	0.0088	0.0036
Mercury	91941-09-14 05:46 G	35302076.62	35302076.74	35302076.85	0.0088	0.0043
Mercury	91941-12-11 06:58 G	35302164.68	35302164.79	35302164.90	0.0088	0.0050
Mercury	91942-03-09 08:10 G	35302252.75	35302252.84	35302252.95	0.0088	0.0057
Mercury	91942-06-05 09:22 G	35302340.81	35302340.89	35302340.99	0.0088	0.0065
Mercury	91942-09-01 10:48 G	35302428.88	35302428.95	35302429.04	0.0088	0.0072
Mercury	91942-11-28 12:14 G	35302516.96	35302517.01	35302517.07	0.0088	0.0079
Mercury	91943-02-24 13:41 G	35302605.05	35302605.07	35302605.09	0.0088	0.0086
Venus	91975-12-05 04:05 G	35314576.59	35314576.67	35314576.79	0.0088	0.0079
Venus	91976-07-17 17:02 G	35314802.09	35314802.21	35314802.37	0.0088	0.0069
Venus	91977-02-28 06:29 G	35315027.61	35315027.77	35315027.94	0.0088	0.0058
Venus	91977-10-11 19:26 G	35315253.13	35315253.31	35315253.51	0.0088	0.0047
Venus	91978-05-25 08:38 G	35315478.66	35315478.86	35315479.07	0.0088	0.0037
Venus	91979-01-05 21:36 G	35315704.20	35315704.40	35315704.62	0.0088	0.0026
Venus	91979-08-19 10:48 G	35315929.73	35315929.95	35315930.17	0.0088	0.0016
Venus	91980-03-31 23:46 G	35316155.27	35316155.49	35316155.71	0.0088	0.0005
Venus	91980-11-12 12:58 G	35316380.82	35316381.04	35316381.26	0.0088	0.0005
Venus	91981-06-26 01:55 G	35316606.37	35316606.58	35316606.80	0.0088	0.0016
Venus	91982-02-06 14:38 G	35316831.91	35316832.11	35316832.33	0.0088	0.0027
Venus	91982-09-20 03:50 G	35317057.47	35317057.66	35317057.87	0.0088	0.0037
Venus	91983-05-03 16:34 G	35317283.02	35317283.19	35317283.40	0.0089	0.0048
Venus	91983-12-15 06:00 G	35317508.59	35317508.75	35317508.92	0.0089	0.0058
Venus	91984-07-27 18:43 G	35317734.16	35317734.28	35317734.44	0.0089	0.0069
Earth	91985-02-05 02:24 G	35317926.47	35317926.60	35317926.75	0.0089	0.0075
Moon	91985-02-05 03:50 G	35317926.56	35317926.66	35317926.80	0.0089	0.0079 *
Venus	91985-03-10 07:55 G	35317959.75	35317959.83	35317959.94	0.0089	0.0079

Moon	91986-02-07 14:10 G	35318293.91	35318294.09	35318294.31	0.0089	0.0053
Earth	91986-02-07 14:53 G	35318293.94	35318294.12	35318294.34	0.0089	0.0057 *
Moon	91987-02-10 02:53 G	35318661.39	35318661.62	35318661.86	0.0089	0.0042
Earth	91987-02-10 03:50 G	35318661.44	35318661.66	35318661.91	0.0089	0.0038 *
Earth	91988-02-12 16:34 G	35319028.94	35319029.19	35319029.45	0.0089	0.0019
Moon	91988-02-12 18:14 G	35319029.02	35319029.26	35319029.52	0.0089	0.0016 *
Moon	91989-02-14 02:24 G	35319396.34	35319396.60	35319396.87	0.0089	0.0004
Earth	91989-02-14 05:17 G	35319396.46	35319396.72	35319396.98	0.0089	0.0001 *
Earth	91990-02-16 17:31 G	35319763.98	35319764.23	35319764.49	0.0089	0.0019
Moon	91990-02-16 21:07 G	35319764.14	35319764.38	35319764.64	0.0089	0.0023 *
Moon	91991-02-19 02:24 G	35320131.38	35320131.60	35320131.86	0.0089	0.0034
Earth	91991-02-19 06:14 G	35320131.53	35320131.76	35320132.00	0.0089	0.0037 *
Earth	91992-02-21 18:00 G	35320499.07	35320499.25	35320499.48	0.0089	0.0056
Moon	91992-02-21 22:05 G	35320499.23	35320499.42	35320499.62	0.0089	0.0059 *
Moon	91993-02-23 03:50 G	35320866.54	35320866.66	35320866.84	0.0089	0.0071
Earth	91993-02-23 06:58 G	35320866.66	35320866.79	35320866.94	0.0089	0.0074 *

# 93RD MILLENNIUM CE

This is a list of transits visible from Neptune in the 93rd millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	92020-10-30 16:48 G	35330978.20	35330978.20	35330978.23	0.0090	0.0089		
Mercury	92021-01-26 20:10 G	35331066.27	35331066.34	35331066.46	0.0090	0.0079		

Mercury	92021-04-25 00:00 G	35331154.39	35331154.50	35331154.64	0.0090	0.0068
Mars	92021-07-05 01:55 G	35331225.38	35331225.58	35331225.81	0.0090	0.0058
Mercury	92021-07-22 04:05 G	35331242.52	35331242.67	35331242.82	0.0090	0.0056
Mercury	92021-10-18 07:12 G	35331330.65	35331330.80	35331330.98	0.0090	0.0046
Mercury	92022-01-14 11:02 G	35331418.79	35331418.96	35331419.15	0.0090	0.0035
Mercury	92022-04-12 14:38 G	35331506.93	35331507.11	35331507.30	0.0090	0.0024
Mercury	92022-07-09 18:14 G	35331595.08	35331595.26	35331595.46	0.0090	0.0013
Mercury	92022-10-05 22:05 G	35331683.23	35331683.42	35331683.61	0.0090	0.0002
Mercury	92023-01-02 01:26 G	35331771.38	35331771.56	35331771.76	0.0090	0.0010
Mercury	92023-03-31 05:02 G	35331859.53	35331859.71	35331859.90	0.0090	0.0020
Mars	92023-05-29 14:24 G	35331918.89	35331919.10	35331919.35	0.0090	0.0053
Mercury	92023-06-27 08:38 G	35331947.68	35331947.86	35331948.04	0.0090	0.0031
Mercury	92023-09-23 12:14 G	35332035.84	35332036.01	35332036.18	0.0090	0.0042
Mercury	92023-12-20 15:36 G	35332124.01	35332124.15	35332124.31	0.0090	0.0053
Mercury	92024-03-17 18:58 G	35332212.17	35332212.29	35332212.44	0.0090	0.0064
Mercury	92024-06-13 22:48 G	35332300.35	35332300.45	35332300.56	0.0090	0.0074
Mercury	92024-09-10 02:10 G	35332388.54	35332388.59	35332388.66	0.0090	0.0085
Venus	92056-10-25 07:55 G	35344121.76	35344121.83	35344121.93	0.0089	0.0082
Venus	92057-06-07 20:38 G	35344347.25	35344347.36	35344347.51	0.0089	0.0071
Venus	92058-01-19 09:50 G	35344572.76	35344572.91	35344573.08	0.0089	0.0060
Venus	92058-09-01 22:34 G	35344798.28	35344798.44	35344798.64	0.0089	0.0050
Venus	92059-04-15 11:46 G	35345023.80	35345023.99	35345024.20	0.0089	0.0039
Venus	92059-11-27 00:43 G	35345249.33	35345249.53	35345249.75	0.0089	0.0029
Venus	92060-07-09 13:41 G	35345474.86	35345475.07	35345475.29	0.0089	0.0018
Venus	92061-02-20 02:53 G	35345700.40	35345700.62	35345700.84	0.0089	0.0007
Venus	92061-10-03 15:50 G	35345925.94	35345926.16	35345926.38	0.0089	0.0003
Venus	92062-05-17 04:48 G	35346151.49	35346151.70	35346151.92	0.0089	0.0014
Venus	92062-12-28 17:46 G	35346377.04	35346377.24	35346377.46	0.0089	0.0025
Venus	92063-08-11 06:58 G	35346602.59	35346602.79	35346602.99	0.0089	0.0035
Venus	92064-03-23 19:41 G	35346828.14	35346828.32	35346828.52	0.0089	0.0046

Venus	92064-11-04 08:24 G	35347053.70	35347053.85	35347054.04	0.0089	0.0057
Venus	92065-06-17 21:36 G	35347279.27	35347279.40	35347279.56	0.0089	0.0067
Moon	92065-08-02 20:38 G	35347325.31	35347325.36	35347325.45	0.0089	0.0085
Earth	92065-08-02 22:34 G	35347325.36	35347325.44	35347325.57	0.0089	0.0081 *
Venus	92066-01-29 10:19 G	35347504.85	35347504.93	35347505.06	0.0089	0.0078
Earth	92066-08-05 09:22 G	35347692.73	35347692.89	35347693.09	0.0089	0.0063
Moon	92066-08-05 11:17 G	35347692.77	35347692.97	35347693.17	0.0089	0.0058 *
Venus	92066-09-11 23:31 G	35347730.47	35347730.48	35347730.52	0.0089	0.0088
Earth	92067-08-07 20:10 G	35348060.14	35348060.34	35348060.58	0.0089	0.0045
Moon	92067-08-07 20:38 G	35348060.17	35348060.36	35348060.58	0.0089	0.0049 *
Moon	92068-08-09 05:17 G	35348427.48	35348427.72	35348427.99	0.0089	0.0023
Earth	92068-08-09 06:58 G	35348427.56	35348427.79	35348428.05	0.0089	0.0027 *
Earth	92069-08-11 18:00 G	35348794.99	35348795.25	35348795.50	0.0089	0.0008
Moon	92069-08-11 19:55 G	35348795.09	35348795.33	35348795.59	0.0089	0.0013 *
Moon	92070-08-14 00:58 G	35349162.29	35349162.54	35349162.80	0.0089	0.0015
Earth	92070-08-14 04:34 G	35349162.44	35349162.69	35349162.95	0.0089	0.0010 *
Earth	92071-08-16 15:07 G	35349529.90	35349530.13	35349530.38	0.0089	0.0029
Moon	92071-08-16 18:29 G	35349530.04	35349530.27	35349530.53	0.0089	0.0025 *
Moon	92072-08-17 22:19 G	35349897.24	35349897.43	35349897.65	0.0088	0.0052
Earth	92072-08-18 02:10 G	35349897.38	35349897.59	35349897.81	0.0088	0.0047 *
Earth	92073-08-20 12:14 G	35350264.87	35350265.01	35350265.21	0.0088	0.0066
Moon	92073-08-20 15:22 G	35350264.97	35350265.14	35350265.35	0.0088	0.0061 *
Moon	92074-08-22 21:36 G	35350632.39	35350632.40	35350632.45	0.0088	0.0088
Earth	92074-08-22 23:17 G	35350632.41	35350632.47	35350632.58	0.0088	0.0084 *
Jupiter	92074-09-20 15:07 G	35350660.63	35350661.13	35350661.64	0.0088	0.0029
Mercury	92102-02-08 05:31 G	35360662.69	35360662.73	35360662.78	0.0088	0.0082
Mercury	92102-05-07 06:58 G	35360750.72	35360750.79	35360750.85	0.0088	0.0075
Mercury	92102-08-03 08:10 G	35360838.76	35360838.84	35360838.92	0.0088	0.0068
Mercury	92102-10-30 09:22 G	35360926.80	35360926.89	35360926.99	0.0088	0.0061
Mercury	92103-01-26 10:48 G	35361014.84	35361014.95	35361015.05	0.0088	0.0054



Mercury	92103-04-24 12:00 G	35361102.89	35361103.00	35361103.11	0.0088	0.0047
Mars	92103-04-28 02:38 G	35361106.47	35361106.61	35361106.81	0.0088	0.0077
Mercury	92103-07-21 13:26 G	35361190.94	35361191.06	35361191.18	0.0088	0.0040
Mercury	92103-10-17 14:38 G	35361278.99	35361279.11	35361279.23	0.0088	0.0033
Mercury	92104-01-13 15:50 G	35361367.04	35361367.16	35361367.29	0.0088	0.0026
Mercury	92104-04-10 17:17 G	35361455.09	35361455.22	35361455.35	0.0088	0.0019
Mercury	92104-07-07 18:29 G	35361543.14	35361543.27	35361543.41	0.0088	0.0012
Mercury	92104-10-03 19:55 G	35361631.19	35361631.33	35361631.46	0.0088	0.0005
Mercury	92104-12-30 21:07 G	35361719.25	35361719.38	35361719.52	0.0088	0.0003
Mars	92105-03-24 14:24 G	35361802.84	35361803.10	35361803.40	0.0088	0.0052
Mercury	92105-03-28 22:34 G	35361807.30	35361807.44	35361807.57	0.0088	0.0010
Mercury	92105-06-24 23:46 G	35361895.36	35361895.49	35361895.62	0.0088	0.0017
Mercury	92105-09-21 01:12 G	35361983.42	35361983.55	35361983.68	0.0088	0.0024
Mercury	92105-12-18 02:24 G	35362071.48	35362071.60	35362071.73	0.0088	0.0031
Mercury	92106-03-16 03:36 G	35362159.54	35362159.65	35362159.78	0.0088	0.0038
Mercury	92106-06-12 04:48 G	35362247.60	35362247.70	35362247.83	0.0088	0.0046
Mercury	92106-09-08 06:14 G	35362335.66	35362335.76	35362335.88	0.0088	0.0053
Mercury	92106-12-05 07:41 G	35362423.73	35362423.82	35362423.92	0.0088	0.0060
Mercury	92107-03-03 08:53 G	35362511.79	35362511.87	35362511.97	0.0088	0.0067
Mercury	92107-05-30 10:19 G	35362599.86	35362599.93	35362600.01	0.0088	0.0074
Mercury	92107-08-26 11:31 G	35362687.94	35362687.98	35362688.04	0.0088	0.0081
Venus	92140-03-08 12:43 G	35374570.97	35374571.03	35374571.13	0.0088	0.0083
Venus	92140-10-20 01:55 G	35374796.47	35374796.58	35374796.73	0.0088	0.0072
Venus	92141-06-02 15:22 G	35375021.99	35375022.14	35375022.30	0.0088	0.0062
Venus	92142-01-14 04:05 G	35375247.51	35375247.67	35375247.87	0.0088	0.0052
Venus	92142-08-27 17:31 G	35375473.04	35375473.23	35375473.43	0.0088	0.0041
Venus	92143-04-10 06:29 G	35375698.57	35375698.77	35375698.99	0.0088	0.0030
Venus	92143-11-21 19:41 G	35375924.11	35375924.32	35375924.54	0.0088	0.0020
Venus	92144-07-04 08:38 G	35376149.65	35376149.86	35376150.09	0.0088	0.0010
Venus	92145-02-14 21:50 G	35376375.19	35376375.41	35376375.63	0.0088	0.0001

Venus	92145-09-28 10:34 G	35376600.73	35376600.94	35376601.17	0.0088	0.0013
Venus	92146-05-11 23:46 G	35376826.28	35376826.49	35376826.71	0.0088	0.0022
Venus	92146-12-23 12:29 G	35377051.83	35377052.02	35377052.24	0.0088	0.0034
Venus	92147-08-06 01:41 G	35377277.39	35377277.57	35377277.77	0.0089	0.0044
Venus	92148-03-18 14:53 G	35377502.95	35377503.12	35377503.29	0.0089	0.0054
Venus	92148-10-30 03:36 G	35377728.52	35377728.65	35377728.82	0.0089	0.0065
Earth	92149-02-05 07:12 G	35377826.71	35377826.80	35377826.92	0.0089	0.0081
Moon	92149-02-05 07:26 G	35377826.73	35377826.81	35377826.94	0.0089	0.0081 *
Venus	92149-06-12 16:48 G	35377954.09	35377954.20	35377954.32	0.0089	0.0075
Venus	92150-01-24 05:31 G	35378179.69	35378179.73	35378179.81	0.0089	0.0086
Moon	92150-02-07 18:29 G	35378194.11	35378194.27	35378194.48	0.0089	0.0064
Earth	92150-02-07 19:41 G	35378194.16	35378194.32	35378194.53	0.0089	0.0063 *
Earth	92151-02-10 08:38 G	35378561.64	35378561.86	35378562.10	0.0089	0.0044
Moon	92151-02-10 11:02 G	35378561.76	35378561.96	35378562.20	0.0089	0.0043 *
Moon	92152-02-12 18:00 G	35378929.00	35378929.25	35378929.51	0.0089	0.0026
Earth	92152-02-12 21:22 G	35378929.14	35378929.39	35378929.64	0.0089	0.0025 *
Earth	92153-02-14 09:50 G	35379296.66	35379296.91	35379297.18	0.0089	0.0007
Moon	92153-02-14 13:26 G	35379296.81	35379297.06	35379297.32	0.0089	0.0004 *
Moon	92154-02-16 18:58 G	35379664.04	35379664.29	35379664.55	0.0089	0.0011
Earth	92154-02-16 22:34 G	35379664.19	35379664.44	35379664.71	0.0089	0.0013 *
Earth	92155-02-19 11:02 G	35380031.72	35380031.96	35380032.21	0.0089	0.0031
Moon	92155-02-19 14:10 G	35380031.84	35380032.09	35380032.33	0.0089	0.0033 *
Moon	92156-02-21 21:07 G	35380399.17	35380399.38	35380399.60	0.0089	0.0047
Earth	92156-02-21 23:17 G	35380399.27	35380399.47	35380399.70	0.0089	0.0050 *
Earth	92157-02-23 11:31 G	35380766.84	35380766.98	35380767.17	0.0089	0.0069
Moon	92157-02-23 12:29 G	35380766.89	35380767.02	35380767.21	0.0089	0.0071 *
Moon	92158-02-26 00:14 G	35381134.46	35381134.51	35381134.61	0.0089	0.0085
Earth	92158-02-26 00:00 G	35381134.47	35381134.50	35381134.58	0.0089	0.0087 *
Saturn	92168-12-15 08:10 G	35385079.15	35385079.84	35385080.54	0.0089	0.0004
Mercury	92185-07-28 14:24 G	35391149.06	35391149.10	35391149.15	0.0090	0.0087

Mercury	92185-10-24 18:00 G	35391237.16	35391237.25	35391237.36	0.0090	0.0076
Mercury	92186-01-20 21:36 G	35391325.28	35391325.40	35391325.54	0.0090	0.0065
Mercury	92186-04-19 01:12 G	35391413.40	35391413.55	35391413.71	0.0090	0.0054
Mercury	92186-07-16 05:02 G	35391501.54	35391501.71	35391501.88	0.0090	0.0043
Mercury	92186-10-12 08:38 G	35391589.68	35391589.86	35391590.04	0.0090	0.0032
Mercury	92187-01-08 12:00 G	35391677.82	35391678.00	35391678.20	0.0090	0.0022
Mars	92187-01-13 02:38 G	35391682.33	35391682.61	35391682.90	0.0090	0.0007
Mercury	92187-04-06 15:36 G	35391765.97	35391766.15	35391766.35	0.0090	0.0011
Mercury	92187-07-03 19:26 G	35391854.12	35391854.31	35391854.50	0.0090	0.0001
Mercury	92187-09-29 22:48 G	35391942.27	35391942.45	35391942.65	0.0090	0.0012
Mercury	92187-12-27 02:24 G	35392030.42	35392030.60	35392030.79	0.0090	0.0022
Mercury	92188-03-24 06:00 G	35392118.58	35392118.75	35392118.93	0.0090	0.0033
Mercury	92188-06-20 09:36 G	35392206.74	35392206.90	35392207.07	0.0090	0.0044
Mercury	92188-09-16 12:58 G	35392294.90	35392295.04	35392295.20	0.0090	0.0055
Mercury	92188-12-13 16:19 G	35392383.07	35392383.18	35392383.33	0.0090	0.0066
Mercury	92189-03-11 20:10 G	35392471.25	35392471.34	35392471.44	0.0090	0.0076
Mercury	92189-06-07 23:31 G	35392559.45	35392559.48	35392559.53	0.0090	0.0087
Venus	92221-01-28 17:02 G	35404116.17	35404116.21	35404116.29	0.0089	0.0086
Venus	92221-09-11 05:46 G	35404341.65	35404341.74	35404341.88	0.0089	0.0075
Venus	92222-04-24 18:58 G	35404567.15	35404567.29	35404567.45	0.0089	0.0064
Venus	92222-12-06 07:41 G	35404792.67	35404792.82	35404793.01	0.0089	0.0054
Venus	92223-07-19 20:38 G	35405018.19	35405018.36	35405018.57	0.0089	0.0044
Venus	92224-03-01 09:50 G	35405243.71	35405243.91	35405244.11	0.0089	0.0032
Venus	92224-10-12 22:34 G	35405469.24	35405469.44	35405469.66	0.0089	0.0022
Venus	92225-05-26 11:46 G	35405694.77	35405694.99	35405695.21	0.0089	0.0011
Venus	92226-01-07 00:43 G	35405920.31	35405920.53	35405920.75	0.0089	0.0001
Venus	92226-08-20 13:41 G	35406145.85	35406146.07	35406146.29	0.0089	0.0010
Venus	92227-04-03 02:24 G	35406371.40	35406371.60	35406371.82	0.0089	0.0021
Venus	92227-11-14 15:22 G	35406596.95	35406597.14	35406597.36	0.0089	0.0032
Venus	92228-06-27 04:34 G	35406822.50	35406822.69	35406822.89	0.0089	0.0042

Venus	92229-02-07 17:17 G	35407048.06	35407048.22	35407048.41	0.0089	0.0053
Earth	92229-08-04 05:31 G	35407225.71	35407225.73	35407225.82	0.0089	0.0087
Venus	92229-09-21 06:29 G	35407273.63	35407273.77	35407273.93	0.0089	0.0063
Venus	92230-05-04 19:26 G	35407499.20	35407499.31	35407499.45	0.0089	0.0074
Earth	92230-08-06 16:48 G	35407593.05	35407593.20	35407593.37	0.0089	0.0068
Moon	92230-08-06 17:17 G	35407593.07	35407593.22	35407593.40	0.0089	0.0066 *
Venus	92230-12-16 08:38 G	35407724.80	35407724.86	35407724.93	0.0089	0.0084
Moon	92231-08-09 01:26 G	35407960.36	35407960.56	35407960.78	0.0089	0.0053
Earth	92231-08-09 03:36 G	35407960.45	35407960.65	35407960.87	0.0089	0.0050 *
Earth	92232-08-10 14:10 G	35408327.87	35408328.09	35408328.35	0.0089	0.0032
Moon	92232-08-10 17:17 G	35408327.99	35408328.22	35408328.47	0.0089	0.0029 *
Moon	92233-08-12 21:50 G	35408695.16	35408695.41	35408695.67	0.0089	0.0016
Earth	92233-08-13 00:58 G	35408695.30	35408695.54	35408695.81	0.0089	0.0014 *
Earth	92234-08-15 12:00 G	35409062.74	35409063.00	35409063.25	0.0089	0.0005
Moon	92234-08-15 15:36 G	35409062.90	35409063.15	35409063.41	0.0089	0.0008 *
Moon	92235-08-17 19:26 G	35409430.08	35409430.31	35409430.57	0.0089	0.0021
Earth	92235-08-17 22:19 G	35409430.20	35409430.43	35409430.69	0.0089	0.0024 *
Earth	92236-08-19 08:53 G	35409797.66	35409797.87	35409798.12	0.0088	0.0042
Moon	92236-08-19 12:00 G	35409797.77	35409798.00	35409798.23	0.0088	0.0043 *
Moon	92237-08-21 18:14 G	35410165.09	35410165.26	35410165.47	0.0088	0.0058
Earth	92237-08-21 19:41 G	35410165.15	35410165.32	35410165.53	0.0088	0.0060 *
Earth	92238-08-24 06:29 G	35410532.67	35410532.77	35410532.91	0.0088	0.0078
Moon	92238-08-24 06:43 G	35410532.67	35410532.78	35410532.90	0.0088	0.0080 *
Mercury	92266-08-10 03:22 G	35420745.64	35420745.64	35420745.66	0.0088	0.0087
Mercury	92266-11-06 04:34 G	35420833.65	35420833.69	35420833.75	0.0088	0.0081
Mercury	92267-02-02 05:46 G	35420921.69	35420921.74	35420921.83	0.0088	0.0074
Mercury	92267-05-01 07:12 G	35421009.73	35421009.80	35421009.90	0.0088	0.0067
Mercury	92267-07-28 08:24 G	35421097.77	35421097.85	35421097.96	0.0088	0.0060
Mercury	92267-10-24 09:50 G	35421185.81	35421185.91	35421186.03	0.0088	0.0052
Mercury	92268-01-20 11:02 G	35421273.86	35421273.96	35421274.09	0.0088	0.0046

Mercury	92268-04-17 12:29 G	35421361.91	35421362.02	35421362.15	0.0088	0.0038
Mercury	92268-07-14 13:55 G	35421449.96	35421450.08	35421450.21	0.0088	0.0031
Mercury	92268-10-10 15:07 G	35421538.01	35421538.13	35421538.26	0.0088	0.0024
Mars	92268-11-05 15:07 G	35421563.78	35421564.13	35421564.48	0.0088	0.0001
Mercury	92269-01-06 16:34 G	35421626.06	35421626.19	35421626.32	0.0088	0.0017
Mercury	92269-04-04 17:46 G	35421714.11	35421714.24	35421714.38	0.0088	0.0010
Mercury	92269-07-01 19:12 G	35421802.16	35421802.30	35421802.43	0.0088	0.0003
Mercury	92269-09-27 20:24 G	35421890.22	35421890.35	35421890.49	0.0088	0.0005
Mercury	92269-12-24 21:50 G	35421978.27	35421978.41	35421978.54	0.0088	0.0012
Mercury	92270-03-22 23:02 G	35422066.33	35422066.46	35422066.59	0.0088	0.0019
Mercury	92270-06-19 00:29 G	35422154.39	35422154.52	35422154.65	0.0088	0.0026
Mercury	92270-09-15 01:41 G	35422242.45	35422242.57	35422242.70	0.0088	0.0033
Mercury	92270-12-12 03:07 G	35422330.51	35422330.63	35422330.75	0.0088	0.0040
Mercury	92271-03-10 04:05 G	35422418.57	35422418.67	35422418.80	0.0088	0.0048
Mercury	92271-06-06 05:31 G	35422506.63	35422506.73	35422506.84	0.0088	0.0054
Mercury	92271-09-02 06:43 G	35422594.70	35422594.78	35422594.89	0.0088	0.0062
Mercury	92271-11-29 08:10 G	35422682.77	35422682.84	35422682.93	0.0088	0.0069
Mercury	92272-02-25 09:36 G	35422770.84	35422770.90	35422770.97	0.0088	0.0076
Mercury	92272-05-23 11:02 G	35422858.92	35422858.96	35422859.00	0.0088	0.0083
Venus	92304-06-11 21:07 G	35434565.35	35434565.38	35434565.43	0.0088	0.0086
Venus	92305-01-23 10:05 G	35434790.83	35434790.92	35434791.05	0.0088	0.0076
Venus	92305-09-05 23:31 G	35435016.34	35435016.48	35435016.63	0.0088	0.0066
Venus	92306-04-19 12:29 G	35435241.86	35435242.02	35435242.20	0.0088	0.0055
Venus	92306-12-01 01:55 G	35435467.39	35435467.58	35435467.77	0.0088	0.0045
Venus	92307-07-14 14:53 G	35435692.92	35435693.12	35435693.33	0.0088	0.0034
Venus	92308-02-25 04:05 G	35435918.46	35435918.67	35435918.89	0.0088	0.0024
Venus	92308-10-07 17:02 G	35436144.00	35436144.21	35436144.44	0.0088	0.0013
Venus	92309-05-21 06:14 G	35436369.54	35436369.76	35436369.98	0.0088	0.0003
Venus	92310-01-01 19:12 G	35436595.08	35436595.30	35436595.52	0.0088	0.0008
Venus	92310-08-15 08:10 G	35436820.63	35436820.84	35436821.06	0.0088	0.0019

Venus	92311-03-28 20:53 G	35437046.18	35437046.37	35437046.60	0.0088	0.0030
Venus	92311-11-09 10:05 G	35437271.74	35437271.92	35437272.13	0.0088	0.0040
Venus	92312-06-21 23:02 G	35437497.30	35437497.46	35437497.66	0.0088	0.0050
Venus	92313-02-02 12:00 G	35437722.86	35437723.00	35437723.18	0.0089	0.0061
Moon	92313-02-06 09:22 G	35437726.81	35437726.89	35437727.00	0.0089	0.0082
Earth	92313-02-06 11:46 G	35437726.96	35437726.99	35437727.06	0.0089	0.0087 *
Venus	92313-09-16 01:12 G	35437948.43	35437948.55	35437948.69	0.0089	0.0071
Earth	92314-02-09 00:00 G	35438094.37	35438094.50	35438094.70	0.0089	0.0069
Moon	92314-02-09 03:07 G	35438094.50	35438094.63	35438094.79	0.0089	0.0073 *
Venus	92314-04-29 13:41 G	35438174.01	35438174.07	35438174.18	0.0089	0.0082
Moon	92315-02-11 09:22 G	35438461.67	35438461.89	35438462.13	0.0089	0.0045
Earth	92315-02-11 12:58 G	35438461.84	35438462.04	35438462.27	0.0089	0.0050 *
Earth	92316-02-14 01:55 G	35438829.33	35438829.58	35438829.82	0.0089	0.0031
Moon	92316-02-14 05:17 G	35438829.49	35438829.72	35438829.96	0.0089	0.0036 *
Moon	92317-02-15 11:17 G	35439196.72	35439196.97	35439197.23	0.0089	0.0008
Earth	92317-02-15 14:24 G	35439196.85	35439197.10	35439197.37	0.0089	0.0013 *
Earth	92318-02-18 03:07 G	35439564.37	35439564.63	35439564.89	0.0089	0.0006
Moon	92318-02-18 06:00 G	35439564.48	35439564.75	35439565.02	0.0089	0.0002 *
Moon	92319-02-20 14:10 G	35439931.87	35439932.09	35439932.34	0.0089	0.0030
Earth	92319-02-20 15:36 G	35439931.91	35439932.15	35439932.41	0.0089	0.0025 *
Earth	92320-02-23 04:05 G	35440299.46	35440299.67	35440299.91	0.0089	0.0044
Moon	92320-02-23 04:34 G	35440299.47	35440299.69	35440299.95	0.0089	0.0040 *
Earth	92321-02-24 17:02 G	35440667.02	35440667.21	35440667.39	0.0089	0.0062
Moon	92321-02-24 17:31 G	35440667.08	35440667.23	35440667.40	0.0089	0.0067 *
Moon	92322-02-27 03:07 G	35441034.50	35441034.63	35441034.77	0.0089	0.0076
Earth	92322-02-27 05:02 G	35441034.63	35441034.71	35441034.83	0.0089	0.0081 *
Mercury	92350-04-26 11:02 G	35451319.93	35451319.96	35451320.04	0.0090	0.0086
Mercury	92350-07-23 14:53 G	35451408.03	35451408.12	35451408.24	0.0090	0.0075
Mars	92350-08-30 13:41 G	35451445.82	35451446.07	35451446.33	0.0090	0.0039
Mercury	92350-10-19 18:29 G	35451496.15	35451496.27	35451496.42	0.0090	0.0064

Mercury	92351-01-15 22:05 G	35451584.28	35451584.42	35451584.59	0.0090	0.0053
Mercury	92351-04-14 01:55 G	35451672.42	35451672.58	35451672.76	0.0090	0.0042
Mercury	92351-07-11 05:31 G	35451760.56	35451760.73	35451760.92	0.0090	0.0031
Mercury	92351-10-07 09:07 G	35451848.70	35451848.88	35451849.08	0.0090	0.0020
Mercury	92352-01-03 12:58 G	35451936.85	35451937.04	35451937.23	0.0090	0.0009
Mercury	92352-03-31 16:34 G	35452025.00	35452025.19	35452025.38	0.0090	0.0002
Mercury	92352-06-27 20:10 G	35452113.15	35452113.34	35452113.53	0.0090	0.0013
Mars	92352-07-24 00:58 G	35452139.39	35452139.54	35452139.73	0.0090	0.0071
Mercury	92352-09-23 23:46 G	35452201.30	35452201.49	35452201.67	0.0090	0.0024
Mercury	92352-12-21 03:07 G	35452289.46	35452289.63	35452289.81	0.0090	0.0035
Mercury	92353-03-19 06:29 G	35452377.62	35452377.77	35452377.95	0.0090	0.0046
Mercury	92353-06-15 10:05 G	35452465.79	35452465.92	35452466.08	0.0090	0.0057
Mercury	92353-09-11 13:55 G	35452553.96	35452554.08	35452554.21	0.0090	0.0067
Mercury	92353-12-08 17:17 G	35452642.14	35452642.22	35452642.32	0.0090	0.0078
Mercury	92354-03-06 20:38 G	35452730.35	35452730.36	35452730.40	0.0090	0.0089
Venus	92385-12-14 14:38 G	35464336.03	35464336.11	35464336.23	0.0089	0.0079
Venus	92386-07-28 03:36 G	35464561.53	35464561.65	35464561.80	0.0089	0.0069
Venus	92387-03-10 16:19 G	35464787.04	35464787.18	35464787.37	0.0089	0.0058
Venus	92387-10-22 05:31 G	35465012.55	35465012.73	35465012.92	0.0089	0.0047
Venus	92388-06-03 18:43 G	35465238.08	35465238.28	35465238.48	0.0089	0.0037
Venus	92389-01-15 07:26 G	35465463.61	35465463.81	35465464.02	0.0089	0.0026
Venus	92389-08-28 20:24 G	35465689.14	35465689.35	35465689.57	0.0089	0.0015
Venus	92390-04-11 09:22 G	35465914.67	35465914.89	35465915.11	0.0089	0.0005
Venus	92390-11-22 22:19 G	35466140.21	35466140.43	35466140.65	0.0089	0.0006
Venus	92391-07-06 11:17 G	35466365.76	35466365.97	35466366.19	0.0089	0.0017
Venus	92392-02-17 00:00 G	35466591.30	35466591.50	35466591.72	0.0089	0.0028
Venus	92392-09-29 12:58 G	35466816.85	35466817.04	35466817.25	0.0089	0.0038
Venus	92393-05-13 01:55 G	35467042.42	35467042.58	35467042.78	0.0089	0.0049
Venus	92393-12-24 15:22 G	35467267.98	35467268.14	35467268.30	0.0089	0.0059
Moon	92394-08-06 20:53 G	35467493.27	35467493.37	35467493.53	0.0089	0.0077

Earth	92394-08-06 23:17 G	35467493.36	35467493.47	35467493.64	0.0089	0.0074	*
Venus	92394-08-07 04:05 G	35467493.55	35467493.67	35467493.82	0.0089	0.0070	*
Venus	92395-03-20 16:48 G	35467719.13	35467719.20	35467719.31	0.0089	0.0081	
Earth	92395-08-09 10:19 G	35467860.75	35467860.93	35467861.15	0.0089	0.0056	
Moon	92395-08-09 13:41 G	35467860.88	35467861.07	35467861.28	0.0089	0.0052	*
Moon	92396-08-10 17:31 G	35468228.02	35468228.23	35468228.47	0.0089	0.0041	
Earth	92396-08-10 21:07 G	35468228.17	35468228.38	35468228.63	0.0089	0.0038	*
Earth	92397-08-13 08:10 G	35468595.59	35468595.84	35468596.09	0.0089	0.0019	
Moon	92397-08-13 11:17 G	35468595.73	35468595.97	35468596.24	0.0089	0.0016	*
Moon	92398-08-15 15:50 G	35468962.92	35468963.16	35468963.42	0.0089	0.0005	
Earth	92398-08-15 18:58 G	35468963.04	35468963.29	35468963.55	0.0089	0.0001	*
Earth	92399-08-18 05:31 G	35469330.49	35469330.73	35469330.99	0.0089	0.0018	
Moon	92399-08-18 07:26 G	35469330.55	35469330.81	35469331.07	0.0089	0.0021	*
Moon	92400-08-19 15:07 G	35469697.92	35469698.13	35469698.38	0.0089	0.0033	
Earth	92400-08-19 16:19 G	35469697.95	35469698.18	35469698.42	0.0089	0.0036	*
Moon	92401-08-22 02:24 G	35470065.41	35470065.60	35470065.81	0.0089	0.0058	
Earth	92401-08-22 02:53 G	35470065.43	35470065.62	35470065.83	0.0089	0.0054	*
Earth	92402-08-24 12:58 G	35470432.93	35470433.04	35470433.22	0.0088	0.0073	
Moon	92402-08-24 15:36 G	35470433.00	35470433.15	35470433.31	0.0088	0.0069	*
Mercury	92431-05-08 02:38 G	35480916.60	35480916.61	35480916.65	0.0088	0.0086	
Mercury	92431-08-04 03:50 G	35481004.62	35481004.66	35481004.73	0.0088	0.0079	
Mercury	92431-10-31 05:17 G	35481092.65	35481092.72	35481092.80	0.0088	0.0072	
Mercury	92432-01-27 06:29 G	35481180.69	35481180.77	35481180.87	0.0088	0.0065	
Mercury	92432-04-24 07:55 G	35481268.74	35481268.83	35481268.94	0.0088	0.0058	
Mars	92432-06-19 14:38 G	35481324.85	35481325.11	35481325.42	0.0088	0.0051	
Mercury	92432-07-21 09:07 G	35481356.78	35481356.88	35481357.00	0.0088	0.0051	
Mercury	92432-10-17 10:34 G	35481444.83	35481444.94	35481445.06	0.0088	0.0043	
Mercury	92433-01-13 11:46 G	35481532.88	35481532.99	35481533.12	0.0088	0.0037	
Mercury	92433-04-11 13:12 G	35481620.93	35481621.05	35481621.18	0.0088	0.0029	
Mercury	92433-07-08 14:24 G	35481708.98	35481709.10	35481709.24	0.0088	0.0023	



Mercury	92433-10-04 15:50 G	35481797.03	35481797.16	35481797.29	0.0088	0.0015
Mercury	92433-12-31 17:02 G	35481885.08	35481885.21	35481885.35	0.0088	0.0009
Mercury	92434-03-29 18:29 G	35481973.13	35481973.27	35481973.40	0.0088	0.0001
Mars	92434-05-17 02:38 G	35482021.45	35482021.61	35482021.78	0.0088	0.0077
Mercury	92434-06-25 19:41 G	35482061.19	35482061.32	35482061.46	0.0088	0.0007
Mercury	92434-09-21 21:07 G	35482149.25	35482149.38	35482149.51	0.0088	0.0013
Mercury	92434-12-18 22:19 G	35482237.30	35482237.43	35482237.56	0.0088	0.0020
Mercury	92435-03-16 23:31 G	35482325.36	35482325.48	35482325.61	0.0088	0.0028
Mercury	92435-06-13 00:58 G	35482413.42	35482413.54	35482413.67	0.0088	0.0035
Mercury	92435-09-09 02:10 G	35482501.48	35482501.59	35482501.71	0.0088	0.0042
Mercury	92435-12-06 03:36 G	35482589.54	35482589.65	35482589.76	0.0088	0.0049
Mercury	92436-03-03 04:34 G	35482677.60	35482677.69	35482677.81	0.0088	0.0057
Mercury	92436-05-30 06:00 G	35482765.67	35482765.75	35482765.85	0.0088	0.0064
Mercury	92436-08-26 07:26 G	35482853.74	35482853.81	35482853.90	0.0088	0.0071
Mercury	92436-11-22 08:38 G	35482941.81	35482941.86	35482941.93	0.0088	0.0078
Mercury	92437-02-18 10:05 G	35483029.90	35483029.92	35483029.96	0.0088	0.0085
Venus	92469-04-26 18:14 G	35494785.19	35494785.26	35494785.37	0.0088	0.0080
Venus	92469-12-08 07:26 G	35495010.70	35495010.81	35495010.96	0.0088	0.0070
Venus	92470-07-21 20:38 G	35495236.21	35495236.36	35495236.54	0.0088	0.0060
Venus	92471-03-04 09:36 G	35495461.74	35495461.90	35495462.11	0.0088	0.0050
Venus	92471-10-15 23:02 G	35495687.27	35495687.46	35495687.67	0.0088	0.0039
Venus	92472-05-28 12:00 G	35495912.81	35495913.00	35495913.23	0.0088	0.0029
Venus	92473-01-09 01:12 G	35496138.34	35496138.55	35496138.78	0.0088	0.0018
Venus	92473-08-22 14:24 G	35496363.88	35496364.10	35496364.32	0.0088	0.0007
Venus	92474-04-05 03:22 G	35496589.43	35496589.64	35496589.87	0.0088	0.0005
Venus	92474-11-16 16:34 G	35496814.98	35496815.19	35496815.42	0.0088	0.0015
Venus	92475-06-30 05:46 G	35497040.53	35497040.74	35497040.95	0.0088	0.0025
Venus	92476-02-10 18:29 G	35497266.08	35497266.27	35497266.48	0.0088	0.0035
Venus	92476-09-23 07:26 G	35497491.63	35497491.81	35497492.01	0.0088	0.0046
Venus	92477-05-06 20:10 G	35497717.19	35497717.34	35497717.53	0.0088	0.0057

Venus	92477-12-18 09:22 G	35497942.76	35497942.89	35497943.05	0.0089	0.0067
Moon	92478-02-08 00:58 G	35497994.42	35497994.54	35497994.69	0.0089	0.0075
Earth	92478-02-08 04:05 G	35497994.56	35497994.67	35497994.84	0.0089	0.0075 *
Venus	92478-07-31 22:05 G	35498168.34	35498168.42	35498168.55	0.0089	0.0078
Earth	92479-02-10 17:02 G	35498362.02	35498362.21	35498362.42	0.0089	0.0056
Moon	92479-02-10 20:24 G	35498362.17	35498362.35	35498362.57	0.0089	0.0057 *
Venus	92479-03-14 11:02 G	35498393.95	35498393.96	35498394.01	0.0089	0.0088
Moon	92480-02-13 03:07 G	35498729.40	35498729.63	35498729.86	0.0089	0.0038
Earth	92480-02-13 05:17 G	35498729.51	35498729.72	35498729.98	0.0089	0.0038 *
Earth	92481-02-14 18:14 G	35499097.01	35499097.26	35499097.52	0.0089	0.0019
Moon	92481-02-14 20:10 G	35499097.09	35499097.34	35499097.61	0.0089	0.0019 *
Moon	92482-02-17 05:46 G	35499464.49	35499464.74	35499464.99	0.0089	0.0001
Earth	92482-02-17 06:58 G	35499464.53	35499464.79	35499465.05	0.0089	0.0001 *
Moon	92483-02-19 18:29 G	35499832.02	35499832.27	35499832.54	0.0089	0.0019
Earth	92483-02-19 19:12 G	35499832.05	35499832.30	35499832.56	0.0089	0.0019 *
Earth	92484-02-22 07:41 G	35500199.60	35500199.82	35500200.07	0.0089	0.0038
Moon	92484-02-22 09:07 G	35500199.67	35500199.88	35500200.12	0.0089	0.0038 *
Moon	92485-02-23 18:00 G	35500567.05	35500567.25	35500567.47	0.0089	0.0055
Earth	92485-02-23 20:24 G	35500567.17	35500567.35	35500567.57	0.0089	0.0056 *
Earth	92486-02-26 08:24 G	35500934.74	35500934.85	35500935.02	0.0089	0.0075
Moon	92486-02-26 12:14 G	35500934.89	35500935.01	35500935.16	0.0089	0.0075 *
Saturn	92491-10-24 23:31 G	35503001.45	35503001.48	35503001.65	0.0089	0.0088
Mars	92514-04-15 21:36 G	35511209.33	35511209.40	35511209.51	0.0090	0.0085
Mercury	92515-01-22 07:55 G	35511490.79	35511490.83	35511490.92	0.0090	0.0085
Mercury	92515-04-20 11:46 G	35511578.90	35511578.99	35511579.12	0.0090	0.0074
Mercury	92515-07-17 15:22 G	35511667.02	35511667.14	35511667.30	0.0090	0.0063
Mercury	92515-10-13 18:58 G	35511755.15	35511755.29	35511755.47	0.0090	0.0052
Mercury	92516-01-09 22:48 G	35511843.29	35511843.45	35511843.63	0.0090	0.0041
Mars	92516-03-09 11:17 G	35511902.70	35511902.97	35511903.24	0.0090	0.0024
Mercury	92516-04-07 02:24 G	35511931.43	35511931.60	35511931.79	0.0090	0.0030

Mercury	92516-07-04 06:14 G	35512019.57	35512019.76	35512019.95	0.0090	0.0019
Mercury	92516-09-30 09:50 G	35512107.72	35512107.91	35512108.10	0.0090	0.0008
Mercury	92516-12-27 13:26 G	35512195.87	35512196.06	35512196.25	0.0090	0.0003
Mercury	92517-03-25 17:02 G	35512284.02	35512284.21	35512284.40	0.0090	0.0014
Mercury	92517-06-21 20:38 G	35512372.18	35512372.36	35512372.54	0.0090	0.0025
Mercury	92517-09-18 00:00 G	35512460.33	35512460.50	35512460.68	0.0090	0.0036
Mercury	92517-12-15 03:22 G	35512548.49	35512548.64	35512548.82	0.0090	0.0047
Mercury	92518-03-13 06:58 G	35512636.66	35512636.79	35512636.95	0.0090	0.0058
Mercury	92518-06-09 10:48 G	35512724.83	35512724.95	35512725.08	0.0090	0.0068
Mercury	92518-09-05 14:10 G	35512813.01	35512813.09	35512813.19	0.0090	0.0079
Mercury	92518-12-02 17:46 G	35512901.24	35512901.24	35512901.26	0.0090	0.0089
Venus	92550-03-18 22:48 G	35524330.39	35524330.45	35524330.54	0.0089	0.0083
Venus	92550-10-30 11:31 G	35524555.88	35524555.98	35524556.13	0.0089	0.0073
Venus	92551-06-13 00:43 G	35524781.39	35524781.53	35524781.70	0.0089	0.0062
Venus	92552-01-24 13:55 G	35525006.90	35525007.08	35525007.26	0.0089	0.0052
Venus	92552-09-06 02:24 G	35525232.42	35525232.60	35525232.81	0.0089	0.0041
Venus	92553-04-19 15:36 G	35525457.95	35525458.15	35525458.36	0.0089	0.0030
Venus	92553-12-01 04:19 G	35525683.48	35525683.68	35525683.91	0.0089	0.0020
Venus	92554-07-14 17:31 G	35525909.01	35525909.23	35525909.45	0.0089	0.0009
Venus	92555-02-25 06:29 G	35526134.55	35526134.77	35526134.99	0.0089	0.0002
Venus	92555-10-08 19:12 G	35526360.09	35526360.30	35526360.52	0.0089	0.0012
Venus	92556-05-21 08:10 G	35526585.64	35526585.84	35526586.06	0.0089	0.0023
Venus	92557-01-01 21:07 G	35526811.19	35526811.38	35526811.59	0.0089	0.0034
Venus	92557-08-15 10:05 G	35527036.74	35527036.92	35527037.12	0.0089	0.0044
Venus	92558-03-28 22:48 G	35527262.30	35527262.45	35527262.64	0.0089	0.0055
Earth	92558-08-07 05:02 G	35527393.62	35527393.71	35527393.84	0.0089	0.0080
Moon	92558-08-07 08:24 G	35527393.79	35527393.85	35527393.95	0.0089	0.0084 *
Venus	92558-11-09 11:46 G	35527487.86	35527487.99	35527488.16	0.0089	0.0066
Venus	92559-06-23 01:12 G	35527713.45	35527713.55	35527713.67	0.0089	0.0076
Moon	92559-08-09 12:29 G	35527760.84	35527761.02	35527761.23	0.0089	0.0058

Earth	92559-08-09 16:05 G	35527761.00	35527761.17	35527761.37	0.0089	0.0062	*
Venus	92560-02-03 13:41 G	35527939.05	35527939.07	35527939.14	0.0089	0.0087	
Earth	92560-08-11 02:53 G	35528128.42	35528128.62	35528128.86	0.0089	0.0044	
Moon	92560-08-11 06:00 G	35528128.56	35528128.75	35528128.99	0.0089	0.0048	*
Moon	92561-08-13 11:46 G	35528495.76	35528495.99	35528496.24	0.0089	0.0022	
Earth	92561-08-13 14:10 G	35528495.85	35528496.09	35528496.34	0.0089	0.0025	*
Earth	92562-08-16 00:58 G	35528863.29	35528863.54	35528863.80	0.0089	0.0007	
Moon	92562-08-16 02:53 G	35528863.36	35528863.62	35528863.88	0.0089	0.0010	*
Earth	92563-08-18 11:46 G	35529230.75	35529230.99	35529231.25	0.0089	0.0012	
Moon	92563-08-18 11:46 G	35529230.76	35529230.99	35529231.24	0.0089	0.0016	*
Moon	92564-08-19 21:22 G	35529598.15	35529598.39	35529598.65	0.0089	0.0027	
Earth	92564-08-19 22:19 G	35529598.21	35529598.43	35529598.69	0.0089	0.0031	*
Earth	92565-08-22 08:53 G	35529965.68	35529965.87	35529966.11	0.0089	0.0049	
Moon	92565-08-22 11:02 G	35529965.77	35529965.96	35529966.18	0.0089	0.0052	*
Moon	92566-08-24 16:19 G	35530333.02	35530333.18	35530333.39	0.0089	0.0063	
Earth	92566-08-24 19:41 G	35530333.18	35530333.32	35530333.52	0.0089	0.0067	*
Earth	92567-08-27 06:14 G	35530700.71	35530700.76	35530700.86	0.0088	0.0085	
Moon	92567-08-27 09:50 G	35530700.90	35530700.91	35530700.96	0.0088	0.0088	
Mercury	92596-02-03 02:10 G	35541087.55	35541087.59	35541087.62	0.0088	0.0084	
Mercury	92596-05-01 03:22 G	35541175.58	35541175.64	35541175.70	0.0088	0.0077	
Mercury	92596-07-28 04:19 G	35541263.62	35541263.68	35541263.77	0.0088	0.0071	
Mercury	92596-10-24 06:00 G	35541351.66	35541351.75	35541351.84	0.0088	0.0063	
Mercury	92597-01-20 07:12 G	35541439.70	35541439.80	35541439.90	0.0088	0.0056	
Mercury	92597-04-18 08:10 G	35541527.75	35541527.84	35541527.96	0.0088	0.0050	
Mercury	92597-07-15 09:50 G	35541615.79	35541615.91	35541616.03	0.0088	0.0042	
Mercury	92597-10-11 11:02 G	35541703.84	35541703.96	35541704.09	0.0088	0.0035	
Mars	92597-12-29 00:58 G	35541782.23	35541782.54	35541782.90	0.0088	0.0026	
Mercury	92598-01-07 12:29 G	35541791.89	35541792.02	35541792.14	0.0088	0.0028	
Mercury	92598-04-05 13:41 G	35541879.94	35541880.07	35541880.20	0.0088	0.0021	
Mercury	92598-07-02 15:07 G	35541967.99	35541968.13	35541968.26	0.0088	0.0014	

Mercury	92598-09-28 16:19 G	35542056.05	35542056.18	35542056.31	0.0088	0.0007
Mercury	92598-12-25 17:31 G	35542144.10	35542144.23	35542144.37	0.0088	0.0003
Mercury	92599-03-23 18:58 G	35542232.16	35542232.29	35542232.42	0.0088	0.0008
Mercury	92599-06-19 20:10 G	35542320.21	35542320.34	35542320.48	0.0088	0.0015
Mercury	92599-09-15 21:36 G	35542408.27	35542408.40	35542408.53	0.0088	0.0022
Mercury	92599-12-12 22:48 G	35542496.33	35542496.45	35542496.58	0.0088	0.0029
Mercury	92600-03-11 00:00 G	35542584.39	35542584.50	35542584.63	0.0088	0.0036
Mercury	92600-06-07 01:12 G	35542672.45	35542672.55	35542672.68	0.0088	0.0044
Mercury	92600-09-03 02:38 G	35542760.51	35542760.61	35542760.73	0.0088	0.0051
Mercury	92600-11-30 04:05 G	35542848.57	35542848.67	35542848.77	0.0088	0.0058
Mercury	92601-02-26 05:17 G	35542936.64	35542936.72	35542936.82	0.0088	0.0065
Mercury	92601-05-25 06:43 G	35543024.71	35543024.78	35543024.86	0.0088	0.0072
Mercury	92601-08-21 08:10 G	35543112.78	35543112.84	35543112.89	0.0088	0.0079
Mercury	92601-11-17 09:07 G	35543200.88	35543200.88	35543200.92	0.0088	0.0087
Venus	92633-07-31 02:24 G	35554779.56	35554779.60	35554779.68	0.0088	0.0085
Venus	92634-03-13 15:22 G	35555005.04	35555005.14	35555005.28	0.0088	0.0074
Venus	92634-10-25 05:02 G	35555230.56	35555230.71	35555230.87	0.0088	0.0063
Venus	92635-06-07 17:46 G	35555456.08	35555456.24	35555456.44	0.0088	0.0054
Venus	92636-01-19 07:12 G	35555681.61	35555681.80	35555682.00	0.0088	0.0043
Venus	92636-08-31 20:10 G	35555907.14	35555907.34	35555907.56	0.0088	0.0032
Venus	92637-04-14 09:22 G	35556132.68	35556132.89	35556133.11	0.0088	0.0022
Venus	92637-11-25 22:34 G	35556358.23	35556358.44	35556358.67	0.0088	0.0012
Venus	92638-07-09 11:46 G	35556583.77	35556583.99	35556584.22	0.0088	0.0002
Venus	92639-02-20 00:43 G	35556809.32	35556809.53	35556809.76	0.0088	0.0011
Venus	92639-10-03 13:55 G	35557034.87	35557035.08	35557035.30	0.0088	0.0021
Venus	92640-05-16 02:38 G	35557260.42	35557260.61	35557260.83	0.0088	0.0032
Venus	92640-12-27 16:05 G	35557485.98	35557486.17	35557486.36	0.0088	0.0042
Venus	92641-08-10 04:48 G	35557711.53	35557711.70	35557711.89	0.0088	0.0052
Earth	92642-02-09 09:07 G	35557894.78	35557894.88	35557895.00	0.0088	0.0080
Moon	92642-02-09 11:46 G	35557894.88	35557894.99	35557895.15	0.0088	0.0076 *

Venus	92642-03-23 17:46 G	35557937.10	35557937.24	35557937.41	0.0088	0.0063
Venus	92642-11-04 06:29 G	35558162.67	35558162.77	35558162.92	0.0088	0.0074
Moon	92643-02-11 18:29 G	35558262.13	35558262.27	35558262.47	0.0088	0.0067
Earth	92643-02-11 21:22 G	35558262.22	35558262.39	35558262.59	0.0088	0.0062 *
Venus	92643-06-17 19:41 G	35558388.27	35558388.32	35558388.41	0.0089	0.0084
Earth	92644-02-14 09:50 G	35558629.70	35558629.91	35558630.15	0.0089	0.0044
Moon	92644-02-14 11:02 G	35558629.74	35558629.96	35558630.22	0.0089	0.0039 *
Earth	92645-02-15 22:34 G	35558997.20	35558997.44	35558997.70	0.0089	0.0025
Moon	92645-02-15 22:48 G	35558997.21	35558997.45	35558997.69	0.0089	0.0029 *
Moon	92646-02-18 10:19 G	35559364.66	35559364.93	35559365.20	0.0089	0.0002
Earth	92646-02-18 11:02 G	35559364.70	35559364.96	35559365.22	0.0089	0.0006 *
Earth	92647-02-20 23:17 G	35559732.23	35559732.47	35559732.74	0.0089	0.0013
Moon	92647-02-21 01:55 G	35559732.33	35559732.58	35559732.83	0.0089	0.0008 *
Moon	92648-02-23 08:38 G	35560099.64	35560099.86	35560100.12	0.0089	0.0036
Earth	92648-02-23 12:00 G	35560099.77	35560100.00	35560100.25	0.0089	0.0031 *
Earth	92649-02-25 00:14 G	35560467.31	35560467.51	35560467.74	0.0089	0.0050
Moon	92649-02-25 03:50 G	35560467.45	35560467.66	35560467.89	0.0089	0.0045 *
Moon	92650-02-27 09:22 G	35560834.76	35560834.89	35560835.04	0.0089	0.0073
Earth	92650-02-27 12:58 G	35560834.89	35560835.04	35560835.22	0.0089	0.0068 *
Earth	92651-03-02 01:12 G	35561202.52	35561202.55	35561202.63	0.0089	0.0087
Moon	92651-03-02 04:34 G	35561202.61	35561202.69	35561202.80	0.0089	0.0082 *
Mercury	92679-10-20 04:48 G	35571661.66	35571661.70	35571661.80	0.0090	0.0084
Mars	92679-10-24 18:58 G	35571666.03	35571666.29	35571666.58	0.0090	0.0022
Mercury	92680-01-16 08:38 G	35571749.77	35571749.86	35571749.99	0.0090	0.0073
Mercury	92680-04-13 12:14 G	35571837.89	35571838.01	35571838.17	0.0090	0.0062
Mercury	92680-07-10 16:05 G	35571926.02	35571926.17	35571926.34	0.0090	0.0051
Mercury	92680-10-06 19:41 G	35572014.16	35572014.32	35572014.51	0.0090	0.0040
Mercury	92681-01-02 23:17 G	35572102.30	35572102.47	35572102.67	0.0090	0.0029
Mercury	92681-04-01 03:07 G	35572190.45	35572190.63	35572190.82	0.0090	0.0018
Mercury	92681-06-28 06:43 G	35572278.59	35572278.78	35572278.98	0.0090	0.0007

Mars	92681-09-17 07:26 G	35572359.77	35572359.81	35572359.90	0.0090	0.0087
Mercury	92681-09-24 10:19 G	35572366.74	35572366.93	35572367.13	0.0090	0.0005
Mercury	92681-12-21 13:55 G	35572454.90	35572455.08	35572455.27	0.0090	0.0015
Mercury	92682-03-19 17:31 G	35572543.05	35572543.23	35572543.42	0.0090	0.0026
Mercury	92682-06-15 21:07 G	35572631.21	35572631.38	35572631.56	0.0090	0.0037
Mercury	92682-09-12 00:29 G	35572719.37	35572719.52	35572719.69	0.0090	0.0048
Mercury	92682-12-09 03:50 G	35572807.54	35572807.66	35572807.82	0.0090	0.0059
Mercury	92683-03-07 07:41 G	35572895.71	35572895.82	35572895.95	0.0090	0.0069
Mercury	92683-06-03 11:02 G	35572983.89	35572983.96	35572984.06	0.0090	0.0080
Venus	92714-06-22 06:29 G	35584324.77	35584324.77	35584324.84	0.0089	0.0089
Venus	92715-02-02 19:41 G	35584550.23	35584550.32	35584550.45	0.0089	0.0078
Venus	92715-09-16 09:07 G	35584775.73	35584775.88	35584776.02	0.0089	0.0067
Venus	92716-04-28 21:36 G	35585001.25	35585001.40	35585001.59	0.0089	0.0057
Venus	92716-12-10 10:48 G	35585226.77	35585226.95	35585227.15	0.0089	0.0046
Venus	92717-07-23 23:31 G	35585452.29	35585452.48	35585452.70	0.0089	0.0035
Venus	92718-03-06 12:29 G	35585677.82	35585678.02	35585678.24	0.0089	0.0024
Venus	92718-10-18 01:41 G	35585903.35	35585903.57	35585903.78	0.0089	0.0013
Venus	92719-05-31 14:38 G	35586128.89	35586129.11	35586129.33	0.0089	0.0003
Venus	92720-01-12 03:36 G	35586354.43	35586354.65	35586354.87	0.0089	0.0008
Venus	92720-08-24 16:05 G	35586579.97	35586580.17	35586580.40	0.0089	0.0019
Venus	92721-04-07 05:17 G	35586805.52	35586805.72	35586805.93	0.0089	0.0029
Venus	92721-11-18 18:00 G	35587031.07	35587031.25	35587031.46	0.0089	0.0040
Venus	92722-07-02 06:58 G	35587256.62	35587256.79	35587256.98	0.0089	0.0051
Moon	92722-08-08 07:12 G	35587293.76	35587293.80	35587293.91	0.0089	0.0085
Earth	92722-08-08 10:48 G	35587293.91	35587293.95	35587294.03	0.0089	0.0086 *
Venus	92723-02-12 19:55 G	35587482.18	35587482.33	35587482.50	0.0089	0.0061
Earth	92723-08-10 21:22 G	35587661.25	35587661.39	35587661.58	0.0089	0.0068
Moon	92723-08-11 00:58 G	35587661.39	35587661.54	35587661.70	0.0089	0.0070 *
Venus	92723-09-26 08:38 G	35587707.75	35587707.86	35587708.01	0.0089	0.0072
Venus	92724-05-08 22:19 G	35587933.35	35587933.43	35587933.51	0.0089	0.0082

Moon	92724-08-12 06:29 G	35588028.58	35588028.77	35588029.00	0.0089	0.0048
Earth	92724-08-12 08:10 G	35588028.65	35588028.84	35588029.08	0.0089	0.0050 *
Earth	92725-08-14 19:26 G	35588396.08	35588396.31	35588396.56	0.0089	0.0031
Moon	92725-08-14 19:55 G	35588396.10	35588396.33	35588396.59	0.0089	0.0033 *
Earth	92726-08-17 06:29 G	35588763.52	35588763.77	35588764.03	0.0089	0.0013
Moon	92726-08-17 06:43 G	35588763.54	35588763.78	35588764.03	0.0089	0.0010 *
Moon	92727-08-19 15:36 G	35589130.89	35589131.15	35589131.41	0.0089	0.0003
Earth	92727-08-19 17:31 G	35589130.97	35589131.23	35589131.48	0.0089	0.0006 *
Earth	92728-08-21 04:05 G	35589498.43	35589498.67	35589498.93	0.0089	0.0024
Moon	92728-08-21 06:58 G	35589498.55	35589498.79	35589499.03	0.0089	0.0026 *
Moon	92729-08-23 11:31 G	35589865.77	35589865.98	35589866.23	0.0089	0.0040
Earth	92729-08-23 14:38 G	35589865.91	35589866.11	35589866.36	0.0089	0.0043 *
Earth	92730-08-26 01:12 G	35590233.39	35590233.55	35590233.76	0.0089	0.0061
Moon	92730-08-26 05:31 G	35590233.56	35590233.73	35590233.91	0.0089	0.0063 *
Moon	92731-08-28 08:53 G	35590600.77	35590600.87	35590601.03	0.0089	0.0077
Earth	92731-08-28 12:14 G	35590600.91	35590601.01	35590601.15	0.0089	0.0079 *
Mercury	92760-11-01 01:12 G	35601258.51	35601258.55	35601258.60	0.0088	0.0083
Mercury	92761-01-28 02:24 G	35601346.54	35601346.60	35601346.67	0.0088	0.0076
Mercury	92761-04-26 03:36 G	35601434.58	35601434.65	35601434.74	0.0088	0.0069
Mercury	92761-07-23 05:02 G	35601522.62	35601522.71	35601522.81	0.0088	0.0062
Mars	92761-08-12 22:48 G	35601543.14	35601543.45	35601543.81	0.0088	0.0027
Mercury	92761-10-19 06:14 G	35601610.67	35601610.76	35601610.87	0.0088	0.0055
Mercury	92762-01-15 07:41 G	35601698.71	35601698.82	35601698.93	0.0088	0.0048
Mercury	92762-04-13 08:53 G	35601786.76	35601786.87	35601786.99	0.0088	0.0041
Mercury	92762-07-10 10:05 G	35601874.81	35601874.92	35601875.05	0.0088	0.0034
Mercury	92762-10-06 11:31 G	35601962.86	35601962.98	35601963.11	0.0088	0.0027
Mercury	92763-01-02 12:43 G	35602050.91	35602051.03	35602051.17	0.0088	0.0020
Mercury	92763-03-31 14:10 G	35602138.96	35602139.09	35602139.22	0.0088	0.0012
Mercury	92763-06-27 15:22 G	35602227.01	35602227.14	35602227.28	0.0088	0.0006
Mercury	92763-09-23 16:48 G	35602315.06	35602315.20	35602315.33	0.0088	0.0002



Mercury	92763-12-20 18:00 G	35602403.12	35602403.25	35602403.39	0.0088	0.0009
Mercury	92764-03-17 19:26 G	35602491.18	35602491.31	35602491.44	0.0088	0.0016
Mercury	92764-06-13 20:38 G	35602579.23	35602579.36	35602579.49	0.0088	0.0023
Mercury	92764-09-09 21:50 G	35602667.29	35602667.41	35602667.54	0.0088	0.0030
Mercury	92764-12-06 23:02 G	35602755.35	35602755.46	35602755.59	0.0088	0.0038
Mercury	92765-03-05 00:29 G	35602843.41	35602843.52	35602843.64	0.0088	0.0045
Mercury	92765-06-01 01:55 G	35602931.47	35602931.58	35602931.69	0.0088	0.0052
Mercury	92765-08-28 03:07 G	35603019.54	35603019.63	35603019.73	0.0088	0.0059
Mercury	92765-11-24 04:34 G	35603107.60	35603107.69	35603107.78	0.0088	0.0066
Mercury	92766-02-20 05:31 G	35603195.68	35603195.73	35603195.82	0.0088	0.0074
Mercury	92766-05-19 06:58 G	35603283.75	35603283.79	35603283.85	0.0088	0.0081
Mercury	92766-08-15 08:38 G	35603371.86	35603371.86	35603371.86	0.0088	0.0087
Venus	92798-06-15 23:46 G	35614999.41	35614999.49	35614999.61	0.0088	0.0079
Venus	92799-01-27 12:43 G	35615224.91	35615225.03	35615225.19	0.0088	0.0068
Venus	92799-09-10 01:55 G	35615450.43	35615450.58	35615450.76	0.0088	0.0058
Venus	92800-04-22 14:53 G	35615675.95	35615676.12	35615676.33	0.0088	0.0048
Venus	92800-12-04 04:19 G	35615901.49	35615901.68	35615901.89	0.0088	0.0037
Venus	92801-07-17 17:17 G	35616127.02	35616127.22	35616127.45	0.0088	0.0027
Venus	92802-02-28 06:43 G	35616352.56	35616352.78	35616353.00	0.0088	0.0015
Venus	92802-10-11 19:41 G	35616578.10	35616578.32	35616578.55	0.0088	0.0005
Venus	92803-05-25 08:53 G	35616803.65	35616803.87	35616804.09	0.0088	0.0006
Venus	92804-01-05 21:50 G	35617029.20	35617029.41	35617029.64	0.0088	0.0017
Venus	92804-08-18 10:48 G	35617254.75	35617254.95	35617255.17	0.0088	0.0027
Venus	92805-04-01 00:00 G	35617480.31	35617480.50	35617480.71	0.0088	0.0038
Venus	92805-11-12 12:58 G	35617705.87	35617706.04	35617706.24	0.0088	0.0048
Moon	92806-02-09 11:31 G	35617794.92	35617794.98	35617795.08	0.0088	0.0084
Earth	92806-02-09 13:12 G	35617795.00	35617795.05	35617795.12	0.0088	0.0086 *
Venus	92806-06-26 01:55 G	35617931.43	35617931.58	35617931.76	0.0088	0.0059
Venus	92807-02-06 14:38 G	35618157.00	35618157.11	35618157.27	0.0088	0.0070
Earth	92807-02-12 01:26 G	35618162.42	35618162.56	35618162.75	0.0088	0.0068

Moon	92807-02-12 02:38 G	35618162.45	35618162.61	35618162.79	0.0088	0.0069 *
Venus	92807-09-20 03:50 G	35618382.58	35618382.66	35618382.77	0.0088	0.0080
Earth	92808-02-14 13:55 G	35618529.89	35618530.08	35618530.32	0.0088	0.0050
Moon	92808-02-14 14:38 G	35618529.92	35618530.11	35618530.34	0.0088	0.0048 *
Moon	92809-02-16 00:29 G	35618897.28	35618897.52	35618897.78	0.0089	0.0033
Earth	92809-02-16 02:38 G	35618897.38	35618897.61	35618897.86	0.0089	0.0031 *
Earth	92810-02-18 15:07 G	35619264.88	35619265.13	35619265.39	0.0089	0.0012
Moon	92810-02-18 17:31 G	35619264.99	35619265.23	35619265.49	0.0089	0.0011 *
Moon	92811-02-21 00:14 G	35619632.25	35619632.51	35619632.77	0.0089	0.0005
Earth	92811-02-21 03:50 G	35619632.40	35619632.66	35619632.92	0.0089	0.0006 *
Earth	92812-02-23 16:05 G	35619999.92	35620000.17	35620000.42	0.0089	0.0025
Moon	92812-02-23 19:26 G	35620000.07	35620000.31	35620000.57	0.0089	0.0027 *
Moon	92813-02-25 00:58 G	35620367.33	35620367.54	35620367.78	0.0089	0.0043
Earth	92813-02-25 04:19 G	35620367.47	35620367.68	35620367.92	0.0089	0.0044 *
Earth	92814-02-27 16:48 G	35620735.03	35620735.20	35620735.40	0.0089	0.0062
Moon	92814-02-27 19:41 G	35620735.15	35620735.32	35620735.53	0.0089	0.0063 *
Moon	92815-03-02 03:36 G	35621102.56	35621102.65	35621102.78	0.0089	0.0080
Earth	92815-03-02 05:02 G	35621102.63	35621102.71	35621102.85	0.0089	0.0081 *
Mars	92843-06-10 04:19 G	35631429.50	35631429.68	35631429.86	0.0090	0.0068
Mercury	92844-07-17 01:41 G	35631832.52	35631832.57	35631832.66	0.0090	0.0083
Mercury	92844-10-13 05:31 G	35631920.63	35631920.73	35631920.86	0.0090	0.0072
Mercury	92845-01-09 09:07 G	35632008.75	35632008.88	35632009.04	0.0090	0.0061
Mercury	92845-04-07 12:58 G	35632096.89	35632097.04	35632097.21	0.0090	0.0050
Mars	92845-05-03 15:50 G	35632122.92	35632123.16	35632123.43	0.0090	0.0041
Mercury	92845-07-04 16:34 G	35632185.03	35632185.19	35632185.37	0.0090	0.0039
Mercury	92845-09-30 20:10 G	35632273.17	35632273.34	35632273.53	0.0090	0.0028
Mercury	92845-12-28 00:00 G	35632361.31	35632361.50	35632361.69	0.0090	0.0017
Mercury	92846-03-26 03:36 G	35632449.46	35632449.65	35632449.85	0.0090	0.0006
Mercury	92846-06-22 07:12 G	35632537.61	35632537.80	35632538.00	0.0090	0.0005
Mercury	92846-09-18 10:48 G	35632625.77	35632625.95	35632626.14	0.0090	0.0016

Mercury	92846-12-15 14:24 G	35632713.92	35632714.10	35632714.29	0.0090	0.0027
Mercury	92847-03-13 17:46 G	35632802.08	35632802.24	35632802.43	0.0090	0.0038
Mercury	92847-06-09 21:22 G	35632890.24	35632890.39	35632890.56	0.0090	0.0049
Mercury	92847-09-06 00:43 G	35632978.41	35632978.53	35632978.69	0.0090	0.0060
Mercury	92847-12-03 04:34 G	35633066.58	35633066.69	35633066.82	0.0090	0.0070
Mercury	92848-02-29 07:55 G	35633154.77	35633154.83	35633154.93	0.0090	0.0081
Venus	92879-05-07 03:07 G	35644544.57	35644544.63	35644544.74	0.0089	0.0083
Venus	92879-12-18 16:19 G	35644770.07	35644770.18	35644770.33	0.0089	0.0072
Venus	92880-07-31 05:02 G	35644995.58	35644995.71	35644995.89	0.0089	0.0062
Venus	92881-03-13 18:14 G	35645221.09	35645221.26	35645221.45	0.0089	0.0050
Venus	92881-10-25 07:26 G	35645446.62	35645446.81	35645447.01	0.0089	0.0039
Venus	92882-06-07 20:10 G	35645672.15	35645672.34	35645672.56	0.0089	0.0029
Venus	92883-01-19 09:22 G	35645897.68	35645897.89	35645898.11	0.0089	0.0018
Venus	92883-09-01 22:19 G	35646123.21	35646123.43	35646123.65	0.0089	0.0007
Venus	92884-04-14 11:17 G	35646348.75	35646348.97	35646349.19	0.0089	0.0004
Venus	92884-11-26 00:14 G	35646574.30	35646574.51	35646574.73	0.0089	0.0014
Venus	92885-07-09 12:58 G	35646799.84	35646800.04	35646800.26	0.0089	0.0025
Venus	92886-02-20 02:10 G	35647025.39	35647025.59	35647025.79	0.0089	0.0035
Moon	92886-08-07 18:29 G	35647194.24	35647194.27	35647194.35	0.0089	0.0087
Venus	92886-10-03 14:53 G	35647250.94	35647251.12	35647251.31	0.0089	0.0046
Venus	92887-05-17 03:36 G	35647476.50	35647476.65	35647476.84	0.0089	0.0057
Moon	92887-08-10 01:26 G	35647561.47	35647561.56	35647561.70	0.0089	0.0078
Earth	92887-08-10 02:53 G	35647561.51	35647561.62	35647561.79	0.0089	0.0074 *
Venus	92887-12-28 17:02 G	35647702.07	35647702.21	35647702.35	0.0089	0.0067
Venus	92888-08-10 05:31 G	35647927.65	35647927.73	35647927.85	0.0089	0.0078
Moon	92888-08-11 14:10 G	35647928.89	35647929.09	35647929.32	0.0089	0.0051
Earth	92888-08-11 13:55 G	35647928.90	35647929.08	35647929.30	0.0089	0.0056 *
Venus	92889-03-23 18:29 G	35648153.27	35648153.27	35648153.31	0.0089	0.0089
Earth	92889-08-14 01:12 G	35648296.32	35648296.55	35648296.78	0.0089	0.0037
Moon	92889-08-14 02:10 G	35648296.39	35648296.59	35648296.82	0.0089	0.0042 *

Moon	92890-08-16 09:50 G	35648663.65	35648663.91	35648664.17	0.0089	0.0015
Earth	92890-08-16 12:00 G	35648663.75	35648664.00	35648664.25	0.0089	0.0019 *
Earth	92891-08-18 22:48 G	35649031.20	35649031.45	35649031.71	0.0089	0.0001
Moon	92891-08-19 01:55 G	35649031.33	35649031.58	35649031.83	0.0089	0.0005 *
Moon	92892-08-20 06:00 G	35649398.52	35649398.75	35649399.01	0.0089	0.0023
Earth	92892-08-20 09:50 G	35649398.66	35649398.91	35649399.16	0.0089	0.0018 *
Earth	92893-08-22 20:10 G	35649766.13	35649766.34	35649766.60	0.0089	0.0037
Moon	92893-08-23 00:14 G	35649766.27	35649766.51	35649766.75	0.0089	0.0032 *
Moon	92894-08-25 04:19 G	35650133.50	35650133.68	35650133.88	0.0089	0.0059
Earth	92894-08-25 07:12 G	35650133.62	35650133.80	35650134.02	0.0089	0.0055 *
Earth	92895-08-27 18:00 G	35650501.12	35650501.25	35650501.42	0.0089	0.0073
Moon	92895-08-27 20:24 G	35650501.19	35650501.35	35650501.52	0.0089	0.0068 *
Mars	92925-03-26 21:50 G	35661304.25	35661304.41	35661304.58	0.0088	0.0077
Mercury	92925-07-30 00:14 G	35661429.48	35661429.51	35661429.57	0.0088	0.0082
Mercury	92925-10-26 01:26 G	35661517.51	35661517.56	35661517.64	0.0088	0.0075
Mercury	92926-01-22 02:53 G	35661605.55	35661605.62	35661605.71	0.0088	0.0068
Mercury	92926-04-20 04:05 G	35661693.59	35661693.67	35661693.78	0.0088	0.0061
Mercury	92926-07-17 05:31 G	35661781.63	35661781.73	35661781.84	0.0088	0.0053
Mercury	92926-10-13 06:43 G	35661869.68	35661869.78	35661869.90	0.0088	0.0047
Mercury	92927-01-09 07:55 G	35661957.72	35661957.83	35661957.96	0.0088	0.0040
Mars	92927-02-21 08:24 G	35662000.59	35662000.85	35662001.17	0.0088	0.0050
Mercury	92927-04-07 09:22 G	35662045.77	35662045.89	35662046.02	0.0088	0.0032
Mercury	92927-07-04 10:34 G	35662133.82	35662133.94	35662134.08	0.0088	0.0026
Mercury	92927-09-30 12:00 G	35662221.87	35662222.00	35662222.13	0.0088	0.0018
Mercury	92927-12-27 13:12 G	35662309.92	35662310.05	35662310.19	0.0088	0.0012
Mercury	92928-03-24 14:38 G	35662397.98	35662398.11	35662398.24	0.0088	0.0004
Mercury	92928-06-20 15:50 G	35662486.03	35662486.16	35662486.30	0.0088	0.0004
Mercury	92928-09-16 17:17 G	35662574.08	35662574.22	35662574.35	0.0088	0.0010
Mercury	92928-12-13 18:29 G	35662662.14	35662662.27	35662662.40	0.0088	0.0017
Mercury	92929-03-11 19:41 G	35662750.20	35662750.32	35662750.46	0.0088	0.0025

Mercury	92929-06-07 21:07 G	35662838.26	35662838.38	35662838.51	0.0088	0.0032
Mercury	92929-09-03 22:19 G	35662926.32	35662926.43	35662926.56	0.0088	0.0039
Mercury	92929-11-30 23:46 G	35663014.38	35663014.49	35663014.60	0.0088	0.0046
Mercury	92930-02-27 01:12 G	35663102.44	35663102.55	35663102.65	0.0088	0.0053
Mercury	92930-05-26 02:10 G	35663190.51	35663190.59	35663190.70	0.0088	0.0061
Mercury	92930-08-22 03:36 G	35663278.57	35663278.65	35663278.74	0.0088	0.0067
Mercury	92930-11-18 04:48 G	35663366.64	35663366.70	35663366.78	0.0088	0.0075
Mercury	92931-02-14 06:14 G	35663454.72	35663454.76	35663454.81	0.0088	0.0082
Venus	92962-09-18 08:24 G	35674993.79	35674993.85	35674993.94	0.0088	0.0082
Venus	92963-05-01 21:22 G	35675219.28	35675219.39	35675219.54	0.0088	0.0072
Venus	92963-12-13 10:48 G	35675444.80	35675444.95	35675445.12	0.0088	0.0061
Venus	92964-07-25 23:31 G	35675670.32	35675670.48	35675670.68	0.0088	0.0052
Venus	92965-03-08 12:58 G	35675895.85	35675896.04	35675896.24	0.0088	0.0040
Venus	92965-10-20 01:55 G	35676121.38	35676121.58	35676121.80	0.0088	0.0030
Venus	92966-06-02 15:07 G	35676346.92	35676347.13	35676347.35	0.0088	0.0019
Venus	92967-01-14 04:19 G	35676572.46	35676572.68	35676572.90	0.0088	0.0009
Venus	92967-08-27 17:17 G	35676798.00	35676798.22	35676798.45	0.0088	0.0003
Venus	92968-04-09 06:29 G	35677023.55	35677023.77	35677023.99	0.0088	0.0012
Venus	92968-11-20 19:26 G	35677249.11	35677249.31	35677249.53	0.0088	0.0023
Venus	92969-07-04 08:38 G	35677474.66	35677474.86	35677475.07	0.0088	0.0034
Venus	92970-02-14 21:22 G	35677700.22	35677700.39	35677700.60	0.0088	0.0044
Venus	92970-09-28 10:34 G	35677925.78	35677925.94	35677926.12	0.0088	0.0055
Earth	92971-02-12 06:14 G	35678062.64	35678062.76	35678062.93	0.0088	0.0074
Moon	92971-02-12 07:55 G	35678062.69	35678062.83	35678062.99	0.0088	0.0070 *
Venus	92971-05-11 23:17 G	35678151.34	35678151.47	35678151.64	0.0088	0.0066
Venus	92971-12-23 12:29 G	35678376.93	35678377.02	35678377.15	0.0088	0.0076
Moon	92972-02-14 16:34 G	35678430.01	35678430.19	35678430.40	0.0088	0.0059
Earth	92972-02-14 18:58 G	35678430.10	35678430.29	35678430.51	0.0088	0.0055 *
Venus	92972-08-05 01:41 G	35678602.53	35678602.57	35678602.63	0.0088	0.0086
Earth	92973-02-16 07:26 G	35678797.58	35678797.81	35678798.06	0.0088	0.0037

Moon	92973-02-16 10:48 G	35678797.72	35678797.95	35678798.20	0.0088	0.0033	*
Moon	92974-02-18 16:48 G	35679164.94	35679165.20	35679165.45	0.0089	0.0022	
Earth	92974-02-18 20:10 G	35679165.09	35679165.34	35679165.60	0.0089	0.0018	*
Earth	92975-02-21 08:24 G	35679532.60	35679532.85	35679533.12	0.0089	0.0002	
Moon	92975-02-21 12:14 G	35679532.75	35679533.01	35679533.27	0.0089	0.0005	*
Moon	92976-02-23 18:00 G	35679900.00	35679900.25	35679900.51	0.0089	0.0015	
Earth	92976-02-23 20:38 G	35679900.12	35679900.36	35679900.63	0.0089	0.0020	*
Earth	92977-02-25 08:53 G	35680267.65	35680267.87	35680268.12	0.0089	0.0038	
Moon	92977-02-25 11:17 G	35680267.75	35680267.97	35680268.22	0.0089	0.0042	*
Moon	92978-02-27 19:55 G	35680635.15	35680635.33	35680635.55	0.0089	0.0052	
Earth	92978-02-27 21:22 G	35680635.21	35680635.39	35680635.61	0.0089	0.0056	*
Moon	92979-03-02 09:50 G	35681002.79	35681002.91	35681003.04	0.0089	0.0078	
Earth	92979-03-02 10:05 G	35681002.79	35681002.92	35681003.07	0.0089	0.0074	*
Moon	92980-03-03 23:17 G	35681370.47	35681370.47	35681370.49	0.0089	0.0089	
Jupiter	92982-04-15 04:19 G	35682142.24	35682142.68	35682143.21	0.0089	0.0045	

# 94TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 94th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	93008-12-19 02:10 G	35691886.31	35691886.59	35691886.87	0.0090	0.0005		
Mercury	93009-04-14 22:34 G	35692003.38	35692003.44	35692003.54	0.0090	0.0082		
Mercury	93009-07-12 02:24 G	35692091.50	35692091.60	35692091.73	0.0090	0.0071		

Mercury	93009-10-08 06:00 G	35692179.62	35692179.75	35692179.91	0.0090	0.0060
Mercury	93010-01-04 09:50 G	35692267.76	35692267.91	35692268.08	0.0090	0.0049
Mercury	93010-04-02 13:26 G	35692355.90	35692356.06	35692356.25	0.0090	0.0038
Mercury	93010-06-29 17:17 G	35692444.04	35692444.22	35692444.41	0.0090	0.0027
Mercury	93010-09-25 20:53 G	35692532.19	35692532.37	35692532.57	0.0090	0.0016
Mercury	93010-12-23 00:43 G	35692620.34	35692620.53	35692620.72	0.0090	0.0005
Mercury	93011-03-21 04:19 G	35692708.49	35692708.68	35692708.87	0.0090	0.0006
Mercury	93011-06-17 07:41 G	35692796.64	35692796.82	35692797.02	0.0090	0.0018
Mercury	93011-09-13 11:31 G	35692884.80	35692884.98	35692885.16	0.0090	0.0028
Mercury	93011-12-10 14:53 G	35692972.96	35692973.12	35692973.30	0.0090	0.0039
Mercury	93012-03-07 18:29 G	35693061.12	35693061.27	35693061.44	0.0090	0.0050
Mercury	93012-06-03 21:50 G	35693149.29	35693149.41	35693149.57	0.0090	0.0061
Mercury	93012-08-31 01:26 G	35693237.46	35693237.56	35693237.69	0.0090	0.0072
Mercury	93012-11-27 05:02 G	35693325.65	35693325.71	35693325.80	0.0090	0.0082
Venus	93043-08-10 11:31 G	35704538.94	35704538.98	35704539.04	0.0089	0.0087
Venus	93044-03-23 00:00 G	35704764.41	35704764.50	35704764.64	0.0089	0.0077
Venus	93044-11-03 13:12 G	35704989.92	35704990.05	35704990.21	0.0089	0.0066
Venus	93045-06-17 01:55 G	35705215.43	35705215.58	35705215.78	0.0089	0.0056
Venus	93046-01-28 15:07 G	35705440.95	35705441.13	35705441.33	0.0089	0.0044
Venus	93046-09-11 04:05 G	35705666.48	35705666.67	35705666.88	0.0089	0.0034
Venus	93047-04-24 17:02 G	35705892.01	35705892.21	35705892.44	0.0089	0.0023
Venus	93047-12-06 06:14 G	35706117.55	35706117.76	35706117.98	0.0089	0.0012
Venus	93048-07-18 19:12 G	35706343.08	35706343.30	35706343.52	0.0089	0.0002
Venus	93049-03-01 07:55 G	35706568.62	35706568.83	35706569.06	0.0089	0.0010
Venus	93049-10-12 21:07 G	35706794.17	35706794.38	35706794.59	0.0089	0.0020
Venus	93050-05-26 09:50 G	35707019.72	35707019.91	35707020.13	0.0089	0.0031
Venus	93051-01-06 22:34 G	35707245.27	35707245.44	35707245.65	0.0089	0.0042
Moon	93051-08-11 08:10 G	35707461.74	35707461.84	35707461.98	0.0089	0.0079
Earth	93051-08-11 08:24 G	35707461.77	35707461.85	35707461.99	0.0089	0.0080 *
Venus	93051-08-20 11:46 G	35707470.82	35707470.99	35707471.17	0.0089	0.0052

Venus	93052-04-02 00:29 G	35707696.38	35707696.52	35707696.69	0.0089	0.0063
Earth	93052-08-12 19:12 G	35707829.14	35707829.30	35707829.51	0.0089	0.0062
Moon	93052-08-12 21:22 G	35707829.21	35707829.39	35707829.56	0.0089	0.0062 *
Venus	93052-11-13 13:12 G	35707921.95	35707922.05	35707922.20	0.0089	0.0074
Venus	93053-06-27 02:24 G	35708147.55	35708147.60	35708147.69	0.0089	0.0084
Moon	93053-08-15 03:07 G	35708196.42	35708196.63	35708196.88	0.0089	0.0044
Earth	93053-08-15 06:29 G	35708196.55	35708196.77	35708197.00	0.0089	0.0043 *
Earth	93054-08-17 17:17 G	35708563.98	35708564.22	35708564.47	0.0089	0.0025
Moon	93054-08-17 20:10 G	35708564.11	35708564.34	35708564.60	0.0089	0.0026 *
Moon	93055-08-20 00:29 G	35708931.27	35708931.52	35708931.78	0.0089	0.0006
Earth	93055-08-20 04:05 G	35708931.42	35708931.67	35708931.93	0.0089	0.0007 *
Earth	93056-08-21 14:53 G	35709298.87	35709299.12	35709299.38	0.0089	0.0012
Moon	93056-08-21 18:14 G	35709299.00	35709299.26	35709299.52	0.0089	0.0011 *
Moon	93057-08-23 23:17 G	35709666.24	35709666.47	35709666.71	0.0089	0.0031
Earth	93057-08-24 01:41 G	35709666.34	35709666.57	35709666.82	0.0089	0.0030 *
Earth	93058-08-26 12:43 G	35710033.82	35710034.03	35710034.25	0.0089	0.0048
Moon	93058-08-26 14:24 G	35710033.89	35710034.10	35710034.34	0.0089	0.0047 *
Moon	93059-08-28 23:02 G	35710401.32	35710401.46	35710401.64	0.0089	0.0068
Earth	93059-08-28 23:17 G	35710401.32	35710401.47	35710401.66	0.0089	0.0067 *
Moon	93060-08-30 09:22 G	35710768.83	35710768.89	35710769.01	0.0089	0.0084
Earth	93060-08-30 10:05 G	35710768.88	35710768.92	35710769.03	0.0089	0.0085 *
Saturn	93064-04-27 10:05 G	35712104.74	35712104.92	35712105.26	0.0088	0.0082
Mercury	93090-01-28 22:19 G	35721512.42	35721512.43	35721512.45	0.0088	0.0087
Mercury	93090-04-26 23:31 G	35721600.44	35721600.48	35721600.54	0.0088	0.0080
Mercury	93090-07-24 00:58 G	35721688.47	35721688.54	35721688.61	0.0088	0.0073
Mars	93090-10-05 07:26 G	35721761.46	35721761.81	35721762.16	0.0088	0.0002
Mercury	93090-10-20 02:10 G	35721776.51	35721776.59	35721776.68	0.0088	0.0066
Mercury	93091-01-16 03:22 G	35721864.55	35721864.64	35721864.75	0.0088	0.0059
Mercury	93091-04-14 04:48 G	35721952.59	35721952.70	35721952.81	0.0088	0.0052
Mercury	93091-07-11 06:00 G	35722040.64	35722040.75	35722040.87	0.0088	0.0045



Mercury	93091-10-07 07:26 G	35722128.69	35722128.81	35722128.93	0.0088	0.0038
Mercury	93092-01-03 08:38 G	35722216.74	35722216.86	35722216.99	0.0088	0.0031
Mercury	93092-03-31 09:50 G	35722304.79	35722304.91	35722305.04	0.0088	0.0024
Mercury	93092-06-27 11:17 G	35722392.84	35722392.97	35722393.10	0.0088	0.0017
Mercury	93092-09-23 12:29 G	35722480.89	35722481.02	35722481.15	0.0088	0.0010
Mercury	93092-12-20 13:41 G	35722568.94	35722569.07	35722569.21	0.0088	0.0004
Mercury	93093-03-18 15:07 G	35722656.99	35722657.13	35722657.26	0.0088	0.0005
Mercury	93093-06-14 16:19 G	35722745.05	35722745.18	35722745.32	0.0088	0.0012
Mercury	93093-09-10 17:31 G	35722833.11	35722833.23	35722833.37	0.0088	0.0019
Mercury	93093-12-07 18:58 G	35722921.16	35722921.29	35722921.42	0.0088	0.0026
Mercury	93094-03-05 20:10 G	35723009.22	35723009.34	35723009.47	0.0088	0.0033
Mercury	93094-06-01 21:36 G	35723097.28	35723097.40	35723097.52	0.0088	0.0040
Mercury	93094-08-28 22:34 G	35723185.34	35723185.44	35723185.57	0.0088	0.0048
Mercury	93094-11-25 00:00 G	35723273.41	35723273.50	35723273.62	0.0088	0.0055
Mercury	93095-02-21 01:12 G	35723361.47	35723361.55	35723361.66	0.0088	0.0062
Mercury	93095-05-20 02:38 G	35723449.54	35723449.61	35723449.70	0.0088	0.0069
Mercury	93095-08-16 04:05 G	35723537.61	35723537.67	35723537.74	0.0088	0.0076
Mercury	93095-11-12 05:31 G	35723625.69	35723625.73	35723625.77	0.0088	0.0083
Venus	93126-12-22 17:02 G	35734988.18	35734988.21	35734988.27	0.0088	0.0086
Venus	93127-08-05 06:00 G	35735213.66	35735213.75	35735213.88	0.0088	0.0076
Venus	93128-03-17 19:12 G	35735439.17	35735439.30	35735439.46	0.0088	0.0066
Venus	93128-10-29 08:10 G	35735664.69	35735664.84	35735665.04	0.0088	0.0056
Venus	93129-06-11 21:36 G	35735890.22	35735890.40	35735890.60	0.0088	0.0044
Venus	93130-01-23 10:34 G	35736115.75	35736115.94	35736116.16	0.0088	0.0034
Venus	93130-09-05 23:46 G	35736341.28	35736341.49	35736341.71	0.0088	0.0023
Venus	93131-04-19 12:43 G	35736566.82	35736567.03	35736567.26	0.0088	0.0013
Venus	93131-12-01 02:10 G	35736792.37	35736792.59	35736792.81	0.0088	0.0002
Venus	93132-07-13 15:07 G	35737017.91	35737018.13	35737018.35	0.0088	0.0008
Venus	93133-02-24 03:50 G	35737243.46	35737243.66	35737243.89	0.0088	0.0020
Venus	93133-10-07 17:02 G	35737469.01	35737469.21	35737469.43	0.0088	0.0030

Venus	93134-05-21 06:00 G	35737694.56	35737694.75	35737694.96	0.0088	0.0040
Venus	93135-01-01 19:12 G	35737920.13	35737920.30	35737920.49	0.0088	0.0051
Moon	93135-02-13 08:10 G	35737962.73	35737962.84	35737963.01	0.0088	0.0075
Earth	93135-02-13 11:31 G	35737962.88	35737962.98	35737963.11	0.0088	0.0079 *
Venus	93135-08-15 07:55 G	35738145.70	35738145.83	35738146.01	0.0088	0.0062
Earth	93136-02-15 23:46 G	35738330.32	35738330.49	35738330.70	0.0088	0.0061
Moon	93136-02-16 03:07 G	35738330.48	35738330.63	35738330.83	0.0088	0.0064 *
Venus	93136-03-27 21:07 G	35738371.27	35738371.38	35738371.53	0.0088	0.0072
Venus	93136-11-08 10:05 G	35738596.86	35738596.92	35738597.02	0.0088	0.0082
Moon	93137-02-17 08:53 G	35738697.65	35738697.87	35738698.12	0.0088	0.0038
Earth	93137-02-17 12:29 G	35738697.81	35738698.02	35738698.27	0.0088	0.0042 *
Earth	93138-02-20 01:12 G	35739065.31	35739065.55	35739065.81	0.0088	0.0024
Moon	93138-02-20 04:19 G	35739065.44	35739065.68	35739065.95	0.0088	0.0027 *
Moon	93139-02-22 11:02 G	35739432.71	35739432.96	35739433.22	0.0088	0.0003
Earth	93139-02-22 13:55 G	35739432.82	35739433.08	35739433.34	0.0088	0.0005 *
Earth	93140-02-25 02:10 G	35739800.34	35739800.59	35739800.85	0.0089	0.0014
Moon	93140-02-25 03:36 G	35739800.39	35739800.65	35739800.93	0.0089	0.0011 *
Moon	93141-02-26 13:55 G	35740167.86	35740168.08	35740168.33	0.0089	0.0035
Earth	93141-02-26 14:38 G	35740167.87	35740168.11	35740168.36	0.0089	0.0032 *
Moon	93142-03-01 02:38 G	35740535.39	35740535.61	35740535.84	0.0089	0.0048
Earth	93142-03-01 02:38 G	35740535.42	35740535.61	35740535.85	0.0089	0.0051 *
Earth	93143-03-03 14:53 G	35740902.98	35740903.12	35740903.31	0.0089	0.0069
Moon	93143-03-03 17:02 G	35740903.09	35740903.21	35740903.38	0.0089	0.0072 *
Moon	93144-03-05 00:14 G	35741270.47	35741270.51	35741270.63	0.0089	0.0085
Earth	93144-03-05 03:36 G	35741270.62	35741270.65	35741270.71	0.0089	0.0087 *
Mars	93172-08-04 10:48 G	35751649.73	35751649.95	35751650.20	0.0090	0.0050
Mercury	93174-01-10 20:10 G	35752174.25	35752174.34	35752174.42	0.0090	0.0080
Mercury	93174-04-08 23:46 G	35752262.37	35752262.49	35752262.61	0.0090	0.0069
Mars	93174-06-28 23:17 G	35752343.29	35752343.47	35752343.72	0.0090	0.0059
Mercury	93174-07-06 03:22 G	35752350.50	35752350.64	35752350.79	0.0090	0.0058

Mercury	93174-10-02 06:58 G	35752438.63	35752438.79	35752438.96	0.0090	0.0047
Mercury	93174-12-29 10:48 G	35752526.78	35752526.95	35752527.13	0.0090	0.0036
Mercury	93175-03-27 14:24 G	35752614.92	35752615.10	35752615.29	0.0090	0.0025
Mercury	93175-06-23 18:14 G	35752703.07	35752703.26	35752703.45	0.0090	0.0014
Mercury	93175-09-19 21:50 G	35752791.22	35752791.41	35752791.60	0.0090	0.0003
Mercury	93175-12-17 01:26 G	35752879.37	35752879.56	35752879.75	0.0090	0.0008
Mercury	93176-03-14 05:02 G	35752967.52	35752967.71	35752967.90	0.0090	0.0019
Mercury	93176-06-10 08:38 G	35753055.68	35753055.86	35753056.04	0.0090	0.0030
Mercury	93176-09-06 12:00 G	35753143.84	35753144.00	35753144.18	0.0090	0.0041
Mercury	93176-12-03 15:36 G	35753232.01	35753232.15	35753232.32	0.0090	0.0052
Mercury	93177-03-01 18:58 G	35753320.18	35753320.29	35753320.45	0.0090	0.0063
Mercury	93177-05-28 22:48 G	35753408.35	35753408.45	35753408.57	0.0090	0.0073
Mercury	93177-08-25 02:10 G	35753496.54	35753496.59	35753496.67	0.0090	0.0084
Venus	93208-06-25 08:24 G	35764758.78	35764758.85	35764758.96	0.0089	0.0081
Venus	93209-02-05 21:07 G	35764984.27	35764984.38	35764984.54	0.0089	0.0070
Venus	93209-09-19 10:19 G	35765209.78	35765209.93	35765210.10	0.0089	0.0059
Venus	93210-05-02 23:31 G	35765435.30	35765435.48	35765435.67	0.0089	0.0048
Venus	93210-12-14 12:14 G	35765660.83	35765661.01	35765661.22	0.0089	0.0038
Venus	93211-07-28 01:12 G	35765886.35	35765886.55	35765886.77	0.0089	0.0027
Venus	93212-03-09 14:24 G	35766111.88	35766112.10	35766112.31	0.0089	0.0016
Venus	93212-10-21 03:22 G	35766337.42	35766337.64	35766337.86	0.0089	0.0006
Venus	93213-06-03 16:34 G	35766562.97	35766563.19	35766563.40	0.0089	0.0005
Venus	93214-01-15 05:17 G	35766788.51	35766788.72	35766788.94	0.0089	0.0016
Venus	93214-08-28 18:00 G	35767014.06	35767014.25	35767014.47	0.0089	0.0027
Venus	93215-04-11 07:12 G	35767239.61	35767239.80	35767240.00	0.0089	0.0037
Earth	93215-08-11 15:07 G	35767362.07	35767362.13	35767362.20	0.0089	0.0085
Moon	93215-08-11 17:02 G	35767362.13	35767362.21	35767362.33	0.0089	0.0081 *
Venus	93215-11-22 19:55 G	35767465.16	35767465.33	35767465.53	0.0089	0.0048
Venus	93216-07-05 08:53 G	35767690.72	35767690.87	35767691.05	0.0089	0.0059
Moon	93216-08-12 22:34 G	35767729.31	35767729.44	35767729.62	0.0089	0.0072

Earth	93216-08-13 01:41 G	35767729.42	35767729.57	35767729.75	0.0089	0.0067	*
Venus	93217-02-15 22:05 G	35767916.29	35767916.42	35767916.56	0.0089	0.0069	
Earth	93217-08-15 12:29 G	35768096.82	35768097.02	35768097.25	0.0089	0.0049	
Moon	93217-08-15 16:05 G	35768096.97	35768097.17	35768097.41	0.0089	0.0044	*
Venus	93217-09-29 10:34 G	35768141.87	35768141.94	35768142.06	0.0089	0.0080	
Moon	93218-08-17 19:55 G	35768464.12	35768464.33	35768464.58	0.0089	0.0036	
Earth	93218-08-17 23:17 G	35768464.25	35768464.47	35768464.72	0.0089	0.0031	*
Earth	93219-08-20 10:05 G	35768831.68	35768831.92	35768832.18	0.0089	0.0013	
Moon	93219-08-20 13:41 G	35768831.81	35768832.07	35768832.33	0.0089	0.0008	*
Moon	93220-08-21 19:12 G	35769199.05	35769199.30	35769199.55	0.0089	0.0001	
Earth	93220-08-21 21:07 G	35769199.13	35769199.38	35769199.64	0.0089	0.0006	*
Earth	93221-08-24 07:41 G	35769566.58	35769566.82	35769567.08	0.0089	0.0024	
Moon	93221-08-24 08:53 G	35769566.62	35769566.87	35769567.12	0.0089	0.0028	*
Moon	93222-08-26 18:29 G	35769934.05	35769934.27	35769934.50	0.0089	0.0038	
Earth	93222-08-26 18:14 G	35769934.06	35769934.26	35769934.51	0.0089	0.0043	*
Moon	93223-08-29 03:50 G	35770301.49	35770301.66	35770301.85	0.0089	0.0065	
Earth	93223-08-29 05:02 G	35770301.55	35770301.71	35770301.93	0.0089	0.0061	*
Earth	93224-08-30 16:05 G	35770669.07	35770669.17	35770669.31	0.0089	0.0079	
Moon	93224-08-30 18:14 G	35770669.16	35770669.26	35770669.43	0.0089	0.0075	*
Mars	93254-05-19 06:58 G	35781522.52	35781522.79	35781523.09	0.0088	0.0051	
Mercury	93254-10-26 21:36 G	35781683.38	35781683.40	35781683.44	0.0088	0.0085	
Mercury	93255-01-22 23:02 G	35781771.40	35781771.46	35781771.52	0.0088	0.0078	
Mercury	93255-04-21 00:14 G	35781859.44	35781859.51	35781859.59	0.0088	0.0071	
Mercury	93255-07-18 01:12 G	35781947.48	35781947.55	35781947.65	0.0088	0.0065	
Mercury	93255-10-14 02:53 G	35782035.52	35782035.62	35782035.72	0.0088	0.0057	
Mercury	93256-01-10 03:50 G	35782123.56	35782123.66	35782123.78	0.0088	0.0051	
Mercury	93256-04-07 05:02 G	35782211.61	35782211.71	35782211.84	0.0088	0.0044	
Mars	93256-04-14 17:31 G	35782219.09	35782219.23	35782219.45	0.0088	0.0075	
Mercury	93256-07-04 06:29 G	35782299.66	35782299.77	35782299.90	0.0088	0.0036	
Mercury	93256-09-30 07:55 G	35782387.71	35782387.83	35782387.96	0.0088	0.0029	

Mercury	93256-12-27 09:07 G	35782475.76	35782475.88	35782476.01	0.0088	0.0022
Mercury	93257-03-25 10:19 G	35782563.81	35782563.93	35782564.07	0.0088	0.0016
Mercury	93257-06-21 11:46 G	35782651.86	35782651.99	35782652.12	0.0088	0.0008
Mercury	93257-09-17 12:58 G	35782739.91	35782740.04	35782740.18	0.0088	0.0003
Mercury	93257-12-14 14:24 G	35782827.97	35782828.10	35782828.23	0.0088	0.0006
Mercury	93258-03-12 15:36 G	35782916.02	35782916.15	35782916.28	0.0088	0.0013
Mercury	93258-06-08 16:48 G	35783004.08	35783004.20	35783004.34	0.0088	0.0021
Mercury	93258-09-04 18:00 G	35783092.13	35783092.25	35783092.39	0.0088	0.0028
Mercury	93258-12-01 19:26 G	35783180.19	35783180.31	35783180.44	0.0088	0.0035
Mercury	93259-02-27 20:38 G	35783268.25	35783268.36	35783268.49	0.0088	0.0042
Mercury	93259-05-26 22:05 G	35783356.31	35783356.42	35783356.54	0.0088	0.0049
Mercury	93259-08-22 23:17 G	35783444.38	35783444.47	35783444.58	0.0088	0.0056
Mercury	93259-11-19 00:43 G	35783532.44	35783532.53	35783532.63	0.0088	0.0063
Mercury	93260-02-15 02:10 G	35783620.51	35783620.59	35783620.67	0.0088	0.0070
Mercury	93260-05-13 03:07 G	35783708.58	35783708.63	35783708.71	0.0088	0.0078
Mercury	93260-08-09 04:34 G	35783796.67	35783796.69	35783796.73	0.0088	0.0085
Venus	93291-11-06 15:22 G	35795208.06	35795208.14	35795208.25	0.0088	0.0079
Venus	93292-06-19 04:19 G	35795433.56	35795433.68	35795433.84	0.0088	0.0069
Venus	93293-01-30 17:46 G	35795659.08	35795659.24	35795659.41	0.0088	0.0058
Venus	93293-09-13 06:29 G	35795884.60	35795884.77	35795884.97	0.0088	0.0048
Venus	93294-04-26 19:55 G	35796110.13	35796110.33	35796110.53	0.0088	0.0038
Venus	93294-12-08 08:53 G	35796335.67	35796335.87	35796336.09	0.0088	0.0027
Venus	93295-07-21 22:05 G	35796561.21	35796561.42	35796561.64	0.0088	0.0017
Venus	93296-03-03 11:02 G	35796786.74	35796786.96	35796787.19	0.0088	0.0006
Venus	93296-10-15 00:14 G	35797012.29	35797012.51	35797012.73	0.0088	0.0005
Venus	93297-05-28 13:12 G	35797237.83	35797238.05	35797238.27	0.0088	0.0015
Venus	93298-01-09 01:55 G	35797463.39	35797463.58	35797463.81	0.0088	0.0027
Venus	93298-08-22 15:07 G	35797688.94	35797689.13	35797689.34	0.0088	0.0036
Earth	93299-02-12 16:34 G	35797863.15	35797863.19	35797863.30	0.0088	0.0085
Moon	93299-02-12 20:24 G	35797863.32	35797863.35	35797863.43	0.0088	0.0086

Venus	93299-04-05 03:50 G	35797914.49	35797914.66	35797914.87	0.0088	0.0048
Venus	93299-11-16 17:17 G	35798140.06	35798140.22	35798140.40	0.0088	0.0057
Moon	93300-02-15 01:55 G	35798230.42	35798230.58	35798230.78	0.0088	0.0063
Earth	93300-02-15 05:46 G	35798230.57	35798230.74	35798230.92	0.0088	0.0066 *
Venus	93300-06-30 06:29 G	35798365.63	35798365.77	35798365.91	0.0088	0.0068
Venus	93301-02-10 18:58 G	35798591.21	35798591.29	35798591.42	0.0088	0.0079
Earth	93301-02-17 18:00 G	35798598.05	35798598.25	35798598.49	0.0088	0.0048
Moon	93301-02-17 21:07 G	35798598.18	35798598.38	35798598.61	0.0088	0.0051 *
Moon	93302-02-20 04:48 G	35798965.47	35798965.70	35798965.96	0.0088	0.0027
Earth	93302-02-20 06:43 G	35798965.55	35798965.78	35798966.04	0.0088	0.0029 *
Earth	93303-02-22 19:12 G	35799333.05	35799333.30	35799333.57	0.0088	0.0011
Moon	93303-02-22 20:24 G	35799333.10	35799333.35	35799333.63	0.0088	0.0015 *
Earth	93304-02-25 07:55 G	35799700.57	35799700.83	35799701.09	0.0088	0.0008
Moon	93304-02-25 07:55 G	35799700.59	35799700.83	35799701.09	0.0088	0.0012 *
Moon	93305-02-26 18:43 G	35800068.03	35800068.28	35800068.54	0.0089	0.0024
Earth	93305-02-26 20:10 G	35800068.11	35800068.34	35800068.60	0.0089	0.0027 *
Earth	93306-03-01 08:38 G	35800435.64	35800435.86	35800436.09	0.0089	0.0045
Moon	93306-03-01 10:34 G	35800435.75	35800435.94	35800436.17	0.0089	0.0049 *
Moon	93307-03-03 17:17 G	35800803.05	35800803.22	35800803.44	0.0089	0.0060
Earth	93307-03-03 20:38 G	35800803.21	35800803.36	35800803.57	0.0089	0.0064 *
Earth	93308-03-05 08:53 G	35801170.80	35801170.87	35801171.00	0.0089	0.0082
Moon	93308-03-05 12:43 G	35801170.97	35801171.03	35801171.11	0.0089	0.0085 *
Mars	93338-02-12 11:02 G	35812106.69	35812106.96	35812107.25	0.0090	0.0015
Mercury	93338-07-12 13:12 G	35812257.05	35812257.05	35812257.09	0.0090	0.0090
Mercury	93338-10-08 17:17 G	35812345.13	35812345.22	35812345.32	0.0090	0.0078
Mercury	93339-01-04 21:07 G	35812433.25	35812433.38	35812433.51	0.0090	0.0067
Mercury	93339-04-03 00:43 G	35812521.38	35812521.53	35812521.68	0.0090	0.0056
Mercury	93339-06-30 04:19 G	35812609.52	35812609.68	35812609.85	0.0090	0.0045
Mercury	93339-09-26 08:10 G	35812697.66	35812697.84	35812698.02	0.0090	0.0034
Mercury	93339-12-23 11:46 G	35812785.80	35812785.99	35812786.18	0.0090	0.0023

Mercury	93340-03-20 15:22 G	35812873.95	35812874.14	35812874.34	0.0090	0.0012
Mercury	93340-06-16 18:58 G	35812962.10	35812962.29	35812962.49	0.0090	0.0003
Mercury	93340-09-12 22:48 G	35813050.26	35813050.45	35813050.64	0.0090	0.0010
Mercury	93340-12-10 02:10 G	35813138.41	35813138.59	35813138.79	0.0090	0.0021
Mercury	93341-03-08 05:46 G	35813226.57	35813226.74	35813226.93	0.0090	0.0032
Mercury	93341-06-04 09:22 G	35813314.73	35813314.89	35813315.07	0.0090	0.0043
Mercury	93341-08-31 12:43 G	35813402.90	35813403.03	35813403.20	0.0090	0.0054
Mercury	93341-11-27 16:19 G	35813491.07	35813491.18	35813491.33	0.0090	0.0065
Mercury	93342-02-23 20:10 G	35813579.25	35813579.34	35813579.45	0.0090	0.0075
Mercury	93342-05-22 23:31 G	35813667.45	35813667.48	35813667.55	0.0090	0.0086
Venus	93372-09-27 17:17 G	35824753.16	35824753.22	35824753.30	0.0089	0.0085
Venus	93373-05-11 06:00 G	35824978.65	35824978.75	35824978.89	0.0089	0.0074
Venus	93373-12-22 18:58 G	35825204.15	35825204.29	35825204.46	0.0089	0.0064
Venus	93374-08-05 07:41 G	35825429.66	35825429.82	35825430.01	0.0089	0.0053
Venus	93375-03-18 20:38 G	35825655.18	35825655.36	35825655.56	0.0089	0.0042
Venus	93375-10-30 09:36 G	35825880.71	35825880.90	35825881.11	0.0089	0.0032
Venus	93376-06-11 22:34 G	35826106.24	35826106.44	35826106.66	0.0089	0.0021
Venus	93377-01-23 11:46 G	35826331.77	35826331.99	35826332.21	0.0089	0.0010
Venus	93377-09-06 00:43 G	35826557.31	35826557.53	35826557.75	0.0089	0.0001
Venus	93378-04-19 13:26 G	35826782.85	35826783.06	35826783.29	0.0089	0.0012
Venus	93378-12-01 02:38 G	35827008.40	35827008.61	35827008.82	0.0089	0.0022
Venus	93379-07-14 15:22 G	35827233.95	35827234.14	35827234.36	0.0089	0.0033
Moon	93379-08-11 18:00 G	35827262.25	35827262.25	35827262.25	0.0089	0.0089
Venus	93380-02-25 04:19 G	35827459.50	35827459.68	35827459.88	0.0089	0.0044
Earth	93380-08-13 07:55 G	35827629.70	35827629.83	35827629.99	0.0089	0.0073
Moon	93380-08-13 11:02 G	35827629.85	35827629.96	35827630.13	0.0089	0.0074 *
Venus	93380-10-07 17:31 G	35827685.06	35827685.23	35827685.40	0.0089	0.0054
Venus	93381-05-21 06:14 G	35827910.63	35827910.76	35827910.92	0.0089	0.0065
Moon	93381-08-15 15:07 G	35827996.96	35827997.13	35827997.36	0.0089	0.0054
Earth	93381-08-15 18:43 G	35827997.10	35827997.28	35827997.50	0.0089	0.0055 *

Venus	93382-01-01 19:12 G	35828136.20	35828136.30	35828136.43	0.0089	0.0076
Venus	93382-08-15 08:24 G	35828361.81	35828361.85	35828361.91	0.0089	0.0086
Earth	93382-08-18 05:31 G	35828364.52	35828364.73	35828364.98	0.0089	0.0037
Moon	93382-08-18 07:55 G	35828364.62	35828364.83	35828365.09	0.0089	0.0038 *
Moon	93383-08-20 14:53 G	35828731.88	35828732.12	35828732.37	0.0089	0.0018
Earth	93383-08-20 16:48 G	35828731.95	35828732.20	35828732.45	0.0089	0.0018 *
Earth	93384-08-22 03:36 G	35829099.39	35829099.65	35829099.91	0.0089	0.0000
Moon	93384-08-22 04:05 G	35829099.41	35829099.67	35829099.94	0.0089	0.0001 *
Earth	93385-08-24 14:24 G	35829466.85	35829467.10	35829467.35	0.0089	0.0018
Moon	93385-08-24 15:07 G	35829466.90	35829467.13	35829467.38	0.0089	0.0020 *
Moon	93386-08-26 23:17 G	35829834.24	35829834.47	35829834.72	0.0089	0.0036
Earth	93386-08-27 00:43 G	35829834.32	35829834.53	35829834.79	0.0089	0.0037 *
Saturn	93387-04-17 21:07 G	35830067.82	35830068.38	35830069.03	0.0089	0.0032
Earth	93387-08-29 11:31 G	35830201.80	35830201.98	35830202.20	0.0089	0.0055
Moon	93387-08-29 14:24 G	35830201.93	35830202.10	35830202.32	0.0089	0.0056 *
Moon	93388-08-30 18:58 G	35830569.16	35830569.29	35830569.46	0.0089	0.0072
Earth	93388-08-30 22:34 G	35830569.31	35830569.44	35830569.60	0.0089	0.0073 *
Jupiter	93391-04-19 10:34 G	35831530.59	35831530.94	35831531.36	0.0089	0.0061
Mercury	93419-07-25 20:38 G	35841854.34	35841854.36	35841854.41	0.0088	0.0084
Mercury	93419-10-21 22:05 G	35841942.37	35841942.42	35841942.49	0.0088	0.0077
Mars	93419-11-28 17:31 G	35841979.91	35841980.23	35841980.58	0.0088	0.0025
Mercury	93420-01-17 23:17 G	35842030.40	35842030.47	35842030.56	0.0088	0.0070
Mercury	93420-04-15 00:43 G	35842118.44	35842118.53	35842118.63	0.0088	0.0063
Mercury	93420-07-12 01:55 G	35842206.49	35842206.58	35842206.69	0.0088	0.0056
Mercury	93420-10-08 03:07 G	35842294.53	35842294.63	35842294.75	0.0088	0.0049
Mercury	93421-01-04 04:34 G	35842382.58	35842382.69	35842382.81	0.0088	0.0042
Mercury	93421-04-02 05:46 G	35842470.63	35842470.74	35842470.87	0.0088	0.0035
Mercury	93421-06-29 07:12 G	35842558.67	35842558.80	35842558.93	0.0088	0.0027
Mercury	93421-09-25 08:24 G	35842646.72	35842646.85	35842646.98	0.0088	0.0021
Mercury	93421-12-22 09:50 G	35842734.78	35842734.91	35842735.04	0.0088	0.0013



Mercury	93422-03-20 11:02 G	35842822.83	35842822.96	35842823.09	0.0088	0.0006
Mercury	93422-06-16 12:29 G	35842910.88	35842911.02	35842911.15	0.0088	0.0003
Mercury	93422-09-12 13:41 G	35842998.94	35842999.07	35842999.20	0.0088	0.0008
Mercury	93422-12-09 14:53 G	35843086.99	35843087.12	35843087.25	0.0088	0.0015
Mercury	93423-03-07 16:19 G	35843175.05	35843175.18	35843175.31	0.0088	0.0022
Mercury	93423-06-03 17:31 G	35843263.11	35843263.23	35843263.36	0.0088	0.0029
Mercury	93423-08-30 18:43 G	35843351.16	35843351.28	35843351.41	0.0088	0.0036
Mercury	93423-11-26 19:55 G	35843439.22	35843439.33	35843439.46	0.0088	0.0044
Mercury	93424-02-22 21:22 G	35843527.29	35843527.39	35843527.50	0.0088	0.0051
Mercury	93424-05-20 22:34 G	35843615.35	35843615.44	35843615.55	0.0088	0.0058
Mercury	93424-08-17 00:00 G	35843703.42	35843703.50	35843703.59	0.0088	0.0065
Mercury	93424-11-13 01:12 G	35843791.49	35843791.55	35843791.64	0.0088	0.0072
Mercury	93425-02-09 02:38 G	35843879.56	35843879.61	35843879.67	0.0088	0.0079
Mercury	93425-05-08 04:05 G	35843967.65	35843967.67	35843967.69	0.0088	0.0086
Venus	93456-02-10 00:14 G	35855202.46	35855202.51	35855202.60	0.0088	0.0083
Venus	93456-09-22 13:12 G	35855427.95	35855428.05	35855428.20	0.0088	0.0073
Venus	93457-05-06 02:38 G	35855653.47	35855653.61	35855653.78	0.0088	0.0062
Venus	93457-12-17 15:50 G	35855879.00	35855879.16	35855879.36	0.0088	0.0052
Venus	93458-07-31 05:02 G	35856104.53	35856104.71	35856104.92	0.0088	0.0041
Venus	93459-03-13 18:29 G	35856330.06	35856330.27	35856330.48	0.0088	0.0031
Venus	93459-10-25 07:26 G	35856555.60	35856555.81	35856556.03	0.0088	0.0020
Venus	93460-06-06 20:38 G	35856781.14	35856781.36	35856781.58	0.0088	0.0009
Venus	93461-01-18 09:36 G	35857006.68	35857006.90	35857007.13	0.0088	0.0002
Venus	93461-08-31 22:34 G	35857232.23	35857232.44	35857232.67	0.0088	0.0012
Venus	93462-04-14 11:31 G	35857457.77	35857457.98	35857458.20	0.0088	0.0022
Venus	93462-11-26 00:29 G	35857683.33	35857683.52	35857683.74	0.0088	0.0034
Venus	93463-07-09 13:41 G	35857908.89	35857909.07	35857909.27	0.0088	0.0044
Earth	93464-02-16 11:31 G	35858130.86	35858130.98	35858131.16	0.0088	0.0072
Moon	93464-02-16 14:24 G	35858130.95	35858131.10	35858131.30	0.0088	0.0067 *
Venus	93464-02-20 02:24 G	35858134.45	35858134.60	35858134.80	0.0088	0.0055

Venus	93464-10-02 15:36 G	35858360.01	35858360.15	35858360.31	0.0088	0.0065
Moon	93465-02-17 22:34 G	35858498.27	35858498.44	35858498.66	0.0088	0.0058
Earth	93465-02-18 00:29 G	35858498.33	35858498.52	35858498.74	0.0088	0.0053 *
Venus	93465-05-16 04:48 G	35858585.59	35858585.70	35858585.82	0.0088	0.0075
Venus	93465-12-27 17:31 G	35858811.20	35858811.23	35858811.31	0.0088	0.0086
Moon	93466-02-20 12:58 G	35858865.80	35858866.04	35858866.31	0.0088	0.0030
Earth	93466-02-20 12:58 G	35858865.81	35858866.04	35858866.29	0.0088	0.0034 *
Earth	93467-02-23 01:41 G	35859233.32	35859233.57	35859233.83	0.0088	0.0016
Moon	93467-02-23 02:10 G	35859233.36	35859233.59	35859233.85	0.0088	0.0020 *
Moon	93468-02-25 12:14 G	35859600.75	35859601.01	35859601.28	0.0088	0.0007
Earth	93468-02-25 14:24 G	35859600.84	35859601.10	35859601.36	0.0088	0.0003 *
Earth	93469-02-27 02:38 G	35859968.37	35859968.61	35859968.88	0.0089	0.0022
Moon	93469-02-27 05:46 G	35859968.50	35859968.74	35859969.00	0.0089	0.0017 *
Moon	93470-03-01 11:46 G	35860335.78	35860335.99	35860336.24	0.0089	0.0044
Earth	93470-03-01 15:22 G	35860335.92	35860336.14	35860336.38	0.0089	0.0040 *
Earth	93471-03-04 03:07 G	35860703.47	35860703.63	35860703.86	0.0089	0.0059
Moon	93471-03-04 07:12 G	35860703.61	35860703.80	35860704.02	0.0089	0.0055 *
Moon	93472-03-05 12:43 G	35861070.95	35861071.03	35861071.16	0.0089	0.0081
Earth	93472-03-05 15:50 G	35861071.05	35861071.16	35861071.31	0.0089	0.0077 *
Mars	93501-09-30 00:29 G	35871870.26	35871870.52	35871870.81	0.0090	0.0029
Mercury	93503-04-10 10:48 G	35872427.92	35872427.95	35872428.02	0.0090	0.0087
Mercury	93503-07-07 14:38 G	35872516.02	35872516.11	35872516.23	0.0090	0.0076
Mars	93503-08-24 12:29 G	35872563.89	35872564.02	35872564.15	0.0090	0.0079
Mercury	93503-10-03 18:43 G	35872604.15	35872604.28	35872604.42	0.0090	0.0064
Mercury	93503-12-30 22:19 G	35872692.28	35872692.43	35872692.59	0.0090	0.0053
Mercury	93504-03-28 02:10 G	35872780.42	35872780.59	35872780.76	0.0090	0.0042
Mercury	93504-06-24 05:46 G	35872868.56	35872868.74	35872868.92	0.0090	0.0031
Mercury	93504-09-20 09:07 G	35872956.71	35872956.88	35872957.08	0.0090	0.0021
Mercury	93504-12-17 12:58 G	35873044.85	35873045.04	35873045.24	0.0090	0.0010
Mercury	93505-03-15 16:48 G	35873133.01	35873133.20	35873133.39	0.0090	0.0002

Mercury	93505-06-11 20:24 G	35873221.16	35873221.35	35873221.54	0.0090	0.0013
Mercury	93505-09-08 00:00 G	35873309.32	35873309.50	35873309.69	0.0090	0.0024
Mercury	93505-12-05 03:22 G	35873397.48	35873397.64	35873397.83	0.0090	0.0035
Mercury	93506-03-03 06:58 G	35873485.64	35873485.79	35873485.97	0.0090	0.0046
Mercury	93506-05-30 10:34 G	35873573.81	35873573.94	35873574.10	0.0090	0.0057
Mercury	93506-08-26 13:55 G	35873661.98	35873662.08	35873662.23	0.0090	0.0068
Mercury	93506-11-22 18:00 G	35873750.16	35873750.25	35873750.35	0.0090	0.0078
Mercury	93507-02-18 21:22 G	35873838.38	35873838.39	35873838.43	0.0090	0.0089
Venus	93537-01-01 02:38 G	35884747.60	35884747.61	35884747.65	0.0089	0.0089
Venus	93537-08-14 15:07 G	35884973.05	35884973.13	35884973.26	0.0089	0.0079
Venus	93538-03-28 04:05 G	35885198.55	35885198.67	35885198.83	0.0089	0.0068
Venus	93538-11-08 17:17 G	35885424.06	35885424.22	35885424.39	0.0089	0.0057
Venus	93539-06-22 06:00 G	35885649.58	35885649.75	35885649.95	0.0089	0.0046
Venus	93540-02-02 18:58 G	35885875.10	35885875.29	35885875.50	0.0089	0.0035
Venus	93540-09-15 07:55 G	35886100.62	35886100.83	35886101.04	0.0089	0.0025
Venus	93541-04-28 20:38 G	35886326.16	35886326.36	35886326.59	0.0089	0.0015
Venus	93541-12-10 09:50 G	35886551.69	35886551.91	35886552.13	0.0089	0.0003
Venus	93542-07-23 22:34 G	35886777.23	35886777.44	35886777.67	0.0089	0.0008
Venus	93543-03-06 11:17 G	35887002.77	35887002.97	35887003.20	0.0089	0.0019
Venus	93543-10-18 00:29 G	35887228.32	35887228.52	35887228.73	0.0089	0.0029
Venus	93544-05-30 13:26 G	35887453.87	35887454.06	35887454.27	0.0089	0.0040
Moon	93544-08-14 12:14 G	35887529.89	35887530.01	35887530.16	0.0089	0.0074
Earth	93544-08-14 15:36 G	35887530.03	35887530.15	35887530.27	0.0089	0.0078 *
Venus	93545-01-11 02:10 G	35887679.43	35887679.59	35887679.79	0.0089	0.0051
Earth	93545-08-17 02:10 G	35887897.42	35887897.59	35887897.79	0.0089	0.0060
Moon	93545-08-17 04:34 G	35887897.53	35887897.69	35887897.89	0.0089	0.0065 *
Venus	93545-08-24 15:22 G	35887904.99	35887905.14	35887905.31	0.0089	0.0061
Venus	93546-04-07 04:05 G	35888130.56	35888130.67	35888130.82	0.0089	0.0072
Moon	93546-08-19 12:14 G	35888264.80	35888265.01	35888265.25	0.0089	0.0038
Earth	93546-08-19 13:12 G	35888264.84	35888265.05	35888265.29	0.0089	0.0042 *

Venus	93546-11-18 17:31 G	35888356.15	35888356.23	35888356.31	0.0089	0.0082
Earth	93547-08-22 00:00 G	35888632.26	35888632.50	35888632.76	0.0089	0.0024
Moon	93547-08-21 23:46 G	35888632.26	35888632.49	35888632.76	0.0089	0.0028 *
Earth	93548-08-23 10:48 G	35888999.70	35888999.95	35889000.21	0.0089	0.0006
Moon	93548-08-23 12:14 G	35888999.76	35889000.01	35889000.26	0.0089	0.0001 *
Moon	93549-08-25 18:58 G	35889367.03	35889367.29	35889367.55	0.0089	0.0009
Earth	93549-08-25 21:50 G	35889367.16	35889367.41	35889367.66	0.0089	0.0013 *
Earth	93550-08-28 08:24 G	35889734.62	35889734.85	35889735.09	0.0089	0.0031
Moon	93550-08-28 11:02 G	35889734.75	35889734.96	35889735.21	0.0089	0.0036 *
Moon	93551-08-30 15:07 G	35890101.93	35890102.13	35890102.38	0.0089	0.0045
Earth	93551-08-30 18:43 G	35890102.10	35890102.28	35890102.52	0.0089	0.0050 *
Earth	93552-09-01 06:00 G	35890469.58	35890469.75	35890469.91	0.0089	0.0067
Moon	93552-09-01 08:53 G	35890469.74	35890469.87	35890470.04	0.0089	0.0072 *
Moon	93553-09-03 13:41 G	35890836.98	35890837.07	35890837.18	0.0089	0.0081
Earth	93553-09-03 16:05 G	35890837.14	35890837.17	35890837.27	0.0089	0.0086 *
Jupiter	93557-06-10 16:19 G	35892212.87	35892213.18	35892213.58	0.0089	0.0066
Mars	93583-07-12 19:41 G	35901740.99	35901741.32	35901741.66	0.0088	0.0024
Mercury	93584-04-21 20:10 G	35902025.31	35902025.34	35902025.40	0.0088	0.0082
Mercury	93584-07-18 21:22 G	35902113.34	35902113.39	35902113.47	0.0088	0.0075
Mercury	93584-10-14 22:48 G	35902201.37	35902201.45	35902201.54	0.0088	0.0068
Mercury	93585-01-11 00:00 G	35902289.41	35902289.50	35902289.60	0.0088	0.0061
Mercury	93585-04-09 01:12 G	35902377.46	35902377.55	35902377.67	0.0088	0.0054
Mercury	93585-07-06 02:38 G	35902465.50	35902465.61	35902465.73	0.0088	0.0047
Mercury	93585-10-02 03:50 G	35902553.55	35902553.66	35902553.79	0.0088	0.0040
Mercury	93585-12-29 05:17 G	35902641.60	35902641.72	35902641.85	0.0088	0.0032
Mercury	93586-03-27 06:29 G	35902729.65	35902729.77	35902729.90	0.0088	0.0026
Mercury	93586-06-23 07:55 G	35902817.70	35902817.83	35902817.96	0.0088	0.0018
Mercury	93586-09-19 09:07 G	35902905.75	35902905.88	35902906.01	0.0088	0.0011
Mercury	93586-12-16 10:34 G	35902993.80	35902993.94	35902994.07	0.0088	0.0005
Mercury	93587-03-14 11:46 G	35903081.86	35903081.99	35903082.12	0.0088	0.0003

Mercury	93587-06-10 12:58 G	35903169.91	35903170.04	35903170.18	0.0088	0.0010
Mercury	93587-09-06 14:24 G	35903257.97	35903258.10	35903258.23	0.0088	0.0017
Mercury	93587-12-03 15:36 G	35903346.02	35903346.15	35903346.28	0.0088	0.0024
Mercury	93588-02-29 16:48 G	35903434.08	35903434.20	35903434.33	0.0088	0.0031
Mercury	93588-05-27 18:00 G	35903522.14	35903522.25	35903522.38	0.0088	0.0039
Mercury	93588-08-23 19:26 G	35903610.20	35903610.31	35903610.43	0.0088	0.0046
Mercury	93588-11-19 20:38 G	35903698.26	35903698.36	35903698.48	0.0088	0.0053
Mercury	93589-02-15 22:05 G	35903786.33	35903786.42	35903786.52	0.0088	0.0060
Mercury	93589-05-14 23:17 G	35903874.39	35903874.47	35903874.56	0.0088	0.0067
Mercury	93589-08-11 00:43 G	35903962.46	35903962.53	35903962.60	0.0088	0.0074
Mercury	93589-11-07 02:10 G	35904050.54	35904050.59	35904050.64	0.0088	0.0081
Venus	93620-05-14 09:50 G	35915196.88	35915196.91	35915196.96	0.0088	0.0087
Venus	93620-12-25 22:48 G	35915422.36	35915422.45	35915422.58	0.0088	0.0076
Venus	93621-08-08 12:29 G	35915647.87	35915648.02	35915648.17	0.0088	0.0066
Venus	93622-03-22 01:12 G	35915873.40	35915873.55	35915873.74	0.0088	0.0056
Venus	93622-11-02 14:53 G	35916098.93	35916099.12	35916099.31	0.0088	0.0045
Venus	93623-06-16 03:50 G	35916324.46	35916324.66	35916324.87	0.0088	0.0034
Venus	93624-01-27 17:02 G	35916550.00	35916550.21	35916550.43	0.0088	0.0023
Venus	93624-09-09 06:00 G	35916775.54	35916775.75	35916775.98	0.0088	0.0013
Venus	93625-04-22 19:12 G	35917001.08	35917001.30	35917001.53	0.0088	0.0003
Venus	93625-12-04 08:24 G	35917226.63	35917226.85	35917227.08	0.0088	0.0008
Venus	93626-07-17 21:22 G	35917452.18	35917452.39	35917452.61	0.0088	0.0019
Venus	93627-02-28 10:19 G	35917677.73	35917677.93	35917678.15	0.0088	0.0030
Venus	93627-10-11 23:02 G	35917903.28	35917903.46	35917903.68	0.0088	0.0041
Moon	93628-02-16 17:46 G	35918031.14	35918031.24	35918031.38	0.0088	0.0077
Earth	93628-02-16 18:58 G	35918031.16	35918031.29	35918031.43	0.0088	0.0076 *
Venus	93628-05-24 12:14 G	35918128.84	35918129.01	35918129.21	0.0088	0.0051
Venus	93629-01-05 01:12 G	35918354.41	35918354.55	35918354.73	0.0088	0.0061
Moon	93629-02-18 07:12 G	35918398.60	35918398.80	35918399.02	0.0088	0.0056
Earth	93629-02-18 07:12 G	35918398.61	35918398.80	35918399.01	0.0088	0.0058 *

Venus	93629-08-18 14:24 G	35918579.98	35918580.10	35918580.24	0.0088	0.0072
Earth	93630-02-20 19:26 G	35918766.09	35918766.31	35918766.56	0.0088	0.0040
Moon	93630-02-20 21:22 G	35918766.18	35918766.39	35918766.63	0.0088	0.0041 *
Venus	93630-04-01 03:36 G	35918805.57	35918805.65	35918805.74	0.0088	0.0082
Moon	93631-02-23 05:46 G	35919133.48	35919133.74	35919134.00	0.0088	0.0020
Earth	93631-02-23 07:55 G	35919133.60	35919133.83	35919134.10	0.0088	0.0022 *
Earth	93632-02-25 20:53 G	35919501.11	35919501.37	35919501.63	0.0088	0.0002
Moon	93632-02-26 00:00 G	35919501.25	35919501.50	35919501.76	0.0088	0.0005 *
Moon	93633-02-27 05:31 G	35919868.49	35919868.73	35919869.00	0.0088	0.0018
Earth	93633-02-27 09:07 G	35919868.64	35919868.88	35919869.15	0.0088	0.0017 *
Earth	93634-03-01 21:36 G	35920236.17	35920236.40	35920236.65	0.0089	0.0035
Moon	93634-03-02 01:12 G	35920236.31	35920236.55	35920236.80	0.0089	0.0032 *
Moon	93635-03-04 06:58 G	35920603.61	35920603.79	35920604.00	0.0089	0.0056
Earth	93635-03-04 10:19 G	35920603.73	35920603.93	35920604.15	0.0089	0.0053 *
Earth	93636-03-05 22:34 G	35920971.31	35920971.44	35920971.62	0.0089	0.0072
Moon	93636-03-06 00:43 G	35920971.38	35920971.53	35920971.72	0.0089	0.0069 *
Mars	93665-05-15 12:29 G	35931633.87	35931634.02	35931634.23	0.0090	0.0070
Mars	93667-04-09 02:38 G	35932327.37	35932327.61	35932327.89	0.0090	0.0038
Mercury	93668-01-05 08:53 G	35932598.81	35932598.87	35932598.95	0.0090	0.0083
Mercury	93668-04-02 12:43 G	35932686.92	35932687.03	35932687.15	0.0090	0.0072
Mercury	93668-06-29 16:19 G	35932775.05	35932775.18	35932775.33	0.0090	0.0061
Mercury	93668-09-25 20:10 G	35932863.18	35932863.34	35932863.50	0.0090	0.0050
Mercury	93668-12-22 23:46 G	35932951.32	35932951.49	35932951.67	0.0090	0.0039
Mercury	93669-03-21 03:36 G	35933039.47	35933039.65	35933039.83	0.0090	0.0028
Mercury	93669-06-17 07:12 G	35933127.61	35933127.80	35933127.99	0.0090	0.0017
Mercury	93669-09-13 10:48 G	35933215.76	35933215.95	35933216.15	0.0090	0.0006
Mercury	93669-12-10 14:38 G	35933303.91	35933304.11	35933304.30	0.0090	0.0005
Mercury	93670-03-08 18:14 G	35933392.07	35933392.26	35933392.45	0.0090	0.0016
Mercury	93670-06-04 21:50 G	35933480.23	35933480.41	35933480.59	0.0090	0.0027
Mercury	93670-09-01 01:26 G	35933568.39	35933568.56	35933568.74	0.0090	0.0038

Mercury	93670-11-28 04:48 G	35933656.55	35933656.70	35933656.87	0.0090	0.0049
Mercury	93671-02-24 08:24 G	35933744.72	35933744.85	35933745.01	0.0090	0.0060
Mercury	93671-05-23 12:00 G	35933832.90	35933833.00	35933833.13	0.0090	0.0071
Mercury	93671-08-19 15:22 G	35933921.08	35933921.14	35933921.24	0.0090	0.0082
Venus	93701-11-17 01:12 G	35944967.47	35944967.55	35944967.64	0.0089	0.0082
Venus	93702-06-30 13:41 G	35945192.96	35945193.07	35945193.22	0.0089	0.0071
Venus	93703-02-11 02:38 G	35945418.46	35945418.61	35945418.78	0.0089	0.0061
Venus	93703-09-24 15:22 G	35945643.98	35945644.14	35945644.34	0.0089	0.0050
Venus	93704-05-07 04:19 G	35945869.50	35945869.68	35945869.89	0.0089	0.0040
Venus	93704-12-18 17:31 G	35946095.03	35946095.23	35946095.44	0.0089	0.0028
Venus	93705-08-01 06:29 G	35946320.55	35946320.77	35946320.98	0.0089	0.0018
Venus	93706-03-14 19:12 G	35946546.08	35946546.30	35946546.52	0.0089	0.0007
Venus	93706-10-26 08:10 G	35946771.62	35946771.84	35946772.06	0.0089	0.0004
Venus	93707-06-08 20:53 G	35946997.16	35946997.37	35946997.59	0.0089	0.0015
Venus	93708-01-20 09:50 G	35947222.71	35947222.91	35947223.13	0.0089	0.0026
Earth	93708-08-14 22:34 G	35947430.38	35947430.44	35947430.55	0.0089	0.0084
Moon	93708-08-15 00:43 G	35947430.43	35947430.53	35947430.64	0.0089	0.0081 *
Venus	93708-09-01 22:48 G	35947448.25	35947448.45	35947448.65	0.0089	0.0036
Venus	93709-04-15 11:31 G	35947673.81	35947673.98	35947674.18	0.0089	0.0047
Moon	93709-08-17 08:53 G	35947797.73	35947797.87	35947798.05	0.0089	0.0068
Earth	93709-08-17 09:36 G	35947797.75	35947797.90	35947798.10	0.0089	0.0066 *
Venus	93709-11-27 00:14 G	35947899.37	35947899.51	35947899.70	0.0089	0.0058
Venus	93710-07-10 13:41 G	35948124.94	35948125.07	35948125.22	0.0089	0.0068
Saturn	93710-07-25 22:34 G	35948139.95	35948140.44	35948141.06	0.0089	0.0044
Moon	93710-08-19 19:41 G	35948165.11	35948165.32	35948165.57	0.0089	0.0045
Earth	93710-08-19 21:07 G	35948165.17	35948165.38	35948165.60	0.0089	0.0047 *
Venus	93711-02-21 02:24 G	35948350.52	35948350.60	35948350.72	0.0089	0.0079
Earth	93711-08-22 07:55 G	35948532.60	35948532.83	35948533.08	0.0089	0.0029
Moon	93711-08-22 09:36 G	35948532.68	35948532.90	35948533.15	0.0089	0.0032 *
Moon	93712-08-23 16:19 G	35948899.92	35948900.18	35948900.44	0.0089	0.0009

Earth	93712-08-23 18:58 G	35948900.04	35948900.29	35948900.55	0.0089	0.0011	*
Earth	93713-08-26 05:46 G	35949267.49	35949267.74	35949268.00	0.0089	0.0008	
Moon	93713-08-26 09:22 G	35949267.64	35949267.89	35949268.15	0.0089	0.0005	*
Moon	93714-08-28 13:26 G	35949634.82	35949635.06	35949635.30	0.0089	0.0028	
Earth	93714-08-28 16:34 G	35949634.96	35949635.19	35949635.45	0.0089	0.0026	*
Earth	93715-08-31 03:22 G	35950002.42	35950002.64	35950002.86	0.0089	0.0044	
Moon	93715-08-31 06:43 G	35950002.56	35950002.78	35950003.02	0.0089	0.0043	*
Moon	93716-09-01 11:31 G	35950369.83	35950369.98	35950370.17	0.0089	0.0065	
Earth	93716-09-01 14:24 G	35950369.92	35950370.10	35950370.28	0.0089	0.0062	*
Earth	93717-09-04 00:14 G	35950737.44	35950737.51	35950737.65	0.0089	0.0081	
Moon	93717-09-04 02:10 G	35950737.49	35950737.59	35950737.73	0.0089	0.0079	*
Mars	93747-02-23 22:05 G	35961502.26	35961502.42	35961502.65	0.0088	0.0072	
Mercury	93748-10-21 18:14 G	35962108.25	35962108.26	35962108.30	0.0088	0.0087	
Mercury	93749-01-17 19:26 G	35962196.27	35962196.31	35962196.38	0.0088	0.0080	
Mars	93749-01-20 09:22 G	35962198.63	35962198.89	35962199.18	0.0088	0.0053	
Mercury	93749-04-15 20:53 G	35962284.31	35962284.37	35962284.45	0.0088	0.0073	
Mercury	93749-07-12 22:05 G	35962372.35	35962372.42	35962372.52	0.0088	0.0066	
Mercury	93749-10-08 23:31 G	35962460.39	35962460.48	35962460.59	0.0088	0.0058	
Mercury	93750-01-05 00:58 G	35962548.43	35962548.54	35962548.65	0.0088	0.0051	
Mercury	93750-04-03 01:55 G	35962636.48	35962636.58	35962636.71	0.0088	0.0045	
Mercury	93750-06-30 03:36 G	35962724.53	35962724.65	35962724.77	0.0088	0.0037	
Mercury	93750-09-26 04:48 G	35962812.58	35962812.70	35962812.83	0.0088	0.0030	
Mercury	93750-12-23 06:00 G	35962900.63	35962900.75	35962900.88	0.0088	0.0023	
Mercury	93751-03-21 07:26 G	35962988.68	35962988.81	35962988.94	0.0088	0.0016	
Mercury	93751-06-17 08:38 G	35963076.73	35963076.86	35963076.99	0.0088	0.0009	
Mercury	93751-09-13 09:50 G	35963164.78	35963164.91	35963165.05	0.0088	0.0004	
Mercury	93751-12-10 11:17 G	35963252.84	35963252.97	35963253.10	0.0088	0.0005	
Mercury	93752-03-07 12:29 G	35963340.89	35963341.02	35963341.16	0.0088	0.0013	
Mercury	93752-06-03 13:41 G	35963428.95	35963429.07	35963429.21	0.0088	0.0020	
Mercury	93752-08-30 15:07 G	35963517.00	35963517.13	35963517.26	0.0088	0.0027	



Mercury	93752-11-26 16:19 G	35963605.06	35963605.18	35963605.31	0.0088	0.0034
Mercury	93753-02-22 17:46 G	35963693.12	35963693.24	35963693.36	0.0088	0.0041
Mercury	93753-05-21 18:58 G	35963781.18	35963781.29	35963781.41	0.0088	0.0048
Mercury	93753-08-17 20:24 G	35963869.25	35963869.35	35963869.45	0.0088	0.0055
Mercury	93753-11-13 21:36 G	35963957.31	35963957.40	35963957.50	0.0088	0.0062
Mercury	93754-02-09 22:48 G	35964045.38	35964045.45	35964045.54	0.0088	0.0069
Mercury	93754-05-09 00:00 G	35964133.45	35964133.50	35964133.58	0.0088	0.0077
Mercury	93754-08-05 01:26 G	35964221.53	35964221.56	35964221.61	0.0088	0.0084
Venus	93785-03-30 08:38 G	35975416.78	35975416.86	35975416.97	0.0088	0.0079
Venus	93785-11-10 21:50 G	35975642.29	35975642.41	35975642.57	0.0088	0.0069
Venus	93786-06-24 11:17 G	35975867.81	35975867.97	35975868.15	0.0088	0.0058
Venus	93787-02-05 00:14 G	35976093.34	35976093.51	35976093.71	0.0088	0.0048
Venus	93787-09-18 13:41 G	35976318.87	35976319.07	35976319.28	0.0088	0.0037
Venus	93788-05-01 02:38 G	35976544.41	35976544.61	35976544.84	0.0088	0.0027
Venus	93788-12-12 16:05 G	35976769.96	35976770.17	35976770.40	0.0088	0.0016
Venus	93789-07-26 05:31 G	35976995.51	35976995.73	35976995.95	0.0088	0.0006
Venus	93790-03-08 18:29 G	35977221.05	35977221.27	35977221.49	0.0088	0.0005
Venus	93790-10-20 07:41 G	35977446.60	35977446.82	35977447.04	0.0088	0.0016
Venus	93791-06-02 20:38 G	35977672.15	35977672.36	35977672.58	0.0088	0.0026
Venus	93792-01-14 09:36 G	35977897.71	35977897.90	35977898.11	0.0088	0.0037
Moon	93792-02-17 00:58 G	35977931.49	35977931.54	35977931.64	0.0088	0.0085
Earth	93792-02-17 02:10 G	35977931.51	35977931.59	35977931.72	0.0088	0.0081 *
Venus	93792-08-26 22:34 G	35978123.27	35978123.44	35978123.64	0.0088	0.0048
Earth	93793-02-18 14:38 G	35978298.95	35978299.11	35978299.32	0.0088	0.0063
Moon	93793-02-18 16:48 G	35978299.02	35978299.20	35978299.40	0.0088	0.0058 *
Venus	93793-04-09 11:31 G	35978348.83	35978348.98	35978349.16	0.0088	0.0058
Venus	93793-11-21 00:43 G	35978574.41	35978574.53	35978574.68	0.0088	0.0069
Moon	93794-02-21 00:14 G	35978666.29	35978666.51	35978666.74	0.0088	0.0049
Earth	93794-02-21 03:36 G	35978666.42	35978666.65	35978666.88	0.0088	0.0044 *
Venus	93794-07-04 14:10 G	35978799.99	35978800.09	35978800.18	0.0088	0.0079

Earth	93795-02-23 15:50 G	35979033.92	35979034.16	35979034.42	0.0088	0.0026
Moon	93795-02-23 19:12 G	35979034.06	35979034.30	35979034.56	0.0088	0.0021 *
Moon	93796-02-26 00:58 G	35979401.28	35979401.54	35979401.80	0.0088	0.0012
Earth	93796-02-26 04:34 G	35979401.43	35979401.69	35979401.95	0.0088	0.0007 *
Earth	93797-02-27 16:34 G	35979768.94	35979769.19	35979769.46	0.0088	0.0012
Moon	93797-02-27 20:10 G	35979769.08	35979769.34	35979769.60	0.0088	0.0016 *
Moon	93798-03-02 02:38 G	35980136.38	35980136.61	35980136.87	0.0089	0.0026
Earth	93798-03-02 05:17 G	35980136.48	35980136.72	35980136.97	0.0089	0.0030 *
Earth	93799-03-04 17:46 G	35980504.03	35980504.24	35980504.47	0.0089	0.0048
Moon	93799-03-04 19:41 G	35980504.12	35980504.32	35980504.55	0.0089	0.0052 *
Moon	93800-03-07 06:14 G	35980871.58	35980871.76	35980871.94	0.0089	0.0062
Earth	93800-03-07 06:00 G	35980871.60	35980871.75	35980871.94	0.0089	0.0067 *
Earth	93801-03-09 18:29 G	35981239.22	35981239.27	35981239.37	0.0089	0.0085
Moon	93801-03-09 17:46 G	35981239.24	35981239.24	35981239.28	0.0089	0.0089 *
Mars	93830-11-24 17:02 G	35992090.93	35992091.21	35992091.50	0.0090	0.0003
Mercury	93832-07-07 03:36 G	35992681.65	35992681.65	35992681.67	0.0090	0.0089
Mercury	93832-10-03 06:57 G	35992769.72	35992769.79	35992769.90	0.0090	0.0079
Mercury	93832-12-30 10:48 G	35992857.84	35992857.95	35992858.09	0.0090	0.0068
Mercury	93833-03-28 14:24 G	35992945.97	35992946.10	35992946.27	0.0090	0.0057
Mercury	93833-06-24 18:14 G	35993034.10	35993034.26	35993034.44	0.0090	0.0046
Mercury	93833-09-20 21:50 G	35993122.24	35993122.41	35993122.60	0.0090	0.0035
Mercury	93833-12-18 01:41 G	35993210.39	35993210.57	35993210.76	0.0090	0.0024
Mercury	93834-03-16 05:17 G	35993298.54	35993298.72	35993298.92	0.0090	0.0013
Mercury	93834-06-12 09:07 G	35993386.69	35993386.88	35993387.07	0.0090	0.0002
Mercury	93834-09-08 12:43 G	35993474.84	35993475.03	35993475.22	0.0090	0.0009
Mercury	93834-12-05 16:19 G	35993563.00	35993563.18	35993563.37	0.0090	0.0020
Mercury	93835-03-03 19:41 G	35993651.15	35993651.32	35993651.52	0.0090	0.0032
Mercury	93835-05-30 23:31 G	35993739.32	35993739.48	35993739.66	0.0090	0.0042
Mercury	93835-08-27 03:07 G	35993827.48	35993827.63	35993827.79	0.0090	0.0053
Mercury	93835-11-23 06:43 G	35993915.65	35993915.78	35993915.92	0.0090	0.0064

Mercury	93836-02-19 10:05 G	35994003.83	35994003.92	35994004.04	0.0090	0.0075
Mercury	93836-05-17 13:41 G	35994092.03	35994092.07	35994092.14	0.0090	0.0086
Venus	93866-02-19 10:48 G	36004961.92	36004961.95	36004962.04	0.0089	0.0086
Venus	93866-10-03 00:00 G	36005187.40	36005187.50	36005187.63	0.0089	0.0075
Venus	93867-05-16 13:12 G	36005412.90	36005413.05	36005413.21	0.0089	0.0064
Venus	93867-12-28 01:41 G	36005638.42	36005638.57	36005638.77	0.0089	0.0054
Venus	93868-08-09 14:38 G	36005863.93	36005864.11	36005864.32	0.0089	0.0043
Venus	93869-03-23 03:50 G	36006089.45	36006089.66	36006089.86	0.0089	0.0032
Venus	93869-11-03 16:19 G	36006314.98	36006315.18	36006315.40	0.0089	0.0021
Venus	93870-06-17 05:31 G	36006540.51	36006540.73	36006540.95	0.0089	0.0010
Venus	93871-01-28 18:14 G	36006766.05	36006766.26	36006766.48	0.0089	0.0002
Venus	93871-09-11 07:12 G	36006991.58	36006991.80	36006992.02	0.0089	0.0011
Venus	93872-04-23 19:55 G	36007217.12	36007217.33	36007217.55	0.0089	0.0022
Earth	93872-08-15 07:41 G	36007330.82	36007330.82	36007330.86	0.0089	0.0089
Venus	93872-12-05 08:38 G	36007442.67	36007442.86	36007443.08	0.0089	0.0033
Venus	93873-07-18 21:50 G	36007668.22	36007668.41	36007668.60	0.0089	0.0043
Moon	93873-08-17 17:17 G	36007698.07	36007698.22	36007698.42	0.0089	0.0067
Earth	93873-08-17 18:14 G	36007698.13	36007698.26	36007698.44	0.0089	0.0071 *
Venus	93874-03-01 10:33 G	36007893.77	36007893.94	36007894.12	0.0089	0.0054
Earth	93874-08-20 05:31 G	36008065.53	36008065.73	36008065.94	0.0089	0.0052
Moon	93874-08-20 07:55 G	36008065.64	36008065.83	36008066.03	0.0089	0.0056 *
Venus	93874-10-12 23:17 G	36008119.34	36008119.47	36008119.63	0.0089	0.0065
Venus	93875-05-26 12:43 G	36008344.92	36008345.03	36008345.14	0.0089	0.0075
Moon	93875-08-22 12:57 G	36008432.81	36008433.04	36008433.29	0.0089	0.0031
Earth	93875-08-22 16:19 G	36008432.95	36008433.18	36008433.42	0.0089	0.0034 *
Venus	93876-01-07 01:12 G	36008570.52	36008570.55	36008570.62	0.0089	0.0086
Earth	93876-08-24 03:07 G	36008800.39	36008800.63	36008800.89	0.0089	0.0016
Moon	93876-08-24 06:43 G	36008800.53	36008800.78	36008801.03	0.0089	0.0020 *
Moon	93877-08-26 10:48 G	36009167.70	36009167.95	36009168.20	0.0089	0.0007
Earth	93877-08-26 14:24 G	36009167.85	36009168.10	36009168.36	0.0089	0.0003 *

Earth	93878-08-29 00:57 G	36009535.30	36009535.54	36009535.80	0.0089	0.0021
Moon	93878-08-29 03:50 G	36009535.41	36009535.66	36009535.92	0.0089	0.0017 *
Moon	93879-08-31 09:21 G	36009902.69	36009902.89	36009903.12	0.0089	0.0044
Earth	93879-08-31 12:00 G	36009902.77	36009903.00	36009903.23	0.0089	0.0039 *
Earth	93880-09-01 22:19 G	36010270.26	36010270.43	36010270.65	0.0089	0.0058
Moon	93880-09-01 23:45 G	36010270.28	36010270.49	36010270.70	0.0089	0.0053 *
Earth	93881-09-04 08:53 G	36010637.77	36010637.87	36010638.04	0.0089	0.0076
Moon	93881-09-04 10:05 G	36010637.81	36010637.92	36010638.03	0.0089	0.0079 *
Mars	93912-09-04 13:41 G	36021959.73	36021960.07	36021960.43	0.0088	0.0006
Mercury	93913-07-20 18:00 G	36022279.22	36022279.25	36022279.29	0.0088	0.0084
Mercury	93913-10-16 19:12 G	36022367.25	36022367.30	36022367.37	0.0088	0.0077
Mercury	93914-01-12 20:24 G	36022455.28	36022455.35	36022455.44	0.0088	0.0070
Mercury	93914-04-10 21:50 G	36022543.32	36022543.41	36022543.50	0.0088	0.0063
Mercury	93914-07-07 23:02 G	36022631.37	36022631.46	36022631.57	0.0088	0.0056
Mercury	93914-10-04 00:14 G	36022719.41	36022719.51	36022719.63	0.0088	0.0049
Mercury	93914-12-31 01:41 G	36022807.46	36022807.57	36022807.69	0.0088	0.0042
Mercury	93915-03-29 02:53 G	36022895.51	36022895.62	36022895.75	0.0088	0.0035
Mercury	93915-06-25 04:19 G	36022983.55	36022983.68	36022983.81	0.0088	0.0028
Mercury	93915-09-21 05:31 G	36023071.60	36023071.73	36023071.86	0.0088	0.0021
Mercury	93915-12-18 06:57 G	36023159.66	36023159.79	36023159.92	0.0088	0.0014
Mercury	93916-03-15 08:09 G	36023247.71	36023247.84	36023247.98	0.0088	0.0007
Mercury	93916-06-11 09:36 G	36023335.76	36023335.90	36023336.03	0.0088	0.0003
Mercury	93916-09-07 10:48 G	36023423.82	36023423.95	36023424.08	0.0088	0.0008
Mercury	93916-12-04 12:00 G	36023511.87	36023512.00	36023512.14	0.0088	0.0015
Mercury	93917-03-02 13:26 G	36023599.93	36023600.06	36023600.19	0.0088	0.0022
Mercury	93917-05-29 14:38 G	36023687.99	36023688.11	36023688.24	0.0088	0.0029
Mercury	93917-08-25 15:50 G	36023776.05	36023776.16	36023776.29	0.0088	0.0036
Mercury	93917-11-21 17:02 G	36023864.11	36023864.21	36023864.34	0.0088	0.0044
Mercury	93918-02-17 18:29 G	36023952.17	36023952.27	36023952.38	0.0088	0.0050
Mercury	93918-05-16 19:41 G	36024040.23	36024040.32	36024040.43	0.0088	0.0058

Mercury	93918-08-12 21:07 G	36024128.30	36024128.38	36024128.47	0.0088	0.0065
Mercury	93918-11-08 22:19 G	36024216.36	36024216.43	36024216.51	0.0088	0.0072
Mercury	93919-02-04 23:45 G	36024304.44	36024304.49	36024304.55	0.0088	0.0079
Mercury	93919-05-04 01:12 G	36024392.53	36024392.55	36024392.57	0.0088	0.0086
Venus	93949-07-03 18:57 G	36035411.22	36035411.29	36035411.37	0.0088	0.0082
Venus	93950-02-14 07:41 G	36035636.72	36035636.82	36035636.97	0.0088	0.0073
Venus	93950-09-27 21:21 G	36035862.23	36035862.39	36035862.55	0.0088	0.0062
Venus	93951-05-11 10:05 G	36036087.76	36036087.92	36036088.12	0.0088	0.0052
Venus	93951-12-22 23:45 G	36036313.30	36036313.49	36036313.69	0.0088	0.0040
Venus	93952-08-04 12:43 G	36036538.83	36036539.03	36036539.25	0.0088	0.0030
Venus	93953-03-18 02:09 G	36036764.37	36036764.59	36036764.81	0.0088	0.0019
Venus	93953-10-29 15:21 G	36036989.92	36036990.14	36036990.36	0.0088	0.0009
Venus	93954-06-12 04:33 G	36037215.47	36037215.69	36037215.91	0.0088	0.0002
Venus	93955-01-23 17:45 G	36037441.02	36037441.24	36037441.46	0.0088	0.0013
Venus	93955-09-06 06:43 G	36037666.57	36037666.78	36037667.00	0.0088	0.0023
Earth	93956-02-18 09:36 G	36037831.87	36037831.90	36037832.00	0.0088	0.0086
Moon	93956-02-18 13:12 G	36037832.00	36037832.05	36037832.11	0.0088	0.0086 *
Venus	93956-04-18 19:41 G	36037892.13	36037892.32	36037892.54	0.0088	0.0034
Venus	93956-11-30 08:53 G	36038117.69	36038117.87	36038118.08	0.0088	0.0045
Moon	93957-02-19 18:57 G	36038199.15	36038199.29	36038199.50	0.0088	0.0068
Earth	93957-02-19 22:48 G	36038199.29	36038199.45	36038199.63	0.0088	0.0067 *
Venus	93957-07-13 21:50 G	36038343.26	36038343.41	36038343.60	0.0088	0.0055
Earth	93958-02-22 11:02 G	36038566.76	36038566.96	36038567.19	0.0088	0.0049
Moon	93958-02-22 14:53 G	36038566.92	36038567.12	36038567.35	0.0088	0.0048 *
Venus	93958-02-24 11:02 G	36038568.83	36038568.96	36038569.12	0.0088	0.0066
Venus	93958-10-07 23:45 G	36038794.40	36038794.49	36038794.63	0.0088	0.0076
Moon	93959-02-24 20:24 G	36038934.12	36038934.35	36038934.60	0.0088	0.0030
Earth	93959-02-24 23:45 G	36038934.26	36038934.49	36038934.75	0.0088	0.0031 *
Venus	93959-05-21 12:57 G	36039020.01	36039020.04	36039020.10	0.0088	0.0087
Earth	93960-02-27 12:00 G	36039301.76	36039302.00	36039302.27	0.0088	0.0013

Moon	93960-02-27 15:21 G	36039301.88	36039302.14	36039302.41	0.0088	0.0011	*
Moon	93961-02-28 22:48 G	36039669.19	36039669.45	36039669.70	0.0088	0.0006	
Earth	93961-03-01 00:43 G	36039669.28	36039669.53	36039669.80	0.0088	0.0007	*
Earth	93962-03-03 13:12 G	36040036.81	36040037.05	36040037.31	0.0088	0.0025	
Moon	93962-03-03 13:55 G	36040036.83	36040037.08	36040037.35	0.0088	0.0025	*
Earth	93963-03-06 01:26 G	36040404.35	36040404.56	36040404.81	0.0089	0.0044	
Moon	93963-03-06 01:41 G	36040404.36	36040404.57	36040404.80	0.0089	0.0042	*
Moon	93964-03-07 12:29 G	36040771.85	36040772.02	36040772.23	0.0089	0.0063	
Earth	93964-03-07 13:55 G	36040771.92	36040772.08	36040772.29	0.0089	0.0062	*
Earth	93965-03-10 02:38 G	36041139.51	36041139.61	36041139.73	0.0089	0.0080	
Moon	93965-03-10 04:48 G	36041139.62	36041139.70	36041139.84	0.0089	0.0080	*
Mars	93994-07-11 08:53 G	36051854.64	36051854.87	36051855.15	0.0090	0.0043	
Mars	93996-06-03 21:21 G	36052548.20	36052548.39	36052548.60	0.0090	0.0064	
Mercury	93997-04-04 01:41 G	36052852.53	36052852.57	36052852.65	0.0090	0.0085	
Mercury	93997-07-01 05:31 G	36052940.63	36052940.73	36052940.85	0.0090	0.0074	
Mercury	93997-09-27 09:07 G	36053028.76	36053028.88	36053029.03	0.0090	0.0063	
Mercury	93997-12-24 12:57 G	36053116.89	36053117.04	36053117.21	0.0090	0.0052	
Mercury	93998-03-22 16:33 G	36053205.03	36053205.19	36053205.38	0.0090	0.0041	
Mercury	93998-06-18 20:24 G	36053293.17	36053293.35	36053293.54	0.0090	0.0030	
Mercury	93998-09-15 00:00 G	36053381.32	36053381.50	36053381.70	0.0090	0.0019	
Mercury	93998-12-12 03:50 G	36053469.47	36053469.66	36053469.85	0.0090	0.0008	
Mercury	93999-03-10 07:26 G	36053557.62	36053557.81	36053558.01	0.0090	0.0004	
Mercury	93999-06-06 11:02 G	36053645.78	36053645.96	36053646.16	0.0090	0.0014	
Mercury	93999-09-02 14:53 G	36053733.93	36053734.12	36053734.30	0.0090	0.0025	
Mercury	93999-11-29 18:14 G	36053822.09	36053822.26	36053822.45	0.0090	0.0036	
Mercury	94000-02-25 21:50 G	36053910.26	36053910.41	36053910.58	0.0090	0.0047	
Mercury	94000-05-24 01:26 G	36053998.42	36053998.56	36053998.72	0.0090	0.0058	
Mercury	94000-08-20 04:48 G	36054086.60	36054086.70	36054086.85	0.0090	0.0069	
Mercury	94000-11-16 08:24 G	36054174.79	36054174.85	36054174.96	0.0090	0.0080	

# 95TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 95th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	94030-05-24 21:21	G	36064956.39	36064956.39	36064956.45	0.0089	0.0089	
Venus	94031-01-05 10:33	G	36065181.85	36065181.94	36065182.06	0.0089	0.0078	
Venus	94031-08-18 23:17	G	36065407.34	36065407.47	36065407.63	0.0089	0.0067	
Venus	94032-03-31 12:14	G	36065632.85	36065633.01	36065633.19	0.0089	0.0056	
Venus	94032-11-12 01:12	G	36065858.37	36065858.55	36065858.75	0.0089	0.0046	
Venus	94033-06-25 13:55	G	36066083.90	36066084.08	36066084.30	0.0089	0.0036	
Venus	94034-02-06 02:53	G	36066309.42	36066309.62	36066309.84	0.0089	0.0025	
Venus	94034-09-19 15:50	G	36066534.95	36066535.16	36066535.38	0.0089	0.0014	
Venus	94035-05-03 04:48	G	36066760.49	36066760.70	36066760.92	0.0089	0.0003	
Venus	94035-12-14 17:45	G	36066986.02	36066986.24	36066986.46	0.0089	0.0008	
Venus	94036-07-27 06:29	G	36067211.56	36067211.77	36067211.99	0.0089	0.0019	
Venus	94037-03-09 19:12	G	36067437.11	36067437.30	36067437.52	0.0089	0.0030	
Earth	94037-08-18 04:05	G	36067598.55	36067598.67	36067598.82	0.0089	0.0076	
Moon	94037-08-18 06:29	G	36067598.65	36067598.77	36067598.93	0.0089	0.0072	*
Venus	94037-10-21 08:09	G	36067662.65	36067662.84	36067663.04	0.0089	0.0040	
Venus	94038-06-03 21:07	G	36067888.21	36067888.38	36067888.57	0.0089	0.0051	
Moon	94038-08-20 11:17	G	36067965.80	36067965.97	36067966.18	0.0089	0.0061	
Earth	94038-08-20 14:53	G	36067965.94	36067966.12	36067966.33	0.0089	0.0057	*
Venus	94039-01-15 09:50	G	36068113.77	36068113.91	36068114.08	0.0089	0.0062	

Earth	94039-08-23 01:41 G	36068333.35	36068333.57	36068333.81	0.0089	0.0039
Moon	94039-08-23 05:17 G	36068333.50	36068333.72	36068333.97	0.0089	0.0035 *
Venus	94039-08-28 23:02 G	36068339.34	36068339.46	36068339.59	0.0089	0.0072
Venus	94040-04-10 11:31 G	36068564.92	36068564.98	36068565.08	0.0089	0.0083
Moon	94040-08-24 09:21 G	36068700.66	36068700.89	36068701.15	0.0089	0.0024
Earth	94040-08-24 12:43 G	36068700.79	36068701.03	36068701.29	0.0089	0.0021 *
Earth	94041-08-26 23:45 G	36069068.23	36069068.49	36069068.74	0.0089	0.0002
Moon	94041-08-27 02:38 G	36069068.35	36069068.61	36069068.87	0.0089	0.0001 *
Moon	94042-08-29 09:07 G	36069435.64	36069435.88	36069436.13	0.0089	0.0013
Earth	94042-08-29 10:33 G	36069435.69	36069435.94	36069436.20	0.0089	0.0016 *
Earth	94043-08-31 21:36 G	36069803.16	36069803.40	36069803.64	0.0089	0.0034
Moon	94043-08-31 22:05 G	36069803.19	36069803.42	36069803.67	0.0089	0.0037 *
Earth	94044-09-02 07:55 G	36070170.65	36070170.83	36070171.06	0.0089	0.0053
Moon	94044-09-02 08:53 G	36070170.68	36070170.87	36070171.09	0.0089	0.0050 *
Moon	94045-09-04 16:48 G	36070538.07	36070538.20	36070538.36	0.0089	0.0074
Earth	94045-09-04 18:57 G	36070538.16	36070538.29	36070538.46	0.0089	0.0071 *
Moon	94046-09-07 07:55 G	36070905.81	36070905.83	36070905.91	0.0089	0.0087
Mars	94076-04-17 20:38 G	36081721.07	36081721.36	36081721.69	0.0088	0.0040
Mercury	94078-01-18 16:33 G	36082362.19	36082362.19	36082362.19	0.0088	0.0088
Mars	94078-03-15 06:29 G	36082417.70	36082417.77	36082417.90	0.0088	0.0084
Mercury	94078-04-16 17:31 G	36082450.19	36082450.23	36082450.29	0.0088	0.0081
Mercury	94078-07-13 18:57 G	36082538.23	36082538.29	36082538.36	0.0088	0.0074
Mercury	94078-10-09 20:09 G	36082626.26	36082626.34	36082626.43	0.0088	0.0067
Mercury	94079-01-05 21:21 G	36082714.30	36082714.39	36082714.50	0.0088	0.0060
Mercury	94079-04-03 22:48 G	36082802.35	36082802.45	36082802.56	0.0088	0.0053
Mercury	94079-07-01 00:00 G	36082890.39	36082890.50	36082890.62	0.0088	0.0046
Mercury	94079-09-27 01:12 G	36082978.44	36082978.55	36082978.68	0.0088	0.0039
Mercury	94079-12-24 02:38 G	36083066.49	36083066.61	36083066.74	0.0088	0.0032
Mercury	94080-03-21 03:50 G	36083154.54	36083154.66	36083154.80	0.0088	0.0025
Mercury	94080-06-17 05:17 G	36083242.59	36083242.72	36083242.85	0.0088	0.0018



Mercury	94080-09-13 06:29 G	36083330.64	36083330.77	36083330.91	0.0088	0.0011
Mercury	94080-12-10 07:55 G	36083418.70	36083418.83	36083418.96	0.0088	0.0004
Mercury	94081-03-08 09:07 G	36083506.75	36083506.88	36083507.02	0.0088	0.0004
Mercury	94081-06-04 10:33 G	36083594.81	36083594.94	36083595.07	0.0088	0.0011
Mercury	94081-08-31 11:45 G	36083682.86	36083682.99	36083683.12	0.0088	0.0018
Mercury	94081-11-27 12:57 G	36083770.92	36083771.04	36083771.17	0.0088	0.0025
Mercury	94082-02-23 14:24 G	36083858.98	36083859.10	36083859.22	0.0088	0.0032
Mercury	94082-05-22 15:21 G	36083947.03	36083947.14	36083947.27	0.0088	0.0040
Mercury	94082-08-18 16:48 G	36084035.10	36084035.20	36084035.32	0.0088	0.0047
Mercury	94082-11-14 18:00 G	36084123.16	36084123.25	36084123.37	0.0088	0.0054
Mercury	94083-02-10 19:26 G	36084211.22	36084211.31	36084211.41	0.0088	0.0061
Mercury	94083-05-09 20:38 G	36084299.29	36084299.36	36084299.45	0.0088	0.0068
Mercury	94083-08-05 22:05 G	36084387.36	36084387.42	36084387.49	0.0088	0.0075
Mercury	94083-11-01 23:17 G	36084475.44	36084475.47	36084475.52	0.0088	0.0082
Venus	94113-10-06 05:17 G	36095405.68	36095405.72	36095405.79	0.0088	0.0085
Venus	94114-05-19 18:14 G	36095631.17	36095631.26	36095631.40	0.0088	0.0075
Venus	94114-12-31 07:41 G	36095856.68	36095856.82	36095856.98	0.0088	0.0065
Venus	94115-08-13 20:38 G	36096082.21	36096082.36	36096082.56	0.0088	0.0055
Venus	94116-03-26 10:05 G	36096307.74	36096307.92	36096308.12	0.0088	0.0043
Venus	94116-11-06 23:17 G	36096533.28	36096533.47	36096533.69	0.0088	0.0033
Venus	94117-06-20 12:29 G	36096758.82	36096759.02	36096759.25	0.0088	0.0022
Venus	94118-02-01 01:55 G	36096984.36	36096984.58	36096984.80	0.0088	0.0012
Venus	94118-09-14 14:53 G	36097209.90	36097210.12	36097210.35	0.0088	0.0002
Venus	94119-04-28 04:05 G	36097435.45	36097435.67	36097435.89	0.0088	0.0010
Venus	94119-12-09 17:17 G	36097661.01	36097661.22	36097661.45	0.0088	0.0021
Moon	94120-02-18 14:09 G	36097732.06	36097732.09	36097732.19	0.0088	0.0086
Venus	94120-07-22 06:14 G	36097886.57	36097886.76	36097886.98	0.0088	0.0032
Earth	94121-02-20 06:43 G	36098099.65	36098099.78	36098099.95	0.0088	0.0072
Moon	94121-02-20 10:05 G	36098099.82	36098099.92	36098100.08	0.0088	0.0076 *
Venus	94121-03-04 19:41 G	36098112.13	36098112.32	36098112.52	0.0088	0.0042

Venus	94121-10-16 08:24 G	36098337.69	36098337.85	36098338.05	0.0088	0.0053
Moon	94122-02-22 16:05 G	36098466.97	36098467.17	36098467.40	0.0088	0.0049
Earth	94122-02-22 19:26 G	36098467.12	36098467.31	36098467.54	0.0088	0.0054 *
Venus	94122-05-29 21:50 G	36098563.26	36098563.41	36098563.57	0.0088	0.0063
Venus	94123-01-10 10:33 G	36098788.84	36098788.94	36098789.09	0.0088	0.0074
Earth	94123-02-25 08:09 G	36098834.61	36098834.84	36098835.09	0.0088	0.0035
Moon	94123-02-25 10:19 G	36098834.71	36098834.93	36098835.19	0.0088	0.0040 *
Venus	94123-08-24 00:00 G	36099014.44	36099014.50	36099014.58	0.0088	0.0084
Moon	94124-02-27 18:57 G	36099202.05	36099202.29	36099202.55	0.0088	0.0013
Earth	94124-02-27 20:38 G	36099202.11	36099202.36	36099202.62	0.0088	0.0017 *
Earth	94125-03-01 09:07 G	36099569.63	36099569.88	36099570.15	0.0088	0.0003
Moon	94125-03-01 09:50 G	36099569.64	36099569.91	36099570.18	0.0088	0.0003 *
Earth	94126-03-03 21:36 G	36099937.15	36099937.40	36099937.66	0.0089	0.0020
Moon	94126-03-03 22:48 G	36099937.21	36099937.45	36099937.70	0.0089	0.0025 *
Moon	94127-03-06 07:55 G	36100304.60	36100304.83	36100305.10	0.0089	0.0035
Earth	94127-03-06 10:05 G	36100304.69	36100304.92	36100305.16	0.0089	0.0039 *
Earth	94128-03-07 22:19 G	36100672.24	36100672.43	36100672.64	0.0089	0.0057
Moon	94128-03-08 01:12 G	36100672.38	36100672.55	36100672.74	0.0089	0.0062 *
Moon	94129-03-10 06:57 G	36101039.66	36101039.79	36101039.98	0.0089	0.0071
Earth	94129-03-10 10:33 G	36101039.83	36101039.94	36101040.10	0.0089	0.0076 *
Mars	94158-02-25 00:43 G	36111618.44	36111618.53	36111618.68	0.0090	0.0082
Mars	94160-01-19 15:21 G	36112311.87	36112312.14	36112312.42	0.0090	0.0025
Mercury	94161-12-31 00:14 G	36113023.44	36113023.51	36113023.61	0.0090	0.0080
Mercury	94162-03-29 03:50 G	36113111.56	36113111.66	36113111.81	0.0090	0.0069
Mercury	94162-06-25 07:41 G	36113199.69	36113199.82	36113199.98	0.0090	0.0058
Mercury	94162-09-21 11:31 G	36113287.82	36113287.98	36113288.16	0.0090	0.0047
Mercury	94162-12-18 15:07 G	36113375.96	36113376.13	36113376.32	0.0090	0.0036
Mercury	94163-03-16 18:57 G	36113464.11	36113464.29	36113464.48	0.0090	0.0025
Mercury	94163-06-12 22:33 G	36113552.26	36113552.44	36113552.64	0.0090	0.0014
Mercury	94163-09-09 02:24 G	36113640.41	36113640.60	36113640.80	0.0090	0.0003

Mercury	94163-12-06 06:00 G	36113728.56	36113728.75	36113728.95	0.0090	0.0009
Mercury	94164-03-03 09:36 G	36113816.72	36113816.90	36113817.10	0.0090	0.0019
Mercury	94164-05-30 13:26 G	36113904.88	36113905.06	36113905.24	0.0090	0.0030
Mercury	94164-08-26 17:02 G	36113993.04	36113993.21	36113993.38	0.0090	0.0041
Mercury	94164-11-22 20:24 G	36114081.20	36114081.35	36114081.52	0.0090	0.0052
Mercury	94165-02-19 00:00 G	36114169.38	36114169.50	36114169.65	0.0090	0.0063
Mercury	94165-05-18 03:21 G	36114257.55	36114257.64	36114257.77	0.0090	0.0074
Mercury	94165-08-14 06:57 G	36114345.75	36114345.79	36114345.88	0.0090	0.0085
Venus	94195-04-09 21:21 G	36125176.31	36125176.39	36125176.49	0.0089	0.0081
Venus	94195-11-21 10:05 G	36125401.80	36125401.92	36125402.07	0.0089	0.0070
Venus	94196-07-03 23:02 G	36125627.31	36125627.46	36125627.64	0.0089	0.0060
Venus	94197-02-14 12:00 G	36125852.83	36125853.00	36125853.19	0.0089	0.0049
Venus	94197-09-28 00:43 G	36126078.35	36126078.53	36126078.74	0.0089	0.0038
Venus	94198-05-11 13:55 G	36126303.88	36126304.08	36126304.29	0.0089	0.0027
Venus	94198-12-23 02:53 G	36126529.41	36126529.62	36126529.84	0.0089	0.0016
Venus	94199-08-05 15:36 G	36126754.94	36126755.15	36126755.37	0.0089	0.0006
Venus	94200-03-19 04:33 G	36126980.47	36126980.69	36126980.91	0.0089	0.0005
Venus	94200-10-30 17:17 G	36127206.01	36127206.22	36127206.44	0.0089	0.0016
Venus	94201-06-13 06:00 G	36127431.56	36127431.75	36127431.97	0.0089	0.0027
Moon	94201-08-19 10:33 G	36127498.87	36127498.94	36127499.06	0.0089	0.0083
Earth	94201-08-19 13:41 G	36127498.99	36127499.07	36127499.22	0.0089	0.0081 *
Venus	94202-01-24 18:57 G	36127657.10	36127657.29	36127657.50	0.0089	0.0038
Earth	94202-08-22 00:29 G	36127866.37	36127866.52	36127866.73	0.0089	0.0063
Moon	94202-08-22 04:33 G	36127866.51	36127866.69	36127866.90	0.0089	0.0058 *
Venus	94202-09-07 07:41 G	36127882.65	36127882.82	36127883.02	0.0089	0.0048
Venus	94203-04-20 20:24 G	36128108.21	36128108.35	36128108.53	0.0089	0.0059
Moon	94203-08-24 08:53 G	36128233.67	36128233.87	36128234.09	0.0089	0.0046
Earth	94203-08-24 12:00 G	36128233.78	36128234.00	36128234.22	0.0089	0.0043 *
Venus	94203-12-02 09:36 G	36128333.77	36128333.90	36128334.04	0.0089	0.0069
Venus	94204-07-14 22:19 G	36128559.35	36128559.43	36128559.54	0.0089	0.0080

Earth	94204-08-25 22:33 G	36128601.20	36128601.44	36128601.69	0.0089	0.0025
Moon	94204-08-26 00:57 G	36128601.29	36128601.54	36128601.80	0.0089	0.0022 *
Moon	94205-08-28 08:09 G	36128968.59	36128968.84	36128969.08	0.0089	0.0010
Earth	94205-08-28 09:21 G	36128968.64	36128968.89	36128969.15	0.0089	0.0007 *
Moon	94206-08-30 19:41 G	36129336.07	36129336.32	36129336.59	0.0089	0.0014
Earth	94206-08-30 20:09 G	36129336.09	36129336.34	36129336.60	0.0089	0.0011 *
Earth	94207-09-02 06:43 G	36129703.55	36129703.78	36129704.04	0.0089	0.0030
Moon	94207-09-02 08:09 G	36129703.61	36129703.84	36129704.08	0.0089	0.0027 *
Moon	94208-09-03 15:36 G	36130070.94	36130071.15	36130071.37	0.0089	0.0051
Earth	94208-09-03 17:45 G	36130071.04	36130071.24	36130071.47	0.0089	0.0048 *
Earth	94209-09-06 04:33 G	36130438.53	36130438.69	36130438.87	0.0089	0.0066
Moon	94209-09-06 07:55 G	36130438.67	36130438.83	36130439.02	0.0089	0.0063 *
Moon	94210-09-08 12:29 G	36130805.98	36130806.02	36130806.07	0.0089	0.0087
Earth	94210-09-08 15:36 G	36130806.08	36130806.15	36130806.24	0.0089	0.0084
Mars	94239-12-02 05:17 G	36141482.65	36141482.72	36141482.86	0.0088	0.0084
Mars	94241-10-28 14:09 G	36142178.81	36142179.09	36142179.43	0.0088	0.0039
Mercury	94242-10-17 16:05 G	36142533.15	36142533.17	36142533.21	0.0088	0.0085
Mercury	94243-01-13 17:17 G	36142621.17	36142621.22	36142621.29	0.0088	0.0078
Mercury	94243-04-11 18:29 G	36142709.21	36142709.27	36142709.36	0.0088	0.0071
Mercury	94243-07-08 19:55 G	36142797.25	36142797.33	36142797.43	0.0088	0.0064
Mercury	94243-10-04 21:07 G	36142885.29	36142885.38	36142885.49	0.0088	0.0057
Mercury	94243-12-31 22:33 G	36142973.33	36142973.44	36142973.55	0.0088	0.0050
Mercury	94244-03-28 23:45 G	36143061.38	36143061.49	36143061.61	0.0088	0.0043
Mercury	94244-06-25 00:57 G	36143149.43	36143149.54	36143149.67	0.0088	0.0036
Mercury	94244-09-21 02:24 G	36143237.48	36143237.60	36143237.73	0.0088	0.0029
Mercury	94244-12-18 03:36 G	36143325.53	36143325.65	36143325.78	0.0088	0.0022
Mercury	94245-03-16 05:02 G	36143413.58	36143413.71	36143413.84	0.0088	0.0015
Mercury	94245-06-12 06:14 G	36143501.63	36143501.76	36143501.90	0.0088	0.0008
Mercury	94245-09-08 07:41 G	36143589.68	36143589.82	36143589.95	0.0088	0.0002
Mercury	94245-12-05 08:53 G	36143677.74	36143677.87	36143678.00	0.0088	0.0007

Mercury	94246-03-03 10:05 G	36143765.79	36143765.92	36143766.06	0.0088	0.0014
Mercury	94246-05-30 11:31 G	36143853.85	36143853.98	36143854.11	0.0088	0.0021
Mercury	94246-08-26 12:43 G	36143941.91	36143942.03	36143942.16	0.0088	0.0028
Mercury	94246-11-22 14:09 G	36144029.96	36144030.09	36144030.21	0.0088	0.0035
Mercury	94247-02-18 15:07 G	36144118.02	36144118.13	36144118.26	0.0088	0.0043
Mercury	94247-05-17 16:33 G	36144206.09	36144206.19	36144206.30	0.0088	0.0049
Mercury	94247-08-13 17:45 G	36144294.15	36144294.24	36144294.35	0.0088	0.0057
Mercury	94247-11-09 19:12 G	36144382.21	36144382.30	36144382.39	0.0088	0.0064
Mercury	94248-02-05 20:24 G	36144470.28	36144470.35	36144470.44	0.0088	0.0071
Mercury	94248-05-03 21:50 G	36144558.35	36144558.41	36144558.47	0.0088	0.0078
Mercury	94248-07-30 23:02 G	36144646.44	36144646.46	36144646.50	0.0088	0.0085
Venus	94278-08-22 04:48 G	36155625.62	36155625.70	36155625.83	0.0088	0.0078
Venus	94279-04-04 18:14 G	36155851.13	36155851.26	36155851.41	0.0088	0.0067
Venus	94279-11-16 07:12 G	36156076.66	36156076.80	36156076.99	0.0088	0.0058
Venus	94280-06-28 20:38 G	36156302.19	36156302.36	36156302.56	0.0088	0.0047
Venus	94281-02-09 10:05 G	36156527.72	36156527.92	36156528.12	0.0088	0.0036
Venus	94281-09-22 23:02 G	36156753.25	36156753.46	36156753.68	0.0088	0.0025
Venus	94282-05-06 12:14 G	36156978.80	36156979.01	36156979.24	0.0088	0.0015
Venus	94282-12-18 01:41 G	36157204.35	36157204.57	36157204.79	0.0088	0.0004
Venus	94283-07-31 14:53 G	36157429.90	36157430.12	36157430.34	0.0088	0.0007
Venus	94284-03-13 03:50 G	36157655.45	36157655.66	36157655.88	0.0088	0.0018
Venus	94284-10-24 17:02 G	36157881.01	36157881.21	36157881.43	0.0088	0.0028
Moon	94285-02-20 12:29 G	36157999.92	36158000.02	36158000.16	0.0088	0.0078
Earth	94285-02-20 15:50 G	36158000.03	36158000.16	36158000.29	0.0088	0.0076 *
Venus	94285-06-07 06:29 G	36158106.57	36158106.77	36158106.96	0.0088	0.0039
Venus	94286-01-18 19:12 G	36158332.13	36158332.30	36158332.50	0.0088	0.0050
Earth	94286-02-23 04:05 G	36158367.48	36158367.67	36158367.88	0.0088	0.0058
Moon	94286-02-23 06:14 G	36158367.58	36158367.76	36158367.99	0.0088	0.0057 *
Venus	94286-09-01 08:09 G	36158557.70	36158557.84	36158558.03	0.0088	0.0061
Moon	94287-02-25 16:05 G	36158734.96	36158735.17	36158735.40	0.0088	0.0041

Earth	94287-02-25 16:33 G	36158734.98	36158735.19	36158735.44	0.0088	0.0040	*
Venus	94287-04-14 21:36 G	36158783.28	36158783.40	36158783.54	0.0088	0.0071	
Venus	94287-11-26 10:33 G	36159008.88	36159008.94	36159009.05	0.0088	0.0081	
Moon	94288-02-28 05:02 G	36159102.46	36159102.71	36159102.99	0.0088	0.0020	
Earth	94288-02-28 05:17 G	36159102.48	36159102.72	36159102.99	0.0088	0.0021	*
Earth	94289-03-01 18:14 G	36159470.00	36159470.26	36159470.52	0.0088	0.0003	
Moon	94289-03-01 19:26 G	36159470.06	36159470.31	36159470.56	0.0088	0.0003	*
Moon	94290-03-04 03:50 G	36159837.41	36159837.66	36159837.93	0.0088	0.0018	
Earth	94290-03-04 06:43 G	36159837.53	36159837.78	36159838.05	0.0088	0.0016	*
Earth	94291-03-06 18:57 G	36160205.06	36160205.29	36160205.54	0.0089	0.0035	
Moon	94291-03-06 22:19 G	36160205.19	36160205.43	36160205.67	0.0089	0.0034	*
Moon	94292-03-08 03:50 G	36160572.46	36160572.66	36160572.88	0.0089	0.0053	
Earth	94292-03-08 07:26 G	36160572.62	36160572.81	36160573.04	0.0089	0.0053	*
Earth	94293-03-10 19:55 G	36160940.19	36160940.33	36160940.50	0.0089	0.0071	
Moon	94293-03-10 23:17 G	36160940.34	36160940.47	36160940.65	0.0089	0.0071	*
Jupiter	94298-11-15 02:09 G	36163015.11	36163015.59	36163016.09	0.0089	0.0042	
Mars	94323-09-06 06:57 G	36172075.52	36172075.79	36172076.09	0.0090	0.0014	
Mercury	94326-07-02 19:26 G	36173106.26	36173106.31	36173106.38	0.0090	0.0085	
Mercury	94326-09-28 23:02 G	36173194.36	36173194.46	36173194.58	0.0090	0.0074	
Mercury	94326-12-26 02:53 G	36173282.49	36173282.62	36173282.77	0.0090	0.0063	
Mercury	94327-03-24 06:29 G	36173370.62	36173370.77	36173370.94	0.0090	0.0052	
Mercury	94327-06-20 10:19 G	36173458.76	36173458.93	36173459.11	0.0090	0.0041	
Mercury	94327-09-16 14:09 G	36173546.91	36173547.09	36173547.27	0.0090	0.0030	
Mercury	94327-12-13 17:45 G	36173635.06	36173635.24	36173635.44	0.0090	0.0019	
Mercury	94328-03-10 21:36 G	36173723.21	36173723.40	36173723.59	0.0090	0.0008	
Mercury	94328-06-07 01:12 G	36173811.36	36173811.55	36173811.75	0.0090	0.0003	
Mercury	94328-09-03 04:48 G	36173899.51	36173899.70	36173899.90	0.0090	0.0014	
Mercury	94328-11-30 08:38 G	36173987.67	36173987.86	36173988.04	0.0090	0.0025	
Mercury	94329-02-26 12:14 G	36174075.83	36174076.01	36174076.19	0.0090	0.0036	
Mercury	94329-05-25 15:36 G	36174164.00	36174164.15	36174164.33	0.0090	0.0047	

Mercury	94329-08-21 19:12 G	36174252.17	36174252.30	36174252.46	0.0090	0.0058
Mercury	94329-11-17 22:48 G	36174340.34	36174340.45	36174340.59	0.0090	0.0069
Mercury	94330-02-14 02:09 G	36174428.53	36174428.59	36174428.70	0.0090	0.0080
Venus	94359-07-14 08:38 G	36185170.80	36185170.86	36185170.95	0.0089	0.0083
Venus	94360-02-24 21:36 G	36185396.28	36185396.40	36185396.53	0.0089	0.0073
Venus	94360-10-07 10:05 G	36185621.78	36185621.92	36185622.09	0.0089	0.0062
Venus	94361-05-20 23:17 G	36185847.30	36185847.47	36185847.66	0.0089	0.0051
Venus	94362-01-01 12:14 G	36186072.82	36186073.01	36186073.21	0.0089	0.0041
Venus	94362-08-15 00:57 G	36186298.35	36186298.54	36186298.76	0.0089	0.0030
Venus	94363-03-28 13:55 G	36186523.87	36186524.08	36186524.30	0.0089	0.0019
Venus	94363-11-09 02:53 G	36186749.40	36186749.62	36186749.84	0.0089	0.0008
Venus	94364-06-21 15:50 G	36186974.94	36186975.16	36186975.38	0.0089	0.0003
Venus	94365-02-02 04:33 G	36187200.48	36187200.69	36187200.91	0.0089	0.0014
Earth	94365-08-20 00:43 G	36187399.47	36187399.53	36187399.63	0.0089	0.0084
Moon	94365-08-20 04:05 G	36187399.66	36187399.67	36187399.72	0.0089	0.0088
Venus	94365-09-15 17:17 G	36187426.02	36187426.22	36187426.44	0.0089	0.0024
Venus	94366-04-29 06:14 G	36187651.57	36187651.76	36187651.97	0.0089	0.0035
Moon	94366-08-22 08:38 G	36187766.70	36187766.86	36187767.06	0.0089	0.0063
Earth	94366-08-22 11:31 G	36187766.84	36187766.98	36187767.18	0.0089	0.0067 *
Venus	94366-12-10 19:12 G	36187877.12	36187877.30	36187877.49	0.0089	0.0045
Venus	94367-07-24 07:55 G	36188102.68	36188102.83	36188103.01	0.0089	0.0056
Earth	94367-08-24 22:19 G	36188134.24	36188134.43	36188134.67	0.0089	0.0048
Moon	94367-08-25 00:14 G	36188134.32	36188134.51	36188134.74	0.0089	0.0052 *
Venus	94368-03-05 20:38 G	36188328.24	36188328.36	36188328.52	0.0089	0.0067
Moon	94368-08-26 08:53 G	36188501.64	36188501.87	36188502.11	0.0089	0.0026
Earth	94368-08-26 09:07 G	36188501.66	36188501.88	36188502.14	0.0089	0.0030 *
Venus	94368-10-17 09:50 G	36188553.81	36188553.91	36188554.02	0.0089	0.0077
Venus	94369-05-30 22:19 G	36188779.42	36188779.43	36188779.48	0.0089	0.0088
Moon	94369-08-28 19:55 G	36188869.07	36188869.33	36188869.59	0.0089	0.0015
Earth	94369-08-28 20:09 G	36188869.09	36188869.34	36188869.60	0.0089	0.0011 *

Earth	94370-08-31 06:57 G	36189236.54	36189236.79	36189237.05	0.0089	0.0007
Moon	94370-08-31 08:53 G	36189236.63	36189236.87	36189237.12	0.0089	0.0011 *
Moon	94371-09-02 14:53 G	36189603.87	36189604.12	36189604.38	0.0089	0.0021
Earth	94371-09-02 17:45 G	36189604.00	36189604.24	36189604.49	0.0089	0.0025 *
Earth	94372-09-04 04:19 G	36189971.46	36189971.68	36189971.91	0.0089	0.0043
Moon	94372-09-04 07:26 G	36189971.61	36189971.81	36189972.03	0.0089	0.0047 *
Moon	94373-09-06 11:31 G	36190338.79	36190338.98	36190339.18	0.0089	0.0057
Earth	94373-09-06 14:53 G	36190338.96	36190339.12	36190339.32	0.0089	0.0062 *
Earth	94374-09-09 01:26 G	36190706.48	36190706.56	36190706.70	0.0089	0.0080
Moon	94374-09-09 05:17 G	36190706.64	36190706.72	36190706.81	0.0089	0.0083 *
Mars	94405-06-12 00:57 G	36201940.20	36201940.54	36201940.89	0.0088	0.0005
Mercury	94407-07-15 16:05 G	36202704.13	36202704.17	36202704.22	0.0088	0.0081
Mercury	94407-10-11 17:17 G	36202792.16	36202792.22	36202792.30	0.0088	0.0074
Mercury	94408-01-07 18:29 G	36202880.20	36202880.27	36202880.36	0.0088	0.0067
Mercury	94408-04-04 19:55 G	36202968.24	36202968.33	36202968.43	0.0088	0.0060
Mercury	94408-07-01 21:07 G	36203056.28	36203056.38	36203056.49	0.0088	0.0053
Mercury	94408-09-27 22:33 G	36203144.33	36203144.44	36203144.55	0.0088	0.0046
Mercury	94408-12-24 23:45 G	36203232.37	36203232.49	36203232.61	0.0088	0.0039
Mercury	94409-03-23 00:57 G	36203320.42	36203320.54	36203320.67	0.0088	0.0032
Mercury	94409-06-19 02:24 G	36203408.47	36203408.60	36203408.72	0.0088	0.0025
Mercury	94409-09-15 03:36 G	36203496.52	36203496.65	36203496.78	0.0088	0.0018
Mercury	94409-12-12 04:48 G	36203584.57	36203584.70	36203584.84	0.0088	0.0011
Mercury	94410-03-10 06:14 G	36203672.62	36203672.76	36203672.89	0.0088	0.0004
Mercury	94410-06-06 07:26 G	36203760.68	36203760.81	36203760.94	0.0088	0.0003
Mercury	94410-09-02 08:38 G	36203848.73	36203848.86	36203849.00	0.0088	0.0010
Mercury	94410-11-29 09:50 G	36203936.79	36203936.91	36203937.05	0.0088	0.0018
Mercury	94411-02-25 11:17 G	36204024.84	36204024.97	36204025.10	0.0088	0.0024
Mercury	94411-05-24 12:29 G	36204112.90	36204113.02	36204113.15	0.0088	0.0032
Mercury	94411-08-20 13:41 G	36204200.96	36204201.07	36204201.20	0.0088	0.0039
Mercury	94411-11-16 15:07 G	36204289.02	36204289.13	36204289.25	0.0088	0.0046



Mercury	94412-02-12 16:19 G	36204377.08	36204377.18	36204377.29	0.0088	0.0053
Mercury	94412-05-10 17:31 G	36204465.14	36204465.23	36204465.34	0.0088	0.0060
Mercury	94412-08-06 18:57 G	36204553.21	36204553.29	36204553.38	0.0088	0.0067
Mercury	94412-11-02 20:24 G	36204641.28	36204641.35	36204641.42	0.0088	0.0074
Mercury	94413-01-29 21:21 G	36204729.36	36204729.39	36204729.45	0.0088	0.0082
Venus	94442-11-24 16:05 G	36215620.10	36215620.17	36215620.27	0.0088	0.0081
Venus	94443-07-08 05:02 G	36215845.60	36215845.71	36215845.87	0.0088	0.0071
Venus	94444-02-18 18:29 G	36216071.12	36216071.27	36216071.45	0.0088	0.0060
Venus	94444-10-01 07:26 G	36216296.64	36216296.81	36216297.01	0.0088	0.0049
Venus	94445-05-14 20:53 G	36216522.18	36216522.37	36216522.58	0.0088	0.0038
Venus	94445-12-26 10:05 G	36216747.72	36216747.92	36216748.14	0.0088	0.0028
Venus	94446-08-08 23:17 G	36216973.26	36216973.47	36216973.70	0.0088	0.0017
Venus	94447-03-22 12:29 G	36217198.80	36217199.02	36217199.25	0.0088	0.0007
Venus	94447-11-03 01:41 G	36217424.35	36217424.57	36217424.80	0.0088	0.0004
Venus	94448-06-15 14:38 G	36217649.90	36217650.11	36217650.34	0.0088	0.0015
Venus	94449-01-27 03:50 G	36217875.46	36217875.66	36217875.88	0.0088	0.0026
Earth	94449-02-21 00:00 G	36217900.42	36217900.50	36217900.63	0.0088	0.0080
Moon	94449-02-21 01:12 G	36217900.44	36217900.55	36217900.71	0.0088	0.0076 *
Venus	94449-09-09 16:48 G	36218101.01	36218101.20	36218101.42	0.0088	0.0037
Moon	94450-02-23 12:00 G	36218267.86	36218268.00	36218268.19	0.0088	0.0067
Earth	94450-02-23 12:29 G	36218267.86	36218268.02	36218268.23	0.0088	0.0063 *
Venus	94450-04-23 06:14 G	36218326.58	36218326.76	36218326.95	0.0088	0.0047
Venus	94450-12-04 19:12 G	36218552.15	36218552.30	36218552.49	0.0088	0.0058
Moon	94451-02-26 00:14 G	36218635.28	36218635.51	36218635.77	0.0088	0.0039
Earth	94451-02-26 01:26 G	36218635.34	36218635.56	36218635.80	0.0088	0.0044 *
Venus	94451-07-18 08:38 G	36218777.73	36218777.86	36218778.01	0.0088	0.0068
Earth	94452-02-28 14:09 G	36219002.85	36219003.09	36219003.35	0.0088	0.0025
Moon	94452-02-28 16:19 G	36219002.95	36219003.18	36219003.43	0.0088	0.0029 *
Venus	94452-02-28 21:21 G	36219003.31	36219003.39	36219003.51	0.0088	0.0079 *
Moon	94453-03-02 00:14 G	36219370.25	36219370.51	36219370.78	0.0088	0.0003

Earth	94453-03-02 02:53 G	36219370.37	36219370.62	36219370.89	0.0088	0.0008	*
Earth	94454-03-04 15:21 G	36219737.89	36219738.14	36219738.41	0.0088	0.0012	
Moon	94454-03-04 19:12 G	36219738.04	36219738.30	36219738.56	0.0088	0.0007	*
Moon	94455-03-07 00:29 G	36220105.29	36220105.52	36220105.77	0.0088	0.0035	
Earth	94455-03-07 04:19 G	36220105.43	36220105.68	36220105.92	0.0088	0.0030	*
Earth	94456-03-08 16:19 G	36220472.98	36220473.18	36220473.42	0.0089	0.0049	
Moon	94456-03-08 19:55 G	36220473.12	36220473.33	36220473.57	0.0089	0.0044	*
Moon	94457-03-11 02:24 G	36220840.47	36220840.60	36220840.76	0.0089	0.0072	
Earth	94457-03-11 05:02 G	36220840.55	36220840.71	36220840.89	0.0089	0.0067	*
Earth	94458-03-13 17:31 G	36221208.17	36221208.23	36221208.31	0.0089	0.0085	
Moon	94458-03-13 18:43 G	36221208.20	36221208.28	36221208.42	0.0089	0.0081	*
Mars	94487-04-22 00:14 G	36231839.29	36231839.51	36231839.76	0.0090	0.0052	
Mars	94489-03-15 13:41 G	36232532.85	36232533.07	36232533.30	0.0090	0.0054	
Mercury	94491-03-29 17:45 G	36233277.17	36233277.24	36233277.35	0.0090	0.0080	
Mercury	94491-06-25 21:36 G	36233365.29	36233365.40	36233365.54	0.0090	0.0069	
Mercury	94491-09-22 01:26 G	36233453.42	36233453.56	36233453.72	0.0090	0.0058	
Mercury	94491-12-19 05:02 G	36233541.56	36233541.71	36233541.89	0.0090	0.0047	
Mercury	94492-03-16 08:53 G	36233629.70	36233629.87	36233630.06	0.0090	0.0036	
Mercury	94492-06-12 12:43 G	36233717.85	36233718.03	36233718.22	0.0090	0.0024	
Mercury	94492-09-08 16:19 G	36233806.00	36233806.18	36233806.38	0.0090	0.0014	
Mercury	94492-12-05 20:09 G	36233894.15	36233894.34	36233894.54	0.0090	0.0003	
Mercury	94493-03-04 00:00 G	36233982.30	36233982.50	36233982.69	0.0090	0.0009	
Mercury	94493-05-31 03:36 G	36234070.46	36234070.65	36234070.84	0.0090	0.0020	
Mercury	94493-08-27 07:12 G	36234158.62	36234158.80	36234158.99	0.0090	0.0031	
Mercury	94493-11-23 10:48 G	36234246.79	36234246.95	36234247.13	0.0090	0.0042	
Mercury	94494-02-19 14:09 G	36234334.95	36234335.09	36234335.27	0.0090	0.0053	
Mercury	94494-05-18 17:45 G	36234423.13	36234423.24	36234423.40	0.0090	0.0064	
Mercury	94494-08-14 21:50 G	36234511.31	36234511.41	36234511.52	0.0090	0.0074	
Mercury	94494-11-11 01:12 G	36234599.51	36234599.55	36234599.62	0.0090	0.0085	
Venus	94523-10-16 19:41 G	36245165.29	36245165.32	36245165.40	0.0089	0.0087	

Venus	94524-05-29 08:53 G	36245390.77	36245390.87	36245391.00	0.0089	0.0076
Venus	94525-01-09 21:21 G	36245616.27	36245616.39	36245616.56	0.0089	0.0066
Venus	94525-08-23 10:19 G	36245841.77	36245841.93	36245842.12	0.0089	0.0055
Venus	94526-04-05 23:17 G	36246067.29	36246067.47	36246067.67	0.0089	0.0044
Venus	94526-11-17 12:00 G	36246292.81	36246293.00	36246293.22	0.0089	0.0033
Venus	94527-07-01 00:57 G	36246518.34	36246518.54	36246518.76	0.0089	0.0022
Venus	94528-02-11 13:55 G	36246743.87	36246744.08	36246744.30	0.0089	0.0012
Venus	94528-09-24 02:53 G	36246969.40	36246969.62	36246969.84	0.0089	0.0001
Venus	94529-05-07 15:50 G	36247194.95	36247195.16	36247195.38	0.0089	0.0010
Moon	94529-08-20 09:36 G	36247299.86	36247299.90	36247299.95	0.0089	0.0088
Earth	94529-08-20 11:31 G	36247299.97	36247299.98	36247300.02	0.0089	0.0089
Venus	94529-12-19 04:33 G	36247420.49	36247420.69	36247420.91	0.0089	0.0022
Venus	94530-08-01 17:31 G	36247646.03	36247646.23	36247646.44	0.0089	0.0032
Earth	94530-08-22 22:19 G	36247667.29	36247667.43	36247667.60	0.0089	0.0071
Moon	94530-08-23 00:00 G	36247667.37	36247667.50	36247667.67	0.0089	0.0072 *
Venus	94531-03-15 06:14 G	36247871.58	36247871.76	36247871.96	0.0089	0.0043
Earth	94531-08-25 09:21 G	36248034.70	36248034.89	36248035.11	0.0089	0.0052
Moon	94531-08-25 09:36 G	36248034.70	36248034.90	36248035.10	0.0089	0.0050 *
Venus	94531-10-26 19:12 G	36248097.13	36248097.30	36248097.48	0.0089	0.0053
Venus	94532-06-08 08:09 G	36248322.70	36248322.84	36248323.00	0.0089	0.0064
Moon	94532-08-26 18:29 G	36248402.05	36248402.27	36248402.53	0.0089	0.0035
Earth	94532-08-26 20:09 G	36248402.12	36248402.34	36248402.59	0.0089	0.0034 *
Venus	94533-01-19 20:38 G	36248548.27	36248548.36	36248548.51	0.0089	0.0075
Earth	94533-08-29 06:57 G	36248769.55	36248769.79	36248770.05	0.0089	0.0016
Moon	94533-08-29 08:53 G	36248769.64	36248769.87	36248770.13	0.0089	0.0014 *
Venus	94533-09-02 09:50 G	36248773.86	36248773.91	36248773.98	0.0089	0.0085
Moon	94534-08-31 14:53 G	36249136.86	36249137.12	36249137.38	0.0089	0.0001
Earth	94534-08-31 18:00 G	36249137.00	36249137.25	36249137.51	0.0089	0.0003 *
Earth	94535-09-03 04:33 G	36249504.45	36249504.69	36249504.94	0.0089	0.0021
Moon	94535-09-03 07:55 G	36249504.59	36249504.83	36249505.09	0.0089	0.0023 *

Moon	94536-09-04 11:31 G	36249871.77	36249871.98	36249872.23	0.0089	0.0037
Earth	94536-09-04 15:21 G	36249871.92	36249872.14	36249872.38	0.0089	0.0039 *
Earth	94537-09-07 01:55 G	36250239.40	36250239.58	36250239.78	0.0089	0.0057
Moon	94537-09-07 04:48 G	36250239.53	36250239.70	36250239.92	0.0089	0.0060 *
Moon	94538-09-09 10:33 G	36250606.83	36250606.94	36250607.10	0.0089	0.0074
Earth	94538-09-09 12:14 G	36250606.91	36250607.01	36250607.18	0.0089	0.0076 *
Mars	94569-01-24 11:02 G	36261701.69	36261701.96	36261702.27	0.0088	0.0048
Mars	94570-12-21 19:12 G	36262398.16	36262398.30	36262398.52	0.0088	0.0075
Mercury	94572-01-14 14:38 G	36262787.08	36262787.11	36262787.15	0.0088	0.0084
Mercury	94572-04-11 16:05 G	36262875.11	36262875.17	36262875.23	0.0088	0.0077
Mercury	94572-07-08 17:17 G	36262963.15	36262963.22	36262963.30	0.0088	0.0070
Mercury	94572-10-04 18:14 G	36263051.19	36263051.26	36263051.37	0.0088	0.0064
Mercury	94572-12-31 19:55 G	36263139.23	36263139.33	36263139.43	0.0088	0.0056
Mercury	94573-03-29 20:53 G	36263227.27	36263227.37	36263227.49	0.0088	0.0050
Mercury	94573-06-25 22:19 G	36263315.32	36263315.43	36263315.55	0.0088	0.0042
Mercury	94573-09-21 23:31 G	36263403.37	36263403.48	36263403.61	0.0088	0.0036
Mercury	94573-12-19 00:43 G	36263491.42	36263491.53	36263491.67	0.0088	0.0029
Mercury	94574-03-17 02:09 G	36263579.47	36263579.59	36263579.72	0.0088	0.0021
Mercury	94574-06-13 03:21 G	36263667.52	36263667.64	36263667.78	0.0088	0.0015
Mercury	94574-09-09 04:48 G	36263755.57	36263755.70	36263755.83	0.0088	0.0007
Mercury	94574-12-06 06:00 G	36263843.62	36263843.75	36263843.89	0.0088	0.0002
Mercury	94575-03-04 07:26 G	36263931.67	36263931.81	36263931.94	0.0088	0.0007
Mercury	94575-05-31 08:38 G	36264019.73	36264019.86	36264019.99	0.0088	0.0014
Mercury	94575-08-27 09:50 G	36264107.78	36264107.91	36264108.04	0.0088	0.0021
Mercury	94575-11-23 11:17 G	36264195.84	36264195.97	36264196.09	0.0088	0.0028
Mercury	94576-02-19 12:29 G	36264283.90	36264284.02	36264284.14	0.0088	0.0035
Mercury	94576-05-17 13:26 G	36264371.96	36264372.06	36264372.19	0.0088	0.0043
Mercury	94576-08-13 14:53 G	36264460.02	36264460.12	36264460.24	0.0088	0.0050
Mercury	94576-11-09 16:05 G	36264548.08	36264548.17	36264548.28	0.0088	0.0057
Mercury	94577-02-05 17:17 G	36264636.14	36264636.22	36264636.33	0.0088	0.0064

Mercury	94577-05-04 18:43 G	36264724.21	36264724.28	36264724.37	0.0088	0.0071
Mercury	94577-07-31 20:09 G	36264812.28	36264812.34	36264812.40	0.0088	0.0078
Mercury	94577-10-27 21:21 G	36264900.37	36264900.39	36264900.43	0.0088	0.0085
Venus	94607-02-28 02:38 G	36275614.56	36275614.61	36275614.71	0.0088	0.0083
Venus	94607-10-11 16:19 G	36275840.06	36275840.18	36275840.31	0.0088	0.0073
Venus	94608-05-24 05:17 G	36276065.58	36276065.72	36276065.90	0.0088	0.0062
Venus	94609-01-04 18:57 G	36276291.11	36276291.29	36276291.47	0.0088	0.0051
Venus	94609-08-18 07:55 G	36276516.65	36276516.83	36276517.04	0.0088	0.0041
Venus	94610-03-31 21:07 G	36276742.18	36276742.38	36276742.60	0.0088	0.0031
Venus	94610-11-12 10:19 G	36276967.73	36276967.93	36276968.16	0.0088	0.0020
Venus	94611-06-25 23:45 G	36277193.27	36277193.49	36277193.72	0.0088	0.0009
Venus	94612-02-06 12:57 G	36277418.82	36277419.04	36277419.26	0.0088	0.0002
Venus	94612-09-19 01:55 G	36277644.37	36277644.58	36277644.81	0.0088	0.0013
Earth	94613-02-22 09:21 G	36277800.84	36277800.89	36277800.99	0.0088	0.0085
Moon	94613-02-22 10:19 G	36277800.85	36277800.93	36277801.04	0.0088	0.0082 *
Venus	94613-05-02 14:53 G	36277869.92	36277870.12	36277870.35	0.0088	0.0024
Venus	94613-12-14 04:19 G	36278095.48	36278095.68	36278095.89	0.0088	0.0034
Moon	94614-02-24 20:38 G	36278168.21	36278168.36	36278168.55	0.0088	0.0069
Earth	94614-02-24 21:50 G	36278168.27	36278168.41	36278168.61	0.0088	0.0067 *
Venus	94614-07-27 17:17 G	36278321.05	36278321.22	36278321.43	0.0088	0.0045
Earth	94615-02-27 10:33 G	36278535.74	36278535.94	36278536.18	0.0088	0.0048
Moon	94615-02-27 13:26 G	36278535.85	36278536.06	36278536.28	0.0088	0.0046 *
Venus	94615-03-10 06:43 G	36278546.61	36278546.78	36278546.96	0.0088	0.0055
Venus	94615-10-21 19:26 G	36278772.18	36278772.31	36278772.48	0.0088	0.0066
Moon	94616-02-29 20:09 G	36278903.10	36278903.34	36278903.59	0.0088	0.0033
Earth	94616-02-29 23:31 G	36278903.25	36278903.48	36278903.74	0.0088	0.0030 *
Venus	94616-06-03 08:53 G	36278997.77	36278997.87	36278997.99	0.0088	0.0076
Venus	94617-01-14 21:50 G	36279223.39	36279223.41	36279223.47	0.0088	0.0087
Earth	94617-03-03 12:00 G	36279270.75	36279271.00	36279271.27	0.0088	0.0012
Moon	94617-03-03 15:36 G	36279270.90	36279271.15	36279271.41	0.0088	0.0010 *

Moon	94618-03-05 21:21 G	36279638.13	36279638.39	36279638.65	0.0088	0.0005
Earth	94618-03-06 00:57 G	36279638.28	36279638.54	36279638.80	0.0088	0.0007 *
Earth	94619-03-08 13:26 G	36280005.82	36280006.06	36280006.32	0.0088	0.0026
Moon	94619-03-08 16:19 G	36280005.93	36280006.18	36280006.44	0.0088	0.0028 *
Moon	94620-03-09 23:31 G	36280373.28	36280373.48	36280373.72	0.0088	0.0044
Earth	94620-03-10 01:55 G	36280373.37	36280373.58	36280373.83	0.0088	0.0045 *
Earth	94621-03-12 14:24 G	36280740.94	36280741.10	36280741.31	0.0089	0.0063
Moon	94621-03-12 15:50 G	36280740.99	36280741.16	36280741.36	0.0089	0.0064 *
Earth	94622-03-15 03:07 G	36281108.54	36281108.63	36281108.75	0.0089	0.0081
Moon	94622-03-15 03:07 G	36281108.55	36281108.63	36281108.77	0.0089	0.0080 *
Mars	94650-12-07 16:48 G	36291603.18	36291603.20	36291603.24	0.0090	0.0089
Mars	94652-10-31 07:26 G	36292296.54	36292296.81	36292297.10	0.0090	0.0017
Mercury	94655-09-29 12:57 G	36293360.00	36293360.04	36293360.12	0.0090	0.0085
Mercury	94655-12-26 16:48 G	36293448.10	36293448.20	36293448.32	0.0090	0.0074
Mercury	94656-03-23 20:38 G	36293536.23	36293536.36	36293536.51	0.0090	0.0063
Mercury	94656-06-20 00:14 G	36293624.37	36293624.51	36293624.68	0.0090	0.0052
Mercury	94656-09-16 04:05 G	36293712.51	36293712.67	36293712.85	0.0090	0.0041
Mercury	94656-12-13 07:41 G	36293800.65	36293800.82	36293801.02	0.0090	0.0030
Mercury	94657-03-11 11:31 G	36293888.80	36293888.98	36293889.18	0.0090	0.0019
Mercury	94657-06-07 15:21 G	36293976.95	36293977.14	36293977.34	0.0090	0.0008
Mercury	94657-09-03 19:12 G	36294065.10	36294065.30	36294065.49	0.0090	0.0004
Mercury	94657-11-30 22:48 G	36294153.26	36294153.45	36294153.64	0.0090	0.0015
Mercury	94658-02-27 02:24 G	36294241.42	36294241.60	36294241.79	0.0090	0.0026
Mercury	94658-05-26 06:00 G	36294329.58	36294329.75	36294329.94	0.0090	0.0037
Mercury	94658-08-22 09:36 G	36294417.75	36294417.90	36294418.08	0.0090	0.0048
Mercury	94658-11-18 13:12 G	36294505.92	36294506.05	36294506.21	0.0090	0.0059
Mercury	94659-02-14 17:17 G	36294594.10	36294594.22	36294594.34	0.0090	0.0069
Mercury	94659-05-13 20:38 G	36294682.28	36294682.36	36294682.45	0.0090	0.0080
Venus	94688-01-19 08:09 G	36305159.82	36305159.84	36305159.87	0.0089	0.0089
Venus	94688-08-31 20:24 G	36305385.27	36305385.35	36305385.48	0.0089	0.0079

Venus	94689-04-14 09:21 G	36305610.77	36305610.89	36305611.05	0.0089	0.0068
Venus	94689-11-25 22:33 G	36305836.27	36305836.44	36305836.61	0.0089	0.0057
Venus	94690-07-09 11:02 G	36306061.79	36306061.96	36306062.16	0.0089	0.0046
Venus	94691-02-20 00:00 G	36306287.30	36306287.50	36306287.70	0.0089	0.0035
Venus	94691-10-03 12:43 G	36306512.83	36306513.03	36306513.25	0.0089	0.0025
Venus	94692-05-16 01:41 G	36306738.36	36306738.57	36306738.79	0.0089	0.0014
Venus	94692-12-27 14:38 G	36306963.89	36306964.11	36306964.33	0.0089	0.0003
Venus	94693-08-10 03:21 G	36307189.43	36307189.64	36307189.86	0.0089	0.0008
Moon	94693-08-20 22:48 G	36307200.44	36307200.45	36307200.52	0.0089	0.0088
Venus	94694-03-23 16:19 G	36307414.96	36307415.18	36307415.39	0.0089	0.0019
Earth	94694-08-23 09:50 G	36307567.78	36307567.91	36307568.05	0.0089	0.0074
Moon	94694-08-23 09:36 G	36307567.81	36307567.90	36307568.04	0.0089	0.0079 *
Venus	94694-11-04 05:02 G	36307640.51	36307640.71	36307640.92	0.0089	0.0029
Venus	94695-06-17 17:45 G	36307866.06	36307866.24	36307866.45	0.0089	0.0041
Moon	94695-08-25 19:12 G	36307935.09	36307935.30	36307935.51	0.0089	0.0051
Earth	94695-08-25 20:38 G	36307935.17	36307935.36	36307935.56	0.0089	0.0056 *
Venus	94696-01-29 06:43 G	36308091.61	36308091.78	36308091.97	0.0089	0.0051
Earth	94696-08-27 07:12 G	36308302.59	36308302.80	36308303.05	0.0089	0.0038
Moon	94696-08-27 10:05 G	36308302.72	36308302.92	36308303.15	0.0089	0.0043 *
Venus	94696-09-10 19:41 G	36308317.17	36308317.32	36308317.48	0.0089	0.0061
Venus	94697-04-24 08:24 G	36308542.74	36308542.85	36308542.99	0.0089	0.0072
Moon	94697-08-29 15:21 G	36308669.89	36308670.14	36308670.39	0.0089	0.0015
Earth	94697-08-29 18:14 G	36308670.02	36308670.26	36308670.52	0.0089	0.0020 *
Venus	94697-12-05 21:07 G	36308768.32	36308768.38	36308768.48	0.0089	0.0083
Earth	94698-09-01 05:02 G	36309037.46	36309037.71	36309037.97	0.0089	0.0002
Moon	94698-09-01 08:53 G	36309037.62	36309037.87	36309038.12	0.0089	0.0006 *
Moon	94699-09-03 12:29 G	36309404.79	36309405.02	36309405.28	0.0089	0.0022
Earth	94699-09-03 15:50 G	36309404.92	36309405.16	36309405.42	0.0089	0.0017 *
Earth	94700-09-06 02:24 G	36309772.37	36309772.60	36309772.84	0.0089	0.0035
Moon	94700-09-06 05:02 G	36309772.48	36309772.71	36309772.97	0.0089	0.0031 *

Moon	94701-09-08 11:02 G	36310139.79	36310139.96	36310140.17	0.0089	0.0058
Earth	94701-09-08 13:12 G	36310139.85	36310140.05	36310140.26	0.0089	0.0053 *
Moon	94702-09-10 23:45 G	36310507.34	36310507.49	36310507.69	0.0089	0.0067
Earth	94702-09-11 00:00 G	36310507.35	36310507.50	36310507.65	0.0089	0.0071 *
Jupiter	94707-11-12 08:38 G	36312395.47	36312395.86	36312396.26	0.0089	0.0059
Mars	94734-08-06 06:57 G	36322159.47	36322159.79	36322160.12	0.0088	0.0031
Mercury	94736-07-16 13:26 G	36322870.05	36322870.06	36322870.07	0.0088	0.0087
Mercury	94736-10-12 14:24 G	36322958.06	36322958.10	36322958.17	0.0088	0.0081
Mercury	94737-01-08 15:36 G	36323046.10	36323046.15	36323046.24	0.0088	0.0074
Mercury	94737-04-06 17:02 G	36323134.14	36323134.21	36323134.31	0.0088	0.0067
Mercury	94737-07-03 18:14 G	36323222.18	36323222.26	36323222.37	0.0088	0.0060
Mercury	94737-09-29 19:41 G	36323310.22	36323310.32	36323310.43	0.0088	0.0053
Mercury	94737-12-26 20:53 G	36323398.27	36323398.37	36323398.49	0.0088	0.0046
Mercury	94738-03-24 22:05 G	36323486.31	36323486.42	36323486.55	0.0088	0.0039
Mercury	94738-06-20 23:31 G	36323574.36	36323574.48	36323574.61	0.0088	0.0032
Mercury	94738-09-17 00:43 G	36323662.41	36323662.53	36323662.67	0.0088	0.0025
Mercury	94738-12-14 02:09 G	36323750.46	36323750.59	36323750.72	0.0088	0.0017
Mercury	94739-03-12 03:21 G	36323838.51	36323838.64	36323838.78	0.0088	0.0011
Mercury	94739-06-08 04:48 G	36323926.56	36323926.70	36323926.83	0.0088	0.0004
Mercury	94739-09-04 06:00 G	36324014.62	36324014.75	36324014.88	0.0088	0.0004
Mercury	94739-12-01 07:12 G	36324102.67	36324102.80	36324102.94	0.0088	0.0011
Mercury	94740-02-27 08:24 G	36324190.73	36324190.85	36324190.99	0.0088	0.0018
Mercury	94740-05-25 09:50 G	36324278.78	36324278.91	36324279.04	0.0088	0.0025
Mercury	94740-08-21 11:02 G	36324366.84	36324366.96	36324367.09	0.0088	0.0032
Mercury	94740-11-17 12:14 G	36324454.90	36324455.01	36324455.14	0.0088	0.0039
Mercury	94741-02-13 13:41 G	36324542.96	36324543.07	36324543.18	0.0088	0.0046
Mercury	94741-05-12 14:53 G	36324631.02	36324631.12	36324631.23	0.0088	0.0053
Mercury	94741-08-08 16:05 G	36324719.08	36324719.17	36324719.27	0.0088	0.0060
Mercury	94741-11-04 17:31 G	36324807.15	36324807.23	36324807.31	0.0088	0.0067
Mercury	94742-01-31 18:29 G	36324895.22	36324895.27	36324895.35	0.0088	0.0075



Mercury	94742-04-29 19:41 G	36324983.29	36324983.32	36324983.39	0.0088	0.0082
Venus	94771-06-02 13:26 G	36335609.04	36335609.06	36335609.14	0.0088	0.0086
Venus	94772-01-14 03:07 G	36335834.53	36335834.63	36335834.76	0.0088	0.0075
Venus	94772-08-26 16:48 G	36336060.04	36336060.20	36336060.35	0.0088	0.0065
Venus	94773-04-09 05:31 G	36336285.57	36336285.73	36336285.92	0.0088	0.0054
Venus	94773-11-20 19:12 G	36336511.11	36336511.30	36336511.50	0.0088	0.0043
Venus	94774-07-04 08:09 G	36336736.65	36336736.84	36336737.06	0.0088	0.0033
Venus	94775-02-14 21:36 G	36336962.19	36336962.40	36336962.62	0.0088	0.0022
Venus	94775-09-28 10:48 G	36337187.73	36337187.95	36337188.17	0.0088	0.0012
Venus	94776-05-11 00:00 G	36337413.28	36337413.50	36337413.72	0.0088	0.0001
Venus	94776-12-22 13:26 G	36337638.84	36337639.06	36337639.28	0.0088	0.0010
Earth	94777-02-22 18:57 G	36337701.29	36337701.29	36337701.33	0.0088	0.0088
Venus	94777-08-05 02:24 G	36337864.39	36337864.60	36337864.82	0.0088	0.0020
Earth	94778-02-25 07:12 G	36338068.67	36338068.80	36338068.98	0.0088	0.0071
Moon	94778-02-25 10:05 G	36338068.78	36338068.92	36338069.11	0.0088	0.0068 *
Venus	94778-03-18 15:21 G	36338089.94	36338090.14	36338090.36	0.0088	0.0031
Venus	94778-10-30 04:33 G	36338315.50	36338315.69	36338315.89	0.0088	0.0042
Moon	94779-02-27 16:19 G	36338436.00	36338436.18	36338436.41	0.0088	0.0056
Earth	94779-02-27 19:55 G	36338436.14	36338436.33	36338436.56	0.0088	0.0052 *
Venus	94779-06-12 17:31 G	36338541.07	36338541.23	36338541.42	0.0088	0.0052
Venus	94780-01-24 06:57 G	36338766.64	36338766.79	36338766.95	0.0088	0.0063
Earth	94780-03-01 08:53 G	36338803.63	36338803.87	36338804.11	0.0088	0.0034
Moon	94780-03-01 12:14 G	36338803.78	36338804.01	36338804.27	0.0088	0.0030 *
Venus	94780-09-05 19:41 G	36338992.22	36338992.32	36338992.46	0.0088	0.0074
Moon	94781-03-03 18:14 G	36339171.02	36339171.26	36339171.52	0.0088	0.0019
Earth	94781-03-03 21:21 G	36339171.14	36339171.39	36339171.66	0.0088	0.0016 *
Venus	94781-04-19 09:07 G	36339217.82	36339217.88	36339217.96	0.0088	0.0084
Earth	94782-03-06 10:05 G	36339538.66	36339538.92	36339539.18	0.0088	0.0003
Moon	94782-03-06 12:43 G	36339538.77	36339539.03	36339539.30	0.0088	0.0008 *
Moon	94783-03-08 21:36 G	36339906.15	36339906.40	36339906.65	0.0088	0.0018

Earth	94783-03-08 22:33 G	36339906.20	36339906.44	36339906.70	0.0088	0.0022	*
Earth	94784-03-10 11:17 G	36340273.75	36340273.97	36340274.21	0.0088	0.0040	
Moon	94784-03-10 11:31 G	36340273.76	36340273.98	36340274.23	0.0088	0.0044	*
Earth	94785-03-12 23:31 G	36340641.31	36340641.48	36340641.70	0.0088	0.0059	
Moon	94785-03-13 00:14 G	36340641.33	36340641.51	36340641.73	0.0088	0.0055	*
Moon	94786-03-15 09:50 G	36341008.83	36341008.91	36341009.05	0.0089	0.0081	
Earth	94786-03-15 12:14 G	36341008.91	36341009.01	36341009.16	0.0089	0.0077	*
Mars	94816-06-16 23:02 G	36352060.18	36352060.46	36352060.74	0.0090	0.0021	
Mars	94818-05-11 13:55 G	36352754.00	36352754.08	36352754.20	0.0090	0.0084	
Mercury	94820-06-26 12:00 G	36353530.92	36353531.00	36353531.10	0.0090	0.0079	
Mercury	94820-09-22 15:50 G	36353619.04	36353619.16	36353619.29	0.0090	0.0068	
Mercury	94820-12-19 19:26 G	36353707.17	36353707.31	36353707.47	0.0090	0.0057	
Mercury	94821-03-17 23:17 G	36353795.31	36353795.47	36353795.64	0.0090	0.0046	
Mercury	94821-06-14 02:53 G	36353883.45	36353883.62	36353883.81	0.0090	0.0035	
Mercury	94821-09-10 06:43 G	36353971.60	36353971.78	36353971.97	0.0090	0.0024	
Mercury	94821-12-07 10:33 G	36354059.75	36354059.94	36354060.13	0.0090	0.0013	
Mercury	94822-03-05 14:09 G	36354147.90	36354148.09	36354148.29	0.0090	0.0003	
Mercury	94822-06-01 18:00 G	36354236.06	36354236.25	36354236.44	0.0090	0.0009	
Mercury	94822-08-28 21:36 G	36354324.21	36354324.40	36354324.59	0.0090	0.0020	
Mercury	94822-11-25 01:12 G	36354412.38	36354412.55	36354412.74	0.0090	0.0031	
Mercury	94823-02-21 04:48 G	36354500.54	36354500.70	36354500.88	0.0090	0.0043	
Mercury	94823-05-20 08:24 G	36354588.71	36354588.85	36354589.02	0.0090	0.0054	
Mercury	94823-08-16 12:14 G	36354676.88	36354677.01	36354677.15	0.0090	0.0064	
Mercury	94823-11-12 15:50 G	36354765.07	36354765.16	36354765.28	0.0090	0.0075	
Mercury	94824-02-08 19:26 G	36354853.27	36354853.31	36354853.38	0.0090	0.0086	
Venus	94852-12-04 08:38 G	36365379.77	36365379.86	36365379.96	0.0089	0.0081	
Venus	94853-07-17 21:07 G	36365605.26	36365605.38	36365605.53	0.0089	0.0070	
Venus	94854-02-28 09:50 G	36365830.76	36365830.91	36365831.09	0.0089	0.0060	
Venus	94854-10-11 23:02 G	36366056.28	36366056.46	36366056.64	0.0089	0.0049	
Venus	94855-05-25 11:31 G	36366281.80	36366281.98	36366282.19	0.0089	0.0038	

Venus	94856-01-06 00:29 G	36366507.32	36366507.52	36366507.73	0.0089	0.0027
Venus	94856-08-18 13:26 G	36366732.84	36366733.06	36366733.27	0.0089	0.0017
Venus	94857-04-01 01:55 G	36366958.37	36366958.58	36366958.81	0.0089	0.0006
Venus	94857-11-12 14:53 G	36367183.90	36367184.12	36367184.34	0.0089	0.0005
Venus	94858-06-26 03:36 G	36367409.45	36367409.65	36367409.87	0.0089	0.0016
Moon	94858-08-23 18:00 G	36367468.16	36367468.25	36367468.40	0.0089	0.0080
Earth	94858-08-23 20:09 G	36367468.26	36367468.34	36367468.49	0.0089	0.0080 *
Venus	94859-02-06 16:19 G	36367634.99	36367635.18	36367635.40	0.0089	0.0027
Earth	94859-08-26 07:12 G	36367835.64	36367835.80	36367836.01	0.0089	0.0061
Moon	94859-08-26 10:33 G	36367835.76	36367835.94	36367836.12	0.0089	0.0061 *
Venus	94859-09-20 05:31 G	36367860.53	36367860.73	36367860.93	0.0089	0.0037
Venus	94860-05-02 18:14 G	36368086.08	36368086.26	36368086.45	0.0089	0.0048
Moon	94860-08-27 14:38 G	36368202.91	36368203.11	36368203.35	0.0089	0.0043
Earth	94860-08-27 18:29 G	36368203.06	36368203.27	36368203.51	0.0089	0.0043 *
Venus	94860-12-14 06:57 G	36368311.64	36368311.79	36368311.97	0.0089	0.0059
Venus	94861-07-27 19:41 G	36368537.21	36368537.32	36368537.48	0.0089	0.0070
Earth	94861-08-30 05:17 G	36368570.49	36368570.72	36368570.98	0.0089	0.0024
Moon	94861-08-30 08:38 G	36368570.63	36368570.86	36368571.12	0.0089	0.0025 *
Venus	94862-03-10 08:53 G	36368762.79	36368762.87	36368762.97	0.0089	0.0080
Moon	94862-09-01 13:12 G	36368937.81	36368938.05	36368938.31	0.0089	0.0005
Earth	94862-09-01 16:33 G	36368937.94	36368938.19	36368938.45	0.0089	0.0006 *
Earth	94863-09-04 03:07 G	36369305.39	36369305.63	36369305.89	0.0089	0.0013
Moon	94863-09-04 05:31 G	36369305.47	36369305.73	36369305.99	0.0089	0.0012 *
Moon	94864-09-05 12:43 G	36369672.81	36369673.03	36369673.27	0.0089	0.0032
Earth	94864-09-05 13:55 G	36369672.85	36369673.08	36369673.33	0.0089	0.0031 *
Earth	94865-09-08 00:57 G	36370040.33	36370040.54	36370040.75	0.0089	0.0049
Moon	94865-09-08 00:57 G	36370040.33	36370040.54	36370040.77	0.0089	0.0048 *
Earth	94866-09-10 11:31 G	36370407.82	36370407.98	36370408.15	0.0089	0.0067
Moon	94866-09-10 12:43 G	36370407.89	36370408.03	36370408.20	0.0089	0.0068 *
Moon	94867-09-12 19:12 G	36370775.25	36370775.30	36370775.41	0.0089	0.0085

Earth	94867-09-12 22:05 G	36370775.36	36370775.42	36370775.50	0.0089	0.0085 *
Jupiter	94874-01-15 23:02 G	36373092.23	36373092.46	36373092.83	0.0089	0.0074
Mars	94898-03-19 19:12 G	36381920.96	36381921.30	36381921.64	0.0088	0.0011
Mercury	94901-04-13 13:12 G	36383041.02	36383041.05	36383041.10	0.0088	0.0084
Mercury	94901-07-10 14:24 G	36383129.05	36383129.10	36383129.18	0.0088	0.0077
Mercury	94901-10-06 15:50 G	36383217.09	36383217.16	36383217.25	0.0088	0.0070
Mercury	94902-01-02 17:02 G	36383305.13	36383305.21	36383305.31	0.0088	0.0063
Mercury	94902-03-31 18:14 G	36383393.17	36383393.26	36383393.37	0.0088	0.0056
Mercury	94902-06-27 19:41 G	36383481.22	36383481.32	36383481.44	0.0088	0.0049
Mercury	94902-09-23 20:53 G	36383569.26	36383569.37	36383569.50	0.0088	0.0042
Mercury	94902-12-20 22:19 G	36383657.31	36383657.43	36383657.55	0.0088	0.0035
Mercury	94903-03-18 23:31 G	36383745.36	36383745.48	36383745.61	0.0088	0.0028
Mercury	94903-06-15 00:43 G	36383833.41	36383833.53	36383833.67	0.0088	0.0021
Mercury	94903-09-11 02:09 G	36383921.46	36383921.59	36383921.72	0.0088	0.0013
Mercury	94903-12-08 03:21 G	36384009.51	36384009.64	36384009.78	0.0088	0.0007
Mercury	94904-03-05 04:48 G	36384097.56	36384097.70	36384097.83	0.0088	0.0002
Mercury	94904-06-01 06:00 G	36384185.62	36384185.75	36384185.88	0.0088	0.0008
Mercury	94904-08-28 07:12 G	36384273.67	36384273.80	36384273.93	0.0088	0.0015
Mercury	94904-11-24 08:24 G	36384361.73	36384361.85	36384361.98	0.0088	0.0022
Mercury	94905-02-20 09:50 G	36384449.78	36384449.91	36384450.03	0.0088	0.0029
Mercury	94905-05-19 11:02 G	36384537.84	36384537.96	36384538.08	0.0088	0.0036
Mercury	94905-08-15 12:14 G	36384625.90	36384626.01	36384626.13	0.0088	0.0043
Mercury	94905-11-11 13:41 G	36384713.96	36384714.07	36384714.18	0.0088	0.0050
Mercury	94906-02-07 14:53 G	36384802.02	36384802.12	36384802.22	0.0088	0.0057
Mercury	94906-05-06 16:05 G	36384890.09	36384890.17	36384890.27	0.0088	0.0064
Mercury	94906-08-02 17:31 G	36384978.15	36384978.23	36384978.31	0.0088	0.0071
Mercury	94906-10-29 18:29 G	36385066.23	36385066.27	36385066.34	0.0088	0.0079
Mercury	94907-01-25 19:41 G	36385154.31	36385154.32	36385154.37	0.0088	0.0086
Venus	94936-04-17 13:55 G	36395829.00	36395829.08	36395829.21	0.0088	0.0078
Venus	94936-11-29 03:36 G	36396054.52	36396054.65	36396054.81	0.0088	0.0067

Venus	94937-07-12 17:02 G	36396280.05	36396280.21	36396280.39	0.0088	0.0057
Venus	94938-02-23 06:00 G	36396505.58	36396505.75	36396505.96	0.0088	0.0046
Venus	94938-10-06 19:26 G	36396731.11	36396731.31	36396731.52	0.0088	0.0035
Venus	94939-05-20 08:38 G	36396956.66	36396956.86	36396957.09	0.0088	0.0025
Venus	94939-12-31 22:05 G	36397182.21	36397182.42	36397182.65	0.0088	0.0014
Venus	94940-08-13 11:31 G	36397407.76	36397407.98	36397408.20	0.0088	0.0003
Venus	94941-03-27 00:43 G	36397633.31	36397633.53	36397633.75	0.0088	0.0007
Venus	94941-11-07 13:41 G	36397858.86	36397859.07	36397859.30	0.0088	0.0018
Moon	94942-02-25 13:41 G	36397968.94	36397969.07	36397969.25	0.0088	0.0070
Earth	94942-02-25 17:02 G	36397969.10	36397969.21	36397969.38	0.0088	0.0075 *
Venus	94942-06-21 02:53 G	36398084.42	36398084.62	36398084.84	0.0088	0.0029
Venus	94943-02-01 15:50 G	36398309.98	36398310.16	36398310.38	0.0088	0.0040
Earth	94943-02-28 06:00 G	36398336.56	36398336.75	36398336.96	0.0088	0.0056
Moon	94943-02-28 09:21 G	36398336.72	36398336.89	36398337.11	0.0088	0.0059 *
Venus	94943-09-15 05:17 G	36398535.54	36398535.72	36398535.91	0.0088	0.0050
Moon	94944-03-01 15:50 G	36398703.93	36398704.16	36398704.40	0.0088	0.0034
Earth	94944-03-01 18:43 G	36398704.05	36398704.28	36398704.52	0.0088	0.0038 *
Venus	94944-04-27 18:00 G	36398761.11	36398761.25	36398761.43	0.0088	0.0061
Venus	94944-12-09 07:41 G	36398986.69	36398986.82	36398986.95	0.0088	0.0071
Earth	94945-03-04 06:57 G	36399071.54	36399071.79	36399072.05	0.0088	0.0020
Moon	94945-03-04 08:53 G	36399071.62	36399071.87	36399072.14	0.0088	0.0023 *
Venus	94945-07-22 20:24 G	36399212.28	36399212.35	36399212.45	0.0088	0.0082
Moon	94946-03-06 18:29 G	36399439.02	36399439.27	36399439.53	0.0088	0.0002
Earth	94946-03-06 19:41 G	36399439.06	36399439.32	36399439.59	0.0088	0.0002 *
Moon	94947-03-09 07:55 G	36399806.56	36399806.83	36399807.09	0.0088	0.0014
Earth	94947-03-09 08:09 G	36399806.59	36399806.84	36399807.11	0.0088	0.0018 *
Earth	94948-03-10 20:38 G	36400174.13	36400174.36	36400174.61	0.0088	0.0036
Moon	94948-03-10 22:05 G	36400174.21	36400174.42	36400174.66	0.0088	0.0039 *
Moon	94949-03-13 06:29 G	36400541.58	36400541.77	36400542.02	0.0088	0.0052
Earth	94949-03-13 08:53 G	36400541.69	36400541.87	36400542.10	0.0088	0.0055 *

Earth	94950-03-15 21:36 G	36400909.27	36400909.40	36400909.57	0.0089	0.0073
Moon	94950-03-16 01:12 G	36400909.44	36400909.55	36400909.70	0.0089	0.0076 *
Moon	94951-03-18 06:57 G	36401276.78	36401276.79	36401276.84	0.0089	0.0088
Mars	94980-02-01 15:21 G	36411823.94	36411824.14	36411824.38	0.0090	0.0058
Mars	94981-12-26 05:45 G	36412517.52	36412517.74	36412518.01	0.0090	0.0048
Mercury	94984-12-26 07:12 G	36413613.74	36413613.80	36413613.87	0.0090	0.0084
Mercury	94985-03-24 11:02 G	36413701.85	36413701.96	36413702.07	0.0090	0.0073
Mercury	94985-06-20 14:38 G	36413789.98	36413790.11	36413790.26	0.0090	0.0062
Mercury	94985-09-16 18:29 G	36413878.11	36413878.27	36413878.43	0.0090	0.0051
Mercury	94985-12-13 22:05 G	36413966.25	36413966.42	36413966.60	0.0090	0.0040
Mercury	94986-03-12 01:55 G	36414054.40	36414054.58	36414054.77	0.0090	0.0029
Mercury	94986-06-08 05:45 G	36414142.55	36414142.74	36414142.93	0.0090	0.0018
Mercury	94986-09-04 09:21 G	36414230.70	36414230.89	36414231.09	0.0090	0.0007
Mercury	94986-12-01 13:12 G	36414318.85	36414319.05	36414319.24	0.0090	0.0004
Mercury	94987-02-27 16:33 G	36414407.01	36414407.19	36414407.39	0.0090	0.0016
Mercury	94987-05-26 20:09 G	36414495.17	36414495.34	36414495.54	0.0090	0.0027
Mercury	94987-08-23 00:14 G	36414583.33	36414583.51	36414583.69	0.0090	0.0037
Mercury	94987-11-19 03:50 G	36414671.50	36414671.66	36414671.83	0.0090	0.0048
Mercury	94988-02-15 07:26 G	36414759.67	36414759.81	36414759.96	0.0090	0.0059
Mercury	94988-05-13 11:02 G	36414847.85	36414847.96	36414848.09	0.0090	0.0070
Mercury	94988-08-09 14:38 G	36414936.04	36414936.11	36414936.20	0.0090	0.0081

## 96TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 96th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	95017-03-09 20:09	G	36425374.28	36425374.34	36425374.43	0.0089	0.0083	
Venus	95017-10-21 09:07	G	36425599.76	36425599.88	36425600.01	0.0089	0.0073	
Venus	95018-06-03 21:36	G	36425825.27	36425825.40	36425825.58	0.0089	0.0063	
Venus	95019-01-15 10:33	G	36426050.78	36426050.94	36426051.13	0.0089	0.0052	
Venus	95019-08-28 23:31	G	36426276.29	36426276.48	36426276.68	0.0089	0.0041	
Venus	95020-04-10 12:00	G	36426501.81	36426502.00	36426502.22	0.0089	0.0030	
Venus	95020-11-22 00:57	G	36426727.33	36426727.54	36426727.76	0.0089	0.0019	
Venus	95021-07-05 13:55	G	36426952.87	36426953.08	36426953.30	0.0089	0.0008	
Venus	95022-02-16 02:38	G	36427178.39	36427178.61	36427178.83	0.0089	0.0003	
Earth	95022-08-25 07:41	G	36427368.75	36427368.82	36427368.93	0.0089	0.0083	
Moon	95022-08-25 11:17	G	36427368.86	36427368.97	36427369.10	0.0089	0.0079	*
Venus	95022-09-29 15:21	G	36427403.93	36427404.14	36427404.36	0.0089	0.0013	
Venus	95023-05-13 04:05	G	36427629.47	36427629.67	36427629.89	0.0089	0.0024	
Moon	95023-08-27 15:36	G	36427735.99	36427736.15	36427736.31	0.0089	0.0070	
Earth	95023-08-27 18:29	G	36427736.12	36427736.27	36427736.47	0.0089	0.0065	*
Venus	95023-12-24 16:48	G	36427855.01	36427855.20	36427855.41	0.0089	0.0035	
Venus	95024-08-06 06:00	G	36428080.56	36428080.75	36428080.93	0.0089	0.0046	
Earth	95024-08-29 05:17	G	36428103.52	36428103.72	36428103.96	0.0089	0.0047	
Moon	95024-08-29 09:07	G	36428103.66	36428103.88	36428104.11	0.0089	0.0042	*
Venus	95025-03-19 18:29	G	36428306.11	36428306.27	36428306.45	0.0089	0.0056	
Moon	95025-08-31 13:41	G	36428470.86	36428471.07	36428471.32	0.0089	0.0033	
Earth	95025-08-31 16:33	G	36428470.95	36428471.19	36428471.43	0.0089	0.0028	*
Venus	95025-10-31 07:12	G	36428531.67	36428531.80	36428531.96	0.0089	0.0067	
Venus	95026-06-13 19:55	G	36428757.25	36428757.33	36428757.46	0.0089	0.0078	
Earth	95026-09-03 03:07	G	36428838.39	36428838.63	36428838.89	0.0089	0.0010	
Moon	95026-09-03 05:31	G	36428838.47	36428838.73	36428838.99	0.0089	0.0005	*
Venus	95027-01-25 09:07	G	36428982.87	36428982.88	36428982.92	0.0089	0.0088	

Moon	95027-09-05 13:41 G	36429205.83	36429206.07	36429206.32	0.0089	0.0004
Earth	95027-09-05 14:09 G	36429205.84	36429206.09	36429206.35	0.0089	0.0009 *
Moon	95028-09-07 00:14 G	36429573.27	36429573.51	36429573.77	0.0089	0.0031
Earth	95028-09-07 00:57 G	36429573.31	36429573.54	36429573.79	0.0089	0.0027 *
Earth	95029-09-09 11:45 G	36429940.78	36429940.99	36429941.22	0.0089	0.0045
Moon	95029-09-09 12:57 G	36429940.84	36429941.04	36429941.28	0.0089	0.0041 *
Moon	95030-09-11 19:26 G	36430308.16	36430308.31	36430308.49	0.0089	0.0068
Earth	95030-09-11 22:33 G	36430308.27	36430308.44	36430308.63	0.0089	0.0063 *
Earth	95031-09-14 09:21 G	36430675.79	36430675.89	36430675.99	0.0089	0.0081
Moon	95031-09-14 12:14 G	36430675.91	36430676.01	36430676.16	0.0089	0.0077 *
Mars	95061-11-02 07:26 G	36441682.54	36441682.81	36441683.09	0.0088	0.0053
Mars	95063-09-29 14:09 G	36442378.87	36442379.09	36442379.31	0.0088	0.0067
Mercury	95065-10-13 11:45 G	36443123.99	36443123.99	36443124.02	0.0088	0.0087
Mercury	95066-01-09 13:12 G	36443212.01	36443212.05	36443212.11	0.0088	0.0080
Mercury	95066-04-07 14:24 G	36443300.04	36443300.10	36443300.18	0.0088	0.0073
Mercury	95066-07-04 15:50 G	36443388.08	36443388.16	36443388.25	0.0088	0.0066
Mercury	95066-09-30 17:02 G	36443476.12	36443476.21	36443476.31	0.0088	0.0059
Mercury	95066-12-27 18:14 G	36443564.16	36443564.26	36443564.38	0.0088	0.0052
Mercury	95067-03-25 19:41 G	36443652.21	36443652.32	36443652.44	0.0088	0.0045
Mercury	95067-06-21 20:53 G	36443740.26	36443740.37	36443740.49	0.0088	0.0038
Mercury	95067-09-17 22:05 G	36443828.30	36443828.42	36443828.55	0.0088	0.0031
Mercury	95067-12-14 23:31 G	36443916.35	36443916.48	36443916.61	0.0088	0.0024
Mercury	95068-03-12 00:43 G	36444004.40	36444004.53	36444004.66	0.0088	0.0017
Mercury	95068-06-08 02:09 G	36444092.45	36444092.59	36444092.72	0.0088	0.0010
Mercury	95068-09-04 03:21 G	36444180.51	36444180.64	36444180.77	0.0088	0.0003
Mercury	95068-12-01 04:33 G	36444268.56	36444268.69	36444268.82	0.0088	0.0004
Mercury	95069-02-27 05:45 G	36444356.61	36444356.74	36444356.88	0.0088	0.0012
Mercury	95069-05-26 06:57 G	36444444.67	36444444.79	36444444.93	0.0088	0.0019
Mercury	95069-08-22 08:24 G	36444532.72	36444532.85	36444532.98	0.0088	0.0025
Mercury	95069-11-18 09:36 G	36444620.78	36444620.90	36444621.03	0.0088	0.0033



Mercury	95070-02-14 10:48 G	36444708.84	36444708.95	36444709.08	0.0088	0.0040
Mercury	95070-05-13 12:00 G	36444796.90	36444797.00	36444797.12	0.0088	0.0047
Mercury	95070-08-09 13:26 G	36444884.96	36444885.06	36444885.17	0.0088	0.0054
Mercury	95070-11-05 14:38 G	36444973.02	36444973.11	36444973.21	0.0088	0.0061
Mercury	95071-02-01 16:05 G	36445061.09	36445061.17	36445061.26	0.0088	0.0068
Mercury	95071-04-30 17:17 G	36445149.16	36445149.22	36445149.29	0.0088	0.0075
Mercury	95071-07-27 18:43 G	36445237.24	36445237.28	36445237.33	0.0088	0.0082
Venus	95100-07-22 01:12 G	36455823.47	36455823.55	36455823.65	0.0088	0.0080
Venus	95101-03-04 14:09 G	36456048.98	36456049.09	36456049.25	0.0088	0.0070
Venus	95101-10-16 03:36 G	36456274.50	36456274.65	36456274.83	0.0088	0.0059
Venus	95102-05-29 16:48 G	36456500.03	36456500.20	36456500.40	0.0088	0.0049
Venus	95103-01-10 06:14 G	36456725.57	36456725.76	36456725.98	0.0088	0.0038
Venus	95103-08-23 19:41 G	36456951.12	36456951.32	36456951.54	0.0088	0.0027
Venus	95104-04-05 08:53 G	36457176.66	36457176.87	36457177.10	0.0088	0.0017
Venus	95104-11-16 22:19 G	36457402.21	36457402.43	36457402.66	0.0088	0.0006
Venus	95105-06-30 11:31 G	36457627.77	36457627.98	36457628.21	0.0088	0.0006
Venus	95106-02-11 00:57 G	36457853.32	36457853.54	36457853.76	0.0088	0.0015
Earth	95106-02-27 02:24 G	36457869.51	36457869.60	36457869.75	0.0088	0.0079
Moon	95106-02-27 05:31 G	36457869.65	36457869.73	36457869.87	0.0088	0.0080 *
Venus	95106-09-24 13:55 G	36458078.88	36458079.08	36458079.30	0.0088	0.0026
Moon	95107-03-01 12:43 G	36458236.86	36458237.03	36458237.24	0.0088	0.0058
Earth	95107-03-01 15:07 G	36458236.97	36458237.13	36458237.35	0.0088	0.0061 *
Venus	95107-05-08 03:21 G	36458304.44	36458304.64	36458304.84	0.0088	0.0037
Venus	95107-12-19 16:19 G	36458530.01	36458530.18	36458530.38	0.0088	0.0048
Earth	95108-03-03 04:05 G	36458604.45	36458604.67	36458604.90	0.0088	0.0042
Moon	95108-03-03 05:17 G	36458604.51	36458604.72	36458604.97	0.0088	0.0045 *
Venus	95108-08-01 05:45 G	36458755.58	36458755.74	36458755.91	0.0088	0.0058
Earth	95109-03-05 16:33 G	36458971.95	36458972.19	36458972.45	0.0088	0.0024
Moon	95109-03-05 16:33 G	36458971.96	36458972.19	36458972.45	0.0088	0.0022 *
Venus	95109-03-14 18:29 G	36458981.15	36458981.27	36458981.43	0.0088	0.0069

Venus	95109-10-26 08:09 G	36459206.74	36459206.84	36459206.93	0.0088	0.0079
Moon	95110-03-08 04:33 G	36459339.42	36459339.69	36459339.96	0.0088	0.0008
Earth	95110-03-08 05:17 G	36459339.47	36459339.72	36459339.99	0.0088	0.0005 *
Earth	95111-03-10 17:45 G	36459706.99	36459707.24	36459707.50	0.0088	0.0013
Moon	95111-03-10 19:55 G	36459707.08	36459707.33	36459707.58	0.0088	0.0016 *
Moon	95112-03-12 02:53 G	36460074.39	36460074.62	36460074.89	0.0088	0.0030
Earth	95112-03-12 06:14 G	36460074.53	36460074.76	36460075.01	0.0088	0.0032 *
Earth	95113-03-14 18:43 G	36460442.08	36460442.28	36460442.51	0.0088	0.0050
Moon	95113-03-14 21:50 G	36460442.23	36460442.41	36460442.63	0.0088	0.0054 *
Moon	95114-03-17 03:36 G	36460809.49	36460809.65	36460809.84	0.0088	0.0065
Earth	95114-03-17 07:12 G	36460809.66	36460809.80	36460809.99	0.0088	0.0069 *
Earth	95115-03-19 19:41 G	36461177.29	36461177.32	36461177.40	0.0089	0.0087
Mars	95145-08-12 23:02 G	36472281.18	36472281.46	36472281.75	0.0090	0.0011
Mercury	95149-06-28 02:24 G	36473696.59	36473696.60	36473696.62	0.0090	0.0089
Mercury	95149-09-24 06:00 G	36473784.67	36473784.75	36473784.85	0.0090	0.0078
Mercury	95149-12-21 09:50 G	36473872.79	36473872.91	36473873.04	0.0090	0.0067
Mercury	95150-03-19 13:41 G	36473960.92	36473961.07	36473961.22	0.0090	0.0056
Mercury	95150-06-15 17:17 G	36474049.06	36474049.22	36474049.40	0.0090	0.0045
Mercury	95150-09-11 21:07 G	36474137.20	36474137.38	36474137.56	0.0090	0.0034
Mercury	95150-12-09 00:57 G	36474225.35	36474225.54	36474225.73	0.0090	0.0023
Mercury	95151-03-07 04:33 G	36474313.50	36474313.69	36474313.89	0.0090	0.0012
Mercury	95151-06-03 08:24 G	36474401.65	36474401.85	36474402.04	0.0090	0.0001
Mercury	95151-08-30 12:00 G	36474489.81	36474490.00	36474490.20	0.0090	0.0010
Mercury	95151-11-26 15:50 G	36474577.97	36474578.16	36474578.35	0.0090	0.0021
Mercury	95152-02-22 19:26 G	36474666.13	36474666.31	36474666.49	0.0090	0.0032
Mercury	95152-05-20 23:02 G	36474754.30	36474754.46	36474754.64	0.0090	0.0043
Mercury	95152-08-17 02:38 G	36474842.47	36474842.61	36474842.77	0.0090	0.0054
Mercury	95152-11-13 06:14 G	36474930.64	36474930.76	36474930.91	0.0090	0.0065
Mercury	95153-02-09 09:50 G	36475018.82	36475018.91	36475019.03	0.0090	0.0076
Mercury	95153-05-08 13:26 G	36475107.03	36475107.06	36475107.13	0.0090	0.0087

Venus	95181-06-12 08:24 G	36485368.79	36485368.85	36485368.90	0.0089	0.0086
Venus	95182-01-23 20:38 G	36485594.26	36485594.36	36485594.49	0.0089	0.0076
Venus	95182-09-06 09:36 G	36485819.76	36485819.90	36485820.06	0.0089	0.0065
Venus	95183-04-19 22:05 G	36486045.27	36486045.42	36486045.62	0.0089	0.0055
Venus	95183-12-01 11:02 G	36486270.79	36486270.96	36486271.17	0.0089	0.0044
Venus	95184-07-14 00:00 G	36486496.31	36486496.50	36486496.71	0.0089	0.0033
Venus	95185-02-24 12:57 G	36486721.83	36486722.04	36486722.25	0.0089	0.0022
Venus	95185-10-08 01:41 G	36486947.36	36486947.57	36486947.79	0.0089	0.0011
Venus	95186-05-21 14:38 G	36487172.89	36487173.11	36487173.33	0.0089	0.0001
Moon	95186-08-25 15:50 G	36487269.11	36487269.16	36487269.25	0.0089	0.0085
Earth	95186-08-25 19:12 G	36487269.27	36487269.30	36487269.38	0.0089	0.0087
Venus	95187-01-02 03:07 G	36487398.42	36487398.63	36487398.86	0.0089	0.0012
Venus	95187-08-15 16:05 G	36487623.96	36487624.17	36487624.38	0.0089	0.0022
Earth	95187-08-28 05:45 G	36487636.61	36487636.74	36487636.93	0.0089	0.0070
Moon	95187-08-28 09:21 G	36487636.75	36487636.89	36487637.07	0.0089	0.0069 *
Venus	95188-03-28 04:33 G	36487849.50	36487849.69	36487849.91	0.0089	0.0033
Moon	95188-08-29 14:24 G	36488003.91	36488004.10	36488004.32	0.0089	0.0050
Earth	95188-08-29 16:48 G	36488004.02	36488004.20	36488004.43	0.0089	0.0051 *
Venus	95188-11-08 17:17 G	36488075.04	36488075.22	36488075.43	0.0089	0.0043
Venus	95189-06-22 06:00 G	36488300.60	36488300.75	36488300.95	0.0089	0.0054
Earth	95189-09-01 03:50 G	36488371.43	36488371.66	36488371.90	0.0089	0.0032
Moon	95189-09-01 05:02 G	36488371.47	36488371.71	36488371.96	0.0089	0.0033 *
Venus	95190-02-02 19:12 G	36488526.16	36488526.30	36488526.46	0.0089	0.0064
Moon	95190-09-03 14:09 G	36488738.86	36488739.09	36488739.35	0.0089	0.0014
Earth	95190-09-03 14:38 G	36488738.86	36488739.11	36488739.37	0.0089	0.0014 *
Venus	95190-09-16 07:41 G	36488751.72	36488751.82	36488751.96	0.0089	0.0075
Venus	95191-04-29 20:24 G	36488977.32	36488977.35	36488977.43	0.0089	0.0086
Moon	95191-09-06 00:29 G	36489106.26	36489106.52	36489106.78	0.0089	0.0003
Earth	95191-09-06 01:41 G	36489106.31	36489106.57	36489106.82	0.0089	0.0004 *
Earth	95192-09-07 12:00 G	36489473.77	36489474.00	36489474.26	0.0089	0.0023

Moon	95192-09-07 14:38 G	36489473.88	36489474.11	36489474.36	0.0089	0.0024 *
Moon	95193-09-09 20:09 G	36489841.12	36489841.34	36489841.58	0.0089	0.0040
Earth	95193-09-09 23:02 G	36489841.25	36489841.46	36489841.70	0.0089	0.0041 *
Earth	95194-09-12 09:50 G	36490208.73	36490208.91	36490209.11	0.0089	0.0059
Moon	95194-09-12 13:41 G	36490208.89	36490209.07	36490209.26	0.0089	0.0059 *
Moon	95195-09-14 17:31 G	36490576.11	36490576.23	36490576.36	0.0089	0.0076
Earth	95195-09-14 20:38 G	36490576.25	36490576.36	36490576.50	0.0089	0.0077 *
Mars	95227-05-14 03:07 G	36502140.30	36502140.63	36502140.96	0.0088	0.0025
Mercury	95230-07-11 12:00 G	36503294.96	36503295.00	36503295.04	0.0088	0.0083
Mercury	95230-10-07 13:12 G	36503382.99	36503383.05	36503383.12	0.0088	0.0076
Mercury	95231-01-03 14:24 G	36503471.03	36503471.10	36503471.19	0.0088	0.0069
Mercury	95231-04-01 15:50 G	36503559.07	36503559.16	36503559.25	0.0088	0.0062
Mercury	95231-06-28 17:02 G	36503647.11	36503647.21	36503647.32	0.0088	0.0055
Mercury	95231-09-24 18:29 G	36503735.16	36503735.27	36503735.38	0.0088	0.0048
Mercury	95231-12-21 19:41 G	36503823.20	36503823.32	36503823.44	0.0088	0.0041
Mercury	95232-03-18 20:53 G	36503911.25	36503911.37	36503911.49	0.0088	0.0034
Mercury	95232-06-14 22:05 G	36503999.30	36503999.42	36503999.55	0.0088	0.0027
Mercury	95232-09-10 23:31 G	36504087.35	36504087.48	36504087.61	0.0088	0.0020
Mercury	95232-12-08 00:43 G	36504175.40	36504175.53	36504175.66	0.0088	0.0013
Mercury	95233-03-06 01:55 G	36504263.45	36504263.58	36504263.72	0.0088	0.0006
Mercury	95233-06-02 03:21 G	36504351.50	36504351.64	36504351.77	0.0088	0.0003
Mercury	95233-08-29 04:33 G	36504439.56	36504439.69	36504439.82	0.0088	0.0008
Mercury	95233-11-25 05:45 G	36504527.61	36504527.74	36504527.87	0.0088	0.0015
Mercury	95234-02-21 06:57 G	36504615.67	36504615.79	36504615.92	0.0088	0.0022
Mercury	95234-05-20 08:09 G	36504703.72	36504703.84	36504703.97	0.0088	0.0030
Mercury	95234-08-16 09:21 G	36504791.78	36504791.89	36504792.02	0.0088	0.0037
Mercury	95234-11-12 10:48 G	36504879.84	36504879.95	36504880.07	0.0088	0.0043
Mercury	95235-02-08 12:00 G	36504967.90	36504968.00	36504968.12	0.0088	0.0051
Mercury	95235-05-07 13:12 G	36505055.96	36505056.05	36505056.16	0.0088	0.0058
Mercury	95235-08-03 14:38 G	36505144.03	36505144.11	36505144.21	0.0088	0.0065

Mercury	95235-10-30 15:50 G	36505232.10	36505232.16	36505232.25	0.0088	0.0072
Mercury	95236-01-26 17:02 G	36505320.17	36505320.21	36505320.28	0.0088	0.0079
Mercury	95236-04-23 18:29 G	36505408.25	36505408.27	36505408.30	0.0088	0.0086
Venus	95264-10-23 12:00 G	36515817.95	36515818.00	36515818.10	0.0088	0.0083
Venus	95265-06-06 01:26 G	36516043.45	36516043.56	36516043.70	0.0088	0.0073
Venus	95266-01-17 14:38 G	36516268.97	36516269.11	36516269.29	0.0088	0.0062
Venus	95266-08-31 04:05 G	36516494.50	36516494.67	36516494.86	0.0088	0.0051
Venus	95267-04-13 17:31 G	36516720.03	36516720.23	36516720.43	0.0088	0.0041
Venus	95267-11-25 06:43 G	36516945.58	36516945.78	36516946.00	0.0088	0.0030
Venus	95268-07-07 20:09 G	36517171.12	36517171.34	36517171.56	0.0088	0.0019
Venus	95269-02-18 09:21 G	36517396.67	36517396.89	36517397.11	0.0088	0.0009
Venus	95269-10-01 22:33 G	36517622.22	36517622.44	36517622.66	0.0088	0.0002
Moon	95270-02-26 10:05 G	36517769.91	36517769.92	36517769.99	0.0088	0.0088
Earth	95270-02-26 11:45 G	36517769.92	36517769.99	36517770.11	0.0088	0.0083 *
Venus	95270-05-15 11:45 G	36517847.77	36517847.99	36517848.21	0.0088	0.0013
Venus	95270-12-27 01:12 G	36518073.34	36518073.55	36518073.77	0.0088	0.0023
Earth	95271-03-01 00:14 G	36518137.36	36518137.51	36518137.71	0.0088	0.0065
Moon	95271-03-01 01:12 G	36518137.38	36518137.55	36518137.77	0.0088	0.0061 *
Venus	95271-08-09 14:09 G	36518298.90	36518299.09	36518299.31	0.0088	0.0034
Earth	95272-03-02 12:57 G	36518504.84	36518505.04	36518505.29	0.0088	0.0046
Moon	95272-03-02 13:26 G	36518504.87	36518505.06	36518505.28	0.0088	0.0051 *
Venus	95272-03-22 03:36 G	36518524.46	36518524.65	36518524.84	0.0088	0.0045
Venus	95272-11-02 16:33 G	36518750.03	36518750.19	36518750.37	0.0088	0.0055
Moon	95273-03-04 23:45 G	36518872.25	36518872.49	36518872.77	0.0088	0.0024
Earth	95273-03-05 02:09 G	36518872.34	36518872.59	36518872.84	0.0088	0.0028 *
Venus	95273-06-16 06:00 G	36518975.61	36518975.75	36518975.90	0.0088	0.0066
Venus	95274-01-27 18:57 G	36519201.20	36519201.29	36519201.41	0.0088	0.0077
Earth	95274-03-07 14:24 G	36519239.85	36519240.10	36519240.37	0.0088	0.0010
Moon	95274-03-07 16:48 G	36519239.96	36519240.20	36519240.46	0.0088	0.0014 *
Venus	95274-09-10 08:24 G	36519426.81	36519426.85	36519426.89	0.0088	0.0087

Moon	95275-03-09 23:45 G	36519607.23	36519607.49	36519607.75	0.0088	0.0014
Earth	95275-03-10 03:07 G	36519607.38	36519607.63	36519607.90	0.0088	0.0009 *
Earth	95276-03-11 15:21 G	36519974.90	36519975.14	36519975.40	0.0088	0.0028
Moon	95276-03-11 18:57 G	36519975.05	36519975.29	36519975.56	0.0088	0.0024 *
Moon	95277-03-14 00:29 G	36520342.32	36520342.52	36520342.75	0.0088	0.0050
Earth	95277-03-14 04:05 G	36520342.46	36520342.67	36520342.90	0.0088	0.0046 *
Earth	95278-03-16 16:05 G	36520710.02	36520710.17	36520710.38	0.0088	0.0065
Moon	95278-03-16 19:26 G	36520710.14	36520710.31	36520710.53	0.0088	0.0061 *
Moon	95279-03-19 02:53 G	36521077.59	36521077.62	36521077.70	0.0089	0.0087
Earth	95279-03-19 04:33 G	36521077.63	36521077.69	36521077.82	0.0089	0.0083 *
Mars	95309-03-29 14:24 G	36532044.84	36532045.10	36532045.39	0.0090	0.0027
Mars	95311-02-21 06:14 G	36532738.63	36532738.76	36532738.91	0.0090	0.0078
Mercury	95314-03-26 00:43 G	36533867.48	36533867.53	36533867.62	0.0090	0.0084
Mercury	95314-06-22 04:33 G	36533955.60	36533955.69	36533955.82	0.0090	0.0073
Mercury	95314-09-18 08:24 G	36534043.72	36534043.85	36534044.01	0.0090	0.0062
Mercury	95314-12-15 12:00 G	36534131.86	36534132.00	36534132.18	0.0090	0.0051
Mercury	95315-03-13 15:50 G	36534220.00	36534220.16	36534220.35	0.0090	0.0040
Mercury	95315-06-09 19:41 G	36534308.15	36534308.32	36534308.52	0.0090	0.0029
Mercury	95315-09-05 23:31 G	36534396.30	36534396.48	36534396.68	0.0090	0.0018
Mercury	95315-12-03 03:21 G	36534484.45	36534484.64	36534484.84	0.0090	0.0006
Mercury	95316-02-29 07:12 G	36534572.60	36534572.80	36534572.99	0.0090	0.0005
Mercury	95316-05-27 10:48 G	36534660.76	36534660.95	36534661.14	0.0090	0.0016
Mercury	95316-08-23 14:24 G	36534748.92	36534749.10	36534749.29	0.0090	0.0027
Mercury	95316-11-19 18:00 G	36534837.08	36534837.25	36534837.44	0.0090	0.0038
Mercury	95317-02-15 21:36 G	36534925.25	36534925.40	36534925.58	0.0090	0.0049
Mercury	95317-05-15 01:12 G	36535013.42	36535013.55	36535013.71	0.0090	0.0060
Mercury	95317-08-11 04:48 G	36535101.60	36535101.70	36535101.84	0.0090	0.0071
Mercury	95317-11-07 08:24 G	36535189.79	36535189.85	36535189.95	0.0090	0.0082
Venus	95345-09-14 19:26 G	36545363.30	36545363.31	36545363.35	0.0089	0.0089
Venus	95346-04-28 07:55 G	36545588.75	36545588.83	36545588.96	0.0089	0.0079

Venus	95346-12-09 20:53 G	36545814.25	36545814.37	36545814.53	0.0089	0.0068
Venus	95347-07-23 09:50 G	36546039.76	36546039.91	36546040.09	0.0089	0.0057
Venus	95348-03-04 22:33 G	36546265.27	36546265.44	36546265.64	0.0089	0.0046
Venus	95348-10-16 11:17 G	36546490.79	36546490.97	36546491.19	0.0089	0.0036
Venus	95349-05-30 00:29 G	36546716.31	36546716.52	36546716.73	0.0089	0.0024
Venus	95350-01-10 13:26 G	36546941.84	36546942.06	36546942.27	0.0089	0.0014
Venus	95350-08-24 02:09 G	36547167.37	36547167.59	36547167.80	0.0089	0.0003
Venus	95351-04-06 14:38 G	36547392.90	36547393.11	36547393.33	0.0089	0.0008
Moon	95351-08-28 15:07 G	36547537.00	36547537.13	36547537.31	0.0089	0.0070
Earth	95351-08-28 17:02 G	36547537.09	36547537.21	36547537.38	0.0089	0.0074 *
Venus	95351-11-18 03:21 G	36547618.44	36547618.64	36547618.86	0.0089	0.0019
Venus	95352-06-30 16:19 G	36547843.98	36547844.18	36547844.39	0.0089	0.0030
Earth	95352-08-30 03:36 G	36547904.48	36547904.65	36547904.88	0.0089	0.0056
Moon	95352-08-30 05:02 G	36547904.53	36547904.71	36547904.92	0.0089	0.0059 *
Venus	95353-02-11 05:02 G	36548069.52	36548069.71	36548069.91	0.0089	0.0040
Earth	95353-09-01 14:38 G	36548271.89	36548272.11	36548272.36	0.0089	0.0037
Moon	95353-09-01 15:50 G	36548271.93	36548272.16	36548272.39	0.0089	0.0033 *
Venus	95353-09-24 17:31 G	36548295.07	36548295.23	36548295.43	0.0089	0.0051
Venus	95354-05-08 06:14 G	36548520.62	36548520.76	36548520.94	0.0089	0.0062
Moon	95354-09-04 00:00 G	36548639.25	36548639.50	36548639.76	0.0089	0.0022
Earth	95354-09-04 01:41 G	36548639.33	36548639.57	36548639.82	0.0089	0.0018 *
Venus	95354-12-19 19:12 G	36548746.19	36548746.30	36548746.44	0.0089	0.0073
Venus	95355-08-02 07:55 G	36548971.77	36548971.83	36548971.93	0.0089	0.0083
Earth	95355-09-06 12:29 G	36549006.76	36549007.02	36549007.27	0.0089	0.0001
Moon	95355-09-06 14:53 G	36549006.87	36549007.12	36549007.37	0.0089	0.0005 *
Moon	95356-09-07 19:26 G	36549374.07	36549374.31	36549374.58	0.0089	0.0014
Earth	95356-09-07 23:17 G	36549374.22	36549374.47	36549374.72	0.0089	0.0018 *
Earth	95357-09-10 09:21 G	36549741.68	36549741.89	36549742.14	0.0089	0.0037
Moon	95357-09-10 12:57 G	36549741.83	36549742.04	36549742.28	0.0089	0.0041 *
Moon	95358-09-12 17:02 G	36550109.01	36550109.21	36550109.43	0.0089	0.0050

Earth	95358-09-12 20:24 G	36550109.17	36550109.35	36550109.57	0.0089	0.0055 *
Earth	95359-09-15 07:12 G	36550476.68	36550476.80	36550476.97	0.0089	0.0073
Moon	95359-09-15 10:05 G	36550476.80	36550476.92	36550477.05	0.0089	0.0077 *
Moon	95360-09-16 16:19 G	36550844.15	36550844.18	36550844.25	0.0089	0.0087
Mars	95390-12-26 16:33 G	36561901.86	36561902.19	36561902.53	0.0088	0.0016
Mercury	95395-01-10 10:19 G	36563377.93	36563377.93	36563377.96	0.0088	0.0087
Mercury	95395-04-08 11:31 G	36563465.94	36563465.98	36563466.05	0.0088	0.0080
Mercury	95395-07-05 12:57 G	36563553.98	36563554.04	36563554.12	0.0088	0.0073
Mercury	95395-10-01 14:09 G	36563642.02	36563642.09	36563642.19	0.0088	0.0066
Mercury	95395-12-28 15:36 G	36563730.06	36563730.15	36563730.25	0.0088	0.0059
Mercury	95396-03-25 16:48 G	36563818.10	36563818.20	36563818.31	0.0088	0.0052
Mercury	95396-06-21 18:00 G	36563906.15	36563906.25	36563906.37	0.0088	0.0045
Mercury	95396-09-17 19:26 G	36563994.19	36563994.31	36563994.43	0.0088	0.0038
Mercury	95396-12-14 20:38 G	36564082.24	36564082.36	36564082.49	0.0088	0.0031
Mercury	95397-03-12 21:50 G	36564170.29	36564170.41	36564170.54	0.0088	0.0024
Mercury	95397-06-08 23:17 G	36564258.34	36564258.47	36564258.60	0.0088	0.0017
Mercury	95397-09-05 00:29 G	36564346.39	36564346.52	36564346.66	0.0088	0.0010
Mercury	95397-12-02 01:55 G	36564434.44	36564434.58	36564434.71	0.0088	0.0003
Mercury	95398-02-28 03:07 G	36564522.50	36564522.63	36564522.76	0.0088	0.0005
Mercury	95398-05-27 04:19 G	36564610.55	36564610.68	36564610.81	0.0088	0.0012
Mercury	95398-08-23 05:31 G	36564698.61	36564698.73	36564698.87	0.0088	0.0019
Mercury	95398-11-19 06:57 G	36564786.66	36564786.79	36564786.92	0.0088	0.0026
Mercury	95399-02-15 08:09 G	36564874.72	36564874.84	36564874.97	0.0088	0.0033
Mercury	95399-05-14 09:21 G	36564962.78	36564962.89	36564963.01	0.0088	0.0040
Mercury	95399-08-10 10:48 G	36565050.84	36565050.95	36565051.06	0.0088	0.0047
Mercury	95399-11-06 12:00 G	36565138.90	36565139.00	36565139.11	0.0088	0.0054
Mercury	95400-02-02 13:12 G	36565226.96	36565227.05	36565227.15	0.0088	0.0061
Mercury	95400-05-01 14:38 G	36565315.03	36565315.11	36565315.19	0.0088	0.0068
Mercury	95400-07-28 16:05 G	36565403.10	36565403.17	36565403.23	0.0088	0.0075
Mercury	95400-10-24 16:48 G	36565491.18	36565491.20	36565491.26	0.0088	0.0083



Venus	95429-01-26 23:17 G	36575812.42	36575812.47	36575812.52	0.0088	0.0085
Venus	95429-09-09 12:00 G	36576037.91	36576038.00	36576038.14	0.0088	0.0075
Venus	95430-04-23 01:41 G	36576263.42	36576263.57	36576263.73	0.0088	0.0064
Venus	95430-12-04 14:53 G	36576488.96	36576489.12	36576489.31	0.0088	0.0054
Venus	95431-07-18 04:19 G	36576714.49	36576714.68	36576714.88	0.0088	0.0043
Venus	95432-02-28 17:17 G	36576940.03	36576940.22	36576940.44	0.0088	0.0033
Venus	95432-10-11 06:43 G	36577165.57	36577165.78	36577166.00	0.0088	0.0022
Venus	95433-05-24 20:09 G	36577391.12	36577391.34	36577391.56	0.0088	0.0011
Venus	95434-01-05 09:21 G	36577616.67	36577616.89	36577617.12	0.0088	0.0002
Moon	95434-02-27 20:09 G	36577670.31	36577670.34	36577670.43	0.0088	0.0086
Earth	95434-02-27 20:53 G	36577670.33	36577670.37	36577670.43	0.0088	0.0086 *
Venus	95434-08-18 22:33 G	36577842.23	36577842.44	36577842.67	0.0088	0.0010
Earth	95435-03-02 09:21 G	36578037.74	36578037.89	36578038.07	0.0088	0.0069
Moon	95435-03-02 10:19 G	36578037.80	36578037.93	36578038.11	0.0088	0.0070 *
Venus	95435-04-01 12:00 G	36578067.78	36578068.00	36578068.21	0.0088	0.0021
Venus	95435-11-13 00:57 G	36578293.34	36578293.54	36578293.76	0.0088	0.0032
Moon	95436-03-03 19:41 G	36578405.12	36578405.32	36578405.57	0.0088	0.0050
Earth	95436-03-03 22:05 G	36578405.22	36578405.42	36578405.65	0.0088	0.0050 *
Venus	95436-06-25 14:09 G	36578518.91	36578519.09	36578519.30	0.0088	0.0042
Venus	95437-02-06 03:36 G	36578744.48	36578744.65	36578744.84	0.0088	0.0053
Earth	95437-03-06 10:33 G	36578772.72	36578772.94	36578773.21	0.0088	0.0033
Moon	95437-03-06 14:24 G	36578772.86	36578773.10	36578773.34	0.0088	0.0033 *
Venus	95437-09-19 16:33 G	36578970.05	36578970.19	36578970.36	0.0088	0.0064
Moon	95438-03-08 20:24 G	36579140.09	36579140.35	36579140.61	0.0088	0.0013
Earth	95438-03-08 23:45 G	36579140.24	36579140.49	36579140.75	0.0088	0.0014 *
Venus	95438-05-03 06:14 G	36579195.64	36579195.76	36579195.88	0.0088	0.0074
Venus	95438-12-14 18:57 G	36579421.25	36579421.29	36579421.38	0.0088	0.0085
Earth	95439-03-11 12:14 G	36579507.75	36579508.01	36579508.28	0.0088	0.0005
Moon	95439-03-11 16:05 G	36579507.91	36579508.17	36579508.43	0.0088	0.0003 *
Moon	95440-03-12 21:50 G	36579875.17	36579875.41	36579875.66	0.0088	0.0025

Earth	95440-03-13 00:57 G	36579875.30	36579875.54	36579875.80	0.0088	0.0023	*
Earth	95441-03-15 13:26 G	36580242.84	36580243.06	36580243.30	0.0088	0.0042	
Moon	95441-03-15 15:50 G	36580242.93	36580243.16	36580243.41	0.0088	0.0040	*
Moon	95442-03-18 00:00 G	36580610.34	36580610.50	36580610.70	0.0088	0.0063	
Earth	95442-03-18 02:09 G	36580610.40	36580610.59	36580610.78	0.0088	0.0060	*
Moon	95443-03-20 13:55 G	36580977.97	36580978.08	36580978.25	0.0089	0.0077	
Earth	95443-03-20 13:55 G	36580977.99	36580978.08	36580978.23	0.0089	0.0079	*
Jupiter	95449-04-13 02:53 G	36583193.43	36583193.62	36583193.94	0.0089	0.0079	
Mars	95472-11-13 03:50 G	36591808.49	36591808.66	36591808.89	0.0090	0.0064	
Mars	95474-10-07 21:07 G	36592502.12	36592502.38	36592502.64	0.0090	0.0041	
Mercury	95478-09-24 19:55 G	36593950.32	36593950.33	36593950.37	0.0090	0.0089	
Mercury	95478-12-21 23:45 G	36594038.41	36594038.49	36594038.60	0.0090	0.0078	
Mercury	95479-03-20 03:21 G	36594126.53	36594126.64	36594126.79	0.0090	0.0067	
Mercury	95479-06-16 07:12 G	36594214.66	36594214.80	36594214.97	0.0090	0.0056	
Mercury	95479-09-12 11:02 G	36594302.80	36594302.96	36594303.14	0.0090	0.0045	
Mercury	95479-12-09 14:53 G	36594390.95	36594391.12	36594391.31	0.0090	0.0034	
Mercury	95480-03-06 18:43 G	36594479.10	36594479.28	36594479.47	0.0090	0.0022	
Mercury	95480-06-02 22:33 G	36594567.25	36594567.44	36594567.63	0.0090	0.0011	
Mercury	95480-08-30 02:24 G	36594655.40	36594655.60	36594655.79	0.0090	0.0002	
Mercury	95480-11-26 06:00 G	36594743.56	36594743.75	36594743.94	0.0090	0.0011	
Mercury	95481-02-22 09:36 G	36594831.72	36594831.90	36594832.09	0.0090	0.0022	
Mercury	95481-05-21 13:12 G	36594919.88	36594920.05	36594920.24	0.0090	0.0033	
Mercury	95481-08-17 16:48 G	36595008.04	36595008.20	36595008.38	0.0090	0.0044	
Mercury	95481-11-13 20:24 G	36595096.21	36595096.35	36595096.52	0.0090	0.0055	
Mercury	95482-02-10 00:00 G	36595184.39	36595184.50	36595184.65	0.0090	0.0066	
Mercury	95482-05-09 04:05 G	36595272.57	36595272.67	36595272.77	0.0090	0.0076	
Mercury	95482-08-05 07:26 G	36595360.78	36595360.81	36595360.87	0.0090	0.0087	
Venus	95510-08-01 19:55 G	36605583.25	36605583.33	36605583.43	0.0089	0.0081	
Venus	95511-03-15 08:09 G	36605808.73	36605808.84	36605809.00	0.0089	0.0071	
Venus	95511-10-26 21:07 G	36606034.24	36606034.38	36606034.56	0.0089	0.0060	

Venus	95512-06-08 10:19 G	36606259.76	36606259.93	36606260.12	0.0089	0.0049
Venus	95513-01-19 23:17 G	36606485.27	36606485.47	36606485.67	0.0089	0.0038
Venus	95513-09-02 11:45 G	36606710.79	36606710.99	36606711.21	0.0089	0.0027
Venus	95514-04-16 00:43 G	36606936.32	36606936.53	36606936.75	0.0089	0.0016
Venus	95514-11-27 13:41 G	36607161.85	36607162.07	36607162.28	0.0089	0.0006
Venus	95515-07-11 02:24 G	36607387.39	36607387.60	36607387.82	0.0089	0.0005
Moon	95515-08-30 04:33 G	36607437.55	36607437.69	36607437.84	0.0089	0.0075
Earth	95515-08-30 04:19 G	36607437.57	36607437.68	36607437.82	0.0089	0.0077 *
Venus	95516-02-21 15:07 G	36607612.92	36607613.13	36607613.35	0.0089	0.0016
Earth	95516-08-31 14:53 G	36607804.95	36607805.12	36607805.33	0.0089	0.0060
Moon	95516-08-31 16:05 G	36607805.00	36607805.17	36607805.36	0.0089	0.0061 *
Venus	95516-10-04 03:36 G	36607838.46	36607838.65	36607838.87	0.0089	0.0028
Venus	95517-05-17 16:19 G	36608064.00	36608064.18	36608064.40	0.0089	0.0038
Moon	95517-09-02 23:17 G	36608172.25	36608172.47	36608172.72	0.0089	0.0038
Earth	95517-09-03 01:41 G	36608172.37	36608172.57	36608172.82	0.0089	0.0041 *
Venus	95517-12-29 05:31 G	36608289.55	36608289.73	36608289.92	0.0089	0.0048
Venus	95518-08-11 18:00 G	36608515.10	36608515.25	36608515.43	0.0089	0.0059
Earth	95518-09-05 12:43 G	36608539.79	36608540.03	36608540.28	0.0089	0.0023
Moon	95518-09-05 15:36 G	36608539.92	36608540.15	36608540.40	0.0089	0.0025 *
Venus	95519-03-25 06:29 G	36608740.66	36608740.77	36608740.93	0.0089	0.0070
Moon	95519-09-07 20:09 G	36608907.08	36608907.34	36608907.60	0.0089	0.0002
Earth	95519-09-07 23:45 G	36608907.23	36608907.49	36608907.74	0.0089	0.0004 *
Venus	95519-11-05 19:41 G	36608966.24	36608966.32	36608966.42	0.0089	0.0080
Earth	95520-09-09 10:05 G	36609274.67	36609274.92	36609275.17	0.0089	0.0014
Moon	95520-09-09 13:26 G	36609274.82	36609275.06	36609275.33	0.0089	0.0012 *
Moon	95521-09-11 18:00 G	36609642.03	36609642.25	36609642.49	0.0089	0.0034
Earth	95521-09-11 20:38 G	36609642.13	36609642.36	36609642.61	0.0089	0.0032 *
Earth	95522-09-14 07:41 G	36610009.61	36610009.82	36610010.03	0.0089	0.0050
Moon	95522-09-14 09:50 G	36610009.70	36610009.91	36610010.14	0.0089	0.0049 *
Moon	95523-09-16 17:02 G	36610377.08	36610377.21	36610377.38	0.0089	0.0071

Earth	95523-09-16 17:31 G	36610377.10	36610377.23	36610377.42	0.0089	0.0069	*
Moon	95524-09-18 03:50 G	36610744.62	36610744.66	36610744.77	0.0089	0.0085	
Earth	95524-09-18 04:19 G	36610744.66	36610744.68	36610744.77	0.0089	0.0087	*
Mars	95554-08-11 06:00 G	36621663.51	36621663.75	36621664.03	0.0088	0.0057	
Mars	95556-07-07 09:50 G	36622359.70	36622359.91	36622360.19	0.0088	0.0062	
Mercury	95559-10-09 10:19 G	36623548.90	36623548.93	36623548.98	0.0088	0.0083	
Mercury	95560-01-05 11:45 G	36623636.93	36623636.99	36623637.05	0.0088	0.0076	
Mercury	95560-04-02 12:57 G	36623724.96	36623725.04	36623725.12	0.0088	0.0069	
Mercury	95560-06-29 13:55 G	36623813.00	36623813.08	36623813.19	0.0088	0.0063	
Mercury	95560-09-25 15:21 G	36623901.05	36623901.14	36623901.25	0.0088	0.0055	
Mercury	95560-12-22 16:33 G	36623989.09	36623989.19	36623989.31	0.0088	0.0049	
Mercury	95561-03-20 17:45 G	36624077.14	36624077.24	36624077.37	0.0088	0.0042	
Mercury	95561-06-16 19:12 G	36624165.18	36624165.30	36624165.43	0.0088	0.0034	
Mercury	95561-09-12 20:24 G	36624253.23	36624253.35	36624253.48	0.0088	0.0028	
Mercury	95561-12-09 21:36 G	36624341.28	36624341.40	36624341.54	0.0088	0.0021	
Mercury	95562-03-07 23:02 G	36624429.33	36624429.46	36624429.59	0.0088	0.0013	
Mercury	95562-06-04 00:14 G	36624517.38	36624517.51	36624517.65	0.0088	0.0007	
Mercury	95562-08-31 01:40 G	36624605.43	36624605.57	36624605.70	0.0088	0.0003	
Mercury	95562-11-27 02:52 G	36624693.49	36624693.62	36624693.75	0.0088	0.0008	
Mercury	95563-02-23 04:04 G	36624781.54	36624781.67	36624781.80	0.0088	0.0015	
Mercury	95563-05-22 05:16 G	36624869.60	36624869.72	36624869.85	0.0088	0.0022	
Mercury	95563-08-18 06:43 G	36624957.65	36624957.78	36624957.90	0.0088	0.0029	
Mercury	95563-11-14 07:55 G	36625045.71	36625045.83	36625045.95	0.0088	0.0036	
Mercury	95564-02-10 09:07 G	36625133.77	36625133.88	36625134.00	0.0088	0.0043	
Mercury	95564-05-08 10:33 G	36625221.83	36625221.94	36625222.05	0.0088	0.0050	
Mercury	95564-08-04 11:45 G	36625309.89	36625309.99	36625310.09	0.0088	0.0057	
Mercury	95564-10-31 13:12 G	36625397.96	36625398.05	36625398.14	0.0088	0.0064	
Mercury	95565-01-27 14:09 G	36625486.03	36625486.09	36625486.18	0.0088	0.0072	
Mercury	95565-04-25 15:21 G	36625574.10	36625574.14	36625574.21	0.0088	0.0079	
Mercury	95565-07-22 16:48 G	36625662.18	36625662.20	36625662.24	0.0088	0.0086	

Venus	95593-12-12 22:48 G	36636032.37	36636032.45	36636032.57	0.0088	0.0078
Venus	95594-07-26 12:14 G	36636257.88	36636258.01	36636258.16	0.0088	0.0067
Venus	95595-03-09 01:12 G	36636483.40	36636483.55	36636483.74	0.0088	0.0057
Venus	95595-10-20 14:38 G	36636708.93	36636709.11	36636709.31	0.0088	0.0046
Venus	95596-06-02 04:04 G	36636934.47	36636934.67	36636934.88	0.0088	0.0036
Venus	95597-01-13 17:16 G	36637160.01	36637160.22	36637160.44	0.0088	0.0025
Venus	95597-08-27 06:28 G	36637385.56	36637385.77	36637386.00	0.0088	0.0015
Moon	95598-02-28 07:12 G	36637570.77	36637570.80	36637570.87	0.0088	0.0087
Venus	95598-04-09 19:55 G	36637611.11	36637611.33	36637611.55	0.0088	0.0004
Venus	95598-11-21 09:07 G	36637836.66	36637836.88	36637837.10	0.0088	0.0007
Moon	95599-03-02 14:24 G	36637938.00	36637938.10	36637938.25	0.0088	0.0078
Earth	95599-03-02 17:31 G	36637938.11	36637938.23	36637938.40	0.0088	0.0073 *
Venus	95599-07-04 22:04 G	36638062.22	36638062.42	36638062.65	0.0088	0.0019
Venus	95600-02-15 11:31 G	36638287.77	36638287.98	36638288.20	0.0088	0.0029
Earth	95600-03-04 06:43 G	36638305.57	36638305.78	36638305.98	0.0088	0.0055
Moon	95600-03-04 09:36 G	36638305.70	36638305.90	36638306.13	0.0088	0.0050 *
Venus	95600-09-28 00:28 G	36638513.34	36638513.52	36638513.73	0.0088	0.0040
Moon	95601-03-06 15:21 G	36638672.92	36638673.14	36638673.38	0.0088	0.0042
Earth	95601-03-06 19:12 G	36638673.07	36638673.30	36638673.55	0.0088	0.0036 *
Venus	95601-05-11 14:09 G	36638738.90	36638739.09	36638739.27	0.0088	0.0050
Venus	95601-12-23 03:07 G	36638964.48	36638964.63	36638964.81	0.0088	0.0061
Earth	95602-03-09 07:40 G	36639040.57	36639040.82	36639041.08	0.0088	0.0018
Moon	95602-03-09 10:48 G	36639040.70	36639040.95	36639041.22	0.0088	0.0014 *
Venus	95602-08-05 16:04 G	36639190.07	36639190.17	36639190.33	0.0088	0.0072
Moon	95603-03-11 17:45 G	36639407.99	36639408.24	36639408.50	0.0088	0.0004
Earth	95603-03-11 20:38 G	36639408.10	36639408.36	36639408.62	0.0088	0.0000 *
Venus	95603-03-19 05:31 G	36639415.66	36639415.73	36639415.83	0.0088	0.0082
Earth	95604-03-13 09:21 G	36639775.63	36639775.89	36639776.14	0.0088	0.0019
Moon	95604-03-13 10:48 G	36639775.70	36639775.95	36639776.22	0.0088	0.0024 *
Moon	95605-03-15 21:07 G	36640143.17	36640143.38	36640143.63	0.0088	0.0034

Earth	95605-03-15 21:36 G	36640143.18	36640143.40	36640143.65	0.0088	0.0037	*
Moon	95606-03-18 09:50 G	36640510.72	36640510.91	36640511.12	0.0088	0.0060	
Earth	95606-03-18 10:04 G	36640510.74	36640510.92	36640511.14	0.0088	0.0056	*
Earth	95607-03-20 22:48 G	36640878.32	36640878.45	36640878.60	0.0088	0.0074	
Moon	95607-03-21 00:28 G	36640878.39	36640878.52	36640878.70	0.0088	0.0070	*
Jupiter	95615-06-17 04:19 G	36643888.28	36643888.68	36643889.12	0.0089	0.0058	
Mars	95638-05-24 10:48 G	36652265.66	36652265.95	36652266.24	0.0090	0.0004	
Mercury	95643-06-22 18:28 G	36654121.22	36654121.27	36654121.35	0.0090	0.0084	
Mercury	95643-09-18 22:04 G	36654209.33	36654209.42	36654209.55	0.0090	0.0073	
Mercury	95643-12-16 01:55 G	36654297.46	36654297.58	36654297.74	0.0090	0.0062	
Mercury	95644-03-13 05:45 G	36654385.59	36654385.74	36654385.92	0.0090	0.0051	
Mercury	95644-06-09 09:36 G	36654473.74	36654473.90	36654474.09	0.0090	0.0040	
Mercury	95644-09-05 13:26 G	36654561.88	36654562.06	36654562.25	0.0090	0.0028	
Mercury	95644-12-02 17:16 G	36654650.03	36654650.22	36654650.42	0.0090	0.0017	
Mercury	95645-02-28 21:07 G	36654738.19	36654738.38	36654738.57	0.0090	0.0006	
Mercury	95645-05-28 00:43 G	36654826.34	36654826.53	36654826.73	0.0090	0.0005	
Mercury	95645-08-24 04:33 G	36654914.50	36654914.69	36654914.88	0.0090	0.0016	
Mercury	95645-11-20 08:09 G	36655002.66	36655002.84	36655003.03	0.0090	0.0027	
Mercury	95646-02-16 11:45 G	36655090.82	36655090.99	36655091.18	0.0090	0.0038	
Mercury	95646-05-15 15:21 G	36655178.99	36655179.14	36655179.32	0.0090	0.0049	
Mercury	95646-08-11 18:57 G	36655267.16	36655267.29	36655267.45	0.0090	0.0060	
Mercury	95646-11-07 22:33 G	36655355.34	36655355.44	36655355.58	0.0090	0.0071	
Mercury	95647-02-04 02:09 G	36655443.53	36655443.59	36655443.69	0.0090	0.0082	
Venus	95674-11-03 06:57 G	36665577.73	36665577.79	36665577.88	0.0089	0.0084	
Venus	95675-06-16 19:26 G	36665803.21	36665803.31	36665803.46	0.0089	0.0074	
Venus	95676-01-28 08:24 G	36666028.71	36666028.85	36666029.02	0.0089	0.0063	
Venus	95676-09-09 21:21 G	36666254.22	36666254.39	36666254.57	0.0089	0.0052	
Venus	95677-04-23 10:19 G	36666479.73	36666479.93	36666480.12	0.0089	0.0041	
Venus	95677-12-04 22:48 G	36666705.25	36666705.45	36666705.66	0.0089	0.0030	
Venus	95678-07-18 11:45 G	36666930.78	36666930.99	36666931.21	0.0089	0.0019	

Venus	95679-03-01 00:28 G	36667156.31	36667156.52	36667156.74	0.0089	0.0009
Earth	95679-08-29 14:09 G	36667338.02	36667338.09	36667338.21	0.0089	0.0082
Moon	95679-08-29 16:04 G	36667338.13	36667338.17	36667338.27	0.0089	0.0086 *
Venus	95679-10-12 13:26 G	36667381.84	36667382.06	36667382.28	0.0089	0.0003
Venus	95680-05-25 02:09 G	36667607.38	36667607.59	36667607.81	0.0089	0.0013
Moon	95680-08-30 22:33 G	36667705.27	36667705.44	36667705.65	0.0089	0.0061
Earth	95680-08-31 00:57 G	36667705.39	36667705.54	36667705.75	0.0089	0.0065 *
Venus	95681-01-05 14:52 G	36667832.92	36667833.12	36667833.34	0.0089	0.0024
Venus	95681-08-19 03:36 G	36668058.46	36668058.65	36668058.86	0.0089	0.0035
Earth	95681-09-02 12:14 G	36668072.80	36668073.01	36668073.24	0.0089	0.0046
Moon	95681-09-02 15:36 G	36668072.96	36668073.15	36668073.38	0.0089	0.0050 *
Venus	95682-04-01 16:33 G	36668284.01	36668284.19	36668284.38	0.0089	0.0046
Moon	95682-09-04 19:40 G	36668440.09	36668440.32	36668440.58	0.0089	0.0024
Earth	95682-09-04 23:16 G	36668440.24	36668440.47	36668440.72	0.0089	0.0027 *
Venus	95682-11-13 05:16 G	36668509.56	36668509.72	36668509.90	0.0089	0.0056
Venus	95683-06-26 18:00 G	36668735.12	36668735.25	36668735.41	0.0089	0.0067
Earth	95683-09-07 09:50 G	36668807.67	36668807.91	36668808.17	0.0089	0.0009
Moon	95683-09-07 13:12 G	36668807.80	36668808.05	36668808.31	0.0089	0.0013 *
Venus	95684-02-07 07:12 G	36668960.69	36668960.80	36668960.90	0.0089	0.0077
Moon	95684-09-08 18:14 G	36669175.02	36669175.26	36669175.51	0.0089	0.0013
Earth	95684-09-08 20:38 G	36669175.12	36669175.36	36669175.62	0.0089	0.0010 *
Venus	95684-09-19 19:26 G	36669186.30	36669186.31	36669186.36	0.0089	0.0088
Earth	95685-09-11 07:26 G	36669542.58	36669542.81	36669543.06	0.0089	0.0028
Moon	95685-09-11 08:52 G	36669542.62	36669542.87	36669543.12	0.0089	0.0024 *
Moon	95686-09-13 17:16 G	36669910.04	36669910.22	36669910.44	0.0089	0.0050
Earth	95686-09-13 18:00 G	36669910.04	36669910.25	36669910.48	0.0089	0.0046 *
Moon	95687-09-16 03:36 G	36670277.47	36670277.65	36670277.85	0.0089	0.0060
Earth	95687-09-16 04:48 G	36670277.53	36670277.70	36670277.88	0.0089	0.0064 *
Earth	95688-09-17 15:21 G	36670645.05	36670645.14	36670645.24	0.0089	0.0082
Moon	95688-09-17 17:16 G	36670645.18	36670645.22	36670645.31	0.0089	0.0086 *

Mars	95720-02-19 23:02 G	36682121.13	36682121.46	36682121.80	0.0088	0.0019
Mercury	95724-04-09 08:52 G	36683631.86	36683631.87	36683631.90	0.0088	0.0087
Mercury	95724-07-06 10:04 G	36683719.88	36683719.92	36683719.98	0.0088	0.0080
Mercury	95724-10-02 11:31 G	36683807.91	36683807.98	36683808.05	0.0088	0.0073
Mercury	95724-12-29 12:43 G	36683895.95	36683896.03	36683896.12	0.0088	0.0066
Mercury	95725-03-27 13:55 G	36683983.99	36683984.08	36683984.18	0.0088	0.0059
Mercury	95725-06-23 15:21 G	36684072.03	36684072.14	36684072.24	0.0088	0.0052
Mercury	95725-09-19 16:33 G	36684160.08	36684160.19	36684160.30	0.0088	0.0045
Mercury	95725-12-16 17:45 G	36684248.12	36684248.24	36684248.36	0.0088	0.0038
Mercury	95726-03-14 18:57 G	36684336.17	36684336.29	36684336.42	0.0088	0.0031
Mercury	95726-06-10 20:24 G	36684424.22	36684424.35	36684424.47	0.0088	0.0024
Mercury	95726-09-06 21:36 G	36684512.27	36684512.40	36684512.53	0.0088	0.0017
Mercury	95726-12-03 22:48 G	36684600.32	36684600.45	36684600.58	0.0088	0.0010
Mercury	95727-03-02 00:00 G	36684688.37	36684688.50	36684688.64	0.0088	0.0004
Mercury	95727-05-29 01:26 G	36684776.43	36684776.56	36684776.69	0.0088	0.0004
Mercury	95727-08-25 02:38 G	36684864.48	36684864.61	36684864.74	0.0088	0.0011
Mercury	95727-11-21 03:50 G	36684952.53	36684952.66	36684952.79	0.0088	0.0018
Mercury	95728-02-17 05:16 G	36685040.59	36685040.72	36685040.84	0.0088	0.0025
Mercury	95728-05-15 06:28 G	36685128.65	36685128.77	36685128.89	0.0088	0.0032
Mercury	95728-08-11 07:40 G	36685216.70	36685216.82	36685216.94	0.0088	0.0039
Mercury	95728-11-07 09:07 G	36685304.76	36685304.88	36685304.99	0.0088	0.0046
Mercury	95729-02-03 10:19 G	36685392.83	36685392.93	36685393.04	0.0088	0.0053
Mercury	95729-05-02 11:16 G	36685480.89	36685480.97	36685481.08	0.0088	0.0061
Mercury	95729-07-29 12:43 G	36685568.95	36685569.03	36685569.12	0.0088	0.0067
Mercury	95729-10-25 13:55 G	36685657.02	36685657.08	36685657.16	0.0088	0.0075
Mercury	95730-01-21 15:07 G	36685745.10	36685745.13	36685745.19	0.0088	0.0082
Venus	95758-03-17 08:38 G	36696026.80	36696026.86	36696026.98	0.0088	0.0081
Venus	95758-10-28 22:19 G	36696252.31	36696252.43	36696252.58	0.0088	0.0070
Venus	95759-06-11 11:31 G	36696477.84	36696477.98	36696478.16	0.0088	0.0060
Venus	95760-01-23 00:57 G	36696703.37	36696703.54	36696703.74	0.0088	0.0049



Venus	95760-09-04 14:24 G	36696928.91	36696929.10	36696929.31	0.0088	0.0038
Venus	95761-04-18 03:21 G	36697154.45	36697154.64	36697154.87	0.0088	0.0029
Venus	95761-11-29 17:02 G	36697379.99	36697380.21	36697380.43	0.0088	0.0017
Venus	95762-07-13 06:14 G	36697605.54	36697605.76	36697605.99	0.0088	0.0007
Venus	95763-02-23 19:26 G	36697831.09	36697831.31	36697831.54	0.0088	0.0004
Earth	95763-03-03 01:55 G	36697838.48	36697838.58	36697838.72	0.0088	0.0078
Moon	95763-03-03 05:31 G	36697838.64	36697838.73	36697838.87	0.0088	0.0079 *
Venus	95763-10-07 08:24 G	36698056.64	36698056.85	36698057.08	0.0088	0.0016
Moon	95764-03-04 11:16 G	36698205.79	36698205.97	36698206.18	0.0088	0.0059
Earth	95764-03-04 14:38 G	36698205.93	36698206.11	36698206.32	0.0088	0.0059 *
Venus	95764-05-19 21:50 G	36698282.20	36698282.41	36698282.63	0.0088	0.0026
Venus	95764-12-31 11:02 G	36698507.77	36698507.96	36698508.17	0.0088	0.0036
Earth	95765-03-07 02:52 G	36698573.41	36698573.62	36698573.87	0.0088	0.0041
Moon	95765-03-07 06:14 G	36698573.54	36698573.76	36698574.01	0.0088	0.0042 *
Venus	95765-08-14 00:00 G	36698733.33	36698733.50	36698733.71	0.0088	0.0048
Moon	95766-03-09 14:09 G	36698940.85	36698941.09	36698941.34	0.0088	0.0022
Earth	95766-03-09 15:36 G	36698940.91	36698941.15	36698941.42	0.0088	0.0023 *
Venus	95766-03-27 13:26 G	36698958.90	36698959.06	36698959.24	0.0088	0.0058
Venus	95766-11-08 02:24 G	36699184.48	36699184.60	36699184.76	0.0088	0.0069
Earth	95767-03-12 04:33 G	36699308.43	36699308.69	36699308.95	0.0088	0.0004
Moon	95767-03-12 05:45 G	36699308.47	36699308.74	36699309.01	0.0088	0.0005 *
Venus	95767-06-21 15:50 G	36699410.07	36699410.16	36699410.27	0.0088	0.0079
Earth	95768-03-13 17:02 G	36699675.96	36699676.21	36699676.48	0.0088	0.0014
Moon	95768-03-13 17:16 G	36699675.98	36699676.22	36699676.48	0.0088	0.0015 *
Moon	95769-03-16 03:50 G	36700043.42	36700043.66	36700043.92	0.0088	0.0031
Earth	95769-03-16 05:45 G	36700043.51	36700043.74	36700043.99	0.0088	0.0033 *
Earth	95770-03-18 18:28 G	36700411.06	36700411.27	36700411.49	0.0088	0.0051
Moon	95770-03-18 20:52 G	36700411.16	36700411.37	36700411.58	0.0088	0.0051 *
Moon	95771-03-21 03:07 G	36700778.50	36700778.63	36700778.83	0.0088	0.0070
Earth	95771-03-21 06:43 G	36700778.65	36700778.78	36700778.97	0.0088	0.0070 *

Earth	95772-03-22 19:12 G	36701146.29	36701146.30	36701146.37	0.0088	0.0088
Moon	95772-03-22 23:02 G	36701146.45	36701146.46	36701146.51	0.0088	0.0088
Mars	95802-01-08 23:31 G	36712029.23	36712029.48	36712029.77	0.0090	0.0035
Mars	95803-12-03 16:33 G	36712723.02	36712723.19	36712723.38	0.0090	0.0070
Mercury	95808-03-20 17:02 G	36714292.12	36714292.21	36714292.30	0.0090	0.0079
Mercury	95808-06-16 20:38 G	36714380.24	36714380.36	36714380.50	0.0090	0.0068
Mercury	95808-09-13 00:28 G	36714468.38	36714468.52	36714468.68	0.0090	0.0057
Mercury	95808-12-10 04:19 G	36714556.52	36714556.68	36714556.85	0.0090	0.0046
Mercury	95809-03-08 07:55 G	36714644.66	36714644.83	36714645.02	0.0090	0.0035
Mercury	95809-06-04 11:45 G	36714732.81	36714732.99	36714733.19	0.0090	0.0024
Mercury	95809-08-31 15:36 G	36714820.96	36714821.15	36714821.35	0.0090	0.0013
Mercury	95809-11-27 19:26 G	36714909.12	36714909.31	36714909.51	0.0090	0.0002
Mercury	95810-02-23 23:02 G	36714997.27	36714997.46	36714997.66	0.0090	0.0010
Mercury	95810-05-23 02:52 G	36715085.43	36715085.62	36715085.81	0.0090	0.0021
Mercury	95810-08-19 06:28 G	36715173.60	36715173.77	36715173.96	0.0090	0.0032
Mercury	95810-11-15 10:04 G	36715261.76	36715261.92	36715262.10	0.0090	0.0043
Mercury	95811-02-11 13:40 G	36715349.93	36715350.07	36715350.24	0.0090	0.0054
Mercury	95811-05-10 17:16 G	36715438.11	36715438.22	36715438.38	0.0090	0.0065
Mercury	95811-08-06 21:21 G	36715526.29	36715526.39	36715526.50	0.0090	0.0075
Mercury	95811-11-03 00:57 G	36715614.50	36715614.54	36715614.60	0.0090	0.0086
Venus	95839-02-06 18:14 G	36725572.22	36725572.26	36725572.33	0.0089	0.0087
Venus	95839-09-20 07:12 G	36725797.69	36725797.80	36725797.92	0.0089	0.0076
Venus	95840-05-02 19:26 G	36726023.19	36726023.31	36726023.48	0.0089	0.0066
Venus	95840-12-14 08:24 G	36726248.69	36726248.85	36726249.03	0.0089	0.0055
Venus	95841-07-27 21:21 G	36726474.20	36726474.39	36726474.58	0.0089	0.0044
Venus	95842-03-10 09:50 G	36726699.72	36726699.91	36726700.12	0.0089	0.0033
Venus	95842-10-21 22:33 G	36726925.24	36726925.44	36726925.66	0.0089	0.0022
Venus	95843-06-04 11:31 G	36727150.77	36727150.98	36727151.20	0.0089	0.0011
Earth	95843-08-31 00:28 G	36727238.47	36727238.52	36727238.59	0.0089	0.0087
Venus	95844-01-16 00:28 G	36727376.30	36727376.52	36727376.74	0.0089	0.0001

Venus	95844-08-28 13:12 G	36727601.83	36727602.05	36727602.26	0.0089	0.0010
Earth	95844-09-01 11:16 G	36727605.82	36727605.97	36727606.14	0.0089	0.0069
Moon	95844-09-01 14:24 G	36727605.95	36727606.10	36727606.29	0.0089	0.0065 *
Venus	95845-04-11 01:40 G	36727827.37	36727827.57	36727827.79	0.0089	0.0021
Moon	95845-09-03 18:28 G	36727973.09	36727973.27	36727973.49	0.0089	0.0054
Earth	95845-09-03 22:04 G	36727973.23	36727973.42	36727973.65	0.0089	0.0051 *
Venus	95845-11-22 14:24 G	36728052.91	36728053.10	36728053.32	0.0089	0.0032
Venus	95846-07-06 03:36 G	36728278.46	36728278.65	36728278.84	0.0089	0.0043
Earth	95846-09-06 08:52 G	36728340.65	36728340.87	36728341.12	0.0089	0.0032
Moon	95846-09-06 11:45 G	36728340.76	36728340.99	36728341.25	0.0089	0.0028 *
Venus	95847-02-16 16:04 G	36728504.01	36728504.17	36728504.36	0.0089	0.0054
Moon	95847-09-08 17:45 G	36728708.01	36728708.24	36728708.50	0.0089	0.0017
Earth	95847-09-08 20:09 G	36728708.09	36728708.34	36728708.59	0.0089	0.0013 *
Venus	95847-09-30 04:48 G	36728729.57	36728729.70	36728729.87	0.0089	0.0064
Venus	95848-05-12 17:16 G	36728955.13	36728955.22	36728955.37	0.0089	0.0075
Earth	95848-09-10 06:57 G	36729075.53	36729075.79	36729076.04	0.0089	0.0005
Moon	95848-09-10 08:09 G	36729075.57	36729075.84	36729076.10	0.0089	0.0009 *
Venus	95848-12-24 06:28 G	36729180.72	36729180.77	36729180.84	0.0089	0.0085
Earth	95849-09-12 17:31 G	36729442.99	36729443.23	36729443.48	0.0089	0.0023
Moon	95849-09-12 18:00 G	36729443.02	36729443.25	36729443.50	0.0089	0.0020 *
Moon	95850-09-15 02:24 G	36729810.39	36729810.60	36729810.85	0.0089	0.0045
Earth	95850-09-15 03:50 G	36729810.45	36729810.66	36729810.90	0.0089	0.0042 *
Earth	95851-09-17 14:24 G	36730177.93	36730178.10	36730178.31	0.0089	0.0060
Moon	95851-09-17 16:48 G	36730178.03	36730178.20	36730178.41	0.0089	0.0057 *
Moon	95852-09-18 21:21 G	36730545.32	36730545.39	36730545.52	0.0089	0.0082
Earth	95852-09-19 00:57 G	36730545.45	36730545.54	36730545.69	0.0089	0.0078 *
Mars	95883-10-04 12:00 G	36741882.68	36741883.00	36741883.34	0.0088	0.0023
Mercury	95889-01-05 08:38 G	36743802.83	36743802.86	36743802.90	0.0088	0.0084
Mercury	95889-04-03 09:50 G	36743890.86	36743890.91	36743890.98	0.0088	0.0077
Mercury	95889-06-30 11:02 G	36743978.89	36743978.96	36743979.05	0.0088	0.0070

Mercury	95889-09-26 12:28 G	36744066.93	36744067.02	36744067.11	0.0088	0.0063
Mercury	95889-12-23 13:40 G	36744154.97	36744155.07	36744155.17	0.0088	0.0056
Mercury	95890-03-21 14:52 G	36744243.02	36744243.12	36744243.23	0.0088	0.0049
Mercury	95890-06-17 16:19 G	36744331.06	36744331.18	36744331.29	0.0088	0.0042
Mercury	95890-09-13 17:31 G	36744419.11	36744419.23	36744419.35	0.0088	0.0035
Mercury	95890-12-10 18:28 G	36744507.16	36744507.27	36744507.41	0.0088	0.0029
Mercury	95891-03-08 19:55 G	36744595.20	36744595.33	36744595.46	0.0088	0.0021
Mercury	95891-06-04 21:07 G	36744683.26	36744683.38	36744683.52	0.0088	0.0015
Mercury	95891-08-31 22:33 G	36744771.31	36744771.44	36744771.57	0.0088	0.0007
Mercury	95891-11-27 23:45 G	36744859.36	36744859.49	36744859.62	0.0088	0.0001
Mercury	95892-02-24 00:57 G	36744947.41	36744947.54	36744947.68	0.0088	0.0007
Mercury	95892-05-22 02:09 G	36745035.46	36745035.59	36745035.73	0.0088	0.0014
Mercury	95892-08-18 03:36 G	36745123.52	36745123.65	36745123.78	0.0088	0.0021
Mercury	95892-11-14 04:48 G	36745211.58	36745211.70	36745211.83	0.0088	0.0028
Mercury	95893-02-10 06:00 G	36745299.63	36745299.75	36745299.88	0.0088	0.0035
Mercury	95893-05-09 07:12 G	36745387.69	36745387.80	36745387.92	0.0088	0.0042
Mercury	95893-08-05 08:38 G	36745475.75	36745475.86	36745475.97	0.0088	0.0049
Mercury	95893-11-01 09:50 G	36745563.81	36745563.91	36745564.02	0.0088	0.0056
Mercury	95894-01-28 11:02 G	36745651.88	36745651.96	36745652.06	0.0088	0.0063
Mercury	95894-04-26 12:28 G	36745739.94	36745740.02	36745740.10	0.0088	0.0070
Mercury	95894-07-23 13:40 G	36745828.01	36745828.07	36745828.14	0.0088	0.0077
Mercury	95894-10-19 15:07 G	36745916.09	36745916.13	36745916.16	0.0088	0.0084
Venus	95922-06-20 18:14 G	36756021.22	36756021.26	36756021.35	0.0088	0.0084
Venus	95923-02-01 07:55 G	36756246.72	36756246.83	36756246.96	0.0088	0.0073
Venus	95923-09-14 20:52 G	36756472.24	36756472.37	36756472.55	0.0088	0.0063
Venus	95924-04-27 10:33 G	36756697.77	36756697.94	36756698.13	0.0088	0.0052
Venus	95924-12-09 00:14 G	36756923.32	36756923.51	36756923.71	0.0088	0.0042
Venus	95925-07-22 13:12 G	36757148.86	36757149.05	36757149.27	0.0088	0.0031
Venus	95926-03-05 02:38 G	36757374.40	36757374.61	36757374.83	0.0088	0.0020
Venus	95926-10-16 15:50 G	36757599.94	36757600.16	36757600.39	0.0088	0.0010

Moon	95927-03-04 06:14 G	36757738.66	36757738.76	36757738.90	0.0088	0.0078
Earth	95927-03-04 09:07 G	36757738.82	36757738.88	36757739.00	0.0088	0.0083 *
Venus	95927-05-30 05:16 G	36757825.49	36757825.72	36757825.94	0.0088	0.0001
Venus	95928-01-10 18:28 G	36758051.05	36758051.27	36758051.50	0.0088	0.0012
Earth	95928-03-05 21:36 G	36758106.24	36758106.40	36758106.60	0.0088	0.0064
Moon	95928-03-05 23:45 G	36758106.35	36758106.49	36758106.69	0.0088	0.0069 *
Venus	95928-08-23 07:40 G	36758276.61	36758276.82	36758277.04	0.0088	0.0022
Moon	95929-03-08 08:52 G	36758473.65	36758473.87	36758474.10	0.0088	0.0042
Earth	95929-03-08 10:04 G	36758473.72	36758473.92	36758474.17	0.0088	0.0047 *
Venus	95929-04-05 20:38 G	36758502.17	36758502.36	36758502.58	0.0088	0.0033
Venus	95929-11-17 10:04 G	36758727.73	36758727.92	36758728.12	0.0088	0.0044
Moon	95930-03-10 22:33 G	36758841.21	36758841.44	36758841.71	0.0088	0.0032
Earth	95930-03-10 23:02 G	36758841.22	36758841.46	36758841.71	0.0088	0.0028 *
Venus	95930-06-30 23:02 G	36758953.30	36758953.46	36758953.65	0.0088	0.0055
Venus	95931-02-11 12:14 G	36759178.88	36759179.01	36759179.18	0.0088	0.0065
Earth	95931-03-13 11:31 G	36759208.73	36759208.98	36759209.25	0.0088	0.0010
Moon	95931-03-13 12:43 G	36759208.78	36759209.03	36759209.28	0.0088	0.0005 *
Venus	95931-09-25 01:26 G	36759404.47	36759404.56	36759404.69	0.0088	0.0076
Moon	95932-03-14 22:19 G	36759576.16	36759576.43	36759576.70	0.0088	0.0004
Earth	95932-03-15 00:14 G	36759576.25	36759576.51	36759576.77	0.0088	0.0009 *
Venus	95932-05-07 14:24 G	36759630.08	36759630.10	36759630.18	0.0088	0.0087
Earth	95933-03-17 12:28 G	36759943.79	36759944.02	36759944.28	0.0088	0.0028
Moon	95933-03-17 15:36 G	36759943.93	36759944.15	36759944.41	0.0088	0.0033 *
Moon	95934-03-19 21:50 G	36760311.20	36760311.41	36760311.66	0.0088	0.0042
Earth	95934-03-20 01:40 G	36760311.35	36760311.57	36760311.79	0.0088	0.0046 *
Earth	95935-03-22 13:40 G	36760678.92	36760679.07	36760679.28	0.0088	0.0065
Moon	95935-03-22 17:31 G	36760679.09	36760679.23	36760679.42	0.0088	0.0070 *
Moon	95936-03-23 23:31 G	36761046.38	36761046.48	36761046.62	0.0088	0.0078
Earth	95936-03-24 02:24 G	36761046.54	36761046.60	36761046.72	0.0088	0.0083 *
Mars	95965-08-25 08:09 G	36771792.70	36771792.84	36771793.04	0.0090	0.0073

Mars	95967-07-20 03:07 G	36772486.38	36772486.63	36772486.93	0.0090	0.0032
Mercury	95972-09-19 11:16 G	36774374.92	36774374.97	36774375.03	0.0090	0.0086
Mercury	95972-12-16 15:07 G	36774463.03	36774463.13	36774463.24	0.0090	0.0075
Mercury	95973-03-14 18:43 G	36774551.15	36774551.28	36774551.43	0.0090	0.0064
Mercury	95973-06-10 22:33 G	36774639.29	36774639.44	36774639.61	0.0090	0.0053
Mercury	95973-09-07 02:24 G	36774727.43	36774727.60	36774727.78	0.0090	0.0042
Mercury	95973-12-04 06:14 G	36774815.58	36774815.76	36774815.95	0.0090	0.0031
Mercury	95974-03-02 09:50 G	36774903.73	36774903.91	36774904.11	0.0090	0.0020
Mercury	95974-05-29 13:40 G	36774991.88	36774992.07	36774992.27	0.0090	0.0009
Mercury	95974-08-25 17:31 G	36775080.04	36775080.23	36775080.43	0.0090	0.0003
Mercury	95974-11-21 21:21 G	36775168.20	36775168.39	36775168.58	0.0090	0.0014
Mercury	95975-02-18 00:57 G	36775256.36	36775256.54	36775256.73	0.0090	0.0025
Mercury	95975-05-17 04:33 G	36775344.52	36775344.69	36775344.88	0.0090	0.0036
Mercury	95975-08-13 08:09 G	36775432.69	36775432.84	36775433.02	0.0090	0.0047
Mercury	95975-11-09 12:00 G	36775520.86	36775521.00	36775521.16	0.0090	0.0058
Mercury	95976-02-05 15:36 G	36775609.04	36775609.15	36775609.29	0.0090	0.0069
Mercury	95976-05-03 19:12 G	36775697.23	36775697.30	36775697.41	0.0090	0.0080

# 97TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 97th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	96003-12-23 18:00 G	36785792.15	36785792.25	36785792.35	0.0089	0.0079		

Venus	96004-08-05 06:14 G	36786017.64	36786017.76	36786017.92	0.0089	0.0069
Venus	96005-03-18 19:12 G	36786243.14	36786243.30	36786243.47	0.0089	0.0058
Venus	96005-10-30 07:26 G	36786468.65	36786468.81	36786469.02	0.0089	0.0048
Venus	96006-06-12 20:38 G	36786694.17	36786694.36	36786694.57	0.0089	0.0036
Venus	96007-01-24 09:21 G	36786919.69	36786919.89	36786920.11	0.0089	0.0026
Venus	96007-09-06 22:19 G	36787145.21	36787145.43	36787145.64	0.0089	0.0015
Venus	96008-04-19 10:48 G	36787370.74	36787370.95	36787371.17	0.0089	0.0004
Moon	96008-09-01 17:16 G	36787506.11	36787506.22	36787506.37	0.0089	0.0076
Earth	96008-09-01 20:38 G	36787506.23	36787506.36	36787506.52	0.0089	0.0074 *
Venus	96008-11-30 23:31 G	36787596.27	36787596.48	36787596.70	0.0089	0.0008
Venus	96009-07-14 12:14 G	36787821.81	36787822.01	36787822.24	0.0089	0.0019
Earth	96009-09-04 07:26 G	36787873.62	36787873.81	36787874.02	0.0089	0.0055
Moon	96009-09-04 10:19 G	36787873.74	36787873.93	36787874.16	0.0089	0.0052 *
Venus	96010-02-25 00:57 G	36788047.35	36788047.54	36788047.76	0.0089	0.0029
Moon	96010-09-06 17:02 G	36788241.00	36788241.21	36788241.44	0.0089	0.0039
Earth	96010-09-06 18:14 G	36788241.05	36788241.26	36788241.51	0.0089	0.0037 *
Venus	96010-10-08 13:55 G	36788272.89	36788273.08	36788273.28	0.0089	0.0039
Venus	96011-05-22 02:38 G	36788498.44	36788498.61	36788498.80	0.0089	0.0050
Earth	96011-09-09 05:31 G	36788608.48	36788608.73	36788608.98	0.0089	0.0018
Moon	96011-09-09 05:45 G	36788608.49	36788608.74	36788609.01	0.0089	0.0016 *
Venus	96012-01-02 15:21 G	36788724.00	36788724.14	36788724.32	0.0089	0.0061
Venus	96012-08-15 04:04 G	36788949.56	36788949.67	36788949.82	0.0089	0.0072
Earth	96012-09-10 16:33 G	36788975.93	36788976.19	36788976.44	0.0089	0.0001
Moon	96012-09-10 17:02 G	36788975.96	36788976.21	36788976.46	0.0089	0.0003 *
Venus	96013-03-28 17:02 G	36789175.14	36789175.21	36789175.31	0.0089	0.0082
Moon	96013-09-13 00:43 G	36789343.29	36789343.53	36789343.80	0.0089	0.0021
Earth	96013-09-13 03:21 G	36789343.39	36789343.64	36789343.89	0.0089	0.0018 *
Earth	96014-09-15 13:40 G	36789710.85	36789711.07	36789711.32	0.0089	0.0037
Moon	96014-09-15 16:48 G	36789710.97	36789711.20	36789711.43	0.0089	0.0034 *
Moon	96015-09-17 21:07 G	36790078.20	36790078.38	36790078.58	0.0089	0.0058

Earth	96015-09-18 00:28 G	36790078.34	36790078.52	36790078.73	0.0089	0.0055 *
Earth	96016-09-19 11:16 G	36790445.84	36790445.97	36790446.12	0.0089	0.0073
Moon	96016-09-19 14:52 G	36790445.98	36790446.12	36790446.29	0.0089	0.0070 *
Jupiter	96024-07-03 02:38 G	36793289.15	36793289.61	36793290.12	0.0089	0.0036
Mars	96047-05-19 00:43 G	36801644.34	36801644.53	36801644.80	0.0088	0.0065
Mars	96049-04-14 02:24 G	36802340.34	36802340.60	36802340.89	0.0088	0.0052
Mercury	96053-07-07 07:12 G	36803885.80	36803885.80	36803885.80	0.0088	0.0088
Mercury	96053-10-03 08:24 G	36803973.80	36803973.85	36803973.90	0.0088	0.0081
Mercury	96053-12-30 09:36 G	36804061.84	36804061.90	36804061.97	0.0088	0.0074
Mercury	96054-03-28 10:48 G	36804149.87	36804149.95	36804150.04	0.0088	0.0067
Mercury	96054-06-24 12:14 G	36804237.91	36804238.01	36804238.10	0.0088	0.0060
Mercury	96054-09-20 13:26 G	36804325.96	36804326.06	36804326.16	0.0088	0.0053
Mercury	96054-12-17 14:24 G	36804414.00	36804414.10	36804414.22	0.0088	0.0047
Mercury	96055-03-15 15:36 G	36804502.05	36804502.15	36804502.28	0.0088	0.0040
Mercury	96055-06-11 17:02 G	36804590.09	36804590.21	36804590.34	0.0088	0.0032
Mercury	96055-09-07 18:14 G	36804678.14	36804678.26	36804678.39	0.0088	0.0026
Mercury	96055-12-04 19:40 G	36804766.19	36804766.32	36804766.45	0.0088	0.0018
Mercury	96056-03-01 20:52 G	36804854.24	36804854.37	36804854.50	0.0088	0.0012
Mercury	96056-05-28 22:04 G	36804942.29	36804942.42	36804942.56	0.0088	0.0005
Mercury	96056-08-24 23:31 G	36805030.34	36805030.48	36805030.61	0.0088	0.0003
Mercury	96056-11-21 00:43 G	36805118.40	36805118.53	36805118.66	0.0088	0.0009
Mercury	96057-02-17 01:55 G	36805206.45	36805206.58	36805206.71	0.0088	0.0017
Mercury	96057-05-16 03:07 G	36805294.51	36805294.63	36805294.76	0.0088	0.0024
Mercury	96057-08-12 04:19 G	36805382.56	36805382.68	36805382.81	0.0088	0.0031
Mercury	96057-11-08 05:31 G	36805470.62	36805470.73	36805470.86	0.0088	0.0038
Mercury	96058-02-04 06:57 G	36805558.68	36805558.79	36805558.91	0.0088	0.0044
Mercury	96058-05-03 08:09 G	36805646.74	36805646.84	36805646.95	0.0088	0.0052
Mercury	96058-07-30 09:21 G	36805734.80	36805734.89	36805735.00	0.0088	0.0059
Mercury	96058-10-26 10:33 G	36805822.87	36805822.94	36805823.04	0.0088	0.0066
Mercury	96059-01-22 12:00 G	36805910.93	36805911.00	36805911.08	0.0088	0.0073



Mercury	96059-04-20 13:12 G	36805999.01	36805999.05	36805999.11	0.0088	0.0080
Mercury	96059-07-17 14:24 G	36806087.10	36806087.10	36806087.13	0.0088	0.0087
Venus	96086-09-22 03:36 G	36816015.64	36816015.65	36816015.70	0.0088	0.0087
Venus	96087-05-05 16:48 G	36816241.12	36816241.20	36816241.34	0.0088	0.0077
Venus	96087-12-17 06:28 G	36816466.64	36816466.77	36816466.94	0.0088	0.0066
Venus	96088-07-29 20:09 G	36816692.17	36816692.34	36816692.52	0.0088	0.0055
Venus	96089-03-12 09:07 G	36816917.71	36816917.88	36816918.09	0.0088	0.0045
Venus	96089-10-23 22:48 G	36817143.25	36817143.45	36817143.66	0.0088	0.0034
Venus	96090-06-06 12:00 G	36817368.79	36817369.00	36817369.22	0.0088	0.0024
Venus	96091-01-18 01:26 G	36817594.35	36817594.56	36817594.79	0.0088	0.0013
Earth	96091-03-03 16:04 G	36817639.16	36817639.17	36817639.23	0.0088	0.0087
Moon	96091-03-03 18:14 G	36817639.20	36817639.26	36817639.35	0.0088	0.0084 *
Venus	96091-08-31 14:52 G	36817819.90	36817820.12	36817820.34	0.0088	0.0002
Moon	96092-03-05 04:19 G	36818006.54	36818006.68	36818006.83	0.0088	0.0072
Earth	96092-03-05 04:33 G	36818006.55	36818006.69	36818006.87	0.0088	0.0069 *
Venus	96092-04-13 04:04 G	36818045.45	36818045.67	36818045.89	0.0088	0.0008
Venus	96092-11-24 17:16 G	36818271.01	36818271.22	36818271.44	0.0088	0.0019
Moon	96093-03-07 17:02 G	36818374.00	36818374.21	36818374.45	0.0088	0.0049
Earth	96093-03-07 17:02 G	36818374.02	36818374.21	36818374.44	0.0088	0.0051 *
Venus	96093-07-08 06:14 G	36818496.56	36818496.76	36818496.98	0.0088	0.0030
Venus	96094-02-18 19:40 G	36818722.13	36818722.32	36818722.52	0.0088	0.0040
Earth	96094-03-10 06:00 G	36818741.51	36818741.75	36818741.99	0.0088	0.0033
Moon	96094-03-10 07:26 G	36818741.59	36818741.81	36818742.05	0.0088	0.0035 *
Venus	96094-10-02 08:24 G	36818947.69	36818947.85	36818948.05	0.0088	0.0052
Moon	96095-03-12 15:36 G	36819108.89	36819109.15	36819109.42	0.0088	0.0012
Earth	96095-03-12 18:28 G	36819109.01	36819109.27	36819109.53	0.0088	0.0014 *
Venus	96095-05-15 21:50 G	36819173.26	36819173.41	36819173.58	0.0088	0.0062
Venus	96095-12-27 11:02 G	36819398.85	36819398.96	36819399.10	0.0088	0.0072
Earth	96096-03-14 06:43 G	36819476.52	36819476.78	36819477.05	0.0088	0.0004
Moon	96096-03-14 09:50 G	36819476.66	36819476.91	36819477.17	0.0088	0.0003 *

Venus	96096-08-09 00:28 G	36819624.45	36819624.52	36819624.60	0.0088	0.0083
Moon	96097-03-16 15:21 G	36819843.90	36819844.14	36819844.40	0.0088	0.0025
Earth	96097-03-16 19:12 G	36819844.06	36819844.30	36819844.56	0.0088	0.0022 *
Earth	96098-03-19 07:40 G	36820211.60	36820211.82	36820212.07	0.0088	0.0041
Moon	96098-03-19 11:02 G	36820211.74	36820211.96	36820212.21	0.0088	0.0039 *
Moon	96099-03-21 17:02 G	36820579.04	36820579.21	36820579.41	0.0088	0.0060
Earth	96099-03-21 20:38 G	36820579.16	36820579.36	36820579.55	0.0088	0.0059 *
Earth	96100-03-24 08:38 G	36820946.76	36820946.86	36820947.01	0.0088	0.0078
Moon	96100-03-24 11:02 G	36820946.84	36820946.96	36820947.11	0.0088	0.0076 *
Mars	96131-03-05 12:57 G	36832249.76	36832250.04	36832250.34	0.0090	0.0007
Mercury	96137-06-17 08:52 G	36834545.81	36834545.87	36834545.95	0.0090	0.0083
Mercury	96137-09-13 12:43 G	36834633.92	36834634.03	36834634.15	0.0090	0.0072
Mercury	96137-12-10 16:33 G	36834722.05	36834722.19	36834722.34	0.0090	0.0061
Mercury	96138-03-08 20:09 G	36834810.19	36834810.34	36834810.52	0.0090	0.0050
Mercury	96138-06-05 00:00 G	36834898.33	36834898.50	36834898.69	0.0090	0.0039
Mercury	96138-09-01 03:50 G	36834986.48	36834986.66	36834986.85	0.0090	0.0028
Mercury	96138-11-28 07:40 G	36835074.63	36835074.82	36835075.02	0.0090	0.0017
Mercury	96139-02-24 11:31 G	36835162.79	36835162.98	36835163.18	0.0090	0.0006
Mercury	96139-05-23 15:21 G	36835250.94	36835251.14	36835251.33	0.0090	0.0006
Mercury	96139-08-19 18:57 G	36835339.10	36835339.29	36835339.49	0.0090	0.0017
Mercury	96139-11-15 22:33 G	36835427.26	36835427.44	36835427.64	0.0090	0.0028
Mercury	96140-02-12 02:24 G	36835515.43	36835515.60	36835515.78	0.0090	0.0039
Mercury	96140-05-10 06:00 G	36835603.60	36835603.75	36835603.92	0.0090	0.0050
Mercury	96140-08-06 09:36 G	36835691.77	36835691.90	36835692.06	0.0090	0.0061
Mercury	96140-11-02 13:12 G	36835779.96	36835780.05	36835780.19	0.0090	0.0072
Mercury	96141-01-29 17:02 G	36835868.15	36835868.21	36835868.30	0.0090	0.0083
Venus	96168-03-27 03:36 G	36845786.60	36845786.65	36845786.76	0.0089	0.0083
Venus	96168-11-07 16:33 G	36846012.08	36846012.19	36846012.33	0.0089	0.0072
Venus	96169-06-21 05:45 G	36846237.58	36846237.74	36846237.90	0.0089	0.0061
Venus	96170-02-01 18:00 G	36846463.09	36846463.25	36846463.45	0.0089	0.0051

Venus	96170-09-15 06:57 G	36846688.60	36846688.79	36846688.99	0.0089	0.0040
Venus	96171-04-28 19:40 G	36846914.12	36846914.32	36846914.53	0.0089	0.0029
Venus	96171-12-10 08:09 G	36847139.64	36847139.84	36847140.06	0.0089	0.0019
Venus	96172-07-22 21:07 G	36847365.17	36847365.38	36847365.60	0.0089	0.0007
Earth	96172-09-02 05:31 G	36847406.62	36847406.73	36847406.85	0.0089	0.0079
Moon	96172-09-02 07:40 G	36847406.73	36847406.82	36847406.92	0.0089	0.0083 *
Venus	96173-03-05 09:50 G	36847590.69	36847590.91	36847591.13	0.0089	0.0004
Moon	96173-09-04 14:24 G	36847773.93	36847774.10	36847774.31	0.0089	0.0057
Earth	96173-09-04 16:19 G	36847774.00	36847774.18	36847774.37	0.0089	0.0061 *
Venus	96173-10-16 22:33 G	36847816.23	36847816.44	36847816.65	0.0089	0.0014
Venus	96174-05-30 11:16 G	36848041.77	36848041.97	36848042.18	0.0089	0.0025
Moon	96174-09-07 02:52 G	36848141.40	36848141.62	36848141.85	0.0089	0.0047
Earth	96174-09-07 02:52 G	36848141.41	36848141.62	36848141.86	0.0089	0.0042 *
Venus	96175-01-10 23:45 G	36848267.31	36848267.49	36848267.70	0.0089	0.0037
Venus	96175-08-24 12:28 G	36848492.85	36848493.02	36848493.22	0.0089	0.0047
Earth	96175-09-09 13:40 G	36848508.84	36848509.07	36848509.33	0.0089	0.0024
Moon	96175-09-09 15:07 G	36848508.90	36848509.13	36848509.38	0.0089	0.0020 *
Venus	96176-04-06 01:26 G	36848718.40	36848718.56	36848718.73	0.0089	0.0058
Moon	96176-09-10 22:48 G	36848876.19	36848876.45	36848876.71	0.0089	0.0009
Earth	96176-09-11 00:57 G	36848876.28	36848876.54	36848876.79	0.0089	0.0005 *
Venus	96176-11-17 13:55 G	36848943.96	36848944.08	36848944.24	0.0089	0.0069
Venus	96177-07-01 02:52 G	36849169.54	36849169.62	36849169.74	0.0089	0.0079
Earth	96177-09-13 11:31 G	36849243.73	36849243.98	36849244.24	0.0089	0.0013
Moon	96177-09-13 14:38 G	36849243.87	36849244.11	36849244.37	0.0089	0.0018 *
Moon	96178-09-15 18:57 G	36849611.05	36849611.29	36849611.54	0.0089	0.0027
Earth	96178-09-15 22:04 G	36849611.20	36849611.42	36849611.68	0.0089	0.0032 *
Earth	96179-09-18 08:52 G	36849978.68	36849978.87	36849979.10	0.0089	0.0050
Moon	96179-09-18 12:28 G	36849978.84	36849979.02	36849979.24	0.0089	0.0054 *
Moon	96180-09-19 16:48 G	36850346.05	36850346.20	36850346.39	0.0089	0.0064
Earth	96180-09-19 19:55 G	36850346.18	36850346.33	36850346.50	0.0089	0.0068 *

Earth	96181-09-22 06:28 G	36850713.73	36850713.77	36850713.85	0.0089	0.0086
Mars	96212-11-27 13:40 G	36862101.74	36862102.07	36862102.42	0.0088	0.0009
Mercury	96218-04-05 06:28 G	36864056.75	36864056.77	36864056.81	0.0088	0.0086
Mercury	96218-07-02 07:40 G	36864144.78	36864144.82	36864144.89	0.0088	0.0079
Mercury	96218-09-28 09:07 G	36864232.81	36864232.88	36864232.96	0.0088	0.0072
Mercury	96218-12-25 10:19 G	36864320.85	36864320.93	36864321.02	0.0088	0.0065
Mercury	96219-03-23 11:31 G	36864408.89	36864408.98	36864409.09	0.0088	0.0058
Mercury	96219-06-19 12:57 G	36864496.93	36864497.04	36864497.15	0.0088	0.0051
Mercury	96219-09-15 14:09 G	36864584.98	36864585.09	36864585.21	0.0088	0.0044
Mercury	96219-12-12 15:21 G	36864673.02	36864673.14	36864673.26	0.0088	0.0037
Mercury	96220-03-09 16:48 G	36864761.07	36864761.20	36864761.32	0.0088	0.0030
Mercury	96220-06-05 18:00 G	36864849.12	36864849.25	36864849.38	0.0088	0.0023
Mercury	96220-09-01 19:12 G	36864937.17	36864937.30	36864937.43	0.0088	0.0016
Mercury	96220-11-28 20:24 G	36865025.22	36865025.35	36865025.48	0.0088	0.0009
Mercury	96221-02-24 21:50 G	36865113.27	36865113.41	36865113.54	0.0088	0.0003
Mercury	96221-05-23 23:02 G	36865201.33	36865201.46	36865201.59	0.0088	0.0005
Mercury	96221-08-20 00:14 G	36865289.38	36865289.51	36865289.64	0.0088	0.0012
Mercury	96221-11-16 01:26 G	36865377.43	36865377.56	36865377.69	0.0088	0.0019
Mercury	96222-02-12 02:38 G	36865465.49	36865465.61	36865465.74	0.0088	0.0026
Mercury	96222-05-11 04:04 G	36865553.55	36865553.67	36865553.79	0.0088	0.0033
Mercury	96222-08-07 05:16 G	36865641.60	36865641.72	36865641.84	0.0088	0.0040
Mercury	96222-11-03 06:28 G	36865729.66	36865729.77	36865729.89	0.0088	0.0047
Mercury	96223-01-30 07:40 G	36865817.72	36865817.82	36865817.93	0.0088	0.0054
Mercury	96223-04-28 08:52 G	36865905.79	36865905.87	36865905.98	0.0088	0.0061
Mercury	96223-07-25 10:19 G	36865993.85	36865993.93	36865994.02	0.0088	0.0068
Mercury	96223-10-21 11:31 G	36866081.92	36866081.98	36866082.05	0.0088	0.0075
Mercury	96224-01-17 12:43 G	36866169.99	36866170.03	36866170.08	0.0088	0.0082
Venus	96251-08-09 01:55 G	36876235.51	36876235.58	36876235.69	0.0088	0.0080
Venus	96252-03-21 15:07 G	36876461.01	36876461.13	36876461.28	0.0088	0.0070
Venus	96252-11-02 04:33 G	36876686.54	36876686.69	36876686.87	0.0088	0.0059

Venus	96253-06-15 18:14 G	36876912.07	36876912.26	36876912.45	0.0088	0.0048
Venus	96254-01-27 07:12 G	36877137.62	36877137.80	36877138.02	0.0088	0.0038
Venus	96254-09-09 20:52 G	36877363.16	36877363.37	36877363.59	0.0088	0.0027
Venus	96255-04-23 10:19 G	36877588.71	36877588.93	36877589.15	0.0088	0.0017
Venus	96255-12-04 23:31 G	36877814.26	36877814.48	36877814.71	0.0088	0.0006
Moon	96256-03-06 09:07 G	36877906.74	36877906.88	36877907.06	0.0088	0.0072
Earth	96256-03-06 10:48 G	36877906.82	36877906.95	36877907.09	0.0088	0.0075 *
Venus	96256-07-17 12:57 G	36878039.82	36878040.04	36878040.26	0.0088	0.0005
Venus	96257-02-28 02:09 G	36878265.37	36878265.59	36878265.81	0.0088	0.0016
Earth	96257-03-08 23:16 G	36878274.28	36878274.47	36878274.68	0.0088	0.0056
Moon	96257-03-09 00:57 G	36878274.37	36878274.54	36878274.74	0.0088	0.0060 *
Venus	96257-10-11 15:21 G	36878490.93	36878491.14	36878491.36	0.0088	0.0026
Moon	96258-03-11 08:38 G	36878641.63	36878641.86	36878642.12	0.0088	0.0034
Earth	96258-03-11 11:45 G	36878641.77	36878641.99	36878642.24	0.0088	0.0039 *
Venus	96258-05-25 04:19 G	36878716.50	36878716.68	36878716.90	0.0088	0.0037
Venus	96259-01-05 18:00 G	36878942.07	36878942.25	36878942.44	0.0088	0.0047
Earth	96259-03-14 00:14 G	36879009.26	36879009.51	36879009.77	0.0088	0.0020
Moon	96259-03-14 03:50 G	36879009.42	36879009.66	36879009.92	0.0088	0.0023 *
Venus	96259-08-19 06:57 G	36879167.64	36879167.79	36879167.97	0.0088	0.0058
Moon	96260-03-15 09:21 G	36879376.64	36879376.89	36879377.16	0.0088	0.0003
Earth	96260-03-15 12:57 G	36879376.78	36879377.04	36879377.31	0.0088	0.0002 *
Venus	96260-03-31 20:09 G	36879393.22	36879393.34	36879393.49	0.0088	0.0069
Venus	96260-11-12 09:07 G	36879618.81	36879618.88	36879619.00	0.0088	0.0080
Earth	96261-03-18 01:12 G	36879744.31	36879744.55	36879744.82	0.0088	0.0018
Moon	96261-03-18 05:02 G	36879744.45	36879744.71	36879744.97	0.0088	0.0012 *
Moon	96262-03-20 11:16 G	36880111.76	36880111.97	36880112.22	0.0088	0.0040
Earth	96262-03-20 13:40 G	36880111.85	36880112.07	36880112.33	0.0088	0.0036 *
Earth	96263-03-23 02:09 G	36880479.40	36880479.59	36880479.81	0.0088	0.0054
Moon	96263-03-23 04:04 G	36880479.47	36880479.67	36880479.91	0.0088	0.0049 *
Earth	96264-03-24 14:52 G	36880846.98	36880847.12	36880847.28	0.0088	0.0072

Moon	96264-03-24 14:09 G	36880846.99	36880847.09	36880847.24	0.0088	0.0077 *
Moon	96265-03-27 02:38 G	36881214.56	36881214.61	36881214.68	0.0088	0.0086
Mars	96294-10-19 20:24 G	36892013.10	36892013.35	36892013.60	0.0089	0.0047
Mars	96296-09-12 14:38 G	36892706.91	36892707.11	36892707.36	0.0090	0.0057
Mercury	96302-03-16 06:14 G	36894716.69	36894716.76	36894716.86	0.0090	0.0081
Mercury	96302-06-12 10:04 G	36894804.81	36894804.92	36894805.06	0.0090	0.0070
Mercury	96302-09-08 14:09 G	36894892.95	36894893.09	36894893.24	0.0090	0.0058
Mercury	96302-12-05 18:00 G	36894981.09	36894981.25	36894981.42	0.0090	0.0047
Mercury	96303-03-03 21:50 G	36895069.23	36895069.41	36895069.59	0.0090	0.0036
Mercury	96303-05-31 01:26 G	36895157.38	36895157.56	36895157.75	0.0090	0.0025
Mercury	96303-08-27 05:16 G	36895245.53	36895245.72	36895245.92	0.0090	0.0014
Mercury	96303-11-23 09:07 G	36895333.68	36895333.88	36895334.08	0.0090	0.0003
Mercury	96304-02-19 12:43 G	36895421.84	36895422.03	36895422.23	0.0090	0.0009
Mercury	96304-05-17 16:33 G	36895510.00	36895510.19	36895510.38	0.0090	0.0019
Mercury	96304-08-13 20:09 G	36895598.17	36895598.34	36895598.53	0.0090	0.0031
Mercury	96304-11-09 23:45 G	36895686.33	36895686.49	36895686.68	0.0090	0.0042
Mercury	96305-02-06 03:21 G	36895774.50	36895774.64	36895774.82	0.0090	0.0053
Mercury	96305-05-05 07:12 G	36895862.68	36895862.80	36895862.95	0.0090	0.0064
Mercury	96305-08-01 10:48 G	36895950.87	36895950.95	36895951.08	0.0090	0.0075
Mercury	96305-10-28 14:52 G	36896039.07	36896039.12	36896039.19	0.0090	0.0085
Venus	96332-06-30 13:55 G	36905781.03	36905781.08	36905781.15	0.0089	0.0086
Venus	96333-02-11 02:24 G	36906006.50	36906006.60	36906006.73	0.0089	0.0075
Venus	96333-09-24 15:07 G	36906232.00	36906232.13	36906232.30	0.0089	0.0065
Venus	96334-05-08 04:04 G	36906457.51	36906457.67	36906457.85	0.0089	0.0054
Venus	96334-12-19 16:33 G	36906683.02	36906683.19	36906683.40	0.0089	0.0044
Venus	96335-08-02 05:31 G	36906908.54	36906908.73	36906908.94	0.0089	0.0032
Venus	96336-03-14 18:14 G	36907134.06	36907134.26	36907134.48	0.0089	0.0022
Moon	96336-09-03 13:12 G	36907306.98	36907307.05	36907307.15	0.0089	0.0084
Earth	96336-09-03 13:12 G	36907307.00	36907307.05	36907307.16	0.0089	0.0085 *
Venus	96336-10-26 07:12 G	36907359.58	36907359.80	36907360.01	0.0089	0.0011

Venus	96337-06-08 19:55 G	36907585.11	36907585.33	36907585.55	0.0089	0.0000
Moon	96337-09-05 23:45 G	36907674.34	36907674.49	36907674.69	0.0089	0.0068
Earth	96337-09-06 00:00 G	36907674.36	36907674.50	36907674.70	0.0089	0.0066 *
Venus	96338-01-20 08:24 G	36907810.64	36907810.85	36907811.08	0.0089	0.0012
Venus	96338-09-02 21:07 G	36908036.18	36908036.38	36908036.60	0.0089	0.0022
Earth	96338-09-08 11:16 G	36908041.76	36908041.97	36908042.19	0.0089	0.0048
Moon	96338-09-08 12:43 G	36908041.84	36908042.03	36908042.26	0.0089	0.0047 *
Venus	96339-04-16 09:50 G	36908261.71	36908261.91	36908262.12	0.0089	0.0033
Moon	96339-09-10 18:57 G	36908409.06	36908409.29	36908409.55	0.0089	0.0030
Earth	96339-09-10 22:04 G	36908409.19	36908409.42	36908409.67	0.0089	0.0030 *
Venus	96339-11-27 22:19 G	36908487.26	36908487.43	36908487.64	0.0089	0.0044
Venus	96340-07-10 11:02 G	36908712.81	36908712.96	36908713.15	0.0089	0.0055
Earth	96340-09-12 08:52 G	36908776.62	36908776.87	36908777.13	0.0089	0.0011
Moon	96340-09-12 12:00 G	36908776.75	36908777.00	36908777.25	0.0089	0.0009 *
Venus	96341-02-20 23:45 G	36908938.36	36908938.49	36908938.66	0.0089	0.0065
Moon	96341-09-14 16:04 G	36909143.92	36909144.17	36909144.43	0.0089	0.0006
Earth	96341-09-14 19:40 G	36909144.07	36909144.32	36909144.58	0.0089	0.0008 *
Venus	96341-10-04 12:43 G	36909163.93	36909164.03	36909164.16	0.0089	0.0075
Venus	96342-05-18 01:12 G	36909389.52	36909389.55	36909389.63	0.0089	0.0087
Earth	96342-09-17 06:28 G	36909511.53	36909511.77	36909512.02	0.0089	0.0026
Moon	96342-09-17 09:50 G	36909511.66	36909511.91	36909512.15	0.0089	0.0027 *
Moon	96343-09-19 14:38 G	36909878.90	36909879.11	36909879.34	0.0089	0.0042
Earth	96343-09-19 17:31 G	36909879.01	36909879.23	36909879.45	0.0089	0.0044 *
Earth	96344-09-21 03:50 G	36910246.50	36910246.66	36910246.86	0.0089	0.0063
Moon	96344-09-21 05:31 G	36910246.58	36910246.73	36910246.94	0.0089	0.0065 *
Moon	96345-09-23 14:24 G	36910614.02	36910614.10	36910614.23	0.0089	0.0080
Earth	96345-09-23 14:38 G	36910614.03	36910614.11	36910614.23	0.0089	0.0081 *
Mars	96376-07-12 02:52 G	36921863.32	36921863.62	36921863.95	0.0088	0.0033
Mars	96378-06-08 01:26 G	36922559.46	36922559.56	36922559.70	0.0088	0.0082
Mercury	96383-01-01 05:45 G	36924227.72	36924227.74	36924227.80	0.0088	0.0084

Mercury	96383-03-30 07:12 G	36924315.75	36924315.80	36924315.87	0.0088	0.0077
Mercury	96383-06-26 08:24 G	36924403.78	36924403.85	36924403.94	0.0088	0.0070
Mercury	96383-09-22 09:50 G	36924491.82	36924491.91	36924492.00	0.0088	0.0063
Mercury	96383-12-19 11:02 G	36924579.86	36924579.96	36924580.07	0.0088	0.0056
Mercury	96384-03-16 12:14 G	36924667.91	36924668.01	36924668.13	0.0088	0.0049
Mercury	96384-06-12 13:40 G	36924755.95	36924756.07	36924756.19	0.0088	0.0042
Mercury	96384-09-08 14:52 G	36924844.00	36924844.12	36924844.24	0.0088	0.0035
Mercury	96384-12-05 16:04 G	36924932.05	36924932.17	36924932.30	0.0088	0.0028
Mercury	96385-03-03 17:31 G	36925020.10	36925020.23	36925020.35	0.0088	0.0021
Mercury	96385-05-30 18:43 G	36925108.15	36925108.28	36925108.41	0.0088	0.0014
Mercury	96385-08-26 19:55 G	36925196.20	36925196.33	36925196.46	0.0088	0.0007
Mercury	96385-11-22 21:07 G	36925284.25	36925284.38	36925284.52	0.0088	0.0002
Mercury	96386-02-18 22:19 G	36925372.30	36925372.43	36925372.57	0.0088	0.0008
Mercury	96386-05-17 23:45 G	36925460.36	36925460.49	36925460.62	0.0088	0.0014
Mercury	96386-08-14 00:57 G	36925548.41	36925548.54	36925548.67	0.0088	0.0021
Mercury	96386-11-10 02:09 G	36925636.47	36925636.59	36925636.72	0.0088	0.0028
Mercury	96387-02-06 03:21 G	36925724.53	36925724.64	36925724.77	0.0088	0.0035
Mercury	96387-05-05 04:33 G	36925812.58	36925812.69	36925812.81	0.0088	0.0042
Mercury	96387-08-01 06:00 G	36925900.64	36925900.75	36925900.86	0.0088	0.0049
Mercury	96387-10-28 07:12 G	36925988.70	36925988.80	36925988.91	0.0088	0.0056
Mercury	96388-01-24 08:24 G	36926076.77	36926076.85	36926076.95	0.0088	0.0063
Mercury	96388-04-21 09:36 G	36926164.83	36926164.90	36926164.99	0.0088	0.0070
Mercury	96388-07-18 10:48 G	36926252.90	36926252.95	36926253.02	0.0088	0.0077
Mercury	96388-10-14 12:14 G	36926340.98	36926341.01	36926341.05	0.0088	0.0084
Venus	96415-11-11 10:19 G	36936229.89	36936229.93	36936230.02	0.0088	0.0084
Venus	96416-06-24 00:00 G	36936455.39	36936455.50	36936455.63	0.0088	0.0073
Venus	96417-02-04 12:57 G	36936680.91	36936681.04	36936681.22	0.0088	0.0063
Venus	96417-09-18 02:24 G	36936906.44	36936906.60	36936906.80	0.0088	0.0052
Venus	96418-05-01 16:04 G	36937131.97	36937132.17	36937132.37	0.0088	0.0041
Venus	96418-12-13 05:16 G	36937357.52	36937357.72	36937357.94	0.0088	0.0031



Venus	96419-07-26 18:43 G	36937583.07	36937583.28	36937583.50	0.0088	0.0020
Earth	96420-03-06 15:50 G	36937807.07	36937807.16	36937807.29	0.0088	0.0080
Moon	96420-03-06 18:57 G	36937807.17	36937807.29	36937807.42	0.0088	0.0076 *
Venus	96420-03-08 07:55 G	36937808.61	36937808.83	36937809.06	0.0088	0.0010
Venus	96420-10-19 21:21 G	36938034.17	36938034.39	36938034.61	0.0088	0.0001
Moon	96421-03-09 01:26 G	36938174.40	36938174.56	36938174.75	0.0088	0.0066
Earth	96421-03-09 04:33 G	36938174.52	36938174.69	36938174.89	0.0088	0.0062 *
Venus	96421-06-02 10:33 G	36938259.72	36938259.94	36938260.17	0.0088	0.0012
Venus	96422-01-14 00:00 G	36938485.29	36938485.50	36938485.72	0.0088	0.0022
Earth	96422-03-11 16:48 G	36938541.99	36938542.20	36938542.45	0.0088	0.0044
Moon	96422-03-11 20:24 G	36938542.15	36938542.35	36938542.61	0.0088	0.0042 *
Venus	96422-08-27 13:12 G	36938710.85	36938711.05	36938711.26	0.0088	0.0033
Moon	96423-03-14 02:24 G	36938909.36	36938909.60	36938909.85	0.0088	0.0029
Earth	96423-03-14 05:45 G	36938909.50	36938909.74	36938910.00	0.0088	0.0026 *
Venus	96423-04-10 02:38 G	36938936.41	36938936.61	36938936.80	0.0088	0.0044
Venus	96423-11-21 15:36 G	36939161.99	36939162.15	36939162.33	0.0088	0.0054
Earth	96424-03-15 18:14 G	36939277.00	36939277.26	36939277.53	0.0088	0.0007
Moon	96424-03-15 21:21 G	36939277.13	36939277.39	36939277.66	0.0088	0.0005 *
Venus	96424-07-04 04:33 G	36939387.56	36939387.69	36939387.86	0.0088	0.0065
Venus	96425-02-14 18:00 G	36939613.15	36939613.25	36939613.38	0.0088	0.0076
Moon	96425-03-18 04:33 G	36939644.44	36939644.69	36939644.94	0.0088	0.0009
Earth	96425-03-18 06:43 G	36939644.53	36939644.78	36939645.05	0.0088	0.0012 *
Venus	96425-09-28 06:43 G	36939838.76	36939838.78	36939838.86	0.0088	0.0087
Earth	96426-03-20 19:12 G	36940012.06	36940012.30	36940012.55	0.0088	0.0030
Moon	96426-03-20 19:55 G	36940012.08	36940012.33	36940012.59	0.0088	0.0033 *
Earth	96427-03-23 07:12 G	36940379.60	36940379.80	36940380.04	0.0088	0.0048
Moon	96427-03-23 07:40 G	36940379.61	36940379.82	36940380.04	0.0088	0.0046 *
Moon	96428-03-24 18:28 G	36940747.12	36940747.27	36940747.46	0.0088	0.0069
Earth	96428-03-24 19:40 G	36940747.17	36940747.32	36940747.52	0.0088	0.0067 *
Earth	96429-03-27 08:09 G	36941114.79	36941114.84	36941114.94	0.0088	0.0085

Moon	96429-03-27 11:02 G	36941114.88	36941114.96	36941115.07	0.0088	0.0082 *
Mars	96458-06-04 23:16 G	36951776.43	36951776.47	36951776.55	0.0089	0.0088
Mars	96460-04-28 20:52 G	36952470.10	36952470.37	36952470.67	0.0090	0.0017
Mercury	96466-09-14 00:00 G	36954799.50	36954799.50	36954799.51	0.0090	0.0090
Mercury	96466-12-11 03:21 G	36954887.57	36954887.64	36954887.75	0.0090	0.0079
Mercury	96467-03-09 07:12 G	36954975.69	36954975.80	36954975.95	0.0090	0.0068
Mercury	96467-06-05 11:02 G	36955063.82	36955063.96	36955064.13	0.0090	0.0057
Mercury	96467-09-01 14:52 G	36955151.97	36955152.12	36955152.30	0.0090	0.0046
Mercury	96467-11-28 18:43 G	36955240.11	36955240.28	36955240.47	0.0090	0.0035
Mercury	96468-02-24 22:33 G	36955328.26	36955328.44	36955328.64	0.0090	0.0023
Mercury	96468-05-23 02:24 G	36955416.41	36955416.60	36955416.80	0.0090	0.0012
Mercury	96468-08-19 06:14 G	36955504.57	36955504.76	36955504.96	0.0090	0.0001
Mercury	96468-11-15 10:04 G	36955592.72	36955592.92	36955593.11	0.0090	0.0010
Mercury	96469-02-11 13:40 G	36955680.89	36955681.07	36955681.27	0.0090	0.0021
Mercury	96469-05-10 17:31 G	36955769.05	36955769.23	36955769.41	0.0090	0.0032
Mercury	96469-08-06 21:07 G	36955857.22	36955857.38	36955857.56	0.0090	0.0043
Mercury	96469-11-03 00:57 G	36955945.39	36955945.54	36955945.70	0.0090	0.0054
Mercury	96470-01-30 04:33 G	36956033.57	36956033.69	36956033.83	0.0090	0.0065
Mercury	96470-04-28 08:24 G	36956121.75	36956121.85	36956121.96	0.0090	0.0076
Mercury	96470-07-25 12:00 G	36956209.97	36956210.00	36956210.06	0.0090	0.0087
Venus	96497-05-15 11:16 G	36966000.90	36966000.97	36966001.10	0.0089	0.0080
Venus	96497-12-27 00:14 G	36966226.39	36966226.51	36966226.67	0.0089	0.0069
Venus	96498-08-09 13:12 G	36966451.89	36966452.05	36966452.22	0.0089	0.0058
Venus	96499-03-23 01:40 G	36966677.40	36966677.57	36966677.77	0.0089	0.0047
Venus	96499-11-03 14:24 G	36966902.92	36966903.10	36966903.32	0.0089	0.0037
Venus	96500-06-17 03:36 G	36967128.45	36967128.65	36967128.86	0.0089	0.0025
Moon	96500-09-03 18:43 G	36967207.23	36967207.28	36967207.39	0.0089	0.0086
Venus	96501-01-28 16:19 G	36967353.97	36967354.18	36967354.40	0.0089	0.0015
Earth	96501-09-06 07:26 G	36967574.67	36967574.81	36967574.97	0.0089	0.0072
Moon	96501-09-06 09:07 G	36967574.78	36967574.88	36967575.03	0.0089	0.0077 *

Venus	96501-09-11 05:02 G	36967579.50	36967579.71	36967579.93	0.0089	0.0004
Venus	96502-04-24 17:45 G	36967805.02	36967805.24	36967805.46	0.0089	0.0007
Moon	96502-09-08 15:21 G	36967941.94	36967942.14	36967942.37	0.0089	0.0049
Earth	96502-09-08 18:28 G	36967942.08	36967942.27	36967942.48	0.0089	0.0053 *
Venus	96502-12-06 06:14 G	36968030.56	36968030.76	36968030.98	0.0089	0.0018
Venus	96503-07-19 19:12 G	36968256.10	36968256.30	36968256.51	0.0089	0.0029
Earth	96503-09-11 05:02 G	36968309.49	36968309.71	36968309.96	0.0089	0.0035
Moon	96503-09-11 08:38 G	36968309.65	36968309.86	36968310.10	0.0089	0.0040 *
Venus	96504-03-01 07:40 G	36968481.64	36968481.82	36968482.03	0.0089	0.0040
Moon	96504-09-12 12:43 G	36968676.79	36968677.03	36968677.29	0.0089	0.0012
Earth	96504-09-12 16:19 G	36968676.93	36968677.18	36968677.43	0.0089	0.0017 *
Venus	96504-10-12 20:24 G	36968707.18	36968707.35	36968707.54	0.0089	0.0050
Venus	96505-05-26 08:52 G	36968932.74	36968932.87	36968933.05	0.0089	0.0062
Earth	96505-09-15 02:52 G	36969044.37	36969044.62	36969044.88	0.0089	0.0003
Moon	96505-09-15 06:14 G	36969044.51	36969044.76	36969045.02	0.0089	0.0003 *
Venus	96506-01-06 22:04 G	36969158.30	36969158.42	36969158.55	0.0089	0.0071
Venus	96506-08-20 10:33 G	36969383.88	36969383.94	36969384.04	0.0089	0.0082
Moon	96506-09-17 11:31 G	36969411.76	36969411.98	36969412.23	0.0089	0.0025
Earth	96506-09-17 13:40 G	36969411.83	36969412.07	36969412.33	0.0089	0.0020 *
Earth	96507-09-20 00:14 G	36969779.30	36969779.51	36969779.76	0.0089	0.0039
Moon	96507-09-20 01:55 G	36969779.34	36969779.58	36969779.82	0.0089	0.0034 *
Earth	96508-09-21 11:02 G	36970146.78	36970146.96	36970147.17	0.0089	0.0057
Moon	96508-09-21 10:48 G	36970146.79	36970146.95	36970147.15	0.0089	0.0062 *
Moon	96509-09-23 20:38 G	36970514.20	36970514.36	36970514.52	0.0089	0.0070
Earth	96509-09-23 22:04 G	36970514.30	36970514.42	36970514.56	0.0089	0.0075 *
Mars	96540-02-24 14:38 G	36981624.97	36981625.11	36981625.32	0.0088	0.0075
Mars	96542-01-20 12:43 G	36982320.75	36982321.03	36982321.35	0.0088	0.0039
Mercury	96547-09-29 05:16 G	36984398.69	36984398.72	36984398.78	0.0088	0.0082
Mercury	96547-12-26 06:43 G	36984486.72	36984486.78	36984486.85	0.0088	0.0075
Mercury	96548-03-23 07:55 G	36984574.75	36984574.83	36984574.92	0.0088	0.0068

Mercury	96548-06-19 09:07 G	36984662.79	36984662.88	36984662.98	0.0088	0.0061
Mercury	96548-09-15 10:33 G	36984750.84	36984750.94	36984751.04	0.0088	0.0054
Mercury	96548-12-12 11:45 G	36984838.88	36984838.99	36984839.10	0.0088	0.0047
Mercury	96549-03-10 12:57 G	36984926.93	36984927.04	36984927.16	0.0088	0.0040
Mercury	96549-06-06 14:24 G	36985014.97	36985015.10	36985015.22	0.0088	0.0033
Mercury	96549-09-02 15:36 G	36985103.02	36985103.15	36985103.28	0.0088	0.0026
Mercury	96549-11-29 16:48 G	36985191.07	36985191.20	36985191.33	0.0088	0.0019
Mercury	96550-02-25 18:00 G	36985279.12	36985279.25	36985279.39	0.0088	0.0013
Mercury	96550-05-24 19:26 G	36985367.17	36985367.31	36985367.44	0.0088	0.0006
Mercury	96550-08-20 20:38 G	36985455.23	36985455.36	36985455.49	0.0088	0.0002
Mercury	96550-11-16 21:50 G	36985543.28	36985543.41	36985543.54	0.0088	0.0009
Mercury	96551-02-12 23:02 G	36985631.33	36985631.46	36985631.60	0.0088	0.0016
Mercury	96551-05-12 00:28 G	36985719.39	36985719.52	36985719.65	0.0088	0.0023
Mercury	96551-08-08 01:40 G	36985807.45	36985807.57	36985807.69	0.0088	0.0030
Mercury	96551-11-04 02:52 G	36985895.50	36985895.62	36985895.74	0.0088	0.0037
Mercury	96552-01-31 04:04 G	36985983.56	36985983.67	36985983.79	0.0088	0.0044
Mercury	96552-04-28 05:16 G	36986071.62	36986071.72	36986071.83	0.0088	0.0051
Mercury	96552-07-25 06:28 G	36986159.68	36986159.77	36986159.88	0.0088	0.0058
Mercury	96552-10-21 07:40 G	36986247.74	36986247.82	36986247.92	0.0088	0.0065
Mercury	96553-01-17 09:07 G	36986335.81	36986335.88	36986335.96	0.0088	0.0072
Mercury	96553-04-15 10:19 G	36986423.88	36986423.93	36986423.99	0.0088	0.0079
Mercury	96553-07-12 11:31 G	36986511.97	36986511.98	36986512.02	0.0088	0.0086
Venus	96580-02-13 19:12 G	36996224.28	36996224.30	36996224.33	0.0088	0.0087
Venus	96580-09-26 08:09 G	36996449.75	36996449.84	36996449.96	0.0088	0.0077
Venus	96581-05-09 21:50 G	36996675.27	36996675.41	36996675.56	0.0088	0.0066
Venus	96581-12-21 10:48 G	36996900.80	36996900.95	36996901.14	0.0088	0.0056
Venus	96582-08-04 00:28 G	36997126.33	36997126.52	36997126.71	0.0088	0.0045
Venus	96583-03-17 13:26 G	36997351.87	36997352.06	36997352.28	0.0088	0.0035
Venus	96583-10-29 02:52 G	36997577.41	36997577.62	36997577.84	0.0088	0.0024
Moon	96584-03-06 17:31 G	36997707.23	36997707.23	36997707.25	0.0088	0.0088

Earth	96584-03-06 20:52 G	36997707.34	36997707.37	36997707.45	0.0088	0.0086
Venus	96584-06-10 16:19 G	36997802.96	36997803.18	36997803.40	0.0088	0.0013
Venus	96585-01-22 05:45 G	36998028.52	36998028.74	36998028.96	0.0088	0.0003
Earth	96585-03-09 09:07 G	36998074.74	36998074.88	36998075.07	0.0088	0.0068
Moon	96585-03-09 12:57 G	36998074.88	36998075.04	36998075.23	0.0088	0.0065 *
Venus	96585-09-04 18:57 G	36998254.07	36998254.29	36998254.52	0.0088	0.0008
Moon	96586-03-11 18:28 G	36998442.08	36998442.27	36998442.50	0.0088	0.0053
Earth	96586-03-11 21:50 G	36998442.22	36998442.41	36998442.65	0.0088	0.0050 *
Venus	96586-04-18 07:55 G	36998479.63	36998479.83	36998480.06	0.0088	0.0020
Venus	96586-11-29 21:36 G	36998705.19	36998705.40	36998705.61	0.0088	0.0029
Earth	96587-03-14 10:48 G	36998809.71	36998809.95	36998810.20	0.0088	0.0031
Moon	96587-03-14 13:12 G	36998809.80	36998810.05	36998810.31	0.0088	0.0028 *
Venus	96587-07-13 10:33 G	36998930.76	36998930.94	36998931.15	0.0088	0.0040
Venus	96588-02-24 00:14 G	36999156.33	36999156.51	36999156.69	0.0088	0.0050
Moon	96588-03-15 21:50 G	36999177.18	36999177.41	36999177.67	0.0088	0.0016
Earth	96588-03-15 23:16 G	36999177.22	36999177.47	36999177.74	0.0088	0.0013 *
Venus	96588-10-06 12:57 G	36999381.90	36999382.04	36999382.22	0.0088	0.0062
Earth	96589-03-18 12:00 G	36999544.74	36999545.00	36999545.26	0.0088	0.0005
Moon	96589-03-18 12:28 G	36999544.76	36999545.02	36999545.30	0.0088	0.0009 *
Venus	96589-05-20 02:38 G	36999607.49	36999607.61	36999607.74	0.0088	0.0072
Venus	96589-12-31 15:36 G	36999833.09	36999833.15	36999833.25	0.0088	0.0082
Earth	96590-03-21 00:14 G	36999912.27	36999912.51	36999912.77	0.0088	0.0024
Moon	96590-03-21 01:26 G	36999912.32	36999912.56	36999912.81	0.0088	0.0021 *
Moon	96591-03-23 10:19 G	37000279.72	37000279.93	37000280.19	0.0088	0.0046
Earth	96591-03-23 12:43 G	37000279.82	37000280.03	37000280.27	0.0088	0.0042 *
Earth	96592-03-25 01:12 G	37000647.37	37000647.55	37000647.75	0.0088	0.0061
Moon	96592-03-25 04:04 G	37000647.48	37000647.67	37000647.87	0.0088	0.0057 *
Moon	96593-03-27 09:21 G	37001014.83	37001014.89	37001015.02	0.0088	0.0083
Earth	96593-03-27 13:40 G	37001014.96	37001015.07	37001015.20	0.0088	0.0079 *
Mars	96623-12-14 23:45 G	37012233.22	37012233.49	37012233.79	0.0089	0.0025

Mars	96625-11-07 19:55 G	37012927.22	37012927.33	37012927.50	0.0090	0.0079
Mercury	96631-06-12 20:52 G	37014970.35	37014970.37	37014970.42	0.0090	0.0088
Mercury	96631-09-09 00:43 G	37015058.44	37015058.53	37015058.64	0.0090	0.0077
Mercury	96631-12-06 04:33 G	37015146.57	37015146.69	37015146.83	0.0090	0.0066
Mercury	96632-03-03 08:24 G	37015234.70	37015234.85	37015235.01	0.0090	0.0055
Mercury	96632-05-30 12:00 G	37015322.84	37015323.00	37015323.18	0.0090	0.0044
Mercury	96632-08-26 15:50 G	37015410.99	37015411.16	37015411.35	0.0090	0.0033
Mercury	96632-11-22 19:40 G	37015499.14	37015499.32	37015499.52	0.0090	0.0022
Mercury	96633-02-18 23:31 G	37015587.29	37015587.48	37015587.68	0.0090	0.0011
Mercury	96633-05-18 03:21 G	37015675.44	37015675.64	37015675.84	0.0090	0.0000
Mercury	96633-08-14 06:57 G	37015763.60	37015763.79	37015763.99	0.0090	0.0012
Mercury	96633-11-10 10:33 G	37015851.76	37015851.94	37015852.14	0.0090	0.0023
Mercury	96634-02-06 14:24 G	37015939.93	37015940.10	37015940.29	0.0090	0.0034
Mercury	96634-05-05 18:00 G	37016028.10	37016028.25	37016028.43	0.0090	0.0045
Mercury	96634-08-01 21:36 G	37016116.27	37016116.40	37016116.57	0.0090	0.0056
Mercury	96634-10-29 01:26 G	37016204.45	37016204.56	37016204.71	0.0090	0.0067
Mercury	96635-01-25 05:31 G	37016292.64	37016292.73	37016292.83	0.0090	0.0077
Mercury	96635-04-23 09:07 G	37016380.86	37016380.88	37016380.92	0.0090	0.0088
Saturn	96653-01-14 20:52 G	37022857.01	37022857.37	37022857.80	0.0090	0.0071
Venus	96661-08-18 20:09 G	37025995.29	37025995.34	37025995.44	0.0089	0.0084
Venus	96662-04-01 09:07 G	37026220.77	37026220.88	37026221.02	0.0089	0.0073
Venus	96662-11-12 22:04 G	37026446.27	37026446.42	37026446.58	0.0089	0.0062
Venus	96663-06-26 10:33 G	37026671.78	37026671.94	37026672.14	0.0089	0.0052
Venus	96664-02-06 23:31 G	37026897.30	37026897.48	37026897.69	0.0089	0.0040
Venus	96664-09-19 12:14 G	37027122.82	37027123.01	37027123.23	0.0089	0.0030
Venus	96665-05-03 01:12 G	37027348.34	37027348.55	37027348.76	0.0089	0.0019
Moon	96665-09-06 10:48 G	37027474.85	37027474.95	37027475.09	0.0089	0.0079
Earth	96665-09-06 13:40 G	37027474.98	37027475.07	37027475.22	0.0089	0.0079 *
Venus	96665-12-14 13:55 G	37027573.87	37027574.08	37027574.30	0.0089	0.0008
Venus	96666-07-28 02:52 G	37027799.40	37027799.62	37027799.83	0.0089	0.0003

Earth	96666-09-09 00:57 G	37027842.36	37027842.54	37027842.74	0.0089	0.0060
Moon	96666-09-09 04:19 G	37027842.51	37027842.68	37027842.89	0.0089	0.0060 *
Venus	96667-03-10 15:21 G	37028024.93	37028025.14	37028025.36	0.0089	0.0014
Moon	96667-09-11 08:38 G	37028209.65	37028209.86	37028210.09	0.0089	0.0042
Earth	96667-09-11 11:45 G	37028209.78	37028209.99	37028210.23	0.0089	0.0041 *
Venus	96667-10-22 04:04 G	37028250.47	37028250.67	37028250.88	0.0089	0.0025
Venus	96668-06-03 16:48 G	37028476.01	37028476.20	37028476.41	0.0089	0.0036
Earth	96668-09-12 22:48 G	37028577.21	37028577.45	37028577.70	0.0089	0.0022
Moon	96668-09-13 01:12 G	37028577.31	37028577.55	37028577.82	0.0089	0.0023 *
Venus	96669-01-15 05:16 G	37028701.55	37028701.72	37028701.92	0.0089	0.0047
Venus	96669-08-28 18:00 G	37028927.10	37028927.25	37028927.44	0.0089	0.0057
Moon	96669-09-15 07:40 G	37028944.58	37028944.82	37028945.07	0.0089	0.0004
Earth	96669-09-15 09:36 G	37028944.65	37028944.90	37028945.16	0.0089	0.0005 *
Venus	96670-04-11 06:57 G	37029152.66	37029152.79	37029152.94	0.0089	0.0068
Earth	96670-09-17 20:24 G	37029312.11	37029312.35	37029312.61	0.0089	0.0015
Moon	96670-09-17 20:52 G	37029312.11	37029312.37	37029312.63	0.0089	0.0014 *
Venus	96670-11-22 19:26 G	37029378.22	37029378.31	37029378.43	0.0089	0.0078
Venus	96671-07-06 08:24 G	37029603.85	37029603.85	37029603.88	0.0089	0.0089
Earth	96671-09-20 06:43 G	37029679.56	37029679.78	37029680.04	0.0089	0.0033
Moon	96671-09-20 07:40 G	37029679.60	37029679.82	37029680.06	0.0089	0.0033 *
Moon	96672-09-21 16:04 G	37030046.96	37030047.17	37030047.40	0.0089	0.0050
Earth	96672-09-21 17:31 G	37030047.04	37030047.23	37030047.46	0.0089	0.0051 *
Earth	96673-09-24 04:33 G	37030414.54	37030414.69	37030414.86	0.0089	0.0069
Moon	96673-09-24 07:12 G	37030414.67	37030414.80	37030414.98	0.0089	0.0070 *
Moon	96674-09-26 12:00 G	37030781.96	37030782.00	37030782.06	0.0089	0.0087
Earth	96674-09-26 15:36 G	37030782.11	37030782.15	37030782.19	0.0089	0.0087
Mars	96705-09-05 00:00 G	37042082.16	37042082.50	37042082.84	0.0088	0.0004
Mercury	96712-03-31 03:36 G	37044481.64	37044481.65	37044481.66	0.0088	0.0087
Mercury	96712-06-27 04:33 G	37044569.65	37044569.69	37044569.75	0.0088	0.0081
Mercury	96712-09-23 05:45 G	37044657.68	37044657.74	37044657.82	0.0088	0.0074

Mercury	96712-12-20 07:12 G	37044745.72	37044745.80	37044745.89	0.0088	0.0066
Mercury	96713-03-18 08:24 G	37044833.76	37044833.85	37044833.95	0.0088	0.0060
Mercury	96713-06-14 09:36 G	37044921.81	37044921.90	37044922.01	0.0088	0.0053
Mercury	96713-09-10 11:02 G	37045009.85	37045009.96	37045010.07	0.0088	0.0046
Mercury	96713-12-07 12:14 G	37045097.90	37045098.01	37045098.13	0.0088	0.0039
Mercury	96714-03-05 13:26 G	37045185.94	37045186.06	37045186.19	0.0088	0.0032
Mercury	96714-06-01 14:52 G	37045273.99	37045274.12	37045274.25	0.0088	0.0025
Mercury	96714-08-28 16:04 G	37045362.04	37045362.17	37045362.30	0.0088	0.0018
Mercury	96714-11-24 17:16 G	37045450.09	37045450.22	37045450.36	0.0088	0.0011
Mercury	96715-02-20 18:43 G	37045538.15	37045538.28	37045538.41	0.0088	0.0004
Mercury	96715-05-19 19:55 G	37045626.20	37045626.33	37045626.46	0.0088	0.0003
Mercury	96715-08-15 21:07 G	37045714.25	37045714.38	37045714.51	0.0088	0.0010
Mercury	96715-11-11 22:19 G	37045802.30	37045802.43	37045802.56	0.0088	0.0017
Mercury	96716-02-07 23:31 G	37045890.36	37045890.48	37045890.61	0.0088	0.0024
Mercury	96716-05-06 00:57 G	37045978.42	37045978.54	37045978.66	0.0088	0.0031
Mercury	96716-08-02 02:09 G	37046066.47	37046066.59	37046066.71	0.0088	0.0038
Mercury	96716-10-29 03:21 G	37046154.53	37046154.64	37046154.76	0.0088	0.0045
Mercury	96717-01-25 04:48 G	37046242.59	37046242.70	37046242.80	0.0088	0.0052
Mercury	96717-04-23 06:00 G	37046330.65	37046330.75	37046330.85	0.0088	0.0059
Mercury	96717-07-20 07:12 G	37046418.72	37046418.80	37046418.89	0.0088	0.0066
Mercury	96717-10-16 08:24 G	37046506.78	37046506.85	37046506.93	0.0088	0.0073
Mercury	96718-01-12 09:36 G	37046594.86	37046594.90	37046594.96	0.0088	0.0080
Mercury	96718-04-10 11:02 G	37046682.95	37046682.96	37046682.97	0.0088	0.0087
Venus	96744-12-30 16:19 G	37056444.12	37056444.18	37056444.29	0.0088	0.0081
Venus	96745-08-13 06:00 G	37056669.62	37056669.75	37056669.89	0.0088	0.0070
Venus	96746-03-26 18:57 G	37056895.14	37056895.29	37056895.47	0.0088	0.0060
Venus	96746-11-07 08:24 G	37057120.67	37057120.85	37057121.04	0.0088	0.0049
Venus	96747-06-20 21:36 G	37057346.21	37057346.40	37057346.61	0.0088	0.0039
Venus	96748-02-01 11:02 G	37057571.75	37057571.96	37057572.18	0.0088	0.0028
Venus	96748-09-14 00:28 G	37057797.30	37057797.52	37057797.74	0.0088	0.0017



Moon	96749-03-10 12:00 G	37057974.85	37057975.00	37057975.16	0.0088	0.0069
Earth	96749-03-10 13:55 G	37057974.97	37057975.08	37057975.25	0.0088	0.0074 *
Venus	96749-04-27 13:26 G	37058022.85	37058023.06	37058023.29	0.0088	0.0007
Venus	96749-12-09 02:52 G	37058248.40	37058248.62	37058248.85	0.0088	0.0004
Earth	96750-03-13 02:52 G	37058342.42	37058342.62	37058342.82	0.0088	0.0055
Moon	96750-03-13 04:48 G	37058342.51	37058342.70	37058342.91	0.0088	0.0059 *
Venus	96750-07-22 16:04 G	37058473.96	37058474.17	37058474.40	0.0088	0.0015
Venus	96751-03-05 05:16 G	37058699.52	37058699.72	37058699.94	0.0088	0.0025
Moon	96751-03-15 14:24 G	37058709.88	37058710.10	37058710.34	0.0088	0.0033
Earth	96751-03-15 15:07 G	37058709.90	37058710.13	37058710.38	0.0088	0.0037 *
Venus	96751-10-16 18:28 G	37058925.08	37058925.27	37058925.48	0.0088	0.0036
Moon	96752-03-17 02:52 G	37059077.37	37059077.62	37059077.89	0.0088	0.0023
Earth	96752-03-17 03:36 G	37059077.41	37059077.65	37059077.92	0.0088	0.0019 *
Venus	96752-05-29 07:55 G	37059150.65	37059150.83	37059151.02	0.0088	0.0046
Venus	96753-01-09 21:07 G	37059376.23	37059376.38	37059376.56	0.0088	0.0057
Earth	96753-03-19 16:19 G	37059444.92	37059445.18	37059445.44	0.0088	0.0001
Moon	96753-03-19 17:31 G	37059444.98	37059445.23	37059445.49	0.0088	0.0003 *
Venus	96753-08-23 10:33 G	37059601.81	37059601.94	37059602.09	0.0088	0.0068
Moon	96754-03-22 01:55 G	37059812.32	37059812.58	37059812.85	0.0088	0.0013
Earth	96754-03-22 04:33 G	37059812.45	37059812.69	37059812.96	0.0088	0.0018 *
Venus	96754-04-05 23:31 G	37059827.40	37059827.48	37059827.60	0.0088	0.0078
Earth	96755-03-24 17:02 G	37060179.99	37060180.21	37060180.47	0.0088	0.0036
Moon	96755-03-24 20:24 G	37060180.14	37060180.35	37060180.59	0.0088	0.0041 *
Moon	96756-03-26 01:55 G	37060547.39	37060547.58	37060547.81	0.0088	0.0051
Earth	96756-03-26 05:45 G	37060547.55	37060547.74	37060547.95	0.0088	0.0055 *
Earth	96757-03-28 18:14 G	37060915.12	37060915.26	37060915.41	0.0088	0.0073
Moon	96757-03-28 21:50 G	37060915.29	37060915.41	37060915.55	0.0088	0.0077 *
Moon	96758-03-31 03:50 G	37061282.64	37061282.66	37061282.71	0.0088	0.0088
Mars	96787-07-31 01:26 G	37071996.39	37071996.56	37071996.78	0.0089	0.0067
Mars	96789-06-23 22:04 G	37072690.18	37072690.42	37072690.71	0.0089	0.0038

Mercury	96796-03-09 17:45 G	37075141.21	37075141.24	37075141.30	0.0090	0.0087
Mercury	96796-06-05 21:36 G	37075229.31	37075229.40	37075229.51	0.0090	0.0076
Mercury	96796-09-02 01:26 G	37075317.43	37075317.56	37075317.70	0.0090	0.0065
Mercury	96796-11-29 05:02 G	37075405.57	37075405.71	37075405.88	0.0090	0.0054
Mercury	96797-02-25 08:52 G	37075493.71	37075493.87	37075494.05	0.0090	0.0043
Mercury	96797-05-24 12:43 G	37075581.86	37075582.03	37075582.22	0.0090	0.0032
Mercury	96797-08-20 16:33 G	37075670.01	37075670.19	37075670.39	0.0090	0.0021
Mercury	96797-11-16 20:24 G	37075758.16	37075758.35	37075758.55	0.0090	0.0010
Mercury	96798-02-13 00:14 G	37075846.31	37075846.51	37075846.71	0.0090	0.0001
Mercury	96798-05-12 03:50 G	37075934.47	37075934.66	37075934.86	0.0090	0.0013
Mercury	96798-08-08 07:40 G	37076022.64	37076022.82	37076023.01	0.0090	0.0023
Mercury	96798-11-04 11:16 G	37076110.80	37076110.97	37076111.16	0.0090	0.0035
Mercury	96799-01-31 14:52 G	37076198.97	37076199.12	37076199.31	0.0090	0.0046
Mercury	96799-04-29 18:43 G	37076287.14	37076287.28	37076287.44	0.0090	0.0057
Mercury	96799-07-26 22:19 G	37076375.32	37076375.43	37076375.58	0.0090	0.0068
Mercury	96799-10-23 02:24 G	37076463.51	37076463.60	37076463.70	0.0090	0.0078
Mercury	96800-01-19 06:00 G	37076551.74	37076551.75	37076551.78	0.0090	0.0089
Venus	96825-11-21 04:33 G	37085989.67	37085989.69	37085989.75	0.0089	0.0088
Venus	96826-07-04 17:45 G	37086215.13	37086215.24	37086215.35	0.0089	0.0077
Venus	96827-02-15 06:00 G	37086440.63	37086440.75	37086440.91	0.0089	0.0067
Venus	96827-09-28 18:57 G	37086666.13	37086666.29	37086666.47	0.0089	0.0056
Venus	96828-05-11 07:40 G	37086891.64	37086891.82	37086892.02	0.0089	0.0045
Venus	96828-12-22 20:24 G	37087117.16	37087117.35	37087117.56	0.0089	0.0034
Venus	96829-08-05 09:21 G	37087342.69	37087342.89	37087343.11	0.0089	0.0023
Earth	96829-09-06 19:12 G	37087375.24	37087375.30	37087375.40	0.0089	0.0085
Moon	96829-09-06 22:48 G	37087375.35	37087375.45	37087375.57	0.0089	0.0080 *
Venus	96830-03-18 22:04 G	37087568.21	37087568.42	37087568.64	0.0089	0.0013
Moon	96830-09-09 03:36 G	37087742.50	37087742.65	37087742.81	0.0089	0.0071
Earth	96830-09-09 06:14 G	37087742.62	37087742.76	37087742.96	0.0089	0.0067 *
Venus	96830-10-30 11:02 G	37087793.74	37087793.96	37087794.18	0.0089	0.0001

Venus	96831-06-13 00:00 G	37088019.28	37088019.50	37088019.71	0.0089	0.0010
Earth	96831-09-11 17:31 G	37088110.03	37088110.23	37088110.46	0.0089	0.0048
Moon	96831-09-11 19:55 G	37088110.11	37088110.33	37088110.57	0.0089	0.0043 *
Venus	96832-01-24 12:28 G	37088244.82	37088245.02	37088245.24	0.0089	0.0021
Venus	96832-09-06 01:12 G	37088470.36	37088470.55	37088470.76	0.0089	0.0031
Moon	96832-09-13 03:36 G	37088477.44	37088477.65	37088477.89	0.0089	0.0034
Earth	96832-09-13 04:19 G	37088477.46	37088477.68	37088477.94	0.0089	0.0030 *
Venus	96833-04-19 13:40 G	37088695.90	37088696.07	37088696.28	0.0089	0.0042
Moon	96833-09-15 15:50 G	37088844.90	37088845.16	37088845.43	0.0089	0.0006
Earth	96833-09-15 15:36 G	37088844.91	37088845.15	37088845.41	0.0089	0.0011 *
Venus	96833-12-01 02:38 G	37088921.45	37088921.61	37088921.79	0.0089	0.0053
Venus	96834-07-14 15:21 G	37089147.00	37089147.14	37089147.31	0.0089	0.0064
Earth	96834-09-18 02:24 G	37089212.35	37089212.60	37089212.86	0.0089	0.0009
Moon	96834-09-18 03:50 G	37089212.42	37089212.66	37089212.91	0.0089	0.0004 *
Venus	96835-02-25 04:04 G	37089372.57	37089372.67	37089372.81	0.0089	0.0074
Moon	96835-09-20 10:33 G	37089579.71	37089579.94	37089580.19	0.0089	0.0031
Earth	96835-09-20 13:26 G	37089579.82	37089580.06	37089580.30	0.0089	0.0027 *
Venus	96835-10-08 17:02 G	37089598.15	37089598.21	37089598.28	0.0089	0.0085
Earth	96836-09-21 23:45 G	37089947.29	37089947.49	37089947.73	0.0089	0.0046
Moon	96836-09-22 02:52 G	37089947.41	37089947.62	37089947.85	0.0089	0.0041 *
Moon	96837-09-24 06:57 G	37090314.64	37090314.79	37090314.97	0.0089	0.0069
Earth	96837-09-24 10:48 G	37090314.78	37090314.95	37090315.14	0.0089	0.0063 *
Earth	96838-09-26 21:36 G	37090682.31	37090682.40	37090682.51	0.0089	0.0082
Moon	96838-09-27 00:28 G	37090682.42	37090682.52	37090682.67	0.0089	0.0077 *
Mars	96869-04-18 11:31 G	37101843.71	37101843.98	37101844.27	0.0088	0.0047
Mars	96871-03-15 06:43 G	37102539.59	37102539.78	37102540.03	0.0088	0.0067
Mercury	96876-12-26 02:38 G	37104652.60	37104652.61	37104652.65	0.0088	0.0086
Mercury	96877-03-24 04:04 G	37104740.62	37104740.67	37104740.73	0.0088	0.0079
Mercury	96877-06-20 05:16 G	37104828.65	37104828.72	37104828.80	0.0088	0.0072
Mercury	96877-09-16 06:28 G	37104916.69	37104916.77	37104916.86	0.0088	0.0065

Mercury	96877-12-13 07:55 G	37105004.73	37105004.83	37105004.93	0.0088	0.0058
Mercury	96878-03-11 09:07 G	37105092.78	37105092.88	37105092.99	0.0088	0.0051
Mercury	96878-06-07 10:04 G	37105180.82	37105180.92	37105181.05	0.0088	0.0045
Mercury	96878-09-03 11:31 G	37105268.87	37105268.98	37105269.10	0.0088	0.0037
Mercury	96878-11-30 12:43 G	37105356.91	37105357.03	37105357.16	0.0088	0.0031
Mercury	96879-02-26 14:09 G	37105444.96	37105445.09	37105445.22	0.0088	0.0023
Mercury	96879-05-25 15:21 G	37105533.01	37105533.14	37105533.27	0.0088	0.0016
Mercury	96879-08-21 16:33 G	37105621.06	37105621.19	37105621.33	0.0088	0.0010
Mercury	96879-11-17 18:00 G	37105709.11	37105709.25	37105709.38	0.0088	0.0003
Mercury	96880-02-13 19:12 G	37105797.17	37105797.30	37105797.43	0.0088	0.0005
Mercury	96880-05-11 20:24 G	37105885.22	37105885.35	37105885.48	0.0088	0.0012
Mercury	96880-08-07 21:36 G	37105973.28	37105973.40	37105973.53	0.0088	0.0019
Mercury	96880-11-03 22:48 G	37106061.33	37106061.45	37106061.58	0.0088	0.0026
Mercury	96881-01-31 00:00 G	37106149.39	37106149.50	37106149.63	0.0088	0.0033
Mercury	96881-04-29 01:12 G	37106237.44	37106237.55	37106237.68	0.0088	0.0040
Mercury	96881-07-26 02:38 G	37106325.50	37106325.61	37106325.73	0.0088	0.0046
Mercury	96881-10-22 03:50 G	37106413.56	37106413.66	37106413.77	0.0088	0.0053
Mercury	96882-01-18 05:02 G	37106501.62	37106501.71	37106501.81	0.0088	0.0061
Mercury	96882-04-16 06:14 G	37106589.69	37106589.76	37106589.85	0.0088	0.0068
Mercury	96882-07-13 07:26 G	37106677.76	37106677.81	37106677.89	0.0088	0.0075
Mercury	96882-10-09 08:38 G	37106765.83	37106765.86	37106765.92	0.0088	0.0082
Venus	96909-04-04 00:28 G	37116438.48	37116438.52	37116438.60	0.0088	0.0085
Venus	96909-11-15 13:55 G	37116663.98	37116664.08	37116664.22	0.0088	0.0074
Venus	96910-06-29 03:07 G	37116889.50	37116889.63	37116889.81	0.0088	0.0064
Venus	96911-02-09 16:33 G	37117115.03	37117115.19	37117115.38	0.0088	0.0053
Venus	96911-09-23 06:14 G	37117340.56	37117340.76	37117340.95	0.0088	0.0042
Venus	96912-05-05 19:12 G	37117566.10	37117566.30	37117566.52	0.0088	0.0032
Venus	96912-12-17 08:38 G	37117791.65	37117791.86	37117792.08	0.0088	0.0021
Earth	96913-03-10 19:12 G	37117875.21	37117875.30	37117875.43	0.0088	0.0079
Moon	96913-03-10 19:40 G	37117875.24	37117875.32	37117875.47	0.0088	0.0080 *

Venus	96913-07-30 21:50 G	37118017.20	37118017.41	37118017.64	0.0088	0.0011
Moon	96914-03-13 07:40 G	37118242.65	37118242.82	37118243.01	0.0088	0.0060
Earth	96914-03-13 07:40 G	37118242.65	37118242.82	37118243.02	0.0088	0.0061 *
Venus	96914-03-13 11:16 G	37118242.74	37118242.97	37118243.19	0.0088	0.0001 *
Venus	96914-10-25 00:14 G	37118468.29	37118468.51	37118468.74	0.0088	0.0011
Moon	96915-03-15 18:57 G	37118610.06	37118610.29	37118610.53	0.0088	0.0044
Earth	96915-03-15 20:09 G	37118610.12	37118610.34	37118610.58	0.0088	0.0043 *
Venus	96915-06-07 13:26 G	37118693.85	37118694.06	37118694.29	0.0088	0.0021
Venus	96916-01-19 02:38 G	37118919.42	37118919.61	37118919.83	0.0088	0.0033
Earth	96916-03-17 08:09 G	37118977.60	37118977.84	37118978.11	0.0088	0.0025
Moon	96916-03-17 11:02 G	37118977.72	37118977.96	37118978.21	0.0088	0.0024 *
Venus	96916-08-31 16:19 G	37119144.98	37119145.18	37119145.37	0.0088	0.0042
Moon	96917-03-19 17:45 G	37119344.98	37119345.24	37119345.51	0.0088	0.0008
Earth	96917-03-19 20:52 G	37119345.11	37119345.37	37119345.64	0.0088	0.0007 *
Venus	96917-04-14 05:02 G	37119370.55	37119370.71	37119370.91	0.0088	0.0053
Venus	96917-11-25 18:14 G	37119596.13	37119596.26	37119596.43	0.0088	0.0064
Earth	96918-03-22 09:07 G	37119712.63	37119712.88	37119713.15	0.0088	0.0013
Moon	96918-03-22 12:57 G	37119712.79	37119713.04	37119713.30	0.0088	0.0014 *
Venus	96918-07-09 07:40 G	37119821.72	37119821.82	37119821.95	0.0088	0.0074
Venus	96919-02-19 20:38 G	37120047.33	37120047.36	37120047.45	0.0088	0.0085
Moon	96919-03-24 18:14 G	37120080.03	37120080.26	37120080.52	0.0088	0.0029
Earth	96919-03-24 21:50 G	37120080.17	37120080.41	37120080.66	0.0088	0.0030 *
Earth	96920-03-26 10:19 G	37120447.72	37120447.93	37120448.15	0.0088	0.0049
Moon	96920-03-26 13:12 G	37120447.86	37120448.05	37120448.29	0.0088	0.0052 *
Moon	96921-03-28 20:24 G	37120815.18	37120815.35	37120815.52	0.0088	0.0065
Earth	96921-03-28 22:19 G	37120815.29	37120815.43	37120815.63	0.0088	0.0068 *
Earth	96922-03-31 10:48 G	37121182.91	37121182.95	37121183.05	0.0088	0.0086
Moon	96922-03-31 11:45 G	37121182.98	37121182.99	37121183.07	0.0088	0.0088 *
Jupiter	96932-01-20 00:00 G	37124764.04	37124764.50	37124765.05	0.0089	0.0038
Mars	96953-02-07 01:26 G	37132453.27	37132453.56	37132453.85	0.0089	0.0004

Mercury	96960-12-05 14:09 G	37135312.06	37135312.09	37135312.16	0.0090	0.0087
Mercury	96961-03-03 18:00 G	37135400.17	37135400.25	37135400.38	0.0090	0.0076
Mercury	96961-05-30 22:19 G	37135488.29	37135488.43	37135488.57	0.0090	0.0064
Mercury	96961-08-27 02:09 G	37135576.43	37135576.59	37135576.75	0.0090	0.0053
Mercury	96961-11-23 05:45 G	37135664.57	37135664.74	37135664.92	0.0090	0.0042
Mercury	96962-02-19 09:36 G	37135752.72	37135752.90	37135753.09	0.0090	0.0031
Mercury	96962-05-18 13:26 G	37135840.87	37135841.06	37135841.25	0.0090	0.0020
Mercury	96962-08-14 17:16 G	37135929.02	37135929.22	37135929.41	0.0090	0.0009
Mercury	96962-11-10 21:07 G	37136017.18	37136017.38	37136017.57	0.0090	0.0003
Mercury	96963-02-07 00:43 G	37136105.34	37136105.53	37136105.73	0.0090	0.0013
Mercury	96963-05-06 04:33 G	37136193.50	37136193.69	37136193.88	0.0090	0.0024
Mercury	96963-08-02 08:09 G	37136281.67	37136281.84	37136282.03	0.0090	0.0035
Mercury	96963-10-29 12:00 G	37136369.83	37136370.00	37136370.17	0.0090	0.0046
Mercury	96964-01-25 15:36 G	37136458.01	37136458.15	37136458.31	0.0090	0.0057
Mercury	96964-04-22 19:12 G	37136546.19	37136546.30	37136546.44	0.0090	0.0068
Mercury	96964-07-19 22:48 G	37136634.38	37136634.45	37136634.56	0.0090	0.0079
Mercury	96964-10-16 02:52 G	37136722.62	37136722.62	37136722.63	0.0090	0.0090
Venus	96990-10-07 01:40 G	37146209.50	37146209.57	37146209.67	0.0090	0.0082
Venus	96991-05-20 14:38 G	37146434.99	37146435.11	37146435.25	0.0089	0.0071
Venus	96992-01-01 03:36 G	37146660.49	37146660.65	37146660.81	0.0089	0.0060
Venus	96992-08-13 15:50 G	37146885.99	37146886.16	37146886.36	0.0089	0.0050
Venus	96993-03-27 04:33 G	37147111.51	37147111.69	37147111.90	0.0089	0.0039
Moon	96993-09-06 22:19 G	37147275.41	37147275.43	37147275.47	0.0089	0.0089
Venus	96993-11-07 17:31 G	37147337.03	37147337.23	37147337.44	0.0089	0.0028
Venus	96994-06-21 06:28 G	37147562.56	37147562.77	37147562.98	0.0089	0.0017
Earth	96994-09-09 11:31 G	37147642.84	37147642.98	37147643.14	0.0089	0.0073
Moon	96994-09-09 13:26 G	37147642.92	37147643.06	37147643.21	0.0089	0.0074 *
Venus	96995-02-01 19:12 G	37147788.08	37147788.30	37147788.52	0.0089	0.0006
Moon	96995-09-11 22:04 G	37148010.23	37148010.42	37148010.63	0.0089	0.0053
Earth	96995-09-11 22:19 G	37148010.25	37148010.43	37148010.66	0.0089	0.0055 *

Venus	96995-09-15 07:55 G	37148013.61	37148013.83	37148014.05	0.0089	0.0005
Venus	96996-04-27 20:38 G	37148239.15	37148239.36	37148239.57	0.0089	0.0016
Moon	96996-09-13 08:38 G	37148377.63	37148377.86	37148378.11	0.0089	0.0038
Earth	96996-09-13 09:50 G	37148377.69	37148377.91	37148378.15	0.0089	0.0036 *
Venus	96996-12-09 09:21 G	37148464.69	37148464.89	37148465.10	0.0089	0.0026
Venus	96997-07-22 22:04 G	37148690.23	37148690.42	37148690.63	0.0089	0.0037
Earth	96997-09-15 20:38 G	37148745.12	37148745.36	37148745.62	0.0089	0.0017
Moon	96997-09-15 22:33 G	37148745.20	37148745.44	37148745.69	0.0089	0.0016 *
Venus	96998-03-05 10:33 G	37148915.78	37148915.94	37148916.14	0.0089	0.0049
Moon	96998-09-18 05:02 G	37149112.45	37149112.71	37149112.97	0.0089	0.0001
Earth	96998-09-18 07:55 G	37149112.58	37149112.83	37149113.08	0.0089	0.0002 *
Venus	96998-10-16 23:45 G	37149141.33	37149141.49	37149141.65	0.0089	0.0059
Venus	96999-05-30 12:14 G	37149366.89	37149367.01	37149367.16	0.0089	0.0070
Earth	96999-09-20 18:28 G	37149480.03	37149480.27	37149480.53	0.0089	0.0021
Moon	96999-09-20 22:04 G	37149480.18	37149480.42	37149480.67	0.0089	0.0022 *
Venus	97000-01-11 00:57 G	37149592.46	37149592.54	37149592.65	0.0089	0.0080
Moon	97000-09-23 02:09 G	37149847.36	37149847.59	37149847.82	0.0089	0.0038
Earth	97000-09-23 05:16 G	37149847.51	37149847.72	37149847.96	0.0089	0.0039 *

# 98TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 98th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
--------	-------------------------	---	-------	-----	-----	--------	-------	---

Earth	97001-09-25 16:04 G	37150214.99	37150215.17	37150215.38	0.0089	0.0057
Moon	97001-09-25 19:26 G	37150215.13	37150215.31	37150215.52	0.0089	0.0058 *
Moon	97002-09-28 00:28 G	37150582.41	37150582.52	37150582.68	0.0089	0.0074
Earth	97002-09-28 02:52 G	37150582.50	37150582.62	37150582.76	0.0089	0.0075 *
Mars	97034-10-28 18:14 G	37162300.93	37162301.26	37162301.59	0.0088	0.0022
Mercury	97041-09-24 01:55 G	37164823.56	37164823.58	37164823.62	0.0088	0.0085
Mercury	97041-12-21 03:07 G	37164911.58	37164911.63	37164911.70	0.0088	0.0078
Mercury	97042-03-19 04:19 G	37164999.62	37164999.68	37164999.77	0.0088	0.0071
Mercury	97042-06-15 05:45 G	37165087.66	37165087.74	37165087.83	0.0088	0.0064
Mercury	97042-09-11 06:57 G	37165175.70	37165175.79	37165175.90	0.0088	0.0057
Mercury	97042-12-08 08:24 G	37165263.74	37165263.85	37165263.96	0.0088	0.0050
Mercury	97043-03-06 09:36 G	37165351.79	37165351.90	37165352.02	0.0088	0.0043
Mercury	97043-06-02 10:33 G	37165439.83	37165439.94	37165440.07	0.0088	0.0037
Mercury	97043-08-29 12:00 G	37165527.88	37165528.00	37165528.13	0.0088	0.0029
Mercury	97043-11-25 13:12 G	37165615.93	37165616.05	37165616.19	0.0088	0.0023
Mercury	97044-02-21 14:38 G	37165703.98	37165704.11	37165704.24	0.0088	0.0015
Mercury	97044-05-19 15:50 G	37165792.03	37165792.16	37165792.29	0.0088	0.0008
Mercury	97044-08-15 17:02 G	37165880.08	37165880.21	37165880.35	0.0088	0.0003
Mercury	97044-11-11 18:14 G	37165968.13	37165968.26	37165968.40	0.0088	0.0007
Mercury	97045-02-07 19:40 G	37166056.19	37166056.32	37166056.45	0.0088	0.0013
Mercury	97045-05-06 20:52 G	37166144.24	37166144.37	37166144.50	0.0088	0.0019
Mercury	97045-08-02 22:04 G	37166232.30	37166232.42	37166232.55	0.0088	0.0026
Mercury	97045-10-29 23:16 G	37166320.35	37166320.47	37166320.60	0.0088	0.0034
Mercury	97046-01-26 00:28 G	37166408.41	37166408.52	37166408.64	0.0088	0.0041
Mercury	97046-04-24 01:40 G	37166496.47	37166496.57	37166496.69	0.0088	0.0048
Mercury	97046-07-21 02:52 G	37166584.53	37166584.62	37166584.74	0.0088	0.0055
Mercury	97046-10-17 04:19 G	37166672.59	37166672.68	37166672.78	0.0088	0.0061
Mercury	97047-01-13 05:31 G	37166760.66	37166760.73	37166760.82	0.0088	0.0069
Mercury	97047-04-11 06:43 G	37166848.73	37166848.78	37166848.86	0.0088	0.0076
Mercury	97047-07-08 07:55 G	37166936.80	37166936.83	37166936.89	0.0088	0.0083



Venus	97074-02-17 21:50 G	37176658.33	37176658.41	37176658.53	0.0088	0.0078
Venus	97074-10-01 11:02 G	37176883.84	37176883.96	37176884.12	0.0088	0.0068
Venus	97075-05-15 00:28 G	37177109.37	37177109.52	37177109.71	0.0088	0.0057
Venus	97075-12-26 14:24 G	37177334.91	37177335.10	37177335.29	0.0088	0.0046
Venus	97076-08-08 03:21 G	37177560.45	37177560.64	37177560.85	0.0088	0.0036
Earth	97077-03-11 00:00 G	37177775.46	37177775.50	37177775.59	0.0088	0.0085
Venus	97077-03-21 16:48 G	37177785.99	37177786.20	37177786.41	0.0088	0.0025
Venus	97077-11-02 05:45 G	37178011.53	37178011.74	37178011.97	0.0088	0.0015
Moon	97078-03-13 10:04 G	37178142.76	37178142.92	37178143.14	0.0088	0.0063
Earth	97078-03-13 12:28 G	37178142.87	37178143.02	37178143.21	0.0088	0.0067 *
Venus	97078-06-15 19:12 G	37178237.08	37178237.30	37178237.53	0.0088	0.0004
Venus	97079-01-27 08:38 G	37178462.64	37178462.86	37178463.08	0.0088	0.0007
Earth	97079-03-16 00:28 G	37178510.33	37178510.52	37178510.76	0.0088	0.0049
Moon	97079-03-16 03:21 G	37178510.46	37178510.64	37178510.86	0.0088	0.0054 *
Venus	97079-09-09 21:50 G	37178688.19	37178688.41	37178688.63	0.0088	0.0017
Moon	97080-03-17 09:21 G	37178877.65	37178877.89	37178878.16	0.0088	0.0026
Earth	97080-03-17 13:12 G	37178877.82	37178878.05	37178878.31	0.0088	0.0031 *
Venus	97080-04-22 10:48 G	37178913.75	37178913.95	37178914.17	0.0088	0.0028
Venus	97080-12-04 00:00 G	37179139.31	37179139.50	37179139.71	0.0088	0.0039
Earth	97081-03-20 01:40 G	37179245.31	37179245.57	37179245.83	0.0088	0.0012
Moon	97081-03-20 05:02 G	37179245.46	37179245.71	37179245.97	0.0088	0.0017 *
Venus	97081-07-17 13:12 G	37179364.88	37179365.05	37179365.25	0.0088	0.0049
Venus	97082-02-28 02:24 G	37179590.45	37179590.60	37179590.78	0.0088	0.0060
Moon	97082-03-22 10:33 G	37179612.69	37179612.94	37179613.20	0.0088	0.0011
Earth	97082-03-22 14:09 G	37179612.83	37179613.09	37179613.35	0.0088	0.0006 *
Venus	97082-10-11 15:36 G	37179816.03	37179816.15	37179816.30	0.0088	0.0071
Earth	97083-03-25 02:24 G	37179980.36	37179980.60	37179980.86	0.0088	0.0024
Moon	97083-03-25 05:02 G	37179980.45	37179980.71	37179980.97	0.0088	0.0019 *
Venus	97083-05-25 04:33 G	37180041.63	37180041.69	37180041.81	0.0088	0.0081
Moon	97084-03-26 12:57 G	37180347.84	37180348.04	37180348.27	0.0088	0.0047

Earth	97084-03-26 14:52 G	37180347.90	37180348.12	37180348.35	0.0088	0.0043	*
Earth	97085-03-29 03:07 G	37180715.46	37180715.63	37180715.84	0.0088	0.0061	
Moon	97085-03-29 04:04 G	37180715.48	37180715.67	37180715.89	0.0088	0.0056	*
Earth	97086-03-31 15:36 G	37181083.06	37181083.15	37181083.29	0.0088	0.0079	
Moon	97086-03-31 16:33 G	37181083.14	37181083.19	37181083.29	0.0088	0.0084	*
Mars	97116-09-24 00:14 G	37192216.28	37192216.51	37192216.79	0.0089	0.0045	
Mars	97118-08-18 23:16 G	37192910.27	37192910.47	37192910.72	0.0089	0.0058	
Mercury	97125-09-03 11:02 G	37195482.92	37195482.96	37195483.04	0.0090	0.0086	
Mercury	97125-11-30 14:52 G	37195571.03	37195571.12	37195571.25	0.0090	0.0075	
Mercury	97126-02-26 18:43 G	37195659.16	37195659.28	37195659.44	0.0090	0.0064	
Mercury	97126-05-25 22:33 G	37195747.30	37195747.44	37195747.61	0.0090	0.0053	
Mercury	97126-08-22 02:38 G	37195835.44	37195835.61	37195835.79	0.0090	0.0041	
Mercury	97126-11-18 06:28 G	37195923.59	37195923.77	37195923.96	0.0090	0.0030	
Mercury	97127-02-14 10:19 G	37196011.74	37196011.93	37196012.12	0.0090	0.0019	
Mercury	97127-05-13 14:09 G	37196099.89	37196100.09	37196100.28	0.0090	0.0008	
Mercury	97127-08-09 17:45 G	37196188.05	37196188.24	37196188.44	0.0090	0.0004	
Mercury	97127-11-05 21:36 G	37196276.21	37196276.40	37196276.60	0.0090	0.0014	
Mercury	97128-02-02 01:26 G	37196364.37	37196364.56	37196364.75	0.0090	0.0025	
Mercury	97128-04-30 05:02 G	37196452.54	37196452.71	37196452.90	0.0090	0.0036	
Mercury	97128-07-27 08:52 G	37196540.71	37196540.87	37196541.04	0.0090	0.0047	
Mercury	97128-10-23 12:28 G	37196628.88	37196629.02	37196629.18	0.0090	0.0058	
Mercury	97129-01-19 16:19 G	37196717.06	37196717.18	37196717.31	0.0090	0.0069	
Mercury	97129-04-17 19:55 G	37196805.26	37196805.33	37196805.43	0.0090	0.0080	
Venus	97155-01-10 10:19 G	37206203.88	37206203.93	37206203.99	0.0090	0.0086	
Venus	97155-08-23 22:33 G	37206429.35	37206429.44	37206429.58	0.0090	0.0076	
Venus	97156-04-05 11:16 G	37206654.84	37206654.97	37206655.14	0.0089	0.0065	
Venus	97156-11-17 00:14 G	37206880.34	37206880.51	37206880.69	0.0089	0.0054	
Venus	97157-06-30 12:43 G	37207105.86	37207106.03	37207106.24	0.0089	0.0044	
Venus	97158-02-11 01:40 G	37207331.38	37207331.57	37207331.78	0.0089	0.0032	
Earth	97158-09-10 16:19 G	37207543.09	37207543.18	37207543.33	0.0089	0.0080	

Moon	97158-09-10 16:48 G	37207543.10	37207543.20	37207543.36	0.0089	0.0077 *
Venus	97158-09-24 14:24 G	37207556.90	37207557.10	37207557.32	0.0089	0.0022
Venus	97159-05-08 03:07 G	37207782.42	37207782.63	37207782.85	0.0089	0.0011
Moon	97159-09-13 02:24 G	37207910.43	37207910.60	37207910.79	0.0089	0.0065
Earth	97159-09-13 03:50 G	37207910.49	37207910.66	37207910.86	0.0089	0.0061 *
Venus	97159-12-19 16:04 G	37208007.95	37208008.17	37208008.38	0.0089	0.0001
Venus	97160-08-01 04:48 G	37208233.49	37208233.70	37208233.92	0.0089	0.0011
Earth	97160-09-14 14:38 G	37208277.90	37208278.11	37208278.35	0.0089	0.0043
Moon	97160-09-14 17:31 G	37208278.02	37208278.23	37208278.47	0.0089	0.0039 *
Venus	97161-03-14 17:16 G	37208459.02	37208459.22	37208459.44	0.0089	0.0023
Moon	97161-09-16 22:33 G	37208645.21	37208645.44	37208645.70	0.0089	0.0028
Earth	97161-09-17 02:09 G	37208645.35	37208645.59	37208645.84	0.0089	0.0023 *
Venus	97161-10-26 06:00 G	37208684.56	37208684.75	37208684.97	0.0089	0.0033
Venus	97162-06-08 19:12 G	37208910.11	37208910.30	37208910.49	0.0089	0.0044
Earth	97162-09-19 13:12 G	37209012.80	37209013.05	37209013.30	0.0089	0.0005
Moon	97162-09-19 16:48 G	37209012.95	37209013.20	37209013.45	0.0089	0.0000 *
Venus	97163-01-20 07:40 G	37209135.66	37209135.82	37209136.01	0.0089	0.0055
Venus	97163-09-02 20:24 G	37209361.22	37209361.35	37209361.51	0.0089	0.0065
Moon	97163-09-21 20:52 G	37209380.13	37209380.37	37209380.63	0.0089	0.0010
Earth	97163-09-22 00:00 G	37209380.26	37209380.50	37209380.77	0.0089	0.0015 *
Venus	97164-04-15 08:52 G	37209586.78	37209586.87	37209587.01	0.0089	0.0077
Earth	97164-09-23 11:02 G	37209747.73	37209747.96	37209748.21	0.0089	0.0032
Moon	97164-09-23 13:40 G	37209747.84	37209748.07	37209748.32	0.0089	0.0037 *
Venus	97164-11-26 21:50 G	37209812.38	37209812.41	37209812.48	0.0089	0.0087
Moon	97165-09-25 19:26 G	37210115.13	37210115.31	37210115.55	0.0089	0.0048
Earth	97165-09-25 21:36 G	37210115.21	37210115.40	37210115.63	0.0089	0.0051 *
Earth	97166-09-28 08:24 G	37210482.71	37210482.85	37210483.03	0.0089	0.0070
Moon	97166-09-28 08:38 G	37210482.74	37210482.86	37210483.03	0.0089	0.0074 *
Moon	97167-09-30 19:55 G	37210850.27	37210850.33	37210850.43	0.0089	0.0084
Earth	97167-09-30 19:40 G	37210850.28	37210850.32	37210850.37	0.0089	0.0088 *

Mars	97198-06-12 05:45 G	37222062.43	37222062.74	37222063.09	0.0088	0.0021
Mercury	97206-06-22 01:26 G	37224994.52	37224994.56	37224994.60	0.0088	0.0083
Mercury	97206-09-18 02:24 G	37225082.55	37225082.60	37225082.67	0.0088	0.0077
Mercury	97206-12-15 03:36 G	37225170.58	37225170.65	37225170.74	0.0088	0.0070
Mercury	97207-03-13 05:02 G	37225258.62	37225258.71	37225258.81	0.0088	0.0063
Mercury	97207-06-09 06:14 G	37225346.67	37225346.76	37225346.87	0.0088	0.0056
Mercury	97207-09-05 07:26 G	37225434.71	37225434.81	37225434.93	0.0088	0.0049
Mercury	97207-12-02 08:52 G	37225522.76	37225522.87	37225522.99	0.0088	0.0042
Mercury	97208-02-28 10:04 G	37225610.80	37225610.92	37225611.04	0.0088	0.0035
Mercury	97208-05-26 11:16 G	37225698.85	37225698.97	37225699.10	0.0088	0.0028
Mercury	97208-08-22 12:28 G	37225786.90	37225787.02	37225787.15	0.0088	0.0021
Mercury	97208-11-18 13:40 G	37225874.95	37225875.07	37225875.21	0.0088	0.0015
Mercury	97209-02-14 15:07 G	37225963.00	37225963.13	37225963.26	0.0088	0.0007
Mercury	97209-05-13 16:19 G	37226051.05	37226051.18	37226051.31	0.0088	0.0001
Mercury	97209-08-09 17:31 G	37226139.10	37226139.23	37226139.36	0.0088	0.0007
Mercury	97209-11-05 18:43 G	37226227.15	37226227.28	37226227.42	0.0088	0.0014
Mercury	97210-02-01 19:55 G	37226315.21	37226315.33	37226315.47	0.0088	0.0021
Mercury	97210-04-30 21:21 G	37226403.26	37226403.39	37226403.51	0.0088	0.0028
Mercury	97210-07-27 22:33 G	37226491.32	37226491.44	37226491.56	0.0088	0.0035
Mercury	97210-10-23 23:45 G	37226579.38	37226579.49	37226579.61	0.0088	0.0042
Mercury	97211-01-20 00:57 G	37226667.44	37226667.54	37226667.66	0.0088	0.0049
Mercury	97211-04-18 02:09 G	37226755.50	37226755.59	37226755.70	0.0088	0.0056
Mercury	97211-07-15 03:21 G	37226843.56	37226843.64	37226843.74	0.0088	0.0063
Mercury	97211-10-11 04:33 G	37226931.62	37226931.69	37226931.78	0.0088	0.0070
Mercury	97212-01-07 05:45 G	37227019.69	37227019.74	37227019.82	0.0088	0.0077
Mercury	97212-04-04 07:12 G	37227107.77	37227107.80	37227107.85	0.0088	0.0084
Venus	97238-05-23 06:00 G	37236652.69	37236652.75	37236652.85	0.0088	0.0082
Venus	97239-01-03 19:40 G	37236878.20	37236878.32	37236878.46	0.0088	0.0071
Venus	97239-08-17 08:52 G	37237103.73	37237103.87	37237104.05	0.0088	0.0061
Venus	97240-03-29 22:19 G	37237329.26	37237329.43	37237329.62	0.0088	0.0050

Venus	97240-11-10 11:31 G	37237554.79	37237554.98	37237555.19	0.0088	0.0040
Venus	97241-06-24 00:57 G	37237780.34	37237780.54	37237780.76	0.0088	0.0029
Venus	97242-02-04 14:09 G	37238005.89	37238006.09	37238006.32	0.0088	0.0019
Earth	97242-03-13 17:31 G	37238043.11	37238043.23	37238043.41	0.0088	0.0073
Moon	97242-03-13 21:21 G	37238043.25	37238043.39	37238043.55	0.0088	0.0071 *
Venus	97242-09-18 03:35 G	37238231.43	37238231.65	37238231.88	0.0088	0.0008
Moon	97243-03-16 02:38 G	37238410.42	37238410.61	37238410.83	0.0088	0.0055
Earth	97243-03-16 06:28 G	37238410.57	37238410.77	37238410.98	0.0088	0.0054 *
Venus	97243-05-01 17:02 G	37238456.98	37238457.21	37238457.43	0.0088	0.0003
Venus	97243-12-13 06:00 G	37238682.54	37238682.75	37238682.98	0.0088	0.0014
Earth	97244-03-17 18:28 G	37238778.04	37238778.27	37238778.52	0.0088	0.0036
Moon	97244-03-17 22:19 G	37238778.19	37238778.43	37238778.67	0.0088	0.0035 *
Venus	97244-07-25 19:26 G	37238908.10	37238908.31	37238908.53	0.0088	0.0024
Venus	97245-03-08 08:24 G	37239133.66	37239133.85	37239134.07	0.0088	0.0035
Moon	97245-03-20 04:04 G	37239145.43	37239145.67	37239145.93	0.0088	0.0019
Earth	97245-03-20 06:57 G	37239145.54	37239145.79	37239146.05	0.0088	0.0018 *
Venus	97245-10-19 21:35 G	37239359.22	37239359.40	37239359.60	0.0088	0.0045
Earth	97246-03-22 19:11 G	37239513.04	37239513.30	37239513.56	0.0088	0.0001
Moon	97246-03-22 21:35 G	37239513.13	37239513.40	37239513.67	0.0088	0.0000 *
Venus	97246-06-02 10:33 G	37239584.79	37239584.94	37239585.13	0.0088	0.0056
Venus	97247-01-14 00:14 G	37239810.37	37239810.51	37239810.66	0.0088	0.0066
Moon	97247-03-25 06:28 G	37239880.53	37239880.77	37239881.03	0.0088	0.0018
Earth	97247-03-25 07:26 G	37239880.55	37239880.81	37239881.07	0.0088	0.0018 *
Venus	97247-08-27 12:57 G	37240035.96	37240036.04	37240036.18	0.0088	0.0078
Moon	97248-03-26 18:57 G	37240248.05	37240248.29	37240248.55	0.0088	0.0037
Earth	97248-03-26 19:26 G	37240248.09	37240248.31	37240248.56	0.0088	0.0037 *
Venus	97248-04-09 02:24 G	37240261.59	37240261.60	37240261.64	0.0088	0.0087
Earth	97249-03-29 07:55 G	37240615.64	37240615.83	37240616.05	0.0088	0.0055
Moon	97249-03-29 09:35 G	37240615.70	37240615.90	37240616.09	0.0088	0.0056 *
Moon	97250-03-31 17:31 G	37240983.10	37240983.23	37240983.39	0.0088	0.0074

Earth	97250-03-31 20:24 G	37240983.22	37240983.35	37240983.51	0.0088	0.0073	*
Mars	97280-05-09 01:11 G	37251979.50	37251979.55	37251979.67	0.0089	0.0086	
Mars	97282-04-03 01:11 G	37252673.26	37252673.55	37252673.84	0.0089	0.0018	
Mercury	97290-05-31 07:55 G	37255653.78	37255653.83	37255653.90	0.0090	0.0085	
Mercury	97290-08-27 11:45 G	37255741.89	37255741.99	37255742.11	0.0090	0.0074	
Mercury	97290-11-23 15:35 G	37255830.02	37255830.15	37255830.30	0.0090	0.0063	
Mercury	97291-02-19 19:26 G	37255918.16	37255918.31	37255918.48	0.0090	0.0052	
Mercury	97291-05-18 23:16 G	37256006.30	37256006.47	37256006.65	0.0090	0.0041	
Mercury	97291-08-15 03:07 G	37256094.45	37256094.63	37256094.82	0.0090	0.0029	
Mercury	97291-11-11 06:57 G	37256182.60	37256182.79	37256182.99	0.0090	0.0018	
Mercury	97292-02-07 10:48 G	37256270.76	37256270.95	37256271.15	0.0090	0.0007	
Mercury	97292-05-05 14:38 G	37256358.92	37256359.11	37256359.31	0.0090	0.0004	
Mercury	97292-08-01 18:28 G	37256447.08	37256447.27	37256447.46	0.0090	0.0015	
Mercury	97292-10-28 22:04 G	37256535.24	37256535.42	37256535.61	0.0090	0.0026	
Mercury	97293-01-25 01:55 G	37256623.41	37256623.58	37256623.76	0.0090	0.0037	
Mercury	97293-04-23 05:31 G	37256711.58	37256711.73	37256711.91	0.0090	0.0048	
Mercury	97293-07-20 09:21 G	37256799.75	37256799.89	37256800.05	0.0090	0.0059	
Mercury	97293-10-16 12:57 G	37256887.93	37256888.04	37256888.18	0.0090	0.0070	
Mercury	97294-01-12 16:33 G	37256976.13	37256976.19	37256976.29	0.0090	0.0081	
Venus	97319-11-26 06:57 G	37266423.71	37266423.79	37266423.90	0.0090	0.0080	
Venus	97320-07-08 20:09 G	37266649.20	37266649.34	37266649.48	0.0090	0.0069	
Venus	97321-02-19 08:24 G	37266874.70	37266874.85	37266875.03	0.0089	0.0059	
Venus	97321-10-02 21:07 G	37267100.21	37267100.38	37267100.58	0.0089	0.0048	
Venus	97322-05-16 10:04 G	37267325.72	37267325.92	37267326.12	0.0089	0.0037	
Moon	97322-09-10 19:26 G	37267443.22	37267443.31	37267443.43	0.0089	0.0082	
Earth	97322-09-10 22:04 G	37267443.36	37267443.42	37267443.50	0.0089	0.0086	*
Venus	97322-12-27 22:48 G	37267551.24	37267551.45	37267551.66	0.0089	0.0026	
Venus	97323-08-10 11:16 G	37267776.77	37267776.97	37267777.19	0.0089	0.0016	
Earth	97323-09-13 08:38 G	37267810.72	37267810.86	37267811.05	0.0089	0.0068	
Moon	97323-09-13 11:45 G	37267810.85	37267810.99	37267811.16	0.0089	0.0071	*

Venus	97324-03-23 00:14 G	37268002.29	37268002.51	37268002.72	0.0089	0.0004
Moon	97324-09-14 16:33 G	37268177.97	37268178.19	37268178.41	0.0089	0.0045
Earth	97324-09-14 20:09 G	37268178.13	37268178.34	37268178.56	0.0089	0.0049 *
Venus	97324-11-03 12:43 G	37268227.82	37268228.03	37268228.25	0.0089	0.0007
Venus	97325-06-17 01:26 G	37268453.36	37268453.56	37268453.78	0.0089	0.0018
Earth	97325-09-17 06:43 G	37268545.56	37268545.78	37268546.04	0.0089	0.0031
Moon	97325-09-17 10:19 G	37268545.70	37268545.93	37268546.17	0.0089	0.0034 *
Venus	97326-01-28 14:09 G	37268678.90	37268679.09	37268679.31	0.0089	0.0029
Venus	97326-09-11 02:52 G	37268904.44	37268904.62	37268904.83	0.0089	0.0039
Moon	97326-09-19 15:07 G	37268912.88	37268913.13	37268913.38	0.0089	0.0009
Earth	97326-09-19 18:14 G	37268913.01	37268913.26	37268913.51	0.0089	0.0011 *
Venus	97327-04-24 15:50 G	37269129.98	37269130.16	37269130.34	0.0089	0.0050
Earth	97327-09-22 05:16 G	37269280.47	37269280.72	37269280.97	0.0089	0.0007
Moon	97327-09-22 07:26 G	37269280.55	37269280.81	37269281.07	0.0089	0.0004 *
Venus	97327-12-06 04:19 G	37269355.54	37269355.68	37269355.85	0.0089	0.0061
Venus	97328-07-18 17:16 G	37269581.10	37269581.22	37269581.36	0.0089	0.0071
Moon	97328-09-23 15:07 G	37269647.91	37269648.13	37269648.38	0.0089	0.0030
Earth	97328-09-23 15:50 G	37269647.93	37269648.16	37269648.42	0.0089	0.0026 *
Venus	97329-03-01 05:45 G	37269806.68	37269806.74	37269806.85	0.0089	0.0083
Moon	97329-09-26 03:07 G	37270015.40	37270015.63	37270015.87	0.0089	0.0042
Earth	97329-09-26 03:07 G	37270015.42	37270015.63	37270015.86	0.0089	0.0044 *
Earth	97330-09-28 13:40 G	37270382.92	37270383.07	37270383.27	0.0089	0.0063
Moon	97330-09-28 15:35 G	37270383.00	37270383.15	37270383.32	0.0089	0.0066 *
Moon	97331-09-30 21:35 G	37270750.31	37270750.40	37270750.56	0.0089	0.0079
Earth	97331-10-01 00:43 G	37270750.45	37270750.53	37270750.65	0.0089	0.0082 *
Jupiter	97341-01-12 17:45 G	37274142.01	37274142.24	37274142.60	0.0089	0.0074
Mars	97362-01-24 19:40 G	37281824.09	37281824.32	37281824.55	0.0088	0.0063
Mars	97363-12-21 11:45 G	37282519.72	37282519.99	37282520.28	0.0088	0.0048
Mercury	97371-03-20 00:28 G	37285165.48	37285165.52	37285165.57	0.0088	0.0082
Mercury	97371-06-16 01:55 G	37285253.51	37285253.58	37285253.65	0.0088	0.0075

Mercury	97371-09-12 03:07 G	37285341.55	37285341.63	37285341.71	0.0088	0.0068
Mercury	97371-12-09 04:04 G	37285429.59	37285429.67	37285429.78	0.0088	0.0062
Mercury	97372-03-06 05:31 G	37285517.63	37285517.73	37285517.84	0.0088	0.0054
Mercury	97372-06-02 06:43 G	37285605.68	37285605.78	37285605.90	0.0088	0.0048
Mercury	97372-08-29 07:55 G	37285693.72	37285693.83	37285693.96	0.0088	0.0041
Mercury	97372-11-25 09:21 G	37285781.77	37285781.89	37285782.01	0.0088	0.0034
Mercury	97373-02-21 10:33 G	37285869.82	37285869.94	37285870.07	0.0088	0.0027
Mercury	97373-05-20 11:45 G	37285957.87	37285957.99	37285958.12	0.0088	0.0020
Mercury	97373-08-16 13:11 G	37286045.92	37286046.05	37286046.18	0.0088	0.0013
Mercury	97373-11-12 14:24 G	37286133.97	37286134.10	37286134.23	0.0088	0.0006
Mercury	97374-02-08 15:35 G	37286222.02	37286222.15	37286222.28	0.0088	0.0001
Mercury	97374-05-07 16:48 G	37286310.07	37286310.20	37286310.33	0.0088	0.0008
Mercury	97374-08-03 18:00 G	37286398.12	37286398.25	37286398.38	0.0088	0.0015
Mercury	97374-10-30 19:11 G	37286486.18	37286486.30	37286486.43	0.0088	0.0022
Mercury	97375-01-26 20:38 G	37286574.23	37286574.36	37286574.48	0.0088	0.0029
Mercury	97375-04-24 21:50 G	37286662.29	37286662.41	37286662.53	0.0088	0.0036
Mercury	97375-07-21 23:02 G	37286750.35	37286750.46	37286750.58	0.0088	0.0043
Mercury	97375-10-18 00:14 G	37286838.41	37286838.51	37286838.62	0.0088	0.0050
Mercury	97376-01-14 01:26 G	37286926.47	37286926.56	37286926.67	0.0088	0.0057
Mercury	97376-04-11 02:38 G	37287014.53	37287014.61	37287014.71	0.0088	0.0064
Mercury	97376-07-08 03:50 G	37287102.60	37287102.66	37287102.75	0.0088	0.0071
Mercury	97376-10-04 05:16 G	37287190.67	37287190.72	37287190.79	0.0088	0.0078
Mercury	97376-12-31 06:28 G	37287278.75	37287278.77	37287278.81	0.0088	0.0085
Venus	97402-08-26 14:09 G	37296647.07	37296647.09	37296647.16	0.0088	0.0086
Venus	97403-04-09 03:35 G	37296872.55	37296872.65	37296872.78	0.0088	0.0075
Venus	97403-11-20 16:48 G	37297098.07	37297098.20	37297098.38	0.0088	0.0065
Venus	97404-07-03 06:28 G	37297323.61	37297323.77	37297323.96	0.0088	0.0054
Venus	97405-02-13 20:09 G	37297549.15	37297549.34	37297549.53	0.0088	0.0043
Venus	97405-09-27 09:07 G	37297774.69	37297774.88	37297775.10	0.0088	0.0033
Moon	97406-03-14 20:09 G	37297943.26	37297943.34	37297943.44	0.0088	0.0082



Earth	97406-03-14 23:31 G	37297943.37	37297943.48	37297943.61	0.0088	0.0078	*
Venus	97406-05-10 22:48 G	37298000.23	37298000.45	37298000.67	0.0088	0.0022	
Venus	97406-12-22 12:00 G	37298225.79	37298226.00	37298226.23	0.0088	0.0012	
Earth	97407-03-17 11:45 G	37298310.81	37298310.99	37298311.19	0.0088	0.0060	
Moon	97407-03-17 14:38 G	37298310.92	37298311.11	37298311.33	0.0088	0.0056	*
Venus	97407-08-05 01:26 G	37298451.34	37298451.56	37298451.79	0.0088	0.0002	
Venus	97408-03-17 14:38 G	37298676.89	37298677.11	37298677.34	0.0088	0.0010	
Moon	97408-03-18 21:35 G	37298678.20	37298678.40	37298678.64	0.0088	0.0047	
Earth	97408-03-19 00:00 G	37298678.29	37298678.50	37298678.75	0.0088	0.0042	*
Venus	97408-10-29 04:04 G	37298902.45	37298902.67	37298902.88	0.0088	0.0020	
Earth	97409-03-21 12:28 G	37299045.78	37299046.02	37299046.28	0.0088	0.0024	
Moon	97409-03-21 13:11 G	37299045.80	37299046.05	37299046.33	0.0088	0.0020	*
Venus	97409-06-11 17:02 G	37299128.01	37299128.21	37299128.43	0.0088	0.0031	
Venus	97410-01-23 06:14 G	37299353.58	37299353.76	37299353.97	0.0088	0.0042	
Earth	97410-03-24 00:57 G	37299413.28	37299413.54	37299413.80	0.0088	0.0005	
Moon	97410-03-24 00:43 G	37299413.28	37299413.53	37299413.79	0.0088	0.0010	*
Venus	97410-09-05 19:40 G	37299579.15	37299579.32	37299579.51	0.0088	0.0052	
Moon	97411-03-26 11:31 G	37299780.73	37299780.98	37299781.26	0.0088	0.0018	
Earth	97411-03-26 12:57 G	37299780.79	37299781.04	37299781.31	0.0088	0.0013	*
Venus	97411-04-19 08:24 G	37299804.72	37299804.85	37299805.03	0.0088	0.0063	
Venus	97411-11-30 21:50 G	37300030.31	37300030.41	37300030.55	0.0088	0.0073	
Earth	97412-03-28 01:26 G	37300148.32	37300148.56	37300148.81	0.0088	0.0031	
Moon	97412-03-28 03:50 G	37300148.43	37300148.66	37300148.92	0.0088	0.0027	*
Venus	97412-07-13 11:31 G	37300255.91	37300255.98	37300256.05	0.0088	0.0084	
Moon	97413-03-30 10:19 G	37300515.74	37300515.93	37300516.16	0.0088	0.0054	
Earth	97413-03-30 13:55 G	37300515.87	37300516.08	37300516.30	0.0088	0.0049	*
Earth	97414-04-02 01:40 G	37300883.43	37300883.57	37300883.76	0.0088	0.0068	
Moon	97414-04-02 05:16 G	37300883.57	37300883.72	37300883.93	0.0088	0.0064	*
Earth	97415-04-04 13:55 G	37301251.06	37301251.08	37301251.17	0.0088	0.0087	
Mars	97445-11-18 03:35 G	37312436.36	37312436.65	37312436.94	0.0089	0.0022	

Mars	97447-10-13 01:40 G	37313130.47	37313130.57	37313130.72	0.0089	0.0081
Mercury	97455-02-27 05:16 G	37315824.65	37315824.72	37315824.79	0.0090	0.0083
Mercury	97455-05-26 09:07 G	37315912.77	37315912.88	37315913.00	0.0090	0.0072
Mercury	97455-08-22 12:43 G	37316000.90	37316001.03	37316001.18	0.0090	0.0061
Mercury	97455-11-18 16:33 G	37316089.04	37316089.19	37316089.36	0.0090	0.0050
Mercury	97456-02-14 20:24 G	37316177.18	37316177.35	37316177.53	0.0090	0.0039
Mercury	97456-05-13 00:14 G	37316265.33	37316265.51	37316265.70	0.0090	0.0028
Mercury	97456-08-09 04:04 G	37316353.48	37316353.67	37316353.87	0.0090	0.0017
Mercury	97456-11-05 07:55 G	37316441.64	37316441.83	37316442.03	0.0090	0.0006
Mercury	97457-02-01 11:45 G	37316529.79	37316529.99	37316530.19	0.0090	0.0005
Mercury	97457-04-30 15:21 G	37316617.96	37316618.14	37316618.34	0.0090	0.0017
Mercury	97457-07-27 19:11 G	37316706.12	37316706.30	37316706.49	0.0090	0.0027
Mercury	97457-10-23 22:48 G	37316794.29	37316794.45	37316794.64	0.0090	0.0039
Mercury	97458-01-20 02:38 G	37316882.46	37316882.61	37316882.78	0.0090	0.0050
Mercury	97458-04-18 06:14 G	37316970.63	37316970.76	37316970.92	0.0090	0.0061
Mercury	97458-07-15 09:50 G	37317058.82	37317058.91	37317059.05	0.0090	0.0072
Mercury	97458-10-11 14:09 G	37317147.02	37317147.09	37317147.17	0.0090	0.0082
Venus	97484-02-28 15:50 G	37326418.10	37326418.16	37326418.25	0.0090	0.0084
Venus	97484-10-11 04:19 G	37326643.58	37326643.68	37326643.83	0.0090	0.0074
Venus	97485-05-24 17:16 G	37326869.08	37326869.22	37326869.39	0.0089	0.0063
Venus	97486-01-05 06:00 G	37327094.59	37327094.75	37327094.94	0.0089	0.0052
Venus	97486-08-18 18:57 G	37327320.10	37327320.29	37327320.48	0.0089	0.0041
Venus	97487-04-01 07:11 G	37327545.61	37327545.80	37327546.02	0.0089	0.0031
Moon	97487-09-13 11:31 G	37327710.85	37327710.98	37327711.15	0.0089	0.0072
Earth	97487-09-13 15:07 G	37327711.00	37327711.13	37327711.29	0.0089	0.0074 *
Venus	97487-11-12 20:09 G	37327771.13	37327771.34	37327771.55	0.0089	0.0019
Venus	97488-06-25 08:52 G	37327996.66	37327996.87	37327997.09	0.0089	0.0009
Earth	97488-09-15 01:40 G	37328078.39	37328078.57	37328078.79	0.0089	0.0056
Moon	97488-09-15 05:16 G	37328078.54	37328078.72	37328078.93	0.0089	0.0058 *
Venus	97489-02-05 21:35 G	37328222.19	37328222.40	37328222.62	0.0089	0.0003

Moon	97489-09-17 11:02 G	37328445.74	37328445.96	37328446.19	0.0089	0.0035
Earth	97489-09-17 12:57 G	37328445.82	37328446.04	37328446.28	0.0089	0.0037 *
Venus	97489-09-19 10:19 G	37328447.72	37328447.93	37328448.15	0.0089	0.0013
Venus	97490-05-02 22:48 G	37328673.25	37328673.45	37328673.67	0.0089	0.0024
Earth	97490-09-20 00:00 G	37328813.26	37328813.50	37328813.76	0.0089	0.0018
Moon	97490-09-20 01:26 G	37328813.32	37328813.56	37328813.83	0.0089	0.0021 *
Venus	97490-12-14 11:31 G	37328898.79	37328898.98	37328899.19	0.0089	0.0035
Venus	97491-07-28 00:14 G	37329124.34	37329124.51	37329124.71	0.0089	0.0046
Moon	97491-09-22 10:48 G	37329180.71	37329180.95	37329181.20	0.0089	0.0003
Earth	97491-09-22 11:02 G	37329180.71	37329180.96	37329181.22	0.0089	0.0001 *
Venus	97492-03-09 12:57 G	37329349.88	37329350.04	37329350.22	0.0089	0.0056
Moon	97492-09-23 20:24 G	37329548.10	37329548.35	37329548.61	0.0089	0.0018
Earth	97492-09-23 21:50 G	37329548.17	37329548.41	37329548.67	0.0089	0.0020 *
Venus	97492-10-21 01:26 G	37329575.44	37329575.56	37329575.72	0.0089	0.0067
Venus	97493-06-03 14:38 G	37329801.01	37329801.11	37329801.22	0.0089	0.0078
Earth	97493-09-26 08:38 G	37329915.65	37329915.86	37329916.10	0.0089	0.0038
Moon	97493-09-26 10:33 G	37329915.74	37329915.94	37329916.18	0.0089	0.0041 *
Venus	97494-01-15 03:07 G	37330026.62	37330026.63	37330026.68	0.0089	0.0089
Moon	97494-09-28 16:19 G	37330283.00	37330283.18	37330283.41	0.0089	0.0054
Earth	97494-09-28 19:26 G	37330283.14	37330283.31	37330283.53	0.0089	0.0057 *
Earth	97495-10-01 06:28 G	37330650.66	37330650.77	37330650.93	0.0089	0.0075
Moon	97495-10-01 10:19 G	37330650.82	37330650.93	37330651.06	0.0089	0.0078 *
Jupiter	97507-03-10 09:21 G	37334827.46	37334827.89	37334828.37	0.0089	0.0046
Mars	97527-08-06 02:38 G	37342281.28	37342281.61	37342281.95	0.0088	0.0006
Mercury	97535-09-19 22:33 G	37345248.44	37345248.44	37345248.45	0.0088	0.0088
Mercury	97535-12-16 23:45 G	37345336.45	37345336.49	37345336.55	0.0088	0.0081
Mercury	97536-03-14 00:57 G	37345424.48	37345424.54	37345424.62	0.0088	0.0074
Mercury	97536-06-10 02:24 G	37345512.52	37345512.60	37345512.68	0.0088	0.0067
Mercury	97536-09-06 03:35 G	37345600.56	37345600.65	37345600.75	0.0088	0.0060
Mercury	97536-12-03 04:48 G	37345688.60	37345688.70	37345688.81	0.0088	0.0053

Mercury	97537-03-01 06:00 G	37345776.64	37345776.75	37345776.87	0.0088	0.0046
Mercury	97537-05-28 07:11 G	37345864.69	37345864.80	37345864.92	0.0088	0.0040
Mercury	97537-08-24 08:24 G	37345952.74	37345952.85	37345952.98	0.0088	0.0033
Mercury	97537-11-20 09:50 G	37346040.78	37346040.91	37346041.04	0.0088	0.0025
Mercury	97538-02-16 11:02 G	37346128.83	37346128.96	37346129.09	0.0088	0.0019
Mercury	97538-05-15 12:14 G	37346216.88	37346217.01	37346217.14	0.0088	0.0012
Mercury	97538-08-11 13:40 G	37346304.93	37346305.07	37346305.20	0.0088	0.0005
Mercury	97538-11-07 14:52 G	37346392.99	37346393.12	37346393.25	0.0088	0.0003
Mercury	97539-02-03 16:04 G	37346481.04	37346481.17	37346481.30	0.0088	0.0009
Mercury	97539-05-02 17:16 G	37346569.09	37346569.22	37346569.35	0.0088	0.0016
Mercury	97539-07-29 18:28 G	37346657.15	37346657.27	37346657.40	0.0088	0.0023
Mercury	97539-10-25 19:55 G	37346745.20	37346745.33	37346745.45	0.0088	0.0030
Mercury	97540-01-21 21:07 G	37346833.26	37346833.38	37346833.50	0.0088	0.0037
Mercury	97540-04-18 22:19 G	37346921.32	37346921.43	37346921.54	0.0088	0.0044
Mercury	97540-07-15 23:31 G	37347009.38	37347009.48	37347009.59	0.0088	0.0051
Mercury	97540-10-12 00:43 G	37347097.44	37347097.53	37347097.63	0.0088	0.0058
Mercury	97541-01-08 01:55 G	37347185.50	37347185.58	37347185.68	0.0088	0.0065
Mercury	97541-04-06 03:07 G	37347273.57	37347273.63	37347273.72	0.0088	0.0072
Mercury	97541-07-03 04:33 G	37347361.64	37347361.69	37347361.75	0.0088	0.0079
Mercury	97541-09-29 05:45 G	37347449.72	37347449.74	37347449.77	0.0088	0.0086
Venus	97567-07-12 12:00 G	37356866.93	37356867.00	37356867.12	0.0088	0.0079
Venus	97568-02-23 01:40 G	37357092.44	37357092.57	37357092.72	0.0088	0.0068
Venus	97568-10-05 14:38 G	37357317.97	37357318.11	37357318.30	0.0088	0.0058
Venus	97569-05-19 04:19 G	37357543.50	37357543.68	37357543.88	0.0088	0.0047
Venus	97569-12-30 18:00 G	37357769.05	37357769.25	37357769.45	0.0088	0.0036
Earth	97570-03-15 04:33 G	37357843.64	37357843.69	37357843.79	0.0088	0.0084
Moon	97570-03-15 07:11 G	37357843.78	37357843.80	37357843.85	0.0088	0.0087 *
Venus	97570-08-13 07:11 G	37357994.59	37357994.80	37357995.02	0.0088	0.0026
Moon	97571-03-17 16:19 G	37358211.01	37358211.18	37358211.36	0.0088	0.0063
Earth	97571-03-17 17:16 G	37358211.06	37358211.22	37358211.41	0.0088	0.0066 *

Venus	97571-03-26 20:38 G	37358220.14	37358220.36	37358220.58	0.0088	0.0015
Venus	97571-11-07 09:50 G	37358445.69	37358445.91	37358446.14	0.0088	0.0005
Earth	97572-03-19 05:31 G	37358578.53	37358578.73	37358578.97	0.0088	0.0048
Moon	97572-03-19 06:14 G	37358578.55	37358578.76	37358578.99	0.0088	0.0050 *
Venus	97572-06-19 23:16 G	37358671.25	37358671.47	37358671.69	0.0088	0.0006
Venus	97573-01-31 12:28 G	37358896.81	37358897.02	37358897.25	0.0088	0.0017
Earth	97573-03-21 18:14 G	37358946.02	37358946.26	37358946.51	0.0088	0.0029
Moon	97573-03-21 19:40 G	37358946.08	37358946.32	37358946.56	0.0088	0.0026 *
Venus	97573-09-14 01:55 G	37359122.37	37359122.58	37359122.80	0.0088	0.0027
Moon	97574-03-24 04:19 G	37359313.42	37359313.68	37359313.95	0.0088	0.0014
Earth	97574-03-24 06:28 G	37359313.52	37359313.77	37359314.04	0.0088	0.0011 *
Venus	97574-04-27 14:52 G	37359347.93	37359348.12	37359348.34	0.0088	0.0038
Venus	97574-12-09 04:33 G	37359573.50	37359573.69	37359573.87	0.0088	0.0048
Earth	97575-03-26 18:57 G	37359681.03	37359681.29	37359681.55	0.0088	0.0007
Moon	97575-03-26 21:35 G	37359681.16	37359681.40	37359681.67	0.0088	0.0010 *
Venus	97575-07-22 17:31 G	37359799.08	37359799.23	37359799.41	0.0088	0.0059
Venus	97576-03-04 06:28 G	37360024.66	37360024.77	37360024.93	0.0088	0.0070
Moon	97576-03-28 03:21 G	37360048.40	37360048.64	37360048.91	0.0088	0.0023
Earth	97576-03-28 07:11 G	37360048.56	37360048.80	37360049.06	0.0088	0.0026 *
Venus	97576-10-15 19:40 G	37360250.25	37360250.32	37360250.43	0.0088	0.0080
Earth	97577-03-30 19:11 G	37360416.09	37360416.30	37360416.54	0.0088	0.0044
Moon	97577-03-30 22:48 G	37360416.24	37360416.45	37360416.69	0.0088	0.0046 *
Moon	97578-04-02 04:33 G	37360783.50	37360783.69	37360783.87	0.0088	0.0061
Earth	97578-04-02 07:40 G	37360783.65	37360783.82	37360784.01	0.0088	0.0062 *
Earth	97579-04-04 19:55 G	37361151.24	37361151.33	37361151.45	0.0088	0.0081
Moon	97579-04-04 22:33 G	37361151.36	37361151.44	37361151.54	0.0088	0.0083 *
Mars	97609-07-04 03:07 G	37372199.45	37372199.63	37372199.88	0.0089	0.0062
Mars	97611-05-29 05:31 G	37372893.48	37372893.73	37372894.00	0.0089	0.0042
Mercury	97619-11-25 01:55 G	37375995.53	37375995.58	37375995.69	0.0090	0.0082
Mercury	97620-02-21 05:45 G	37376083.64	37376083.74	37376083.89	0.0090	0.0071

Mercury	97620-05-19 10:04 G	37376171.78	37376171.92	37376172.07	0.0090	0.0059
Mercury	97620-08-15 13:55 G	37376259.92	37376260.08	37376260.25	0.0090	0.0048
Mercury	97620-11-11 17:45 G	37376348.06	37376348.24	37376348.42	0.0090	0.0037
Mercury	97621-02-07 21:35 G	37376436.21	37376436.40	37376436.59	0.0090	0.0026
Mercury	97621-05-07 01:26 G	37376524.37	37376524.56	37376524.75	0.0090	0.0015
Mercury	97621-08-03 05:16 G	37376612.52	37376612.72	37376612.91	0.0090	0.0004
Mercury	97621-10-30 08:52 G	37376700.68	37376700.87	37376701.07	0.0090	0.0008
Mercury	97622-01-26 12:43 G	37376788.84	37376789.03	37376789.23	0.0090	0.0018
Mercury	97622-04-24 16:19 G	37376877.01	37376877.18	37376877.38	0.0090	0.0030
Mercury	97622-07-21 20:09 G	37376965.17	37376965.34	37376965.52	0.0090	0.0040
Mercury	97622-10-17 23:45 G	37377053.35	37377053.49	37377053.67	0.0090	0.0052
Mercury	97623-01-14 03:35 G	37377141.52	37377141.65	37377141.80	0.0090	0.0063
Mercury	97623-04-12 07:11 G	37377229.71	37377229.80	37377229.93	0.0090	0.0074
Mercury	97623-07-09 11:31 G	37377317.91	37377317.98	37377318.04	0.0090	0.0084
Venus	97648-06-02 00:43 G	37386412.50	37386412.53	37386412.58	0.0090	0.0088
Venus	97649-01-13 13:11 G	37386637.97	37386638.05	37386638.18	0.0090	0.0078
Venus	97649-08-27 01:55 G	37386863.46	37386863.58	37386863.74	0.0089	0.0067
Venus	97650-04-09 14:52 G	37387088.96	37387089.12	37387089.30	0.0089	0.0056
Venus	97650-11-21 03:21 G	37387314.47	37387314.64	37387314.84	0.0089	0.0045
Venus	97651-07-04 16:19 G	37387539.99	37387540.18	37387540.39	0.0089	0.0034
Earth	97651-09-13 21:21 G	37387611.29	37387611.39	37387611.51	0.0089	0.0080
Moon	97651-09-13 23:31 G	37387611.37	37387611.48	37387611.65	0.0089	0.0076 *
Venus	97652-02-15 05:02 G	37387765.51	37387765.71	37387765.93	0.0089	0.0024
Moon	97652-09-15 06:28 G	37387978.61	37387978.77	37387978.94	0.0089	0.0066
Earth	97652-09-15 08:09 G	37387978.67	37387978.84	37387979.04	0.0089	0.0062 *
Venus	97652-09-27 17:45 G	37387991.03	37387991.24	37387991.46	0.0089	0.0013
Venus	97653-05-11 06:28 G	37388216.56	37388216.77	37388216.99	0.0089	0.0002
Moon	97653-09-17 19:55 G	37388346.09	37388346.33	37388346.57	0.0089	0.0038
Earth	97653-09-17 19:26 G	37388346.10	37388346.31	37388346.54	0.0089	0.0043 *
Venus	97653-12-22 19:11 G	37388442.09	37388442.30	37388442.52	0.0089	0.0009

Venus	97654-08-05 07:55 G	37388667.62	37388667.83	37388668.04	0.0089	0.0020
Earth	97654-09-20 06:14 G	37388713.53	37388713.76	37388714.02	0.0089	0.0024
Moon	97654-09-20 06:57 G	37388713.57	37388713.79	37388714.04	0.0089	0.0029 *
Venus	97655-03-18 20:24 G	37388893.16	37388893.35	37388893.56	0.0089	0.0031
Moon	97655-09-22 15:50 G	37389080.90	37389081.16	37389081.42	0.0089	0.0001
Earth	97655-09-22 17:31 G	37389080.98	37389081.23	37389081.48	0.0089	0.0005 *
Venus	97655-10-30 09:07 G	37389118.70	37389118.88	37389119.08	0.0089	0.0041
Venus	97656-06-11 21:35 G	37389344.24	37389344.40	37389344.60	0.0089	0.0053
Earth	97656-09-24 04:19 G	37389448.43	37389448.68	37389448.93	0.0089	0.0013
Moon	97656-09-24 07:26 G	37389448.56	37389448.81	37389449.06	0.0089	0.0009 *
Venus	97657-01-23 10:19 G	37389569.80	37389569.93	37389570.10	0.0089	0.0063
Venus	97657-09-05 23:16 G	37389795.36	37389795.47	37389795.60	0.0089	0.0074
Moon	97657-09-26 11:45 G	37389815.77	37389815.99	37389816.24	0.0089	0.0037
Earth	97657-09-26 14:52 G	37389815.90	37389816.12	37389816.38	0.0089	0.0033 *
Venus	97658-04-19 11:45 G	37390020.94	37390020.99	37390021.08	0.0089	0.0085
Earth	97658-09-29 02:09 G	37390183.39	37390183.59	37390183.81	0.0089	0.0051
Moon	97658-09-29 05:31 G	37390183.53	37390183.73	37390183.97	0.0089	0.0047 *
Moon	97659-10-01 09:35 G	37390550.79	37390550.90	37390551.06	0.0089	0.0074
Earth	97659-10-01 12:43 G	37390550.89	37390551.03	37390551.21	0.0089	0.0069 *
Earth	97660-10-03 00:00 G	37390918.47	37390918.50	37390918.56	0.0089	0.0087
Moon	97660-10-03 02:24 G	37390918.53	37390918.60	37390918.71	0.0089	0.0083 *
Mars	97691-03-19 18:43 G	37402042.99	37402043.28	37402043.60	0.0088	0.0035
Mars	97693-02-12 10:04 G	37402738.77	37402738.92	37402739.11	0.0088	0.0075
Mercury	97700-06-16 21:50 G	37405419.40	37405419.41	37405419.44	0.0088	0.0086
Mercury	97700-09-12 23:16 G	37405507.42	37405507.47	37405507.52	0.0088	0.0079
Mercury	97700-12-10 00:28 G	37405595.45	37405595.52	37405595.59	0.0088	0.0072
Mercury	97701-03-08 01:26 G	37405683.49	37405683.56	37405683.66	0.0088	0.0066
Mercury	97701-06-04 02:38 G	37405771.53	37405771.61	37405771.72	0.0088	0.0059
Mercury	97701-08-31 04:04 G	37405859.57	37405859.67	37405859.78	0.0088	0.0052
Mercury	97701-11-27 05:16 G	37405947.62	37405947.72	37405947.84	0.0088	0.0045

Mercury	97702-02-23 06:43 G	37406035.66	37406035.78	37406035.90	0.0088	0.0038
Mercury	97702-05-22 07:55 G	37406123.71	37406123.83	37406123.96	0.0088	0.0031
Mercury	97702-08-18 09:07 G	37406211.76	37406211.88	37406212.01	0.0088	0.0024
Mercury	97702-11-14 10:33 G	37406299.81	37406299.94	37406300.07	0.0088	0.0017
Mercury	97703-02-10 11:45 G	37406387.86	37406387.99	37406388.12	0.0088	0.0010
Mercury	97703-05-09 12:57 G	37406475.91	37406476.04	37406476.17	0.0088	0.0003
Mercury	97703-08-05 14:09 G	37406563.96	37406564.09	37406564.22	0.0088	0.0004
Mercury	97703-11-01 15:21 G	37406652.01	37406652.14	37406652.27	0.0088	0.0011
Mercury	97704-01-28 16:48 G	37406740.07	37406740.20	37406740.33	0.0088	0.0018
Mercury	97704-04-25 18:00 G	37406828.12	37406828.25	37406828.37	0.0088	0.0025
Mercury	97704-07-22 19:11 G	37406916.18	37406916.30	37406916.42	0.0088	0.0032
Mercury	97704-10-18 20:24 G	37407004.23	37407004.35	37407004.47	0.0088	0.0039
Mercury	97705-01-14 21:35 G	37407092.29	37407092.40	37407092.52	0.0088	0.0046
Mercury	97705-04-12 22:48 G	37407180.35	37407180.45	37407180.56	0.0088	0.0053
Mercury	97705-07-10 00:00 G	37407268.41	37407268.50	37407268.61	0.0088	0.0060
Mercury	97705-10-06 01:11 G	37407356.48	37407356.55	37407356.65	0.0088	0.0067
Mercury	97706-01-02 02:24 G	37407444.55	37407444.60	37407444.69	0.0088	0.0074
Mercury	97706-03-31 03:50 G	37407532.62	37407532.66	37407532.72	0.0088	0.0081
Mercury	97706-06-27 05:02 G	37407620.71	37407620.71	37407620.73	0.0088	0.0088
Venus	97731-10-14 21:07 G	37416861.32	37416861.38	37416861.47	0.0088	0.0082
Venus	97732-05-27 10:04 G	37417086.82	37417086.92	37417087.08	0.0088	0.0072
Venus	97733-01-08 00:00 G	37417312.35	37417312.50	37417312.67	0.0088	0.0061
Venus	97733-08-21 12:57 G	37417537.88	37417538.04	37417538.25	0.0088	0.0051
Moon	97734-03-15 11:02 G	37417743.94	37417743.96	37417744.00	0.0088	0.0087
Venus	97734-04-04 02:38 G	37417763.42	37417763.61	37417763.82	0.0088	0.0040
Venus	97734-11-15 16:04 G	37417988.96	37417989.17	37417989.39	0.0088	0.0029
Moon	97735-03-17 22:04 G	37418111.31	37418111.42	37418111.60	0.0088	0.0074
Earth	97735-03-18 00:00 G	37418111.35	37418111.50	37418111.65	0.0088	0.0071 *
Venus	97735-06-29 05:16 G	37418214.51	37418214.72	37418214.95	0.0088	0.0019
Venus	97736-02-09 18:57 G	37418440.07	37418440.29	37418440.51	0.0088	0.0008



Earth	97736-03-19 12:00 G	37418478.80	37418479.00	37418479.22	0.0088	0.0053
Moon	97736-03-19 13:40 G	37418478.87	37418479.07	37418479.29	0.0088	0.0050 *
Venus	97736-09-22 08:24 G	37418665.62	37418665.85	37418666.07	0.0088	0.0003
Moon	97737-03-21 21:07 G	37418846.16	37418846.38	37418846.64	0.0088	0.0038
Earth	97737-03-22 00:28 G	37418846.29	37418846.52	37418846.77	0.0088	0.0035 *
Venus	97737-05-05 21:35 G	37418891.18	37418891.40	37418891.62	0.0088	0.0013
Venus	97737-12-17 10:48 G	37419116.74	37419116.95	37419117.17	0.0088	0.0024
Earth	97738-03-24 12:43 G	37419213.79	37419214.03	37419214.30	0.0088	0.0017
Moon	97738-03-24 16:19 G	37419213.93	37419214.18	37419214.44	0.0088	0.0014 *
Venus	97738-07-31 00:00 G	37419342.31	37419342.50	37419342.72	0.0088	0.0035
Venus	97739-03-13 13:26 G	37419567.88	37419568.06	37419568.26	0.0088	0.0045
Moon	97739-03-26 21:50 G	37419581.15	37419581.41	37419581.68	0.0088	0.0002
Earth	97739-03-27 01:40 G	37419581.31	37419581.57	37419581.83	0.0088	0.0002 *
Venus	97739-10-25 02:24 G	37419793.45	37419793.60	37419793.79	0.0088	0.0056
Earth	97740-03-28 13:55 G	37419948.83	37419949.08	37419949.34	0.0088	0.0020
Moon	97740-03-28 17:16 G	37419948.97	37419949.22	37419949.48	0.0088	0.0024 *
Venus	97740-06-06 15:50 G	37420019.03	37420019.16	37420019.32	0.0088	0.0066
Venus	97741-01-18 05:02 G	37420244.63	37420244.71	37420244.84	0.0088	0.0077
Moon	97741-03-30 23:16 G	37420316.26	37420316.47	37420316.72	0.0088	0.0036
Earth	97741-03-31 01:55 G	37420316.36	37420316.58	37420316.83	0.0088	0.0039 *
Venus	97741-08-31 18:28 G	37420470.26	37420470.27	37420470.31	0.0088	0.0087
Earth	97742-04-02 14:09 G	37420683.91	37420684.09	37420684.31	0.0088	0.0057
Moon	97742-04-02 16:19 G	37420684.00	37420684.18	37420684.39	0.0088	0.0061 *
Moon	97743-04-05 01:55 G	37421051.46	37421051.58	37421051.75	0.0088	0.0073
Earth	97743-04-05 02:38 G	37421051.49	37421051.61	37421051.76	0.0088	0.0076 *
Mars	97775-01-12 08:24 G	37432656.56	37432656.85	37432657.15	0.0089	0.0004
Mercury	97784-05-25 20:09 G	37436078.34	37436078.34	37436078.35	0.0090	0.0089
Mercury	97784-08-21 23:45 G	37436166.41	37436166.49	37436166.60	0.0090	0.0079
Mercury	97784-11-18 03:35 G	37436254.54	37436254.65	37436254.79	0.0090	0.0068
Mercury	97785-02-14 07:26 G	37436342.67	37436342.81	37436342.97	0.0090	0.0057

Mercury	97785-05-13 11:16 G	37436430.81	37436430.97	37436431.15	0.0090	0.0046
Mercury	97785-08-09 15:07 G	37436518.96	37436519.13	37436519.32	0.0090	0.0035
Mercury	97785-11-05 18:57 G	37436607.11	37436607.29	37436607.49	0.0090	0.0024
Mercury	97786-02-01 22:48 G	37436695.26	37436695.45	37436695.65	0.0090	0.0013
Mercury	97786-05-01 02:38 G	37436783.42	37436783.61	37436783.81	0.0090	0.0002
Mercury	97786-07-28 06:28 G	37436871.58	37436871.77	37436871.97	0.0090	0.0010
Mercury	97786-10-24 10:19 G	37436959.74	37436959.93	37436960.12	0.0090	0.0021
Mercury	97787-01-20 13:55 G	37437047.90	37437048.08	37437048.27	0.0090	0.0032
Mercury	97787-04-18 17:45 G	37437136.07	37437136.24	37437136.42	0.0090	0.0043
Mercury	97787-07-15 21:21 G	37437224.25	37437224.39	37437224.56	0.0090	0.0054
Mercury	97787-10-12 01:11 G	37437312.42	37437312.55	37437312.69	0.0090	0.0065
Mercury	97788-01-08 04:48 G	37437400.61	37437400.70	37437400.82	0.0090	0.0076
Mercury	97788-04-05 08:24 G	37437488.83	37437488.85	37437488.92	0.0090	0.0087
Venus	97813-04-18 23:02 G	37446632.37	37446632.46	37446632.55	0.0090	0.0081
Venus	97813-11-30 11:16 G	37446857.86	37446857.97	37446858.13	0.0090	0.0071
Venus	97814-07-14 00:14 G	37447083.37	37447083.51	37447083.69	0.0089	0.0060
Venus	97815-02-24 13:11 G	37447308.88	37447309.05	37447309.24	0.0089	0.0049
Moon	97815-09-15 04:04 G	37447511.61	37447511.67	37447511.74	0.0089	0.0086
Earth	97815-09-15 04:48 G	37447511.63	37447511.70	37447511.77	0.0089	0.0086 *
Venus	97815-10-08 01:40 G	37447534.39	37447534.57	37447534.78	0.0089	0.0038
Venus	97816-05-20 14:24 G	37447759.91	37447760.10	37447760.32	0.0089	0.0028
Moon	97816-09-16 15:35 G	37447878.99	37447879.15	37447879.34	0.0089	0.0067
Earth	97816-09-16 15:21 G	37447879.00	37447879.14	37447879.33	0.0089	0.0068 *
Venus	97817-01-01 03:21 G	37447985.43	37447985.64	37447985.85	0.0089	0.0016
Venus	97817-08-14 16:04 G	37448210.96	37448211.17	37448211.39	0.0089	0.0006
Earth	97817-09-19 02:38 G	37448246.41	37448246.61	37448246.83	0.0089	0.0049
Moon	97817-09-19 04:19 G	37448246.48	37448246.68	37448246.89	0.0089	0.0049 *
Venus	97818-03-28 04:48 G	37448436.48	37448436.70	37448436.91	0.0089	0.0005
Moon	97818-09-21 10:48 G	37448613.72	37448613.95	37448614.21	0.0089	0.0031
Earth	97818-09-21 13:26 G	37448613.84	37448614.06	37448614.32	0.0089	0.0031 *

Venus	97818-11-08 17:16 G	37448662.01	37448662.22	37448662.44	0.0089	0.0016
Venus	97819-06-22 06:14 G	37448887.55	37448887.76	37448887.96	0.0089	0.0027
Earth	97819-09-24 00:28 G	37448981.27	37448981.52	37448981.78	0.0089	0.0011
Moon	97819-09-24 03:35 G	37448981.41	37448981.65	37448981.90	0.0089	0.0012 *
Venus	97820-02-02 18:43 G	37449113.09	37449113.28	37449113.48	0.0089	0.0038
Venus	97820-09-15 07:11 G	37449338.63	37449338.80	37449338.99	0.0089	0.0049
Moon	97820-09-25 07:55 G	37449348.58	37449348.83	37449349.08	0.0089	0.0008
Earth	97820-09-25 11:31 G	37449348.73	37449348.98	37449349.24	0.0089	0.0008 *
Venus	97821-04-28 19:40 G	37449564.18	37449564.32	37449564.50	0.0089	0.0059
Earth	97821-09-27 22:04 G	37449716.19	37449716.42	37449716.68	0.0089	0.0027
Moon	97821-09-28 01:40 G	37449716.33	37449716.57	37449716.82	0.0089	0.0026 *
Venus	97821-12-10 08:38 G	37449789.73	37449789.86	37449790.00	0.0089	0.0070
Venus	97822-07-23 21:07 G	37450015.31	37450015.38	37450015.49	0.0089	0.0081
Moon	97822-09-30 05:45 G	37450083.55	37450083.74	37450083.98	0.0089	0.0047
Earth	97822-09-30 09:07 G	37450083.67	37450083.88	37450084.11	0.0089	0.0045 *
Earth	97823-10-02 19:40 G	37450451.16	37450451.32	37450451.52	0.0089	0.0063
Moon	97823-10-02 21:35 G	37450451.23	37450451.40	37450451.60	0.0089	0.0062 *
Moon	97824-10-04 06:14 G	37450818.69	37450818.76	37450818.87	0.0089	0.0083
Earth	97824-10-04 06:57 G	37450818.70	37450818.79	37450818.90	0.0089	0.0082 *
Mars	97854-11-02 13:55 G	37461804.94	37461805.08	37461805.28	0.0088	0.0075
Mars	97856-09-28 03:07 G	37462500.34	37462500.63	37462500.95	0.0088	0.0035
Mercury	97865-03-14 21:07 G	37465590.36	37465590.38	37465590.42	0.0088	0.0085
Mercury	97865-06-10 22:19 G	37465678.38	37465678.43	37465678.50	0.0088	0.0078
Mercury	97865-09-06 23:31 G	37465766.42	37465766.48	37465766.57	0.0088	0.0071
Mercury	97865-12-04 00:57 G	37465854.46	37465854.54	37465854.64	0.0088	0.0064
Mercury	97866-03-02 02:09 G	37465942.50	37465942.59	37465942.70	0.0088	0.0057
Mercury	97866-05-29 03:35 G	37466030.54	37466030.65	37466030.76	0.0088	0.0050
Mercury	97866-08-25 04:48 G	37466118.59	37466118.70	37466118.82	0.0088	0.0043
Mercury	97866-11-21 06:00 G	37466206.63	37466206.75	37466206.87	0.0088	0.0036
Mercury	97867-02-17 07:26 G	37466294.68	37466294.81	37466294.93	0.0088	0.0029

Mercury	97867-05-16 08:38 G	37466382.73	37466382.86	37466382.99	0.0088	0.0022
Mercury	97867-08-12 09:50 G	37466470.78	37466470.91	37466471.04	0.0088	0.0015
Mercury	97867-11-08 11:02 G	37466558.83	37466558.96	37466559.09	0.0088	0.0008
Mercury	97868-02-04 12:14 G	37466646.88	37466647.01	37466647.15	0.0088	0.0003
Mercury	97868-05-02 13:40 G	37466734.93	37466735.07	37466735.20	0.0088	0.0006
Mercury	97868-07-29 14:52 G	37466822.99	37466823.12	37466823.25	0.0088	0.0013
Mercury	97868-10-25 16:04 G	37466911.04	37466911.17	37466911.30	0.0088	0.0020
Mercury	97869-01-21 17:16 G	37466999.10	37466999.22	37466999.35	0.0088	0.0027
Mercury	97869-04-19 18:28 G	37467087.15	37467087.27	37467087.40	0.0088	0.0034
Mercury	97869-07-16 19:40 G	37467175.21	37467175.32	37467175.44	0.0088	0.0041
Mercury	97869-10-12 20:52 G	37467263.27	37467263.37	37467263.49	0.0088	0.0048
Mercury	97870-01-08 22:04 G	37467351.33	37467351.42	37467351.54	0.0088	0.0055
Mercury	97870-04-06 23:16 G	37467439.39	37467439.47	37467439.58	0.0088	0.0062
Mercury	97870-07-04 00:43 G	37467527.46	37467527.53	37467527.62	0.0088	0.0068
Mercury	97870-09-30 02:09 G	37467615.52	37467615.59	37467615.66	0.0088	0.0075
Mercury	97870-12-27 03:21 G	37467703.60	37467703.64	37467703.69	0.0088	0.0082
Venus	97896-01-17 06:28 G	37476855.73	37476855.77	37476855.83	0.0088	0.0085
Venus	97896-08-29 19:26 G	37477081.22	37477081.31	37477081.45	0.0088	0.0075
Venus	97897-04-12 09:07 G	37477306.73	37477306.88	37477307.04	0.0088	0.0064
Venus	97897-11-23 22:04 G	37477532.26	37477532.42	37477532.62	0.0088	0.0054
Venus	97898-07-07 11:45 G	37477757.80	37477757.99	37477758.19	0.0088	0.0043
Venus	97899-02-18 00:57 G	37477983.34	37477983.54	37477983.76	0.0088	0.0033
Earth	97899-03-18 05:45 G	37478011.65	37478011.74	37478011.90	0.0088	0.0077
Moon	97899-03-18 09:07 G	37478011.79	37478011.88	37478011.98	0.0088	0.0081 *
Venus	97899-10-01 14:24 G	37478208.89	37478209.10	37478209.32	0.0088	0.0022
Moon	97900-03-20 15:07 G	37478378.95	37478379.13	37478379.36	0.0088	0.0055
Earth	97900-03-20 18:14 G	37478379.09	37478379.26	37478379.48	0.0088	0.0059 *
Venus	97900-05-15 03:50 G	37478434.44	37478434.66	37478434.88	0.0088	0.0011
Venus	97900-12-26 17:16 G	37478660.00	37478660.22	37478660.45	0.0088	0.0001
Earth	97901-03-23 06:57 G	37478746.56	37478746.79	37478747.03	0.0088	0.0040

Moon	97901-03-23 10:19 G	37478746.73	37478746.93	37478747.17	0.0088	0.0045 *
Venus	97901-08-09 06:28 G	37478885.56	37478885.77	37478886.00	0.0088	0.0010
Venus	97902-03-22 19:40 G	37479111.11	37479111.32	37479111.55	0.0088	0.0021
Moon	97902-03-25 15:50 G	37479113.92	37479114.16	37479114.43	0.0088	0.0018
Earth	97902-03-25 19:26 G	37479114.06	37479114.31	37479114.57	0.0088	0.0022 *
Venus	97902-11-03 09:07 G	37479336.68	37479336.88	37479337.09	0.0088	0.0031
Earth	97903-03-28 07:55 G	37479481.57	37479481.83	37479482.10	0.0088	0.0004
Moon	97903-03-28 11:02 G	37479481.70	37479481.96	37479482.23	0.0088	0.0007 *
Venus	97903-06-16 22:19 G	37479562.25	37479562.43	37479562.64	0.0088	0.0042
Venus	97904-01-28 12:00 G	37479787.83	37479788.00	37479788.18	0.0088	0.0052
Moon	97904-03-29 18:00 G	37479849.01	37479849.25	37479849.51	0.0088	0.0019
Earth	97904-03-29 20:09 G	37479849.09	37479849.34	37479849.61	0.0088	0.0015 *
Venus	97904-09-10 00:57 G	37480013.41	37480013.54	37480013.71	0.0088	0.0063
Earth	97905-04-01 08:52 G	37480216.63	37480216.87	37480217.11	0.0088	0.0033
Moon	97905-04-01 09:21 G	37480216.65	37480216.89	37480217.16	0.0088	0.0030 *
Venus	97905-04-23 14:38 G	37480238.99	37480239.11	37480239.23	0.0088	0.0073
Venus	97905-12-05 03:35 G	37480464.60	37480464.65	37480464.73	0.0088	0.0084
Earth	97906-04-03 20:52 G	37480584.18	37480584.37	37480584.60	0.0088	0.0052
Moon	97906-04-03 20:52 G	37480584.19	37480584.37	37480584.58	0.0088	0.0055 *
Moon	97907-04-06 08:09 G	37480951.67	37480951.84	37480952.02	0.0088	0.0066
Earth	97907-04-06 09:35 G	37480951.75	37480951.90	37480952.07	0.0088	0.0070 *
Mars	97938-08-29 11:31 G	37492419.71	37492419.98	37492420.27	0.0089	0.0033
Mars	97940-07-23 12:14 G	37493113.86	37493114.01	37493114.23	0.0089	0.0070
Mercury	97949-02-21 18:00 G	37496249.21	37496249.25	37496249.31	0.0090	0.0086
Mercury	97949-05-20 21:50 G	37496337.31	37496337.41	37496337.52	0.0090	0.0075
Mercury	97949-08-17 01:40 G	37496425.44	37496425.57	37496425.71	0.0090	0.0064
Mercury	97949-11-13 05:31 G	37496513.58	37496513.73	37496513.89	0.0090	0.0053
Mercury	97950-02-09 09:21 G	37496601.72	37496601.89	37496602.07	0.0090	0.0042
Mercury	97950-05-08 13:11 G	37496689.87	37496690.05	37496690.24	0.0090	0.0031
Mercury	97950-08-04 17:02 G	37496778.02	37496778.21	37496778.40	0.0090	0.0020

Mercury	97950-10-31 20:52 G	37496866.17	37496866.37	37496866.56	0.0090	0.0009
Mercury	97951-01-28 00:43 G	37496954.33	37496954.53	37496954.72	0.0090	0.0003
Mercury	97951-04-26 04:19 G	37497042.49	37497042.68	37497042.88	0.0090	0.0013
Mercury	97951-07-23 07:55 G	37497130.65	37497130.83	37497131.03	0.0090	0.0025
Mercury	97951-10-19 11:45 G	37497218.82	37497218.99	37497219.18	0.0090	0.0035
Mercury	97952-01-15 15:21 G	37497306.99	37497307.14	37497307.32	0.0090	0.0047
Mercury	97952-04-12 18:57 G	37497395.16	37497395.29	37497395.46	0.0090	0.0058
Mercury	97952-07-09 23:16 G	37497483.35	37497483.47	37497483.60	0.0090	0.0068
Mercury	97952-10-06 02:52 G	37497571.54	37497571.62	37497571.72	0.0090	0.0079
Venus	97977-07-22 08:38 G	37506626.81	37506626.86	37506626.95	0.0090	0.0085
Venus	97978-03-04 21:21 G	37506852.28	37506852.39	37506852.52	0.0089	0.0074
Venus	97978-10-16 09:50 G	37507077.78	37507077.91	37507078.08	0.0089	0.0064
Venus	97979-05-29 22:48 G	37507303.29	37507303.45	37507303.64	0.0089	0.0052
Venus	97980-01-10 11:31 G	37507528.80	37507528.98	37507529.18	0.0089	0.0042
Venus	97980-08-23 00:28 G	37507754.32	37507754.52	37507754.73	0.0089	0.0031
Earth	97980-09-16 23:02 G	37507779.34	37507779.46	37507779.63	0.0089	0.0074
Moon	97980-09-17 00:43 G	37507779.40	37507779.53	37507779.71	0.0089	0.0070 *
Venus	97981-04-05 13:11 G	37507979.84	37507980.05	37507980.26	0.0089	0.0020
Moon	97981-09-19 07:26 G	37508146.63	37508146.81	37508147.02	0.0089	0.0060
Earth	97981-09-19 10:33 G	37508146.75	37508146.94	37508147.15	0.0089	0.0055 *
Venus	97981-11-17 01:55 G	37508205.37	37508205.58	37508205.80	0.0089	0.0009
Venus	97982-06-30 14:52 G	37508430.90	37508431.12	37508431.33	0.0089	0.0002
Earth	97982-09-21 21:21 G	37508514.17	37508514.39	37508514.64	0.0089	0.0036
Moon	97982-09-22 00:43 G	37508514.31	37508514.53	37508514.79	0.0089	0.0032 *
Venus	97983-02-11 03:21 G	37508656.43	37508656.64	37508656.86	0.0089	0.0013
Moon	97983-09-24 05:16 G	37508881.48	37508881.72	37508881.97	0.0089	0.0022
Earth	97983-09-24 08:38 G	37508881.62	37508881.86	37508882.12	0.0089	0.0017 *
Venus	97983-09-24 15:50 G	37508881.96	37508882.16	37508882.38	0.0089	0.0024 *
Venus	97984-05-07 04:33 G	37509107.50	37509107.69	37509107.90	0.0089	0.0034
Earth	97984-09-25 19:40 G	37509249.07	37509249.32	37509249.58	0.0089	0.0002

Moon	97984-09-25 23:16 G	37509249.21	37509249.47	37509249.72	0.0089	0.0007	*
Venus	97984-12-18 17:31 G	37509333.04	37509333.23	37509333.41	0.0089	0.0045	
Venus	97985-08-01 06:00 G	37509558.59	37509558.75	37509558.93	0.0089	0.0056	
Moon	97985-09-28 04:19 G	37509616.45	37509616.68	37509616.93	0.0089	0.0016	
Earth	97985-09-28 06:28 G	37509616.53	37509616.77	37509617.03	0.0089	0.0021	*
Venus	97986-03-14 18:28 G	37509784.14	37509784.27	37509784.43	0.0089	0.0067	
Earth	97986-09-30 17:02 G	37509984.00	37509984.21	37509984.46	0.0089	0.0040	
Moon	97986-09-30 18:57 G	37509984.07	37509984.29	37509984.53	0.0089	0.0043	*
Venus	97986-10-26 06:57 G	37510009.71	37510009.79	37510009.92	0.0089	0.0078	
Venus	97987-06-08 19:55 G	37510235.31	37510235.33	37510235.38	0.0089	0.0088	
Moon	97987-10-03 03:50 G	37510351.48	37510351.66	37510351.87	0.0089	0.0053	
Earth	97987-10-03 04:19 G	37510351.49	37510351.68	37510351.88	0.0089	0.0058	*
Moon	97988-10-04 13:26 G	37510718.97	37510719.06	37510719.19	0.0089	0.0081	
Earth	97988-10-04 14:38 G	37510719.01	37510719.11	37510719.27	0.0089	0.0077	*

# 99TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 99th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	98020-05-13 00:00 G		37522262.17	37522262.50	37522262.83	0.0088	0.0005	
Mercury	98029-12-10 20:24 G		37525761.33	37525761.35	37525761.41	0.0088	0.0083	
Mercury	98030-03-08 21:50 G		37525849.36	37525849.41	37525849.49	0.0088	0.0076	
Mercury	98030-06-04 23:02 G		37525937.39	37525937.46	37525937.55	0.0088	0.0069	

Mercury	98030-09-01 00:28 G	37526025.43	37526025.52	37526025.62	0.0088	0.0062
Mercury	98030-11-28 01:40 G	37526113.47	37526113.57	37526113.68	0.0088	0.0055
Mercury	98031-02-24 02:52 G	37526201.52	37526201.62	37526201.74	0.0088	0.0048
Mercury	98031-05-23 04:19 G	37526289.56	37526289.68	37526289.80	0.0088	0.0041
Mercury	98031-08-19 05:31 G	37526377.61	37526377.73	37526377.85	0.0088	0.0034
Mercury	98031-11-15 06:43 G	37526465.66	37526465.78	37526465.91	0.0088	0.0027
Mercury	98032-02-11 08:09 G	37526553.71	37526553.84	37526553.96	0.0088	0.0020
Mercury	98032-05-09 09:21 G	37526641.76	37526641.89	37526642.02	0.0088	0.0013
Mercury	98032-08-05 10:33 G	37526729.81	37526729.94	37526730.07	0.0088	0.0006
Mercury	98032-11-01 11:45 G	37526817.86	37526817.99	37526818.13	0.0088	0.0002
Mercury	98033-01-28 12:57 G	37526905.91	37526906.04	37526906.18	0.0088	0.0008
Mercury	98033-04-26 14:24 G	37526993.97	37526994.10	37526994.23	0.0088	0.0015
Mercury	98033-07-23 15:35 G	37527082.02	37527082.15	37527082.28	0.0088	0.0022
Mercury	98033-10-19 16:48 G	37527170.08	37527170.20	37527170.33	0.0088	0.0029
Mercury	98034-01-15 18:00 G	37527258.13	37527258.25	37527258.38	0.0088	0.0036
Mercury	98034-04-13 19:11 G	37527346.19	37527346.30	37527346.42	0.0088	0.0043
Mercury	98034-07-10 20:24 G	37527434.25	37527434.35	37527434.47	0.0088	0.0050
Mercury	98034-10-06 21:35 G	37527522.31	37527522.40	37527522.51	0.0088	0.0057
Mercury	98035-01-02 22:48 G	37527610.38	37527610.45	37527610.56	0.0088	0.0064
Mercury	98035-04-01 00:00 G	37527698.44	37527698.50	37527698.59	0.0088	0.0071
Mercury	98035-06-28 01:26 G	37527786.51	37527786.56	37527786.63	0.0088	0.0077
Mercury	98035-09-24 02:52 G	37527874.59	37527874.62	37527874.66	0.0088	0.0084
Saturn	98050-04-01 12:00 G	37533177.44	37533178.00	37533178.62	0.0088	0.0050
Venus	98060-12-02 05:02 G	37537075.63	37537075.71	37537075.83	0.0088	0.0078
Venus	98061-07-15 18:43 G	37537301.14	37537301.28	37537301.43	0.0088	0.0067
Venus	98062-02-26 07:40 G	37537526.67	37537526.82	37537527.01	0.0088	0.0057
Venus	98062-10-09 21:21 G	37537752.21	37537752.39	37537752.59	0.0088	0.0046
Moon	98063-03-18 10:04 G	37537911.84	37537911.92	37537912.04	0.0088	0.0081
Earth	98063-03-18 13:40 G	37537912.00	37537912.07	37537912.19	0.0088	0.0082 *
Venus	98063-05-23 10:33 G	37537977.75	37537977.94	37537978.16	0.0088	0.0036



Venus	98064-01-04 00:00 G	37538203.30	37538203.50	37538203.73	0.0088	0.0025
Earth	98064-03-20 01:40 G	37538279.41	37538279.57	37538279.77	0.0088	0.0064
Moon	98064-03-20 05:02 G	37538279.57	37538279.71	37538279.91	0.0088	0.0066 *
Venus	98064-08-16 13:26 G	37538428.84	37538429.06	37538429.29	0.0088	0.0015
Moon	98065-03-22 10:33 G	37538646.74	37538646.94	37538647.19	0.0088	0.0044
Earth	98065-03-22 14:09 G	37538646.89	37538647.09	37538647.33	0.0088	0.0046 *
Venus	98065-03-30 02:52 G	37538654.39	37538654.62	37538654.84	0.0088	0.0004
Venus	98065-11-10 16:04 G	37538879.95	37538880.17	37538880.39	0.0088	0.0007
Earth	98066-03-25 02:38 G	37539014.37	37539014.61	37539014.87	0.0088	0.0027
Moon	98066-03-25 05:02 G	37539014.47	37539014.71	37539014.98	0.0088	0.0029 *
Venus	98066-06-24 05:16 G	37539105.51	37539105.72	37539105.95	0.0088	0.0018
Venus	98067-02-04 18:43 G	37539331.08	37539331.28	37539331.50	0.0088	0.0028
Moon	98067-03-27 13:26 G	37539381.81	37539382.06	37539382.31	0.0088	0.0007
Earth	98067-03-27 15:07 G	37539381.87	37539382.13	37539382.39	0.0088	0.0009 *
Venus	98067-09-18 07:55 G	37539556.64	37539556.83	37539557.04	0.0088	0.0039
Earth	98068-03-29 03:21 G	37539749.39	37539749.64	37539749.91	0.0088	0.0010
Moon	98068-03-29 04:19 G	37539749.41	37539749.68	37539749.95	0.0088	0.0007 *
Venus	98068-04-30 21:21 G	37539782.21	37539782.39	37539782.58	0.0088	0.0049
Venus	98068-12-12 10:33 G	37540007.79	37540007.94	37540008.12	0.0088	0.0060
Earth	98069-03-31 15:50 G	37540116.92	37540117.16	37540117.42	0.0088	0.0028
Moon	98069-03-31 16:48 G	37540116.97	37540117.20	37540117.45	0.0088	0.0030 *
Venus	98069-07-26 00:00 G	37540233.38	37540233.50	37540233.64	0.0088	0.0070
Venus	98070-03-08 12:57 G	37540458.98	37540459.04	37540459.15	0.0088	0.0082
Moon	98070-04-03 02:38 G	37540484.38	37540484.61	37540484.85	0.0088	0.0044
Earth	98070-04-03 04:04 G	37540484.47	37540484.67	37540484.91	0.0088	0.0047 *
Earth	98071-04-05 16:33 G	37540852.03	37540852.19	37540852.38	0.0088	0.0065
Moon	98071-04-05 19:26 G	37540852.16	37540852.31	37540852.48	0.0088	0.0068 *
Moon	98072-04-07 01:26 G	37541219.48	37541219.56	37541219.68	0.0088	0.0081
Earth	98072-04-07 05:16 G	37541219.65	37541219.72	37541219.81	0.0088	0.0084 *
Mars	98102-04-14 13:55 G	37552182.93	37552183.08	37552183.30	0.0089	0.0070

Mars	98104-03-08 18:43 G	37552877.00	37552877.28	37552877.56	0.0089	0.0033
Mercury	98113-11-19 16:04 G	37556420.10	37556420.17	37556420.26	0.0090	0.0082
Mercury	98114-02-15 19:55 G	37556508.22	37556508.33	37556508.46	0.0090	0.0071
Mercury	98114-05-14 23:45 G	37556596.35	37556596.49	37556596.64	0.0090	0.0060
Mercury	98114-08-11 03:35 G	37556684.49	37556684.65	37556684.82	0.0090	0.0049
Mercury	98114-11-07 07:26 G	37556772.63	37556772.81	37556772.99	0.0090	0.0038
Mercury	98115-02-03 11:16 G	37556860.78	37556860.97	37556861.16	0.0090	0.0027
Mercury	98115-05-02 15:07 G	37556948.93	37556949.13	37556949.32	0.0090	0.0016
Mercury	98115-07-29 18:43 G	37557037.09	37557037.28	37557037.48	0.0090	0.0006
Mercury	98115-10-25 22:33 G	37557125.25	37557125.44	37557125.64	0.0090	0.0006
Mercury	98116-01-22 02:24 G	37557213.41	37557213.60	37557213.79	0.0090	0.0017
Mercury	98116-04-19 06:14 G	37557301.57	37557301.76	37557301.95	0.0090	0.0028
Mercury	98116-07-16 09:50 G	37557389.74	37557389.91	37557390.09	0.0090	0.0039
Mercury	98116-10-12 13:40 G	37557477.91	37557478.07	37557478.24	0.0090	0.0050
Mercury	98117-01-08 17:16 G	37557566.09	37557566.22	37557566.37	0.0090	0.0061
Mercury	98117-04-06 21:07 G	37557654.27	37557654.38	37557654.50	0.0090	0.0072
Mercury	98117-07-04 00:43 G	37557742.47	37557742.53	37557742.62	0.0090	0.0083
Venus	98141-10-24 18:57 G	37566621.27	37566621.29	37566621.35	0.0090	0.0088
Venus	98142-06-07 08:09 G	37566846.73	37566846.84	37566846.95	0.0090	0.0077
Venus	98143-01-18 20:24 G	37567072.22	37567072.35	37567072.51	0.0090	0.0067
Venus	98143-09-01 09:07 G	37567297.72	37567297.88	37567298.06	0.0089	0.0056
Venus	98144-04-13 21:50 G	37567523.23	37567523.41	37567523.60	0.0089	0.0045
Moon	98144-09-17 04:33 G	37567679.58	37567679.69	37567679.83	0.0089	0.0078
Earth	98144-09-17 07:11 G	37567679.72	37567679.80	37567679.95	0.0089	0.0080 *
Venus	98144-11-25 10:19 G	37567748.75	37567748.93	37567749.14	0.0089	0.0035
Venus	98145-07-08 23:16 G	37567974.27	37567974.47	37567974.69	0.0089	0.0024
Earth	98145-09-19 18:28 G	37568047.10	37568047.27	37568047.48	0.0089	0.0061
Moon	98145-09-19 21:50 G	37568047.26	37568047.41	37568047.62	0.0089	0.0062 *
Venus	98146-02-19 12:14 G	37568199.79	37568200.01	37568200.22	0.0089	0.0012
Moon	98146-09-22 02:24 G	37568414.39	37568414.60	37568414.84	0.0089	0.0040

Earth	98146-09-22 06:00 G	37568414.53	37568414.75	37568414.98	0.0089	0.0042	*
Venus	98146-10-03 00:57 G	37568425.32	37568425.54	37568425.75	0.0089	0.0002	
Venus	98147-05-16 13:26 G	37568650.85	37568651.06	37568651.28	0.0089	0.0009	
Earth	98147-09-24 17:16 G	37568781.97	37568782.22	37568782.47	0.0089	0.0023	
Moon	98147-09-24 19:55 G	37568782.09	37568782.33	37568782.59	0.0089	0.0024	*
Venus	98147-12-28 01:55 G	37568876.38	37568876.58	37568876.81	0.0089	0.0021	
Venus	98148-08-09 14:52 G	37569101.92	37569102.12	37569102.33	0.0089	0.0031	
Moon	98148-09-26 01:55 G	37569149.34	37569149.58	37569149.83	0.0089	0.0004	
Earth	98148-09-26 04:19 G	37569149.43	37569149.68	37569149.93	0.0089	0.0004	*
Venus	98149-03-23 03:35 G	37569327.46	37569327.65	37569327.85	0.0089	0.0041	
Earth	98149-09-28 14:52 G	37569516.88	37569517.12	37569517.38	0.0089	0.0016	
Moon	98149-09-28 15:35 G	37569516.90	37569517.15	37569517.42	0.0089	0.0015	*
Venus	98149-11-03 16:04 G	37569553.01	37569553.17	37569553.36	0.0089	0.0052	
Venus	98150-06-17 04:33 G	37569778.56	37569778.69	37569778.87	0.0089	0.0064	
Earth	98150-10-01 01:55 G	37569884.35	37569884.58	37569884.82	0.0089	0.0034	
Moon	98150-10-01 01:55 G	37569884.37	37569884.58	37569884.82	0.0089	0.0035	*
Venus	98151-01-28 17:31 G	37570004.12	37570004.23	37570004.36	0.0089	0.0074	
Venus	98151-09-11 06:00 G	37570229.70	37570229.75	37570229.84	0.0089	0.0085	
Moon	98151-10-03 11:02 G	37570251.77	37570251.96	37570252.19	0.0089	0.0052	
Earth	98151-10-03 12:43 G	37570251.84	37570252.03	37570252.25	0.0089	0.0052	*
Earth	98152-10-04 23:45 G	37570619.34	37570619.49	37570619.65	0.0089	0.0071	
Moon	98152-10-05 01:55 G	37570619.46	37570619.58	37570619.75	0.0089	0.0072	*
Moon	98153-10-07 07:11 G	37570986.78	37570986.80	37570986.84	0.0089	0.0089	
Earth	98153-10-07 10:33 G	37570986.94	37570986.94	37570986.95	0.0089	0.0089	
Mars	98183-12-26 22:48 G	37582024.19	37582024.45	37582024.76	0.0088	0.0044	
Mars	98185-11-21 10:04 G	37582719.72	37582719.92	37582720.16	0.0088	0.0065	
Mercury	98194-06-11 18:57 G	37585844.29	37585844.29	37585844.31	0.0088	0.0087	
Mercury	98194-09-07 20:24 G	37585932.30	37585932.35	37585932.40	0.0088	0.0080	
Mercury	98194-12-04 21:35 G	37586020.33	37586020.40	37586020.47	0.0088	0.0073	
Mercury	98195-03-02 22:33 G	37586108.37	37586108.44	37586108.54	0.0088	0.0067	

Mercury	98195-05-29 23:45 G	37586196.41	37586196.49	37586196.60	0.0088	0.0060
Mercury	98195-08-26 01:11 G	37586284.45	37586284.55	37586284.66	0.0088	0.0053
Mercury	98195-11-22 02:24 G	37586372.50	37586372.60	37586372.72	0.0088	0.0046
Mercury	98196-02-18 03:35 G	37586460.54	37586460.65	37586460.78	0.0088	0.0039
Mercury	98196-05-16 05:02 G	37586548.59	37586548.71	37586548.84	0.0088	0.0032
Mercury	98196-08-12 06:14 G	37586636.64	37586636.76	37586636.89	0.0088	0.0025
Mercury	98196-11-08 07:40 G	37586724.69	37586724.82	37586724.95	0.0088	0.0018
Mercury	98197-02-04 08:52 G	37586812.74	37586812.87	37586813.00	0.0088	0.0011
Mercury	98197-05-03 10:04 G	37586900.79	37586900.92	37586901.05	0.0088	0.0004
Mercury	98197-07-30 11:16 G	37586988.84	37586988.97	37586989.11	0.0088	0.0004
Mercury	98197-10-26 12:43 G	37587076.90	37587077.03	37587077.16	0.0088	0.0010
Mercury	98198-01-22 13:55 G	37587164.95	37587165.08	37587165.21	0.0088	0.0017
Mercury	98198-04-20 15:07 G	37587253.01	37587253.13	37587253.26	0.0088	0.0024
Mercury	98198-07-17 16:19 G	37587341.06	37587341.18	37587341.31	0.0088	0.0031
Mercury	98198-10-13 17:45 G	37587429.12	37587429.24	37587429.36	0.0088	0.0038
Mercury	98199-01-09 18:57 G	37587517.18	37587517.29	37587517.40	0.0088	0.0045
Mercury	98199-04-07 20:09 G	37587605.24	37587605.34	37587605.45	0.0088	0.0052
Mercury	98199-07-04 21:21 G	37587693.30	37587693.39	37587693.49	0.0088	0.0059
Mercury	98199-09-30 22:33 G	37587781.36	37587781.44	37587781.53	0.0088	0.0066
Mercury	98199-12-27 23:45 G	37587869.43	37587869.49	37587869.57	0.0088	0.0073
Mercury	98200-03-26 00:57 G	37587957.50	37587957.54	37587957.61	0.0088	0.0080
Mercury	98200-06-22 02:09 G	37588045.59	37588045.59	37588045.62	0.0088	0.0087
Venus	98225-03-07 14:24 G	37597070.04	37597070.10	37597070.21	0.0088	0.0081
Venus	98225-10-19 04:04 G	37597295.55	37597295.67	37597295.81	0.0088	0.0070
Venus	98226-06-01 17:16 G	37597521.08	37597521.22	37597521.40	0.0088	0.0060
Venus	98227-01-13 06:57 G	37597746.62	37597746.79	37597746.99	0.0088	0.0049
Earth	98227-03-19 21:07 G	37597812.37	37597812.38	37597812.44	0.0088	0.0087
Moon	98227-03-20 00:57 G	37597812.47	37597812.54	37597812.65	0.0088	0.0082
Venus	98227-08-26 20:09 G	37597972.16	37597972.34	37597972.56	0.0088	0.0039
Moon	98228-03-21 06:57 G	37598179.66	37598179.79	37598179.94	0.0088	0.0073

Earth	98228-03-21 09:35 G	37598179.76	37598179.90	37598180.08	0.0088	0.0069 *
Venus	98228-04-08 09:50 G	37598197.70	37598197.91	37598198.13	0.0088	0.0028
Venus	98228-11-19 23:16 G	37598423.25	37598423.47	37598423.69	0.0088	0.0017
Earth	98229-03-23 21:50 G	37598547.22	37598547.41	37598547.64	0.0088	0.0051
Moon	98229-03-24 00:43 G	37598547.31	37598547.53	37598547.77	0.0088	0.0046 *
Venus	98229-07-03 12:28 G	37598648.80	37598649.02	37598649.25	0.0088	0.0007
Venus	98230-02-14 01:55 G	37598874.36	37598874.58	37598874.81	0.0088	0.0004
Moon	98230-03-26 09:21 G	37598914.67	37598914.89	37598915.13	0.0088	0.0037
Earth	98230-03-26 10:19 G	37598914.70	37598914.93	37598915.19	0.0088	0.0032 *
Venus	98230-09-27 15:07 G	37599099.92	37599100.13	37599100.36	0.0088	0.0015
Moon	98231-03-28 22:33 G	37599282.18	37599282.44	37599282.72	0.0088	0.0010
Earth	98231-03-28 22:48 G	37599282.20	37599282.45	37599282.71	0.0088	0.0014 *
Venus	98231-05-11 04:33 G	37599325.48	37599325.69	37599325.91	0.0088	0.0025
Venus	98231-12-22 17:45 G	37599551.05	37599551.24	37599551.45	0.0088	0.0036
Earth	98232-03-30 11:02 G	37599649.71	37599649.96	37599650.23	0.0088	0.0005
Moon	98232-03-30 12:14 G	37599649.76	37599650.01	37599650.26	0.0088	0.0001 *
Venus	98232-08-04 07:11 G	37599776.62	37599776.80	37599777.00	0.0088	0.0046
Venus	98233-03-17 20:24 G	37600002.19	37600002.35	37600002.53	0.0088	0.0057
Moon	98233-04-01 20:38 G	37600017.13	37600017.36	37600017.63	0.0088	0.0028
Earth	98233-04-01 23:31 G	37600017.24	37600017.48	37600017.74	0.0088	0.0023 *
Venus	98233-10-29 09:21 G	37600227.77	37600227.89	37600228.06	0.0088	0.0068
Earth	98234-04-04 11:45 G	37600384.78	37600384.99	37600385.24	0.0088	0.0042
Moon	98234-04-04 15:07 G	37600384.90	37600385.13	37600385.37	0.0088	0.0038 *
Venus	98234-06-11 22:48 G	37600453.37	37600453.45	37600453.57	0.0088	0.0078
Moon	98235-04-06 20:38 G	37600752.20	37600752.36	37600752.56	0.0088	0.0065
Earth	98235-04-07 00:14 G	37600752.34	37600752.51	37600752.72	0.0088	0.0060 *
Earth	98236-04-08 12:57 G	37601119.93	37601120.04	37601120.17	0.0088	0.0079
Moon	98236-04-08 16:19 G	37601120.06	37601120.18	37601120.35	0.0088	0.0074 *
Jupiter	98248-08-08 01:26 G	37605624.02	37605624.56	37605625.13	0.0089	0.0006
Mars	98267-10-23 21:21 G	37612640.10	37612640.39	37612640.70	0.0089	0.0004

Mercury	98278-05-21 10:19 G	37616502.92	37616502.93	37616502.99	0.0090	0.0089
Mercury	98278-08-17 14:09 G	37616591.01	37616591.09	37616591.21	0.0090	0.0078
Mercury	98278-11-13 18:00 G	37616679.14	37616679.25	37616679.40	0.0090	0.0067
Mercury	98279-02-09 21:50 G	37616767.28	37616767.41	37616767.58	0.0090	0.0056
Mercury	98279-05-09 01:40 G	37616855.42	37616855.57	37616855.76	0.0090	0.0045
Mercury	98279-08-05 05:31 G	37616943.56	37616943.73	37616943.93	0.0090	0.0034
Mercury	98279-11-01 09:21 G	37617031.71	37617031.89	37617032.09	0.0090	0.0023
Mercury	98280-01-28 13:26 G	37617119.87	37617120.06	37617120.26	0.0090	0.0011
Mercury	98280-04-25 17:16 G	37617208.02	37617208.22	37617208.42	0.0090	0.0000
Mercury	98280-07-22 20:52 G	37617296.18	37617296.37	37617296.57	0.0090	0.0011
Mercury	98280-10-19 00:43 G	37617384.34	37617384.53	37617384.72	0.0090	0.0022
Mercury	98281-01-15 04:19 G	37617472.51	37617472.68	37617472.87	0.0090	0.0033
Mercury	98281-04-13 08:09 G	37617560.68	37617560.84	37617561.02	0.0090	0.0044
Mercury	98281-07-10 11:45 G	37617648.85	37617648.99	37617649.16	0.0090	0.0055
Mercury	98281-10-06 15:35 G	37617737.03	37617737.15	37617737.30	0.0090	0.0066
Mercury	98282-01-02 19:11 G	37617825.22	37617825.30	37617825.42	0.0090	0.0077
Mercury	98282-03-31 23:31 G	37617913.43	37617913.48	37617913.52	0.0090	0.0087
Venus	98306-09-10 18:57 G	37626841.20	37626841.29	37626841.39	0.0090	0.0080
Venus	98307-04-24 07:11 G	37627066.69	37627066.80	37627066.96	0.0090	0.0070
Venus	98307-12-05 19:55 G	37627292.18	37627292.33	37627292.51	0.0090	0.0059
Venus	98308-07-18 08:52 G	37627517.70	37627517.87	37627518.06	0.0089	0.0048
Earth	98308-09-18 16:48 G	37627580.14	37627580.20	37627580.30	0.0089	0.0085
Moon	98308-09-18 20:24 G	37627580.34	37627580.35	37627580.39	0.0089	0.0089
Venus	98309-02-28 21:21 G	37627743.21	37627743.39	37627743.60	0.0089	0.0037
Moon	98309-09-21 00:28 G	37627947.36	37627947.52	37627947.72	0.0089	0.0062
Earth	98309-09-21 04:19 G	37627947.51	37627947.68	37627947.85	0.0089	0.0066 *
Venus	98309-10-12 10:04 G	37627968.72	37627968.92	37627969.14	0.0089	0.0027
Venus	98310-05-25 22:48 G	37628194.24	37628194.45	37628194.67	0.0089	0.0016
Earth	98310-09-23 14:52 G	37628314.93	37628315.12	37628315.36	0.0089	0.0048
Moon	98310-09-23 17:45 G	37628315.04	37628315.24	37628315.47	0.0089	0.0052 *

Venus	98311-01-06 11:31 G	37628419.77	37628419.98	37628420.20	0.0089	0.0005
Venus	98311-08-20 00:14 G	37628645.30	37628645.51	37628645.73	0.0089	0.0007
Moon	98311-09-26 00:43 G	37628682.30	37628682.53	37628682.78	0.0089	0.0024
Earth	98311-09-26 02:09 G	37628682.37	37628682.59	37628682.85	0.0089	0.0029 *
Venus	98312-04-01 12:57 G	37628870.83	37628871.04	37628871.26	0.0089	0.0017
Earth	98312-09-27 13:26 G	37629049.82	37629050.06	37629050.32	0.0089	0.0010
Moon	98312-09-27 14:09 G	37629049.85	37629050.09	37629050.37	0.0089	0.0015 *
Venus	98312-11-13 01:40 G	37629096.37	37629096.57	37629096.78	0.0089	0.0028
Venus	98313-06-26 14:24 G	37629321.91	37629322.10	37629322.30	0.0089	0.0039
Earth	98313-09-30 00:28 G	37629417.27	37629417.52	37629417.78	0.0089	0.0010
Moon	98313-09-30 01:26 G	37629417.32	37629417.56	37629417.81	0.0089	0.0014 *
Venus	98314-02-07 02:52 G	37629547.46	37629547.62	37629547.82	0.0089	0.0050
Venus	98314-09-20 15:21 G	37629773.01	37629773.14	37629773.33	0.0089	0.0061
Moon	98314-10-02 09:21 G	37629784.65	37629784.89	37629785.16	0.0089	0.0025
Earth	98314-10-02 11:31 G	37629784.75	37629784.98	37629785.23	0.0089	0.0029 *
Venus	98315-05-04 04:19 G	37629998.56	37629998.68	37629998.82	0.0089	0.0071
Earth	98315-10-04 22:04 G	37630152.23	37630152.42	37630152.66	0.0089	0.0048
Moon	98315-10-05 00:43 G	37630152.35	37630152.53	37630152.75	0.0089	0.0053 *
Venus	98315-12-15 16:48 G	37630224.13	37630224.20	37630224.31	0.0089	0.0082
Moon	98316-10-06 05:16 G	37630519.56	37630519.72	37630519.93	0.0089	0.0062
Earth	98316-10-06 08:52 G	37630519.73	37630519.87	37630520.07	0.0089	0.0066 *
Earth	98317-10-08 19:40 G	37630887.26	37630887.32	37630887.43	0.0089	0.0085
Moon	98317-10-08 23:02 G	37630887.46	37630887.46	37630887.51	0.0089	0.0089
Mars	98347-08-12 01:40 G	37641786.44	37641786.57	37641786.70	0.0088	0.0081
Mars	98349-07-07 11:02 G	37642481.65	37642481.96	37642482.28	0.0088	0.0027
Mercury	98359-03-10 18:28 G	37646015.25	37646015.27	37646015.32	0.0088	0.0085
Mercury	98359-06-06 19:40 G	37646103.28	37646103.32	37646103.40	0.0088	0.0078
Mercury	98359-09-02 21:07 G	37646191.31	37646191.38	37646191.46	0.0088	0.0071
Mercury	98359-11-29 22:19 G	37646279.35	37646279.43	37646279.53	0.0088	0.0064
Mercury	98360-02-25 23:31 G	37646367.39	37646367.48	37646367.59	0.0088	0.0057

Mercury	98360-05-24 00:57 G	37646455.44	37646455.54	37646455.65	0.0088	0.0050
Mercury	98360-08-20 02:09 G	37646543.48	37646543.59	37646543.71	0.0088	0.0043
Mercury	98360-11-16 03:21 G	37646631.53	37646631.64	37646631.77	0.0088	0.0036
Mercury	98361-02-12 04:48 G	37646719.58	37646719.70	37646719.82	0.0088	0.0029
Mercury	98361-05-11 06:00 G	37646807.62	37646807.75	37646807.88	0.0088	0.0022
Mercury	98361-08-07 07:11 G	37646895.67	37646895.80	37646895.93	0.0088	0.0015
Mercury	98361-11-03 08:24 G	37646983.72	37646983.85	37646983.99	0.0088	0.0009
Mercury	98362-01-30 09:50 G	37647071.78	37647071.91	37647072.04	0.0088	0.0002
Mercury	98362-04-28 11:02 G	37647159.83	37647159.96	37647160.09	0.0088	0.0006
Mercury	98362-07-25 12:14 G	37647247.88	37647248.01	37647248.14	0.0088	0.0013
Mercury	98362-10-21 13:26 G	37647335.94	37647336.06	37647336.19	0.0088	0.0020
Mercury	98363-01-17 14:38 G	37647423.99	37647424.11	37647424.24	0.0088	0.0027
Mercury	98363-04-15 15:50 G	37647512.05	37647512.16	37647512.29	0.0088	0.0034
Mercury	98363-07-12 17:16 G	37647600.11	37647600.22	37647600.34	0.0088	0.0040
Mercury	98363-10-08 18:28 G	37647688.16	37647688.27	37647688.39	0.0088	0.0047
Mercury	98364-01-04 19:40 G	37647776.22	37647776.32	37647776.43	0.0088	0.0055
Mercury	98364-04-01 20:52 G	37647864.29	37647864.37	37647864.47	0.0088	0.0062
Mercury	98364-06-28 22:04 G	37647952.35	37647952.42	37647952.51	0.0088	0.0069
Mercury	98364-09-24 23:16 G	37648040.42	37648040.47	37648040.55	0.0088	0.0076
Mercury	98364-12-22 00:57 G	37648128.49	37648128.54	37648128.58	0.0088	0.0082
Venus	98389-06-10 00:43 G	37657064.47	37657064.53	37657064.60	0.0088	0.0083
Venus	98390-01-21 13:55 G	37657289.98	37657290.08	37657290.22	0.0088	0.0073
Venus	98390-09-04 03:50 G	37657515.50	37657515.66	37657515.82	0.0088	0.0062
Venus	98391-04-17 16:48 G	37657741.04	37657741.20	37657741.40	0.0088	0.0052
Venus	98391-11-29 06:28 G	37657966.58	37657966.77	37657966.97	0.0088	0.0041
Earth	98392-03-21 17:45 G	37658080.13	37658080.24	37658080.41	0.0088	0.0074
Moon	98392-03-21 19:55 G	37658080.19	37658080.33	37658080.48	0.0088	0.0073 *
Venus	98392-07-11 19:40 G	37658192.12	37658192.32	37658192.54	0.0088	0.0031
Venus	98393-02-22 09:21 G	37658417.67	37658417.89	37658418.11	0.0088	0.0020
Moon	98393-03-24 05:16 G	37658447.55	37658447.72	37658447.93	0.0088	0.0057



Earth	98393-03-24 06:43 G	37658447.58	37658447.78	37658447.98	0.0088	0.0055	*
Venus	98393-10-05 22:33 G	37658643.22	37658643.44	37658643.67	0.0088	0.0010	
Moon	98394-03-26 18:14 G	37658815.02	37658815.26	37658815.51	0.0088	0.0036	
Earth	98394-03-26 18:43 G	37658815.05	37658815.28	37658815.53	0.0088	0.0037	*
Venus	98394-05-19 12:00 G	37658868.78	37658869.00	37658869.23	0.0088	0.0001	
Venus	98394-12-31 01:26 G	37659094.34	37659094.56	37659094.78	0.0088	0.0012	
Earth	98395-03-29 06:57 G	37659182.54	37659182.79	37659183.05	0.0088	0.0019	
Moon	98395-03-29 08:52 G	37659182.63	37659182.87	37659183.13	0.0088	0.0019	*
Venus	98395-08-13 14:38 G	37659319.90	37659320.11	37659320.33	0.0088	0.0022	
Venus	98396-03-26 03:50 G	37659545.46	37659545.66	37659545.88	0.0088	0.0033	
Moon	98396-03-30 17:02 G	37659549.94	37659550.21	37659550.48	0.0088	0.0001	
Earth	98396-03-30 19:26 G	37659550.05	37659550.31	37659550.58	0.0088	0.0001	*
Venus	98396-11-06 16:48 G	37659771.03	37659771.20	37659771.41	0.0088	0.0044	
Earth	98397-04-02 07:40 G	37659917.57	37659917.82	37659918.08	0.0088	0.0018	
Moon	98397-04-02 11:16 G	37659917.72	37659917.97	37659918.23	0.0088	0.0017	*
Venus	98397-06-20 06:14 G	37659996.60	37659996.76	37659996.95	0.0088	0.0054	
Venus	98398-01-31 19:26 G	37660222.19	37660222.31	37660222.49	0.0088	0.0066	
Moon	98398-04-04 16:19 G	37660284.95	37660285.18	37660285.43	0.0088	0.0038	
Earth	98398-04-04 19:40 G	37660285.10	37660285.32	37660285.58	0.0088	0.0037	*
Venus	98398-09-14 09:07 G	37660447.78	37660447.88	37660448.01	0.0088	0.0075	
Earth	98399-04-07 08:09 G	37660652.65	37660652.84	37660653.06	0.0088	0.0055	
Moon	98399-04-07 11:31 G	37660652.80	37660652.98	37660653.22	0.0088	0.0053	*
Venus	98399-04-27 22:04 G	37660673.40	37660673.42	37660673.49	0.0088	0.0086	
Moon	98400-04-08 17:45 G	37661020.13	37661020.24	37661020.39	0.0088	0.0075	
Earth	98400-04-08 20:52 G	37661020.24	37661020.37	37661020.52	0.0088	0.0074	*
Mars	98431-06-09 00:28 G	37672403.27	37672403.52	37672403.82	0.0089	0.0038	
Mars	98433-05-03 05:02 G	37673097.53	37673097.71	37673097.94	0.0089	0.0064	
Mercury	98443-02-16 08:52 G	37676673.82	37676673.87	37676673.96	0.0090	0.0084	
Mercury	98443-05-15 12:43 G	37676761.93	37676762.03	37676762.16	0.0090	0.0073	
Mercury	98443-08-11 16:33 G	37676850.06	37676850.19	37676850.35	0.0090	0.0062	

Mercury	98443-11-07 20:24 G	37676938.20	37676938.35	37676938.53	0.0090	0.0051
Mercury	98444-02-04 00:14 G	37677026.35	37677026.51	37677026.70	0.0090	0.0040
Mercury	98444-05-02 04:04 G	37677114.49	37677114.67	37677114.87	0.0090	0.0029
Mercury	98444-07-29 07:55 G	37677202.65	37677202.83	37677203.03	0.0090	0.0018
Mercury	98444-10-25 12:00 G	37677290.80	37677291.00	37677291.19	0.0090	0.0006
Mercury	98445-01-21 15:50 G	37677378.96	37677379.16	37677379.35	0.0090	0.0005
Mercury	98445-04-19 19:26 G	37677467.12	37677467.31	37677467.51	0.0090	0.0016
Mercury	98445-07-16 23:02 G	37677555.28	37677555.46	37677555.66	0.0090	0.0027
Mercury	98445-10-13 02:52 G	37677643.45	37677643.62	37677643.81	0.0090	0.0038
Mercury	98446-01-09 06:28 G	37677731.62	37677731.77	37677731.95	0.0090	0.0049
Mercury	98446-04-07 10:19 G	37677819.80	37677819.93	37677820.09	0.0090	0.0060
Mercury	98446-07-04 13:55 G	37677907.98	37677908.08	37677908.22	0.0090	0.0071
Mercury	98446-09-30 18:14 G	37677996.18	37677996.26	37677996.34	0.0090	0.0081
Venus	98470-12-13 06:00 G	37686835.68	37686835.75	37686835.84	0.0090	0.0083
Venus	98471-07-26 18:28 G	37687061.17	37687061.27	37687061.42	0.0090	0.0073
Venus	98472-03-08 07:11 G	37687286.66	37687286.80	37687286.97	0.0090	0.0062
Venus	98472-10-19 19:55 G	37687512.16	37687512.33	37687512.52	0.0090	0.0051
Venus	98473-06-02 08:24 G	37687737.67	37687737.85	37687738.06	0.0089	0.0040
Earth	98473-09-20 13:26 G	37687847.93	37687848.06	37687848.24	0.0089	0.0072
Moon	98473-09-20 16:04 G	37687848.03	37687848.17	37687848.35	0.0089	0.0070 *
Venus	98474-01-13 21:07 G	37687963.19	37687963.38	37687963.60	0.0089	0.0030
Venus	98474-08-27 09:50 G	37688188.71	37688188.91	37688189.13	0.0089	0.0019
Moon	98474-09-22 23:45 G	37688215.31	37688215.49	37688215.69	0.0089	0.0055
Earth	98474-09-23 00:43 G	37688215.34	37688215.53	37688215.75	0.0089	0.0053 *
Venus	98475-04-09 22:33 G	37688414.23	37688414.44	37688414.66	0.0089	0.0008
Moon	98475-09-25 11:31 G	37688582.75	37688582.98	37688583.24	0.0089	0.0032
Earth	98475-09-25 12:00 G	37688582.77	37688583.00	37688583.24	0.0089	0.0034 *
Venus	98475-11-21 11:16 G	37688639.75	37688639.97	37688640.18	0.0089	0.0003
Venus	98476-07-03 23:45 G	37688865.29	37688865.49	37688865.72	0.0089	0.0015
Earth	98476-09-26 23:02 G	37688950.21	37688950.46	37688950.71	0.0089	0.0015

Moon	98476-09-27 00:00 G	37688950.26	37688950.50	37688950.75	0.0089	0.0016	*
Venus	98477-02-14 12:43 G	37689090.82	37689091.03	37689091.24	0.0089	0.0025	
Venus	98477-09-28 01:11 G	37689316.36	37689316.55	37689316.76	0.0089	0.0036	
Moon	98477-09-29 07:40 G	37689317.56	37689317.82	37689318.08	0.0089	0.0006	
Earth	98477-09-29 10:04 G	37689317.67	37689317.92	37689318.18	0.0089	0.0005	*
Venus	98478-05-11 13:40 G	37689541.90	37689542.07	37689542.27	0.0089	0.0047	
Earth	98478-10-01 21:07 G	37689685.14	37689685.38	37689685.63	0.0089	0.0023	
Moon	98478-10-02 00:28 G	37689685.28	37689685.52	37689685.76	0.0089	0.0021	*
Venus	98478-12-23 02:24 G	37689767.45	37689767.60	37689767.78	0.0089	0.0057	
Venus	98479-08-05 15:35 G	37689993.01	37689993.15	37689993.29	0.0089	0.0068	
Moon	98479-10-04 04:33 G	37690052.48	37690052.69	37690052.93	0.0089	0.0044	
Earth	98479-10-04 07:55 G	37690052.63	37690052.83	37690053.07	0.0089	0.0042	*
Venus	98480-03-18 03:50 G	37690218.58	37690218.66	37690218.78	0.0089	0.0079	
Earth	98480-10-05 19:11 G	37690420.12	37690420.30	37690420.49	0.0089	0.0061	
Moon	98480-10-05 22:19 G	37690420.26	37690420.43	37690420.65	0.0089	0.0059	*
Venus	98480-10-29 16:33 G	37690444.19	37690444.19	37690444.23	0.0089	0.0089	
Moon	98481-10-08 03:07 G	37690787.55	37690787.63	37690787.75	0.0089	0.0081	
Earth	98481-10-08 05:45 G	37690787.65	37690787.74	37690787.88	0.0089	0.0080	*
Mars	98513-02-19 13:11 G	37702243.74	37702244.05	37702244.39	0.0088	0.0010	
Mercury	98523-12-06 18:28 G	37706186.23	37706186.27	37706186.32	0.0088	0.0081	
Mercury	98524-03-03 19:55 G	37706274.26	37706274.33	37706274.40	0.0088	0.0074	
Mercury	98524-05-30 20:52 G	37706362.30	37706362.37	37706362.46	0.0088	0.0068	
Mercury	98524-08-26 22:04 G	37706450.34	37706450.42	37706450.53	0.0088	0.0061	
Mercury	98524-11-22 23:16 G	37706538.38	37706538.47	37706538.59	0.0088	0.0054	
Mercury	98525-02-19 00:43 G	37706626.42	37706626.53	37706626.65	0.0088	0.0047	
Mercury	98525-05-18 01:55 G	37706714.47	37706714.58	37706714.70	0.0088	0.0040	
Mercury	98525-08-14 03:21 G	37706802.52	37706802.64	37706802.76	0.0088	0.0033	
Mercury	98525-11-10 04:33 G	37706890.57	37706890.69	37706890.82	0.0088	0.0026	
Mercury	98526-02-06 05:45 G	37706978.61	37706978.74	37706978.87	0.0088	0.0019	
Mercury	98526-05-05 06:57 G	37707066.67	37707066.79	37707066.93	0.0088	0.0013	

Mercury	98526-08-01 08:24 G	37707154.72	37707154.85	37707154.98	0.0088	0.0005
Mercury	98526-10-28 09:35 G	37707242.77	37707242.90	37707243.03	0.0088	0.0002
Mercury	98527-01-24 10:48 G	37707330.82	37707330.95	37707331.08	0.0088	0.0009
Mercury	98527-04-22 12:00 G	37707418.87	37707419.00	37707419.13	0.0088	0.0016
Mercury	98527-07-19 13:11 G	37707506.93	37707507.05	37707507.18	0.0088	0.0023
Mercury	98527-10-15 14:24 G	37707594.98	37707595.10	37707595.23	0.0088	0.0030
Mercury	98528-01-11 15:35 G	37707683.04	37707683.15	37707683.28	0.0088	0.0037
Mercury	98528-04-08 16:48 G	37707771.10	37707771.20	37707771.33	0.0088	0.0044
Mercury	98528-07-05 18:14 G	37707859.16	37707859.26	37707859.37	0.0088	0.0051
Mercury	98528-10-01 19:26 G	37707947.22	37707947.31	37707947.42	0.0088	0.0058
Mercury	98528-12-28 20:38 G	37708035.28	37708035.36	37708035.46	0.0088	0.0065
Mercury	98529-03-26 21:50 G	37708123.35	37708123.41	37708123.50	0.0088	0.0072
Mercury	98529-06-22 23:02 G	37708211.42	37708211.46	37708211.53	0.0088	0.0079
Mercury	98529-09-19 00:43 G	37708299.50	37708299.53	37708299.56	0.0088	0.0085
Venus	98553-09-12 10:33 G	37717058.91	37717058.94	37717059.00	0.0088	0.0086
Venus	98554-04-25 23:45 G	37717284.40	37717284.49	37717284.63	0.0088	0.0076
Venus	98554-12-07 13:26 G	37717509.93	37717510.06	37717510.23	0.0088	0.0065
Venus	98555-07-21 02:52 G	37717735.46	37717735.62	37717735.81	0.0088	0.0055
Venus	98556-03-02 16:33 G	37717961.01	37717961.19	37717961.39	0.0088	0.0044
Earth	98556-03-22 02:24 G	37717980.51	37717980.60	37717980.74	0.0088	0.0079
Moon	98556-03-22 02:52 G	37717980.52	37717980.62	37717980.78	0.0088	0.0075 *
Venus	98556-10-14 06:00 G	37718186.55	37718186.75	37718186.97	0.0088	0.0033
Moon	98557-03-24 13:26 G	37718347.91	37718348.06	37718348.27	0.0088	0.0065
Earth	98557-03-24 15:21 G	37718347.96	37718348.14	37718348.33	0.0088	0.0060 *
Venus	98557-05-27 19:26 G	37718412.10	37718412.31	37718412.53	0.0088	0.0023
Venus	98558-01-08 09:07 G	37718637.66	37718637.88	37718638.10	0.0088	0.0012
Earth	98558-03-27 03:21 G	37718715.42	37718715.64	37718715.88	0.0088	0.0042
Moon	98558-03-27 06:00 G	37718715.52	37718715.75	37718715.99	0.0088	0.0037 *
Venus	98558-08-21 22:33 G	37718863.22	37718863.44	37718863.66	0.0088	0.0001
Moon	98559-03-29 12:28 G	37719082.78	37719083.02	37719083.28	0.0088	0.0028

Earth	98559-03-29 15:50 G	37719082.92	37719083.16	37719083.43	0.0088	0.0024	*
Venus	98559-04-04 11:45 G	37719088.77	37719088.99	37719089.22	0.0088	0.0009	
Venus	98559-11-16 00:57 G	37719314.33	37719314.54	37719314.77	0.0088	0.0020	
Earth	98560-03-31 04:33 G	37719450.43	37719450.69	37719450.95	0.0088	0.0005	
Moon	98560-03-31 07:55 G	37719450.57	37719450.83	37719451.09	0.0088	0.0000	*
Venus	98560-06-28 14:38 G	37719539.90	37719540.11	37719540.32	0.0088	0.0030	
Venus	98561-02-09 03:50 G	37719765.47	37719765.66	37719765.86	0.0088	0.0041	
Moon	98561-04-02 12:57 G	37719817.79	37719818.04	37719818.30	0.0088	0.0009	
Earth	98561-04-02 16:33 G	37719817.94	37719818.19	37719818.46	0.0088	0.0014	*
Venus	98561-09-22 16:48 G	37719991.04	37719991.20	37719991.40	0.0088	0.0052	
Earth	98562-04-05 04:48 G	37720185.47	37720185.70	37720185.96	0.0088	0.0032	
Moon	98562-04-05 07:26 G	37720185.59	37720185.81	37720186.08	0.0088	0.0037	*
Venus	98562-05-06 06:14 G	37720216.62	37720216.76	37720216.93	0.0088	0.0062	
Venus	98562-12-17 19:26 G	37720442.21	37720442.31	37720442.45	0.0088	0.0073	
Moon	98563-04-07 14:52 G	37720552.92	37720553.12	37720553.35	0.0088	0.0046	
Earth	98563-04-07 17:31 G	37720553.02	37720553.23	37720553.44	0.0088	0.0050	*
Venus	98563-07-31 08:52 G	37720667.81	37720667.87	37720667.96	0.0088	0.0083	
Earth	98564-04-09 05:16 G	37720920.59	37720920.72	37720920.91	0.0088	0.0069	
Moon	98564-04-09 06:57 G	37720920.66	37720920.79	37720920.95	0.0088	0.0074	*
Moon	98565-04-11 18:14 G	37721288.20	37721288.26	37721288.36	0.0088	0.0083	
Earth	98565-04-11 18:00 G	37721288.23	37721288.25	37721288.30	0.0088	0.0087	*
Mars	98595-01-23 02:52 G	37732166.49	37732166.62	37732166.83	0.0089	0.0074	
Mars	98596-12-17 10:19 G	37732860.66	37732860.93	37732861.23	0.0089	0.0030	
Mercury	98607-08-19 03:35 G	37736756.65	37736756.65	37736756.68	0.0090	0.0090	
Mercury	98607-11-15 07:26 G	37736844.73	37736844.81	37736844.92	0.0090	0.0079	
Mercury	98608-02-11 11:16 G	37736932.86	37736932.97	37736933.11	0.0090	0.0068	
Mercury	98608-05-09 15:07 G	37737020.99	37737021.13	37737021.30	0.0090	0.0057	
Mercury	98608-08-05 18:57 G	37737109.13	37737109.29	37737109.47	0.0090	0.0046	
Mercury	98608-11-01 22:48 G	37737197.28	37737197.45	37737197.65	0.0090	0.0035	
Mercury	98609-01-29 02:38 G	37737285.43	37737285.61	37737285.81	0.0090	0.0024	

Mercury	98609-04-27 06:28 G	37737373.59	37737373.77	37737373.98	0.0090	0.0013
Mercury	98609-07-24 10:33 G	37737461.74	37737461.94	37737462.14	0.0090	0.0001
Mercury	98609-10-20 14:24 G	37737549.90	37737550.10	37737550.29	0.0090	0.0010
Mercury	98610-01-16 18:00 G	37737638.06	37737638.25	37737638.45	0.0090	0.0021
Mercury	98610-04-14 21:50 G	37737726.23	37737726.41	37737726.60	0.0090	0.0032
Mercury	98610-07-12 01:26 G	37737814.40	37737814.56	37737814.74	0.0090	0.0043
Mercury	98610-10-08 05:16 G	37737902.57	37737902.72	37737902.89	0.0090	0.0054
Mercury	98611-01-04 08:52 G	37737990.75	37737990.87	37737991.02	0.0090	0.0065
Mercury	98611-04-02 12:43 G	37738078.94	37738079.03	37738079.15	0.0090	0.0076
Mercury	98611-06-29 16:19 G	37738167.15	37738167.18	37738167.25	0.0090	0.0087
Venus	98635-03-18 17:31 G	37746830.19	37746830.23	37746830.32	0.0090	0.0086
Venus	98635-10-30 06:14 G	37747055.66	37747055.76	37747055.89	0.0090	0.0075
Venus	98636-06-11 19:11 G	37747281.16	37747281.30	37747281.45	0.0090	0.0064
Venus	98637-01-23 07:26 G	37747506.66	37747506.81	37747507.00	0.0090	0.0054
Venus	98637-09-05 20:09 G	37747732.16	37747732.34	37747732.54	0.0090	0.0043
Moon	98637-09-21 23:45 G	37747748.40	37747748.49	37747748.62	0.0090	0.0080
Earth	98637-09-22 00:43 G	37747748.40	37747748.53	37747748.67	0.0090	0.0076 *
Venus	98638-04-19 08:52 G	37747957.67	37747957.87	37747958.08	0.0089	0.0032
Moon	98638-09-24 10:33 G	37748115.75	37748115.94	37748116.17	0.0089	0.0054
Earth	98638-09-24 11:16 G	37748115.80	37748115.97	37748116.19	0.0089	0.0058 *
Venus	98638-11-30 21:21 G	37748183.19	37748183.39	37748183.61	0.0089	0.0021
Venus	98639-07-14 10:19 G	37748408.72	37748408.93	37748409.15	0.0089	0.0010
Earth	98639-09-26 22:19 G	37748483.21	37748483.43	37748483.67	0.0089	0.0039
Moon	98639-09-27 00:14 G	37748483.32	37748483.51	37748483.75	0.0089	0.0043 *
Venus	98640-02-24 23:02 G	37748634.24	37748634.46	37748634.67	0.0089	0.0002
Moon	98640-09-28 06:43 G	37748850.53	37748850.78	37748851.04	0.0089	0.0016
Earth	98640-09-28 09:35 G	37748850.65	37748850.90	37748851.15	0.0089	0.0020 *
Venus	98640-10-07 11:31 G	37748859.77	37748859.98	37748860.19	0.0089	0.0011
Venus	98641-05-20 23:45 G	37749085.29	37749085.49	37749085.71	0.0089	0.0023
Earth	98641-09-30 20:38 G	37749218.10	37749218.36	37749218.61	0.0089	0.0001

Moon	98641-10-01 00:00 G	37749218.25	37749218.50	37749218.75	0.0089	0.0005 *
Venus	98642-01-01 12:43 G	37749310.83	37749311.03	37749311.23	0.0089	0.0033
Venus	98642-08-15 01:11 G	37749536.37	37749536.55	37749536.75	0.0089	0.0044
Moon	98642-10-03 04:04 G	37749585.43	37749585.67	37749585.92	0.0089	0.0022
Earth	98642-10-03 07:11 G	37749585.57	37749585.80	37749586.06	0.0089	0.0019 *
Venus	98643-03-28 13:40 G	37749761.92	37749762.07	37749762.26	0.0089	0.0055
Earth	98643-10-05 18:00 G	37749953.04	37749953.25	37749953.50	0.0089	0.0038
Moon	98643-10-05 21:35 G	37749953.16	37749953.40	37749953.64	0.0089	0.0033 *
Venus	98643-11-09 02:09 G	37749987.47	37749987.59	37749987.76	0.0089	0.0066
Venus	98644-06-21 15:21 G	37750213.04	37750213.14	37750213.26	0.0089	0.0076
Moon	98644-10-07 02:24 G	37750320.44	37750320.60	37750320.81	0.0089	0.0061
Earth	98644-10-07 05:16 G	37750320.53	37750320.72	37750320.93	0.0089	0.0056 *
Venus	98645-02-02 03:50 G	37750438.63	37750438.66	37750438.73	0.0089	0.0087
Earth	98645-10-09 16:04 G	37750688.05	37750688.17	37750688.33	0.0089	0.0075
Moon	98645-10-09 17:16 G	37750688.08	37750688.22	37750688.40	0.0089	0.0071 *
Jupiter	98657-08-15 18:57 G	37755016.15	37755016.29	37755016.48	0.0089	0.0084
Mars	98676-10-04 19:40 G	37762006.06	37762006.32	37762006.62	0.0088	0.0045
Mars	98678-08-31 02:38 G	37762701.39	37762701.61	37762701.86	0.0088	0.0062
Mercury	98688-06-06 17:02 G	37766269.19	37766269.21	37766269.25	0.0088	0.0085
Mercury	98688-09-02 18:14 G	37766357.21	37766357.26	37766357.33	0.0088	0.0078
Mercury	98688-11-29 19:40 G	37766445.25	37766445.32	37766445.40	0.0088	0.0071
Mercury	98689-02-25 20:52 G	37766533.28	37766533.37	37766533.46	0.0088	0.0064
Mercury	98689-05-24 21:50 G	37766621.33	37766621.41	37766621.52	0.0088	0.0058
Mercury	98689-08-20 23:16 G	37766709.37	37766709.47	37766709.58	0.0088	0.0051
Mercury	98689-11-17 00:28 G	37766797.41	37766797.52	37766797.64	0.0088	0.0044
Mercury	98690-02-13 01:40 G	37766885.46	37766885.57	37766885.70	0.0088	0.0037
Mercury	98690-05-12 03:07 G	37766973.51	37766973.63	37766973.76	0.0088	0.0030
Mercury	98690-08-08 04:19 G	37767061.56	37767061.68	37767061.81	0.0088	0.0023
Mercury	98690-11-04 05:45 G	37767149.61	37767149.74	37767149.87	0.0088	0.0016
Mercury	98691-01-31 06:57 G	37767237.66	37767237.79	37767237.92	0.0088	0.0009

Mercury	98691-04-29 08:09 G	37767325.71	37767325.84	37767325.97	0.0088	0.0002
Mercury	98691-07-26 09:21 G	37767413.76	37767413.89	37767414.02	0.0088	0.0005
Mercury	98691-10-22 10:33 G	37767501.81	37767501.94	37767502.08	0.0088	0.0012
Mercury	98692-01-18 11:45 G	37767589.87	37767589.99	37767590.13	0.0088	0.0019
Mercury	98692-04-15 12:57 G	37767677.92	37767678.04	37767678.17	0.0088	0.0026
Mercury	98692-07-12 14:24 G	37767765.98	37767766.10	37767766.22	0.0088	0.0033
Mercury	98692-10-08 15:35 G	37767854.04	37767854.15	37767854.27	0.0088	0.0040
Mercury	98693-01-04 16:48 G	37767942.09	37767942.20	37767942.32	0.0088	0.0047
Mercury	98693-04-02 18:00 G	37768030.15	37768030.25	37768030.36	0.0088	0.0054
Mercury	98693-06-29 19:11 G	37768118.21	37768118.30	37768118.40	0.0088	0.0061
Mercury	98693-09-25 20:24 G	37768206.28	37768206.35	37768206.44	0.0088	0.0068
Mercury	98693-12-22 21:35 G	37768294.35	37768294.40	37768294.48	0.0088	0.0075
Mercury	98694-03-20 22:48 G	37768382.42	37768382.45	37768382.51	0.0088	0.0082
Venus	98718-07-30 10:19 G	37777278.85	37777278.93	37777279.05	0.0088	0.0078
Venus	98719-03-12 23:31 G	37777504.36	37777504.48	37777504.65	0.0088	0.0068
Venus	98719-10-24 13:11 G	37777729.89	37777730.05	37777730.23	0.0088	0.0057
Moon	98720-03-23 08:52 G	37777880.79	37777880.87	37777880.98	0.0088	0.0081
Earth	98720-03-23 11:02 G	37777880.92	37777880.96	37777881.07	0.0088	0.0084 *
Venus	98720-06-06 02:24 G	37777955.43	37777955.60	37777955.81	0.0088	0.0047
Venus	98721-01-17 16:19 G	37778180.98	37778181.18	37778181.39	0.0088	0.0036
Earth	98721-03-25 23:45 G	37778248.33	37778248.49	37778248.67	0.0088	0.0065
Moon	98721-03-26 02:38 G	37778248.46	37778248.61	37778248.79	0.0088	0.0067 *
Venus	98721-08-31 06:00 G	37778406.53	37778406.75	37778406.96	0.0088	0.0025
Moon	98722-03-28 08:24 G	37778615.65	37778615.85	37778616.10	0.0088	0.0046
Earth	98722-03-28 12:14 G	37778615.80	37778616.01	37778616.24	0.0088	0.0047 *
Venus	98722-04-13 19:11 G	37778632.08	37778632.30	37778632.53	0.0088	0.0015
Venus	98722-11-25 08:38 G	37778857.64	37778857.86	37778858.09	0.0088	0.0004
Earth	98723-03-31 00:57 G	37778983.29	37778983.54	37778983.79	0.0088	0.0028
Moon	98723-03-31 04:19 G	37778983.45	37778983.68	37778983.94	0.0088	0.0030 *
Venus	98723-07-08 22:04 G	37779083.20	37779083.42	37779083.65	0.0088	0.0007



Venus	98724-02-19 11:31 G	37779308.77	37779308.98	37779309.21	0.0088	0.0017
Moon	98724-04-01 10:04 G	37779350.67	37779350.92	37779351.18	0.0088	0.0009
Earth	98724-04-01 13:11 G	37779350.80	37779351.05	37779351.32	0.0088	0.0010 *
Venus	98724-10-02 00:43 G	37779534.33	37779534.53	37779534.76	0.0088	0.0028
Earth	98725-04-04 01:26 G	37779718.31	37779718.56	37779718.83	0.0088	0.0009
Moon	98725-04-04 04:19 G	37779718.42	37779718.68	37779718.96	0.0088	0.0009 *
Venus	98725-05-15 14:24 G	37779759.90	37779760.10	37779760.30	0.0088	0.0038
Venus	98725-12-27 03:35 G	37779985.47	37779985.65	37779985.84	0.0088	0.0049
Moon	98726-04-06 12:28 G	37780085.80	37780086.02	37780086.27	0.0088	0.0029
Earth	98726-04-06 13:55 G	37780085.84	37780086.08	37780086.33	0.0088	0.0027 *
Venus	98726-08-09 16:33 G	37780211.05	37780211.19	37780211.38	0.0088	0.0060
Venus	98727-03-23 06:00 G	37780436.64	37780436.75	37780436.90	0.0088	0.0071
Earth	98727-04-09 01:55 G	37780453.38	37780453.58	37780453.82	0.0088	0.0047
Moon	98727-04-09 02:38 G	37780453.38	37780453.61	37780453.85	0.0088	0.0045 *
Venus	98727-11-03 19:11 G	37780662.24	37780662.30	37780662.41	0.0088	0.0081
Earth	98728-04-10 14:38 G	37780820.94	37780821.11	37780821.30	0.0088	0.0064
Moon	98728-04-10 15:21 G	37780820.98	37780821.14	37780821.32	0.0088	0.0065 *
Moon	98729-04-13 00:43 G	37781188.43	37781188.53	37781188.63	0.0088	0.0082
Earth	98729-04-13 02:24 G	37781188.55	37781188.60	37781188.72	0.0088	0.0083 *
Mars	98760-08-03 12:43 G	37792623.74	37792624.03	37792624.34	0.0089	0.0005
Mercury	98772-05-16 02:24 G	37796927.55	37796927.60	37796927.68	0.0090	0.0084
Mercury	98772-08-12 06:14 G	37797015.66	37797015.76	37797015.88	0.0090	0.0073
Mercury	98772-11-08 10:04 G	37797103.79	37797103.92	37797104.07	0.0090	0.0062
Mercury	98773-02-04 13:55 G	37797191.93	37797192.08	37797192.25	0.0090	0.0051
Mercury	98773-05-03 17:45 G	37797280.07	37797280.24	37797280.43	0.0090	0.0040
Mercury	98773-07-30 21:35 G	37797368.22	37797368.40	37797368.59	0.0090	0.0029
Mercury	98773-10-27 01:40 G	37797456.37	37797456.57	37797456.76	0.0090	0.0018
Mercury	98774-01-23 05:31 G	37797544.53	37797544.73	37797544.92	0.0090	0.0007
Mercury	98774-04-21 09:07 G	37797632.69	37797632.88	37797633.08	0.0090	0.0005
Mercury	98774-07-18 12:57 G	37797720.85	37797721.04	37797721.24	0.0090	0.0015

Mercury	98774-10-14 16:33 G	37797809.02	37797809.19	37797809.39	0.0090	0.0027
Mercury	98775-01-10 20:24 G	37797897.18	37797897.35	37797897.54	0.0090	0.0038
Mercury	98775-04-09 00:00 G	37797985.36	37797985.50	37797985.69	0.0090	0.0049
Mercury	98775-07-06 03:50 G	37798073.53	37798073.66	37798073.83	0.0090	0.0060
Mercury	98775-10-02 08:09 G	37798161.72	37798161.84	37798161.96	0.0090	0.0070
Mercury	98775-12-29 11:45 G	37798249.91	37798249.99	37798250.08	0.0090	0.0081
Venus	98799-06-21 05:16 G	37806824.70	37806824.72	37806824.77	0.0090	0.0088
Venus	98800-02-01 17:45 G	37807050.16	37807050.24	37807050.37	0.0090	0.0078
Venus	98800-09-14 06:28 G	37807275.65	37807275.77	37807275.93	0.0090	0.0067
Venus	98801-04-27 19:26 G	37807501.14	37807501.31	37807501.48	0.0090	0.0056
Moon	98801-09-22 09:21 G	37807648.83	37807648.89	37807648.99	0.0089	0.0085
Earth	98801-09-22 10:48 G	37807648.87	37807648.95	37807649.08	0.0089	0.0082 *
Venus	98801-12-09 07:40 G	37807726.65	37807726.82	37807727.02	0.0089	0.0046
Venus	98802-07-22 20:38 G	37807952.17	37807952.36	37807952.57	0.0089	0.0035
Earth	98802-09-24 21:50 G	37808016.25	37808016.41	37808016.61	0.0089	0.0063
Moon	98802-09-25 00:43 G	37808016.34	37808016.53	37808016.71	0.0089	0.0059 *
Venus	98803-03-05 09:21 G	37808177.68	37808177.89	37808178.10	0.0089	0.0024
Moon	98803-09-27 05:45 G	37808383.53	37808383.74	37808383.96	0.0089	0.0048
Earth	98803-09-27 09:07 G	37808383.67	37808383.88	37808384.12	0.0089	0.0044 *
Venus	98803-10-16 21:50 G	37808403.20	37808403.41	37808403.63	0.0089	0.0013
Venus	98804-05-29 10:33 G	37808628.73	37808628.94	37808629.16	0.0089	0.0002
Earth	98804-09-28 20:09 G	37808751.11	37808751.34	37808751.59	0.0089	0.0025
Moon	98804-09-28 23:31 G	37808751.25	37808751.48	37808751.74	0.0089	0.0022 *
Venus	98805-01-09 23:16 G	37808854.25	37808854.47	37808854.68	0.0089	0.0009
Venus	98805-08-23 11:45 G	37809079.78	37809079.99	37809080.21	0.0089	0.0020
Moon	98805-10-01 03:50 G	37809118.41	37809118.66	37809118.91	0.0089	0.0009
Earth	98805-10-01 07:26 G	37809118.56	37809118.81	37809119.06	0.0089	0.0006 *
Venus	98806-04-06 00:14 G	37809305.32	37809305.51	37809305.72	0.0089	0.0030
Earth	98806-10-03 18:00 G	37809486.01	37809486.25	37809486.52	0.0089	0.0014
Moon	98806-10-03 21:07 G	37809486.12	37809486.38	37809486.63	0.0089	0.0017 *

Venus	98806-11-17 12:43 G	37809530.85	37809531.03	37809531.24	0.0089	0.0041
Venus	98807-07-01 01:40 G	37809756.40	37809756.57	37809756.75	0.0089	0.0052
Moon	98807-10-06 03:07 G	37809853.41	37809853.63	37809853.88	0.0089	0.0030
Earth	98807-10-06 04:48 G	37809853.48	37809853.70	37809853.96	0.0089	0.0033 *
Venus	98808-02-11 14:09 G	37809981.95	37809982.09	37809982.26	0.0089	0.0063
Venus	98808-09-24 02:38 G	37810207.51	37810207.61	37810207.75	0.0089	0.0073
Earth	98808-10-07 16:04 G	37810220.97	37810221.17	37810221.38	0.0089	0.0051
Moon	98808-10-07 17:02 G	37810221.01	37810221.21	37810221.43	0.0089	0.0054 *
Venus	98809-05-07 15:35 G	37810433.08	37810433.15	37810433.23	0.0089	0.0084
Earth	98809-10-10 02:52 G	37810588.48	37810588.62	37810588.79	0.0089	0.0070
Moon	98809-10-10 03:35 G	37810588.51	37810588.65	37810588.84	0.0089	0.0067 *
Earth	98810-10-12 13:40 G	37810956.06	37810956.07	37810956.13	0.0089	0.0088
Jupiter	98823-10-23 03:50 G	37815714.21	37815714.66	37815715.14	0.0089	0.0042
Mars	98840-05-20 03:07 G	37821768.51	37821768.63	37821768.79	0.0088	0.0080
Mars	98842-04-15 08:52 G	37822463.57	37822463.87	37822464.20	0.0088	0.0027
Mercury	98853-03-04 17:02 G	37826440.17	37826440.21	37826440.26	0.0088	0.0081
Mercury	98853-05-31 18:28 G	37826528.20	37826528.27	37826528.33	0.0088	0.0074
Mercury	98853-08-27 19:26 G	37826616.24	37826616.31	37826616.40	0.0088	0.0068
Mercury	98853-11-23 20:38 G	37826704.28	37826704.36	37826704.47	0.0088	0.0061
Mercury	98854-02-19 21:50 G	37826792.32	37826792.41	37826792.53	0.0088	0.0054
Mercury	98854-05-18 23:16 G	37826880.36	37826880.47	37826880.59	0.0088	0.0047
Mercury	98854-08-15 00:28 G	37826968.41	37826968.52	37826968.64	0.0088	0.0040
Mercury	98854-11-11 01:55 G	37827056.46	37827056.58	37827056.70	0.0088	0.0033
Mercury	98855-02-07 03:07 G	37827144.51	37827144.63	37827144.76	0.0088	0.0026
Mercury	98855-05-06 04:19 G	37827232.55	37827232.68	37827232.81	0.0088	0.0019
Mercury	98855-08-02 05:31 G	37827320.60	37827320.73	37827320.86	0.0088	0.0013
Mercury	98855-10-29 06:57 G	37827408.65	37827408.79	37827408.92	0.0088	0.0006
Mercury	98856-01-25 08:09 G	37827496.71	37827496.84	37827496.97	0.0088	0.0002
Mercury	98856-04-22 09:21 G	37827584.76	37827584.89	37827585.02	0.0088	0.0008
Mercury	98856-07-19 10:33 G	37827672.81	37827672.94	37827673.07	0.0088	0.0015

Mercury	98856-10-15 11:45 G	37827760.87	37827760.99	37827761.12	0.0088	0.0022
Mercury	98857-01-11 12:57 G	37827848.92	37827849.04	37827849.17	0.0088	0.0029
Mercury	98857-04-09 14:24 G	37827936.98	37827937.10	37827937.22	0.0088	0.0036
Mercury	98857-07-06 15:35 G	37828025.03	37828025.15	37828025.26	0.0088	0.0043
Mercury	98857-10-02 16:48 G	37828113.09	37828113.20	37828113.31	0.0088	0.0050
Mercury	98857-12-29 18:00 G	37828201.15	37828201.25	37828201.35	0.0088	0.0057
Mercury	98858-03-27 19:11 G	37828289.22	37828289.30	37828289.39	0.0088	0.0064
Mercury	98858-06-23 20:24 G	37828377.28	37828377.35	37828377.43	0.0088	0.0071
Mercury	98858-09-19 21:35 G	37828465.35	37828465.40	37828465.47	0.0088	0.0078
Mercury	98858-12-16 22:48 G	37828553.43	37828553.45	37828553.49	0.0088	0.0085
Venus	98882-10-31 20:38 G	37837273.30	37837273.36	37837273.48	0.0088	0.0081
Venus	98883-06-14 10:19 G	37837498.82	37837498.93	37837499.08	0.0088	0.0070
Venus	98884-01-25 23:45 G	37837724.35	37837724.49	37837724.68	0.0088	0.0060
Venus	98884-09-07 13:26 G	37837949.89	37837950.06	37837950.26	0.0088	0.0049
Moon	98885-03-25 06:00 G	37838148.58	37838148.75	37838148.92	0.0088	0.0066
Earth	98885-03-25 09:07 G	37838148.74	37838148.88	37838149.05	0.0088	0.0070 *
Venus	98885-04-21 03:07 G	37838175.43	37838175.63	37838175.83	0.0088	0.0038
Venus	98885-12-02 16:19 G	37838400.98	37838401.18	37838401.40	0.0088	0.0028
Earth	98886-03-27 21:21 G	37838516.20	37838516.39	37838516.62	0.0088	0.0052
Moon	98886-03-28 00:57 G	37838516.36	37838516.54	37838516.76	0.0088	0.0056 *
Venus	98886-07-16 06:00 G	37838626.53	37838626.75	37838626.97	0.0088	0.0017
Venus	98887-02-26 19:26 G	37838852.09	37838852.31	37838852.54	0.0088	0.0006
Moon	98887-03-30 07:11 G	37838883.57	37838883.80	37838884.06	0.0088	0.0029
Earth	98887-03-30 10:04 G	37838883.69	37838883.92	37838884.17	0.0088	0.0033 *
Venus	98887-10-10 08:52 G	37839077.65	37839077.87	37839078.09	0.0088	0.0004
Earth	98888-03-31 22:19 G	37839251.19	37839251.43	37839251.70	0.0088	0.0015
Moon	98888-04-01 00:00 G	37839251.25	37839251.50	37839251.78	0.0088	0.0019 *
Venus	98888-05-22 22:04 G	37839303.21	37839303.42	37839303.65	0.0088	0.0015
Venus	98889-01-03 11:31 G	37839528.78	37839528.98	37839529.21	0.0088	0.0026
Moon	98889-04-03 10:04 G	37839618.67	37839618.92	37839619.18	0.0088	0.0009

Earth	98889-04-03 11:02 G	37839618.70	37839618.96	37839619.22	0.0088	0.0004	*
Venus	98889-08-17 00:57 G	37839754.35	37839754.54	37839754.76	0.0088	0.0036	
Venus	98890-03-30 14:09 G	37839979.92	37839980.09	37839980.30	0.0088	0.0047	
Moon	98890-04-05 22:48 G	37839986.19	37839986.45	37839986.72	0.0088	0.0018	
Earth	98890-04-05 23:16 G	37839986.23	37839986.47	37839986.74	0.0088	0.0023	*
Venus	98890-11-11 03:35 G	37840205.49	37840205.65	37840205.83	0.0088	0.0057	
Earth	98891-04-08 11:45 G	37840353.77	37840353.99	37840354.23	0.0088	0.0041	
Moon	98891-04-08 13:40 G	37840353.86	37840354.07	37840354.29	0.0088	0.0046	*
Venus	98891-06-24 16:48 G	37840431.08	37840431.20	37840431.36	0.0088	0.0068	
Venus	98892-02-05 06:28 G	37840656.68	37840656.77	37840656.88	0.0088	0.0078	
Moon	98892-04-09 21:21 G	37840721.20	37840721.39	37840721.61	0.0088	0.0056	
Earth	98892-04-09 23:45 G	37840721.32	37840721.49	37840721.70	0.0088	0.0060	*
Earth	98893-04-12 12:14 G	37841088.91	37841089.01	37841089.14	0.0088	0.0078	
Moon	98893-04-12 15:35 G	37841089.09	37841089.15	37841089.26	0.0088	0.0084	*
Mars	98924-03-19 15:07 G	37852386.88	37852387.13	37852387.43	0.0089	0.0040	
Mars	98926-02-11 22:48 G	37853081.26	37853081.45	37853081.69	0.0089	0.0064	
Mercury	98936-11-14 21:35 G	37857010.40	37857010.40	37857010.40	0.0090	0.0090	
Mercury	98937-02-11 00:57 G	37857098.46	37857098.54	37857098.65	0.0090	0.0079	
Mercury	98937-05-10 04:48 G	37857186.59	37857186.70	37857186.84	0.0090	0.0068	
Mercury	98937-08-06 08:38 G	37857274.72	37857274.86	37857275.03	0.0090	0.0057	
Mercury	98937-11-02 12:28 G	37857362.86	37857363.02	37857363.20	0.0090	0.0046	
Mercury	98938-01-29 16:19 G	37857451.01	37857451.18	37857451.37	0.0090	0.0035	
Mercury	98938-04-27 20:24 G	37857539.16	37857539.35	37857539.54	0.0090	0.0024	
Mercury	98938-07-25 00:14 G	37857627.32	37857627.51	37857627.71	0.0090	0.0013	
Mercury	98938-10-21 04:04 G	37857715.47	37857715.67	37857715.87	0.0090	0.0002	
Mercury	98939-01-17 07:55 G	37857803.63	37857803.83	37857804.03	0.0090	0.0009	
Mercury	98939-04-15 11:31 G	37857891.80	37857891.98	37857892.18	0.0090	0.0021	
Mercury	98939-07-12 15:21 G	37857979.96	37857980.14	37857980.33	0.0090	0.0032	
Mercury	98939-10-08 19:11 G	37858068.13	37858068.30	37858068.48	0.0090	0.0043	
Mercury	98940-01-04 22:48 G	37858156.31	37858156.45	37858156.62	0.0090	0.0054	

Mercury	98940-04-02 02:38 G	37858244.49	37858244.61	37858244.76	0.0090	0.0065
Mercury	98940-06-29 06:14 G	37858332.68	37858332.76	37858332.89	0.0090	0.0076
Mercury	98940-09-25 10:04 G	37858420.89	37858420.92	37858420.99	0.0090	0.0087
Venus	98964-05-06 05:45 G	37867044.66	37867044.74	37867044.85	0.0090	0.0080
Venus	98964-12-17 18:43 G	37867270.14	37867270.28	37867270.41	0.0090	0.0069
Venus	98965-07-31 06:57 G	37867495.65	37867495.79	37867495.97	0.0090	0.0059
Earth	98965-09-22 21:35 G	37867549.36	37867549.40	37867549.49	0.0090	0.0087
Moon	98965-09-23 00:57 G	37867549.48	37867549.54	37867549.63	0.0090	0.0085 *
Venus	98966-03-13 19:55 G	37867721.15	37867721.33	37867721.52	0.0090	0.0048
Moon	98966-09-25 05:45 G	37867916.59	37867916.74	37867916.91	0.0089	0.0070
Earth	98966-09-25 08:52 G	37867916.73	37867916.87	37867917.06	0.0089	0.0068 *
Venus	98966-10-25 08:38 G	37867946.66	37867946.86	37867947.06	0.0089	0.0037
Venus	98967-06-07 20:52 G	37868172.18	37868172.37	37868172.59	0.0089	0.0027
Earth	98967-09-27 19:55 G	37868284.14	37868284.33	37868284.56	0.0089	0.0049
Moon	98967-09-27 23:59 G	37868284.28	37868284.50	37868284.72	0.0089	0.0046 *
Venus	98968-01-19 09:50 G	37868397.70	37868397.91	37868398.13	0.0089	0.0015
Venus	98968-08-31 22:33 G	37868623.22	37868623.44	37868623.65	0.0089	0.0005
Moon	98968-09-29 04:19 G	37868651.46	37868651.68	37868651.93	0.0089	0.0032
Earth	98968-09-29 07:11 G	37868651.57	37868651.80	37868652.05	0.0089	0.0030 *
Venus	98969-04-14 11:02 G	37868848.74	37868848.96	37868849.18	0.0089	0.0006
Earth	98969-10-01 18:14 G	37869019.01	37869019.26	37869019.52	0.0089	0.0011
Moon	98969-10-01 20:52 G	37869019.11	37869019.37	37869019.63	0.0089	0.0007 *
Venus	98969-11-25 23:16 G	37869074.27	37869074.47	37869074.70	0.0089	0.0018
Venus	98970-07-09 12:14 G	37869299.81	37869300.01	37869300.22	0.0089	0.0028
Moon	98970-10-04 04:04 G	37869386.43	37869386.67	37869386.92	0.0089	0.0006
Earth	98970-10-04 05:02 G	37869386.46	37869386.71	37869386.97	0.0089	0.0009 *
Venus	98971-02-20 00:43 G	37869525.35	37869525.53	37869525.74	0.0089	0.0039
Venus	98971-10-03 13:11 G	37869750.88	37869751.05	37869751.24	0.0089	0.0049
Moon	98971-10-06 15:35 G	37869753.91	37869754.15	37869754.41	0.0089	0.0029
Earth	98971-10-06 15:50 G	37869753.93	37869754.16	37869754.41	0.0089	0.0027 *

Venus	98972-05-16 01:55 G	37869976.43	37869976.58	37869976.75	0.0089	0.0060
Earth	98972-10-08 02:38 G	37870121.41	37870121.61	37870121.84	0.0089	0.0046
Moon	98972-10-08 03:35 G	37870121.46	37870121.65	37870121.89	0.0089	0.0044 *
Venus	98972-12-27 14:23 G	37870201.98	37870202.10	37870202.24	0.0089	0.0071
Venus	98973-08-10 02:52 G	37870427.55	37870427.62	37870427.73	0.0089	0.0082
Moon	98973-10-10 10:33 G	37870488.80	37870488.94	37870489.14	0.0089	0.0068
Earth	98973-10-10 13:40 G	37870488.90	37870489.07	37870489.25	0.0089	0.0065 *
Earth	98974-10-13 00:14 G	37870856.44	37870856.51	37870856.62	0.0089	0.0084
Moon	98974-10-13 03:07 G	37870856.56	37870856.63	37870856.76	0.0089	0.0082 *

# 100TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 100th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	99005-11-29 16:47 G	37882225.88	37882226.20	37882226.52	0.0088	0.0009		
Mercury	99017-09-04 15:35 G	37886523.13	37886523.15	37886523.19	0.0088	0.0085		
Mercury	99017-12-01 16:47 G	37886611.15	37886611.20	37886611.27	0.0088	0.0078		
Mercury	99018-02-27 18:14 G	37886699.19	37886699.26	37886699.34	0.0088	0.0071		
Mercury	99018-05-26 19:26 G	37886787.23	37886787.31	37886787.41	0.0088	0.0064		
Mercury	99018-08-22 20:38 G	37886875.27	37886875.36	37886875.47	0.0088	0.0057		
Mercury	99018-11-18 22:04 G	37886963.31	37886963.42	37886963.53	0.0088	0.0050		
Mercury	99019-02-14 23:16 G	37887051.36	37887051.47	37887051.59	0.0088	0.0043		
Mercury	99019-05-14 00:28 G	37887139.41	37887139.52	37887139.64	0.0088	0.0036		

Mercury	99019-08-10 01:40 G	37887227.45	37887227.57	37887227.70	0.0088	0.0030
Mercury	99019-11-06 02:52 G	37887315.50	37887315.62	37887315.76	0.0088	0.0023
Mercury	99020-02-02 04:19 G	37887403.55	37887403.68	37887403.81	0.0088	0.0016
Mercury	99020-04-30 05:31 G	37887491.60	37887491.73	37887491.86	0.0088	0.0009
Mercury	99020-07-27 06:43 G	37887579.65	37887579.78	37887579.92	0.0088	0.0003
Mercury	99020-10-23 08:09 G	37887667.70	37887667.84	37887667.97	0.0088	0.0006
Mercury	99021-01-19 09:21 G	37887755.76	37887755.89	37887756.02	0.0088	0.0012
Mercury	99021-04-17 10:33 G	37887843.81	37887843.94	37887844.07	0.0088	0.0019
Mercury	99021-07-14 11:45 G	37887931.87	37887931.99	37887932.12	0.0088	0.0026
Mercury	99021-10-10 12:57 G	37888019.92	37888020.04	37888020.17	0.0088	0.0033
Mercury	99022-01-06 14:09 G	37888107.98	37888108.09	37888108.21	0.0088	0.0040
Mercury	99022-04-04 15:21 G	37888196.04	37888196.14	37888196.26	0.0088	0.0047
Mercury	99022-07-01 16:33 G	37888284.09	37888284.19	37888284.30	0.0088	0.0054
Mercury	99022-09-27 17:45 G	37888372.16	37888372.24	37888372.35	0.0088	0.0061
Mercury	99022-12-24 18:57 G	37888460.22	37888460.29	37888460.39	0.0088	0.0068
Mercury	99023-03-22 20:09 G	37888548.29	37888548.34	37888548.42	0.0088	0.0075
Mercury	99023-06-18 21:50 G	37888636.36	37888636.41	37888636.45	0.0088	0.0081
Venus	99047-02-04 07:40 G	37897267.77	37897267.82	37897267.91	0.0088	0.0083
Venus	99047-09-17 20:52 G	37897493.27	37897493.37	37897493.52	0.0088	0.0073
Venus	99048-04-30 10:33 G	37897718.80	37897718.94	37897719.11	0.0088	0.0062
Venus	99048-12-12 00:14 G	37897944.33	37897944.51	37897944.70	0.0088	0.0051
Earth	99049-03-26 18:14 G	37898049.15	37898049.26	37898049.42	0.0088	0.0075
Moon	99049-03-26 21:21 G	37898049.25	37898049.39	37898049.56	0.0088	0.0071 *
Venus	99049-07-25 13:26 G	37898169.87	37898170.06	37898170.27	0.0088	0.0041
Venus	99050-03-08 03:07 G	37898395.42	37898395.63	37898395.84	0.0088	0.0030
Moon	99050-03-29 04:33 G	37898416.52	37898416.69	37898416.90	0.0088	0.0059
Earth	99050-03-29 06:57 G	37898416.60	37898416.79	37898417.00	0.0088	0.0056 *
Venus	99050-10-19 16:19 G	37898620.97	37898621.18	37898621.41	0.0088	0.0020
Earth	99051-03-31 19:11 G	37898784.08	37898784.30	37898784.55	0.0088	0.0038
Moon	99051-03-31 20:23 G	37898784.11	37898784.35	37898784.61	0.0088	0.0035 *



Venus	99051-06-02 05:59 G	37898846.53	37898846.75	37898846.97	0.0088	0.0009
Venus	99052-01-13 19:26 G	37899072.09	37899072.31	37899072.54	0.0088	0.0002
Earth	99052-04-02 07:40 G	37899151.57	37899151.82	37899152.08	0.0088	0.0019
Moon	99052-04-02 08:23 G	37899151.60	37899151.85	37899152.09	0.0088	0.0022 *
Venus	99052-08-26 08:52 G	37899297.65	37899297.87	37899298.10	0.0088	0.0012
Moon	99053-04-04 19:11 G	37899519.02	37899519.30	37899519.57	0.0088	0.0002
Earth	99053-04-04 20:23 G	37899519.09	37899519.35	37899519.61	0.0088	0.0001 *
Venus	99053-04-08 22:04 G	37899523.22	37899523.42	37899523.65	0.0088	0.0023
Venus	99053-11-20 11:31 G	37899748.78	37899748.98	37899749.20	0.0088	0.0034
Earth	99054-04-07 08:38 G	37899886.61	37899886.86	37899887.13	0.0088	0.0018
Moon	99054-04-07 11:02 G	37899886.72	37899886.96	37899887.22	0.0088	0.0016 *
Venus	99054-07-04 00:57 G	37899974.36	37899974.54	37899974.74	0.0088	0.0044
Venus	99055-02-14 14:23 G	37900199.94	37900200.10	37900200.29	0.0088	0.0055
Moon	99055-04-09 17:31 G	37900254.01	37900254.23	37900254.48	0.0088	0.0040
Earth	99055-04-09 20:52 G	37900254.15	37900254.37	37900254.63	0.0088	0.0037 *
Venus	99055-09-28 04:04 G	37900425.53	37900425.67	37900425.82	0.0088	0.0065
Earth	99056-04-11 09:35 G	37900621.70	37900621.90	37900622.11	0.0088	0.0055
Moon	99056-04-11 12:28 G	37900621.85	37900622.02	37900622.26	0.0088	0.0055 *
Venus	99056-05-10 17:02 G	37900651.12	37900651.21	37900651.34	0.0088	0.0076
Venus	99056-12-22 06:43 G	37900876.75	37900876.78	37900876.83	0.0088	0.0086
Moon	99057-04-13 18:14 G	37900989.15	37900989.26	37900989.40	0.0088	0.0076
Earth	99057-04-13 21:50 G	37900989.29	37900989.41	37900989.57	0.0088	0.0074 *
Mars	99087-11-03 15:35 G	37912150.02	37912150.15	37912150.36	0.0089	0.0075
Mars	99089-09-28 02:09 G	37912844.31	37912844.59	37912844.88	0.0089	0.0029
Mercury	99101-08-13 20:09 G	37917181.28	37917181.34	37917181.42	0.0090	0.0084
Mercury	99101-11-09 23:59 G	37917269.40	37917269.50	37917269.62	0.0090	0.0073
Mercury	99102-02-06 03:50 G	37917357.53	37917357.66	37917357.81	0.0090	0.0062
Mercury	99102-05-05 07:40 G	37917445.67	37917445.82	37917445.99	0.0090	0.0051
Mercury	99102-08-01 11:31 G	37917533.81	37917533.98	37917534.16	0.0090	0.0040
Mercury	99102-10-28 15:21 G	37917621.96	37917622.14	37917622.33	0.0090	0.0029

Mercury	99103-01-24 19:11 G	37917710.11	37917710.30	37917710.50	0.0090	0.0018
Mercury	99103-04-22 23:02 G	37917798.27	37917798.46	37917798.66	0.0090	0.0007
Mercury	99103-07-20 02:52 G	37917886.43	37917886.62	37917886.82	0.0090	0.0004
Mercury	99103-10-16 06:43 G	37917974.59	37917974.78	37917974.98	0.0090	0.0015
Mercury	99104-01-12 10:19 G	37918062.75	37918062.93	37918063.13	0.0090	0.0027
Mercury	99104-04-09 14:09 G	37918150.92	37918151.09	37918151.28	0.0090	0.0037
Mercury	99104-07-06 17:45 G	37918239.09	37918239.24	37918239.43	0.0090	0.0049
Mercury	99104-10-02 21:35 G	37918327.27	37918327.40	37918327.57	0.0090	0.0060
Mercury	99104-12-30 01:55 G	37918415.46	37918415.58	37918415.70	0.0090	0.0070
Mercury	99105-03-28 05:31 G	37918503.65	37918503.73	37918503.82	0.0090	0.0081
Venus	99128-08-09 17:16 G	37927039.16	37927039.22	37927039.33	0.0090	0.0083
Venus	99129-03-23 06:14 G	37927264.65	37927264.76	37927264.90	0.0090	0.0072
Moon	99129-09-24 05:02 G	37927449.67	37927449.71	37927449.79	0.0090	0.0087
Venus	99129-11-03 18:57 G	37927490.14	37927490.29	37927490.46	0.0090	0.0061
Venus	99130-06-17 07:26 G	37927715.65	37927715.81	37927716.01	0.0089	0.0051
Earth	99130-09-26 19:40 G	37927817.19	37927817.32	37927817.49	0.0089	0.0073
Moon	99130-09-26 23:02 G	37927817.35	37927817.46	37927817.61	0.0089	0.0077 *
Venus	99131-01-28 20:09 G	37927941.16	37927941.34	37927941.55	0.0089	0.0040
Venus	99131-09-11 09:07 G	37928166.68	37928166.88	37928167.09	0.0089	0.0029
Moon	99131-09-29 04:33 G	37928184.49	37928184.69	37928184.91	0.0089	0.0049
Earth	99131-09-29 07:11 G	37928184.61	37928184.80	37928185.02	0.0089	0.0054 *
Venus	99132-04-23 21:50 G	37928392.20	37928392.41	37928392.62	0.0089	0.0018
Earth	99132-09-30 18:14 G	37928552.04	37928552.26	37928552.51	0.0089	0.0035
Moon	99132-09-30 19:55 G	37928552.10	37928552.33	37928552.57	0.0089	0.0039 *
Venus	99132-12-05 10:19 G	37928617.72	37928617.93	37928618.15	0.0089	0.0007
Venus	99133-07-18 23:02 G	37928843.25	37928843.46	37928843.68	0.0089	0.0005
Moon	99133-10-03 04:47 G	37928919.47	37928919.70	37928919.95	0.0089	0.0012
Earth	99133-10-03 05:31 G	37928919.48	37928919.73	37928919.98	0.0089	0.0015 *
Venus	99134-03-01 11:45 G	37929068.78	37929068.99	37929069.21	0.0089	0.0015
Moon	99134-10-05 15:50 G	37929286.90	37929287.16	37929287.42	0.0089	0.0001

Earth	99134-10-05 16:33 G	37929286.94	37929287.19	37929287.45	0.0089	0.0004	*
Venus	99134-10-13 00:14 G	37929294.31	37929294.51	37929294.72	0.0089	0.0025	
Venus	99135-05-26 12:43 G	37929519.84	37929520.03	37929520.24	0.0089	0.0036	
Earth	99135-10-08 03:21 G	37929654.40	37929654.64	37929654.90	0.0089	0.0023	
Moon	99135-10-08 05:31 G	37929654.51	37929654.73	37929654.98	0.0089	0.0027	*
Venus	99136-01-07 01:26 G	37929745.38	37929745.56	37929745.75	0.0089	0.0047	
Venus	99136-08-19 13:55 G	37929970.93	37929971.08	37929971.26	0.0089	0.0058	
Moon	99136-10-09 11:16 G	37930021.76	37930021.97	37930022.23	0.0089	0.0038	
Earth	99136-10-09 14:09 G	37930021.88	37930022.09	37930022.33	0.0089	0.0042	*
Venus	99137-04-02 02:23 G	37930196.48	37930196.60	37930196.76	0.0089	0.0068	
Earth	99137-10-12 00:43 G	37930389.37	37930389.53	37930389.74	0.0089	0.0061	
Moon	99137-10-12 04:47 G	37930389.53	37930389.70	37930389.88	0.0089	0.0065	*
Venus	99137-11-13 15:07 G	37930422.04	37930422.13	37930422.24	0.0089	0.0079	
Venus	99138-06-27 03:50 G	37930647.66	37930647.66	37930647.68	0.0089	0.0089	
Moon	99138-10-14 08:23 G	37930756.73	37930756.85	37930757.01	0.0089	0.0075	
Earth	99138-10-14 11:31 G	37930756.89	37930756.98	37930757.13	0.0089	0.0080	*
Mars	99169-07-15 03:07 G	37941988.38	37941988.63	37941988.94	0.0088	0.0043	
Mars	99171-06-10 05:59 G	37942683.56	37942683.75	37942684.02	0.0088	0.0063	
Mercury	99182-06-02 15:35 G	37946694.11	37946694.15	37946694.21	0.0088	0.0081	
Mercury	99182-08-29 17:02 G	37946782.14	37946782.21	37946782.28	0.0088	0.0074	
Mercury	99182-11-25 18:14 G	37946870.18	37946870.26	37946870.34	0.0088	0.0067	
Mercury	99183-02-21 19:11 G	37946958.22	37946958.30	37946958.41	0.0088	0.0061	
Mercury	99183-05-20 20:38 G	37947046.26	37947046.36	37947046.47	0.0088	0.0054	
Mercury	99183-08-16 21:50 G	37947134.31	37947134.41	37947134.53	0.0088	0.0047	
Mercury	99183-11-12 23:02 G	37947222.35	37947222.46	37947222.59	0.0088	0.0040	
Mercury	99184-02-09 00:28 G	37947310.40	37947310.52	37947310.64	0.0088	0.0033	
Mercury	99184-05-07 01:40 G	37947398.45	37947398.57	37947398.70	0.0088	0.0026	
Mercury	99184-08-03 03:07 G	37947486.50	37947486.63	37947486.76	0.0088	0.0019	
Mercury	99184-10-30 04:19 G	37947574.55	37947574.68	37947574.81	0.0088	0.0012	
Mercury	99185-01-26 05:31 G	37947662.60	37947662.73	37947662.86	0.0088	0.0005	

Mercury	99185-04-24 06:43 G	37947750.65	37947750.78	37947750.91	0.0088	0.0002
Mercury	99185-07-21 07:55 G	37947838.70	37947838.83	37947838.96	0.0088	0.0009
Mercury	99185-10-17 09:07 G	37947926.76	37947926.88	37947927.01	0.0088	0.0016
Mercury	99186-01-13 10:19 G	37948014.81	37948014.93	37948015.06	0.0088	0.0023
Mercury	99186-04-11 11:31 G	37948102.86	37948102.98	37948103.11	0.0088	0.0030
Mercury	99186-07-08 12:43 G	37948190.92	37948191.03	37948191.16	0.0088	0.0037
Mercury	99186-10-04 13:55 G	37948278.98	37948279.08	37948279.21	0.0088	0.0044
Mercury	99186-12-31 15:21 G	37948367.04	37948367.14	37948367.25	0.0088	0.0050
Mercury	99187-03-29 16:33 G	37948455.10	37948455.19	37948455.29	0.0088	0.0057
Mercury	99187-06-25 17:45 G	37948543.16	37948543.24	37948543.34	0.0088	0.0064
Mercury	99187-09-21 18:57 G	37948631.22	37948631.29	37948631.38	0.0088	0.0071
Mercury	99187-12-18 20:09 G	37948719.29	37948719.34	37948719.41	0.0088	0.0078
Mercury	99188-03-15 21:21 G	37948807.37	37948807.39	37948807.44	0.0088	0.0085
Saturn	99198-04-14 03:21 G	37952488.25	37952488.64	37952489.13	0.0088	0.0068
Venus	99211-05-09 18:43 G	37957262.24	37957262.28	37957262.35	0.0088	0.0085
Venus	99211-12-21 07:55 G	37957487.74	37957487.83	37957487.97	0.0088	0.0075
Venus	99212-08-02 21:35 G	37957713.26	37957713.40	37957713.57	0.0088	0.0064
Venus	99213-03-16 10:47 G	37957938.80	37957938.95	37957939.15	0.0088	0.0054
Moon	99213-03-27 03:07 G	37957949.57	37957949.63	37957949.75	0.0088	0.0082
Earth	99213-03-27 04:33 G	37957949.60	37957949.69	37957949.82	0.0088	0.0079 *
Venus	99213-10-28 00:28 G	37958164.33	37958164.52	37958164.72	0.0088	0.0043
Moon	99214-03-29 17:02 G	37958317.02	37958317.21	37958317.43	0.0088	0.0058
Earth	99214-03-29 16:33 G	37958317.03	37958317.19	37958317.40	0.0088	0.0061 *
Venus	99214-06-10 13:40 G	37958389.88	37958390.07	37958390.29	0.0088	0.0033
Venus	99215-01-22 03:21 G	37958615.43	37958615.64	37958615.87	0.0088	0.0022
Earth	99215-04-01 05:02 G	37958684.49	37958684.71	37958684.95	0.0088	0.0042
Moon	99215-04-01 05:31 G	37958684.54	37958684.73	37958684.97	0.0088	0.0046 *
Venus	99215-09-04 17:02 G	37958840.98	37958841.21	37958841.43	0.0088	0.0011
Moon	99216-04-02 14:52 G	37959051.87	37959052.12	37959052.39	0.0088	0.0021
Earth	99216-04-02 17:16 G	37959051.98	37959052.22	37959052.48	0.0088	0.0024 *

Venus	99216-04-17 06:14 G	37959066.54	37959066.76	37959066.99	0.0088	0.0001
Venus	99216-11-28 19:40 G	37959292.10	37959292.32	37959292.54	0.0088	0.0010
Earth	99217-04-05 05:45 G	37959419.48	37959419.74	37959420.01	0.0088	0.0005
Moon	99217-04-05 08:38 G	37959419.61	37959419.86	37959420.12	0.0088	0.0008 *
Venus	99217-07-12 08:52 G	37959517.66	37959517.87	37959518.10	0.0088	0.0021
Venus	99218-02-22 22:33 G	37959743.23	37959743.44	37959743.65	0.0088	0.0031
Moon	99218-04-07 14:23 G	37959786.85	37959787.10	37959787.37	0.0088	0.0017
Earth	99218-04-07 18:14 G	37959787.00	37959787.26	37959787.52	0.0088	0.0013 *
Venus	99218-10-06 11:45 G	37959968.80	37959968.99	37959969.20	0.0088	0.0042
Earth	99219-04-10 06:28 G	37960154.53	37960154.77	37960155.02	0.0088	0.0032
Moon	99219-04-10 09:50 G	37960154.68	37960154.91	37960155.18	0.0088	0.0029 *
Venus	99219-05-20 01:11 G	37960194.38	37960194.55	37960194.74	0.0088	0.0052
Venus	99219-12-31 14:23 G	37960419.97	37960420.10	37960420.28	0.0088	0.0063
Moon	99220-04-11 15:50 G	37960521.96	37960522.16	37960522.37	0.0088	0.0054
Earth	99220-04-11 18:43 G	37960522.08	37960522.28	37960522.51	0.0088	0.0051 *
Venus	99220-08-13 04:19 G	37960645.56	37960645.68	37960645.80	0.0088	0.0073
Venus	99221-03-26 17:16 G	37960871.17	37960871.22	37960871.30	0.0088	0.0084
Earth	99221-04-14 07:26 G	37960889.66	37960889.81	37960889.98	0.0088	0.0069
Moon	99221-04-14 10:04 G	37960889.76	37960889.92	37960890.12	0.0088	0.0065 *
Earth	99222-04-16 19:55 G	37961257.33	37961257.33	37961257.36	0.0088	0.0088
Mars	99253-05-14 04:04 G	37972607.37	37972607.67	37972607.98	0.0089	0.0005
Mercury	99266-02-11 14:52 G	37977264.12	37977264.12	37977264.15	0.0090	0.0089
Mercury	99266-05-10 18:43 G	37977352.20	37977352.28	37977352.39	0.0090	0.0079
Mercury	99266-08-06 22:33 G	37977440.33	37977440.44	37977440.59	0.0090	0.0068
Mercury	99266-11-03 02:23 G	37977528.46	37977528.60	37977528.77	0.0090	0.0057
Mercury	99267-01-30 06:14 G	37977616.61	37977616.76	37977616.95	0.0090	0.0046
Mercury	99267-04-28 10:04 G	37977704.75	37977704.92	37977705.12	0.0090	0.0035
Mercury	99267-07-25 13:55 G	37977792.90	37977793.08	37977793.28	0.0090	0.0024
Mercury	99267-10-21 17:59 G	37977881.06	37977881.25	37977881.45	0.0090	0.0012
Mercury	99268-01-17 21:50 G	37977969.22	37977969.41	37977969.61	0.0090	0.0002

Mercury	99268-04-15 01:40 G	37978057.38	37978057.57	37978057.77	0.0090	0.0010
Mercury	99268-07-12 05:31 G	37978145.54	37978145.73	37978145.92	0.0090	0.0021
Mercury	99268-10-08 09:07 G	37978233.71	37978233.88	37978234.07	0.0090	0.0032
Mercury	99269-01-04 12:57 G	37978321.88	37978322.04	37978322.22	0.0090	0.0043
Mercury	99269-04-02 16:47 G	37978410.05	37978410.20	37978410.36	0.0090	0.0054
Mercury	99269-06-29 20:23 G	37978498.23	37978498.35	37978498.50	0.0090	0.0065
Mercury	99269-09-26 00:14 G	37978586.42	37978586.51	37978586.63	0.0090	0.0076
Mercury	99269-12-23 03:50 G	37978674.64	37978674.66	37978674.73	0.0090	0.0087
Venus	99292-11-11 05:16 G	37987033.67	37987033.72	37987033.81	0.0090	0.0085
Venus	99293-06-24 18:28 G	37987259.15	37987259.27	37987259.39	0.0090	0.0074
Venus	99294-02-05 06:43 G	37987484.65	37987484.78	37987484.95	0.0090	0.0064
Venus	99294-09-18 19:26 G	37987710.15	37987710.31	37987710.49	0.0090	0.0053
Moon	99294-09-26 04:47 G	37987717.58	37987717.70	37987717.83	0.0090	0.0077
Earth	99294-09-26 06:28 G	37987717.66	37987717.77	37987717.91	0.0090	0.0078 *
Venus	99295-05-02 08:09 G	37987935.65	37987935.84	37987936.03	0.0090	0.0042
Earth	99295-09-28 17:45 G	37988085.06	37988085.24	37988085.45	0.0089	0.0059
Moon	99295-09-28 18:57 G	37988085.11	37988085.29	37988085.50	0.0089	0.0060 *
Venus	99295-12-13 20:38 G	37988161.17	37988161.36	37988161.57	0.0089	0.0031
Venus	99296-07-26 09:21 G	37988386.69	37988386.89	37988387.11	0.0089	0.0021
Earth	99296-09-30 04:47 G	37988452.49	37988452.70	37988452.95	0.0089	0.0040
Moon	99296-09-30 05:16 G	37988452.52	37988452.72	37988452.96	0.0089	0.0040 *
Venus	99297-03-08 22:19 G	37988612.21	37988612.43	37988612.64	0.0089	0.0010
Moon	99297-10-02 14:38 G	37988819.87	37988820.11	37988820.38	0.0089	0.0021
Earth	99297-10-02 16:19 G	37988819.94	37988820.18	37988820.43	0.0089	0.0021 *
Venus	99297-10-20 10:47 G	37988837.74	37988837.95	37988838.17	0.0089	0.0002
Venus	99298-06-02 23:16 G	37989063.27	37989063.47	37989063.69	0.0089	0.0013
Earth	99298-10-05 03:35 G	37989187.39	37989187.65	37989187.90	0.0089	0.0002
Moon	99298-10-05 05:45 G	37989187.50	37989187.74	37989187.99	0.0089	0.0002 *
Venus	99299-01-14 11:59 G	37989288.80	37989289.00	37989289.22	0.0089	0.0023
Venus	99299-08-28 00:43 G	37989514.33	37989514.53	37989514.74	0.0089	0.0034

Moon	99299-10-07 11:02 G	37989554.71	37989554.96	37989555.22	0.0089	0.0018
Earth	99299-10-07 14:38 G	37989554.86	37989555.11	37989555.36	0.0089	0.0018 *
Venus	99300-04-10 12:57 G	37989739.87	37989740.04	37989740.25	0.0089	0.0045
Earth	99300-10-10 01:26 G	37989922.33	37989922.56	37989922.79	0.0089	0.0037
Moon	99300-10-10 04:33 G	37989922.47	37989922.69	37989922.93	0.0089	0.0038 *
Venus	99300-11-22 01:55 G	37989965.41	37989965.58	37989965.75	0.0089	0.0055
Venus	99301-07-05 14:23 G	37990190.97	37990191.10	37990191.26	0.0089	0.0066
Moon	99301-10-12 08:23 G	37990289.67	37990289.85	37990290.07	0.0089	0.0054
Earth	99301-10-12 12:14 G	37990289.82	37990290.01	37990290.21	0.0089	0.0056 *
Venus	99302-02-16 02:52 G	37990416.53	37990416.62	37990416.75	0.0089	0.0077
Venus	99302-09-29 15:50 G	37990642.12	37990642.16	37990642.21	0.0089	0.0087
Earth	99302-10-14 22:47 G	37990657.33	37990657.45	37990657.61	0.0089	0.0075
Moon	99302-10-15 01:26 G	37990657.44	37990657.56	37990657.72	0.0089	0.0076 *
Mars	99333-02-27 14:09 G	38001750.95	38001751.09	38001751.26	0.0088	0.0077
Mars	99335-01-23 16:19 G	38002445.90	38002446.18	38002446.51	0.0088	0.0029
Mercury	99346-12-02 14:09 G	38006777.07	38006777.09	38006777.14	0.0088	0.0085
Mercury	99347-02-28 15:21 G	38006865.10	38006865.14	38006865.21	0.0088	0.0078
Mercury	99347-05-27 16:47 G	38006953.13	38006953.20	38006953.28	0.0088	0.0071
Mercury	99347-08-23 17:59 G	38007041.17	38007041.25	38007041.35	0.0088	0.0064
Mercury	99347-11-19 19:11 G	38007129.21	38007129.30	38007129.41	0.0088	0.0057
Mercury	99348-02-15 20:38 G	38007217.26	38007217.36	38007217.47	0.0088	0.0050
Mercury	99348-05-13 21:50 G	38007305.30	38007305.41	38007305.53	0.0088	0.0043
Mercury	99348-08-09 23:16 G	38007393.35	38007393.47	38007393.59	0.0088	0.0036
Mercury	99348-11-06 00:28 G	38007481.40	38007481.52	38007481.65	0.0088	0.0029
Mercury	99349-02-02 01:40 G	38007569.45	38007569.57	38007569.70	0.0088	0.0022
Mercury	99349-05-01 02:52 G	38007657.50	38007657.62	38007657.75	0.0088	0.0016
Mercury	99349-07-28 04:19 G	38007745.55	38007745.68	38007745.81	0.0088	0.0009
Mercury	99349-10-24 05:31 G	38007833.60	38007833.73	38007833.86	0.0088	0.0002
Mercury	99350-01-20 06:43 G	38007921.65	38007921.78	38007921.91	0.0088	0.0006
Mercury	99350-04-18 07:55 G	38008009.70	38008009.83	38008009.96	0.0088	0.0012

Mercury	99350-07-15 09:07 G	38008097.75	38008097.88	38008098.01	0.0088	0.0019
Mercury	99350-10-11 10:19 G	38008185.81	38008185.93	38008186.06	0.0088	0.0026
Mercury	99351-01-07 11:45 G	38008273.87	38008273.99	38008274.11	0.0088	0.0033
Mercury	99351-04-05 12:57 G	38008361.92	38008362.04	38008362.16	0.0088	0.0040
Mercury	99351-07-02 14:09 G	38008449.98	38008450.09	38008450.20	0.0088	0.0047
Mercury	99351-09-28 15:21 G	38008538.04	38008538.14	38008538.25	0.0088	0.0054
Mercury	99351-12-25 16:33 G	38008626.10	38008626.19	38008626.29	0.0088	0.0061
Mercury	99352-03-22 17:45 G	38008714.17	38008714.24	38008714.33	0.0088	0.0068
Mercury	99352-06-18 18:57 G	38008802.23	38008802.29	38008802.37	0.0088	0.0075
Mercury	99352-09-14 20:09 G	38008890.31	38008890.34	38008890.40	0.0088	0.0082
Venus	99375-08-12 05:31 G	38017256.72	38017256.73	38017256.77	0.0088	0.0087
Venus	99376-03-24 18:43 G	38017482.19	38017482.28	38017482.41	0.0088	0.0077
Venus	99376-11-05 08:38 G	38017707.71	38017707.86	38017708.01	0.0088	0.0066
Earth	99377-03-27 14:09 G	38017850.04	38017850.09	38017850.19	0.0088	0.0084
Moon	99377-03-27 13:55 G	38017850.08	38017850.08	38017850.09	0.0088	0.0088 *
Venus	99377-06-18 21:35 G	38017933.25	38017933.40	38017933.59	0.0088	0.0056
Venus	99378-01-30 11:31 G	38018158.79	38018158.98	38018159.18	0.0088	0.0045
Earth	99378-03-30 02:38 G	38018217.44	38018217.61	38018217.79	0.0088	0.0065
Moon	99378-03-30 03:50 G	38018217.51	38018217.66	38018217.87	0.0088	0.0062 *
Venus	99378-09-13 00:43 G	38018384.34	38018384.53	38018384.75	0.0088	0.0035
Moon	99379-04-01 11:59 G	38018584.81	38018585.00	38018585.24	0.0088	0.0051
Earth	99379-04-01 14:38 G	38018584.91	38018585.11	38018585.35	0.0088	0.0047 *
Venus	99379-04-26 14:23 G	38018609.88	38018610.10	38018610.32	0.0088	0.0024
Venus	99379-12-08 03:35 G	38018835.44	38018835.65	38018835.88	0.0088	0.0014
Earth	99380-04-03 02:52 G	38018952.39	38018952.62	38018952.88	0.0088	0.0029
Moon	99380-04-03 06:43 G	38018952.54	38018952.78	38018953.03	0.0088	0.0024 *
Venus	99380-07-20 17:16 G	38019060.99	38019061.22	38019061.44	0.0088	0.0003
Venus	99381-03-03 06:28 G	38019286.55	38019286.77	38019287.00	0.0088	0.0008
Moon	99381-04-05 11:59 G	38019319.75	38019320.00	38019320.26	0.0088	0.0014
Earth	99381-04-05 15:21 G	38019319.89	38019320.14	38019320.41	0.0088	0.0010 *



Venus	99381-10-14 19:55 G	38019512.11	38019512.33	38019512.55	0.0088	0.0018
Earth	99382-04-08 03:50 G	38019687.40	38019687.66	38019687.92	0.0088	0.0009
Moon	99382-04-08 07:26 G	38019687.55	38019687.81	38019688.07	0.0088	0.0012 *
Venus	99382-05-28 09:07 G	38019737.68	38019737.88	38019738.10	0.0088	0.0029
Venus	99383-01-08 22:33 G	38019963.25	38019963.44	38019963.65	0.0088	0.0040
Moon	99383-04-10 12:57 G	38020054.81	38020055.04	38020055.30	0.0088	0.0024
Earth	99383-04-10 15:50 G	38020054.93	38020055.16	38020055.43	0.0088	0.0028 *
Venus	99383-08-22 11:59 G	38020188.83	38020189.00	38020189.20	0.0088	0.0050
Venus	99384-04-04 01:11 G	38020414.41	38020414.55	38020414.73	0.0088	0.0061
Earth	99384-04-12 04:19 G	38020422.47	38020422.68	38020422.92	0.0088	0.0046
Moon	99384-04-12 06:28 G	38020422.55	38020422.77	38020423.00	0.0088	0.0049 *
Venus	99384-11-15 14:38 G	38020640.00	38020640.11	38020640.26	0.0088	0.0071
Moon	99385-04-14 15:35 G	38020789.99	38020790.15	38020790.35	0.0088	0.0062
Earth	99385-04-14 16:47 G	38020790.04	38020790.20	38020790.39	0.0088	0.0065 *
Venus	99385-06-29 03:50 G	38020865.61	38020865.66	38020865.77	0.0088	0.0082
Earth	99386-04-17 05:16 G	38021157.65	38021157.72	38021157.82	0.0088	0.0083
Moon	99386-04-17 04:19 G	38021157.67	38021157.68	38021157.75	0.0088	0.0087 *
Mars	99416-12-29 03:21 G	38032370.38	38032370.64	38032370.94	0.0089	0.0038
Mars	99418-11-23 14:38 G	38033064.93	38033065.11	38033065.35	0.0089	0.0064
Mercury	99430-11-10 13:40 G	38037435.02	38037435.07	38037435.16	0.0090	0.0084
Mercury	99431-02-06 17:31 G	38037523.14	38037523.23	38037523.37	0.0090	0.0073
Mercury	99431-05-05 21:21 G	38037611.27	38037611.39	38037611.55	0.0090	0.0062
Mercury	99431-08-02 01:26 G	38037699.41	38037699.56	38037699.73	0.0090	0.0051
Mercury	99431-10-29 05:16 G	38037787.55	38037787.72	38037787.90	0.0090	0.0040
Mercury	99432-01-25 09:07 G	38037875.70	38037875.88	38037876.07	0.0090	0.0029
Mercury	99432-04-22 12:57 G	38037963.85	38037964.04	38037964.24	0.0090	0.0018
Mercury	99432-07-19 16:47 G	38038052.01	38038052.20	38038052.40	0.0090	0.0007
Mercury	99432-10-15 20:38 G	38038140.17	38038140.36	38038140.56	0.0090	0.0005
Mercury	99433-01-12 00:28 G	38038228.33	38038228.52	38038228.72	0.0090	0.0015
Mercury	99433-04-10 04:04 G	38038316.49	38038316.67	38038316.87	0.0090	0.0027

Mercury	99433-07-07 07:55 G	38038404.66	38038404.83	38038405.02	0.0090	0.0038
Mercury	99433-10-03 11:31 G	38038492.83	38038492.98	38038493.16	0.0090	0.0049
Mercury	99433-12-30 15:21 G	38038581.01	38038581.14	38038581.30	0.0090	0.0060
Mercury	99434-03-28 19:26 G	38038669.20	38038669.31	38038669.44	0.0090	0.0070
Mercury	99434-06-24 23:16 G	38038757.39	38038757.47	38038757.56	0.0090	0.0081
Venus	99457-02-14 17:45 G	38047028.21	38047028.24	38047028.30	0.0090	0.0087
Venus	99457-09-28 05:59 G	38047253.67	38047253.75	38047253.89	0.0090	0.0077
Venus	99458-05-11 18:43 G	38047479.15	38047479.28	38047479.44	0.0090	0.0066
Moon	99458-09-27 18:14 G	38047618.14	38047618.26	38047618.40	0.0090	0.0078
Earth	99458-09-27 17:31 G	38047618.16	38047618.23	38047618.35	0.0090	0.0083 *
Venus	99458-12-23 07:40 G	38047704.65	38047704.82	38047704.99	0.0090	0.0055
Venus	99459-08-05 19:55 G	38047930.16	38047930.33	38047930.54	0.0090	0.0045
Earth	99459-09-30 04:47 G	38047985.54	38047985.70	38047985.89	0.0090	0.0064
Moon	99459-09-30 05:02 G	38047985.58	38047985.71	38047985.89	0.0090	0.0069 *
Venus	99460-03-18 08:38 G	38048155.67	38048155.86	38048156.07	0.0090	0.0034
Moon	99460-10-01 13:40 G	38048352.85	38048353.07	38048353.32	0.0089	0.0040
Earth	99460-10-01 16:04 G	38048352.96	38048353.17	38048353.40	0.0089	0.0045 *
Venus	99460-10-29 21:35 G	38048381.19	38048381.40	38048381.61	0.0089	0.0023
Venus	99461-06-12 10:04 G	38048606.71	38048606.92	38048607.14	0.0089	0.0012
Earth	99461-10-04 03:07 G	38048720.40	38048720.63	38048720.88	0.0089	0.0026
Moon	99461-10-04 05:45 G	38048720.52	38048720.74	38048720.99	0.0089	0.0031 *
Venus	99462-01-23 22:47 G	38048832.23	38048832.45	38048832.67	0.0089	0.0001
Venus	99462-09-06 11:31 G	38049057.76	38049057.98	38049058.19	0.0089	0.0010
Moon	99462-10-06 11:16 G	38049087.71	38049087.97	38049088.22	0.0089	0.0002
Earth	99462-10-06 14:23 G	38049087.85	38049088.10	38049088.36	0.0089	0.0007 *
Venus	99463-04-19 23:59 G	38049283.29	38049283.50	38049283.71	0.0089	0.0020
Earth	99463-10-09 01:40 G	38049455.32	38049455.57	38049455.82	0.0089	0.0013
Moon	99463-10-09 05:16 G	38049455.47	38049455.72	38049455.97	0.0089	0.0008 *
Venus	99463-12-01 12:28 G	38049508.83	38049509.02	38049509.23	0.0089	0.0031
Venus	99464-07-14 01:26 G	38049734.37	38049734.56	38049734.75	0.0089	0.0042

Moon	99464-10-10 09:21 G	38049822.68	38049822.89	38049823.13	0.0089	0.0037
Earth	99464-10-10 12:43 G	38049822.79	38049823.03	38049823.27	0.0089	0.0032 *
Venus	99465-02-24 13:55 G	38049959.91	38049960.08	38049960.26	0.0089	0.0053
Venus	99465-10-08 02:09 G	38050185.46	38050185.59	38050185.76	0.0089	0.0064
Earth	99465-10-12 23:02 G	38050190.28	38050190.46	38050190.69	0.0089	0.0052
Moon	99465-10-13 01:55 G	38050190.38	38050190.58	38050190.82	0.0089	0.0047 *
Venus	99466-05-21 15:07 G	38050411.02	38050411.13	38050411.26	0.0089	0.0074
Moon	99466-10-15 09:21 G	38050557.76	38050557.89	38050558.03	0.0089	0.0075
Earth	99466-10-15 10:33 G	38050557.79	38050557.94	38050558.10	0.0089	0.0070 *
Venus	99467-01-02 03:21 G	38050636.59	38050636.64	38050636.73	0.0089	0.0085
Moon	99467-10-17 20:38 G	38050925.31	38050925.36	38050925.48	0.0089	0.0085
Earth	99467-10-17 21:07 G	38050925.36	38050925.38	38050925.42	0.0089	0.0089 *
Mars	99498-09-08 03:50 G	38062208.34	38062208.66	38062208.98	0.0088	0.0006
Mercury	99511-08-31 14:09 G	38066948.05	38066948.09	38066948.15	0.0088	0.0081
Mercury	99511-11-27 15:35 G	38067036.08	38067036.15	38067036.22	0.0088	0.0074
Mercury	99512-02-23 16:47 G	38067124.12	38067124.20	38067124.29	0.0088	0.0067
Mercury	99512-05-21 17:45 G	38067212.16	38067212.24	38067212.35	0.0088	0.0061
Mercury	99512-08-17 19:11 G	38067300.20	38067300.30	38067300.41	0.0088	0.0054
Mercury	99512-11-13 20:23 G	38067388.25	38067388.35	38067388.47	0.0088	0.0047
Mercury	99513-02-09 21:35 G	38067476.29	38067476.40	38067476.53	0.0088	0.0040
Mercury	99513-05-08 23:02 G	38067564.34	38067564.46	38067564.59	0.0088	0.0033
Mercury	99513-08-05 00:14 G	38067652.39	38067652.51	38067652.64	0.0088	0.0026
Mercury	99513-11-01 01:40 G	38067740.44	38067740.57	38067740.70	0.0088	0.0019
Mercury	99514-01-28 02:52 G	38067828.49	38067828.62	38067828.75	0.0088	0.0012
Mercury	99514-04-26 04:04 G	38067916.54	38067916.67	38067916.80	0.0088	0.0005
Mercury	99514-07-23 05:16 G	38068004.59	38068004.72	38068004.85	0.0088	0.0002
Mercury	99514-10-19 06:28 G	38068092.64	38068092.77	38068092.91	0.0088	0.0009
Mercury	99515-01-15 07:40 G	38068180.70	38068180.82	38068180.96	0.0088	0.0016
Mercury	99515-04-13 08:52 G	38068268.75	38068268.87	38068269.01	0.0088	0.0023
Mercury	99515-07-10 10:19 G	38068356.81	38068356.93	38068357.05	0.0088	0.0030

Mercury	99515-10-06 11:16 G	38068444.86	38068444.97	38068445.10	0.0088	0.0037
Mercury	99516-01-02 12:28 G	38068532.92	38068533.02	38068533.15	0.0088	0.0044
Mercury	99516-03-30 13:55 G	38068620.98	38068621.08	38068621.19	0.0088	0.0050
Mercury	99516-06-26 15:21 G	38068709.04	38068709.14	38068709.24	0.0088	0.0057
Mercury	99516-09-22 16:33 G	38068797.10	38068797.19	38068797.28	0.0088	0.0064
Mercury	99516-12-19 17:45 G	38068885.17	38068885.24	38068885.32	0.0088	0.0071
Mercury	99517-03-17 18:57 G	38068973.24	38068973.29	38068973.35	0.0088	0.0078
Mercury	99517-06-13 20:09 G	38069061.32	38069061.34	38069061.38	0.0088	0.0085
Venus	99540-06-28 05:31 G	38077476.65	38077476.73	38077476.84	0.0088	0.0079
Venus	99541-02-08 18:57 G	38077702.17	38077702.29	38077702.45	0.0088	0.0069
Moon	99541-03-29 02:23 G	38077750.58	38077750.60	38077750.63	0.0088	0.0087
Venus	99541-09-22 08:38 G	38077927.70	38077927.86	38077928.03	0.0088	0.0058
Moon	99542-03-31 08:23 G	38078117.72	38078117.85	38078118.04	0.0088	0.0071
Earth	99542-03-31 12:14 G	38078117.86	38078118.01	38078118.18	0.0088	0.0070 *
Venus	99542-05-05 21:50 G	38078153.24	38078153.41	38078153.61	0.0088	0.0048
Venus	99542-12-17 11:31 G	38078378.78	38078378.98	38078379.19	0.0088	0.0037
Earth	99543-04-02 23:59 G	38078485.31	38078485.50	38078485.74	0.0088	0.0052
Moon	99543-04-03 03:21 G	38078485.45	38078485.64	38078485.88	0.0088	0.0050 *
Venus	99543-07-31 00:43 G	38078604.33	38078604.53	38078604.76	0.0088	0.0027
Venus	99544-03-12 14:23 G	38078829.88	38078830.10	38078830.33	0.0088	0.0016
Moon	99544-04-04 08:38 G	38078852.64	38078852.86	38078853.12	0.0088	0.0035
Earth	99544-04-04 12:43 G	38078852.80	38078853.03	38078853.28	0.0088	0.0033 *
Venus	99544-10-24 03:50 G	38079055.44	38079055.66	38079055.89	0.0088	0.0005
Earth	99545-04-07 00:57 G	38079220.29	38079220.54	38079220.80	0.0088	0.0014
Moon	99545-04-07 03:50 G	38079220.41	38079220.66	38079220.93	0.0088	0.0013 *
Venus	99545-06-06 17:16 G	38079281.00	38079281.22	38079281.44	0.0088	0.0005
Venus	99546-01-18 06:43 G	38079506.56	38079506.78	38079507.00	0.0088	0.0016
Moon	99546-04-09 10:33 G	38079587.69	38079587.94	38079588.20	0.0088	0.0002
Earth	99546-04-09 13:11 G	38079587.79	38079588.05	38079588.31	0.0088	0.0004 *
Venus	99546-08-31 20:09 G	38079732.13	38079732.34	38079732.55	0.0088	0.0026

Earth	99547-04-12 01:11 G	38079955.31	38079955.55	38079955.82	0.0088	0.0023
Moon	99547-04-12 02:38 G	38079955.37	38079955.61	38079955.88	0.0088	0.0025 *
Venus	99547-04-14 09:07 G	38079957.69	38079957.88	38079958.10	0.0088	0.0037
Venus	99547-11-25 22:19 G	38080183.26	38080183.43	38080183.64	0.0088	0.0048
Earth	99548-04-13 13:55 G	38080322.85	38080323.08	38080323.31	0.0088	0.0041
Moon	99548-04-13 13:40 G	38080322.86	38080323.07	38080323.31	0.0088	0.0040 *
Venus	99548-07-08 11:59 G	38080408.84	38080409.00	38080409.18	0.0088	0.0058
Venus	99549-02-19 01:11 G	38080634.44	38080634.55	38080634.71	0.0088	0.0069
Moon	99549-04-16 01:11 G	38080690.37	38080690.55	38080690.75	0.0088	0.0062
Earth	99549-04-16 01:40 G	38080690.40	38080690.57	38080690.78	0.0088	0.0060 *
Venus	99549-10-02 14:52 G	38080860.04	38080860.12	38080860.23	0.0088	0.0079
Earth	99550-04-18 13:55 G	38081057.99	38081058.08	38081058.22	0.0088	0.0079
Moon	99550-04-18 16:33 G	38081058.08	38081058.19	38081058.33	0.0088	0.0076 *
Jupiter	99565-03-20 12:57 G	38086507.51	38086508.04	38086508.59	0.0089	0.0021
Mars	99580-08-14 02:23 G	38092133.43	38092133.60	38092133.79	0.0089	0.0073
Mars	99582-07-09 15:07 G	38092827.85	38092828.13	38092828.43	0.0089	0.0031
Mercury	99595-05-12 08:38 G	38097517.86	38097517.86	38097517.91	0.0090	0.0089
Mercury	99595-08-08 12:43 G	38097605.95	38097606.03	38097606.14	0.0090	0.0078
Mercury	99595-11-04 16:33 G	38097694.07	38097694.19	38097694.33	0.0090	0.0067
Mercury	99596-01-31 20:23 G	38097782.21	38097782.35	38097782.51	0.0090	0.0056
Mercury	99596-04-29 00:14 G	38097870.35	38097870.51	38097870.69	0.0090	0.0045
Mercury	99596-07-26 04:04 G	38097958.50	38097958.67	38097958.86	0.0090	0.0034
Mercury	99596-10-22 08:09 G	38098046.65	38098046.84	38098047.03	0.0090	0.0023
Mercury	99597-01-18 11:59 G	38098134.80	38098135.00	38098135.19	0.0090	0.0012
Mercury	99597-04-16 15:50 G	38098222.96	38098223.16	38098223.35	0.0090	0.0002
Mercury	99597-07-13 19:26 G	38098311.12	38098311.31	38098311.51	0.0090	0.0010
Mercury	99597-10-09 23:16 G	38098399.28	38098399.47	38098399.67	0.0090	0.0021
Mercury	99598-01-06 03:07 G	38098487.45	38098487.63	38098487.82	0.0090	0.0032
Mercury	99598-04-04 06:57 G	38098575.62	38098575.79	38098575.96	0.0090	0.0043
Mercury	99598-07-01 10:33 G	38098663.79	38098663.94	38098664.11	0.0090	0.0054

Mercury	99598-09-27 14:23 G	38098751.97	38098752.10	38098752.24	0.0090	0.0065
Mercury	99598-12-24 17:59 G	38098840.16	38098840.25	38098840.37	0.0090	0.0076
Mercury	99599-03-22 21:50 G	38098928.38	38098928.41	38098928.47	0.0090	0.0087
Venus	99621-05-20 05:31 G	38107022.73	38107022.73	38107022.76	0.0090	0.0090
Venus	99621-12-31 18:14 G	38107248.17	38107248.26	38107248.37	0.0090	0.0079
Venus	99622-08-14 06:28 G	38107473.66	38107473.77	38107473.93	0.0090	0.0069
Earth	99622-09-28 04:04 G	38107518.65	38107518.67	38107518.75	0.0090	0.0088
Moon	99622-09-28 05:45 G	38107518.70	38107518.74	38107518.83	0.0090	0.0087 *
Venus	99623-03-27 19:11 G	38107699.15	38107699.30	38107699.48	0.0090	0.0058
Moon	99623-09-30 12:57 G	38107885.90	38107886.04	38107886.23	0.0090	0.0070
Earth	99623-09-30 15:21 G	38107886.00	38107886.14	38107886.32	0.0090	0.0069 *
Venus	99623-11-08 07:55 G	38107924.65	38107924.83	38107925.02	0.0090	0.0047
Venus	99624-06-20 20:23 G	38108150.17	38108150.35	38108150.56	0.0090	0.0037
Earth	99624-10-02 02:38 G	38108253.41	38108253.61	38108253.83	0.0090	0.0050
Moon	99624-10-02 05:59 G	38108253.55	38108253.75	38108253.97	0.0090	0.0049 *
Venus	99625-02-01 09:07 G	38108375.68	38108375.88	38108376.10	0.0089	0.0026
Venus	99625-09-14 21:50 G	38108601.20	38108601.41	38108601.62	0.0089	0.0015
Moon	99625-10-04 10:04 G	38108620.70	38108620.92	38108621.18	0.0089	0.0033
Earth	99625-10-04 13:40 G	38108620.85	38108621.07	38108621.32	0.0089	0.0031 *
Venus	99626-04-28 10:19 G	38108826.72	38108826.93	38108827.15	0.0089	0.0004
Earth	99626-10-07 00:57 G	38108988.29	38108988.54	38108988.80	0.0089	0.0012
Moon	99626-10-07 04:19 G	38108988.43	38108988.68	38108988.94	0.0089	0.0012 *
Venus	99626-12-09 23:02 G	38109052.24	38109052.46	38109052.67	0.0089	0.0007
Venus	99627-07-23 11:45 G	38109277.78	38109277.99	38109278.20	0.0089	0.0018
Moon	99627-10-09 09:07 G	38109355.63	38109355.88	38109356.13	0.0089	0.0007
Earth	99627-10-09 11:59 G	38109355.75	38109356.00	38109356.26	0.0089	0.0008 *
Venus	99628-03-05 00:14 G	38109503.31	38109503.51	38109503.72	0.0089	0.0029
Earth	99628-10-10 23:16 G	38109723.23	38109723.47	38109723.71	0.0089	0.0027
Moon	99628-10-11 00:43 G	38109723.29	38109723.53	38109723.79	0.0089	0.0027 *
Venus	99628-10-16 12:43 G	38109728.85	38109729.03	38109729.24	0.0089	0.0040

Venus	99629-05-30 01:40 G	38109954.39	38109954.57	38109954.75	0.0089	0.0050
Moon	99629-10-13 08:52 G	38110090.68	38110090.87	38110091.10	0.0089	0.0047
Earth	99629-10-13 10:33 G	38110090.72	38110090.94	38110091.15	0.0089	0.0046 *
Venus	99630-01-10 14:09 G	38110179.94	38110180.09	38110180.26	0.0089	0.0061
Venus	99630-08-24 02:38 G	38110405.50	38110405.61	38110405.76	0.0089	0.0072
Moon	99630-10-15 20:23 G	38110458.19	38110458.35	38110458.55	0.0089	0.0065
Earth	99630-10-15 21:21 G	38110458.22	38110458.39	38110458.57	0.0089	0.0065 *
Venus	99631-04-06 15:35 G	38110631.07	38110631.15	38110631.24	0.0089	0.0082
Earth	99631-10-18 08:09 G	38110825.77	38110825.84	38110825.94	0.0089	0.0084
Moon	99631-10-18 09:50 G	38110825.84	38110825.91	38110826.02	0.0089	0.0083 *
Mars	99662-04-23 16:33 G	38121970.93	38121971.19	38121971.49	0.0088	0.0041
Mars	99664-03-18 15:50 G	38122665.95	38122666.16	38122666.40	0.0088	0.0064
Mercury	99676-02-29 12:43 G	38127031.01	38127031.03	38127031.08	0.0088	0.0085
Mercury	99676-05-27 13:55 G	38127119.04	38127119.08	38127119.16	0.0088	0.0078
Mercury	99676-08-23 15:21 G	38127207.07	38127207.14	38127207.22	0.0088	0.0071
Mercury	99676-11-19 16:33 G	38127295.11	38127295.19	38127295.29	0.0088	0.0064
Mercury	99677-02-15 17:45 G	38127383.15	38127383.24	38127383.35	0.0088	0.0057
Mercury	99677-05-14 19:11 G	38127471.20	38127471.30	38127471.41	0.0088	0.0050
Mercury	99677-08-10 20:23 G	38127559.24	38127559.35	38127559.47	0.0088	0.0043
Mercury	99677-11-06 21:50 G	38127647.29	38127647.41	38127647.53	0.0088	0.0036
Mercury	99678-02-02 23:02 G	38127735.33	38127735.46	38127735.58	0.0088	0.0029
Mercury	99678-05-02 00:14 G	38127823.38	38127823.51	38127823.64	0.0088	0.0022
Mercury	99678-07-29 01:26 G	38127911.43	38127911.56	38127911.69	0.0088	0.0015
Mercury	99678-10-25 02:38 G	38127999.48	38127999.61	38127999.75	0.0088	0.0009
Mercury	99679-01-21 03:50 G	38128087.53	38128087.66	38128087.80	0.0088	0.0004
Mercury	99679-04-19 05:16 G	38128175.59	38128175.72	38128175.85	0.0088	0.0006
Mercury	99679-07-16 06:28 G	38128263.64	38128263.77	38128263.90	0.0088	0.0012
Mercury	99679-10-12 07:40 G	38128351.69	38128351.82	38128351.95	0.0088	0.0019
Mercury	99680-01-08 08:52 G	38128439.75	38128439.87	38128440.00	0.0088	0.0026
Mercury	99680-04-05 10:04 G	38128527.80	38128527.92	38128528.05	0.0088	0.0033

Mercury	99680-07-02 11:16 G	38128615.86	38128615.97	38128616.09	0.0088	0.0040
Mercury	99680-09-28 12:28 G	38128703.92	38128704.02	38128704.14	0.0088	0.0047
Mercury	99680-12-25 13:40 G	38128791.98	38128792.07	38128792.19	0.0088	0.0054
Mercury	99681-03-23 14:52 G	38128880.04	38128880.12	38128880.23	0.0088	0.0061
Mercury	99681-06-19 16:19 G	38128968.10	38128968.18	38128968.27	0.0088	0.0068
Mercury	99681-09-15 17:31 G	38129056.17	38129056.23	38129056.31	0.0088	0.0075
Mercury	99681-12-12 18:57 G	38129144.25	38129144.29	38129144.34	0.0088	0.0081
Venus	99704-09-30 15:35 G	38137471.09	38137471.15	38137471.26	0.0088	0.0082
Venus	99705-05-14 05:16 G	38137696.61	38137696.72	38137696.87	0.0088	0.0071
Venus	99705-12-25 18:43 G	38137922.14	38137922.28	38137922.46	0.0088	0.0061
Earth	99706-03-31 21:07 G	38138018.27	38138018.38	38138018.53	0.0088	0.0075
Moon	99706-04-01 00:43 G	38138018.45	38138018.53	38138018.66	0.0088	0.0080 *
Venus	99706-08-08 08:23 G	38138147.68	38138147.85	38138148.05	0.0088	0.0050
Venus	99707-03-21 21:50 G	38138373.23	38138373.41	38138373.63	0.0088	0.0040
Moon	99707-04-03 06:28 G	38138385.58	38138385.77	38138385.99	0.0088	0.0052
Earth	99707-04-03 09:21 G	38138385.72	38138385.89	38138386.12	0.0088	0.0057 *
Venus	99707-11-02 11:31 G	38138598.77	38138598.98	38138599.20	0.0088	0.0029
Earth	99708-04-04 21:50 G	38138753.19	38138753.41	38138753.66	0.0088	0.0038
Moon	99708-04-05 00:43 G	38138753.32	38138753.53	38138753.79	0.0088	0.0043 *
Venus	99708-06-15 01:11 G	38138824.33	38138824.55	38138824.77	0.0088	0.0018
Venus	99709-01-26 14:38 G	38139049.89	38139050.11	38139050.34	0.0088	0.0008
Moon	99709-04-07 08:52 G	38139120.63	38139120.87	38139121.13	0.0088	0.0015
Earth	99709-04-07 10:33 G	38139120.68	38139120.94	38139121.19	0.0088	0.0019 *
Venus	99709-09-09 04:04 G	38139275.45	38139275.67	38139275.90	0.0088	0.0003
Earth	99710-04-09 22:47 G	38139488.19	38139488.45	38139488.71	0.0088	0.0000
Moon	99710-04-09 23:16 G	38139488.21	38139488.47	38139488.75	0.0088	0.0005 *
Venus	99710-04-22 17:16 G	38139501.01	38139501.22	38139501.45	0.0088	0.0014
Venus	99710-12-04 06:43 G	38139726.57	38139726.78	38139727.00	0.0088	0.0024
Earth	99711-04-12 11:02 G	38139855.71	38139855.96	38139856.22	0.0088	0.0018
Moon	99711-04-12 11:16 G	38139855.74	38139855.97	38139856.23	0.0088	0.0023 *



Venus	99711-07-17 19:55 G	38139952.14	38139952.33	38139952.55	0.0088	0.0035
Venus	99712-02-28 09:35 G	38140177.71	38140177.90	38140178.10	0.0088	0.0045
Moon	99712-04-13 20:52 G	38140223.13	38140223.37	38140223.63	0.0088	0.0032
Earth	99712-04-13 23:02 G	38140223.23	38140223.46	38140223.71	0.0088	0.0037 *
Venus	99712-10-10 22:33 G	38140403.29	38140403.44	38140403.63	0.0088	0.0056
Earth	99713-04-16 11:31 G	38140590.78	38140590.98	38140591.19	0.0088	0.0055
Moon	99713-04-16 13:40 G	38140590.90	38140591.07	38140591.28	0.0088	0.0060 *
Venus	99713-05-24 12:14 G	38140628.87	38140629.01	38140629.16	0.0088	0.0066
Venus	99714-01-05 01:11 G	38140854.47	38140854.55	38140854.69	0.0088	0.0077
Moon	99714-04-18 20:09 G	38140958.19	38140958.34	38140958.51	0.0088	0.0069
Earth	99714-04-18 23:31 G	38140958.36	38140958.48	38140958.64	0.0088	0.0074 *
Venus	99714-08-18 14:52 G	38141080.11	38141080.12	38141080.16	0.0088	0.0087
Mars	99746-02-22 14:38 G	38152590.81	38152591.11	38152591.42	0.0089	0.0004
Mercury	99760-02-07 07:11 G	38157688.76	38157688.80	38157688.90	0.0090	0.0084
Mercury	99760-05-05 11:16 G	38157776.87	38157776.97	38157777.10	0.0090	0.0073
Mercury	99760-08-01 15:07 G	38157865.00	38157865.13	38157865.29	0.0090	0.0062
Mercury	99760-10-28 18:57 G	38157953.14	38157953.29	38157953.47	0.0090	0.0051
Mercury	99761-01-24 22:47 G	38158041.29	38158041.45	38158041.64	0.0090	0.0040
Mercury	99761-04-23 02:38 G	38158129.44	38158129.61	38158129.81	0.0090	0.0029
Mercury	99761-07-20 06:43 G	38158217.59	38158217.78	38158217.98	0.0090	0.0018
Mercury	99761-10-16 10:33 G	38158305.74	38158305.94	38158306.14	0.0090	0.0007
Mercury	99762-01-12 14:23 G	38158393.90	38158394.10	38158394.30	0.0090	0.0004
Mercury	99762-04-10 17:59 G	38158482.06	38158482.25	38158482.45	0.0090	0.0016
Mercury	99762-07-07 21:50 G	38158570.23	38158570.41	38158570.61	0.0090	0.0026
Mercury	99762-10-04 01:26 G	38158658.40	38158658.56	38158658.76	0.0090	0.0038
Mercury	99762-12-31 05:31 G	38158746.57	38158746.73	38158746.90	0.0090	0.0048
Mercury	99763-03-29 09:21 G	38158834.75	38158834.89	38158835.04	0.0090	0.0059
Mercury	99763-06-25 12:57 G	38158922.93	38158923.04	38158923.17	0.0090	0.0070
Mercury	99763-09-21 16:47 G	38159011.13	38159011.20	38159011.29	0.0090	0.0081
Saturn	99773-12-19 03:50 G	38162752.09	38162752.66	38162753.33	0.0090	0.0037

Venus	99786-04-05 05:45 G	38167242.68	38167242.74	38167242.85	0.0090	0.0082
Venus	99786-11-16 18:28 G	38167468.16	38167468.27	38167468.42	0.0090	0.0071
Venus	99787-06-30 07:26 G	38167693.66	38167693.81	38167693.97	0.0090	0.0060
Earth	99787-10-01 02:09 G	38167786.47	38167786.59	38167786.75	0.0090	0.0074
Moon	99787-10-01 05:16 G	38167786.59	38167786.72	38167786.90	0.0090	0.0070 *
Venus	99788-02-10 19:40 G	38167919.16	38167919.32	38167919.52	0.0090	0.0050
Venus	99788-09-23 08:23 G	38168144.67	38168144.85	38168145.05	0.0090	0.0039
Moon	99788-10-02 09:35 G	38168153.73	38168153.90	38168154.11	0.0090	0.0060
Earth	99788-10-02 13:26 G	38168153.87	38168154.06	38168154.27	0.0090	0.0055 *
Venus	99789-05-06 21:07 G	38168370.18	38168370.38	38168370.59	0.0090	0.0028
Earth	99789-10-05 00:43 G	38168521.30	38168521.53	38168521.77	0.0090	0.0036
Moon	99789-10-05 03:21 G	38168521.42	38168521.64	38168521.90	0.0090	0.0032 *
Venus	99789-12-18 09:21 G	38168595.69	38168595.89	38168596.11	0.0090	0.0018
Venus	99790-07-31 22:19 G	38168821.22	38168821.43	38168821.65	0.0089	0.0006
Moon	99790-10-07 09:21 G	38168888.65	38168888.89	38168889.13	0.0089	0.0021
Earth	99790-10-07 11:31 G	38168888.74	38168888.98	38168889.24	0.0089	0.0017 *
Venus	99791-03-14 10:47 G	38169046.74	38169046.95	38169047.17	0.0089	0.0005
Earth	99791-10-09 22:33 G	38169256.19	38169256.44	38169256.70	0.0089	0.0003
Moon	99791-10-09 23:59 G	38169256.24	38169256.50	38169256.77	0.0089	0.0007 *
Venus	99791-10-25 23:16 G	38169272.26	38169272.47	38169272.69	0.0089	0.0015
Venus	99792-06-07 11:59 G	38169497.79	38169498.00	38169498.21	0.0089	0.0026
Earth	99792-10-11 09:35 G	38169623.66	38169623.90	38169624.15	0.0089	0.0022
Moon	99792-10-11 09:50 G	38169623.68	38169623.91	38169624.16	0.0089	0.0018 *
Venus	99793-01-19 00:28 G	38169723.33	38169723.52	38169723.72	0.0089	0.0037
Venus	99793-09-01 12:57 G	38169948.87	38169949.04	38169949.24	0.0089	0.0047
Moon	99793-10-13 19:26 G	38169991.09	38169991.31	38169991.54	0.0089	0.0045
Earth	99793-10-13 20:38 G	38169991.14	38169991.36	38169991.59	0.0089	0.0041 *
Venus	99794-04-15 01:26 G	38170174.41	38170174.56	38170174.74	0.0089	0.0058
Earth	99794-10-16 07:40 G	38170358.64	38170358.82	38170359.01	0.0089	0.0060
Moon	99794-10-16 09:21 G	38170358.72	38170358.89	38170359.11	0.0089	0.0056 *

Venus	99794-11-26 14:09 G	38170399.97	38170400.09	38170400.24	0.0089	0.0069
Venus	99795-07-10 02:38 G	38170625.54	38170625.61	38170625.73	0.0089	0.0080
Moon	99795-10-18 14:52 G	38170726.05	38170726.12	38170726.24	0.0089	0.0083
Earth	99795-10-18 18:28 G	38170726.17	38170726.27	38170726.40	0.0089	0.0079 *
Mars	99825-12-08 07:26 G	38181733.65	38181733.81	38181734.00	0.0088	0.0073
Mars	99827-11-03 05:02 G	38182428.42	38182428.71	38182429.02	0.0088	0.0030
Mercury	99840-11-27 12:43 G	38187201.99	38187202.03	38187202.09	0.0088	0.0081
Mercury	99841-02-23 14:09 G	38187290.02	38187290.09	38187290.16	0.0088	0.0074
Mercury	99841-05-22 15:07 G	38187378.06	38187378.13	38187378.22	0.0088	0.0068
Mercury	99841-08-18 16:19 G	38187466.10	38187466.18	38187466.29	0.0088	0.0061
Mercury	99841-11-14 17:45 G	38187554.14	38187554.24	38187554.35	0.0088	0.0054
Mercury	99842-02-10 18:57 G	38187642.19	38187642.29	38187642.41	0.0088	0.0047
Mercury	99842-05-09 20:09 G	38187730.23	38187730.34	38187730.46	0.0088	0.0040
Mercury	99842-08-05 21:35 G	38187818.28	38187818.40	38187818.52	0.0088	0.0033
Mercury	99842-11-01 22:47 G	38187906.33	38187906.45	38187906.58	0.0088	0.0026
Mercury	99843-01-28 23:59 G	38187994.37	38187994.50	38187994.63	0.0088	0.0019
Mercury	99843-04-27 01:11 G	38188082.42	38188082.55	38188082.68	0.0088	0.0013
Mercury	99843-07-24 02:38 G	38188170.47	38188170.61	38188170.74	0.0088	0.0006
Mercury	99843-10-20 03:50 G	38188258.53	38188258.66	38188258.79	0.0088	0.0002
Mercury	99844-01-16 05:02 G	38188346.58	38188346.71	38188346.84	0.0088	0.0008
Mercury	99844-04-13 06:14 G	38188434.63	38188434.76	38188434.89	0.0088	0.0015
Mercury	99844-07-10 07:26 G	38188522.69	38188522.81	38188522.94	0.0088	0.0022
Mercury	99844-10-06 08:38 G	38188610.74	38188610.86	38188610.99	0.0088	0.0029
Mercury	99845-01-02 10:04 G	38188698.80	38188698.92	38188699.04	0.0088	0.0036
Mercury	99845-03-31 11:16 G	38188786.86	38188786.97	38188787.08	0.0088	0.0043
Mercury	99845-06-27 12:28 G	38188874.91	38188875.02	38188875.13	0.0088	0.0050
Mercury	99845-09-23 13:40 G	38188962.97	38188963.07	38188963.17	0.0088	0.0057
Mercury	99845-12-20 14:52 G	38189051.04	38189051.12	38189051.22	0.0088	0.0064
Mercury	99846-03-18 16:04 G	38189139.10	38189139.17	38189139.26	0.0088	0.0071
Mercury	99846-06-14 17:16 G	38189227.17	38189227.22	38189227.29	0.0088	0.0078

Mercury	99846-09-10 18:28 G	38189315.25	38189315.27	38189315.32	0.0088	0.0085
Venus	99869-01-03 01:55 G	38197465.53	38197465.58	38197465.66	0.0088	0.0084
Venus	99869-08-16 15:07 G	38197691.04	38197691.13	38197691.28	0.0088	0.0074
Venus	99870-03-30 05:02 G	38197916.56	38197916.71	38197916.87	0.0088	0.0063
Moon	99870-04-01 03:21 G	38197918.55	38197918.64	38197918.73	0.0088	0.0081
Earth	99870-04-01 05:59 G	38197918.65	38197918.75	38197918.86	0.0088	0.0080 *
Venus	99870-11-10 18:14 G	38198142.10	38198142.26	38198142.45	0.0088	0.0053
Earth	99871-04-03 17:59 G	38198286.08	38198286.25	38198286.45	0.0088	0.0062
Moon	99871-04-03 20:23 G	38198286.16	38198286.35	38198286.54	0.0088	0.0061 *
Venus	99871-06-24 07:55 G	38198367.64	38198367.83	38198368.03	0.0088	0.0042
Venus	99872-02-04 21:21 G	38198593.20	38198593.39	38198593.62	0.0088	0.0032
Moon	99872-04-05 05:16 G	38198653.51	38198653.72	38198653.95	0.0088	0.0043
Earth	99872-04-05 06:28 G	38198653.55	38198653.77	38198654.01	0.0088	0.0043 *
Venus	99872-09-17 11:02 G	38198818.75	38198818.96	38198819.19	0.0088	0.0021
Moon	99873-04-07 18:14 G	38199021.01	38199021.26	38199021.53	0.0088	0.0024
Earth	99873-04-07 18:43 G	38199021.04	38199021.28	38199021.55	0.0088	0.0025 *
Venus	99873-05-01 00:28 G	38199044.30	38199044.52	38199044.75	0.0088	0.0011
Venus	99873-12-12 14:09 G	38199269.86	38199270.09	38199270.31	0.0088	0.0001
Earth	99874-04-10 07:11 G	38199388.55	38199388.80	38199389.07	0.0088	0.0006
Moon	99874-04-10 08:52 G	38199388.62	38199388.87	38199389.13	0.0088	0.0006 *
Venus	99874-07-26 03:35 G	38199495.43	38199495.65	38199495.87	0.0088	0.0011
Venus	99875-03-08 16:47 G	38199720.99	38199721.20	38199721.43	0.0088	0.0022
Moon	99875-04-12 17:02 G	38199755.96	38199756.21	38199756.49	0.0088	0.0013
Earth	99875-04-12 19:40 G	38199756.06	38199756.32	38199756.58	0.0088	0.0013 *
Venus	99875-10-20 06:14 G	38199946.56	38199946.76	38199946.98	0.0088	0.0032
Earth	99876-04-14 07:40 G	38200123.59	38200123.82	38200124.08	0.0088	0.0032
Moon	99876-04-14 11:16 G	38200123.74	38200123.97	38200124.22	0.0088	0.0032 *
Venus	99876-06-01 19:26 G	38200172.13	38200172.31	38200172.53	0.0088	0.0043
Venus	99877-01-13 09:07 G	38200397.71	38200397.88	38200398.07	0.0088	0.0053
Moon	99877-04-16 16:19 G	38200490.99	38200491.18	38200491.42	0.0088	0.0051

Earth	99877-04-16 19:55 G	38200491.13	38200491.33	38200491.56	0.0088	0.0051	*
Venus	99877-08-26 22:19 G	38200623.30	38200623.43	38200623.60	0.0088	0.0064	
Venus	99878-04-09 11:45 G	38200848.89	38200848.99	38200849.12	0.0088	0.0074	
Earth	99878-04-19 08:23 G	38200858.70	38200858.85	38200859.02	0.0088	0.0069	
Moon	99878-04-19 11:45 G	38200858.86	38200858.99	38200859.17	0.0088	0.0071	*
Venus	99878-11-21 00:43 G	38201074.50	38201074.53	38201074.62	0.0088	0.0085	
Moon	99879-04-21 18:14 G	38201226.24	38201226.26	38201226.28	0.0088	0.0087	
Earth	99879-04-21 20:38 G	38201226.36	38201226.36	38201226.40	0.0088	0.0088	
Mars	99909-10-09 09:21 G	38212353.61	38212353.89	38212354.17	0.0089	0.0039	
Mars	99911-09-03 23:59 G	38213048.31	38213048.50	38213048.74	0.0089	0.0065	
Mercury	99924-08-09 02:09 G	38217771.59	38217771.59	38217771.62	0.0090	0.0089	
Mercury	99924-11-05 05:45 G	38217859.67	38217859.74	38217859.86	0.0090	0.0079	
Mercury	99925-02-01 09:35 G	38217947.80	38217947.90	38217948.05	0.0090	0.0068	
Mercury	99925-04-30 13:40 G	38218035.93	38218036.07	38218036.24	0.0090	0.0057	
Mercury	99925-07-27 17:31 G	38218124.08	38218124.23	38218124.41	0.0090	0.0046	
Mercury	99925-10-23 21:21 G	38218212.22	38218212.39	38218212.59	0.0090	0.0035	
Mercury	99926-01-20 01:26 G	38218300.37	38218300.56	38218300.75	0.0090	0.0023	
Mercury	99926-04-18 05:16 G	38218388.53	38218388.72	38218388.92	0.0090	0.0012	
Mercury	99926-07-15 09:07 G	38218476.69	38218476.88	38218477.08	0.0090	0.0002	
Mercury	99926-10-11 12:57 G	38218564.85	38218565.04	38218565.24	0.0090	0.0010	
Mercury	99927-01-07 16:47 G	38218653.01	38218653.20	38218653.39	0.0090	0.0021	
Mercury	99927-04-05 20:23 G	38218741.18	38218741.35	38218741.55	0.0090	0.0032	
Mercury	99927-07-03 00:14 G	38218829.35	38218829.51	38218829.69	0.0090	0.0043	
Mercury	99927-09-29 03:50 G	38218917.52	38218917.66	38218917.84	0.0090	0.0054	
Mercury	99927-12-26 07:40 G	38219005.70	38219005.82	38219005.97	0.0090	0.0065	
Mercury	99928-03-23 11:59 G	38219093.89	38219094.00	38219094.10	0.0090	0.0075	
Mercury	99928-06-19 15:35 G	38219182.10	38219182.15	38219182.21	0.0090	0.0086	
Venus	99950-07-09 17:31 G	38227237.17	38227237.23	38227237.32	0.0090	0.0084	
Venus	99951-02-20 05:59 G	38227462.65	38227462.75	38227462.89	0.0090	0.0074	
Moon	99951-10-02 09:07 G	38227686.77	38227686.88	38227687.03	0.0090	0.0077	

Earth	99951-10-02 12:14 G	38227686.92	38227687.01	38227687.15	0.0090	0.0080	*
Venus	99951-10-03 18:43 G	38227688.14	38227688.28	38227688.45	0.0090	0.0063	
Venus	99952-05-16 07:26 G	38227913.64	38227913.81	38227913.99	0.0090	0.0052	
Earth	99952-10-03 23:16 G	38228054.31	38228054.47	38228054.69	0.0090	0.0061	
Moon	99952-10-04 02:23 G	38228054.44	38228054.60	38228054.81	0.0090	0.0063	*
Venus	99952-12-27 19:40 G	38228139.15	38228139.32	38228139.53	0.0090	0.0042	
Venus	99953-08-10 08:38 G	38228364.66	38228364.86	38228365.07	0.0090	0.0031	
Moon	99953-10-06 09:07 G	38228421.67	38228421.88	38228422.12	0.0090	0.0039	
Earth	99953-10-06 10:33 G	38228421.73	38228421.94	38228422.19	0.0090	0.0042	*
Venus	99954-03-23 21:21 G	38228590.18	38228590.39	38228590.60	0.0090	0.0020	
Earth	99954-10-08 22:04 G	38228789.17	38228789.42	38228789.67	0.0089	0.0022	
Moon	99954-10-08 22:19 G	38228789.19	38228789.43	38228789.69	0.0089	0.0024	*
Venus	99954-11-04 09:50 G	38228815.70	38228815.91	38228816.13	0.0089	0.0009	
Venus	99955-06-17 22:33 G	38229041.22	38229041.44	38229041.65	0.0089	0.0002	
Earth	99955-10-11 09:07 G	38229156.63	38229156.88	38229157.14	0.0089	0.0003	
Moon	99955-10-11 09:35 G	38229156.65	38229156.90	38229157.15	0.0089	0.0001	*
Venus	99956-01-29 11:02 G	38229266.75	38229266.96	38229267.17	0.0089	0.0012	
Venus	99956-09-10 23:31 G	38229492.28	38229492.48	38229492.69	0.0089	0.0023	
Moon	99956-10-12 17:45 G	38229523.99	38229524.24	38229524.51	0.0089	0.0014	
Earth	99956-10-12 20:09 G	38229524.09	38229524.34	38229524.59	0.0089	0.0016	*
Venus	99957-04-24 11:45 G	38229717.81	38229717.99	38229718.21	0.0089	0.0035	
Earth	99957-10-15 06:57 G	38229891.57	38229891.79	38229892.03	0.0089	0.0036	
Moon	99957-10-15 09:50 G	38229891.69	38229891.91	38229892.14	0.0089	0.0038	*
Venus	99957-12-06 00:28 G	38229943.34	38229943.52	38229943.72	0.0089	0.0045	
Venus	99958-07-19 12:57 G	38230168.89	38230169.04	38230169.23	0.0089	0.0056	
Moon	99958-10-17 14:23 G	38230258.91	38230259.10	38230259.32	0.0089	0.0053	
Earth	99958-10-17 17:45 G	38230259.06	38230259.24	38230259.46	0.0089	0.0055	*
Venus	99959-03-02 01:26 G	38230394.44	38230394.56	38230394.73	0.0089	0.0067	
Venus	99959-10-13 14:23 G	38230620.00	38230620.10	38230620.22	0.0089	0.0077	
Earth	99959-10-20 04:47 G	38230626.57	38230626.70	38230626.86	0.0089	0.0074	

Moon	99959-10-20 08:09 G	38230626.73	38230626.84	38230627.00	0.0089	0.0076	*
Venus	99960-05-26 02:38 G	38230845.59	38230845.61	38230845.68	0.0089	0.0088	
Jupiter	99974-03-29 22:19 G	38235901.16	38235901.43	38235901.77	0.0089	0.0072	
Mars	99991-06-18 17:59 G	38242190.94	38242191.25	38242191.57	0.0088	0.0004	

# 101ST MILLENNIUM CE

This is a list of transits visible from Neptune in the 101st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	100005-05-29 11:16 G		38247284.95	38247284.97	38247285.01	0.0088	0.0085	
Mercury	100005-08-25 12:28 G		38247372.97	38247373.02	38247373.09	0.0088	0.0078	
Mercury	100005-11-21 13:55 G		38247461.01	38247461.08	38247461.16	0.0088	0.0071	
Mercury	100006-02-17 15:07 G		38247549.05	38247549.13	38247549.22	0.0088	0.0064	
Mercury	100006-05-16 16:04 G		38247637.09	38247637.17	38247637.28	0.0088	0.0058	
Mercury	100006-08-12 17:31 G		38247725.13	38247725.23	38247725.34	0.0088	0.0051	
Mercury	100006-11-08 18:43 G		38247813.18	38247813.28	38247813.40	0.0088	0.0044	
Mercury	100007-02-04 20:09 G		38247901.22	38247901.34	38247901.46	0.0088	0.0037	
Mercury	100007-05-03 21:21 G		38247989.27	38247989.39	38247989.52	0.0088	0.0030	
Mercury	100007-07-30 22:33 G		38248077.32	38248077.44	38248077.57	0.0088	0.0023	
Mercury	100007-10-26 23:45 G		38248165.36	38248165.49	38248165.62	0.0088	0.0016	
Mercury	100008-01-23 00:57 G		38248253.41	38248253.54	38248253.68	0.0088	0.0010	
Mercury	100008-04-20 02:23 G		38248341.47	38248341.60	38248341.73	0.0088	0.0003	
Mercury	100008-07-17 03:35 G		38248429.52	38248429.65	38248429.78	0.0088	0.0005	

Mercury	100008-10-13 04:47 G	38248517.57	38248517.70	38248517.83	0.0088	0.0011
Mercury	100009-01-09 05:59 G	38248605.62	38248605.75	38248605.88	0.0088	0.0018
Mercury	100009-04-07 07:11 G	38248693.68	38248693.80	38248693.93	0.0088	0.0025
Mercury	100009-07-04 08:23 G	38248781.73	38248781.85	38248781.98	0.0088	0.0032
Mercury	100009-09-30 09:35 G	38248869.79	38248869.90	38248870.03	0.0088	0.0039
Mercury	100009-12-27 10:47 G	38248957.85	38248957.95	38248958.07	0.0088	0.0046
Mercury	100010-03-25 11:59 G	38249045.91	38249046.00	38249046.12	0.0088	0.0053
Mercury	100010-06-21 13:26 G	38249133.97	38249134.06	38249134.16	0.0088	0.0060
Mercury	100010-09-17 14:38 G	38249222.03	38249222.11	38249222.20	0.0088	0.0066
Mercury	100010-12-14 15:35 G	38249310.10	38249310.15	38249310.24	0.0088	0.0074
Mercury	100011-03-12 17:16 G	38249398.17	38249398.22	38249398.27	0.0088	0.0080
Mercury	100011-06-08 18:28 G	38249486.26	38249486.27	38249486.29	0.0088	0.0087
Venus	100033-04-07 11:45 G	38257459.98	38257459.99	38257460.05	0.0088	0.0087
Venus	100033-11-19 01:26 G	38257685.46	38257685.56	38257685.68	0.0088	0.0076
Earth	100034-04-01 14:09 G	38257819.06	38257819.09	38257819.17	0.0088	0.0086
Moon	100034-04-01 15:35 G	38257819.07	38257819.15	38257819.27	0.0088	0.0081 *
Venus	100034-07-02 14:38 G	38257910.98	38257911.11	38257911.28	0.0088	0.0066
Venus	100035-02-13 04:33 G	38258136.52	38258136.69	38258136.87	0.0088	0.0055
Earth	100035-04-04 02:23 G	38258186.45	38258186.60	38258186.79	0.0088	0.0067
Moon	100035-04-04 02:52 G	38258186.48	38258186.62	38258186.78	0.0088	0.0071 *
Venus	100035-09-26 17:45 G	38258362.06	38258362.24	38258362.45	0.0088	0.0045
Moon	100036-04-05 13:55 G	38258553.85	38258554.08	38258554.32	0.0088	0.0044
Earth	100036-04-05 14:38 G	38258553.91	38258554.11	38258554.35	0.0088	0.0049 *
Venus	100036-05-09 07:26 G	38258587.61	38258587.81	38258588.02	0.0088	0.0034
Venus	100036-12-20 20:52 G	38258813.16	38258813.37	38258813.60	0.0088	0.0024
Earth	100037-04-08 02:52 G	38258921.39	38258921.62	38258921.89	0.0088	0.0030
Moon	100037-04-08 05:16 G	38258921.50	38258921.72	38258921.97	0.0088	0.0035 *
Venus	100037-08-03 10:33 G	38259038.72	38259038.94	38259039.16	0.0088	0.0013
Venus	100038-03-16 23:59 G	38259264.28	38259264.50	38259264.73	0.0088	0.0003
Moon	100038-04-10 12:14 G	38259288.75	38259289.01	38259289.29	0.0088	0.0007



Earth	100038-04-10 15:35 G	38259288.90	38259289.15	38259289.42	0.0088	0.0011	*
Venus	100038-10-28 13:26 G	38259489.84	38259490.06	38259490.29	0.0088	0.0008	
Earth	100039-04-13 03:50 G	38259656.41	38259656.66	38259656.93	0.0088	0.0008	
Moon	100039-04-13 07:26 G	38259656.55	38259656.81	38259657.07	0.0088	0.0003	*
Venus	100039-06-11 02:52 G	38259715.40	38259715.62	38259715.84	0.0088	0.0019	
Venus	100040-01-22 16:33 G	38259940.98	38259941.19	38259941.40	0.0088	0.0029	
Moon	100040-04-14 12:14 G	38260023.78	38260024.01	38260024.27	0.0088	0.0032	
Earth	100040-04-14 16:04 G	38260023.93	38260024.17	38260024.43	0.0088	0.0027	*
Venus	100040-09-04 05:45 G	38260166.55	38260166.74	38260166.95	0.0088	0.0040	
Earth	100041-04-17 04:04 G	38260391.47	38260391.67	38260391.92	0.0088	0.0046	
Moon	100041-04-17 07:26 G	38260391.59	38260391.81	38260392.06	0.0088	0.0041	*
Venus	100041-04-17 18:57 G	38260392.12	38260392.29	38260392.49	0.0088	0.0051	
Venus	100041-11-29 08:23 G	38260617.70	38260617.85	38260618.02	0.0088	0.0061	
Moon	100042-04-19 13:55 G	38260758.95	38260759.08	38260759.26	0.0088	0.0069	
Earth	100042-04-19 16:47 G	38260759.04	38260759.20	38260759.39	0.0088	0.0064	*
Venus	100042-07-12 22:04 G	38260843.29	38260843.42	38260843.55	0.0088	0.0071	
Venus	100043-02-23 11:16 G	38261068.91	38261068.97	38261069.07	0.0088	0.0082	
Earth	100043-04-22 04:33 G	38261126.63	38261126.69	38261126.80	0.0088	0.0083	
Moon	100043-04-22 05:59 G	38261126.65	38261126.75	38261126.90	0.0088	0.0078	*
Mars	100073-05-24 02:38 G	38272116.46	38272116.61	38272116.81	0.0089	0.0075	
Mars	100075-04-18 19:40 G	38272811.04	38272811.32	38272811.62	0.0089	0.0030	
Mercury	100089-05-06 00:28 G	38277942.47	38277942.52	38277942.59	0.0090	0.0085	
Mercury	100089-08-02 04:33 G	38278030.58	38278030.69	38278030.80	0.0090	0.0074	
Mercury	100089-10-29 08:23 G	38278118.71	38278118.85	38278118.99	0.0090	0.0063	
Mercury	100090-01-25 11:45 G	38278206.85	38278206.99	38278207.17	0.0090	0.0053	
Mercury	100090-04-23 15:35 G	38278294.99	38278295.15	38278295.34	0.0090	0.0042	
Mercury	100090-07-20 19:40 G	38278383.14	38278383.32	38278383.51	0.0090	0.0030	
Mercury	100090-10-16 23:31 G	38278471.30	38278471.48	38278471.68	0.0090	0.0020	
Mercury	100091-01-13 03:21 G	38278559.45	38278559.64	38278559.85	0.0090	0.0009	
Mercury	100091-04-11 07:26 G	38278647.61	38278647.81	38278648.01	0.0090	0.0003	

Mercury	100091-07-08 11:16 G	38278735.77	38278735.97	38278736.16	0.0090	0.0014
Mercury	100091-10-04 14:52 G	38278823.94	38278824.12	38278824.32	0.0090	0.0025
Mercury	100091-12-31 18:43 G	38278912.11	38278912.28	38278912.47	0.0090	0.0036
Mercury	100092-03-28 22:33 G	38279000.28	38279000.44	38279000.61	0.0090	0.0047
Mercury	100092-06-25 02:09 G	38279088.46	38279088.59	38279088.76	0.0090	0.0058
Mercury	100092-09-21 05:59 G	38279176.64	38279176.75	38279176.89	0.0090	0.0069
Mercury	100092-12-18 09:35 G	38279264.83	38279264.90	38279265.01	0.0090	0.0080
Venus	100114-10-12 04:33 G	38287231.65	38287231.69	38287231.76	0.0090	0.0087
Venus	100115-05-25 17:16 G	38287457.12	38287457.22	38287457.34	0.0090	0.0076
Earth	100115-10-02 21:35 G	38287587.35	38287587.40	38287587.51	0.0090	0.0086
Moon	100115-10-02 23:59 G	38287587.46	38287587.50	38287587.55	0.0090	0.0088 *
Venus	100116-01-06 05:45 G	38287682.61	38287682.74	38287682.90	0.0090	0.0066
Venus	100116-08-18 18:28 G	38287908.11	38287908.27	38287908.45	0.0090	0.0055
Moon	100116-10-04 08:09 G	38287954.68	38287954.84	38287955.02	0.0090	0.0063
Earth	100116-10-04 09:35 G	38287954.73	38287954.90	38287955.07	0.0090	0.0066 *
Venus	100117-04-01 07:26 G	38288133.62	38288133.81	38288134.00	0.0090	0.0044
Moon	100117-10-06 20:23 G	38288322.13	38288322.35	38288322.57	0.0090	0.0050
Earth	100117-10-06 20:23 G	38288322.15	38288322.35	38288322.58	0.0090	0.0047 *
Venus	100117-11-12 19:40 G	38288359.13	38288359.32	38288359.53	0.0090	0.0034
Venus	100118-06-26 08:23 G	38288584.65	38288584.85	38288585.07	0.0090	0.0023
Earth	100118-10-09 07:26 G	38288689.58	38288689.81	38288690.07	0.0090	0.0028
Moon	100118-10-09 09:21 G	38288689.66	38288689.89	38288690.13	0.0090	0.0025 *
Venus	100119-02-06 21:07 G	38288810.17	38288810.38	38288810.59	0.0090	0.0012
Venus	100119-09-20 09:35 G	38289035.69	38289035.90	38289036.12	0.0090	0.0002
Moon	100119-10-11 16:33 G	38289056.93	38289057.19	38289057.45	0.0090	0.0012
Earth	100119-10-11 18:43 G	38289057.04	38289057.28	38289057.54	0.0090	0.0009 *
Venus	100120-05-02 22:04 G	38289261.21	38289261.42	38289261.64	0.0089	0.0010
Earth	100120-10-13 05:45 G	38289424.49	38289424.74	38289425.00	0.0089	0.0011
Moon	100120-10-13 09:07 G	38289424.64	38289424.88	38289425.13	0.0089	0.0015 *
Venus	100120-12-14 10:33 G	38289486.74	38289486.94	38289487.16	0.0089	0.0021

Venus	100121-07-27 23:02 G	38289712.27	38289712.46	38289712.68	0.0089	0.0032
Moon	100121-10-15 13:26 G	38289791.82	38289792.06	38289792.30	0.0089	0.0027
Earth	100121-10-15 16:33 G	38289791.96	38289792.19	38289792.44	0.0089	0.0030 *
Venus	100122-03-10 11:45 G	38289937.81	38289937.99	38289938.19	0.0089	0.0042
Earth	100122-10-18 03:07 G	38290159.44	38290159.63	38290159.87	0.0089	0.0050
Moon	100122-10-18 06:43 G	38290159.60	38290159.78	38290160.00	0.0089	0.0054 *
Venus	100122-10-22 00:14 G	38290163.35	38290163.51	38290163.69	0.0089	0.0053
Venus	100123-06-04 12:28 G	38290388.89	38290389.02	38290389.19	0.0089	0.0064
Moon	100123-10-20 11:31 G	38290526.83	38290526.98	38290527.17	0.0089	0.0065
Earth	100123-10-20 14:09 G	38290526.95	38290527.09	38290527.28	0.0089	0.0069 *
Venus	100124-01-16 01:11 G	38290614.44	38290614.55	38290614.69	0.0089	0.0074
Venus	100124-08-28 13:40 G	38290840.02	38290840.07	38290840.16	0.0089	0.0085
Earth	100124-10-22 00:57 G	38290894.51	38290894.54	38290894.62	0.0089	0.0087
Jupiter	100140-05-20 19:11 G	38296583.87	38296584.30	38296584.78	0.0089	0.0045
Mars	100155-02-01 07:40 G	38301953.55	38301953.82	38301954.11	0.0088	0.0039
Mars	100156-12-27 02:38 G	38302648.43	38302648.61	38302648.87	0.0088	0.0064
Mercury	100170-02-24 11:02 G	38307455.92	38307455.96	38307456.01	0.0088	0.0082
Mercury	100170-05-23 12:14 G	38307543.95	38307544.01	38307544.09	0.0088	0.0075
Mercury	100170-08-19 13:40 G	38307631.99	38307632.07	38307632.15	0.0088	0.0068
Mercury	100170-11-15 14:52 G	38307720.03	38307720.12	38307720.22	0.0088	0.0061
Mercury	100171-02-11 15:50 G	38307808.07	38307808.16	38307808.28	0.0088	0.0055
Mercury	100171-05-10 17:16 G	38307896.12	38307896.22	38307896.34	0.0088	0.0048
Mercury	100171-08-06 18:28 G	38307984.16	38307984.27	38307984.39	0.0088	0.0041
Mercury	100171-11-02 19:55 G	38308072.21	38308072.33	38308072.45	0.0088	0.0034
Mercury	100172-01-29 21:07 G	38308160.26	38308160.38	38308160.51	0.0088	0.0027
Mercury	100172-04-26 22:19 G	38308248.30	38308248.43	38308248.56	0.0088	0.0020
Mercury	100172-07-23 23:31 G	38308336.35	38308336.48	38308336.61	0.0088	0.0013
Mercury	100172-10-20 00:43 G	38308424.40	38308424.53	38308424.67	0.0088	0.0007
Mercury	100173-01-16 02:09 G	38308512.45	38308512.59	38308512.72	0.0088	0.0002
Mercury	100173-04-14 03:21 G	38308600.51	38308600.64	38308600.77	0.0088	0.0007

Mercury	100173-07-11 04:33 G	38308688.56	38308688.69	38308688.82	0.0088	0.0014
Mercury	100173-10-07 05:45 G	38308776.61	38308776.74	38308776.87	0.0088	0.0021
Mercury	100174-01-03 06:57 G	38308864.67	38308864.79	38308864.92	0.0088	0.0028
Mercury	100174-04-01 08:09 G	38308952.73	38308952.84	38308952.97	0.0088	0.0035
Mercury	100174-06-28 09:21 G	38309040.78	38309040.89	38309041.01	0.0088	0.0042
Mercury	100174-09-24 10:33 G	38309128.84	38309128.94	38309129.06	0.0088	0.0049
Mercury	100174-12-21 11:45 G	38309216.90	38309216.99	38309217.10	0.0088	0.0056
Mercury	100175-03-19 12:57 G	38309304.96	38309305.04	38309305.15	0.0088	0.0063
Mercury	100175-06-15 14:09 G	38309393.03	38309393.09	38309393.18	0.0088	0.0070
Mercury	100175-09-11 15:35 G	38309481.09	38309481.15	38309481.22	0.0088	0.0076
Mercury	100175-12-08 16:47 G	38309569.17	38309569.20	38309569.25	0.0088	0.0083
Venus	100198-02-21 10:47 G	38317679.87	38317679.95	38317680.07	0.0088	0.0079
Venus	100198-10-05 00:14 G	38317905.39	38317905.51	38317905.67	0.0088	0.0069
Moon	100199-04-04 07:26 G	38318086.71	38318086.81	38318086.98	0.0088	0.0076
Earth	100199-04-04 10:04 G	38318086.80	38318086.92	38318087.09	0.0088	0.0073 *
Venus	100199-05-18 13:55 G	38318130.92	38318131.08	38318131.25	0.0088	0.0058
Venus	100199-12-30 03:07 G	38318356.46	38318356.63	38318356.84	0.0088	0.0048
Earth	100200-04-06 22:19 G	38318454.24	38318454.43	38318454.65	0.0088	0.0054
Moon	100200-04-07 01:11 G	38318454.35	38318454.55	38318454.76	0.0088	0.0052 *
Venus	100200-08-12 16:47 G	38318582.01	38318582.20	38318582.41	0.0088	0.0037
Venus	100201-03-26 06:14 G	38318807.56	38318807.76	38318807.98	0.0088	0.0027
Moon	100201-04-09 06:57 G	38318821.57	38318821.79	38318822.04	0.0088	0.0038
Earth	100201-04-09 11:02 G	38318821.72	38318821.96	38318822.20	0.0088	0.0035 *
Venus	100201-11-06 19:40 G	38319033.11	38319033.32	38319033.55	0.0088	0.0016
Earth	100202-04-11 23:02 G	38319189.21	38319189.46	38319189.72	0.0088	0.0017
Moon	100202-04-12 02:38 G	38319189.36	38319189.61	38319189.88	0.0088	0.0014 *
Venus	100202-06-20 09:21 G	38319258.67	38319258.89	38319259.11	0.0088	0.0005
Venus	100203-01-31 22:47 G	38319484.23	38319484.45	38319484.68	0.0088	0.0006
Moon	100203-04-14 08:09 G	38319556.58	38319556.84	38319557.10	0.0088	0.0001
Earth	100203-04-14 11:31 G	38319556.72	38319556.98	38319557.24	0.0088	0.0002 *

Venus	100203-09-14 12:14 G	38319709.80	38319710.01	38319710.24	0.0088	0.0016
Earth	100204-04-15 23:45 G	38319924.24	38319924.49	38319924.75	0.0088	0.0021
Moon	100204-04-16 02:23 G	38319924.36	38319924.60	38319924.88	0.0088	0.0023 *
Venus	100204-04-27 01:40 G	38319935.37	38319935.57	38319935.79	0.0088	0.0027
Venus	100204-12-08 15:07 G	38320160.94	38320161.13	38320161.34	0.0088	0.0037
Moon	100205-04-18 10:47 G	38320291.73	38320291.95	38320292.19	0.0088	0.0038
Earth	100205-04-18 11:59 G	38320291.78	38320292.00	38320292.25	0.0088	0.0040 *
Venus	100205-07-22 04:19 G	38320386.51	38320386.68	38320386.89	0.0088	0.0048
Venus	100206-03-04 18:14 G	38320612.10	38320612.26	38320612.44	0.0088	0.0058
Earth	100206-04-20 23:59 G	38320659.33	38320659.50	38320659.72	0.0088	0.0059
Moon	100206-04-21 00:43 G	38320659.36	38320659.53	38320659.76	0.0088	0.0060 *
Venus	100206-10-16 07:11 G	38320837.69	38320837.80	38320837.97	0.0088	0.0069
Earth	100207-04-23 12:14 G	38321026.92	38321027.01	38321027.17	0.0088	0.0078
Moon	100207-04-23 13:40 G	38321026.95	38321027.07	38321027.19	0.0088	0.0076 *
Venus	100207-05-29 20:52 G	38321063.29	38321063.37	38321063.48	0.0088	0.0079
Mars	100238-12-03 11:59 G	38332573.69	38332574.00	38332574.32	0.0089	0.0007
Mercury	100254-02-01 22:47 G	38338113.37	38338113.45	38338113.53	0.0090	0.0081
Mercury	100254-05-01 02:09 G	38338201.49	38338201.59	38338201.73	0.0090	0.0071
Mercury	100254-07-28 05:59 G	38338289.62	38338289.75	38338289.92	0.0090	0.0060
Mercury	100254-10-24 09:50 G	38338377.76	38338377.91	38338378.09	0.0090	0.0049
Mercury	100255-01-20 13:40 G	38338465.91	38338466.07	38338466.27	0.0090	0.0038
Mercury	100255-04-18 17:45 G	38338554.06	38338554.24	38338554.44	0.0090	0.0027
Mercury	100255-07-15 21:35 G	38338642.21	38338642.40	38338642.60	0.0090	0.0016
Mercury	100255-10-12 01:40 G	38338730.37	38338730.57	38338730.76	0.0090	0.0005
Mercury	100256-01-08 05:31 G	38338818.53	38338818.73	38338818.92	0.0090	0.0007
Mercury	100256-04-05 09:07 G	38338906.69	38338906.88	38338907.08	0.0090	0.0018
Mercury	100256-07-02 12:57 G	38338994.86	38338995.04	38338995.23	0.0090	0.0029
Mercury	100256-09-28 16:33 G	38339083.03	38339083.19	38339083.38	0.0090	0.0040
Mercury	100256-12-25 20:23 G	38339171.20	38339171.35	38339171.53	0.0090	0.0051
Mercury	100257-03-24 00:14 G	38339259.38	38339259.51	38339259.67	0.0090	0.0062

Mercury	100257-06-20 03:50 G	38339347.57	38339347.66	38339347.80	0.0090	0.0073
Mercury	100257-09-16 07:40 G	38339435.77	38339435.82	38339435.91	0.0090	0.0084
Venus	100279-01-14 15:21 G	38347226.14	38347226.14	38347226.17	0.0090	0.0090
Venus	100279-08-28 04:04 G	38347451.58	38347451.67	38347451.78	0.0090	0.0079
Venus	100280-04-09 16:19 G	38347677.07	38347677.18	38347677.34	0.0090	0.0069
Moon	100280-10-04 16:47 G	38347855.06	38347855.20	38347855.40	0.0090	0.0069
Earth	100280-10-04 17:45 G	38347855.12	38347855.24	38347855.42	0.0090	0.0073 *
Venus	100280-11-21 05:16 G	38347902.57	38347902.72	38347902.90	0.0090	0.0058
Venus	100281-07-04 17:59 G	38348128.08	38348128.25	38348128.45	0.0090	0.0047
Earth	100281-10-07 05:31 G	38348222.53	38348222.73	38348222.94	0.0090	0.0053
Moon	100281-10-07 07:40 G	38348222.64	38348222.82	38348223.02	0.0090	0.0057 *
Venus	100282-02-15 06:28 G	38348353.59	38348353.77	38348353.99	0.0090	0.0037
Venus	100282-09-28 19:11 G	38348579.11	38348579.30	38348579.52	0.0090	0.0026
Moon	100282-10-09 13:26 G	38348589.83	38348590.06	38348590.32	0.0090	0.0030
Earth	100282-10-09 16:47 G	38348589.98	38348590.20	38348590.45	0.0090	0.0034 *
Venus	100283-05-12 07:55 G	38348804.62	38348804.83	38348805.05	0.0090	0.0015
Earth	100283-10-12 04:04 G	38348957.43	38348957.67	38348957.93	0.0090	0.0014
Moon	100283-10-12 07:26 G	38348957.57	38348957.81	38348958.06	0.0090	0.0018 *
Venus	100283-12-23 20:38 G	38349030.14	38349030.36	38349030.58	0.0090	0.0004
Venus	100284-08-05 09:21 G	38349255.67	38349255.89	38349256.10	0.0089	0.0007
Moon	100284-10-13 11:31 G	38349324.74	38349324.98	38349325.24	0.0089	0.0009
Earth	100284-10-13 15:21 G	38349324.89	38349325.14	38349325.39	0.0089	0.0005 *
Venus	100285-03-18 21:50 G	38349481.20	38349481.41	38349481.62	0.0089	0.0018
Earth	100285-10-16 02:09 G	38349692.35	38349692.59	38349692.84	0.0089	0.0025
Moon	100285-10-16 05:02 G	38349692.47	38349692.71	38349692.97	0.0089	0.0021 *
Venus	100285-10-30 10:04 G	38349706.73	38349706.92	38349707.14	0.0089	0.0029
Venus	100286-06-12 22:47 G	38349932.26	38349932.45	38349932.65	0.0089	0.0039
Moon	100286-10-18 11:02 G	38350059.75	38350059.96	38350060.17	0.0089	0.0047
Earth	100286-10-18 13:11 G	38350059.84	38350060.05	38350060.28	0.0089	0.0044 *
Venus	100287-01-24 11:16 G	38350157.80	38350157.97	38350158.16	0.0089	0.0050

Venus	100287-09-06 23:45 G	38350383.35	38350383.49	38350383.66	0.0089	0.0060
Earth	100287-10-20 23:59 G	38350427.33	38350427.50	38350427.69	0.0089	0.0063
Moon	100287-10-21 00:57 G	38350427.37	38350427.54	38350427.76	0.0089	0.0060 *
Venus	100288-04-19 12:28 G	38350608.90	38350609.02	38350609.16	0.0089	0.0071
Earth	100288-10-22 10:47 G	38350794.87	38350794.95	38350795.07	0.0089	0.0082
Moon	100288-10-22 11:16 G	38350794.92	38350794.97	38350795.05	0.0089	0.0086 *
Venus	100288-12-01 00:43 G	38350834.46	38350834.53	38350834.64	0.0089	0.0082
Mars	100318-09-17 22:19 G	38361716.28	38361716.43	38361716.64	0.0088	0.0073
Mars	100320-08-12 16:19 G	38362410.90	38362411.18	38362411.50	0.0088	0.0029
Mercury	100334-08-27 09:35 G	38367538.88	38367538.90	38367538.93	0.0088	0.0086
Mercury	100334-11-23 10:47 G	38367626.90	38367626.95	38367627.01	0.0088	0.0079
Mercury	100335-02-19 11:45 G	38367714.93	38367714.99	38367715.08	0.0088	0.0073
Mercury	100335-05-18 13:11 G	38367802.97	38367803.05	38367803.14	0.0088	0.0066
Mercury	100335-08-14 14:23 G	38367891.01	38367891.10	38367891.21	0.0088	0.0059
Mercury	100335-11-10 15:35 G	38367979.05	38367979.15	38367979.27	0.0088	0.0052
Mercury	100336-02-06 17:02 G	38368067.10	38368067.21	38368067.32	0.0088	0.0045
Mercury	100336-05-04 18:14 G	38368155.14	38368155.26	38368155.38	0.0088	0.0038
Mercury	100336-07-31 19:26 G	38368243.19	38368243.31	38368243.44	0.0088	0.0031
Mercury	100336-10-27 20:38 G	38368331.24	38368331.36	38368331.49	0.0088	0.0025
Mercury	100337-01-23 21:50 G	38368419.29	38368419.41	38368419.55	0.0088	0.0018
Mercury	100337-04-21 23:16 G	38368507.34	38368507.47	38368507.60	0.0088	0.0011
Mercury	100337-07-19 00:28 G	38368595.39	38368595.52	38368595.65	0.0088	0.0004
Mercury	100337-10-15 01:40 G	38368683.44	38368683.57	38368683.70	0.0088	0.0003
Mercury	100338-01-11 02:52 G	38368771.49	38368771.62	38368771.75	0.0088	0.0010
Mercury	100338-04-09 04:04 G	38368859.55	38368859.67	38368859.80	0.0088	0.0017
Mercury	100338-07-06 05:16 G	38368947.60	38368947.72	38368947.85	0.0088	0.0024
Mercury	100338-10-02 06:28 G	38369035.66	38369035.77	38369035.90	0.0088	0.0031
Mercury	100338-12-29 07:40 G	38369123.71	38369123.82	38369123.95	0.0088	0.0038
Mercury	100339-03-27 09:07 G	38369211.77	38369211.88	38369212.00	0.0088	0.0044
Mercury	100339-06-23 10:19 G	38369299.83	38369299.93	38369300.04	0.0088	0.0051

Mercury	100339-09-19 11:31 G	38369387.89	38369387.98	38369388.08	0.0088	0.0058
Mercury	100339-12-16 12:43 G	38369475.95	38369476.03	38369476.13	0.0088	0.0065
Mercury	100340-03-13 13:55 G	38369564.02	38369564.08	38369564.16	0.0088	0.0072
Mercury	100340-06-09 15:07 G	38369652.08	38369652.13	38369652.20	0.0088	0.0079
Mercury	100340-09-05 16:33 G	38369740.17	38369740.19	38369740.22	0.0088	0.0085
Venus	100362-05-27 20:09 G	38377674.28	38377674.34	38377674.44	0.0088	0.0082
Venus	100363-01-08 10:04 G	38377899.79	38377899.92	38377900.05	0.0088	0.0071
Earth	100363-04-05 17:59 G	38377987.14	38377987.25	38377987.37	0.0088	0.0078
Moon	100363-04-05 21:35 G	38377987.28	38377987.40	38377987.54	0.0088	0.0075 *
Venus	100363-08-21 23:16 G	38378125.32	38378125.47	38378125.64	0.0088	0.0061
Venus	100364-04-03 12:28 G	38378350.85	38378351.02	38378351.22	0.0088	0.0051
Moon	100364-04-07 02:09 G	38378354.44	38378354.59	38378354.80	0.0088	0.0063
Earth	100364-04-07 05:45 G	38378354.57	38378354.74	38378354.95	0.0088	0.0060 *
Venus	100364-11-15 01:55 G	38378576.39	38378576.58	38378576.79	0.0088	0.0040
Earth	100365-04-09 18:14 G	38378722.03	38378722.26	38378722.49	0.0088	0.0041
Moon	100365-04-09 21:50 G	38378722.18	38378722.41	38378722.65	0.0088	0.0037 *
Venus	100365-06-28 15:21 G	38378801.94	38378802.14	38378802.36	0.0088	0.0030
Venus	100366-02-09 05:02 G	38379027.50	38379027.71	38379027.94	0.0088	0.0019
Moon	100366-04-12 03:35 G	38379089.41	38379089.65	38379089.90	0.0088	0.0026
Earth	100366-04-12 05:59 G	38379089.51	38379089.75	38379090.02	0.0088	0.0023 *
Venus	100366-09-22 18:28 G	38379253.05	38379253.27	38379253.50	0.0088	0.0009
Earth	100367-04-14 18:28 G	38379457.01	38379457.27	38379457.53	0.0088	0.0004
Moon	100367-04-14 20:09 G	38379457.07	38379457.34	38379457.61	0.0088	0.0001 *
Venus	100367-05-06 07:55 G	38379478.61	38379478.83	38379479.06	0.0088	0.0003
Venus	100367-12-17 21:21 G	38379704.17	38379704.39	38379704.62	0.0088	0.0013
Moon	100368-04-16 05:45 G	38379824.50	38379824.74	38379825.00	0.0088	0.0012
Earth	100368-04-16 06:43 G	38379824.52	38379824.78	38379825.04	0.0088	0.0015 *
Venus	100368-07-30 10:33 G	38379929.74	38379929.94	38379930.17	0.0088	0.0024
Venus	100369-03-13 00:14 G	38380155.31	38380155.51	38380155.73	0.0088	0.0034
Moon	100369-04-18 17:31 G	38380192.01	38380192.23	38380192.50	0.0088	0.0038



Earth	100369-04-18 18:43 G	38380192.05	38380192.28	38380192.53	0.0088	0.0034	*
Venus	100369-10-24 13:26 G	38380380.88	38380381.06	38380381.27	0.0088	0.0045	
Earth	100370-04-21 06:57 G	38380559.60	38380559.79	38380560.02	0.0088	0.0053	
Moon	100370-04-21 08:38 G	38380559.67	38380559.86	38380560.09	0.0088	0.0050	*
Venus	100370-06-07 02:52 G	38380606.46	38380606.62	38380606.81	0.0088	0.0055	
Venus	100371-01-18 16:19 G	38380832.05	38380832.18	38380832.35	0.0088	0.0066	
Moon	100371-04-23 16:19 G	38380927.08	38380927.18	38380927.35	0.0088	0.0076	
Earth	100371-04-23 19:11 G	38380927.17	38380927.30	38380927.47	0.0088	0.0072	*
Venus	100371-09-01 05:59 G	38381057.65	38381057.75	38381057.88	0.0088	0.0076	
Venus	100372-04-13 19:40 G	38381283.28	38381283.32	38381283.36	0.0088	0.0086	
Moon	100372-04-25 11:02 G	38381294.95	38381294.96	38381295.03	0.0088	0.0087	
Mars	100402-07-18 23:31 G	38392336.23	38392336.48	38392336.77	0.0089	0.0044	
Mars	100404-06-12 18:43 G	38393031.07	38393031.28	38393031.54	0.0089	0.0060	
Mercury	100418-08-03 16:33 G	38398196.18	38398196.19	38398196.21	0.0090	0.0089	
Mercury	100418-10-30 20:23 G	38398284.26	38398284.35	38398284.45	0.0090	0.0078	
Mercury	100419-01-26 23:45 G	38398372.38	38398372.49	38398372.64	0.0090	0.0068	
Mercury	100419-04-25 03:35 G	38398460.52	38398460.65	38398460.83	0.0090	0.0057	
Mercury	100419-07-22 07:40 G	38398548.66	38398548.82	38398549.00	0.0090	0.0046	
Mercury	100419-10-18 11:31 G	38398636.81	38398636.98	38398637.18	0.0090	0.0035	
Mercury	100420-01-14 15:21 G	38398724.96	38398725.14	38398725.34	0.0090	0.0024	
Mercury	100420-04-11 19:26 G	38398813.12	38398813.31	38398813.51	0.0090	0.0012	
Mercury	100420-07-08 23:16 G	38398901.27	38398901.47	38398901.67	0.0090	0.0002	
Mercury	100420-10-05 03:07 G	38398989.44	38398989.63	38398989.83	0.0090	0.0010	
Mercury	100421-01-01 06:57 G	38399077.60	38399077.79	38399077.98	0.0090	0.0021	
Mercury	100421-03-30 10:33 G	38399165.77	38399165.94	38399166.14	0.0090	0.0032	
Mercury	100421-06-26 14:23 G	38399253.94	38399254.10	38399254.28	0.0090	0.0043	
Mercury	100421-09-22 18:14 G	38399342.11	38399342.26	38399342.43	0.0090	0.0054	
Mercury	100421-12-19 21:50 G	38399430.30	38399430.41	38399430.57	0.0090	0.0065	
Mercury	100422-03-18 01:40 G	38399518.49	38399518.57	38399518.69	0.0090	0.0076	
Mercury	100422-06-14 05:31 G	38399606.70	38399606.73	38399606.80	0.0090	0.0087	

Venus	100443-11-30 14:23 G	38407446.02	38407446.10	38407446.19	0.0090	0.0082
Venus	100444-07-13 02:52 G	38407671.51	38407671.62	38407671.76	0.0090	0.0072
Earth	100444-10-05 01:40 G	38407755.47	38407755.57	38407755.71	0.0090	0.0079
Moon	100444-10-05 04:33 G	38407755.60	38407755.69	38407755.83	0.0090	0.0080 *
Venus	100445-02-23 15:35 G	38407897.00	38407897.15	38407897.32	0.0090	0.0061
Venus	100445-10-07 03:50 G	38408122.51	38408122.66	38408122.86	0.0090	0.0051
Moon	100445-10-07 09:50 G	38408122.73	38408122.91	38408123.12	0.0090	0.0058 *
Earth	100445-10-07 13:11 G	38408122.88	38408123.05	38408123.26	0.0090	0.0060 *
Venus	100446-05-20 16:33 G	38408348.01	38408348.19	38408348.40	0.0090	0.0040
Earth	100446-10-10 00:57 G	38408490.31	38408490.54	38408490.77	0.0090	0.0040
Moon	100446-10-10 04:33 G	38408490.46	38408490.69	38408490.92	0.0090	0.0041 *
Venus	100447-01-01 05:31 G	38408573.53	38408573.73	38408573.94	0.0090	0.0029
Venus	100447-08-14 18:14 G	38408799.05	38408799.26	38408799.47	0.0090	0.0018
Moon	100447-10-12 09:07 G	38408857.64	38408857.88	38408858.13	0.0090	0.0019
Earth	100447-10-12 11:59 G	38408857.76	38408858.00	38408858.26	0.0090	0.0021 *
Venus	100448-03-27 06:57 G	38409024.57	38409024.79	38409025.00	0.0090	0.0007
Earth	100448-10-13 23:31 G	38409225.22	38409225.48	38409225.73	0.0090	0.0002
Moon	100448-10-14 02:09 G	38409225.33	38409225.59	38409225.85	0.0090	0.0003 *
Venus	100448-11-07 19:26 G	38409250.10	38409250.31	38409250.53	0.0089	0.0004
Venus	100449-06-21 07:55 G	38409475.63	38409475.83	38409476.05	0.0089	0.0015
Moon	100449-10-16 09:35 G	38409592.66	38409592.90	38409593.14	0.0089	0.0020
Earth	100449-10-16 10:33 G	38409592.70	38409592.94	38409593.20	0.0089	0.0018 *
Venus	100450-02-01 20:23 G	38409701.16	38409701.35	38409701.57	0.0089	0.0026
Venus	100450-09-15 09:07 G	38409926.69	38409926.88	38409927.09	0.0089	0.0036
Moon	100450-10-18 21:21 G	38409960.17	38409960.39	38409960.65	0.0089	0.0037
Earth	100450-10-18 21:35 G	38409960.18	38409960.40	38409960.64	0.0089	0.0038 *
Venus	100451-04-28 21:35 G	38410152.23	38410152.40	38410152.60	0.0089	0.0047
Earth	100451-10-21 08:38 G	38410327.67	38410327.86	38410328.06	0.0089	0.0057
Moon	100451-10-21 09:07 G	38410327.72	38410327.88	38410328.09	0.0089	0.0060 *
Venus	100451-12-10 09:50 G	38410377.77	38410377.91	38410378.10	0.0089	0.0058

Venus	100452-07-22 22:47 G	38410603.32	38410603.45	38410603.60	0.0089	0.0068
Moon	100452-10-22 16:33 G	38410695.07	38410695.19	38410695.35	0.0089	0.0075
Earth	100452-10-22 18:57 G	38410695.19	38410695.29	38410695.46	0.0089	0.0077 *
Venus	100453-03-05 11:16 G	38410828.89	38410828.97	38410829.09	0.0089	0.0078
Venus	100453-10-16 23:59 G	38411054.49	38411054.50	38411054.53	0.0089	0.0089
Mars	100484-03-27 04:47 G	38422173.39	38422173.70	38422174.01	0.0088	0.0007
Mercury	100499-05-24 08:52 G	38427709.85	38427709.87	38427709.92	0.0088	0.0084
Mercury	100499-08-20 10:19 G	38427797.88	38427797.93	38427798.00	0.0088	0.0077
Mercury	100499-11-16 11:31 G	38427885.91	38427885.98	38427886.07	0.0088	0.0070
Mercury	100500-02-12 12:57 G	38427973.95	38427974.04	38427974.13	0.0088	0.0063
Mercury	100500-05-11 14:09 G	38428061.99	38428062.09	38428062.19	0.0088	0.0056
Mercury	100500-08-07 15:07 G	38428150.04	38428150.13	38428150.25	0.0088	0.0050
Mercury	100500-11-03 16:33 G	38428238.08	38428238.19	38428238.31	0.0088	0.0043
Mercury	100501-01-30 17:45 G	38428326.13	38428326.24	38428326.37	0.0088	0.0036
Mercury	100501-04-28 19:11 G	38428414.17	38428414.30	38428414.42	0.0088	0.0029
Mercury	100501-07-25 20:23 G	38428502.22	38428502.35	38428502.48	0.0088	0.0022
Mercury	100501-10-21 21:35 G	38428590.27	38428590.40	38428590.53	0.0088	0.0015
Mercury	100502-01-17 22:47 G	38428678.32	38428678.45	38428678.58	0.0088	0.0008
Mercury	100502-04-15 23:59 G	38428766.37	38428766.50	38428766.64	0.0088	0.0004
Mercury	100502-07-13 01:26 G	38428854.42	38428854.56	38428854.69	0.0088	0.0006
Mercury	100502-10-09 02:38 G	38428942.48	38428942.61	38428942.74	0.0088	0.0012
Mercury	100503-01-05 03:50 G	38429030.53	38429030.66	38429030.79	0.0088	0.0019
Mercury	100503-04-03 05:02 G	38429118.59	38429118.71	38429118.84	0.0088	0.0026
Mercury	100503-06-30 06:14 G	38429206.64	38429206.76	38429206.89	0.0088	0.0033
Mercury	100503-09-26 07:26 G	38429294.70	38429294.81	38429294.93	0.0088	0.0040
Mercury	100503-12-23 08:38 G	38429382.76	38429382.86	38429382.98	0.0088	0.0047
Mercury	100504-03-20 09:50 G	38429470.82	38429470.91	38429471.02	0.0088	0.0054
Mercury	100504-06-16 11:02 G	38429558.88	38429558.96	38429559.07	0.0088	0.0061
Mercury	100504-09-12 12:28 G	38429646.94	38429647.02	38429647.11	0.0088	0.0067
Mercury	100504-12-09 13:40 G	38429735.00	38429735.07	38429735.14	0.0088	0.0074

Mercury	100505-03-07 14:52 G	38429823.08	38429823.12	38429823.17	0.0088	0.0081
Mercury	100505-06-03 16:04 G	38429911.17	38429911.17	38429911.18	0.0088	0.0088
Venus	100526-08-30 05:02 G	38437668.68	38437668.71	38437668.79	0.0088	0.0085
Moon	100527-04-05 21:07 G	38437887.30	38437887.38	38437887.51	0.0088	0.0080
Earth	100527-04-06 01:11 G	38437887.48	38437887.55	38437887.62	0.0088	0.0084 *
Venus	100527-04-12 18:14 G	38437894.17	38437894.26	38437894.41	0.0088	0.0075
Venus	100527-11-24 08:09 G	38438119.70	38438119.84	38438120.00	0.0088	0.0064
Earth	100528-04-07 12:43 G	38438254.88	38438255.03	38438255.23	0.0088	0.0066
Moon	100528-04-07 15:21 G	38438255.00	38438255.14	38438255.32	0.0088	0.0070 *
Venus	100528-07-06 21:21 G	38438345.23	38438345.39	38438345.59	0.0088	0.0054
Venus	100529-02-17 11:16 G	38438570.78	38438570.97	38438571.17	0.0088	0.0043
Moon	100529-04-09 22:47 G	38438622.25	38438622.45	38438622.69	0.0088	0.0044
Earth	100529-04-10 00:57 G	38438622.33	38438622.54	38438622.77	0.0088	0.0047 *
Venus	100529-10-01 00:28 G	38438796.32	38438796.52	38438796.74	0.0088	0.0033
Earth	100530-04-12 13:11 G	38438989.81	38438990.05	38438990.30	0.0088	0.0028
Moon	100530-04-12 13:26 G	38438989.83	38438990.06	38438990.33	0.0088	0.0033 *
Venus	100530-05-14 13:55 G	38439021.87	38439022.08	38439022.31	0.0088	0.0022
Venus	100530-12-26 03:21 G	38439247.42	38439247.64	38439247.87	0.0088	0.0012
Earth	100531-04-15 01:11 G	38439357.30	38439357.55	38439357.82	0.0088	0.0010
Moon	100531-04-15 02:09 G	38439357.34	38439357.59	38439357.85	0.0088	0.0006 *
Venus	100531-08-08 17:02 G	38439472.98	38439473.21	38439473.43	0.0088	0.0001
Venus	100532-03-21 06:14 G	38439698.54	38439698.76	38439698.99	0.0088	0.0010
Moon	100532-04-16 11:45 G	38439724.73	38439724.99	38439725.27	0.0088	0.0006
Earth	100532-04-16 13:26 G	38439724.80	38439725.06	38439725.33	0.0088	0.0009 *
Venus	100532-11-01 19:40 G	38439924.11	38439924.32	38439924.54	0.0088	0.0020
Earth	100533-04-19 01:26 G	38440092.32	38440092.56	38440092.82	0.0088	0.0028
Moon	100533-04-19 04:33 G	38440092.46	38440092.69	38440092.93	0.0088	0.0032 *
Venus	100533-06-15 08:52 G	38440149.67	38440149.87	38440150.10	0.0088	0.0031
Venus	100534-01-26 22:47 G	38440375.25	38440375.45	38440375.65	0.0088	0.0041
Moon	100534-04-21 10:04 G	38440459.71	38440459.92	38440460.17	0.0088	0.0043

Earth	100534-04-21 13:40 G	38440459.86	38440460.07	38440460.30	0.0088	0.0047 *
Venus	100534-09-09 11:59 G	38440600.83	38440601.00	38440601.19	0.0088	0.0052
Venus	100535-04-23 01:26 G	38440826.41	38440826.56	38440826.73	0.0088	0.0062
Earth	100535-04-24 01:40 G	38440827.42	38440827.57	38440827.77	0.0088	0.0066
Moon	100535-04-24 05:31 G	38440827.59	38440827.73	38440827.91	0.0088	0.0069 *
Venus	100535-12-04 14:38 G	38441052.00	38441052.11	38441052.25	0.0088	0.0073
Moon	100536-04-25 10:33 G	38441194.87	38441194.94	38441195.07	0.0088	0.0081
Earth	100536-04-25 13:55 G	38441195.05	38441195.08	38441195.19	0.0088	0.0085 *
Venus	100536-07-17 04:19 G	38441277.62	38441277.68	38441277.76	0.0088	0.0083
Mars	100566-03-03 10:33 G	38452098.83	38452098.94	38452099.09	0.0089	0.0081
Mars	100568-01-27 06:43 G	38452793.49	38452793.78	38452794.09	0.0089	0.0023
Mercury	100583-05-01 13:40 G	38458367.04	38458367.07	38458367.14	0.0090	0.0087
Mercury	100583-07-28 17:31 G	38458455.14	38458455.23	38458455.35	0.0090	0.0076
Mercury	100583-10-24 21:35 G	38458543.27	38458543.40	38458543.54	0.0090	0.0065
Mercury	100584-01-21 01:26 G	38458631.41	38458631.56	38458631.72	0.0090	0.0054
Mercury	100584-04-18 05:16 G	38458719.55	38458719.72	38458719.90	0.0090	0.0043
Mercury	100584-07-15 09:07 G	38458807.70	38458807.88	38458808.07	0.0090	0.0032
Mercury	100584-10-11 12:57 G	38458895.85	38458896.04	38458896.24	0.0090	0.0021
Mercury	100585-01-07 16:47 G	38458984.01	38458984.20	38458984.40	0.0090	0.0010
Mercury	100585-04-05 20:38 G	38459072.17	38459072.36	38459072.56	0.0090	0.0002
Mercury	100585-07-03 00:28 G	38459160.33	38459160.52	38459160.72	0.0090	0.0012
Mercury	100585-09-29 04:19 G	38459248.49	38459248.68	38459248.87	0.0090	0.0023
Mercury	100585-12-26 08:09 G	38459336.66	38459336.84	38459337.03	0.0090	0.0034
Mercury	100586-03-24 11:45 G	38459424.83	38459424.99	38459425.17	0.0090	0.0045
Mercury	100586-06-20 15:35 G	38459513.01	38459513.15	38459513.32	0.0090	0.0056
Mercury	100586-09-16 19:26 G	38459601.19	38459601.31	38459601.45	0.0090	0.0067
Mercury	100586-12-13 23:16 G	38459689.39	38459689.47	38459689.58	0.0090	0.0078
Mercury	100587-03-12 02:52 G	38459777.61	38459777.62	38459777.67	0.0090	0.0089
Venus	100608-03-05 00:14 G	38467440.47	38467440.51	38467440.59	0.0090	0.0086
Earth	100608-10-06 09:21 G	38467655.84	38467655.89	38467655.99	0.0090	0.0086

Venus	100608-10-16 12:57 G	38467665.94	38467666.04	38467666.17	0.0090	0.0075
Venus	100609-05-30 01:11 G	38467891.43	38467891.55	38467891.72	0.0090	0.0065
Earth	100609-10-08 21:07 G	38468023.22	38468023.38	38468023.56	0.0090	0.0066
Moon	100609-10-08 23:59 G	38468023.34	38468023.50	38468023.71	0.0090	0.0062 *
Venus	100610-01-10 13:55 G	38468116.93	38468117.08	38468117.27	0.0090	0.0054
Venus	100610-08-24 02:52 G	38468342.44	38468342.62	38468342.81	0.0090	0.0043
Moon	100610-10-11 05:45 G	38468390.55	38468390.74	38468390.96	0.0090	0.0052
Earth	100610-10-11 08:09 G	38468390.64	38468390.84	38468391.07	0.0090	0.0047 *
Venus	100611-04-06 15:21 G	38468567.95	38468568.14	38468568.35	0.0090	0.0032
Earth	100611-10-13 19:26 G	38468758.08	38468758.31	38468758.56	0.0090	0.0027
Moon	100611-10-13 20:38 G	38468758.11	38468758.36	38468758.62	0.0090	0.0023 *
Venus	100611-11-18 04:04 G	38468793.46	38468793.67	38468793.88	0.0090	0.0021
Venus	100612-06-30 16:47 G	38469018.99	38469019.20	38469019.42	0.0090	0.0011
Moon	100612-10-15 06:28 G	38469125.53	38469125.77	38469126.02	0.0090	0.0012
Earth	100612-10-15 06:57 G	38469125.54	38469125.79	38469126.04	0.0090	0.0008 *
Venus	100613-02-11 05:31 G	38469244.51	38469244.73	38469244.94	0.0090	0.0001
Venus	100613-09-24 17:59 G	38469470.04	38469470.25	38469470.47	0.0090	0.0011
Moon	100613-10-17 16:47 G	38469492.95	38469493.20	38469493.46	0.0090	0.0017
Earth	100613-10-17 18:14 G	38469493.01	38469493.26	38469493.51	0.0090	0.0012 *
Venus	100614-05-08 06:28 G	38469695.57	38469695.77	38469695.99	0.0090	0.0022
Earth	100614-10-20 05:02 G	38469860.49	38469860.71	38469860.97	0.0089	0.0032
Moon	100614-10-20 07:40 G	38469860.59	38469860.82	38469861.06	0.0089	0.0027 *
Venus	100614-12-19 18:57 G	38469921.10	38469921.29	38469921.50	0.0089	0.0033
Venus	100615-08-02 07:55 G	38470146.64	38470146.83	38470147.02	0.0089	0.0043
Moon	100615-10-22 12:57 G	38470227.87	38470228.04	38470228.27	0.0089	0.0056
Earth	100615-10-22 16:04 G	38470227.98	38470228.17	38470228.40	0.0089	0.0051 *
Venus	100616-03-14 20:23 G	38470372.19	38470372.35	38470372.53	0.0089	0.0054
Earth	100616-10-24 03:21 G	38470595.49	38470595.64	38470595.81	0.0089	0.0070
Moon	100616-10-24 06:57 G	38470595.63	38470595.79	38470595.97	0.0089	0.0065 *
Venus	100616-10-26 08:38 G	38470597.73	38470597.86	38470598.03	0.0089	0.0065

Venus	100617-06-08 21:21 G	38470823.28	38470823.39	38470823.52	0.0089	0.0075
Earth	100617-10-26 14:23 G	38470963.09	38470963.10	38470963.14	0.0089	0.0089
Venus	100618-01-20 09:35 G	38471048.86	38471048.90	38471048.99	0.0089	0.0086
Mars	100647-11-11 18:57 G	38481936.03	38481936.29	38481936.58	0.0088	0.0042
Mars	100649-10-06 10:19 G	38482630.73	38482630.93	38482631.19	0.0088	0.0059
Mercury	100664-02-20 08:23 G	38487880.82	38487880.85	38487880.91	0.0088	0.0082
Mercury	100664-05-18 09:50 G	38487968.85	38487968.91	38487968.98	0.0088	0.0075
Mercury	100664-08-14 11:02 G	38488056.88	38488056.96	38488057.05	0.0088	0.0068
Mercury	100664-11-10 12:28 G	38488144.92	38488145.02	38488145.11	0.0088	0.0061
Mercury	100665-02-06 13:26 G	38488232.97	38488233.06	38488233.17	0.0088	0.0055
Mercury	100665-05-05 14:38 G	38488321.01	38488321.11	38488321.23	0.0088	0.0048
Mercury	100665-08-01 16:04 G	38488409.06	38488409.17	38488409.29	0.0088	0.0041
Mercury	100665-10-28 17:16 G	38488497.10	38488497.22	38488497.35	0.0088	0.0034
Mercury	100666-01-24 18:28 G	38488585.15	38488585.27	38488585.40	0.0088	0.0027
Mercury	100666-04-22 19:54 G	38488673.20	38488673.33	38488673.46	0.0088	0.0020
Mercury	100666-07-19 21:06 G	38488761.25	38488761.38	38488761.51	0.0088	0.0013
Mercury	100666-10-15 22:18 G	38488849.30	38488849.43	38488849.56	0.0088	0.0006
Mercury	100667-01-11 23:30 G	38488937.35	38488937.48	38488937.62	0.0088	0.0002
Mercury	100667-04-10 00:57 G	38489025.40	38489025.54	38489025.67	0.0088	0.0008
Mercury	100667-07-07 01:54 G	38489113.46	38489113.58	38489113.72	0.0088	0.0015
Mercury	100667-10-03 03:21 G	38489201.51	38489201.64	38489201.77	0.0088	0.0021
Mercury	100667-12-30 04:33 G	38489289.57	38489289.69	38489289.82	0.0088	0.0028
Mercury	100668-03-27 05:45 G	38489377.62	38489377.74	38489377.86	0.0088	0.0035
Mercury	100668-06-23 06:57 G	38489465.68	38489465.79	38489465.91	0.0088	0.0042
Mercury	100668-09-19 08:09 G	38489553.74	38489553.84	38489553.96	0.0088	0.0049
Mercury	100668-12-16 09:21 G	38489641.80	38489641.89	38489642.00	0.0088	0.0056
Mercury	100669-03-14 10:47 G	38489729.86	38489729.95	38489730.04	0.0088	0.0062
Mercury	100669-06-10 11:59 G	38489817.92	38489818.00	38489818.08	0.0088	0.0069
Mercury	100669-09-06 13:11 G	38489905.99	38489906.05	38489906.12	0.0088	0.0076
Mercury	100669-12-03 14:09 G	38489994.06	38489994.09	38489994.14	0.0088	0.0083

Venus	100691-07-16 02:52 G	38497888.54	38497888.62	38497888.74	0.0088	0.0078
Venus	100692-02-26 16:47 G	38498114.06	38498114.20	38498114.35	0.0088	0.0067
Earth	100692-04-07 19:11 G	38498155.16	38498155.30	38498155.46	0.0088	0.0072
Moon	100692-04-07 19:11 G	38498155.16	38498155.30	38498155.45	0.0088	0.0072 *
Venus	100692-10-09 05:59 G	38498339.59	38498339.75	38498339.94	0.0088	0.0057
Moon	100693-04-10 06:14 G	38498522.57	38498522.76	38498523.00	0.0088	0.0054
Earth	100693-04-10 07:26 G	38498522.61	38498522.81	38498523.02	0.0088	0.0053 *
Venus	100693-05-22 19:11 G	38498565.13	38498565.30	38498565.51	0.0088	0.0047
Venus	100694-01-03 09:06 G	38498790.68	38498790.88	38498791.09	0.0088	0.0036
Earth	100694-04-12 18:57 G	38498890.07	38498890.29	38498890.55	0.0088	0.0035
Moon	100694-04-12 20:52 G	38498890.15	38498890.37	38498890.62	0.0088	0.0034 *
Venus	100694-08-16 22:18 G	38499016.23	38499016.43	38499016.66	0.0088	0.0026
Venus	100695-03-30 11:59 G	38499241.78	38499242.00	38499242.22	0.0088	0.0015
Moon	100695-04-15 04:18 G	38499257.42	38499257.68	38499257.95	0.0088	0.0016
Earth	100695-04-15 07:26 G	38499257.56	38499257.81	38499258.08	0.0088	0.0016 *
Venus	100695-11-11 01:26 G	38499467.33	38499467.56	38499467.78	0.0088	0.0004
Earth	100696-04-16 19:40 G	38499625.06	38499625.32	38499625.58	0.0088	0.0003
Moon	100696-04-16 22:47 G	38499625.20	38499625.45	38499625.71	0.0088	0.0005 *
Venus	100696-06-23 14:38 G	38499692.89	38499693.11	38499693.34	0.0088	0.0007
Venus	100697-02-04 04:04 G	38499918.46	38499918.67	38499918.90	0.0088	0.0017
Moon	100697-04-19 03:35 G	38499992.41	38499992.65	38499992.92	0.0088	0.0021
Earth	100697-04-19 07:26 G	38499992.57	38499992.81	38499993.07	0.0088	0.0022 *
Venus	100697-09-17 17:45 G	38500144.03	38500144.24	38500144.45	0.0088	0.0027
Earth	100698-04-21 19:26 G	38500360.09	38500360.31	38500360.56	0.0088	0.0041
Moon	100698-04-21 22:33 G	38500360.23	38500360.44	38500360.70	0.0088	0.0042 *
Venus	100698-05-01 06:42 G	38500369.59	38500369.78	38500370.00	0.0088	0.0038
Venus	100698-12-12 20:23 G	38500595.17	38500595.35	38500595.54	0.0088	0.0048
Moon	100699-04-24 05:02 G	38500727.53	38500727.71	38500727.92	0.0088	0.0058
Earth	100699-04-24 07:26 G	38500727.65	38500727.81	38500728.03	0.0088	0.0060 *
Venus	100699-07-26 09:35 G	38500820.75	38500820.90	38500821.08	0.0088	0.0059



Venus	100700-03-08 23:16 G	38501046.34	38501046.47	38501046.61	0.0088	0.0069
Earth	100700-04-26 20:09 G	38501095.23	38501095.34	38501095.46	0.0088	0.0078
Moon	100700-04-26 21:50 G	38501095.32	38501095.41	38501095.53	0.0088	0.0080 *
Venus	100700-10-20 12:14 G	38501271.95	38501272.01	38501272.13	0.0088	0.0080
Mars	100731-09-12 15:50 G	38512555.86	38512556.16	38512556.48	0.0089	0.0016
Mars	100733-08-07 10:47 G	38513250.92	38513250.95	38513251.04	0.0089	0.0088
Mercury	100748-01-28 11:02 G	38518537.92	38518537.96	38518538.04	0.0090	0.0085
Mercury	100748-04-25 14:52 G	38518626.03	38518626.12	38518626.25	0.0090	0.0074
Mercury	100748-07-22 18:42 G	38518714.16	38518714.28	38518714.44	0.0090	0.0063
Mercury	100748-10-18 22:47 G	38518802.30	38518802.45	38518802.62	0.0090	0.0052
Mercury	100749-01-15 02:38 G	38518890.44	38518890.61	38518890.79	0.0090	0.0041
Mercury	100749-04-13 06:28 G	38518978.59	38518978.77	38518978.96	0.0090	0.0030
Mercury	100749-07-10 10:18 G	38519066.74	38519066.93	38519067.13	0.0090	0.0019
Mercury	100749-10-06 14:09 G	38519154.90	38519155.09	38519155.29	0.0090	0.0008
Mercury	100750-01-02 17:59 G	38519243.05	38519243.25	38519243.45	0.0090	0.0003
Mercury	100750-03-31 21:50 G	38519331.22	38519331.41	38519331.61	0.0090	0.0014
Mercury	100750-06-28 01:40 G	38519419.38	38519419.57	38519419.76	0.0090	0.0025
Mercury	100750-09-24 05:16 G	38519507.55	38519507.72	38519507.91	0.0090	0.0036
Mercury	100750-12-21 09:06 G	38519595.72	38519595.88	38519596.06	0.0090	0.0047
Mercury	100751-03-19 12:57 G	38519683.90	38519684.04	38519684.20	0.0090	0.0058
Mercury	100751-06-15 16:33 G	38519772.08	38519772.19	38519772.33	0.0090	0.0069
Mercury	100751-09-11 20:23 G	38519860.28	38519860.35	38519860.46	0.0090	0.0080
Venus	100772-06-07 09:50 G	38527434.90	38527434.91	38527434.94	0.0090	0.0089
Venus	100773-01-18 22:04 G	38527660.34	38527660.42	38527660.54	0.0090	0.0079
Venus	100773-09-01 11:02 G	38527885.83	38527885.96	38527886.11	0.0090	0.0068
Moon	100773-10-09 01:54 G	38527923.45	38527923.58	38527923.75	0.0090	0.0072
Earth	100773-10-09 03:21 G	38527923.51	38527923.64	38527923.80	0.0090	0.0073 *
Venus	100774-04-14 23:16 G	38528111.33	38528111.47	38528111.66	0.0090	0.0058
Earth	100774-10-11 14:38 G	38528290.92	38528291.11	38528291.33	0.0090	0.0054
Moon	100774-10-11 14:38 G	38528290.93	38528291.11	38528291.34	0.0090	0.0056 *

Venus	100774-11-26 11:59 G	38528336.83	38528337.00	38528337.20	0.0090	0.0047
Venus	100775-07-10 00:57 G	38528562.34	38528562.54	38528562.74	0.0090	0.0036
Earth	100775-10-14 01:40 G	38528658.35	38528658.57	38528658.82	0.0090	0.0035
Moon	100775-10-14 03:35 G	38528658.42	38528658.65	38528658.88	0.0090	0.0032 *
Venus	100776-02-20 13:11 G	38528787.86	38528788.05	38528788.27	0.0090	0.0026
Venus	100776-10-03 01:54 G	38529013.38	38529013.58	38529013.80	0.0090	0.0015
Moon	100776-10-15 11:02 G	38529025.71	38529025.96	38529026.23	0.0090	0.0017
Earth	100776-10-15 13:26 G	38529025.81	38529026.06	38529026.31	0.0090	0.0015 *
Venus	100777-05-16 14:38 G	38529238.90	38529239.11	38529239.33	0.0090	0.0004
Earth	100777-10-18 00:42 G	38529393.28	38529393.53	38529393.78	0.0090	0.0005
Moon	100777-10-18 03:35 G	38529393.41	38529393.65	38529393.91	0.0090	0.0007 *
Venus	100777-12-28 03:06 G	38529464.42	38529464.63	38529464.85	0.0090	0.0008
Venus	100778-08-10 16:04 G	38529689.96	38529690.17	38529690.38	0.0090	0.0018
Moon	100778-10-20 08:23 G	38529760.60	38529760.85	38529761.10	0.0090	0.0022
Earth	100778-10-20 11:45 G	38529760.76	38529760.99	38529761.24	0.0090	0.0024 *
Venus	100779-03-24 04:33 G	38529915.49	38529915.69	38529915.90	0.0089	0.0029
Earth	100779-10-22 23:02 G	38530128.25	38530128.46	38530128.69	0.0089	0.0044
Moon	100779-10-23 02:23 G	38530128.39	38530128.60	38530128.83	0.0089	0.0045 *
Venus	100779-11-04 17:02 G	38530141.03	38530141.21	38530141.41	0.0089	0.0039
Venus	100780-06-17 05:45 G	38530366.57	38530366.74	38530366.92	0.0089	0.0050
Moon	100780-10-24 07:26 G	38530495.63	38530495.81	38530495.99	0.0089	0.0062
Earth	100780-10-24 10:04 G	38530495.76	38530495.92	38530496.12	0.0089	0.0064 *
Venus	100781-01-28 18:14 G	38530592.11	38530592.26	38530592.43	0.0089	0.0061
Venus	100781-09-11 06:42 G	38530817.67	38530817.78	38530817.93	0.0089	0.0072
Earth	100781-10-26 21:06 G	38530863.31	38530863.38	38530863.50	0.0089	0.0083
Moon	100781-10-26 23:16 G	38530863.40	38530863.47	38530863.58	0.0089	0.0084 *
Venus	100782-04-24 19:26 G	38531043.24	38531043.31	38531043.41	0.0089	0.0082
Mars	100811-06-27 09:35 G	38541698.77	38541698.90	38541699.07	0.0088	0.0077
Mars	100813-05-21 23:16 G	38542393.18	38542393.47	38542393.78	0.0088	0.0023
Mercury	100828-08-21 06:42 G	38547963.77	38547963.78	38547963.80	0.0088	0.0087

Mercury	100828-11-17 07:54 G	38548051.79	38548051.83	38548051.89	0.0088	0.0080
Mercury	100829-02-13 09:21 G	38548139.82	38548139.89	38548139.96	0.0088	0.0073
Mercury	100829-05-12 10:33 G	38548227.86	38548227.94	38548228.03	0.0088	0.0066
Mercury	100829-08-08 11:30 G	38548315.90	38548315.98	38548316.09	0.0088	0.0060
Mercury	100829-11-04 12:57 G	38548403.94	38548404.04	38548404.15	0.0088	0.0053
Mercury	100830-01-31 14:09 G	38548491.98	38548492.09	38548492.21	0.0088	0.0046
Mercury	100830-04-29 15:21 G	38548580.03	38548580.14	38548580.27	0.0088	0.0039
Mercury	100830-07-26 16:47 G	38548668.08	38548668.20	38548668.32	0.0088	0.0032
Mercury	100830-10-22 17:59 G	38548756.13	38548756.25	38548756.38	0.0088	0.0025
Mercury	100831-01-18 19:11 G	38548844.18	38548844.30	38548844.43	0.0088	0.0018
Mercury	100831-04-16 20:23 G	38548932.23	38548932.35	38548932.49	0.0088	0.0012
Mercury	100831-07-13 21:50 G	38549020.28	38549020.41	38549020.54	0.0088	0.0005
Mercury	100831-10-09 23:02 G	38549108.33	38549108.46	38549108.59	0.0088	0.0002
Mercury	100832-01-06 00:14 G	38549196.38	38549196.51	38549196.64	0.0088	0.0009
Mercury	100832-04-03 01:26 G	38549284.43	38549284.56	38549284.69	0.0088	0.0016
Mercury	100832-06-30 02:38 G	38549372.49	38549372.61	38549372.74	0.0088	0.0023
Mercury	100832-09-26 03:50 G	38549460.54	38549460.66	38549460.79	0.0088	0.0030
Mercury	100832-12-23 05:02 G	38549548.60	38549548.71	38549548.84	0.0088	0.0037
Mercury	100833-03-21 06:14 G	38549636.66	38549636.76	38549636.88	0.0088	0.0044
Mercury	100833-06-17 07:26 G	38549724.71	38549724.81	38549724.93	0.0088	0.0051
Mercury	100833-09-13 08:52 G	38549812.78	38549812.87	38549812.97	0.0088	0.0057
Mercury	100833-12-10 10:04 G	38549900.84	38549900.92	38549901.01	0.0088	0.0064
Mercury	100834-03-08 11:16 G	38549988.90	38549988.97	38549989.05	0.0088	0.0071
Mercury	100834-06-04 12:28 G	38550076.97	38550077.02	38550077.09	0.0088	0.0078
Mercury	100834-08-31 13:40 G	38550165.05	38550165.07	38550165.11	0.0088	0.0084
Venus	100855-10-18 11:16 G	38557882.90	38557882.97	38557883.08	0.0088	0.0081
Moon	100856-04-07 22:47 G	38558055.33	38558055.45	38558055.62	0.0088	0.0074
Earth	100856-04-08 00:57 G	38558055.45	38558055.54	38558055.69	0.0088	0.0079 *
Venus	100856-05-31 00:42 G	38558108.42	38558108.53	38558108.68	0.0088	0.0071
Venus	100857-01-11 14:23 G	38558333.95	38558334.10	38558334.28	0.0088	0.0060

Earth	100857-04-10 12:57 G	38558422.88	38558423.04	38558423.26	0.0088	0.0060
Moon	100857-04-10 16:04 G	38558423.01	38558423.17	38558423.36	0.0088	0.0064 *
Venus	100857-08-25 03:50 G	38558559.49	38558559.66	38558559.86	0.0088	0.0050
Venus	100858-04-07 17:30 G	38558785.03	38558785.23	38558785.44	0.0088	0.0039
Moon	100858-04-12 22:04 G	38558790.19	38558790.42	38558790.67	0.0088	0.0036
Earth	100858-04-13 01:26 G	38558790.34	38558790.56	38558790.81	0.0088	0.0041 *
Venus	100858-11-19 06:42 G	38559010.58	38559010.78	38559011.01	0.0088	0.0029
Earth	100859-04-15 13:40 G	38559157.82	38559158.07	38559158.33	0.0088	0.0022
Moon	100859-04-15 17:16 G	38559157.98	38559158.22	38559158.48	0.0088	0.0027 *
Venus	100859-07-02 20:23 G	38559236.13	38559236.35	38559236.57	0.0088	0.0018
Venus	100860-02-13 10:04 G	38559461.70	38559461.92	38559462.14	0.0088	0.0008
Moon	100860-04-16 22:33 G	38559525.19	38559525.44	38559525.70	0.0088	0.0002
Earth	100860-04-17 01:40 G	38559525.31	38559525.57	38559525.84	0.0088	0.0004 *
Venus	100860-09-25 23:30 G	38559687.25	38559687.48	38559687.70	0.0088	0.0003
Earth	100861-04-19 13:40 G	38559892.82	38559893.07	38559893.33	0.0088	0.0016
Moon	100861-04-19 16:47 G	38559892.94	38559893.20	38559893.47	0.0088	0.0011 *
Venus	100861-05-09 12:42 G	38559912.81	38559913.03	38559913.26	0.0088	0.0013
Venus	100861-12-21 01:54 G	38560138.37	38560138.58	38560138.81	0.0088	0.0024
Moon	100862-04-21 23:59 G	38560260.29	38560260.50	38560260.75	0.0088	0.0040
Earth	100862-04-22 01:40 G	38560260.34	38560260.57	38560260.82	0.0088	0.0035 *
Venus	100862-08-03 15:06 G	38560363.94	38560364.13	38560364.36	0.0088	0.0035
Venus	100863-03-17 04:47 G	38560589.52	38560589.70	38560589.90	0.0088	0.0045
Moon	100863-04-24 14:09 G	38560627.87	38560628.09	38560628.32	0.0088	0.0049
Earth	100863-04-24 13:26 G	38560627.88	38560628.06	38560628.29	0.0088	0.0054 *
Venus	100863-10-28 17:45 G	38560815.09	38560815.24	38560815.44	0.0088	0.0056
Earth	100864-04-26 01:40 G	38560995.44	38560995.57	38560995.74	0.0088	0.0072
Moon	100864-04-26 02:09 G	38560995.49	38560995.59	38560995.73	0.0088	0.0077 *
Venus	100864-06-10 07:11 G	38561040.68	38561040.80	38561040.97	0.0088	0.0066
Venus	100865-01-21 21:06 G	38561266.27	38561266.38	38561266.49	0.0088	0.0076
Moon	100865-04-28 11:30 G	38561362.95	38561362.98	38561363.05	0.0088	0.0086

Venus	100865-09-04 10:04 G	38561491.91	38561491.92	38561491.98	0.0088	0.0087
Jupiter	100881-10-22 08:09 G	38567383.29	38567383.84	38567384.41	0.0088	0.0001
Mars	100895-04-26 21:35 G	38572318.18	38572318.40	38572318.67	0.0089	0.0055
Mars	100897-03-21 20:38 G	38573013.12	38573013.36	38573013.64	0.0089	0.0049
Mercury	100912-10-25 08:23 G	38578708.78	38578708.85	38578708.92	0.0090	0.0083
Mercury	100913-01-21 11:45 G	38578796.90	38578796.99	38578797.13	0.0090	0.0073
Mercury	100913-04-19 15:35 G	38578885.03	38578885.15	38578885.31	0.0090	0.0062
Mercury	100913-07-16 19:40 G	38578973.17	38578973.32	38578973.49	0.0090	0.0051
Mercury	100913-10-12 23:30 G	38579061.31	38579061.48	38579061.67	0.0090	0.0040
Mercury	100914-01-09 03:21 G	38579149.46	38579149.64	38579149.83	0.0090	0.0029
Mercury	100914-04-07 07:11 G	38579237.61	38579237.80	38579238.00	0.0090	0.0018
Mercury	100914-07-04 11:16 G	38579325.77	38579325.97	38579326.16	0.0090	0.0007
Mercury	100914-09-30 14:52 G	38579413.93	38579414.12	38579414.32	0.0090	0.0005
Mercury	100914-12-27 18:42 G	38579502.09	38579502.28	38579502.48	0.0090	0.0015
Mercury	100915-03-25 22:33 G	38579590.26	38579590.44	38579590.63	0.0090	0.0026
Mercury	100915-06-22 02:23 G	38579678.42	38579678.60	38579678.78	0.0090	0.0037
Mercury	100915-09-18 05:59 G	38579766.60	38579766.75	38579766.93	0.0090	0.0048
Mercury	100915-12-15 09:50 G	38579854.77	38579854.91	38579855.07	0.0090	0.0059
Mercury	100916-03-12 13:40 G	38579942.96	38579943.07	38579943.20	0.0090	0.0070
Mercury	100916-06-08 17:16 G	38580031.16	38580031.22	38580031.33	0.0090	0.0081
Venus	100937-04-23 07:11 G	38587654.74	38587654.80	38587654.91	0.0090	0.0083
Moon	100937-10-09 07:54 G	38587823.75	38587823.83	38587823.95	0.0090	0.0083
Earth	100937-10-09 09:35 G	38587823.80	38587823.90	38587824.02	0.0090	0.0080 *
Venus	100937-12-04 19:54 G	38587880.22	38587880.33	38587880.47	0.0090	0.0072
Venus	100938-07-18 08:52 G	38588105.72	38588105.87	38588106.03	0.0090	0.0061
Earth	100938-10-11 20:38 G	38588191.19	38588191.36	38588191.56	0.0090	0.0061
Moon	100938-10-11 22:18 G	38588191.27	38588191.43	38588191.65	0.0090	0.0058 *
Venus	100939-02-28 21:06 G	38588331.22	38588331.38	38588331.58	0.0090	0.0051
Venus	100939-10-12 09:50 G	38588556.73	38588556.91	38588557.11	0.0090	0.0040
Moon	100939-10-14 04:33 G	38588558.48	38588558.69	38588558.93	0.0090	0.0045

Earth	100939-10-14 07:54 G	38588558.62	38588558.83	38588559.07	0.0090	0.0042	*
Venus	100940-05-24 22:18 G	38588782.24	38588782.43	38588782.64	0.0090	0.0029	
Earth	100940-10-15 19:26 G	38588926.07	38588926.31	38588926.56	0.0090	0.0022	
Moon	100940-10-15 22:33 G	38588926.21	38588926.44	38588926.70	0.0090	0.0019	*
Venus	100941-01-05 10:47 G	38589007.75	38589007.95	38589008.17	0.0090	0.0019	
Venus	100941-08-18 23:45 G	38589233.28	38589233.49	38589233.70	0.0090	0.0008	
Moon	100941-10-18 02:52 G	38589293.38	38589293.62	38589293.88	0.0090	0.0007	
Earth	100941-10-18 06:42 G	38589293.52	38589293.78	38589294.03	0.0090	0.0003	*
Venus	100942-04-01 12:14 G	38589458.80	38589459.01	38589459.23	0.0090	0.0003	
Earth	100942-10-20 17:45 G	38589660.99	38589661.24	38589661.49	0.0090	0.0017	
Moon	100942-10-20 20:38 G	38589661.11	38589661.36	38589661.62	0.0090	0.0021	*
Venus	100942-11-13 00:42 G	38589684.32	38589684.53	38589684.75	0.0090	0.0014	
Venus	100943-06-26 13:11 G	38589909.85	38589910.05	38589910.27	0.0090	0.0025	
Moon	100943-10-23 02:38 G	38590028.40	38590028.61	38590028.86	0.0090	0.0034	
Earth	100943-10-23 04:47 G	38590028.48	38590028.70	38590028.94	0.0090	0.0037	*
Venus	100944-02-07 01:40 G	38590135.39	38590135.57	38590135.78	0.0090	0.0036	
Venus	100944-09-19 14:38 G	38590360.93	38590361.11	38590361.30	0.0090	0.0046	
Earth	100944-10-24 16:04 G	38590395.98	38590396.17	38590396.37	0.0090	0.0056	
Moon	100944-10-24 17:30 G	38590396.04	38590396.23	38590396.43	0.0090	0.0060	*
Venus	100945-05-03 02:52 G	38590586.47	38590586.62	38590586.80	0.0089	0.0057	
Earth	100945-10-27 02:52 G	38590763.51	38590763.62	38590763.78	0.0089	0.0076	
Moon	100945-10-27 03:35 G	38590763.52	38590763.65	38590763.81	0.0089	0.0072	*
Venus	100945-12-14 15:21 G	38590812.02	38590812.14	38590812.31	0.0089	0.0068	
Venus	100946-07-28 04:18 G	38591037.59	38591037.68	38591037.80	0.0089	0.0078	
Venus	100947-03-10 16:47 G	38591263.19	38591263.20	38591263.25	0.0089	0.0089	
Mars	100977-01-04 12:42 G	38602155.73	38602156.03	38602156.35	0.0088	0.0013	
Mars	100978-11-30 02:38 G	38602850.57	38602850.61	38602850.69	0.0088	0.0087	
Mercury	100993-05-19 05:45 G	38608134.73	38608134.74	38608134.79	0.0088	0.0086	
Mercury	100993-08-15 07:11 G	38608222.75	38608222.80	38608222.87	0.0088	0.0079	
Mercury	100993-11-11 08:23 G	38608310.79	38608310.85	38608310.94	0.0088	0.0072	

Mercury	100994-02-07 09:50 G	38608398.83	38608398.91	38608399.00	0.0088	0.0065
Mercury	100994-05-06 11:02 G	38608486.87	38608486.96	38608487.06	0.0088	0.0058
Mercury	100994-08-02 12:28 G	38608574.91	38608575.02	38608575.12	0.0088	0.0051
Mercury	100994-10-29 13:26 G	38608662.96	38608663.06	38608663.18	0.0088	0.0045
Mercury	100995-01-25 14:38 G	38608751.00	38608751.11	38608751.24	0.0088	0.0038
Mercury	100995-04-23 16:04 G	38608839.05	38608839.17	38608839.30	0.0088	0.0031
Mercury	100995-07-20 17:16 G	38608927.10	38608927.22	38608927.35	0.0088	0.0024
Mercury	100995-10-16 18:42 G	38609015.15	38609015.28	38609015.41	0.0088	0.0017
Mercury	100996-01-12 19:54 G	38609103.20	38609103.33	38609103.46	0.0088	0.0010
Mercury	100996-04-09 21:06 G	38609191.25	38609191.38	38609191.51	0.0088	0.0003
Mercury	100996-07-06 22:18 G	38609279.30	38609279.43	38609279.56	0.0088	0.0004
Mercury	100996-10-02 23:30 G	38609367.35	38609367.48	38609367.62	0.0088	0.0011
Mercury	100996-12-30 00:42 G	38609455.41	38609455.53	38609455.67	0.0088	0.0018
Mercury	100997-03-28 01:54 G	38609543.46	38609543.58	38609543.72	0.0088	0.0025
Mercury	100997-06-24 03:06 G	38609631.52	38609631.63	38609631.76	0.0088	0.0032
Mercury	100997-09-20 04:33 G	38609719.57	38609719.69	38609719.81	0.0088	0.0038
Mercury	100997-12-17 05:45 G	38609807.63	38609807.74	38609807.86	0.0088	0.0045
Mercury	100998-03-15 06:57 G	38609895.69	38609895.79	38609895.90	0.0088	0.0052
Mercury	100998-06-11 08:09 G	38609983.75	38609983.84	38609983.94	0.0088	0.0059
Mercury	100998-09-07 09:21 G	38610071.81	38610071.89	38610071.99	0.0088	0.0066
Mercury	100998-12-04 10:47 G	38610159.88	38610159.95	38610160.02	0.0088	0.0072
Mercury	100999-03-02 11:59 G	38610247.95	38610248.00	38610248.06	0.0088	0.0079
Mercury	100999-05-29 13:11 G	38610336.03	38610336.05	38610336.08	0.0088	0.0086

# 102ND MILLENNIUM CE

This is a list of transits visible from Neptune in the 102nd millennium

## CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	101020-01-21 19:40	G	38617877.26	38617877.32	38617877.38	0.0088	0.0084	
Earth	101020-04-09 06:28	G	38617955.73	38617955.77	38617955.85	0.0088	0.0085	
Moon	101020-04-09 10:33	G	38617955.85	38617955.94	38617956.03	0.0088	0.0082	*
Venus	101020-09-03 08:52	G	38618102.76	38618102.87	38618103.00	0.0088	0.0074	
Moon	101021-04-11 14:52	G	38618322.99	38618323.12	38618323.31	0.0088	0.0070	
Earth	101021-04-11 18:57	G	38618323.13	38618323.29	38618323.47	0.0088	0.0066	*
Venus	101021-04-16 22:04	G	38618328.29	38618328.42	38618328.60	0.0088	0.0064	
Venus	101021-11-28 11:59	G	38618553.82	38618554.00	38618554.18	0.0088	0.0053	
Earth	101022-04-14 06:42	G	38618690.58	38618690.78	38618691.02	0.0088	0.0048	
Moon	101022-04-14 10:04	G	38618690.72	38618690.92	38618691.17	0.0088	0.0046	*
Venus	101022-07-12 01:11	G	38618779.37	38618779.55	38618779.76	0.0088	0.0043	
Venus	101023-02-22 15:06	G	38619004.92	38619005.13	38619005.34	0.0088	0.0032	
Moon	101023-04-16 16:18	G	38619057.95	38619058.18	38619058.42	0.0088	0.0031	
Earth	101023-04-16 18:57	G	38619058.05	38619058.29	38619058.55	0.0088	0.0029	*
Venus	101023-10-06 04:18	G	38619230.47	38619230.68	38619230.91	0.0088	0.0022	
Earth	101024-04-18 07:11	G	38619425.54	38619425.80	38619426.06	0.0088	0.0010	
Moon	101024-04-18 08:38	G	38619425.59	38619425.86	38619426.13	0.0088	0.0007	*
Venus	101024-05-18 17:59	G	38619456.03	38619456.25	38619456.47	0.0088	0.0011	
Venus	101024-12-30 07:26	G	38619681.58	38619681.81	38619682.03	0.0088	0.0001	
Moon	101025-04-20 18:42	G	38619793.03	38619793.28	38619793.53	0.0088	0.0008	
Earth	101025-04-20 19:11	G	38619793.05	38619793.30	38619793.57	0.0088	0.0010	*
Venus	101025-08-12 20:52	G	38619907.15	38619907.37	38619907.59	0.0088	0.0010	
Venus	101026-03-26 10:04	G	38620132.71	38620132.92	38620133.15	0.0088	0.0021	
Moon	101026-04-23 06:42	G	38620160.52	38620160.78	38620161.03	0.0088	0.0030	
Earth	101026-04-23 06:57	G	38620160.56	38620160.79	38620161.06	0.0088	0.0029	*



Venus	101026-11-06 23:30 G	38620358.28	38620358.48	38620358.70	0.0088	0.0031
Earth	101027-04-25 19:26 G	38620528.09	38620528.31	38620528.53	0.0088	0.0047
Moon	101027-04-25 21:35 G	38620528.19	38620528.40	38620528.62	0.0088	0.0045 *
Venus	101027-06-20 12:42 G	38620583.85	38620584.03	38620584.24	0.0088	0.0042
Venus	101028-02-01 02:23 G	38620809.43	38620809.60	38620809.79	0.0088	0.0052
Moon	101028-04-27 04:04 G	38620895.53	38620895.67	38620895.87	0.0088	0.0068
Earth	101028-04-27 07:11 G	38620895.65	38620895.80	38620895.99	0.0088	0.0066 *
Venus	101028-09-13 15:50 G	38621035.01	38621035.16	38621035.32	0.0088	0.0062
Venus	101029-04-27 04:47 G	38621260.60	38621260.70	38621260.85	0.0088	0.0073
Earth	101029-04-29 18:57 G	38621263.26	38621263.29	38621263.39	0.0088	0.0085
Moon	101029-04-29 23:02 G	38621263.39	38621263.46	38621263.55	0.0088	0.0083 *
Venus	101029-12-08 18:14 G	38621486.21	38621486.26	38621486.35	0.0088	0.0083
Mars	101060-11-05 01:26 G	38632775.25	38632775.56	38632775.88	0.0089	0.0010
Mercury	101077-07-23 05:02 G	38638879.65	38638879.71	38638879.80	0.0090	0.0082
Mercury	101077-10-19 09:06 G	38638967.77	38638967.88	38638968.00	0.0090	0.0071
Mercury	101078-01-15 12:57 G	38639055.90	38639056.04	38639056.19	0.0090	0.0060
Mercury	101078-04-13 16:33 G	38639144.04	38639144.19	38639144.37	0.0090	0.0050
Mercury	101078-07-10 20:23 G	38639232.18	38639232.35	38639232.54	0.0090	0.0039
Mercury	101078-10-07 00:14 G	38639320.33	38639320.51	38639320.71	0.0090	0.0028
Mercury	101079-01-03 04:18 G	38639408.49	38639408.68	38639408.87	0.0090	0.0017
Mercury	101079-04-01 08:09 G	38639496.64	38639496.84	38639497.04	0.0090	0.0006
Mercury	101079-06-28 11:59 G	38639584.80	38639585.00	38639585.20	0.0090	0.0005
Mercury	101079-09-24 15:35 G	38639672.96	38639673.15	38639673.35	0.0090	0.0017
Mercury	101079-12-21 19:40 G	38639761.13	38639761.32	38639761.50	0.0090	0.0027
Mercury	101080-03-18 23:16 G	38639849.30	38639849.47	38639849.65	0.0090	0.0038
Mercury	101080-06-15 03:06 G	38639937.47	38639937.63	38639937.80	0.0090	0.0049
Mercury	101080-09-11 06:42 G	38640025.65	38640025.78	38640025.94	0.0090	0.0060
Mercury	101080-12-08 10:33 G	38640113.83	38640113.94	38640114.07	0.0090	0.0071
Mercury	101081-03-06 14:09 G	38640202.03	38640202.09	38640202.19	0.0090	0.0082
Venus	101101-07-27 15:50 G	38647649.13	38647649.16	38647649.24	0.0090	0.0087

Earth	101101-10-10 14:23 G	38647724.07	38647724.10	38647724.17	0.0090	0.0088
Venus	101102-03-10 04:47 G	38647874.60	38647874.70	38647874.83	0.0090	0.0076
Moon	101102-10-12 22:18 G	38648091.28	38648091.43	38648091.64	0.0090	0.0065
Earth	101102-10-13 01:40 G	38648091.44	38648091.57	38648091.76	0.0090	0.0069 *
Venus	101102-10-21 17:02 G	38648100.09	38648100.21	38648100.38	0.0090	0.0066
Venus	101103-06-04 05:45 G	38648325.59	38648325.74	38648325.93	0.0090	0.0055
Earth	101103-10-15 13:26 G	38648458.86	38648459.06	38648459.28	0.0090	0.0049
Moon	101103-10-15 17:16 G	38648459.02	38648459.22	38648459.43	0.0090	0.0053 *
Venus	101104-01-15 18:42 G	38648551.10	38648551.28	38648551.47	0.0090	0.0044
Venus	101104-08-28 07:11 G	38648776.61	38648776.80	38648777.01	0.0090	0.0033
Moon	101104-10-16 22:04 G	38648826.18	38648826.42	38648826.66	0.0090	0.0025
Earth	101104-10-17 00:42 G	38648826.30	38648826.53	38648826.78	0.0090	0.0030 *
Venus	101105-04-10 19:54 G	38649002.12	38649002.33	38649002.54	0.0090	0.0023
Earth	101105-10-19 12:14 G	38649193.76	38649194.01	38649194.26	0.0090	0.0010
Moon	101105-10-19 14:23 G	38649193.86	38649194.10	38649194.37	0.0090	0.0014 *
Venus	101105-11-22 08:23 G	38649227.64	38649227.85	38649228.07	0.0090	0.0012
Venus	101106-07-05 21:06 G	38649453.17	38649453.38	38649453.60	0.0090	0.0001
Moon	101106-10-21 22:04 G	38649561.18	38649561.42	38649561.67	0.0090	0.0014
Earth	101106-10-21 23:16 G	38649561.22	38649561.47	38649561.73	0.0090	0.0010 *
Venus	101107-02-16 09:35 G	38649678.69	38649678.90	38649679.12	0.0090	0.0010
Venus	101107-09-29 22:04 G	38649904.22	38649904.42	38649904.64	0.0090	0.0021
Moon	101107-10-24 10:04 G	38649928.68	38649928.92	38649929.18	0.0090	0.0026
Earth	101107-10-24 10:18 G	38649928.70	38649928.93	38649929.18	0.0090	0.0030 *
Venus	101108-05-12 10:47 G	38650129.75	38650129.95	38650130.15	0.0090	0.0031
Earth	101108-10-25 21:35 G	38650296.20	38650296.40	38650296.62	0.0090	0.0049
Moon	101108-10-25 22:18 G	38650296.25	38650296.43	38650296.65	0.0090	0.0053 *
Venus	101108-12-23 23:16 G	38650355.28	38650355.47	38650355.66	0.0090	0.0042
Venus	101109-08-06 11:45 G	38650580.83	38650580.99	38650581.18	0.0090	0.0053
Moon	101109-10-28 06:28 G	38650663.59	38650663.77	38650663.95	0.0090	0.0064
Earth	101109-10-28 08:23 G	38650663.71	38650663.85	38650664.04	0.0090	0.0069 *

Venus	101110-03-20 00:42 G	38650806.38	38650806.53	38650806.68	0.0089	0.0063
Earth	101110-10-30 19:26 G	38651031.29	38651031.31	38651031.39	0.0089	0.0088
Venus	101110-10-31 12:57 G	38651031.93	38651032.04	38651032.18	0.0089	0.0074
Venus	101111-06-14 01:11 G	38651257.51	38651257.55	38651257.65	0.0089	0.0085
Mars	101140-08-21 01:40 G	38661918.34	38661918.57	38661918.85	0.0088	0.0050
Mars	101142-07-16 14:23 G	38662612.87	38662613.10	38662613.38	0.0088	0.0051
Mercury	101158-02-15 05:16 G	38668305.69	38668305.72	38668305.76	0.0088	0.0084
Mercury	101158-05-14 06:42 G	38668393.72	38668393.78	38668393.84	0.0088	0.0077
Mercury	101158-08-10 07:40 G	38668481.75	38668481.82	38668481.91	0.0088	0.0071
Mercury	101158-11-06 08:52 G	38668569.79	38668569.87	38668569.97	0.0088	0.0064
Mercury	101159-02-02 10:18 G	38668657.84	38668657.93	38668658.04	0.0088	0.0057
Mercury	101159-05-01 11:30 G	38668745.88	38668745.98	38668746.09	0.0088	0.0050
Mercury	101159-07-28 12:57 G	38668833.92	38668834.04	38668834.15	0.0088	0.0043
Mercury	101159-10-24 14:09 G	38668921.97	38668922.09	38668922.21	0.0088	0.0036
Mercury	101160-01-20 15:21 G	38669010.02	38669010.14	38669010.27	0.0088	0.0029
Mercury	101160-04-17 16:33 G	38669098.07	38669098.19	38669098.32	0.0088	0.0023
Mercury	101160-07-14 17:59 G	38669186.12	38669186.25	38669186.38	0.0088	0.0016
Mercury	101160-10-10 19:11 G	38669274.17	38669274.30	38669274.43	0.0088	0.0009
Mercury	101161-01-06 20:23 G	38669362.22	38669362.35	38669362.48	0.0088	0.0002
Mercury	101161-04-04 21:35 G	38669450.27	38669450.40	38669450.53	0.0088	0.0005
Mercury	101161-07-01 22:47 G	38669538.32	38669538.45	38669538.58	0.0088	0.0012
Mercury	101161-09-27 23:59 G	38669626.38	38669626.50	38669626.63	0.0088	0.0019
Mercury	101161-12-25 01:11 G	38669714.43	38669714.55	38669714.68	0.0088	0.0026
Mercury	101162-03-23 02:23 G	38669802.49	38669802.60	38669802.73	0.0088	0.0033
Mercury	101162-06-19 03:50 G	38669890.54	38669890.66	38669890.78	0.0088	0.0039
Mercury	101162-09-15 05:02 G	38669978.60	38669978.71	38669978.82	0.0088	0.0046
Mercury	101162-12-12 06:14 G	38670066.66	38670066.76	38670066.87	0.0088	0.0053
Mercury	101163-03-10 07:26 G	38670154.72	38670154.81	38670154.91	0.0088	0.0060
Mercury	101163-06-06 08:38 G	38670242.78	38670242.86	38670242.95	0.0088	0.0067
Mercury	101163-09-02 09:50 G	38670330.85	38670330.91	38670330.99	0.0088	0.0073

Mercury	101163-11-29 11:16 G	38670418.92	38670418.97	38670419.02	0.0088	0.0080
Mercury	101164-02-25 12:28 G	38670507.01	38670507.02	38670507.04	0.0088	0.0087
Venus	101184-04-25 03:35 G	38677871.65	38677871.65	38677871.67	0.0088	0.0088
Venus	101184-12-06 16:33 G	38678097.12	38678097.19	38678097.33	0.0088	0.0078
Earth	101185-04-12 00:28 G	38678223.39	38678223.52	38678223.68	0.0088	0.0073
Moon	101185-04-12 02:52 G	38678223.49	38678223.62	38678223.81	0.0088	0.0070 *
Venus	101185-07-20 06:28 G	38678322.64	38678322.77	38678322.92	0.0088	0.0067
Venus	101186-03-02 19:40 G	38678548.17	38678548.32	38678548.52	0.0088	0.0057
Moon	101186-04-14 10:47 G	38678590.77	38678590.95	38678591.15	0.0088	0.0057
Earth	101186-04-14 12:28 G	38678590.83	38678591.02	38678591.24	0.0088	0.0054 *
Venus	101186-10-14 09:35 G	38678773.71	38678773.90	38678774.09	0.0088	0.0046
Earth	101187-04-17 00:42 G	38678958.29	38678958.53	38678958.77	0.0088	0.0035
Moon	101187-04-17 01:11 G	38678958.31	38678958.55	38678958.82	0.0088	0.0032 *
Venus	101187-05-27 22:47 G	38678999.26	38678999.45	38678999.67	0.0088	0.0036
Venus	101188-01-08 12:28 G	38679224.81	38679225.02	38679225.24	0.0088	0.0025
Earth	101188-04-18 12:42 G	38679325.77	38679326.03	38679326.29	0.0088	0.0016
Moon	101188-04-18 13:26 G	38679325.83	38679326.06	38679326.32	0.0088	0.0020 *
Venus	101188-08-21 01:54 G	38679450.36	38679450.58	38679450.81	0.0088	0.0015
Venus	101189-04-03 15:21 G	38679675.92	38679676.14	38679676.37	0.0088	0.0005
Moon	101189-04-20 23:02 G	38679693.19	38679693.46	38679693.73	0.0088	0.0006
Earth	101189-04-21 00:57 G	38679693.28	38679693.54	38679693.80	0.0088	0.0003 *
Venus	101189-11-15 04:47 G	38679901.48	38679901.70	38679901.93	0.0088	0.0007
Earth	101190-04-23 12:42 G	38680060.79	38680061.03	38680061.29	0.0088	0.0022
Moon	101190-04-23 15:35 G	38680060.90	38680061.15	38680061.40	0.0088	0.0018 *
Venus	101190-06-28 18:14 G	38680127.04	38680127.26	38680127.48	0.0088	0.0017
Venus	101191-02-09 07:40 G	38680352.62	38680352.82	38680353.04	0.0088	0.0028
Moon	101191-04-25 21:06 G	38680428.16	38680428.38	38680428.62	0.0088	0.0044
Earth	101191-04-26 00:42 G	38680428.31	38680428.53	38680428.77	0.0088	0.0041 *
Venus	101191-09-22 21:06 G	38680578.18	38680578.38	38680578.59	0.0088	0.0038
Earth	101192-04-27 12:28 G	38680795.85	38680796.02	38680796.24	0.0088	0.0060

Moon	101192-04-27 16:04 G	38680795.99	38680796.17	38680796.39	0.0088	0.0056 *
Venus	101192-05-05 10:33 G	38680803.76	38680803.94	38680804.13	0.0088	0.0048
Venus	101192-12-16 23:30 G	38681029.33	38681029.48	38681029.67	0.0088	0.0059
Moon	101193-04-29 20:52 G	38681163.32	38681163.37	38681163.49	0.0088	0.0083
Earth	101193-04-30 00:28 G	38681163.44	38681163.52	38681163.67	0.0088	0.0079 *
Venus	101193-07-30 13:11 G	38681254.92	38681255.05	38681255.19	0.0088	0.0069
Venus	101194-03-13 02:09 G	38681480.53	38681480.59	38681480.71	0.0088	0.0080
Mars	101224-06-20 05:30 G	38692537.45	38692537.73	38692538.04	0.0089	0.0030
Mars	101226-05-16 05:02 G	38693232.57	38693232.71	38693232.92	0.0089	0.0074
Mercury	101242-04-20 02:09 G	38699050.51	38699050.59	38699050.67	0.0090	0.0081
Mercury	101242-07-17 05:30 G	38699138.63	38699138.73	38699138.87	0.0090	0.0071
Mercury	101242-10-13 09:21 G	38699226.76	38699226.89	38699227.06	0.0090	0.0060
Mercury	101243-01-09 13:11 G	38699314.90	38699315.05	38699315.23	0.0090	0.0049
Mercury	101243-04-07 17:16 G	38699403.05	38699403.22	38699403.41	0.0090	0.0038
Mercury	101243-07-04 21:06 G	38699491.20	38699491.38	38699491.58	0.0090	0.0027
Mercury	101243-10-01 00:57 G	38699579.35	38699579.54	38699579.74	0.0090	0.0016
Mercury	101243-12-28 04:47 G	38699667.51	38699667.70	38699667.90	0.0090	0.0006
Mercury	101244-03-25 08:38 G	38699755.67	38699755.86	38699756.06	0.0090	0.0006
Mercury	101244-06-21 12:28 G	38699843.83	38699844.02	38699844.22	0.0090	0.0017
Mercury	101244-09-17 16:18 G	38699932.00	38699932.18	38699932.37	0.0090	0.0028
Mercury	101244-12-14 20:09 G	38700020.17	38700020.34	38700020.52	0.0090	0.0039
Mercury	101245-03-12 23:45 G	38700108.34	38700108.49	38700108.67	0.0090	0.0050
Mercury	101245-06-09 03:35 G	38700196.52	38700196.65	38700196.81	0.0090	0.0061
Mercury	101245-09-05 07:11 G	38700284.70	38700284.80	38700284.94	0.0090	0.0072
Mercury	101245-12-02 11:02 G	38700372.91	38700372.96	38700373.06	0.0090	0.0083
Venus	101266-06-11 13:11 G	38707868.96	38707869.05	38707869.15	0.0090	0.0080
Earth	101266-10-12 06:57 G	38707991.66	38707991.79	38707991.93	0.0090	0.0076
Moon	101266-10-12 10:04 G	38707991.81	38707991.92	38707992.06	0.0090	0.0078 *
Venus	101267-01-23 01:40 G	38708094.45	38708094.57	38708094.72	0.0090	0.0070
Venus	101267-09-05 14:23 G	38708319.95	38708320.10	38708320.27	0.0090	0.0059

Moon	101267-10-14 15:21 G	38708358.96	38708359.14	38708359.35	0.0090	0.0055
Earth	101267-10-14 18:14 G	38708359.08	38708359.26	38708359.47	0.0090	0.0057 *
Venus	101268-04-18 02:52 G	38708545.45	38708545.62	38708545.82	0.0090	0.0049
Earth	101268-10-16 05:45 G	38708726.51	38708726.74	38708726.98	0.0090	0.0037
Moon	101268-10-16 07:26 G	38708726.57	38708726.81	38708727.04	0.0090	0.0038 *
Venus	101268-11-29 15:35 G	38708770.96	38708771.15	38708771.35	0.0090	0.0038
Venus	101269-07-13 04:18 G	38708996.48	38708996.68	38708996.89	0.0090	0.0027
Moon	101269-10-18 16:18 G	38709093.95	38709094.18	38709094.43	0.0090	0.0016
Earth	101269-10-18 16:47 G	38709093.96	38709094.20	38709094.46	0.0090	0.0018 *
Venus	101270-02-23 17:02 G	38709222.00	38709222.21	38709222.42	0.0090	0.0016
Venus	101270-10-07 05:30 G	38709447.52	38709447.73	38709447.95	0.0090	0.0005
Moon	101270-10-21 03:50 G	38709461.40	38709461.66	38709461.92	0.0090	0.0001
Earth	101270-10-21 04:18 G	38709461.43	38709461.68	38709461.94	0.0090	0.0003 *
Venus	101271-05-20 17:59 G	38709673.04	38709673.25	38709673.47	0.0090	0.0005
Earth	101271-10-23 15:35 G	38709828.90	38709829.15	38709829.40	0.0090	0.0022
Moon	101271-10-23 17:30 G	38709829.00	38709829.23	38709829.48	0.0090	0.0024 *
Venus	101272-01-01 06:28 G	38709898.56	38709898.77	38709898.99	0.0090	0.0016
Venus	101272-08-13 19:11 G	38710124.10	38710124.30	38710124.51	0.0090	0.0027
Moon	101272-10-24 23:45 G	38710196.27	38710196.49	38710196.73	0.0090	0.0040
Earth	101272-10-25 02:23 G	38710196.39	38710196.60	38710196.84	0.0090	0.0042 *
Venus	101273-03-27 07:26 G	38710349.63	38710349.81	38710350.02	0.0090	0.0038
Earth	101273-10-27 13:26 G	38710563.89	38710564.06	38710564.26	0.0090	0.0061
Moon	101273-10-27 16:47 G	38710564.04	38710564.20	38710564.39	0.0090	0.0064 *
Venus	101273-11-07 20:23 G	38710575.17	38710575.35	38710575.53	0.0090	0.0048
Venus	101274-06-21 08:38 G	38710800.71	38710800.86	38710801.03	0.0090	0.0059
Moon	101274-10-29 21:06 G	38710931.28	38710931.38	38710931.52	0.0090	0.0079
Earth	101274-10-30 00:28 G	38710931.44	38710931.52	38710931.66	0.0090	0.0081 *
Venus	101275-02-01 21:06 G	38711026.26	38711026.38	38711026.53	0.0090	0.0070
Venus	101275-09-15 10:04 G	38711251.83	38711251.92	38711252.02	0.0089	0.0080
Mars	101304-04-05 16:47 G	38721681.14	38721681.20	38721681.28	0.0088	0.0086

Mars	101306-03-01 02:52 G	38722375.32	38722375.62	38722375.93	0.0088	0.0013
Mercury	101322-11-13 04:33 G	38728476.66	38728476.69	38728476.74	0.0088	0.0083
Mercury	101323-02-09 05:45 G	38728564.69	38728564.74	38728564.81	0.0088	0.0076
Mercury	101323-05-08 07:11 G	38728652.72	38728652.80	38728652.88	0.0088	0.0069
Mercury	101323-08-04 08:23 G	38728740.76	38728740.85	38728740.95	0.0088	0.0062
Mercury	101323-10-31 09:35 G	38728828.81	38728828.90	38728829.01	0.0088	0.0055
Mercury	101324-01-27 10:47 G	38728916.85	38728916.95	38728917.07	0.0088	0.0049
Mercury	101324-04-24 12:14 G	38729004.90	38729005.01	38729005.13	0.0088	0.0042
Mercury	101324-07-21 13:26 G	38729092.94	38729093.06	38729093.18	0.0088	0.0035
Mercury	101324-10-17 14:38 G	38729180.99	38729181.11	38729181.24	0.0088	0.0028
Mercury	101325-01-13 15:50 G	38729269.04	38729269.16	38729269.29	0.0088	0.0022
Mercury	101325-04-11 17:02 G	38729357.09	38729357.21	38729357.35	0.0088	0.0015
Mercury	101325-07-08 18:28 G	38729445.14	38729445.27	38729445.40	0.0088	0.0008
Mercury	101325-10-04 19:40 G	38729533.19	38729533.32	38729533.45	0.0088	0.0001
Mercury	101325-12-31 20:52 G	38729621.24	38729621.37	38729621.50	0.0088	0.0006
Mercury	101326-03-29 22:04 G	38729709.29	38729709.42	38729709.55	0.0088	0.0013
Mercury	101326-06-25 23:16 G	38729797.35	38729797.47	38729797.60	0.0088	0.0020
Mercury	101326-09-22 00:28 G	38729885.40	38729885.52	38729885.65	0.0088	0.0027
Mercury	101326-12-19 01:40 G	38729973.46	38729973.57	38729973.70	0.0088	0.0034
Mercury	101327-03-17 02:52 G	38730061.51	38730061.62	38730061.75	0.0088	0.0041
Mercury	101327-06-13 04:18 G	38730149.57	38730149.68	38730149.79	0.0088	0.0047
Mercury	101327-09-09 05:30 G	38730237.63	38730237.73	38730237.84	0.0088	0.0054
Mercury	101327-12-06 06:42 G	38730325.69	38730325.78	38730325.88	0.0088	0.0061
Mercury	101328-03-03 07:54 G	38730413.75	38730413.83	38730413.92	0.0088	0.0068
Mercury	101328-05-30 09:06 G	38730501.82	38730501.88	38730501.96	0.0088	0.0075
Mercury	101328-08-26 10:18 G	38730589.89	38730589.93	38730589.99	0.0088	0.0081
Venus	101349-03-11 00:57 G	38738091.47	38738091.54	38738091.64	0.0088	0.0081
Moon	101349-04-12 04:33 G	38738123.59	38738123.69	38738123.85	0.0088	0.0076
Earth	101349-04-12 05:45 G	38738123.66	38738123.74	38738123.88	0.0088	0.0080 *
Venus	101349-10-22 14:09 G	38738316.98	38738317.09	38738317.25	0.0088	0.0071

Earth	101350-04-14 17:45 G	38738491.08	38738491.24	38738491.45	0.0088	0.0061
Moon	101350-04-14 17:59 G	38738491.09	38738491.25	38738491.46	0.0088	0.0064 *
Venus	101350-06-05 03:50 G	38738542.51	38738542.66	38738542.84	0.0088	0.0060
Venus	101351-01-16 17:16 G	38738768.05	38738768.22	38738768.42	0.0088	0.0050
Earth	101351-04-17 05:59 G	38738858.53	38738858.75	38738858.99	0.0088	0.0042
Moon	101351-04-17 06:28 G	38738858.56	38738858.77	38738859.02	0.0088	0.0039 *
Venus	101351-08-30 06:57 G	38738993.59	38738993.79	38738994.00	0.0088	0.0039
Venus	101352-04-11 20:09 G	38739219.14	38739219.34	38739219.57	0.0088	0.0029
Moon	101352-04-18 15:35 G	38739225.90	38739226.15	38739226.41	0.0088	0.0027
Earth	101352-04-18 17:59 G	38739226.01	38739226.25	38739226.51	0.0088	0.0023 *
Venus	101352-11-23 09:35 G	38739444.69	38739444.90	38739445.13	0.0088	0.0019
Earth	101353-04-21 06:14 G	38739593.50	38739593.76	38739594.02	0.0088	0.0004
Moon	101353-04-21 09:06 G	38739593.63	38739593.88	38739594.14	0.0088	0.0002 *
Venus	101353-07-06 23:16 G	38739670.25	38739670.47	38739670.70	0.0088	0.0008
Venus	101354-02-17 12:57 G	38739895.81	38739896.04	38739896.26	0.0088	0.0003
Moon	101354-04-23 14:38 G	38739960.86	38739961.11	38739961.38	0.0088	0.0012
Earth	101354-04-23 17:59 G	38739961.01	38739961.25	38739961.52	0.0088	0.0016 *
Venus	101354-10-01 02:09 G	38740121.38	38740121.59	38740121.82	0.0088	0.0014
Earth	101355-04-26 06:14 G	38740328.53	38740328.76	38740329.01	0.0088	0.0034
Moon	101355-04-26 09:50 G	38740328.69	38740328.91	38740329.16	0.0088	0.0038 *
Venus	101355-05-14 15:35 G	38740346.94	38740347.15	38740347.38	0.0088	0.0024
Venus	101355-12-26 04:47 G	38740572.51	38740572.70	38740572.93	0.0088	0.0035
Moon	101356-04-27 15:21 G	38740695.94	38740696.14	38740696.36	0.0088	0.0050
Earth	101356-04-27 18:28 G	38740696.07	38740696.27	38740696.49	0.0088	0.0053 *
Venus	101356-08-07 18:28 G	38740798.09	38740798.27	38740798.47	0.0088	0.0045
Venus	101357-03-21 08:09 G	38741023.67	38741023.84	38741024.02	0.0088	0.0055
Earth	101357-04-30 06:28 G	38741063.63	38741063.77	38741063.93	0.0088	0.0072
Moon	101357-04-30 08:52 G	38741063.76	38741063.87	38741064.04	0.0088	0.0075 *
Venus	101357-11-01 21:06 G	38741249.25	38741249.38	38741249.55	0.0088	0.0066
Venus	101358-06-15 10:47 G	38741474.85	38741474.95	38741475.07	0.0088	0.0076



Venus	101359-01-27 00:28 G	38741700.48	38741700.52	38741700.56	0.0088	0.0086
Mars	101388-02-03 07:40 G	38752299.65	38752299.82	38752300.04	0.0089	0.0070
Mars	101389-12-29 10:33 G	38752994.67	38752994.94	38752995.25	0.0089	0.0035
Mercury	101407-01-16 22:18 G	38759221.37	38759221.43	38759221.54	0.0090	0.0081
Mercury	101407-04-15 02:23 G	38759309.49	38759309.60	38759309.74	0.0090	0.0070
Mercury	101407-07-12 06:14 G	38759397.63	38759397.76	38759397.92	0.0090	0.0059
Mercury	101407-10-08 10:04 G	38759485.77	38759485.92	38759486.10	0.0090	0.0048
Mercury	101408-01-04 14:09 G	38759573.91	38759574.09	38759574.27	0.0090	0.0037
Mercury	101408-04-01 17:59 G	38759662.06	38759662.25	38759662.44	0.0090	0.0026
Mercury	101408-06-28 21:50 G	38759750.22	38759750.41	38759750.61	0.0090	0.0015
Mercury	101408-09-25 01:40 G	38759838.37	38759838.57	38759838.77	0.0090	0.0004
Mercury	101408-12-22 05:30 G	38759926.53	38759926.73	38759926.93	0.0090	0.0007
Mercury	101409-03-20 09:21 G	38760014.70	38760014.89	38760015.08	0.0090	0.0018
Mercury	101409-06-16 12:57 G	38760102.86	38760103.04	38760103.24	0.0090	0.0029
Mercury	101409-09-12 16:47 G	38760191.03	38760191.20	38760191.39	0.0090	0.0040
Mercury	101409-12-09 20:23 G	38760279.21	38760279.35	38760279.53	0.0090	0.0051
Mercury	101410-03-08 00:14 G	38760367.39	38760367.51	38760367.67	0.0090	0.0062
Mercury	101410-06-04 04:33 G	38760455.57	38760455.69	38760455.80	0.0090	0.0072
Mercury	101410-08-31 08:09 G	38760543.78	38760543.84	38760543.92	0.0090	0.0083
Venus	101430-09-14 21:50 G	38767863.34	38767863.41	38767863.48	0.0090	0.0084
Moon	101430-10-13 08:52 G	38767891.86	38767891.87	38767891.94	0.0090	0.0089
Earth	101430-10-13 11:30 G	38767891.91	38767891.98	38767892.08	0.0090	0.0084 *
Venus	101431-04-28 10:04 G	38768088.82	38768088.92	38768089.06	0.0090	0.0074
Earth	101431-10-15 22:47 G	38768259.30	38768259.45	38768259.65	0.0090	0.0065
Moon	101431-10-16 00:57 G	38768259.36	38768259.54	38768259.75	0.0090	0.0060 *
Venus	101431-12-09 22:47 G	38768314.31	38768314.45	38768314.62	0.0090	0.0063
Venus	101432-07-22 11:30 G	38768539.82	38768539.98	38768540.17	0.0090	0.0053
Earth	101432-10-17 10:33 G	38768626.73	38768626.94	38768627.17	0.0090	0.0045
Moon	101432-10-17 10:18 G	38768626.75	38768626.93	38768627.16	0.0090	0.0050 *
Venus	101433-03-05 00:14 G	38768765.33	38768765.51	38768765.71	0.0090	0.0042

Venus	101433-10-16 12:57 G	38768990.84	38768991.04	38768991.25	0.0090	0.0031
Moon	101433-10-19 21:06 G	38768994.13	38768994.38	38768994.64	0.0090	0.0021
Earth	101433-10-19 22:18 G	38768994.19	38768994.43	38768994.67	0.0090	0.0025 *
Venus	101434-05-30 01:26 G	38769216.36	38769216.56	38769216.78	0.0090	0.0020
Earth	101434-10-22 09:35 G	38769361.65	38769361.90	38769362.16	0.0090	0.0005
Moon	101434-10-22 11:30 G	38769361.73	38769361.98	38769362.22	0.0090	0.0010 *
Venus	101435-01-10 14:09 G	38769441.87	38769442.09	38769442.30	0.0090	0.0010
Venus	101435-08-24 02:52 G	38769667.40	38769667.62	38769667.83	0.0090	0.0001
Moon	101435-10-24 17:16 G	38769728.98	38769729.22	38769729.49	0.0090	0.0020
Earth	101435-10-24 20:38 G	38769729.12	38769729.36	38769729.62	0.0090	0.0015 *
Venus	101436-04-05 15:21 G	38769892.93	38769893.14	38769893.35	0.0090	0.0012
Earth	101436-10-26 07:26 G	38770096.60	38770096.81	38770097.07	0.0090	0.0035
Moon	101436-10-26 11:02 G	38770096.73	38770096.96	38770097.21	0.0090	0.0030 *
Venus	101436-11-17 03:35 G	38770118.45	38770118.65	38770118.87	0.0090	0.0023
Venus	101437-06-30 16:04 G	38770343.98	38770344.17	38770344.38	0.0090	0.0034
Moon	101437-10-28 15:35 G	38770463.96	38770464.15	38770464.34	0.0090	0.0058
Earth	101437-10-28 18:42 G	38770464.10	38770464.28	38770464.50	0.0090	0.0054 *
Venus	101438-02-11 04:47 G	38770569.52	38770569.70	38770569.90	0.0090	0.0044
Venus	101438-09-24 17:16 G	38770795.06	38770795.22	38770795.40	0.0090	0.0055
Earth	101438-10-31 06:14 G	38770831.62	38770831.76	38770831.91	0.0090	0.0073
Moon	101438-10-31 08:52 G	38770831.73	38770831.87	38770832.06	0.0090	0.0069 *
Venus	101439-05-08 05:59 G	38771020.61	38771020.75	38771020.90	0.0090	0.0065
Venus	101439-12-19 18:14 G	38771246.16	38771246.26	38771246.39	0.0090	0.0076
Venus	101440-08-01 06:42 G	38771471.75	38771471.78	38771471.86	0.0090	0.0087
Jupiter	101456-12-17 21:06 G	38777453.89	38777454.38	38777454.93	0.0089	0.0016
Mars	101469-10-14 17:45 G	38782137.96	38782138.24	38782138.56	0.0088	0.0025
Mars	101471-09-09 04:33 G	38782832.54	38782832.69	38782832.86	0.0088	0.0075
Mercury	101487-08-11 03:35 G	38788647.62	38788647.65	38788647.71	0.0088	0.0082
Mercury	101487-11-07 05:02 G	38788735.65	38788735.71	38788735.78	0.0088	0.0075
Mercury	101488-02-03 06:14 G	38788823.69	38788823.76	38788823.85	0.0088	0.0068

Mercury	101488-05-01 07:40 G	38788911.73	38788911.82	38788911.91	0.0088	0.0061
Mercury	101488-07-28 08:38 G	38788999.77	38788999.86	38788999.98	0.0088	0.0055
Mercury	101488-10-24 10:04 G	38789087.82	38789087.92	38789088.04	0.0088	0.0048
Mercury	101489-01-20 11:16 G	38789175.86	38789175.97	38789176.09	0.0088	0.0041
Mercury	101489-04-18 12:42 G	38789263.91	38789264.03	38789264.15	0.0088	0.0034
Mercury	101489-07-15 13:54 G	38789351.96	38789352.08	38789352.21	0.0088	0.0027
Mercury	101489-10-11 15:06 G	38789440.01	38789440.13	38789440.26	0.0088	0.0020
Mercury	101490-01-07 16:18 G	38789528.05	38789528.18	38789528.32	0.0088	0.0014
Mercury	101490-04-05 17:45 G	38789616.10	38789616.24	38789616.37	0.0088	0.0007
Mercury	101490-07-02 18:57 G	38789704.16	38789704.29	38789704.42	0.0088	0.0002
Mercury	101490-09-28 20:09 G	38789792.21	38789792.34	38789792.47	0.0088	0.0007
Mercury	101490-12-25 21:21 G	38789880.26	38789880.39	38789880.52	0.0088	0.0014
Mercury	101491-03-23 22:33 G	38789968.31	38789968.44	38789968.57	0.0088	0.0021
Mercury	101491-06-19 23:45 G	38790056.37	38790056.49	38790056.62	0.0088	0.0028
Mercury	101491-09-16 00:57 G	38790144.42	38790144.54	38790144.67	0.0088	0.0034
Mercury	101491-12-13 02:09 G	38790232.48	38790232.59	38790232.71	0.0088	0.0041
Mercury	101492-03-10 03:35 G	38790320.54	38790320.65	38790320.76	0.0088	0.0048
Mercury	101492-06-06 04:33 G	38790408.60	38790408.69	38790408.80	0.0088	0.0055
Mercury	101492-09-02 05:45 G	38790496.66	38790496.74	38790496.84	0.0088	0.0062
Mercury	101492-11-29 06:57 G	38790584.72	38790584.79	38790584.88	0.0088	0.0069
Mercury	101493-02-25 08:09 G	38790672.79	38790672.84	38790672.92	0.0088	0.0076
Mercury	101493-05-24 09:50 G	38790760.86	38790760.91	38790760.95	0.0088	0.0082
Earth	101513-04-13 11:59 G	38798023.97	38798024.00	38798024.07	0.0088	0.0086
Venus	101513-06-14 09:06 G	38798085.83	38798085.88	38798085.96	0.0088	0.0084
Venus	101514-01-25 22:33 G	38798311.34	38798311.44	38798311.58	0.0088	0.0074
Earth	101514-04-15 23:59 G	38798391.34	38798391.50	38798391.67	0.0088	0.0067
Moon	101514-04-16 01:26 G	38798391.40	38798391.56	38798391.74	0.0088	0.0065 *
Venus	101514-09-08 11:45 G	38798536.86	38798536.99	38798537.17	0.0088	0.0064
Moon	101515-04-18 09:35 G	38798758.69	38798758.90	38798759.13	0.0088	0.0051
Earth	101515-04-18 11:30 G	38798758.78	38798758.98	38798759.22	0.0088	0.0049 *

Venus	101515-04-22 01:26 G	38798762.39	38798762.56	38798762.75	0.0088	0.0053
Venus	101515-12-03 14:38 G	38798987.93	38798988.11	38798988.32	0.0088	0.0043
Earth	101516-04-19 23:30 G	38799126.25	38799126.48	38799126.74	0.0088	0.0030
Moon	101516-04-20 02:52 G	38799126.39	38799126.62	38799126.88	0.0088	0.0027 *
Venus	101516-07-16 04:04 G	38799213.48	38799213.67	38799213.89	0.0088	0.0033
Venus	101517-02-26 17:45 G	38799439.03	38799439.24	38799439.47	0.0088	0.0022
Moon	101517-04-22 08:09 G	38799493.58	38799493.84	38799494.10	0.0088	0.0013
Earth	101517-04-22 11:30 G	38799493.73	38799493.98	38799494.25	0.0088	0.0011 *
Venus	101517-10-10 07:11 G	38799664.58	38799664.80	38799665.03	0.0088	0.0012
Earth	101518-04-24 23:30 G	38799861.22	38799861.48	38799861.74	0.0088	0.0009
Moon	101518-04-25 03:06 G	38799861.38	38799861.63	38799861.90	0.0088	0.0012 *
Venus	101518-05-23 20:38 G	38799890.14	38799890.36	38799890.59	0.0088	0.0002
Venus	101519-01-04 10:04 G	38800115.70	38800115.92	38800116.15	0.0088	0.0010
Moon	101519-04-27 08:09 G	38800228.61	38800228.84	38800229.10	0.0088	0.0025
Earth	101519-04-27 11:30 G	38800228.74	38800228.98	38800229.24	0.0088	0.0028 *
Venus	101519-08-17 23:30 G	38800341.27	38800341.48	38800341.71	0.0088	0.0020
Venus	101520-03-30 12:57 G	38800566.84	38800567.04	38800567.26	0.0088	0.0031
Earth	101520-04-28 23:16 G	38800596.27	38800596.47	38800596.71	0.0088	0.0047
Moon	101520-04-29 01:26 G	38800596.36	38800596.56	38800596.80	0.0088	0.0050 *
Venus	101520-11-11 02:38 G	38800792.41	38800792.61	38800792.81	0.0088	0.0041
Moon	101521-05-01 10:18 G	38800963.76	38800963.93	38800964.11	0.0088	0.0062
Earth	101521-05-01 11:30 G	38800963.83	38800963.98	38800964.17	0.0088	0.0066 *
Venus	101521-06-24 15:35 G	38801017.99	38801018.15	38801018.35	0.0088	0.0052
Venus	101522-02-05 05:16 G	38801243.58	38801243.72	38801243.89	0.0088	0.0062
Earth	101522-05-03 23:16 G	38801331.44	38801331.47	38801331.57	0.0088	0.0085
Moon	101522-05-03 23:45 G	38801331.49	38801331.49	38801331.51	0.0088	0.0088 *
Venus	101522-09-18 18:28 G	38801469.17	38801469.27	38801469.42	0.0088	0.0073
Venus	101523-05-02 07:54 G	38801694.78	38801694.83	38801694.92	0.0088	0.0083
Mars	101553-08-14 13:40 G	38812756.75	38812757.07	38812757.39	0.0089	0.0004
Mercury	101571-10-14 19:11 G	38819392.24	38819392.30	38819392.42	0.0090	0.0080

Mercury	101572-01-10 23:16 G	38819480.36	38819480.47	38819480.61	0.0090	0.0069
Mercury	101572-04-08 03:06 G	38819568.50	38819568.63	38819568.80	0.0090	0.0058
Mercury	101572-07-05 06:57 G	38819656.64	38819656.79	38819656.97	0.0090	0.0047
Mercury	101572-10-01 11:02 G	38819744.78	38819744.96	38819745.15	0.0090	0.0036
Mercury	101572-12-28 14:52 G	38819832.94	38819833.12	38819833.31	0.0090	0.0025
Mercury	101573-03-26 18:42 G	38819921.09	38819921.28	38819921.48	0.0090	0.0014
Mercury	101573-06-22 22:33 G	38820009.25	38820009.44	38820009.64	0.0090	0.0004
Mercury	101573-09-19 02:23 G	38820097.41	38820097.60	38820097.80	0.0090	0.0008
Mercury	101573-12-16 06:14 G	38820185.57	38820185.76	38820185.96	0.0090	0.0019
Mercury	101574-03-14 10:04 G	38820273.74	38820273.92	38820274.11	0.0090	0.0030
Mercury	101574-06-10 13:54 G	38820361.91	38820362.08	38820362.26	0.0090	0.0041
Mercury	101574-09-06 17:30 G	38820450.08	38820450.23	38820450.40	0.0090	0.0052
Mercury	101574-12-03 21:21 G	38820538.26	38820538.39	38820538.54	0.0090	0.0063
Mercury	101575-03-02 00:57 G	38820626.45	38820626.54	38820626.68	0.0090	0.0074
Mercury	101575-05-29 04:47 G	38820714.66	38820714.70	38820714.79	0.0090	0.0085
Venus	101594-12-18 05:30 G	38827857.72	38827857.73	38827857.79	0.0090	0.0089
Venus	101595-07-31 18:28 G	38828083.18	38828083.27	38828083.39	0.0090	0.0078
Moon	101595-10-16 03:06 G	38828159.51	38828159.63	38828159.79	0.0090	0.0074
Earth	101595-10-16 03:06 G	38828159.51	38828159.63	38828159.81	0.0090	0.0073 *
Venus	101596-03-13 06:57 G	38828308.67	38828308.79	38828308.96	0.0090	0.0068
Moon	101596-10-17 13:40 G	38828526.87	38828527.07	38828527.30	0.0090	0.0052
Earth	101596-10-17 15:06 G	38828526.94	38828527.13	38828527.35	0.0090	0.0053 *
Venus	101596-10-24 19:40 G	38828534.17	38828534.32	38828534.51	0.0090	0.0057
Venus	101597-06-07 08:38 G	38828759.68	38828759.86	38828760.05	0.0090	0.0046
Earth	101597-10-20 02:52 G	38828894.39	38828894.62	38828894.86	0.0090	0.0033
Moon	101597-10-20 05:02 G	38828894.49	38828894.71	38828894.95	0.0090	0.0034 *
Venus	101598-01-18 20:52 G	38828985.19	38828985.37	38828985.59	0.0090	0.0036
Venus	101598-09-01 09:50 G	38829210.71	38829210.91	38829211.13	0.0090	0.0025
Moon	101598-10-22 11:30 G	38829261.72	38829261.98	38829262.24	0.0090	0.0012
Earth	101598-10-22 14:09 G	38829261.85	38829262.09	38829262.36	0.0090	0.0014 *

Venus	101599-04-14 22:33 G	38829436.23	38829436.44	38829436.66	0.0090	0.0014
Earth	101599-10-25 01:40 G	38829629.32	38829629.57	38829629.83	0.0090	0.0007
Moon	101599-10-25 05:30 G	38829629.48	38829629.73	38829629.98	0.0090	0.0005 *
Venus	101599-11-26 11:16 G	38829661.75	38829661.97	38829662.18	0.0090	0.0003
Venus	101600-07-08 23:45 G	38829887.28	38829887.49	38829887.71	0.0090	0.0008
Moon	101600-10-26 09:35 G	38829996.67	38829996.90	38829997.15	0.0090	0.0028
Earth	101600-10-26 12:57 G	38829996.81	38829997.04	38829997.29	0.0090	0.0027 *
Venus	101601-02-19 12:14 G	38830112.81	38830113.01	38830113.23	0.0090	0.0019
Venus	101601-10-03 00:57 G	38830338.34	38830338.54	38830338.75	0.0090	0.0029
Earth	101601-10-28 23:59 G	38830364.30	38830364.50	38830364.73	0.0090	0.0047
Moon	101601-10-29 03:35 G	38830364.43	38830364.65	38830364.88	0.0090	0.0044 *
Venus	101602-05-16 13:26 G	38830563.87	38830564.06	38830564.26	0.0090	0.0040
Moon	101602-10-31 09:06 G	38830731.74	38830731.88	38830732.06	0.0090	0.0068
Earth	101602-10-31 11:16 G	38830731.82	38830731.97	38830732.16	0.0090	0.0066 *
Venus	101602-12-28 01:40 G	38830789.41	38830789.57	38830789.77	0.0090	0.0051
Venus	101603-08-10 14:38 G	38831014.96	38831015.11	38831015.27	0.0090	0.0061
Earth	101603-11-02 22:04 G	38831099.37	38831099.42	38831099.52	0.0090	0.0086
Moon	101603-11-02 23:02 G	38831099.39	38831099.46	38831099.58	0.0090	0.0084 *
Venus	101604-03-23 02:52 G	38831240.51	38831240.62	38831240.77	0.0090	0.0072
Venus	101604-11-03 15:50 G	38831466.08	38831466.16	38831466.25	0.0090	0.0082
Mars	101633-05-30 08:23 G	38841900.64	38841900.85	38841901.08	0.0088	0.0061
Mars	101635-04-24 17:45 G	38842594.98	38842595.24	38842595.54	0.0088	0.0038
Mercury	101652-02-10 01:54 G	38848730.57	38848730.58	38848730.59	0.0088	0.0087
Mercury	101652-05-08 02:52 G	38848818.58	38848818.62	38848818.68	0.0088	0.0081
Mercury	101652-08-04 04:18 G	38848906.62	38848906.68	38848906.76	0.0088	0.0074
Mercury	101652-10-31 05:30 G	38848994.66	38848994.73	38848994.82	0.0088	0.0067
Mercury	101653-01-27 06:57 G	38849082.70	38849082.79	38849082.89	0.0088	0.0060
Mercury	101653-04-25 08:09 G	38849170.74	38849170.84	38849170.95	0.0088	0.0053
Mercury	101653-07-22 09:06 G	38849258.78	38849258.88	38849259.01	0.0088	0.0047
Mercury	101653-10-18 10:33 G	38849346.83	38849346.94	38849347.06	0.0088	0.0040

Mercury	101654-01-14 11:45 G	38849434.88	38849434.99	38849435.12	0.0088	0.0033
Mercury	101654-04-12 13:11 G	38849522.93	38849523.05	38849523.18	0.0088	0.0026
Mercury	101654-07-09 14:23 G	38849610.97	38849611.10	38849611.23	0.0088	0.0019
Mercury	101654-10-05 15:35 G	38849699.02	38849699.15	38849699.28	0.0088	0.0012
Mercury	101655-01-01 17:02 G	38849787.07	38849787.21	38849787.34	0.0088	0.0006
Mercury	101655-03-30 18:14 G	38849875.13	38849875.26	38849875.39	0.0088	0.0002
Mercury	101655-06-26 19:26 G	38849963.18	38849963.31	38849963.44	0.0088	0.0008
Mercury	101655-09-22 20:38 G	38850051.23	38850051.36	38850051.49	0.0088	0.0015
Mercury	101655-12-19 21:50 G	38850139.28	38850139.41	38850139.54	0.0088	0.0022
Mercury	101656-03-16 23:02 G	38850227.34	38850227.46	38850227.59	0.0088	0.0029
Mercury	101656-06-13 00:14 G	38850315.39	38850315.51	38850315.63	0.0088	0.0036
Mercury	101656-09-09 01:26 G	38850403.45	38850403.56	38850403.68	0.0088	0.0042
Mercury	101656-12-06 02:52 G	38850491.51	38850491.62	38850491.73	0.0088	0.0049
Mercury	101657-03-04 04:04 G	38850579.57	38850579.67	38850579.77	0.0088	0.0056
Mercury	101657-05-31 05:02 G	38850667.63	38850667.71	38850667.81	0.0088	0.0063
Mercury	101657-08-27 06:14 G	38850755.69	38850755.76	38850755.85	0.0088	0.0070
Mercury	101657-11-23 07:26 G	38850843.76	38850843.81	38850843.89	0.0088	0.0077
Mercury	101658-02-19 08:52 G	38850931.84	38850931.87	38850931.91	0.0088	0.0083
Venus	101677-09-15 17:45 G	38858080.22	38858080.24	38858080.27	0.0088	0.0087
Moon	101678-04-15 02:52 G	38858291.48	38858291.62	38858291.81	0.0088	0.0070
Earth	101678-04-15 05:45 G	38858291.63	38858291.74	38858291.91	0.0088	0.0074 *
Venus	101678-04-29 06:57 G	38858305.70	38858305.79	38858305.91	0.0088	0.0077
Venus	101678-12-10 20:09 G	38858531.22	38858531.34	38858531.51	0.0088	0.0067
Earth	101679-04-17 17:45 G	38858659.05	38858659.24	38858659.46	0.0088	0.0055
Moon	101679-04-17 20:38 G	38858659.19	38858659.36	38858659.58	0.0088	0.0059 *
Venus	101679-07-24 09:35 G	38858756.75	38858756.90	38858757.09	0.0088	0.0057
Venus	101680-03-05 23:16 G	38858982.29	38858982.47	38858982.67	0.0088	0.0046
Moon	101680-04-19 01:54 G	38859026.35	38859026.58	38859026.84	0.0088	0.0032
Earth	101680-04-19 05:45 G	38859026.51	38859026.74	38859026.99	0.0088	0.0036 *
Venus	101680-10-17 12:28 G	38859207.83	38859208.02	38859208.24	0.0088	0.0036

Earth	101681-04-21 17:45 G	38859393.99	38859394.24	38859394.50	0.0088	0.0017
Moon	101681-04-21 21:06 G	38859394.13	38859394.38	38859394.64	0.0088	0.0021 *
Venus	101681-05-31 02:09 G	38859433.38	38859433.59	38859433.81	0.0088	0.0025
Venus	101682-01-11 15:35 G	38859658.93	38859659.15	38859659.38	0.0088	0.0015
Moon	101682-04-24 02:38 G	38859761.36	38859761.61	38859761.87	0.0088	0.0005
Earth	101682-04-24 05:45 G	38859761.48	38859761.74	38859762.00	0.0088	0.0002 *
Venus	101682-08-25 05:02 G	38859884.49	38859884.71	38859884.94	0.0088	0.0005
Venus	101683-04-07 18:28 G	38860110.05	38860110.27	38860110.50	0.0088	0.0007
Earth	101683-04-26 17:45 G	38860128.98	38860129.24	38860129.49	0.0088	0.0021
Moon	101683-04-26 19:54 G	38860129.07	38860129.33	38860129.60	0.0088	0.0018 *
Venus	101683-11-19 07:54 G	38860335.61	38860335.83	38860336.05	0.0088	0.0017
Moon	101684-04-28 04:47 G	38860496.49	38860496.70	38860496.93	0.0088	0.0044
Earth	101684-04-28 05:45 G	38860496.51	38860496.74	38860496.97	0.0088	0.0040 *
Venus	101684-07-01 21:06 G	38860561.18	38860561.38	38860561.61	0.0088	0.0028
Venus	101685-02-12 10:47 G	38860786.76	38860786.95	38860787.16	0.0088	0.0038
Moon	101685-04-30 17:45 G	38860864.03	38860864.24	38860864.45	0.0088	0.0056
Earth	101685-04-30 17:45 G	38860864.05	38860864.24	38860864.43	0.0088	0.0059 *
Venus	101685-09-26 00:28 G	38861012.33	38861012.52	38861012.71	0.0088	0.0048
Earth	101686-05-03 05:45 G	38861231.63	38861231.74	38861231.87	0.0088	0.0078
Moon	101686-05-03 06:42 G	38861231.72	38861231.78	38861231.90	0.0088	0.0082 *
Venus	101686-05-09 13:26 G	38861237.91	38861238.06	38861238.24	0.0088	0.0059
Venus	101686-12-21 02:52 G	38861463.50	38861463.62	38861463.77	0.0088	0.0069
Venus	101687-08-03 16:04 G	38861689.10	38861689.17	38861689.29	0.0088	0.0080
Mars	101717-03-29 17:16 G	38872518.95	38872519.22	38872519.52	0.0089	0.0042
Mars	101719-02-22 20:23 G	38873214.15	38873214.35	38873214.60	0.0089	0.0062
Mercury	101736-04-14 12:42 G	38879475.02	38879475.03	38879475.07	0.0090	0.0089
Mercury	101736-07-11 16:33 G	38879563.11	38879563.19	38879563.30	0.0090	0.0078
Mercury	101736-10-07 20:38 G	38879651.23	38879651.36	38879651.49	0.0090	0.0067
Mercury	101737-01-03 23:59 G	38879739.37	38879739.50	38879739.67	0.0090	0.0057
Mercury	101737-04-02 04:04 G	38879827.51	38879827.67	38879827.85	0.0090	0.0045



Mercury	101737-06-29 07:54 G	38879915.66	38879915.83	38879916.02	0.0090	0.0035
Mercury	101737-09-25 11:45 G	38880003.81	38880003.99	38880004.19	0.0090	0.0024
Mercury	101737-12-22 15:50 G	38880091.96	38880092.16	38880092.36	0.0090	0.0013
Mercury	101738-03-20 19:40 G	38880180.12	38880180.32	38880180.52	0.0090	0.0002
Mercury	101738-06-16 23:30 G	38880268.28	38880268.48	38880268.68	0.0090	0.0009
Mercury	101738-09-13 03:06 G	38880356.45	38880356.63	38880356.83	0.0090	0.0020
Mercury	101738-12-10 07:11 G	38880444.61	38880444.80	38880444.98	0.0090	0.0031
Mercury	101739-03-08 10:47 G	38880532.79	38880532.95	38880533.13	0.0090	0.0042
Mercury	101739-06-04 14:38 G	38880620.96	38880621.11	38880621.28	0.0090	0.0053
Mercury	101739-08-31 18:28 G	38880709.14	38880709.27	38880709.42	0.0090	0.0064
Mercury	101739-11-27 22:04 G	38880797.33	38880797.42	38880797.55	0.0090	0.0075
Mercury	101740-02-24 01:54 G	38880885.54	38880885.58	38880885.65	0.0090	0.0086
Moon	101759-10-16 08:23 G	38888059.77	38888059.85	38888059.94	0.0090	0.0084
Earth	101759-10-16 09:21 G	38888059.79	38888059.89	38888060.02	0.0090	0.0080 *
Venus	101759-11-03 03:21 G	38888077.58	38888077.64	38888077.75	0.0090	0.0082
Venus	101760-06-15 16:18 G	38888303.06	38888303.18	38888303.31	0.0090	0.0071
Earth	101760-10-17 20:38 G	38888427.19	38888427.36	38888427.57	0.0090	0.0061
Moon	101760-10-17 23:02 G	38888427.29	38888427.46	38888427.68	0.0090	0.0056 *
Venus	101761-01-27 04:33 G	38888528.55	38888528.69	38888528.87	0.0090	0.0061
Venus	101761-09-09 17:30 G	38888754.06	38888754.23	38888754.41	0.0090	0.0050
Moon	101761-10-20 04:47 G	38888794.50	38888794.70	38888794.94	0.0090	0.0046
Earth	101761-10-20 08:09 G	38888794.63	38888794.84	38888795.08	0.0090	0.0041 *
Venus	101762-04-23 05:45 G	38888979.57	38888979.74	38888979.95	0.0090	0.0040
Earth	101762-10-22 19:40 G	38889162.08	38889162.32	38889162.58	0.0090	0.0021
Moon	101762-10-22 23:16 G	38889162.22	38889162.47	38889162.72	0.0090	0.0016 *
Venus	101762-12-04 18:28 G	38889205.08	38889205.27	38889205.49	0.0090	0.0029
Venus	101763-07-18 07:26 G	38889430.60	38889430.81	38889431.02	0.0090	0.0018
Moon	101763-10-25 03:50 G	38889529.41	38889529.66	38889529.91	0.0090	0.0006
Earth	101763-10-25 07:11 G	38889529.55	38889529.80	38889530.06	0.0090	0.0002 *
Venus	101764-02-28 19:54 G	38889656.12	38889656.33	38889656.55	0.0090	0.0008

Venus	101764-10-11 08:38 G	38889881.65	38889881.86	38889882.08	0.0090	0.0004
Earth	101764-10-26 18:42 G	38889897.03	38889897.28	38889897.53	0.0090	0.0019
Moon	101764-10-26 21:06 G	38889897.14	38889897.38	38889897.64	0.0090	0.0024 *
Venus	101765-05-24 21:06 G	38890107.17	38890107.38	38890107.60	0.0090	0.0014
Moon	101765-10-29 03:35 G	38890264.44	38890264.65	38890264.89	0.0090	0.0035
Earth	101765-10-29 05:59 G	38890264.53	38890264.75	38890264.98	0.0090	0.0039 *
Venus	101766-01-05 09:50 G	38890332.70	38890332.91	38890333.12	0.0090	0.0025
Venus	101766-08-18 22:18 G	38890558.24	38890558.43	38890558.64	0.0090	0.0036
Earth	101766-10-31 16:47 G	38890632.03	38890632.20	38890632.41	0.0090	0.0059
Moon	101766-10-31 17:59 G	38890632.07	38890632.25	38890632.44	0.0090	0.0063 *
Venus	101767-04-01 10:47 G	38890783.78	38890783.95	38890784.15	0.0090	0.0046
Earth	101767-11-03 03:35 G	38890999.56	38890999.65	38890999.81	0.0090	0.0079
Moon	101767-11-03 04:47 G	38890999.57	38890999.70	38890999.84	0.0090	0.0074 *
Venus	101767-11-12 23:30 G	38891009.32	38891009.48	38891009.65	0.0090	0.0057
Venus	101768-06-25 11:45 G	38891234.86	38891234.99	38891235.15	0.0090	0.0068
Venus	101769-02-06 00:28 G	38891460.42	38891460.52	38891460.63	0.0090	0.0078
Venus	101769-09-19 12:42 G	38891686.02	38891686.03	38891686.09	0.0090	0.0089
Mars	101798-12-08 10:04 G	38902357.62	38902357.92	38902358.23	0.0088	0.0001
Mercury	101816-11-08 01:11 G	38908901.53	38908901.55	38908901.57	0.0088	0.0086
Mercury	101817-02-04 02:23 G	38908989.55	38908989.60	38908989.66	0.0088	0.0079
Mercury	101817-05-03 03:21 G	38909077.58	38909077.64	38909077.73	0.0088	0.0073
Mercury	101817-07-30 04:47 G	38909165.62	38909165.70	38909165.79	0.0088	0.0066
Mercury	101817-10-26 05:59 G	38909253.66	38909253.75	38909253.86	0.0088	0.0059
Mercury	101818-01-22 07:26 G	38909341.71	38909341.81	38909341.92	0.0088	0.0052
Mercury	101818-04-20 08:38 G	38909429.75	38909429.86	38909429.98	0.0088	0.0045
Mercury	101818-07-17 10:04 G	38909517.80	38909517.92	38909518.04	0.0088	0.0038
Mercury	101818-10-13 11:02 G	38909605.85	38909605.96	38909606.09	0.0088	0.0032
Mercury	101819-01-09 12:28 G	38909693.89	38909694.02	38909694.15	0.0088	0.0025
Mercury	101819-04-07 13:40 G	38909781.94	38909782.07	38909782.20	0.0088	0.0018
Mercury	101819-07-04 14:52 G	38909869.99	38909870.12	38909870.25	0.0088	0.0011

Mercury	101819-09-30 16:18 G	38909958.04	38909958.18	38909958.31	0.0088	0.0005
Mercury	101819-12-27 17:30 G	38910046.10	38910046.23	38910046.36	0.0088	0.0003
Mercury	101820-03-24 18:42 G	38910134.15	38910134.28	38910134.41	0.0088	0.0010
Mercury	101820-06-20 19:54 G	38910222.20	38910222.33	38910222.46	0.0088	0.0016
Mercury	101820-09-16 21:06 G	38910310.26	38910310.38	38910310.51	0.0088	0.0023
Mercury	101820-12-13 22:18 G	38910398.31	38910398.43	38910398.56	0.0088	0.0030
Mercury	101821-03-11 23:30 G	38910486.37	38910486.48	38910486.60	0.0088	0.0037
Mercury	101821-06-08 00:42 G	38910574.42	38910574.53	38910574.65	0.0088	0.0044
Mercury	101821-09-04 01:54 G	38910662.48	38910662.58	38910662.70	0.0088	0.0051
Mercury	101821-12-01 03:06 G	38910750.54	38910750.63	38910750.74	0.0088	0.0058
Mercury	101822-02-27 04:33 G	38910838.60	38910838.69	38910838.78	0.0088	0.0064
Mercury	101822-05-26 05:45 G	38910926.67	38910926.74	38910926.82	0.0088	0.0071
Mercury	101822-08-22 06:57 G	38911014.74	38911014.79	38911014.85	0.0088	0.0078
Mercury	101822-11-18 07:54 G	38911102.82	38911102.83	38911102.88	0.0088	0.0085
Earth	101842-04-16 11:30 G	38918191.91	38918191.98	38918192.12	0.0088	0.0081
Moon	101842-04-16 15:35 G	38918192.07	38918192.15	38918192.25	0.0088	0.0082 *
Venus	101842-08-02 15:21 G	38918300.05	38918300.14	38918300.23	0.0088	0.0080
Venus	101843-03-16 04:33 G	38918525.57	38918525.69	38918525.84	0.0088	0.0070
Moon	101843-04-18 20:09 G	38918559.17	38918559.34	38918559.56	0.0088	0.0060
Earth	101843-04-18 23:45 G	38918559.33	38918559.49	38918559.70	0.0088	0.0062 *
Venus	101843-10-27 17:45 G	38918751.10	38918751.24	38918751.43	0.0088	0.0060
Earth	101844-04-20 11:30 G	38918926.77	38918926.98	38918927.23	0.0088	0.0043
Moon	101844-04-20 15:06 G	38918926.93	38918927.13	38918927.38	0.0088	0.0046 *
Venus	101844-06-09 07:40 G	38918976.64	38918976.82	38918977.01	0.0088	0.0049
Venus	101845-01-20 20:52 G	38919202.18	38919202.37	38919202.59	0.0088	0.0039
Moon	101845-04-22 21:06 G	38919294.15	38919294.38	38919294.64	0.0088	0.0022
Earth	101845-04-22 23:30 G	38919294.25	38919294.48	38919294.75	0.0088	0.0024 *
Venus	101845-09-03 10:18 G	38919427.73	38919427.93	38919428.16	0.0088	0.0029
Venus	101846-04-16 23:59 G	38919653.28	38919653.50	38919653.72	0.0088	0.0018
Earth	101846-04-25 11:45 G	38919661.73	38919661.99	38919662.26	0.0088	0.0004

Moon	101846-04-25 13:54 G	38919661.81	38919662.08	38919662.34	0.0088	0.0007	*
Venus	101846-11-28 13:26 G	38919878.83	38919879.06	38919879.28	0.0088	0.0007	
Moon	101847-04-27 22:47 G	38920029.21	38920029.45	38920029.71	0.0088	0.0018	
Earth	101847-04-27 23:45 G	38920029.24	38920029.49	38920029.75	0.0088	0.0015	*
Venus	101847-07-12 02:52 G	38920104.39	38920104.62	38920104.84	0.0088	0.0003	
Venus	101848-02-22 16:18 G	38920329.96	38920330.18	38920330.41	0.0088	0.0014	
Moon	101848-04-29 10:18 G	38920396.69	38920396.93	38920397.20	0.0088	0.0032	
Earth	101848-04-29 11:16 G	38920396.75	38920396.97	38920397.23	0.0088	0.0034	*
Venus	101848-10-05 05:45 G	38920555.53	38920555.74	38920555.96	0.0088	0.0024	
Earth	101849-05-01 23:16 G	38920764.28	38920764.47	38920764.70	0.0088	0.0053	
Moon	101849-05-02 00:42 G	38920764.36	38920764.53	38920764.75	0.0088	0.0056	*
Venus	101849-05-18 18:42 G	38920781.09	38920781.28	38920781.51	0.0088	0.0035	
Venus	101849-12-30 08:23 G	38921006.67	38921006.85	38921007.05	0.0088	0.0045	
Moon	101850-05-04 08:23 G	38921131.71	38921131.85	38921132.04	0.0088	0.0069	
Earth	101850-05-04 11:16 G	38921131.85	38921131.97	38921132.14	0.0088	0.0072	*
Venus	101850-08-12 22:04 G	38921232.25	38921232.42	38921232.59	0.0088	0.0055	
Venus	101851-03-26 11:16 G	38921457.84	38921457.97	38921458.13	0.0088	0.0066	
Venus	101851-11-07 00:42 G	38921683.44	38921683.53	38921683.66	0.0088	0.0076	
Venus	101852-06-19 13:54 G	38921909.07	38921909.08	38921909.14	0.0088	0.0087	
Mars	101880-11-11 18:14 G	38932281.16	38932281.26	38932281.43	0.0089	0.0081	
Mars	101882-10-08 01:11 G	38932976.25	38932976.55	38932976.87	0.0089	0.0025	
Mercury	101901-01-11 09:50 G	38939645.89	38939645.91	38939645.99	0.0090	0.0087	
Mercury	101901-04-09 13:54 G	38939733.99	38939734.08	38939734.20	0.0090	0.0076	
Mercury	101901-07-06 17:45 G	38939822.12	38939822.24	38939822.39	0.0090	0.0065	
Mercury	101901-10-02 21:50 G	38939910.26	38939910.41	38939910.57	0.0090	0.0054	
Mercury	101901-12-30 01:40 G	38939998.40	38939998.57	38939998.75	0.0090	0.0043	
Mercury	101902-03-28 05:16 G	38940086.55	38940086.72	38940086.92	0.0090	0.0033	
Mercury	101902-06-24 09:06 G	38940174.70	38940174.88	38940175.08	0.0090	0.0022	
Mercury	101902-09-20 13:11 G	38940262.86	38940263.05	38940263.25	0.0090	0.0010	
Mercury	101902-12-17 17:02 G	38940351.01	38940351.21	38940351.41	0.0090	0.0001	

Mercury	101903-03-15 20:52 G	38940439.17	38940439.37	38940439.57	0.0090	0.0011
Mercury	101903-06-12 00:28 G	38940527.34	38940527.52	38940527.72	0.0090	0.0023
Mercury	101903-09-08 04:18 G	38940615.51	38940615.68	38940615.87	0.0090	0.0033
Mercury	101903-12-05 08:23 G	38940703.68	38940703.85	38940704.02	0.0090	0.0044
Mercury	101904-03-02 11:59 G	38940791.85	38940792.00	38940792.16	0.0090	0.0055
Mercury	101904-05-29 15:50 G	38940880.04	38940880.16	38940880.30	0.0090	0.0066
Mercury	101904-08-25 19:26 G	38940968.23	38940968.31	38940968.43	0.0090	0.0077
Mercury	101904-11-21 23:16 G	38941056.45	38941056.47	38941056.53	0.0090	0.0088
Earth	101923-10-17 15:06 G	38947960.10	38947960.13	38947960.21	0.0090	0.0088
Moon	101923-10-17 17:59 G	38947960.22	38947960.25	38947960.32	0.0090	0.0088
Venus	101924-02-06 12:28 G	38948071.99	38948072.02	38948072.11	0.0090	0.0086
Venus	101924-09-19 01:26 G	38948297.46	38948297.56	38948297.69	0.0090	0.0075
Moon	101924-10-18 23:16 G	38948327.32	38948327.47	38948327.66	0.0090	0.0068
Earth	101924-10-19 02:52 G	38948327.47	38948327.62	38948327.80	0.0090	0.0068 *
Venus	101925-05-02 14:09 G	38948522.95	38948523.09	38948523.24	0.0090	0.0064
Earth	101925-10-21 14:23 G	38948694.90	38948695.10	38948695.32	0.0090	0.0048
Moon	101925-10-21 17:45 G	38948695.04	38948695.24	38948695.47	0.0090	0.0049 *
Venus	101925-12-14 02:23 G	38948748.45	38948748.60	38948748.79	0.0090	0.0054
Venus	101926-07-27 15:21 G	38948973.96	38948974.14	38948974.34	0.0090	0.0043
Moon	101926-10-23 22:33 G	38949062.21	38949062.44	38949062.69	0.0090	0.0029
Earth	101926-10-24 01:40 G	38949062.34	38949062.57	38949062.82	0.0090	0.0028 *
Venus	101927-03-10 03:50 G	38949199.47	38949199.66	38949199.87	0.0090	0.0033
Venus	101927-10-21 16:33 G	38949424.99	38949425.19	38949425.40	0.0090	0.0022
Earth	101927-10-26 13:11 G	38949429.80	38949430.05	38949430.31	0.0090	0.0009
Moon	101927-10-26 16:04 G	38949429.91	38949430.17	38949430.43	0.0090	0.0008 *
Venus	101928-06-03 05:16 G	38949650.50	38949650.72	38949650.93	0.0090	0.0011
Moon	101928-10-27 23:45 G	38949797.25	38949797.49	38949797.73	0.0090	0.0012
Earth	101928-10-28 00:42 G	38949797.28	38949797.53	38949797.79	0.0090	0.0012 *
Venus	101929-01-14 17:45 G	38949876.03	38949876.24	38949876.46	0.0090	0.0001
Venus	101929-08-28 06:28 G	38950101.56	38950101.77	38950101.99	0.0090	0.0011

Earth	101929-10-30 11:45 G	38950164.77	38950164.99	38950165.25	0.0090	0.0032
Moon	101929-10-30 12:28 G	38950164.78	38950165.02	38950165.27	0.0090	0.0032 *
Venus	101930-04-10 18:57 G	38950327.09	38950327.29	38950327.51	0.0090	0.0021
Earth	101930-11-01 23:02 G	38950532.28	38950532.46	38950532.69	0.0090	0.0052
Moon	101930-11-01 23:59 G	38950532.32	38950532.50	38950532.72	0.0090	0.0051 *
Venus	101930-11-22 07:40 G	38950552.62	38950552.82	38950553.02	0.0090	0.0032
Venus	101931-07-05 20:09 G	38950778.16	38950778.34	38950778.54	0.0090	0.0043
Moon	101931-11-04 08:09 G	38950899.70	38950899.84	38950900.01	0.0090	0.0071
Earth	101931-11-04 10:47 G	38950899.81	38950899.95	38950900.11	0.0090	0.0071 *
Venus	101932-02-16 08:23 G	38951003.70	38951003.85	38951004.05	0.0090	0.0054
Venus	101932-09-28 21:21 G	38951229.25	38951229.39	38951229.55	0.0090	0.0064
Venus	101933-05-12 09:35 G	38951454.80	38951454.90	38951455.04	0.0090	0.0075
Venus	101933-12-23 22:18 G	38951680.38	38951680.43	38951680.51	0.0090	0.0085
Mars	101962-07-25 05:02 G	38962120.44	38962120.71	38962121.00	0.0089	0.0035
Mars	101964-06-18 11:30 G	38962814.78	38962814.98	38962815.21	0.0088	0.0063
Mercury	101981-08-06 00:14 G	38969072.49	38969072.51	38969072.55	0.0088	0.0085
Mercury	101981-11-02 01:40 G	38969160.52	38969160.57	38969160.63	0.0088	0.0078
Mercury	101982-01-29 02:52 G	38969248.55	38969248.62	38969248.70	0.0088	0.0071
Mercury	101982-04-27 04:18 G	38969336.59	38969336.68	38969336.77	0.0088	0.0064
Mercury	101982-07-24 05:16 G	38969424.63	38969424.72	38969424.83	0.0088	0.0058
Mercury	101982-10-20 06:42 G	38969512.68	38969512.78	38969512.89	0.0088	0.0051
Mercury	101983-01-16 07:54 G	38969600.72	38969600.83	38969600.95	0.0088	0.0044
Mercury	101983-04-14 09:06 G	38969688.77	38969688.88	38969689.01	0.0088	0.0037
Mercury	101983-07-11 10:33 G	38969776.82	38969776.94	38969777.06	0.0088	0.0030
Mercury	101983-10-07 11:45 G	38969864.86	38969864.99	38969865.12	0.0088	0.0023
Mercury	101984-01-03 12:57 G	38969952.91	38969953.04	38969953.17	0.0088	0.0016
Mercury	101984-03-31 14:09 G	38970040.96	38970041.09	38970041.23	0.0088	0.0010
Mercury	101984-06-27 15:35 G	38970129.01	38970129.15	38970129.28	0.0088	0.0004
Mercury	101984-09-23 16:47 G	38970217.07	38970217.20	38970217.33	0.0088	0.0004
Mercury	101984-12-20 17:59 G	38970305.12	38970305.25	38970305.38	0.0088	0.0011

Mercury	101985-03-18 19:11 G	38970393.17	38970393.30	38970393.43	0.0088	0.0018
Mercury	101985-06-14 20:23 G	38970481.23	38970481.35	38970481.48	0.0088	0.0025
Mercury	101985-09-10 21:35 G	38970569.28	38970569.40	38970569.53	0.0088	0.0032
Mercury	101985-12-07 22:47 G	38970657.34	38970657.45	38970657.57	0.0088	0.0038
Mercury	101986-03-06 00:14 G	38970745.40	38970745.51	38970745.62	0.0088	0.0045
Mercury	101986-06-02 01:11 G	38970833.45	38970833.55	38970833.67	0.0088	0.0052
Mercury	101986-08-29 02:23 G	38970921.51	38970921.60	38970921.71	0.0088	0.0059
Mercury	101986-11-25 03:35 G	38971009.58	38971009.65	38971009.75	0.0088	0.0066
Mercury	101987-02-21 05:16 G	38971097.64	38971097.72	38971097.79	0.0088	0.0072
Mercury	101987-05-20 06:14 G	38971185.71	38971185.76	38971185.82	0.0088	0.0079
Mercury	101987-08-16 07:26 G	38971273.79	38971273.81	38971273.84	0.0088	0.0086

# 103RD MILLENNIUM CE

**This is a list of transits visible from Neptune in the 103rd millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	102006-04-16 18:28 G		38978092.26	38978092.27	38978092.32	0.0088	0.0087	
Venus	102006-11-04 23:45 G		38978294.43	38978294.49	38978294.57	0.0088	0.0083	
Earth	102007-04-19 06:42 G		38978459.62	38978459.78	38978459.95	0.0088	0.0068	
Moon	102007-04-19 09:21 G		38978459.73	38978459.89	38978460.09	0.0088	0.0064	*
Venus	102007-06-18 12:57 G		38978519.94	38978520.04	38978520.18	0.0088	0.0073	
Venus	102008-01-30 02:38 G		38978745.47	38978745.61	38978745.78	0.0088	0.0063	
Moon	102008-04-20 15:50 G		38978826.98	38978827.16	38978827.38	0.0088	0.0054	

Earth	102008-04-20 18:28 G	38978827.07	38978827.27	38978827.50	0.0088	0.0049	*
Venus	102008-09-11 16:18 G	38978971.01	38978971.18	38978971.37	0.0088	0.0052	
Earth	102009-04-23 06:28 G	38979194.54	38979194.77	38979195.03	0.0088	0.0030	
Moon	102009-04-23 07:11 G	38979194.56	38979194.80	38979195.08	0.0088	0.0026	*
Venus	102009-04-25 05:30 G	38979196.55	38979196.73	38979196.94	0.0088	0.0042	
Venus	102009-12-06 18:57 G	38979422.10	38979422.29	38979422.52	0.0088	0.0032	
Earth	102010-04-25 18:42 G	38979562.02	38979562.28	38979562.54	0.0088	0.0011	
Moon	102010-04-25 18:57 G	38979562.04	38979562.29	38979562.54	0.0088	0.0015	*
Venus	102010-07-20 08:38 G	38979647.65	38979647.86	38979648.08	0.0088	0.0021	
Venus	102011-03-02 22:18 G	38979873.21	38979873.43	38979873.66	0.0088	0.0010	
Moon	102011-04-28 05:16 G	38979929.46	38979929.72	38979929.99	0.0088	0.0013	
Earth	102011-04-28 06:28 G	38979929.51	38979929.77	38979930.03	0.0088	0.0008	*
Venus	102011-10-14 11:45 G	38980098.76	38980098.99	38980099.22	0.0088	0.0000	
Earth	102012-04-29 18:14 G	38980297.02	38980297.26	38980297.52	0.0088	0.0028	
Moon	102012-04-29 21:06 G	38980297.14	38980297.38	38980297.63	0.0088	0.0023	*
Venus	102012-05-27 00:57 G	38980324.32	38980324.54	38980324.77	0.0088	0.0011	
Venus	102013-01-07 14:23 G	38980549.89	38980550.10	38980550.32	0.0088	0.0021	
Moon	102013-05-02 02:52 G	38980664.42	38980664.62	38980664.85	0.0088	0.0051	
Earth	102013-05-02 05:59 G	38980664.55	38980664.75	38980664.99	0.0088	0.0047	*
Venus	102013-08-21 03:35 G	38980775.46	38980775.65	38980775.88	0.0088	0.0032	
Venus	102014-04-03 17:02 G	38981001.03	38981001.21	38981001.42	0.0088	0.0042	
Earth	102014-05-04 17:45 G	38981032.09	38981032.24	38981032.44	0.0088	0.0066	
Moon	102014-05-04 21:35 G	38981032.23	38981032.40	38981032.60	0.0088	0.0062	*
Venus	102014-11-15 06:42 G	38981226.60	38981226.78	38981226.96	0.0088	0.0052	
Earth	102015-05-07 05:45 G	38981399.70	38981399.74	38981399.84	0.0088	0.0085	
Venus	102015-06-28 19:40 G	38981452.19	38981452.32	38981452.50	0.0088	0.0063	
Venus	102016-02-09 09:21 G	38981677.78	38981677.89	38981678.03	0.0088	0.0073	
Venus	102016-09-21 23:02 G	38981903.40	38981903.46	38981903.54	0.0088	0.0083	
Mars	102046-05-23 04:47 G	38992738.39	38992738.70	38992739.03	0.0089	0.0013	
Mercury	102065-10-08 07:40 G	38999816.77	38999816.82	38999816.91	0.0089	0.0084	



Mercury	102066-01-04 11:30 G	38999904.88	38999904.98	38999905.11	0.0089	0.0073
Mercury	102066-04-02 15:35 G	38999993.01	38999993.15	38999993.30	0.0089	0.0062
Mercury	102066-06-29 19:11 G	39000081.15	39000081.30	39000081.47	0.0090	0.0051
Mercury	102066-09-25 23:02 G	39000169.30	39000169.46	39000169.65	0.0090	0.0041
Mercury	102066-12-23 02:52 G	39000257.44	39000257.62	39000257.82	0.0090	0.0030
Mercury	102067-03-21 06:57 G	39000345.60	39000345.79	39000345.98	0.0090	0.0019
Mercury	102067-06-17 10:47 G	39000433.75	39000433.95	39000434.15	0.0090	0.0008
Mercury	102067-09-13 14:38 G	39000521.91	39000522.11	39000522.31	0.0090	0.0003
Mercury	102067-12-10 18:28 G	39000610.07	39000610.27	39000610.46	0.0090	0.0014
Mercury	102068-03-07 22:04 G	39000698.24	39000698.42	39000698.62	0.0090	0.0025
Mercury	102068-06-04 01:54 G	39000786.41	39000786.58	39000786.77	0.0090	0.0036
Mercury	102068-08-31 05:30 G	39000874.58	39000874.73	39000874.91	0.0090	0.0047
Mercury	102068-11-27 09:21 G	39000962.75	39000962.89	39000963.06	0.0090	0.0058
Mercury	102069-02-23 13:11 G	39001050.94	39001051.05	39001051.19	0.0090	0.0068
Mercury	102069-05-22 17:16 G	39001139.13	39001139.22	39001139.31	0.0090	0.0079
Venus	102088-05-09 22:33 G	39008066.43	39008066.44	39008066.49	0.0090	0.0089
Earth	102088-10-18 09:50 G	39008227.79	39008227.91	39008228.07	0.0090	0.0075
Moon	102088-10-18 13:26 G	39008227.96	39008228.06	39008228.19	0.0090	0.0080 *
Venus	102088-12-21 11:16 G	39008291.88	39008291.97	39008292.08	0.0090	0.0078
Venus	102089-08-03 23:45 G	39008517.37	39008517.49	39008517.65	0.0090	0.0068
Moon	102089-10-20 18:28 G	39008595.08	39008595.27	39008595.49	0.0090	0.0051
Earth	102089-10-20 21:35 G	39008595.20	39008595.40	39008595.60	0.0090	0.0055 *
Venus	102090-03-17 12:28 G	39008742.87	39008743.02	39008743.20	0.0090	0.0057
Earth	102090-10-23 08:23 G	39008962.64	39008962.85	39008963.10	0.0090	0.0036
Moon	102090-10-23 10:33 G	39008962.72	39008962.94	39008963.19	0.0090	0.0040 *
Venus	102090-10-29 00:57 G	39008968.37	39008968.54	39008968.73	0.0090	0.0047
Venus	102091-06-11 13:26 G	39009193.87	39009194.06	39009194.27	0.0090	0.0036
Moon	102091-10-25 19:11 G	39009330.06	39009330.30	39009330.55	0.0090	0.0011
Earth	102091-10-25 20:09 G	39009330.10	39009330.34	39009330.60	0.0090	0.0016 *
Venus	102092-01-23 01:54 G	39009419.39	39009419.58	39009419.80	0.0090	0.0026

Venus	102092-09-04 14:38 G	39009644.91	39009645.11	39009645.33	0.0090	0.0015
Moon	102092-10-27 06:42 G	39009697.52	39009697.78	39009698.05	0.0090	0.0001
Earth	102092-10-27 07:26 G	39009697.56	39009697.81	39009698.07	0.0090	0.0005 *
Venus	102093-04-18 03:21 G	39009870.43	39009870.64	39009870.86	0.0090	0.0004
Earth	102093-10-29 18:28 G	39010065.04	39010065.27	39010065.53	0.0090	0.0025
Moon	102093-10-29 20:09 G	39010065.12	39010065.34	39010065.58	0.0090	0.0029 *
Venus	102093-11-29 15:50 G	39010095.95	39010096.16	39010096.38	0.0090	0.0007
Venus	102094-07-13 04:18 G	39010321.48	39010321.68	39010321.90	0.0090	0.0018
Moon	102094-11-01 03:06 G	39010432.42	39010432.63	39010432.89	0.0090	0.0040
Earth	102094-11-01 05:30 G	39010432.54	39010432.73	39010432.98	0.0090	0.0045 *
Venus	102095-02-23 16:47 G	39010547.01	39010547.20	39010547.42	0.0090	0.0029
Venus	102095-10-07 05:45 G	39010772.55	39010772.74	39010772.93	0.0090	0.0039
Earth	102095-11-03 17:02 G	39010800.05	39010800.21	39010800.40	0.0090	0.0064
Moon	102095-11-03 20:38 G	39010800.21	39010800.36	39010800.53	0.0090	0.0069 *
Venus	102096-05-19 17:59 G	39010998.09	39010998.25	39010998.44	0.0090	0.0050
Moon	102096-11-05 01:11 G	39011167.44	39011167.55	39011167.68	0.0090	0.0079
Earth	102096-11-05 04:18 G	39011167.62	39011167.68	39011167.79	0.0090	0.0084 *
Venus	102096-12-31 06:57 G	39011223.63	39011223.79	39011223.95	0.0090	0.0060
Venus	102097-08-13 19:11 G	39011449.19	39011449.30	39011449.45	0.0090	0.0071
Venus	102098-03-27 07:40 G	39011674.76	39011674.82	39011674.93	0.0090	0.0082
Mars	102126-03-10 00:57 G	39021883.36	39021883.54	39021883.73	0.0089	0.0069
Mars	102128-02-02 07:11 G	39022577.52	39022577.80	39022578.10	0.0088	0.0028
Mercury	102146-05-03 23:45 G	39029243.46	39029243.49	39029243.54	0.0088	0.0083
Mercury	102146-07-31 01:11 G	39029331.49	39029331.55	39029331.61	0.0088	0.0076
Mercury	102146-10-27 02:09 G	39029419.52	39029419.59	39029419.68	0.0088	0.0070
Mercury	102147-01-23 03:21 G	39029507.56	39029507.64	39029507.75	0.0088	0.0063
Mercury	102147-04-21 04:47 G	39029595.61	39029595.70	39029595.81	0.0088	0.0056
Mercury	102147-07-18 05:59 G	39029683.65	39029683.75	39029683.87	0.0088	0.0049
Mercury	102147-10-14 07:26 G	39029771.70	39029771.81	39029771.93	0.0088	0.0042
Mercury	102148-01-10 08:38 G	39029859.74	39029859.86	39029859.98	0.0088	0.0035

Mercury	102148-04-07 09:50 G	39029947.79	39029947.91	39029948.04	0.0088	0.0028
Mercury	102148-07-04 11:02 G	39030035.84	39030035.96	39030036.09	0.0088	0.0022
Mercury	102148-09-30 12:28 G	39030123.89	39030124.02	39030124.15	0.0088	0.0015
Mercury	102148-12-27 13:40 G	39030211.94	39030212.07	39030212.20	0.0088	0.0008
Mercury	102149-03-25 14:52 G	39030299.99	39030300.12	39030300.25	0.0088	0.0002
Mercury	102149-06-21 16:04 G	39030388.04	39030388.17	39030388.31	0.0088	0.0007
Mercury	102149-09-17 17:30 G	39030476.10	39030476.23	39030476.36	0.0088	0.0013
Mercury	102149-12-14 18:42 G	39030564.15	39030564.28	39030564.41	0.0088	0.0020
Mercury	102150-03-12 19:54 G	39030652.21	39030652.33	39030652.46	0.0088	0.0026
Mercury	102150-06-08 21:06 G	39030740.26	39030740.38	39030740.50	0.0088	0.0033
Mercury	102150-09-04 22:18 G	39030828.32	39030828.43	39030828.55	0.0088	0.0040
Mercury	102150-12-01 23:30 G	39030916.38	39030916.48	39030916.60	0.0088	0.0047
Mercury	102151-02-28 00:42 G	39031004.44	39031004.53	39031004.64	0.0088	0.0054
Mercury	102151-05-27 01:54 G	39031092.50	39031092.58	39031092.68	0.0088	0.0061
Mercury	102151-08-23 03:21 G	39031180.56	39031180.64	39031180.72	0.0088	0.0067
Mercury	102151-11-19 04:33 G	39031268.62	39031268.69	39031268.76	0.0088	0.0074
Mercury	102152-02-15 05:45 G	39031356.70	39031356.74	39031356.79	0.0088	0.0081
Mercury	102152-05-13 06:57 G	39031444.79	39031444.79	39031444.80	0.0088	0.0088
Venus	102171-02-07 08:23 G	39038288.82	39038288.85	39038288.90	0.0088	0.0086
Moon	102171-04-19 11:45 G	39038359.87	39038359.99	39038360.13	0.0088	0.0075
Earth	102171-04-19 12:42 G	39038359.92	39038360.03	39038360.19	0.0088	0.0075 *
Venus	102171-09-20 21:35 G	39038514.31	39038514.40	39038514.53	0.0088	0.0076
Earth	102172-04-21 00:57 G	39038727.35	39038727.54	39038727.76	0.0088	0.0056
Moon	102172-04-21 01:26 G	39038727.38	39038727.56	39038727.80	0.0088	0.0055 *
Venus	102172-05-03 11:02 G	39038739.83	39038739.96	39038740.13	0.0088	0.0066
Venus	102172-12-15 00:57 G	39038965.37	39038965.54	39038965.71	0.0088	0.0055
Earth	102173-04-23 12:57 G	39039094.82	39039095.04	39039095.30	0.0088	0.0037
Moon	102173-04-23 13:54 G	39039094.87	39039095.08	39039095.33	0.0088	0.0038 *
Venus	102173-07-28 14:09 G	39039190.91	39039191.09	39039191.30	0.0088	0.0045
Venus	102174-03-11 03:50 G	39039416.46	39039416.66	39039416.88	0.0088	0.0035

Moon	102174-04-25 23:02 G	39039462.20	39039462.46	39039462.73	0.0088	0.0017
Earth	102174-04-26 01:11 G	39039462.30	39039462.55	39039462.82	0.0088	0.0018 *
Venus	102174-10-22 17:30 G	39039642.02	39039642.23	39039642.45	0.0088	0.0024
Earth	102175-04-28 13:26 G	39039829.80	39039830.06	39039830.32	0.0088	0.0002
Moon	102175-04-28 16:04 G	39039829.91	39039830.17	39039830.42	0.0088	0.0001 *
Venus	102175-06-05 06:57 G	39039867.57	39039867.79	39039868.02	0.0088	0.0013
Venus	102176-01-16 20:38 G	39040093.13	39040093.36	39040093.58	0.0088	0.0003
Moon	102176-04-29 21:50 G	39040197.15	39040197.41	39040197.66	0.0088	0.0022
Earth	102176-04-30 01:11 G	39040197.31	39040197.55	39040197.82	0.0088	0.0022 *
Venus	102176-08-29 10:04 G	39040318.69	39040318.92	39040319.14	0.0088	0.0007
Venus	102177-04-11 23:30 G	39040544.26	39040544.48	39040544.70	0.0088	0.0018
Earth	102177-05-02 12:57 G	39040564.83	39040565.04	39040565.29	0.0088	0.0041
Moon	102177-05-02 16:33 G	39040564.98	39040565.19	39040565.44	0.0088	0.0040 *
Venus	102177-11-23 12:28 G	39040769.83	39040770.02	39040770.25	0.0088	0.0029
Moon	102178-05-04 21:35 G	39040932.24	39040932.40	39040932.61	0.0088	0.0062
Earth	102178-05-05 00:57 G	39040932.38	39040932.54	39040932.76	0.0088	0.0060 *
Venus	102178-07-07 02:09 G	39040995.40	39040995.59	39040995.80	0.0088	0.0039
Venus	102179-02-17 15:50 G	39041220.98	39041221.16	39041221.35	0.0088	0.0049
Earth	102179-05-07 12:42 G	39041299.95	39041300.03	39041300.18	0.0088	0.0079
Moon	102179-05-07 15:35 G	39041300.05	39041300.15	39041300.31	0.0088	0.0077 *
Venus	102179-10-01 04:47 G	39041446.56	39041446.70	39041446.89	0.0088	0.0060
Venus	102180-05-13 18:14 G	39041672.15	39041672.26	39041672.41	0.0088	0.0070
Venus	102180-12-25 07:54 G	39041897.75	39041897.83	39041897.93	0.0088	0.0080
Jupiter	102198-05-08 02:23 G	39048240.10	39048240.60	39048241.12	0.0088	0.0038
Mars	102210-01-06 06:28 G	39052500.52	39052500.77	39052501.05	0.0089	0.0050
Mars	102211-12-02 15:06 G	39053195.88	39053196.13	39053196.38	0.0089	0.0055
Mercury	102230-07-07 05:59 G	39059987.67	39059987.75	39059987.84	0.0090	0.0080
Mercury	102230-10-03 09:21 G	39060075.79	39060075.89	39060076.03	0.0090	0.0070
Mercury	102230-12-30 13:11 G	39060163.92	39060164.05	39060164.22	0.0090	0.0059
Mercury	102231-03-28 17:16 G	39060252.06	39060252.22	39060252.39	0.0090	0.0048

Mercury	102231-06-24 21:06 G	39060340.20	39060340.38	39060340.56	0.0090	0.0037
Mercury	102231-09-21 00:42 G	39060428.35	39060428.53	39060428.73	0.0090	0.0027
Mercury	102231-12-18 04:47 G	39060516.51	39060516.70	39060516.90	0.0090	0.0015
Mercury	102232-03-15 08:38 G	39060604.66	39060604.86	39060605.06	0.0090	0.0005
Mercury	102232-06-11 12:28 G	39060692.82	39060693.02	39060693.22	0.0090	0.0006
Mercury	102232-09-07 16:04 G	39060780.98	39060781.17	39060781.37	0.0090	0.0017
Mercury	102232-12-04 19:54 G	39060869.15	39060869.33	39060869.52	0.0090	0.0028
Mercury	102233-03-02 23:45 G	39060957.32	39060957.49	39060957.67	0.0090	0.0039
Mercury	102233-05-30 03:21 G	39061045.49	39061045.64	39061045.82	0.0090	0.0050
Mercury	102233-08-26 07:11 G	39061133.67	39061133.80	39061133.96	0.0090	0.0061
Mercury	102233-11-22 10:47 G	39061221.85	39061221.95	39061222.09	0.0090	0.0072
Mercury	102234-02-18 15:06 G	39061310.06	39061310.13	39061310.21	0.0090	0.0082
Moon	102252-10-19 15:06 G	39068128.05	39068128.13	39068128.23	0.0090	0.0083
Earth	102252-10-19 17:45 G	39068128.16	39068128.24	39068128.36	0.0090	0.0082 *
Venus	102253-03-26 21:50 G	39068286.33	39068286.41	39068286.51	0.0090	0.0081
Earth	102253-10-22 05:30 G	39068495.55	39068495.73	39068495.91	0.0090	0.0062
Moon	102253-10-22 06:28 G	39068495.60	39068495.77	39068495.99	0.0090	0.0061 *
Venus	102253-11-07 10:04 G	39068511.81	39068511.92	39068512.07	0.0090	0.0071
Venus	102254-06-20 22:47 G	39068737.30	39068737.45	39068737.62	0.0090	0.0060
Earth	102254-10-24 16:33 G	39068862.98	39068863.19	39068863.43	0.0090	0.0043
Moon	102254-10-24 16:33 G	39068862.99	39068863.19	39068863.42	0.0090	0.0044 *
Venus	102255-02-01 11:16 G	39068962.80	39068962.97	39068963.16	0.0090	0.0050
Venus	102255-09-14 23:59 G	39069188.31	39069188.50	39069188.70	0.0090	0.0039
Moon	102255-10-27 03:21 G	39069230.39	39069230.64	39069230.91	0.0090	0.0022
Earth	102255-10-27 04:04 G	39069230.43	39069230.67	39069230.92	0.0090	0.0023 *
Venus	102256-04-27 12:28 G	39069413.82	39069414.02	39069414.23	0.0090	0.0028
Earth	102256-10-28 15:35 G	39069597.89	39069598.15	39069598.40	0.0090	0.0003
Moon	102256-10-28 17:45 G	39069597.99	39069598.24	39069598.49	0.0090	0.0004 *
Venus	102256-12-09 00:57 G	39069639.34	39069639.54	39069639.76	0.0090	0.0018
Venus	102257-07-22 13:40 G	39069864.86	39069865.07	39069865.29	0.0090	0.0007

Moon	102257-10-30 23:45 G	39069965.24	39069965.49	39069965.74	0.0090	0.0019
Earth	102257-10-31 02:38 G	39069965.37	39069965.61	39069965.87	0.0090	0.0018 *
Venus	102258-03-05 02:23 G	39070090.38	39070090.60	39070090.81	0.0090	0.0004
Venus	102258-10-16 14:38 G	39070315.91	39070316.11	39070316.33	0.0090	0.0015
Earth	102258-11-02 13:40 G	39070332.85	39070333.07	39070333.32	0.0090	0.0038
Moon	102258-11-02 17:16 G	39070332.99	39070333.22	39070333.45	0.0090	0.0037 *
Venus	102259-05-30 03:21 G	39070541.43	39070541.64	39070541.85	0.0090	0.0025
Moon	102259-11-04 21:06 G	39070700.22	39070700.38	39070700.60	0.0090	0.0059
Earth	102259-11-05 01:26 G	39070700.36	39070700.56	39070700.75	0.0090	0.0057 *
Venus	102260-01-10 15:35 G	39070766.96	39070767.15	39070767.36	0.0090	0.0036
Venus	102260-08-23 04:04 G	39070992.51	39070992.67	39070992.88	0.0090	0.0047
Earth	102260-11-06 12:14 G	39071067.89	39071068.01	39071068.15	0.0090	0.0077
Moon	102260-11-06 14:38 G	39071068.01	39071068.11	39071068.28	0.0090	0.0077 *
Venus	102261-04-05 17:02 G	39071218.05	39071218.21	39071218.38	0.0090	0.0057
Venus	102261-11-17 05:16 G	39071443.60	39071443.72	39071443.88	0.0090	0.0068
Venus	102262-06-30 17:59 G	39071669.16	39071669.25	39071669.37	0.0090	0.0078
Venus	102263-02-11 06:14 G	39071894.75	39071894.76	39071894.82	0.0090	0.0089
Mars	102291-09-18 04:33 G	39082340.39	39082340.69	39082340.99	0.0089	0.0006
Mercury	102311-01-30 23:02 G	39089414.43	39089414.46	39089414.52	0.0088	0.0082
Mercury	102311-04-29 00:14 G	39089502.46	39089502.51	39089502.59	0.0088	0.0075
Mercury	102311-07-26 01:40 G	39089590.49	39089590.57	39089590.66	0.0088	0.0068
Mercury	102311-10-22 02:52 G	39089678.54	39089678.62	39089678.72	0.0088	0.0061
Mercury	102312-01-18 04:18 G	39089766.58	39089766.68	39089766.78	0.0088	0.0054
Mercury	102312-04-15 05:30 G	39089854.62	39089854.73	39089854.84	0.0088	0.0047
Mercury	102312-07-12 06:57 G	39089942.67	39089942.79	39089942.90	0.0088	0.0040
Mercury	102312-10-08 07:54 G	39090030.72	39090030.83	39090030.96	0.0088	0.0034
Mercury	102313-01-04 09:06 G	39090118.76	39090118.88	39090119.02	0.0088	0.0027
Mercury	102313-04-02 10:33 G	39090206.81	39090206.94	39090207.07	0.0088	0.0020
Mercury	102313-06-29 11:45 G	39090294.86	39090294.99	39090295.12	0.0088	0.0013
Mercury	102313-09-25 13:11 G	39090382.92	39090383.05	39090383.18	0.0088	0.0006

Mercury	102313-12-22 14:23 G	39090470.97	39090471.10	39090471.23	0.0088	0.0001
Mercury	102314-03-20 15:35 G	39090559.02	39090559.15	39090559.28	0.0088	0.0008
Mercury	102314-06-16 16:47 G	39090647.07	39090647.20	39090647.33	0.0088	0.0015
Mercury	102314-09-12 17:59 G	39090735.13	39090735.25	39090735.38	0.0088	0.0022
Mercury	102314-12-09 19:26 G	39090823.18	39090823.31	39090823.43	0.0088	0.0028
Mercury	102315-03-07 20:38 G	39090911.24	39090911.36	39090911.48	0.0088	0.0035
Mercury	102315-06-03 21:50 G	39090999.30	39090999.41	39090999.53	0.0088	0.0042
Mercury	102315-08-30 23:02 G	39091087.36	39091087.46	39091087.57	0.0088	0.0049
Mercury	102315-11-27 00:14 G	39091175.42	39091175.51	39091175.62	0.0088	0.0056
Mercury	102316-02-23 01:26 G	39091263.48	39091263.56	39091263.66	0.0088	0.0062
Mercury	102316-05-21 02:52 G	39091351.54	39091351.62	39091351.70	0.0088	0.0069
Mercury	102316-08-17 03:50 G	39091439.61	39091439.66	39091439.74	0.0088	0.0076
Mercury	102316-11-13 05:02 G	39091527.68	39091527.71	39091527.77	0.0088	0.0083
Earth	102335-04-20 20:23 G	39098260.27	39098260.35	39098260.47	0.0088	0.0081
Moon	102335-04-20 20:23 G	39098260.29	39098260.35	39098260.41	0.0088	0.0085 *
Venus	102335-12-25 06:28 G	39098508.70	39098508.77	39098508.89	0.0088	0.0079
Earth	102336-04-22 08:23 G	39098627.68	39098627.85	39098628.05	0.0088	0.0062
Moon	102336-04-22 09:35 G	39098627.73	39098627.90	39098628.10	0.0088	0.0058 *
Venus	102336-08-06 19:54 G	39098734.22	39098734.33	39098734.49	0.0088	0.0069
Venus	102337-03-20 09:50 G	39098959.75	39098959.91	39098960.09	0.0088	0.0058
Moon	102337-04-24 17:45 G	39098995.03	39098995.24	39098995.48	0.0088	0.0048
Earth	102337-04-24 20:23 G	39098995.13	39098995.35	39098995.59	0.0088	0.0043 *
Venus	102337-10-31 23:02 G	39099185.29	39099185.46	39099185.67	0.0088	0.0048
Earth	102338-04-27 08:23 G	39099362.61	39099362.85	39099363.11	0.0088	0.0024
Moon	102338-04-27 11:59 G	39099362.75	39099363.00	39099363.25	0.0088	0.0019 *
Venus	102338-06-14 12:57 G	39099410.84	39099411.04	39099411.25	0.0088	0.0037
Venus	102339-01-26 02:23 G	39099636.39	39099636.60	39099636.82	0.0088	0.0027
Moon	102339-04-29 17:16 G	39099729.96	39099730.22	39099730.48	0.0088	0.0009
Earth	102339-04-29 20:38 G	39099730.10	39099730.36	39099730.62	0.0088	0.0004 *
Venus	102339-09-08 15:50 G	39099861.95	39099862.16	39099862.39	0.0088	0.0017

Venus	102340-04-21 05:30 G	39100087.51	39100087.73	39100087.96	0.0088	0.0006
Earth	102340-05-01 08:38 G	39100097.61	39100097.86	39100098.12	0.0088	0.0015
Moon	102340-05-01 12:28 G	39100097.77	39100098.02	39100098.28	0.0088	0.0020 *
Venus	102340-12-02 18:57 G	39100313.07	39100313.29	39100313.52	0.0088	0.0005
Moon	102341-05-03 17:45 G	39100465.01	39100465.24	39100465.50	0.0088	0.0030
Earth	102341-05-03 20:23 G	39100465.13	39100465.35	39100465.61	0.0088	0.0035 *
Venus	102341-07-16 08:23 G	39100538.63	39100538.85	39100539.08	0.0088	0.0015
Venus	102342-02-26 21:50 G	39100764.21	39100764.41	39100764.64	0.0088	0.0026
Earth	102342-05-06 08:09 G	39100832.66	39100832.84	39100833.07	0.0088	0.0054
Moon	102342-05-06 10:47 G	39100832.77	39100832.95	39100833.17	0.0088	0.0058 *
Venus	102342-10-10 11:16 G	39100989.78	39100989.97	39100990.19	0.0088	0.0036
Moon	102343-05-08 19:26 G	39101200.16	39101200.31	39101200.48	0.0088	0.0068
Earth	102343-05-08 20:23 G	39101200.23	39101200.35	39101200.52	0.0088	0.0073 *
Venus	102343-05-24 00:57 G	39101215.35	39101215.54	39101215.73	0.0088	0.0046
Venus	102344-01-04 13:54 G	39101440.93	39101441.08	39101441.27	0.0088	0.0057
Venus	102344-08-17 03:35 G	39101666.52	39101666.65	39101666.81	0.0088	0.0067
Venus	102345-03-30 16:47 G	39101892.12	39101892.20	39101892.33	0.0088	0.0078
Venus	102345-11-11 06:28 G	39102117.77	39102117.77	39102117.80	0.0088	0.0088
Jupiter	102364-07-15 05:45 G	39108938.55	39108938.74	39108939.01	0.0088	0.0081
Mars	102373-08-21 07:40 G	39112262.81	39112262.82	39112262.92	0.0089	0.0088
Mars	102375-07-17 18:42 G	39112957.97	39112958.28	39112958.61	0.0089	0.0019
Mercury	102395-01-05 23:59 G	39120070.47	39120070.50	39120070.56	0.0089	0.0087
Mercury	102395-04-04 04:04 G	39120158.57	39120158.67	39120158.78	0.0089	0.0076
Mercury	102395-07-01 07:25 G	39120246.70	39120246.81	39120246.97	0.0089	0.0066
Mercury	102395-09-27 11:30 G	39120334.84	39120334.98	39120335.15	0.0090	0.0055
Mercury	102395-12-24 15:21 G	39120422.98	39120423.14	39120423.32	0.0090	0.0044
Mercury	102396-03-21 19:11 G	39120511.13	39120511.30	39120511.49	0.0090	0.0033
Mercury	102396-06-17 23:01 G	39120599.28	39120599.46	39120599.66	0.0090	0.0022
Mercury	102396-09-14 02:52 G	39120687.43	39120687.62	39120687.82	0.0090	0.0011
Mercury	102396-12-11 06:42 G	39120775.59	39120775.78	39120775.98	0.0090	0.0001



Mercury	102397-03-09 10:33 G	39120863.75	39120863.94	39120864.14	0.0090	0.0010
Mercury	102397-06-05 14:09 G	39120951.91	39120952.09	39120952.29	0.0090	0.0022
Mercury	102397-09-01 18:13 G	39121040.08	39121040.26	39121040.44	0.0090	0.0032
Mercury	102397-11-28 21:49 G	39121128.25	39121128.41	39121128.59	0.0090	0.0043
Mercury	102398-02-25 01:25 G	39121216.42	39121216.56	39121216.73	0.0090	0.0054
Mercury	102398-05-24 05:16 G	39121304.60	39121304.72	39121304.87	0.0090	0.0065
Mercury	102398-08-20 08:52 G	39121392.79	39121392.87	39121393.00	0.0090	0.0076
Mercury	102398-11-16 13:11 G	39121481.00	39121481.05	39121481.11	0.0090	0.0086
Moon	102416-10-20 02:37 G	39128028.55	39128028.61	39128028.72	0.0090	0.0085
Earth	102416-10-20 01:54 G	39128028.57	39128028.58	39128028.62	0.0090	0.0089 *
Venus	102417-06-29 08:09 G	39128280.78	39128280.84	39128280.93	0.0090	0.0084
Earth	102417-10-22 13:25 G	39128395.91	39128396.06	39128396.24	0.0090	0.0069
Moon	102417-10-22 13:40 G	39128395.95	39128396.07	39128396.23	0.0090	0.0074 *
Venus	102418-02-09 20:37 G	39128506.26	39128506.36	39128506.50	0.0090	0.0074
Venus	102418-09-23 09:21 G	39128731.75	39128731.89	39128732.05	0.0090	0.0063
Moon	102418-10-24 22:47 G	39128763.24	39128763.45	39128763.70	0.0090	0.0046
Earth	102418-10-25 01:11 G	39128763.34	39128763.55	39128763.77	0.0090	0.0049 *
Venus	102419-05-06 21:49 G	39128957.25	39128957.41	39128957.60	0.0090	0.0053
Earth	102419-10-27 12:28 G	39129130.78	39129131.02	39129131.27	0.0090	0.0029
Moon	102419-10-27 14:37 G	39129130.89	39129131.11	39129131.35	0.0090	0.0034 *
Venus	102419-12-18 10:33 G	39129182.76	39129182.94	39129183.14	0.0090	0.0042
Venus	102420-07-30 23:01 G	39129408.27	39129408.46	39129408.67	0.0090	0.0032
Moon	102420-10-28 20:23 G	39129498.09	39129498.35	39129498.61	0.0090	0.0005
Earth	102420-10-28 23:45 G	39129498.24	39129498.49	39129498.75	0.0090	0.0009 *
Venus	102421-03-13 11:45 G	39129633.79	39129633.99	39129634.20	0.0090	0.0021
Venus	102421-10-25 00:13 G	39129859.30	39129859.51	39129859.73	0.0090	0.0010
Earth	102421-10-31 11:01 G	39129865.71	39129865.96	39129866.22	0.0090	0.0011
Moon	102421-10-31 14:37 G	39129865.86	39129866.11	39129866.37	0.0090	0.0007 *
Venus	102422-06-07 12:42 G	39130084.82	39130085.03	39130085.25	0.0090	0.0002
Moon	102422-11-02 18:42 G	39130233.07	39130233.28	39130233.53	0.0090	0.0036

Earth	102422-11-02 22:18 G	39130233.20	39130233.43	39130233.68	0.0090	0.0031	*
Venus	102423-01-19 01:11 G	39130310.34	39130310.55	39130310.77	0.0090	0.0011	
Venus	102423-09-01 13:54 G	39130535.87	39130536.08	39130536.29	0.0090	0.0022	
Earth	102423-11-05 09:06 G	39130600.69	39130600.88	39130601.11	0.0090	0.0051	
Moon	102423-11-05 12:13 G	39130600.80	39130601.01	39130601.25	0.0090	0.0046	*
Venus	102424-04-14 02:09 G	39130761.40	39130761.59	39130761.80	0.0090	0.0033	
Moon	102424-11-06 18:57 G	39130968.17	39130968.29	39130968.44	0.0090	0.0075	
Earth	102424-11-06 20:09 G	39130968.21	39130968.34	39130968.53	0.0090	0.0071	*
Venus	102424-11-25 14:37 G	39130986.94	39130987.11	39130987.31	0.0090	0.0044	
Venus	102425-07-09 03:21 G	39131212.48	39131212.64	39131212.82	0.0090	0.0054	
Moon	102425-11-09 08:23 G	39131335.80	39131335.85	39131335.95	0.0090	0.0086	
Venus	102426-02-19 15:35 G	39131438.02	39131438.15	39131438.32	0.0090	0.0065	
Venus	102426-10-03 04:33 G	39131663.58	39131663.69	39131663.81	0.0090	0.0075	
Venus	102427-05-16 16:47 G	39131889.16	39131889.20	39131889.28	0.0090	0.0086	
Mars	102455-05-04 04:33 G	39142103.44	39142103.69	39142103.97	0.0089	0.0041	
Mars	102457-03-28 07:25 G	39142797.61	39142797.81	39142798.07	0.0088	0.0057	
Mercury	102475-07-31 21:21 G	39149497.38	39149497.39	39149497.43	0.0088	0.0086	
Mercury	102475-10-27 22:47 G	39149585.40	39149585.45	39149585.51	0.0088	0.0079	
Mercury	102476-01-23 23:59 G	39149673.43	39149673.50	39149673.58	0.0088	0.0072	
Mercury	102476-04-21 01:25 G	39149761.47	39149761.56	39149761.65	0.0088	0.0065	
Mercury	102476-07-18 02:23 G	39149849.52	39149849.60	39149849.71	0.0088	0.0059	
Mercury	102476-10-14 03:49 G	39149937.56	39149937.66	39149937.77	0.0088	0.0052	
Mercury	102477-01-10 05:01 G	39150025.60	39150025.71	39150025.83	0.0088	0.0045	
Mercury	102477-04-08 06:13 G	39150113.65	39150113.76	39150113.89	0.0088	0.0038	
Mercury	102477-07-05 07:40 G	39150201.70	39150201.82	39150201.94	0.0088	0.0031	
Mercury	102477-10-01 08:52 G	39150289.75	39150289.87	39150290.00	0.0088	0.0024	
Mercury	102477-12-28 10:04 G	39150377.80	39150377.92	39150378.05	0.0088	0.0018	
Mercury	102478-03-26 11:30 G	39150465.85	39150465.98	39150466.11	0.0088	0.0011	
Mercury	102478-06-22 12:42 G	39150553.90	39150554.03	39150554.16	0.0088	0.0004	
Mercury	102478-09-18 13:54 G	39150641.95	39150642.08	39150642.21	0.0088	0.0003	

Mercury	102478-12-15 15:06 G	39150730.00	39150730.13	39150730.26	0.0088	0.0010
Mercury	102479-03-13 16:18 G	39150818.06	39150818.18	39150818.32	0.0088	0.0017
Mercury	102479-06-09 17:30 G	39150906.11	39150906.23	39150906.36	0.0088	0.0024
Mercury	102479-09-05 18:57 G	39150994.17	39150994.29	39150994.41	0.0088	0.0031
Mercury	102479-12-02 20:09 G	39151082.22	39151082.34	39151082.46	0.0088	0.0037
Mercury	102480-02-28 21:21 G	39151170.28	39151170.39	39151170.51	0.0088	0.0044
Mercury	102480-05-26 22:33 G	39151258.34	39151258.44	39151258.55	0.0088	0.0051
Mercury	102480-08-22 23:45 G	39151346.40	39151346.49	39151346.60	0.0088	0.0058
Mercury	102480-11-19 00:57 G	39151434.46	39151434.54	39151434.64	0.0088	0.0065
Mercury	102481-02-15 02:09 G	39151522.53	39151522.59	39151522.68	0.0088	0.0072
Mercury	102481-05-14 03:35 G	39151610.60	39151610.65	39151610.71	0.0088	0.0078
Mercury	102481-08-10 04:47 G	39151698.68	39151698.70	39151698.74	0.0088	0.0085
Earth	102499-04-20 04:33 G	39158160.67	39158160.69	39158160.73	0.0088	0.0087
Venus	102500-03-28 16:18 G	39158503.10	39158503.18	39158503.27	0.0088	0.0081
Moon	102500-04-22 12:57 G	39158527.90	39158528.04	39158528.24	0.0088	0.0067
Earth	102500-04-22 16:33 G	39158528.03	39158528.19	39158528.36	0.0088	0.0068 *
Venus	102500-11-09 05:30 G	39158728.61	39158728.73	39158728.88	0.0088	0.0071
Earth	102501-04-25 04:18 G	39158895.47	39158895.68	39158895.91	0.0088	0.0049
Moon	102501-04-25 07:40 G	39158895.63	39158895.82	39158896.05	0.0088	0.0050 *
Venus	102501-06-22 18:57 G	39158954.14	39158954.29	39158954.47	0.0088	0.0061
Venus	102502-02-03 08:52 G	39159179.69	39159179.87	39159180.06	0.0088	0.0050
Moon	102502-04-27 12:28 G	39159262.79	39159263.02	39159263.28	0.0088	0.0029
Earth	102502-04-27 16:18 G	39159262.94	39159263.18	39159263.43	0.0088	0.0030 *
Venus	102502-09-16 22:04 G	39159405.23	39159405.42	39159405.63	0.0088	0.0040
Earth	102503-04-30 04:18 G	39159630.43	39159630.68	39159630.95	0.0088	0.0011
Moon	102503-04-30 07:40 G	39159630.56	39159630.82	39159631.08	0.0088	0.0011 *
Venus	102503-04-30 11:30 G	39159630.78	39159630.98	39159631.21	0.0088	0.0030 *
Venus	102503-12-12 01:11 G	39159856.34	39159856.55	39159856.78	0.0088	0.0019
Moon	102504-05-01 13:54 G	39159997.83	39159998.08	39159998.34	0.0088	0.0009
Earth	102504-05-01 16:33 G	39159997.94	39159998.19	39159998.46	0.0088	0.0009 *

Venus	102504-07-24 14:52 G	39160081.90	39160082.12	39160082.34	0.0088	0.0008
Venus	102505-03-07 04:33 G	39160307.46	39160307.69	39160307.92	0.0088	0.0002
Earth	102505-05-04 04:33 G	39160365.45	39160365.69	39160365.94	0.0088	0.0028
Moon	102505-05-04 05:30 G	39160365.49	39160365.73	39160366.00	0.0088	0.0028 *
Venus	102505-10-18 17:59 G	39160533.03	39160533.25	39160533.48	0.0088	0.0012
Earth	102506-05-06 16:18 G	39160732.98	39160733.18	39160733.42	0.0088	0.0048
Moon	102506-05-06 16:18 G	39160732.99	39160733.18	39160733.41	0.0088	0.0048 *
Venus	102506-06-01 07:25 G	39160758.60	39160758.81	39160759.03	0.0088	0.0023
Venus	102507-01-12 20:37 G	39160984.17	39160984.36	39160984.59	0.0088	0.0034
Moon	102507-05-09 03:35 G	39161100.50	39161100.65	39161100.85	0.0088	0.0067
Earth	102507-05-09 04:33 G	39161100.54	39161100.69	39161100.88	0.0088	0.0067 *
Venus	102507-08-26 10:18 G	39161209.75	39161209.93	39161210.14	0.0088	0.0044
Venus	102508-04-07 23:59 G	39161435.33	39161435.50	39161435.68	0.0088	0.0054
Earth	102508-05-10 16:33 G	39161468.16	39161468.19	39161468.26	0.0088	0.0086
Moon	102508-05-10 18:57 G	39161468.28	39161468.29	39161468.35	0.0088	0.0087
Venus	102508-11-19 12:57 G	39161660.92	39161661.04	39161661.22	0.0088	0.0065
Venus	102509-07-03 02:37 G	39161886.51	39161886.61	39161886.74	0.0088	0.0075
Venus	102510-02-13 16:18 G	39162112.14	39162112.18	39162112.24	0.0088	0.0085
Mars	102539-03-01 22:04 G	39172720.11	39172720.42	39172720.75	0.0089	0.0018
Mars	102541-01-25 08:09 G	39173415.82	39173415.84	39173415.88	0.0089	0.0088
Mercury	102559-10-03 22:04 G	39180241.37	39180241.42	39180241.52	0.0089	0.0083
Mercury	102559-12-31 02:09 G	39180329.49	39180329.59	39180329.72	0.0089	0.0072
Mercury	102560-03-28 05:59 G	39180417.62	39180417.75	39180417.90	0.0089	0.0061
Mercury	102560-06-24 09:35 G	39180505.76	39180505.90	39180506.08	0.0090	0.0051
Mercury	102560-09-20 13:40 G	39180593.90	39180594.07	39180594.25	0.0090	0.0039
Mercury	102560-12-17 17:30 G	39180682.05	39180682.23	39180682.42	0.0090	0.0029
Mercury	102561-03-15 21:21 G	39180770.20	39180770.39	39180770.59	0.0090	0.0018
Mercury	102561-06-12 01:11 G	39180858.36	39180858.55	39180858.75	0.0090	0.0007
Mercury	102561-09-08 05:01 G	39180946.51	39180946.71	39180946.91	0.0090	0.0004
Mercury	102561-12-05 08:52 G	39181034.67	39181034.87	39181035.06	0.0090	0.0015

Mercury	102562-03-03 12:28 G	39181122.84	39181123.02	39181123.22	0.0090	0.0026
Mercury	102562-05-30 16:04 G	39181211.01	39181211.17	39181211.37	0.0090	0.0037
Mercury	102562-08-26 20:09 G	39181299.18	39181299.34	39181299.51	0.0090	0.0047
Mercury	102562-11-22 23:45 G	39181387.35	39181387.49	39181387.65	0.0090	0.0058
Mercury	102563-02-19 03:35 G	39181475.54	39181475.65	39181475.79	0.0090	0.0069
Mercury	102563-05-18 07:11 G	39181563.73	39181563.80	39181563.91	0.0090	0.0080
Venus	102581-10-01 18:57 G	39188275.26	39188275.29	39188275.37	0.0090	0.0087
Moon	102581-10-22 20:09 G	39188296.24	39188296.34	39188296.48	0.0090	0.0079
Earth	102581-10-22 22:18 G	39188296.32	39188296.43	39188296.59	0.0090	0.0076 *
Venus	102582-05-15 07:54 G	39188500.73	39188500.83	39188500.95	0.0090	0.0076
Earth	102582-10-25 10:04 G	39188663.74	39188663.92	39188664.13	0.0090	0.0056
Moon	102582-10-25 13:11 G	39188663.87	39188664.05	39188664.28	0.0090	0.0053 *
Venus	102582-12-26 20:09 G	39188726.22	39188726.34	39188726.51	0.0090	0.0066
Venus	102583-08-09 09:21 G	39188951.72	39188951.89	39188952.06	0.0090	0.0055
Moon	102583-10-27 18:13 G	39189031.04	39189031.26	39189031.50	0.0090	0.0039
Earth	102583-10-27 21:35 G	39189031.18	39189031.40	39189031.64	0.0090	0.0036 *
Venus	102584-03-21 21:35 G	39189177.23	39189177.40	39189177.60	0.0090	0.0045
Earth	102584-10-29 09:06 G	39189398.63	39189398.88	39189399.13	0.0090	0.0016
Moon	102584-10-29 12:42 G	39189398.78	39189399.03	39189399.29	0.0090	0.0013 *
Venus	102584-11-02 10:18 G	39189402.74	39189402.93	39189403.14	0.0090	0.0034
Venus	102585-06-15 22:47 G	39189628.25	39189628.45	39189628.66	0.0090	0.0023
Moon	102585-10-31 17:45 G	39189765.99	39189766.24	39189766.49	0.0090	0.0001
Earth	102585-10-31 20:37 G	39189766.11	39189766.36	39189766.61	0.0090	0.0005 *
Venus	102586-01-27 11:16 G	39189853.77	39189853.97	39189854.19	0.0090	0.0013
Venus	102586-09-09 23:59 G	39190079.29	39190079.50	39190079.72	0.0090	0.0003
Earth	102586-11-03 07:25 G	39190133.58	39190133.81	39190134.07	0.0090	0.0025
Moon	102586-11-03 09:35 G	39190133.66	39190133.90	39190134.16	0.0090	0.0027 *
Venus	102587-04-23 12:28 G	39190304.81	39190305.02	39190305.24	0.0090	0.0009
Moon	102587-11-05 17:45 G	39190501.02	39190501.24	39190501.46	0.0090	0.0042
Earth	102587-11-05 18:28 G	39190501.07	39190501.27	39190501.51	0.0090	0.0045 *

Venus	102587-12-05 00:42 G	39190530.33	39190530.53	39190530.75	0.0090	0.0020
Venus	102588-07-17 13:25 G	39190755.86	39190756.06	39190756.27	0.0090	0.0030
Moon	102588-11-07 05:30 G	39190868.56	39190868.73	39190868.91	0.0090	0.0067
Earth	102588-11-07 05:30 G	39190868.58	39190868.73	39190868.93	0.0090	0.0065 *
Venus	102589-02-28 01:40 G	39190981.40	39190981.57	39190981.78	0.0090	0.0041
Venus	102589-10-11 14:23 G	39191206.93	39191207.10	39191207.29	0.0090	0.0051
Earth	102589-11-09 17:01 G	39191236.14	39191236.21	39191236.31	0.0090	0.0084
Moon	102589-11-09 18:13 G	39191236.18	39191236.26	39191236.38	0.0090	0.0082 *
Venus	102590-05-25 02:37 G	39191432.47	39191432.61	39191432.78	0.0090	0.0062
Venus	102591-01-05 15:21 G	39191658.02	39191658.14	39191658.28	0.0090	0.0072
Venus	102591-08-19 03:49 G	39191883.59	39191883.66	39191883.76	0.0090	0.0083
Mars	102618-12-19 07:25 G	39201866.66	39201866.81	39201866.99	0.0089	0.0073
Mars	102620-11-12 10:18 G	39202560.65	39202560.93	39202561.24	0.0089	0.0023
Mercury	102640-04-28 21:06 G	39209668.35	39209668.38	39209668.43	0.0088	0.0083
Mercury	102640-07-25 22:33 G	39209756.38	39209756.44	39209756.51	0.0088	0.0076
Mercury	102640-10-21 23:30 G	39209844.42	39209844.48	39209844.57	0.0088	0.0070
Mercury	102641-01-18 00:57 G	39209932.46	39209932.54	39209932.64	0.0088	0.0063
Mercury	102641-04-16 02:09 G	39210020.50	39210020.59	39210020.70	0.0088	0.0056
Mercury	102641-07-13 03:35 G	39210108.54	39210108.65	39210108.76	0.0088	0.0049
Mercury	102641-10-09 04:47 G	39210196.59	39210196.70	39210196.82	0.0088	0.0042
Mercury	102642-01-05 05:59 G	39210284.63	39210284.75	39210284.88	0.0088	0.0035
Mercury	102642-04-03 07:11 G	39210372.68	39210372.80	39210372.93	0.0088	0.0029
Mercury	102642-06-30 08:23 G	39210460.73	39210460.85	39210460.99	0.0088	0.0022
Mercury	102642-09-26 09:49 G	39210548.78	39210548.91	39210549.04	0.0088	0.0015
Mercury	102642-12-23 11:01 G	39210636.83	39210636.96	39210637.09	0.0088	0.0008
Mercury	102643-03-21 12:28 G	39210724.88	39210725.02	39210725.15	0.0088	0.0003
Mercury	102643-06-17 13:40 G	39210812.94	39210813.07	39210813.20	0.0088	0.0006
Mercury	102643-09-13 14:52 G	39210900.99	39210901.12	39210901.25	0.0088	0.0013
Mercury	102643-12-10 16:04 G	39210989.04	39210989.17	39210989.30	0.0088	0.0019
Mercury	102644-03-07 17:16 G	39211077.10	39211077.22	39211077.35	0.0088	0.0026

Mercury	102644-06-03 18:28 G	39211165.15	39211165.27	39211165.40	0.0088	0.0033
Mercury	102644-08-30 19:40 G	39211253.21	39211253.32	39211253.45	0.0088	0.0040
Mercury	102644-11-26 20:52 G	39211341.27	39211341.37	39211341.49	0.0088	0.0047
Mercury	102645-02-22 22:04 G	39211429.33	39211429.42	39211429.54	0.0088	0.0054
Mercury	102645-05-21 23:16 G	39211517.39	39211517.47	39211517.58	0.0088	0.0061
Mercury	102645-08-18 00:42 G	39211605.45	39211605.53	39211605.62	0.0088	0.0067
Mercury	102645-11-14 01:54 G	39211693.52	39211693.58	39211693.66	0.0088	0.0074
Mercury	102646-02-10 03:06 G	39211781.59	39211781.63	39211781.69	0.0088	0.0081
Mercury	102646-05-09 04:33 G	39211869.69	39211869.69	39211869.70	0.0088	0.0087
Earth	102664-04-23 00:57 G	39218428.41	39218428.54	39218428.69	0.0088	0.0074
Moon	102664-04-23 04:18 G	39218428.58	39218428.68	39218428.81	0.0088	0.0078 *
Venus	102664-07-01 01:25 G	39218497.52	39218497.56	39218497.65	0.0088	0.0084
Venus	102665-02-11 15:06 G	39218723.03	39218723.13	39218723.27	0.0088	0.0074
Moon	102665-04-25 09:06 G	39218795.69	39218795.88	39218796.11	0.0088	0.0051
Earth	102665-04-25 12:42 G	39218795.84	39218796.03	39218796.24	0.0088	0.0055 *
Venus	102665-09-25 05:01 G	39218948.56	39218948.71	39218948.87	0.0088	0.0063
Earth	102666-04-28 00:28 G	39219163.29	39219163.52	39219163.77	0.0088	0.0036
Moon	102666-04-28 02:52 G	39219163.41	39219163.62	39219163.88	0.0088	0.0041 *
Venus	102666-05-08 18:13 G	39219174.09	39219174.26	39219174.45	0.0088	0.0053
Venus	102666-12-20 07:25 G	39219399.63	39219399.81	39219400.03	0.0088	0.0043
Moon	102667-04-30 11:16 G	39219530.72	39219530.97	39219531.22	0.0088	0.0013
Earth	102667-04-30 12:28 G	39219530.77	39219531.02	39219531.29	0.0088	0.0017 *
Venus	102667-08-02 21:21 G	39219625.18	39219625.39	39219625.60	0.0088	0.0032
Venus	102668-03-15 10:47 G	39219850.74	39219850.95	39219851.18	0.0088	0.0022
Earth	102668-05-02 00:42 G	39219898.26	39219898.53	39219898.79	0.0088	0.0003
Moon	102668-05-02 01:25 G	39219898.29	39219898.56	39219898.83	0.0088	0.0002 *
Venus	102668-10-27 00:28 G	39220076.29	39220076.52	39220076.74	0.0088	0.0011
Earth	102669-05-04 12:28 G	39220265.77	39220266.02	39220266.28	0.0088	0.0022
Moon	102669-05-04 13:11 G	39220265.82	39220266.05	39220266.31	0.0088	0.0027 *
Venus	102669-06-09 13:54 G	39220301.85	39220302.08	39220302.31	0.0088	0.0001

Venus	102670-01-21 03:21 G	39220527.42	39220527.64	39220527.87	0.0088	0.0010
Moon	102670-05-06 22:18 G	39220633.20	39220633.43	39220633.69	0.0088	0.0038
Earth	102670-05-07 00:13 G	39220633.30	39220633.51	39220633.76	0.0088	0.0042 *
Venus	102670-09-03 17:01 G	39220752.99	39220753.21	39220753.43	0.0088	0.0020
Venus	102671-04-17 06:13 G	39220978.56	39220978.76	39220978.99	0.0088	0.0031
Earth	102671-05-09 12:28 G	39221000.85	39221001.02	39221001.23	0.0088	0.0061
Moon	102671-05-09 14:52 G	39221000.98	39221001.12	39221001.32	0.0088	0.0066 *
Venus	102671-11-28 19:54 G	39221204.14	39221204.33	39221204.53	0.0088	0.0041
Moon	102672-05-10 20:52 G	39221368.27	39221368.37	39221368.53	0.0088	0.0076
Earth	102672-05-11 00:57 G	39221368.45	39221368.54	39221368.66	0.0088	0.0080 *
Venus	102672-07-11 09:06 G	39221429.72	39221429.88	39221430.08	0.0088	0.0052
Venus	102673-02-21 22:47 G	39221655.31	39221655.45	39221655.63	0.0088	0.0062
Venus	102673-10-05 12:42 G	39221880.91	39221881.03	39221881.16	0.0088	0.0072
Venus	102674-05-19 01:40 G	39222106.52	39222106.57	39222106.67	0.0088	0.0083
Mars	102702-10-15 22:47 G	39232482.22	39232482.45	39232482.74	0.0089	0.0054
Mars	102704-09-10 11:45 G	39233177.73	39233177.99	39233178.26	0.0089	0.0052
Mercury	102724-04-04 16:47 G	39240324.19	39240324.20	39240324.26	0.0089	0.0089
Mercury	102724-07-01 20:37 G	39240412.29	39240412.36	39240412.48	0.0089	0.0078
Mercury	102724-09-28 00:42 G	39240500.41	39240500.53	39240500.67	0.0089	0.0067
Mercury	102724-12-25 04:47 G	39240588.55	39240588.70	39240588.85	0.0089	0.0056
Mercury	102725-03-23 08:09 G	39240676.69	39240676.84	39240677.03	0.0090	0.0046
Mercury	102725-06-19 12:13 G	39240764.83	39240765.01	39240765.20	0.0090	0.0034
Mercury	102725-09-15 16:04 G	39240852.98	39240853.17	39240853.36	0.0090	0.0024
Mercury	102725-12-12 19:54 G	39240941.14	39240941.33	39240941.53	0.0090	0.0013
Mercury	102726-03-10 23:45 G	39241029.29	39241029.49	39241029.69	0.0090	0.0002
Mercury	102726-06-07 03:35 G	39241117.45	39241117.65	39241117.85	0.0090	0.0009
Mercury	102726-09-03 07:11 G	39241205.62	39241205.80	39241206.00	0.0090	0.0020
Mercury	102726-11-30 11:01 G	39241293.78	39241293.96	39241294.15	0.0090	0.0030
Mercury	102727-02-26 14:37 G	39241381.95	39241382.11	39241382.30	0.0090	0.0042
Mercury	102727-05-25 18:42 G	39241470.13	39241470.28	39241470.45	0.0090	0.0052



Mercury	102727-08-21 22:18 G	39241558.30	39241558.43	39241558.58	0.0090	0.0063
Mercury	102727-11-18 02:09 G	39241646.49	39241646.59	39241646.71	0.0090	0.0074
Mercury	102728-02-14 05:45 G	39241734.70	39241734.74	39241734.83	0.0090	0.0085
Earth	102745-10-24 07:11 G	39248196.73	39248196.80	39248196.93	0.0090	0.0083
Moon	102745-10-24 11:16 G	39248196.85	39248196.97	39248197.09	0.0090	0.0079 *
Venus	102746-01-05 06:28 G	39248269.76	39248269.77	39248269.80	0.0090	0.0089
Venus	102746-08-18 18:57 G	39248495.21	39248495.29	39248495.41	0.0090	0.0079
Moon	102746-10-26 15:35 G	39248563.99	39248564.15	39248564.33	0.0090	0.0065
Earth	102746-10-26 18:57 G	39248564.13	39248564.29	39248564.49	0.0090	0.0063 *
Venus	102747-04-01 07:54 G	39248720.69	39248720.83	39248720.97	0.0090	0.0068
Earth	102747-10-29 06:28 G	39248931.57	39248931.77	39248932.01	0.0090	0.0043
Moon	102747-10-29 09:35 G	39248931.69	39248931.90	39248932.15	0.0090	0.0040 *
Venus	102747-11-12 20:09 G	39248946.19	39248946.34	39248946.52	0.0090	0.0058
Venus	102748-06-25 08:52 G	39249171.69	39249171.87	39249172.06	0.0090	0.0047
Moon	102748-10-30 15:49 G	39249298.93	39249299.16	39249299.41	0.0090	0.0026
Earth	102748-10-30 18:13 G	39249299.03	39249299.26	39249299.52	0.0090	0.0023 *
Venus	102749-02-05 21:21 G	39249397.21	39249397.39	39249397.60	0.0090	0.0037
Venus	102749-09-19 10:04 G	39249622.72	39249622.92	39249623.14	0.0090	0.0026
Earth	102749-11-02 05:59 G	39249666.50	39249666.75	39249667.01	0.0090	0.0002
Moon	102749-11-02 07:25 G	39249666.55	39249666.81	39249667.07	0.0090	0.0001 *
Venus	102750-05-02 22:33 G	39249848.24	39249848.44	39249848.66	0.0090	0.0016
Earth	102750-11-04 17:16 G	39250033.98	39250034.22	39250034.48	0.0090	0.0018
Moon	102750-11-04 17:16 G	39250033.99	39250034.22	39250034.47	0.0090	0.0016 *
Venus	102750-12-14 11:16 G	39250073.76	39250073.97	39250074.19	0.0090	0.0005
Venus	102751-07-27 23:59 G	39250299.29	39250299.50	39250299.71	0.0090	0.0006
Moon	102751-11-07 03:35 G	39250401.43	39250401.65	39250401.90	0.0090	0.0042
Earth	102751-11-07 04:18 G	39250401.47	39250401.68	39250401.93	0.0090	0.0039 *
Venus	102752-03-09 12:28 G	39250524.81	39250525.02	39250525.23	0.0090	0.0017
Venus	102752-10-21 00:42 G	39250750.34	39250750.53	39250750.75	0.0090	0.0028
Earth	102752-11-08 15:21 G	39250768.98	39250769.14	39250769.36	0.0090	0.0059

Moon	102752-11-08 17:45 G	39250769.07	39250769.24	39250769.46	0.0090	0.0056 *
Venus	102753-06-03 13:25 G	39250975.87	39250976.06	39250976.26	0.0090	0.0038
Moon	102753-11-10 23:45 G	39251136.40	39251136.49	39251136.62	0.0090	0.0081
Earth	102753-11-11 03:06 G	39251136.52	39251136.63	39251136.76	0.0090	0.0078 *
Venus	102754-01-15 01:40 G	39251201.40	39251201.57	39251201.76	0.0090	0.0049
Venus	102754-08-28 14:23 G	39251426.95	39251427.10	39251427.27	0.0090	0.0059
Venus	102755-04-11 02:37 G	39251652.50	39251652.61	39251652.77	0.0090	0.0070
Venus	102755-11-22 15:21 G	39251878.06	39251878.14	39251878.25	0.0090	0.0080
Jupiter	102773-07-21 20:52 G	39258328.88	39258329.37	39258329.90	0.0089	0.0021
Mars	102784-06-28 12:42 G	39262323.73	39262324.03	39262324.33	0.0089	0.0010
Mars	102786-05-23 15:49 G	39263018.12	39263018.16	39263018.24	0.0088	0.0087
Mercury	102804-10-28 19:40 G	39269751.31	39269751.32	39269751.34	0.0088	0.0087
Mercury	102805-01-24 20:52 G	39269839.33	39269839.37	39269839.43	0.0088	0.0080
Mercury	102805-04-22 22:18 G	39269927.36	39269927.43	39269927.50	0.0088	0.0073
Mercury	102805-07-19 23:16 G	39270015.40	39270015.47	39270015.57	0.0088	0.0067
Mercury	102805-10-16 00:42 G	39270103.44	39270103.53	39270103.63	0.0088	0.0060
Mercury	102806-01-12 01:54 G	39270191.48	39270191.58	39270191.69	0.0088	0.0053
Mercury	102806-04-10 03:21 G	39270279.53	39270279.64	39270279.75	0.0088	0.0046
Mercury	102806-07-07 04:33 G	39270367.58	39270367.69	39270367.81	0.0088	0.0039
Mercury	102806-10-03 05:45 G	39270455.62	39270455.74	39270455.87	0.0088	0.0033
Mercury	102806-12-30 06:57 G	39270543.67	39270543.79	39270543.92	0.0088	0.0026
Mercury	102807-03-28 08:23 G	39270631.72	39270631.85	39270631.98	0.0088	0.0019
Mercury	102807-06-24 09:35 G	39270719.77	39270719.90	39270720.03	0.0088	0.0012
Mercury	102807-09-20 10:47 G	39270807.82	39270807.95	39270808.09	0.0088	0.0006
Mercury	102807-12-17 11:59 G	39270895.87	39270896.00	39270896.14	0.0088	0.0004
Mercury	102808-03-14 13:25 G	39270983.93	39270984.06	39270984.19	0.0088	0.0009
Mercury	102808-06-10 14:37 G	39271071.98	39271072.11	39271072.24	0.0088	0.0015
Mercury	102808-09-06 15:49 G	39271160.03	39271160.16	39271160.29	0.0088	0.0022
Mercury	102808-12-03 17:01 G	39271248.09	39271248.21	39271248.34	0.0088	0.0029
Mercury	102809-03-01 18:13 G	39271336.15	39271336.26	39271336.39	0.0088	0.0036

Mercury	102809-05-28 19:25 G	39271424.20	39271424.31	39271424.43	0.0088	0.0043
Mercury	102809-08-24 20:37 G	39271512.26	39271512.36	39271512.48	0.0088	0.0050
Mercury	102809-11-20 22:04 G	39271600.32	39271600.42	39271600.52	0.0088	0.0056
Mercury	102810-02-16 23:16 G	39271688.38	39271688.47	39271688.56	0.0088	0.0063
Mercury	102810-05-16 00:28 G	39271776.45	39271776.52	39271776.60	0.0088	0.0070
Mercury	102810-08-12 01:25 G	39271864.51	39271864.56	39271864.64	0.0088	0.0077
Mercury	102810-11-08 03:06 G	39271952.59	39271952.63	39271952.67	0.0088	0.0083
Moon	102828-04-23 06:57 G	39278328.75	39278328.79	39278328.90	0.0088	0.0084
Earth	102828-04-23 10:04 G	39278328.83	39278328.92	39278329.04	0.0088	0.0080 *
Venus	102828-10-03 11:45 G	39278491.97	39278491.99	39278492.06	0.0088	0.0086
Earth	102829-04-25 21:49 G	39278696.24	39278696.41	39278696.61	0.0088	0.0061
Moon	102829-04-25 23:45 G	39278696.32	39278696.49	39278696.72	0.0088	0.0059 *
Venus	102829-05-17 01:11 G	39278717.46	39278717.55	39278717.68	0.0088	0.0076
Venus	102829-12-28 14:37 G	39278942.98	39278943.11	39278943.28	0.0088	0.0066
Moon	102830-04-28 08:37 G	39279063.66	39279063.86	39279064.10	0.0088	0.0045
Earth	102830-04-28 09:35 G	39279063.69	39279063.90	39279064.15	0.0088	0.0042 *
Venus	102830-08-11 04:18 G	39279168.52	39279168.68	39279168.87	0.0088	0.0055
Venus	102831-03-24 17:45 G	39279394.06	39279394.24	39279394.45	0.0088	0.0045
Moon	102831-04-30 20:52 G	39279431.12	39279431.37	39279431.65	0.0088	0.0020
Earth	102831-04-30 21:35 G	39279431.16	39279431.40	39279431.66	0.0088	0.0023 *
Venus	102831-11-05 07:11 G	39279619.61	39279619.80	39279620.02	0.0088	0.0035
Earth	102832-05-02 09:49 G	39279798.65	39279798.91	39279799.17	0.0088	0.0003
Moon	102832-05-02 11:01 G	39279798.71	39279798.96	39279799.21	0.0088	0.0005 *
Venus	102832-06-17 20:52 G	39279845.16	39279845.37	39279845.59	0.0088	0.0024
Venus	102833-01-29 10:18 G	39280070.72	39280070.93	39280071.16	0.0088	0.0014
Moon	102833-05-04 18:57 G	39280166.03	39280166.29	39280166.55	0.0088	0.0019
Earth	102833-05-04 21:21 G	39280166.15	39280166.39	39280166.66	0.0088	0.0017 *
Venus	102833-09-11 23:59 G	39280296.28	39280296.50	39280296.73	0.0088	0.0003
Venus	102834-04-25 13:25 G	39280521.84	39280522.06	39280522.29	0.0088	0.0008
Earth	102834-05-07 09:21 G	39280533.67	39280533.89	39280534.14	0.0088	0.0036

Moon	102834-05-07 12:57 G	39280533.81	39280534.04	39280534.28	0.0088	0.0033 *
Venus	102834-12-07 02:52 G	39280747.40	39280747.62	39280747.85	0.0088	0.0018
Moon	102835-05-09 17:59 G	39280901.07	39280901.25	39280901.46	0.0088	0.0057
Earth	102835-05-09 21:35 G	39280901.21	39280901.40	39280901.61	0.0088	0.0055 *
Venus	102835-07-20 16:04 G	39280972.97	39280973.17	39280973.40	0.0088	0.0029
Venus	102836-03-02 05:45 G	39281198.56	39281198.74	39281198.96	0.0088	0.0039
Earth	102836-05-11 09:06 G	39281268.77	39281268.88	39281269.05	0.0088	0.0075
Moon	102836-05-11 12:42 G	39281268.92	39281269.03	39281269.21	0.0088	0.0073 *
Venus	102836-10-13 19:25 G	39281424.13	39281424.31	39281424.51	0.0088	0.0049
Venus	102837-05-27 08:37 G	39281649.72	39281649.86	39281650.05	0.0088	0.0060
Venus	102838-01-07 22:18 G	39281875.31	39281875.43	39281875.58	0.0088	0.0070
Venus	102838-08-21 11:59 G	39282100.92	39282101.00	39282101.10	0.0088	0.0080
Mars	102868-04-24 15:35 G	39292939.84	39292940.15	39292940.48	0.0089	0.0018
Mercury	102888-12-30 15:21 G	39300495.09	39300495.14	39300495.23	0.0089	0.0084
Mercury	102889-03-28 19:25 G	39300583.21	39300583.31	39300583.43	0.0089	0.0073
Mercury	102889-06-24 23:30 G	39300671.34	39300671.48	39300671.62	0.0089	0.0062
Mercury	102889-09-21 02:52 G	39300759.47	39300759.62	39300759.80	0.0089	0.0052
Mercury	102889-12-18 06:42 G	39300847.62	39300847.78	39300847.97	0.0089	0.0041
Mercury	102890-03-16 10:47 G	39300935.77	39300935.95	39300936.14	0.0089	0.0030
Mercury	102890-06-12 14:37 G	39301023.92	39301024.11	39301024.30	0.0090	0.0019
Mercury	102890-09-08 18:28 G	39301112.07	39301112.27	39301112.47	0.0090	0.0008
Mercury	102890-12-05 22:18 G	39301200.23	39301200.43	39301200.63	0.0090	0.0003
Mercury	102891-03-04 01:54 G	39301288.39	39301288.58	39301288.78	0.0090	0.0014
Mercury	102891-05-31 05:45 G	39301376.56	39301376.74	39301376.94	0.0090	0.0024
Mercury	102891-08-27 09:21 G	39301464.73	39301464.89	39301465.09	0.0090	0.0036
Mercury	102891-11-23 13:25 G	39301552.90	39301553.06	39301553.23	0.0090	0.0046
Mercury	102892-02-19 17:16 G	39301641.07	39301641.22	39301641.38	0.0090	0.0057
Mercury	102892-05-17 20:52 G	39301729.26	39301729.37	39301729.51	0.0090	0.0068
Mercury	102892-08-14 00:28 G	39301817.45	39301817.52	39301817.64	0.0090	0.0079
Mercury	102892-11-10 04:47 G	39301905.69	39301905.70	39301905.72	0.0090	0.0089

Moon	102909-10-24 14:09 G	39308097.04	39308097.09	39308097.20	0.0090	0.0085
Earth	102909-10-24 17:30 G	39308097.22	39308097.23	39308097.29	0.0090	0.0089
Earth	102910-10-27 05:01 G	39308464.56	39308464.71	39308464.89	0.0090	0.0069
Moon	102910-10-27 08:09 G	39308464.69	39308464.84	39308464.99	0.0090	0.0073 *
Venus	102910-11-21 06:42 G	39308489.70	39308489.78	39308489.88	0.0090	0.0081
Venus	102911-07-04 18:57 G	39308715.18	39308715.29	39308715.44	0.0090	0.0071
Moon	102911-10-29 15:21 G	39308831.94	39308832.14	39308832.37	0.0090	0.0045
Earth	102911-10-29 16:33 G	39308831.99	39308832.19	39308832.42	0.0090	0.0049 *
Venus	102912-02-15 07:54 G	39308940.68	39308940.83	39308940.99	0.0090	0.0060
Venus	102912-09-27 20:09 G	39309166.18	39309166.34	39309166.54	0.0090	0.0050
Earth	102912-10-31 04:04 G	39309199.44	39309199.67	39309199.92	0.0090	0.0029
Moon	102912-10-31 04:33 G	39309199.46	39309199.69	39309199.95	0.0090	0.0033 *
Venus	102913-05-11 08:52 G	39309391.69	39309391.87	39309392.07	0.0090	0.0039
Earth	102913-11-02 15:35 G	39309566.91	39309567.15	39309567.41	0.0090	0.0009
Moon	102913-11-02 16:47 G	39309566.95	39309567.20	39309567.44	0.0090	0.0004 *
Venus	102913-12-22 21:21 G	39309617.20	39309617.39	39309617.61	0.0090	0.0029
Venus	102914-08-05 10:18 G	39309842.72	39309842.93	39309843.14	0.0090	0.0018
Moon	102914-11-05 00:42 G	39309934.28	39309934.53	39309934.80	0.0090	0.0008
Earth	102914-11-05 03:06 G	39309934.38	39309934.63	39309934.89	0.0090	0.0012 *
Venus	102915-03-18 22:47 G	39310068.24	39310068.45	39310068.67	0.0090	0.0008
Venus	102915-10-30 11:30 G	39310293.76	39310293.98	39310294.19	0.0090	0.0004
Earth	102915-11-07 14:37 G	39310301.87	39310302.11	39310302.35	0.0090	0.0032
Moon	102915-11-07 16:47 G	39310302.00	39310302.20	39310302.45	0.0090	0.0037 *
Venus	102916-06-11 23:45 G	39310519.29	39310519.49	39310519.71	0.0090	0.0015
Moon	102916-11-08 22:04 G	39310669.22	39310669.42	39310669.65	0.0090	0.0048
Earth	102916-11-09 01:25 G	39310669.38	39310669.56	39310669.79	0.0090	0.0053 *
Venus	102917-01-23 12:28 G	39310744.81	39310745.02	39310745.23	0.0090	0.0025
Venus	102917-09-06 00:57 G	39310970.35	39310970.54	39310970.75	0.0090	0.0035
Earth	102917-11-11 12:57 G	39311036.90	39311037.04	39311037.20	0.0090	0.0072
Moon	102917-11-11 16:04 G	39311037.06	39311037.17	39311037.32	0.0090	0.0077 *

Venus	102918-04-19 13:25 G	39311195.89	39311196.06	39311196.25	0.0090	0.0046
Moon	102918-11-13 20:23 G	39311404.34	39311404.35	39311404.43	0.0090	0.0089
Venus	102918-12-01 01:40 G	39311421.42	39311421.57	39311421.76	0.0090	0.0057
Venus	102919-07-14 14:23 G	39311646.97	39311647.10	39311647.25	0.0090	0.0067
Venus	102920-02-25 02:37 G	39311872.52	39311872.61	39311872.74	0.0090	0.0078
Venus	102920-10-07 15:21 G	39312098.11	39312098.14	39312098.19	0.0090	0.0088
Jupiter	102939-09-13 04:18 G	39319012.66	39319012.68	39319012.82	0.0089	0.0088
Mars	102948-02-12 18:42 G	39322087.04	39322087.28	39322087.56	0.0089	0.0042
Mars	102950-01-06 18:57 G	39322781.08	39322781.29	39322781.56	0.0089	0.0055
Mercury	102969-07-26 19:25 G	39329922.28	39329922.31	39329922.36	0.0088	0.0084
Mercury	102969-10-22 20:37 G	39330010.31	39330010.36	39330010.44	0.0088	0.0077
Mercury	102970-01-18 22:04 G	39330098.35	39330098.42	39330098.50	0.0088	0.0070
Mercury	102970-04-16 23:30 G	39330186.39	39330186.48	39330186.57	0.0088	0.0063
Mercury	102970-07-14 00:42 G	39330274.43	39330274.53	39330274.63	0.0088	0.0056
Mercury	102970-10-10 01:40 G	39330362.47	39330362.57	39330362.69	0.0088	0.0050
Mercury	102971-01-06 03:06 G	39330450.52	39330450.63	39330450.75	0.0088	0.0043
Mercury	102971-04-04 04:18 G	39330538.57	39330538.68	39330538.81	0.0088	0.0036
Mercury	102971-07-01 05:45 G	39330626.62	39330626.74	39330626.86	0.0088	0.0029
Mercury	102971-09-27 06:57 G	39330714.66	39330714.79	39330714.92	0.0088	0.0022
Mercury	102971-12-24 08:09 G	39330802.71	39330802.84	39330802.97	0.0088	0.0016
Mercury	102972-03-21 09:35 G	39330890.77	39330890.90	39330891.03	0.0088	0.0009
Mercury	102972-06-17 10:47 G	39330978.82	39330978.95	39330979.08	0.0088	0.0002
Mercury	102972-09-13 11:59 G	39331066.87	39331067.00	39331067.13	0.0088	0.0005
Mercury	102972-12-10 13:11 G	39331154.92	39331155.05	39331155.18	0.0088	0.0012
Mercury	102973-03-08 14:23 G	39331242.98	39331243.10	39331243.23	0.0088	0.0019
Mercury	102973-06-04 15:35 G	39331331.03	39331331.15	39331331.28	0.0088	0.0026
Mercury	102973-08-31 17:01 G	39331419.09	39331419.21	39331419.33	0.0088	0.0032
Mercury	102973-11-27 18:13 G	39331507.14	39331507.26	39331507.38	0.0088	0.0039
Mercury	102974-02-23 19:25 G	39331595.20	39331595.31	39331595.42	0.0088	0.0046
Mercury	102974-05-22 20:23 G	39331683.26	39331683.35	39331683.47	0.0088	0.0053

Mercury	102974-08-18 21:35 G	39331771.32	39331771.40	39331771.51	0.0088	0.0060
Mercury	102974-11-14 23:01 G	39331859.38	39331859.46	39331859.55	0.0088	0.0066
Mercury	102975-02-11 00:13 G	39331947.45	39331947.51	39331947.59	0.0088	0.0073
Mercury	102975-05-10 01:25 G	39332035.52	39332035.56	39332035.62	0.0088	0.0080
Mercury	102975-08-06 02:37 G	39332123.60	39332123.61	39332123.64	0.0088	0.0087
Earth	102992-04-23 18:57 G	39338229.26	39338229.29	39338229.36	0.0088	0.0086
Moon	102992-04-23 19:25 G	39338229.26	39338229.31	39338229.41	0.0088	0.0084 *
Earth	102993-04-26 06:42 G	39338596.64	39338596.78	39338596.97	0.0088	0.0067
Moon	102993-04-26 07:25 G	39338596.67	39338596.81	39338596.98	0.0088	0.0069 *
Venus	102993-08-19 11:30 G	39338711.89	39338711.98	39338712.10	0.0088	0.0078
Venus	102994-04-02 00:42 G	39338937.41	39338937.53	39338937.70	0.0088	0.0068
Moon	102994-04-28 17:16 G	39338964.01	39338964.22	39338964.47	0.0088	0.0045
Earth	102994-04-28 18:42 G	39338964.08	39338964.28	39338964.52	0.0088	0.0048 *
Venus	102994-11-13 14:37 G	39339162.95	39339163.11	39339163.29	0.0088	0.0057
Earth	102995-05-01 06:57 G	39339331.55	39339331.79	39339332.04	0.0088	0.0028
Moon	102995-05-01 09:35 G	39339331.68	39339331.90	39339332.15	0.0088	0.0031 *
Venus	102995-06-27 04:04 G	39339388.49	39339388.67	39339388.87	0.0088	0.0047
Venus	102996-02-07 17:30 G	39339614.04	39339614.23	39339614.45	0.0088	0.0037
Moon	102996-05-02 15:35 G	39339698.89	39339699.15	39339699.42	0.0088	0.0006
Earth	102996-05-02 18:57 G	39339699.03	39339699.29	39339699.55	0.0088	0.0009 *
Venus	102996-09-20 07:11 G	39339839.59	39339839.80	39339840.02	0.0088	0.0026
Venus	102997-05-03 20:37 G	39340065.14	39340065.36	39340065.58	0.0088	0.0016
Earth	102997-05-05 06:42 G	39340066.53	39340066.78	39340067.05	0.0088	0.0011
Moon	102997-05-05 10:33 G	39340066.68	39340066.94	39340067.20	0.0088	0.0007 *
Venus	102997-12-15 10:04 G	39340290.70	39340290.92	39340291.15	0.0088	0.0005
Moon	102998-05-07 15:06 G	39340433.91	39340434.13	39340434.39	0.0088	0.0033
Earth	102998-05-07 18:42 G	39340434.04	39340434.28	39340434.54	0.0088	0.0030 *
Venus	102998-07-28 23:30 G	39340516.26	39340516.48	39340516.71	0.0088	0.0005
Venus	102999-03-11 12:57 G	39340741.83	39340742.04	39340742.27	0.0088	0.0016
Earth	102999-05-10 06:13 G	39340801.57	39340801.76	39340802.00	0.0088	0.0050

Moon	102999-05-10 09:35 G	39340801.68	39340801.90	39340802.13	0.0088	0.0046	*
Venus	102999-10-23 02:37 G	39340967.40	39340967.61	39340967.83	0.0088	0.0026	
Moon	103000-05-12 15:49 G	39341169.05	39341169.16	39341169.34	0.0088	0.0073	
Earth	103000-05-12 18:28 G	39341169.13	39341169.27	39341169.45	0.0088	0.0069	*
Venus	103000-06-05 15:49 G	39341192.97	39341193.16	39341193.38	0.0088	0.0037	

# 104TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 104th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	103001-01-17 05:16 G		39341418.55	39341418.72	39341418.93	0.0088	0.0047	
Moon	103001-05-15 07:11 G		39341536.75	39341536.80	39341536.89	0.0088	0.0085	
Venus	103001-08-30 19:11 G		39341644.13	39341644.30	39341644.47	0.0088	0.0057	
Venus	103002-04-13 08:23 G		39341869.73	39341869.85	39341870.01	0.0088	0.0068	
Venus	103002-11-24 21:49 G		39342095.33	39342095.41	39342095.53	0.0088	0.0078	
Mars	103031-12-09 17:45 G		39352701.92	39352702.24	39352702.57	0.0089	0.0018	
Mars	103033-11-04 06:57 G		39353397.79	39353397.79	39353397.85	0.0089	0.0089	
Mercury	103053-07-02 10:33 G		39360577.93	39360577.94	39360577.97	0.0089	0.0089	
Mercury	103053-09-28 13:54 G		39360666.01	39360666.08	39360666.20	0.0089	0.0079	
Mercury	103053-12-25 17:59 G		39360754.13	39360754.25	39360754.39	0.0089	0.0068	
Mercury	103054-03-23 21:49 G		39360842.27	39360842.41	39360842.57	0.0089	0.0057	
Mercury	103054-06-20 01:25 G		39360930.41	39360930.56	39360930.75	0.0090	0.0047	
Mercury	103054-09-16 05:30 G		39361018.56	39361018.73	39361018.92	0.0090	0.0035	



Mercury	103054-12-13 09:21 G	39361106.71	39361106.89	39361107.09	0.0090	0.0025
Mercury	103055-03-11 13:11 G	39361194.86	39361195.05	39361195.25	0.0090	0.0014
Mercury	103055-06-07 17:01 G	39361283.02	39361283.21	39361283.41	0.0090	0.0003
Mercury	103055-09-03 20:52 G	39361371.18	39361371.37	39361371.57	0.0090	0.0008
Mercury	103055-12-01 00:42 G	39361459.34	39361459.53	39361459.72	0.0090	0.0019
Mercury	103056-02-27 04:18 G	39361547.50	39361547.68	39361547.88	0.0090	0.0030
Mercury	103056-05-25 08:09 G	39361635.67	39361635.84	39361636.03	0.0090	0.0040
Mercury	103056-08-21 12:13 G	39361723.85	39361724.01	39361724.17	0.0090	0.0051
Mercury	103056-11-17 15:49 G	39361812.03	39361812.16	39361812.31	0.0090	0.0062
Mercury	103057-02-13 19:25 G	39361900.21	39361900.31	39361900.44	0.0090	0.0073
Mercury	103057-05-12 23:16 G	39361988.42	39361988.47	39361988.56	0.0090	0.0084
Earth	103074-10-27 15:21 G	39368365.02	39368365.14	39368365.29	0.0090	0.0075
Moon	103074-10-27 16:47 G	39368365.08	39368365.20	39368365.33	0.0090	0.0077 *
Venus	103075-02-23 18:13 G	39368484.21	39368484.26	39368484.36	0.0090	0.0084
Venus	103075-10-07 06:57 G	39368709.68	39368709.79	39368709.93	0.0090	0.0073
Moon	103075-10-29 23:59 G	39368732.31	39368732.50	39368732.73	0.0090	0.0052
Earth	103075-10-30 02:52 G	39368732.44	39368732.62	39368732.84	0.0090	0.0055 *
Venus	103076-05-19 19:11 G	39368935.17	39368935.30	39368935.48	0.0090	0.0063
Earth	103076-10-31 14:23 G	39369099.88	39369100.10	39369100.35	0.0090	0.0035
Moon	103076-10-31 17:30 G	39369100.02	39369100.23	39369100.47	0.0090	0.0038 *
Venus	103076-12-31 08:09 G	39369160.67	39369160.84	39369161.02	0.0090	0.0052
Venus	103077-08-13 20:37 G	39369386.19	39369386.36	39369386.57	0.0090	0.0042
Moon	103077-11-02 22:18 G	39369467.18	39369467.43	39369467.69	0.0090	0.0013
Earth	103077-11-03 01:54 G	39369467.33	39369467.58	39369467.84	0.0090	0.0015 *
Venus	103078-03-27 09:21 G	39369611.70	39369611.89	39369612.10	0.0090	0.0031
Earth	103078-11-05 13:25 G	39369834.81	39369835.06	39369835.31	0.0090	0.0006
Moon	103078-11-05 16:47 G	39369834.95	39369835.20	39369835.46	0.0090	0.0004 *
Venus	103078-11-07 22:04 G	39369837.21	39369837.42	39369837.63	0.0090	0.0020
Venus	103079-06-21 10:33 G	39370062.73	39370062.94	39370063.16	0.0090	0.0009
Moon	103079-11-07 22:18 G	39370202.21	39370202.43	39370202.68	0.0090	0.0029

Earth	103079-11-08 00:57 G	39370202.30	39370202.54	39370202.79	0.0090	0.0026	*
Venus	103080-02-01 23:16 G	39370288.25	39370288.47	39370288.68	0.0090	0.0002	
Venus	103080-09-14 11:59 G	39370513.78	39370514.00	39370514.21	0.0090	0.0012	
Earth	103080-11-09 12:28 G	39370569.80	39370570.02	39370570.23	0.0090	0.0046	
Moon	103080-11-09 13:54 G	39370569.87	39370570.08	39370570.33	0.0090	0.0045	*
Venus	103081-04-28 00:13 G	39370739.31	39370739.51	39370739.73	0.0090	0.0023	
Earth	103081-11-11 23:45 G	39370937.32	39370937.49	39370937.66	0.0090	0.0066	
Moon	103081-11-11 23:16 G	39370937.33	39370937.47	39370937.64	0.0090	0.0069	*
Venus	103081-12-09 12:57 G	39370964.84	39370965.04	39370965.24	0.0090	0.0033	
Venus	103082-07-23 01:11 G	39371190.38	39371190.55	39371190.75	0.0090	0.0044	
Moon	103082-11-14 09:21 G	39371304.83	39371304.89	39371305.01	0.0090	0.0084	
Earth	103082-11-14 10:18 G	39371304.90	39371304.93	39371305.03	0.0090	0.0087	*
Venus	103083-03-05 13:40 G	39371415.92	39371416.07	39371416.26	0.0090	0.0055	
Venus	103083-10-17 02:23 G	39371641.46	39371641.60	39371641.76	0.0090	0.0065	
Venus	103084-05-29 15:06 G	39371867.02	39371867.13	39371867.25	0.0090	0.0075	
Venus	103085-01-10 03:06 G	39372092.59	39372092.63	39372092.71	0.0090	0.0086	
Mars	103111-09-30 02:52 G	39381850.45	39381850.62	39381850.80	0.0089	0.0072	
Mars	103113-08-24 02:09 G	39382544.32	39382544.59	39382544.90	0.0089	0.0023	
Mercury	103134-01-26 18:13 G	39390005.25	39390005.26	39390005.28	0.0088	0.0087	
Mercury	103134-04-24 19:11 G	39390093.27	39390093.30	39390093.37	0.0088	0.0081	
Mercury	103134-07-21 20:37 G	39390181.30	39390181.36	39390181.44	0.0088	0.0074	
Mercury	103134-10-17 21:49 G	39390269.34	39390269.41	39390269.51	0.0088	0.0067	
Mercury	103135-01-13 23:16 G	39390357.38	39390357.47	39390357.57	0.0088	0.0060	
Mercury	103135-04-12 00:28 G	39390445.42	39390445.52	39390445.63	0.0088	0.0053	
Mercury	103135-07-09 01:54 G	39390533.47	39390533.58	39390533.69	0.0088	0.0046	
Mercury	103135-10-05 02:52 G	39390621.51	39390621.62	39390621.75	0.0088	0.0040	
Mercury	103136-01-01 04:18 G	39390709.56	39390709.68	39390709.80	0.0088	0.0033	
Mercury	103136-03-29 05:30 G	39390797.61	39390797.73	39390797.86	0.0088	0.0026	
Mercury	103136-06-25 06:57 G	39390885.66	39390885.79	39390885.92	0.0088	0.0019	
Mercury	103136-09-21 08:09 G	39390973.71	39390973.84	39390973.97	0.0088	0.0012	

Mercury	103136-12-18 09:21 G	39391061.76	39391061.89	39391062.02	0.0088	0.0005
Mercury	103137-03-16 10:33 G	39391149.81	39391149.94	39391150.08	0.0088	0.0003
Mercury	103137-06-12 11:45 G	39391237.86	39391237.99	39391238.13	0.0088	0.0009
Mercury	103137-09-08 13:11 G	39391325.92	39391326.05	39391326.18	0.0088	0.0015
Mercury	103137-12-05 14:23 G	39391413.97	39391414.10	39391414.23	0.0088	0.0022
Mercury	103138-03-03 15:35 G	39391502.03	39391502.15	39391502.28	0.0088	0.0029
Mercury	103138-05-30 16:33 G	39391590.08	39391590.19	39391590.32	0.0088	0.0036
Mercury	103138-08-26 17:59 G	39391678.14	39391678.25	39391678.37	0.0088	0.0042
Mercury	103138-11-22 19:11 G	39391766.20	39391766.30	39391766.42	0.0088	0.0049
Mercury	103139-02-18 20:23 G	39391854.26	39391854.35	39391854.46	0.0088	0.0056
Mercury	103139-05-17 21:35 G	39391942.32	39391942.40	39391942.50	0.0088	0.0063
Mercury	103139-08-13 23:01 G	39392030.38	39392030.46	39392030.54	0.0088	0.0069
Mercury	103139-11-10 00:13 G	39392118.45	39392118.51	39392118.58	0.0088	0.0076
Mercury	103140-02-06 01:11 G	39392206.52	39392206.55	39392206.61	0.0088	0.0083
Moon	103157-04-27 16:18 G	39398497.05	39398497.18	39398497.35	0.0088	0.0071
Earth	103157-04-27 16:33 G	39398497.07	39398497.19	39398497.36	0.0088	0.0073 *
Venus	103157-11-22 21:49 G	39398706.34	39398706.41	39398706.52	0.0088	0.0080
Moon	103158-04-30 03:06 G	39398864.45	39398864.63	39398864.87	0.0088	0.0056
Earth	103158-04-30 05:01 G	39398864.50	39398864.71	39398864.92	0.0088	0.0053 *
Venus	103158-07-06 11:16 G	39398931.86	39398931.97	39398932.13	0.0088	0.0070
Venus	103159-02-17 01:25 G	39399157.39	39399157.56	39399157.72	0.0088	0.0059
Earth	103159-05-02 16:33 G	39399231.96	39399232.19	39399232.44	0.0088	0.0034
Moon	103159-05-02 18:13 G	39399232.04	39399232.26	39399232.51	0.0088	0.0033 *
Venus	103159-09-30 14:37 G	39399382.93	39399383.11	39399383.31	0.0088	0.0049
Moon	103160-05-04 01:11 G	39399599.30	39399599.55	39399599.83	0.0088	0.0017
Earth	103160-05-04 04:33 G	39399599.44	39399599.69	39399599.96	0.0088	0.0015 *
Venus	103160-05-13 04:04 G	39399608.48	39399608.67	39399608.88	0.0088	0.0039
Venus	103160-12-24 17:45 G	39399834.03	39399834.24	39399834.45	0.0088	0.0028
Earth	103161-05-06 16:33 G	39399966.94	39399967.19	39399967.46	0.0088	0.0006
Moon	103161-05-06 20:09 G	39399967.09	39399967.34	39399967.60	0.0088	0.0008 *

Venus	103161-08-07 07:11 G	39400059.58	39400059.80	39400060.02	0.0088	0.0018
Venus	103162-03-20 20:37 G	39400285.14	39400285.36	39400285.59	0.0088	0.0008
Moon	103162-05-09 00:42 G	39400334.29	39400334.53	39400334.79	0.0088	0.0024
Earth	103162-05-09 04:18 G	39400334.44	39400334.68	39400334.94	0.0088	0.0025 *
Venus	103162-11-01 10:18 G	39400510.70	39400510.93	39400511.15	0.0088	0.0003
Earth	103163-05-11 16:18 G	39400701.96	39400702.18	39400702.41	0.0088	0.0044
Moon	103163-05-11 19:25 G	39400702.10	39400702.31	39400702.55	0.0088	0.0046 *
Venus	103163-06-14 23:30 G	39400736.26	39400736.48	39400736.71	0.0088	0.0014
Venus	103164-01-26 12:57 G	39400961.83	39400962.04	39400962.27	0.0088	0.0024
Moon	103164-05-13 02:09 G	39401069.43	39401069.59	39401069.79	0.0088	0.0062
Earth	103164-05-13 03:49 G	39401069.51	39401069.66	39401069.87	0.0088	0.0064 *
Venus	103164-09-08 02:37 G	39401187.40	39401187.61	39401187.82	0.0088	0.0034
Venus	103165-04-21 15:49 G	39401412.98	39401413.16	39401413.37	0.0088	0.0045
Earth	103165-05-15 15:49 G	39401437.10	39401437.16	39401437.27	0.0088	0.0083
Moon	103165-05-15 17:01 G	39401437.16	39401437.21	39401437.32	0.0088	0.0084 *
Venus	103165-12-03 05:16 G	39401638.56	39401638.72	39401638.91	0.0088	0.0055
Venus	103166-07-16 18:57 G	39401864.15	39401864.29	39401864.44	0.0088	0.0065
Venus	103167-02-27 08:09 G	39402089.75	39402089.84	39402089.98	0.0088	0.0076
Venus	103167-10-10 21:49 G	39402315.38	39402315.41	39402315.47	0.0088	0.0086
Mars	103195-07-24 17:45 G	39412464.00	39412464.24	39412464.53	0.0089	0.0054
Mars	103197-06-19 10:18 G	39413159.70	39413159.93	39413160.22	0.0089	0.0054
Mercury	103218-03-30 09:06 G	39420748.83	39420748.88	39420748.96	0.0089	0.0084
Mercury	103218-06-26 13:11 G	39420836.94	39420837.05	39420837.16	0.0089	0.0073
Mercury	103218-09-22 16:33 G	39420925.07	39420925.19	39420925.35	0.0089	0.0063
Mercury	103218-12-19 20:37 G	39421013.21	39421013.36	39421013.53	0.0089	0.0052
Mercury	103219-03-18 00:28 G	39421101.35	39421101.52	39421101.70	0.0089	0.0041
Mercury	103219-06-14 04:04 G	39421189.50	39421189.67	39421189.87	0.0090	0.0031
Mercury	103219-09-10 07:54 G	39421277.65	39421277.83	39421278.03	0.0090	0.0020
Mercury	103219-12-07 11:59 G	39421365.80	39421366.00	39421366.20	0.0090	0.0008
Mercury	103220-03-04 15:49 G	39421453.96	39421454.16	39421454.36	0.0090	0.0002

Mercury	103220-05-31 19:25 G	39421542.12	39421542.31	39421542.51	0.0090	0.0014
Mercury	103220-08-27 23:30 G	39421630.29	39421630.48	39421630.67	0.0090	0.0024
Mercury	103220-11-24 03:06 G	39421718.46	39421718.63	39421718.82	0.0090	0.0035
Mercury	103221-02-20 06:57 G	39421806.63	39421806.79	39421806.97	0.0090	0.0046
Mercury	103221-05-19 10:33 G	39421894.80	39421894.94	39421895.11	0.0090	0.0057
Mercury	103221-08-15 14:23 G	39421982.99	39421983.10	39421983.25	0.0090	0.0068
Mercury	103221-11-11 18:28 G	39422071.18	39422071.27	39422071.37	0.0090	0.0078
Mercury	103222-02-07 22:04 G	39422159.41	39422159.42	39422159.46	0.0090	0.0089
Earth	103238-10-28 01:54 G	39428265.49	39428265.58	39428265.70	0.0090	0.0081
Moon	103238-10-28 05:30 G	39428265.65	39428265.73	39428265.85	0.0090	0.0082 *
Venus	103239-05-29 06:13 G	39428478.72	39428478.76	39428478.84	0.0090	0.0086
Moon	103239-10-30 10:18 G	39428632.77	39428632.93	39428633.14	0.0090	0.0061
Earth	103239-10-30 13:25 G	39428632.89	39428633.06	39428633.26	0.0090	0.0061 *
Venus	103240-01-09 18:57 G	39428704.18	39428704.29	39428704.42	0.0090	0.0075
Venus	103240-08-22 07:25 G	39428929.68	39428929.81	39428929.98	0.0090	0.0065
Earth	103240-11-01 00:42 G	39429000.32	39429000.53	39429000.77	0.0090	0.0041
Moon	103240-11-01 03:06 G	39429000.42	39429000.63	39429000.88	0.0090	0.0043 *
Venus	103241-04-04 20:23 G	39429155.18	39429155.35	39429155.52	0.0090	0.0054
Moon	103241-11-03 11:16 G	39429367.73	39429367.97	39429368.21	0.0090	0.0020
Earth	103241-11-03 12:13 G	39429367.77	39429368.01	39429368.27	0.0090	0.0021 *
Venus	103241-11-16 08:37 G	39429380.68	39429380.86	39429381.06	0.0090	0.0044
Venus	103242-06-29 21:21 G	39429606.19	39429606.39	39429606.59	0.0090	0.0033
Moon	103242-11-05 23:16 G	39429735.21	39429735.47	39429735.74	0.0090	0.0002
Earth	103242-11-05 23:45 G	39429735.24	39429735.49	39429735.75	0.0090	0.0001 *
Venus	103243-02-10 09:35 G	39429831.70	39429831.90	39429832.12	0.0090	0.0023
Venus	103243-09-23 22:18 G	39430057.22	39430057.43	39430057.65	0.0090	0.0012
Earth	103243-11-08 11:01 G	39430102.72	39430102.96	39430103.21	0.0090	0.0020
Moon	103243-11-08 12:13 G	39430102.77	39430103.01	39430103.25	0.0090	0.0021 *
Venus	103244-05-06 11:01 G	39430282.74	39430282.96	39430283.17	0.0090	0.0002
Moon	103244-11-09 19:25 G	39430470.09	39430470.31	39430470.56	0.0090	0.0040

Earth	103244-11-09 22:33 G	39430470.21	39430470.44	39430470.67	0.0090	0.0040	*
Venus	103244-12-17 23:30 G	39430508.27	39430508.48	39430508.69	0.0090	0.0009	
Venus	103245-07-31 11:45 G	39430733.80	39430733.99	39430734.22	0.0090	0.0021	
Earth	103245-11-12 09:06 G	39430837.72	39430837.88	39430838.10	0.0090	0.0061	
Moon	103245-11-12 12:42 G	39430837.86	39430838.03	39430838.23	0.0090	0.0061	*
Venus	103246-03-14 00:28 G	39430959.33	39430959.52	39430959.73	0.0090	0.0031	
Venus	103246-10-25 12:57 G	39431184.86	39431185.04	39431185.24	0.0090	0.0042	
Moon	103246-11-14 17:45 G	39431205.13	39431205.24	39431205.36	0.0090	0.0079	
Earth	103246-11-14 20:37 G	39431205.28	39431205.36	39431205.50	0.0090	0.0081	*
Venus	103247-06-08 01:25 G	39431410.40	39431410.56	39431410.75	0.0090	0.0052	
Venus	103248-01-19 13:54 G	39431635.94	39431636.08	39431636.25	0.0090	0.0063	
Venus	103248-09-01 02:37 G	39431861.50	39431861.61	39431861.75	0.0090	0.0073	
Venus	103249-04-14 15:35 G	39432087.07	39432087.15	39432087.23	0.0090	0.0083	
Mars	103277-04-08 09:06 G	39442307.59	39442307.88	39442308.19	0.0089	0.0009	
Mars	103279-03-03 09:06 G	39443001.85	39443001.88	39443001.97	0.0089	0.0087	
Mercury	103298-10-23 17:59 G	39450176.22	39450176.25	39450176.30	0.0088	0.0084	
Mercury	103299-01-19 19:11 G	39450264.25	39450264.30	39450264.37	0.0088	0.0077	
Mercury	103299-04-17 20:37 G	39450352.29	39450352.36	39450352.44	0.0088	0.0070	
Mercury	103299-07-14 21:49 G	39450440.33	39450440.41	39450440.51	0.0088	0.0063	
Mercury	103299-10-10 23:16 G	39450528.37	39450528.47	39450528.57	0.0088	0.0056	
Mercury	103300-01-07 00:13 G	39450616.42	39450616.51	39450616.63	0.0088	0.0050	
Mercury	103300-04-05 01:40 G	39450704.46	39450704.57	39450704.69	0.0088	0.0043	
Mercury	103300-07-02 02:52 G	39450792.51	39450792.62	39450792.75	0.0088	0.0036	
Mercury	103300-09-28 04:18 G	39450880.56	39450880.68	39450880.81	0.0088	0.0029	
Mercury	103300-12-25 05:30 G	39450968.61	39450968.73	39450968.86	0.0088	0.0022	
Mercury	103301-03-23 06:42 G	39451056.66	39451056.78	39451056.92	0.0088	0.0016	
Mercury	103301-06-19 08:09 G	39451144.71	39451144.84	39451144.97	0.0088	0.0009	
Mercury	103301-09-15 09:21 G	39451232.76	39451232.89	39451233.02	0.0088	0.0002	
Mercury	103301-12-12 10:33 G	39451320.81	39451320.94	39451321.07	0.0088	0.0005	
Mercury	103302-03-10 11:45 G	39451408.86	39451408.99	39451409.13	0.0088	0.0012	

Mercury	103302-06-06 12:57 G	39451496.92	39451497.04	39451497.18	0.0088	0.0019
Mercury	103302-09-02 14:09 G	39451584.97	39451585.09	39451585.22	0.0088	0.0026
Mercury	103302-11-29 15:35 G	39451673.03	39451673.15	39451673.27	0.0088	0.0032
Mercury	103303-02-25 16:47 G	39451761.08	39451761.20	39451761.32	0.0088	0.0039
Mercury	103303-05-24 17:59 G	39451849.14	39451849.25	39451849.37	0.0088	0.0046
Mercury	103303-08-20 18:57 G	39451937.20	39451937.29	39451937.41	0.0088	0.0053
Mercury	103303-11-16 20:23 G	39452025.26	39452025.35	39452025.45	0.0088	0.0059
Mercury	103304-02-12 21:35 G	39452113.32	39452113.40	39452113.49	0.0088	0.0066
Mercury	103304-05-10 22:47 G	39452201.39	39452201.45	39452201.53	0.0088	0.0073
Mercury	103304-08-06 23:59 G	39452289.46	39452289.50	39452289.56	0.0088	0.0080
Mercury	103304-11-03 01:25 G	39452377.54	39452377.56	39452377.58	0.0088	0.0086
Earth	103321-04-28 01:54 G	39458397.49	39458397.58	39458397.72	0.0088	0.0079
Moon	103321-04-28 06:13 G	39458397.65	39458397.76	39458397.87	0.0088	0.0079 *
Venus	103322-02-25 08:23 G	39458700.79	39458700.85	39458700.94	0.0088	0.0082
Moon	103322-04-30 10:47 G	39458764.77	39458764.95	39458765.15	0.0088	0.0059
Earth	103322-04-30 14:09 G	39458764.91	39458765.09	39458765.30	0.0088	0.0059 *
Venus	103322-10-08 21:49 G	39458926.30	39458926.41	39458926.56	0.0088	0.0072
Earth	103323-05-03 02:09 G	39459132.37	39459132.59	39459132.84	0.0088	0.0040
Moon	103323-05-03 05:01 G	39459132.49	39459132.71	39459132.97	0.0088	0.0040 *
Venus	103323-05-22 11:01 G	39459151.83	39459151.96	39459152.15	0.0088	0.0062
Venus	103324-01-03 00:57 G	39459377.37	39459377.54	39459377.73	0.0088	0.0051
Moon	103324-05-04 12:42 G	39459499.80	39459500.03	39459500.29	0.0088	0.0020
Earth	103324-05-04 14:23 G	39459499.85	39459500.10	39459500.36	0.0088	0.0020 *
Venus	103324-08-15 14:23 G	39459602.92	39459603.10	39459603.32	0.0088	0.0041
Venus	103325-03-29 04:18 G	39459828.47	39459828.68	39459828.89	0.0088	0.0030
Earth	103325-05-07 02:23 G	39459867.34	39459867.60	39459867.86	0.0088	0.0001
Moon	103325-05-07 03:06 G	39459867.36	39459867.63	39459867.90	0.0088	0.0001 *
Venus	103325-11-09 17:45 G	39460054.03	39460054.24	39460054.46	0.0088	0.0020
Earth	103326-05-09 14:23 G	39460234.85	39460235.10	39460235.36	0.0088	0.0019
Moon	103326-05-09 14:52 G	39460234.89	39460235.12	39460235.38	0.0088	0.0020 *

Venus	103326-06-23 07:11 G	39460279.58	39460279.80	39460280.03	0.0088	0.0010
Venus	103327-02-03 20:52 G	39460505.15	39460505.37	39460505.60	0.0088	0.0002
Moon	103327-05-11 23:30 G	39460602.26	39460602.48	39460602.74	0.0088	0.0038
Earth	103327-05-12 02:09 G	39460602.37	39460602.59	39460602.84	0.0088	0.0039 *
Venus	103327-09-17 10:18 G	39460730.71	39460730.93	39460731.16	0.0088	0.0012
Venus	103328-04-29 23:45 G	39460956.28	39460956.49	39460956.71	0.0088	0.0022
Earth	103328-05-13 14:09 G	39460969.91	39460970.09	39460970.30	0.0088	0.0058
Moon	103328-05-13 16:33 G	39460970.03	39460970.19	39460970.41	0.0088	0.0059 *
Venus	103328-12-11 13:11 G	39461181.85	39461182.05	39461182.27	0.0088	0.0032
Moon	103329-05-15 22:47 G	39461337.33	39461337.45	39461337.57	0.0088	0.0077
Earth	103329-05-16 01:54 G	39461337.49	39461337.58	39461337.73	0.0088	0.0078 *
Venus	103329-07-25 02:23 G	39461407.42	39461407.60	39461407.81	0.0088	0.0043
Venus	103330-03-07 16:04 G	39461633.01	39461633.17	39461633.36	0.0088	0.0053
Venus	103330-10-19 05:45 G	39461858.59	39461858.74	39461858.90	0.0088	0.0063
Venus	103331-06-01 18:42 G	39462084.18	39462084.28	39462084.43	0.0088	0.0074
Venus	103332-01-13 08:23 G	39462309.80	39462309.85	39462309.93	0.0088	0.0084
Mars	103361-02-01 12:28 G	39472921.70	39472922.02	39472922.34	0.0089	0.0018
Mercury	103382-09-29 04:18 G	39480831.66	39480831.68	39480831.70	0.0090	0.0089
Mercury	103382-12-26 07:40 G	39480919.75	39480919.82	39480919.93	0.0090	0.0079
Mercury	103383-03-24 11:45 G	39481007.87	39481007.99	39481008.13	0.0090	0.0068
Mercury	103383-06-20 15:35 G	39481096.00	39481096.15	39481096.31	0.0090	0.0057
Mercury	103383-09-16 19:11 G	39481184.15	39481184.30	39481184.48	0.0090	0.0047
Mercury	103383-12-13 23:01 G	39481272.29	39481272.46	39481272.65	0.0090	0.0036
Mercury	103384-03-11 03:06 G	39481360.44	39481360.63	39481360.82	0.0090	0.0025
Mercury	103384-06-07 06:42 G	39481448.59	39481448.78	39481448.98	0.0090	0.0014
Mercury	103384-09-03 10:47 G	39481536.75	39481536.95	39481537.14	0.0090	0.0004
Mercury	103384-11-30 14:23 G	39481624.91	39481625.10	39481625.30	0.0090	0.0008
Mercury	103385-02-26 18:13 G	39481713.07	39481713.26	39481713.46	0.0090	0.0018
Mercury	103385-05-25 21:49 G	39481801.24	39481801.41	39481801.61	0.0090	0.0030
Mercury	103385-08-22 01:54 G	39481889.41	39481889.58	39481889.76	0.0090	0.0040



Mercury	103385-11-18 05:30 G	39481977.58	39481977.73	39481977.90	0.0090	0.0051
Mercury	103386-02-14 09:21 G	39482065.76	39482065.89	39482066.04	0.0090	0.0062
Mercury	103386-05-13 12:57 G	39482153.95	39482154.04	39482154.18	0.0090	0.0073
Mercury	103386-08-09 17:16 G	39482242.15	39482242.22	39482242.29	0.0090	0.0083
Moon	103402-10-29 12:13 G	39488165.94	39488166.01	39488166.10	0.0090	0.0085
Earth	103402-10-29 12:13 G	39488165.99	39488166.01	39488166.10	0.0090	0.0088 *
Venus	103403-09-01 18:28 G	39488473.25	39488473.27	39488473.34	0.0090	0.0088
Earth	103403-11-01 00:13 G	39488533.35	39488533.51	39488533.69	0.0090	0.0067
Moon	103403-11-01 01:25 G	39488533.43	39488533.56	39488533.73	0.0090	0.0070 *
Venus	103404-04-14 07:25 G	39488698.71	39488698.81	39488698.92	0.0090	0.0077
Moon	103404-11-02 09:06 G	39488900.66	39488900.88	39488901.11	0.0090	0.0044
Earth	103404-11-02 11:45 G	39488900.78	39488900.99	39488901.22	0.0090	0.0047 *
Venus	103404-11-25 19:40 G	39488924.19	39488924.32	39488924.48	0.0090	0.0067
Venus	103405-07-09 08:23 G	39489149.69	39489149.85	39489150.02	0.0090	0.0056
Earth	103405-11-04 23:01 G	39489268.23	39489268.46	39489268.72	0.0090	0.0027
Moon	103405-11-05 02:37 G	39489268.38	39489268.61	39489268.86	0.0090	0.0029 *
Venus	103406-02-19 20:52 G	39489375.19	39489375.37	39489375.56	0.0090	0.0046
Venus	103406-10-03 09:35 G	39489600.70	39489600.90	39489601.10	0.0090	0.0035
Moon	103406-11-07 07:25 G	39489635.55	39489635.81	39489636.06	0.0090	0.0004
Earth	103406-11-07 10:33 G	39489635.70	39489635.94	39489636.20	0.0090	0.0007 *
Venus	103407-05-16 21:49 G	39489826.21	39489826.41	39489826.63	0.0090	0.0025
Earth	103407-11-09 22:04 G	39490003.17	39490003.42	39490003.67	0.0090	0.0014
Moon	103407-11-10 01:25 G	39490003.31	39490003.56	39490003.82	0.0090	0.0011 *
Venus	103407-12-28 10:33 G	39490051.73	39490051.94	39490052.15	0.0090	0.0014
Venus	103408-08-09 23:16 G	39490277.25	39490277.47	39490277.68	0.0090	0.0004
Moon	103408-11-11 06:42 G	39490370.57	39490370.78	39490371.02	0.0090	0.0037
Earth	103408-11-11 09:21 G	39490370.65	39490370.89	39490371.12	0.0090	0.0034 *
Venus	103409-03-23 11:30 G	39490502.77	39490502.98	39490503.20	0.0090	0.0008
Venus	103409-11-03 23:59 G	39490728.30	39490728.50	39490728.72	0.0090	0.0018
Earth	103409-11-13 20:09 G	39490738.16	39490738.34	39490738.56	0.0090	0.0055

Moon	103409-11-13 21:49 G	39490738.21	39490738.41	39490738.64	0.0090	0.0052 *
Venus	103410-06-17 12:28 G	39490953.82	39490954.02	39490954.23	0.0090	0.0029
Earth	103410-11-16 07:25 G	39491105.69	39491105.81	39491105.97	0.0090	0.0075
Moon	103410-11-16 07:11 G	39491105.70	39491105.80	39491105.95	0.0090	0.0078 *
Venus	103411-01-29 00:57 G	39491179.36	39491179.54	39491179.74	0.0090	0.0039
Venus	103411-09-11 13:25 G	39491404.90	39491405.06	39491405.26	0.0090	0.0050
Venus	103412-04-24 02:09 G	39491630.44	39491630.59	39491630.76	0.0090	0.0060
Venus	103412-12-05 14:23 G	39491855.99	39491856.10	39491856.25	0.0090	0.0071
Venus	103413-07-19 03:06 G	39492081.55	39492081.63	39492081.73	0.0090	0.0081
Mars	103440-11-23 18:42 G	39502071.04	39502071.28	39502071.57	0.0089	0.0040
Mars	103442-10-18 17:01 G	39502764.99	39502765.21	39502765.45	0.0089	0.0056
Mercury	103463-04-25 16:47 G	39510259.19	39510259.20	39510259.21	0.0088	0.0087
Mercury	103463-07-22 17:59 G	39510347.20	39510347.25	39510347.30	0.0088	0.0080
Mercury	103463-10-18 18:57 G	39510435.24	39510435.29	39510435.38	0.0088	0.0074
Mercury	103464-01-14 20:23 G	39510523.28	39510523.35	39510523.45	0.0088	0.0067
Mercury	103464-04-11 21:49 G	39510611.32	39510611.41	39510611.51	0.0088	0.0060
Mercury	103464-07-08 23:01 G	39510699.36	39510699.46	39510699.57	0.0088	0.0053
Mercury	103464-10-05 00:28 G	39510787.41	39510787.52	39510787.63	0.0088	0.0046
Mercury	103465-01-01 01:40 G	39510875.45	39510875.57	39510875.69	0.0088	0.0039
Mercury	103465-03-30 02:52 G	39510963.50	39510963.62	39510963.75	0.0088	0.0033
Mercury	103465-06-26 04:04 G	39511051.55	39511051.67	39511051.80	0.0088	0.0026
Mercury	103465-09-22 05:30 G	39511139.60	39511139.73	39511139.86	0.0088	0.0019
Mercury	103465-12-19 06:42 G	39511227.65	39511227.78	39511227.91	0.0088	0.0012
Mercury	103466-03-17 07:54 G	39511315.70	39511315.83	39511315.97	0.0088	0.0006
Mercury	103466-06-13 09:21 G	39511403.76	39511403.89	39511404.02	0.0088	0.0002
Mercury	103466-09-09 10:33 G	39511491.81	39511491.94	39511492.07	0.0088	0.0008
Mercury	103466-12-06 11:45 G	39511579.86	39511579.99	39511580.12	0.0088	0.0015
Mercury	103467-03-04 12:57 G	39511667.92	39511668.04	39511668.17	0.0088	0.0022
Mercury	103467-05-31 14:09 G	39511755.97	39511756.09	39511756.22	0.0088	0.0029
Mercury	103467-08-27 15:21 G	39511844.03	39511844.14	39511844.27	0.0088	0.0036

Mercury	103467-11-23 16:33 G	39511932.08	39511932.19	39511932.31	0.0088	0.0043
Mercury	103468-02-19 17:59 G	39512020.14	39512020.25	39512020.36	0.0088	0.0049
Mercury	103468-05-17 19:11 G	39512108.20	39512108.30	39512108.40	0.0088	0.0056
Mercury	103468-08-13 20:09 G	39512196.26	39512196.34	39512196.44	0.0088	0.0063
Mercury	103468-11-09 21:21 G	39512284.33	39512284.39	39512284.48	0.0088	0.0070
Mercury	103469-02-05 22:47 G	39512372.39	39512372.45	39512372.52	0.0088	0.0076
Mercury	103469-05-04 23:59 G	39512460.47	39512460.50	39512460.55	0.0088	0.0083
Earth	103485-04-28 12:13 G	39518297.95	39518298.01	39518298.10	0.0088	0.0084
Moon	103485-04-28 12:42 G	39518297.98	39518298.03	39518298.10	0.0088	0.0085 *
Earth	103486-04-30 23:59 G	39518665.34	39518665.50	39518665.69	0.0088	0.0065
Moon	103486-05-01 00:57 G	39518665.37	39518665.54	39518665.72	0.0088	0.0063 *
Venus	103486-05-30 18:42 G	39518695.24	39518695.28	39518695.36	0.0088	0.0084
Venus	103487-01-11 08:09 G	39518920.74	39518920.84	39518920.98	0.0088	0.0074
Moon	103487-05-03 09:49 G	39519032.68	39519032.91	39519033.13	0.0088	0.0046
Earth	103487-05-03 11:45 G	39519032.79	39519032.99	39519033.24	0.0088	0.0046 *
Venus	103487-08-24 21:35 G	39519146.27	39519146.40	39519146.58	0.0088	0.0064
Venus	103488-04-06 11:30 G	39519371.81	39519371.98	39519372.17	0.0088	0.0053
Earth	103488-05-04 23:59 G	39519400.26	39519400.50	39519400.76	0.0088	0.0026
Moon	103488-05-05 02:52 G	39519400.38	39519400.62	39519400.88	0.0088	0.0025 *
Venus	103488-11-18 00:57 G	39519597.36	39519597.54	39519597.75	0.0088	0.0043
Moon	103489-05-07 08:37 G	39519767.60	39519767.86	39519768.12	0.0088	0.0008
Earth	103489-05-07 12:13 G	39519767.75	39519768.01	39519768.27	0.0088	0.0006 *
Venus	103489-07-01 14:23 G	39519822.91	39519823.10	39519823.32	0.0088	0.0033
Venus	103490-02-12 04:18 G	39520048.46	39520048.68	39520048.90	0.0088	0.0022
Earth	103490-05-09 23:45 G	39520135.24	39520135.49	39520135.76	0.0088	0.0014
Moon	103490-05-10 03:35 G	39520135.39	39520135.65	39520135.91	0.0088	0.0015 *
Venus	103490-09-25 17:45 G	39520274.02	39520274.24	39520274.47	0.0088	0.0012
Venus	103491-05-09 07:25 G	39520499.58	39520499.81	39520500.03	0.0088	0.0001
Moon	103491-05-12 08:52 G	39520502.65	39520502.87	39520503.13	0.0088	0.0032
Earth	103491-05-12 11:59 G	39520502.77	39520503.00	39520503.25	0.0088	0.0033 *

Venus	103491-12-20 20:37 G	39520725.14	39520725.36	39520725.59	0.0088	0.0010
Earth	103492-05-13 23:45 G	39520870.30	39520870.49	39520870.72	0.0088	0.0053
Moon	103492-05-14 02:23 G	39520870.40	39520870.60	39520870.82	0.0088	0.0055 *
Venus	103492-08-02 10:04 G	39520950.71	39520950.92	39520951.15	0.0088	0.0020
Venus	103493-03-15 23:59 G	39521176.29	39521176.50	39521176.71	0.0088	0.0030
Moon	103493-05-16 11:01 G	39521237.83	39521237.96	39521238.12	0.0088	0.0071
Earth	103493-05-16 11:45 G	39521237.86	39521237.99	39521238.15	0.0088	0.0072 *
Venus	103493-10-27 12:57 G	39521401.86	39521402.04	39521402.26	0.0088	0.0041
Venus	103494-06-10 02:37 G	39521627.44	39521627.61	39521627.81	0.0088	0.0051
Venus	103495-01-21 16:04 G	39521853.02	39521853.17	39521853.34	0.0088	0.0061
Venus	103495-09-04 05:45 G	39522078.62	39522078.74	39522078.88	0.0088	0.0071
Venus	103496-04-16 18:57 G	39522304.23	39522304.29	39522304.39	0.0088	0.0082
Jupiter	103514-12-22 20:23 G	39529126.88	39529127.35	39529127.86	0.0088	0.0044
Mars	103524-09-17 12:42 G	39532683.71	39532684.03	39532684.37	0.0089	0.0018
Mercury	103547-06-28 02:37 G	39541002.57	39541002.61	39541002.71	0.0090	0.0084
Mercury	103547-09-24 06:42 G	39541090.68	39541090.78	39541090.91	0.0090	0.0073
Mercury	103547-12-21 10:47 G	39541178.81	39541178.95	39541179.09	0.0090	0.0062
Mercury	103548-03-18 14:09 G	39541266.95	39541267.09	39541267.27	0.0090	0.0052
Mercury	103548-06-14 18:13 G	39541355.09	39541355.26	39541355.44	0.0090	0.0041
Mercury	103548-09-10 22:04 G	39541443.24	39541443.42	39541443.61	0.0090	0.0030
Mercury	103548-12-08 01:40 G	39541531.39	39541531.57	39541531.78	0.0090	0.0020
Mercury	103549-03-06 05:45 G	39541619.55	39541619.74	39541619.94	0.0090	0.0008
Mercury	103549-06-02 09:35 G	39541707.70	39541707.90	39541708.10	0.0090	0.0002
Mercury	103549-08-29 13:11 G	39541795.86	39541796.05	39541796.25	0.0090	0.0014
Mercury	103549-11-25 17:16 G	39541884.03	39541884.22	39541884.41	0.0090	0.0024
Mercury	103550-02-21 20:52 G	39541972.19	39541972.37	39541972.56	0.0090	0.0035
Mercury	103550-05-21 00:28 G	39542060.37	39542060.52	39542060.70	0.0090	0.0046
Mercury	103550-08-17 04:18 G	39542148.54	39542148.68	39542148.85	0.0090	0.0057
Mercury	103550-11-13 08:23 G	39542236.72	39542236.85	39542236.98	0.0090	0.0067
Mercury	103551-02-09 11:59 G	39542324.92	39542325.00	39542325.11	0.0090	0.0078

Mercury	103551-05-08 15:35 G	39542413.15	39542413.15	39542413.20	0.0090	0.0089
Earth	103567-11-01 10:04 G	39548433.81	39548433.92	39548434.09	0.0090	0.0074
Moon	103567-11-01 13:54 G	39548433.93	39548434.08	39548434.26	0.0090	0.0069 *
Venus	103567-12-05 06:42 G	39548467.78	39548467.78	39548467.79	0.0090	0.0090
Venus	103568-07-17 19:25 G	39548693.21	39548693.31	39548693.41	0.0090	0.0079
Moon	103568-11-02 19:25 G	39548801.14	39548801.31	39548801.52	0.0090	0.0058
Earth	103568-11-02 22:18 G	39548801.23	39548801.43	39548801.64	0.0090	0.0053 *
Venus	103569-02-28 07:40 G	39548918.70	39548918.82	39548918.97	0.0090	0.0069
Venus	103569-10-11 19:54 G	39549144.19	39549144.33	39549144.52	0.0090	0.0059
Earth	103569-11-05 09:35 G	39549168.68	39549168.90	39549169.15	0.0090	0.0033
Moon	103569-11-05 11:16 G	39549168.73	39549168.97	39549169.23	0.0090	0.0029 *
Venus	103570-05-25 08:52 G	39549369.70	39549369.87	39549370.06	0.0090	0.0048
Moon	103570-11-07 20:37 G	39549536.13	39549536.36	39549536.61	0.0090	0.0017
Earth	103570-11-07 21:06 G	39549536.14	39549536.38	39549536.64	0.0090	0.0013 *
Venus	103571-01-05 21:06 G	39549595.20	39549595.38	39549595.59	0.0090	0.0038
Venus	103571-08-19 10:04 G	39549820.72	39549820.92	39549821.13	0.0090	0.0027
Moon	103571-11-10 07:11 G	39549903.54	39549903.80	39549904.06	0.0090	0.0012
Earth	103571-11-10 08:37 G	39549903.61	39549903.86	39549904.11	0.0090	0.0008 *
Venus	103572-03-31 22:33 G	39550046.24	39550046.44	39550046.66	0.0090	0.0016
Earth	103572-11-11 19:40 G	39550271.09	39550271.32	39550271.57	0.0090	0.0029
Moon	103572-11-11 21:49 G	39550271.18	39550271.41	39550271.66	0.0090	0.0025 *
Venus	103572-11-12 11:01 G	39550271.75	39550271.96	39550272.18	0.0090	0.0006
Venus	103573-06-25 23:30 G	39550497.27	39550497.48	39550497.70	0.0090	0.0005
Moon	103573-11-14 04:04 G	39550638.47	39550638.67	39550638.89	0.0090	0.0053
Earth	103573-11-14 06:57 G	39550638.60	39550638.79	39550639.02	0.0090	0.0049 *
Venus	103574-02-06 11:59 G	39550722.79	39550723.00	39550723.22	0.0090	0.0016
Venus	103574-09-20 00:42 G	39550948.33	39550948.53	39550948.74	0.0090	0.0026
Earth	103574-11-16 17:59 G	39551006.11	39551006.25	39551006.44	0.0090	0.0069
Moon	103574-11-16 21:35 G	39551006.25	39551006.40	39551006.60	0.0090	0.0065 *
Venus	103575-05-03 12:57 G	39551173.86	39551174.04	39551174.25	0.0090	0.0037

Earth	103575-11-19 05:16 G	39551373.71	39551373.72	39551373.78	0.0090	0.0089
Venus	103575-12-15 01:11 G	39551399.39	39551399.55	39551399.76	0.0090	0.0048
Venus	103576-07-27 13:54 G	39551624.93	39551625.08	39551625.26	0.0090	0.0058
Venus	103577-03-10 02:23 G	39551850.48	39551850.60	39551850.76	0.0090	0.0069
Venus	103577-10-21 15:06 G	39552076.04	39552076.13	39552076.24	0.0090	0.0079
Venus	103578-06-04 03:49 G	39552301.64	39552301.66	39552301.69	0.0090	0.0089
Mars	103604-07-10 05:01 G	39561834.56	39561834.71	39561834.92	0.0089	0.0071
Mars	103606-06-04 02:23 G	39562528.31	39562528.60	39562528.88	0.0089	0.0024
Mercury	103628-01-21 16:18 G	39570430.16	39570430.18	39570430.24	0.0088	0.0084
Mercury	103628-04-18 17:45 G	39570518.19	39570518.24	39570518.31	0.0088	0.0077
Mercury	103628-07-15 19:11 G	39570606.23	39570606.30	39570606.38	0.0088	0.0070
Mercury	103628-10-11 20:23 G	39570694.27	39570694.35	39570694.45	0.0088	0.0063
Mercury	103629-01-07 21:49 G	39570782.31	39570782.41	39570782.51	0.0088	0.0056
Mercury	103629-04-05 22:47 G	39570870.35	39570870.45	39570870.57	0.0088	0.0050
Mercury	103629-07-03 00:13 G	39570958.40	39570958.51	39570958.63	0.0088	0.0043
Mercury	103629-09-29 01:25 G	39571046.45	39571046.56	39571046.69	0.0088	0.0036
Mercury	103629-12-26 02:52 G	39571134.50	39571134.62	39571134.75	0.0088	0.0029
Mercury	103630-03-24 04:04 G	39571222.55	39571222.67	39571222.80	0.0088	0.0022
Mercury	103630-06-20 05:16 G	39571310.60	39571310.72	39571310.86	0.0088	0.0016
Mercury	103630-09-16 06:42 G	39571398.65	39571398.78	39571398.91	0.0088	0.0009
Mercury	103630-12-13 07:54 G	39571486.70	39571486.83	39571486.96	0.0088	0.0002
Mercury	103631-03-11 09:06 G	39571574.75	39571574.88	39571575.02	0.0088	0.0006
Mercury	103631-06-07 10:33 G	39571662.80	39571662.94	39571663.07	0.0088	0.0012
Mercury	103631-09-03 11:30 G	39571750.86	39571750.98	39571751.12	0.0088	0.0019
Mercury	103631-11-30 12:42 G	39571838.91	39571839.03	39571839.17	0.0088	0.0026
Mercury	103632-02-26 14:09 G	39571926.97	39571927.09	39571927.21	0.0088	0.0032
Mercury	103632-05-24 15:21 G	39572015.03	39572015.14	39572015.26	0.0088	0.0039
Mercury	103632-08-20 16:33 G	39572103.08	39572103.19	39572103.31	0.0088	0.0046
Mercury	103632-11-16 17:45 G	39572191.14	39572191.24	39572191.35	0.0088	0.0053
Mercury	103633-02-12 19:11 G	39572279.20	39572279.30	39572279.39	0.0088	0.0059

Mercury	103633-05-11 20:23 G	39572367.27	39572367.35	39572367.44	0.0088	0.0066
Mercury	103633-08-07 21:21 G	39572455.33	39572455.39	39572455.47	0.0088	0.0073
Mercury	103633-11-03 22:33 G	39572543.40	39572543.44	39572543.51	0.0088	0.0080
Mercury	103634-01-31 00:13 G	39572631.49	39572631.51	39572631.53	0.0088	0.0086
Moon	103649-04-28 18:57 G	39578198.26	39578198.29	39578198.36	0.0088	0.0086
Earth	103650-05-01 09:49 G	39578565.78	39578565.91	39578566.09	0.0088	0.0071
Moon	103650-05-01 14:09 G	39578565.96	39578566.09	39578566.23	0.0088	0.0074 *
Venus	103650-09-02 05:16 G	39578689.70	39578689.72	39578689.79	0.0088	0.0086
Venus	103651-04-15 18:42 G	39578915.20	39578915.28	39578915.42	0.0088	0.0076
Moon	103651-05-03 18:57 G	39578933.09	39578933.29	39578933.52	0.0088	0.0048
Earth	103651-05-03 22:04 G	39578933.22	39578933.42	39578933.64	0.0088	0.0051 *
Venus	103651-11-27 08:37 G	39579140.72	39579140.86	39579141.02	0.0088	0.0065
Earth	103652-05-05 09:49 G	39579300.68	39579300.91	39579301.17	0.0088	0.0032
Moon	103652-05-05 12:28 G	39579300.79	39579301.02	39579301.28	0.0088	0.0036 *
Venus	103652-07-09 22:04 G	39579366.25	39579366.42	39579366.60	0.0088	0.0055
Venus	103653-02-20 11:30 G	39579591.80	39579591.98	39579592.19	0.0088	0.0045
Moon	103653-05-07 20:52 G	39579668.12	39579668.37	39579668.62	0.0088	0.0008
Earth	103653-05-07 21:49 G	39579668.16	39579668.41	39579668.68	0.0088	0.0012 *
Venus	103653-10-04 01:25 G	39579817.35	39579817.56	39579817.77	0.0088	0.0034
Moon	103654-05-10 09:35 G	39580035.63	39580035.90	39580036.18	0.0088	0.0005
Earth	103654-05-10 10:04 G	39580035.66	39580035.92	39580036.18	0.0088	0.0008 *
Venus	103654-05-17 14:52 G	39580042.90	39580043.12	39580043.34	0.0088	0.0024
Venus	103654-12-29 04:18 G	39580268.46	39580268.68	39580268.91	0.0088	0.0014
Earth	103655-05-12 21:35 G	39580403.17	39580403.40	39580403.67	0.0088	0.0028
Moon	103655-05-12 23:16 G	39580403.23	39580403.47	39580403.70	0.0088	0.0031 *
Venus	103655-08-11 17:59 G	39580494.02	39580494.25	39580494.47	0.0088	0.0003
Venus	103656-03-24 07:25 G	39580719.59	39580719.81	39580720.04	0.0088	0.0008
Moon	103656-05-14 06:42 G	39580770.57	39580770.78	39580771.04	0.0088	0.0044
Earth	103656-05-14 09:49 G	39580770.70	39580770.91	39580771.14	0.0088	0.0047 *
Venus	103656-11-04 21:06 G	39580945.16	39580945.38	39580945.60	0.0088	0.0018

Earth	103657-05-16 21:35 G	39581138.25	39581138.40	39581138.59	0.0088	0.0067
Moon	103657-05-17 01:11 G	39581138.41	39581138.55	39581138.71	0.0088	0.0070 *
Venus	103657-06-18 10:33 G	39581170.73	39581170.94	39581171.16	0.0088	0.0028
Venus	103658-01-29 23:45 G	39581396.31	39581396.49	39581396.71	0.0088	0.0039
Moon	103658-05-19 06:13 G	39581505.69	39581505.76	39581505.87	0.0088	0.0082
Earth	103658-05-19 10:04 G	39581505.88	39581505.92	39581505.98	0.0088	0.0086
Venus	103658-09-12 13:25 G	39581621.89	39581622.06	39581622.26	0.0088	0.0049
Venus	103659-04-26 03:06 G	39581847.47	39581847.63	39581847.80	0.0088	0.0059
Venus	103659-12-07 16:04 G	39582073.06	39582073.17	39582073.33	0.0088	0.0070
Venus	103660-07-20 05:45 G	39582298.67	39582298.74	39582298.85	0.0088	0.0080
Jupiter	103681-02-25 11:01 G	39589823.64	39589823.96	39589824.37	0.0088	0.0068
Mars	103688-05-01 10:33 G	39592445.70	39592445.94	39592446.24	0.0089	0.0054
Mars	103690-03-28 07:25 G	39593141.57	39593141.81	39593142.09	0.0089	0.0055
Mercury	103711-12-27 21:49 G	39601085.40	39601085.41	39601085.46	0.0090	0.0089
Mercury	103712-03-25 01:40 G	39601173.49	39601173.57	39601173.68	0.0090	0.0078
Mercury	103712-06-21 05:16 G	39601261.62	39601261.72	39601261.87	0.0090	0.0068
Mercury	103712-09-17 09:21 G	39601349.75	39601349.89	39601350.05	0.0090	0.0057
Mercury	103712-12-14 13:11 G	39601437.89	39601438.05	39601438.23	0.0090	0.0046
Mercury	103713-03-12 16:47 G	39601526.04	39601526.20	39601526.40	0.0090	0.0036
Mercury	103713-06-08 20:52 G	39601614.18	39601614.37	39601614.56	0.0090	0.0024
Mercury	103713-09-05 00:42 G	39601702.34	39601702.53	39601702.73	0.0090	0.0014
Mercury	103713-12-02 04:33 G	39601790.49	39601790.69	39601790.89	0.0090	0.0003
Mercury	103714-02-28 08:23 G	39601878.65	39601878.85	39601879.04	0.0090	0.0008
Mercury	103714-05-27 11:59 G	39601966.81	39601967.00	39601967.20	0.0090	0.0019
Mercury	103714-08-23 15:35 G	39602054.98	39602055.15	39602055.35	0.0090	0.0030
Mercury	103714-11-19 19:40 G	39602143.15	39602143.32	39602143.50	0.0090	0.0040
Mercury	103715-02-15 23:16 G	39602231.32	39602231.47	39602231.64	0.0090	0.0051
Mercury	103715-05-15 03:06 G	39602319.50	39602319.63	39602319.78	0.0090	0.0062
Mercury	103715-08-11 06:42 G	39602407.69	39602407.78	39602407.92	0.0090	0.0073
Mercury	103715-11-07 10:47 G	39602495.89	39602495.95	39602496.03	0.0090	0.0083



Moon	103731-11-01 19:25 G	39608334.26	39608334.31	39608334.43	0.0090	0.0085
Earth	103731-11-01 20:52 G	39608334.27	39608334.37	39608334.50	0.0090	0.0080 *
Venus	103732-10-20 07:25 G	39608687.72	39608687.81	39608687.90	0.0090	0.0081
Earth	103732-11-03 08:23 G	39608701.68	39608701.85	39608702.06	0.0090	0.0060
Moon	103732-11-03 11:01 G	39608701.77	39608701.96	39608702.15	0.0090	0.0055 *
Venus	103733-06-02 19:40 G	39608913.20	39608913.32	39608913.46	0.0090	0.0071
Moon	103733-11-05 17:30 G	39609069.02	39609069.23	39609069.47	0.0090	0.0044
Earth	103733-11-05 20:37 G	39609069.13	39609069.36	39609069.59	0.0090	0.0039 *
Venus	103734-01-14 08:09 G	39609138.70	39609138.84	39609139.01	0.0090	0.0061
Venus	103734-08-27 21:06 G	39609364.21	39609364.38	39609364.56	0.0090	0.0050
Earth	103734-11-08 07:54 G	39609436.58	39609436.83	39609437.08	0.0090	0.0019
Moon	103734-11-08 11:30 G	39609436.73	39609436.98	39609437.23	0.0090	0.0014 *
Venus	103735-04-10 09:21 G	39609589.72	39609589.89	39609590.10	0.0090	0.0040
Moon	103735-11-10 16:04 G	39609803.92	39609804.17	39609804.43	0.0090	0.0003
Earth	103735-11-10 19:25 G	39609804.06	39609804.31	39609804.57	0.0090	0.0002 *
Venus	103735-11-21 22:04 G	39609815.23	39609815.42	39609815.63	0.0090	0.0029
Venus	103736-07-04 10:33 G	39610040.74	39610040.94	39610041.16	0.0090	0.0019
Earth	103736-11-12 06:28 G	39610171.54	39610171.77	39610172.03	0.0090	0.0023
Moon	103736-11-12 10:04 G	39610171.68	39610171.92	39610172.17	0.0090	0.0027 *
Venus	103737-02-14 23:16 G	39610266.26	39610266.47	39610266.68	0.0090	0.0008
Venus	103737-09-28 11:45 G	39610491.78	39610491.99	39610492.21	0.0090	0.0003
Moon	103737-11-14 15:49 G	39610538.95	39610539.16	39610539.40	0.0090	0.0038
Earth	103737-11-14 17:45 G	39610539.03	39610539.24	39610539.48	0.0090	0.0043 *
Venus	103738-05-12 00:13 G	39610717.30	39610717.51	39610717.73	0.0090	0.0013
Earth	103738-11-17 05:01 G	39610906.54	39610906.71	39610906.90	0.0090	0.0063
Moon	103738-11-17 05:59 G	39610906.58	39610906.75	39610906.93	0.0090	0.0067 *
Venus	103738-12-23 12:42 G	39610942.83	39610943.03	39610943.24	0.0090	0.0024
Venus	103739-08-06 00:57 G	39611168.36	39611168.54	39611168.75	0.0090	0.0035
Moon	103739-11-19 16:04 G	39611274.08	39611274.17	39611274.31	0.0090	0.0079
Earth	103739-11-19 16:18 G	39611274.10	39611274.18	39611274.28	0.0090	0.0083 *

Venus	103740-03-18 13:40 G	39611393.89	39611394.07	39611394.26	0.0090	0.0045
Venus	103740-10-30 01:54 G	39611619.43	39611619.58	39611619.76	0.0090	0.0056
Venus	103741-06-12 14:23 G	39611844.97	39611845.10	39611845.26	0.0090	0.0066
Venus	103742-01-24 02:37 G	39612070.52	39612070.61	39612070.74	0.0090	0.0077
Venus	103742-09-06 15:21 G	39612296.11	39612296.14	39612296.21	0.0090	0.0087
Mars	103770-01-18 12:42 G	39622291.74	39622292.03	39622292.33	0.0089	0.0007
Mars	103771-12-13 09:49 G	39622985.89	39622985.91	39622985.96	0.0089	0.0088
Mercury	103792-07-22 15:06 G	39630513.13	39630513.13	39630513.16	0.0088	0.0087
Mercury	103792-10-18 16:33 G	39630601.14	39630601.19	39630601.25	0.0088	0.0080
Mercury	103793-01-14 17:59 G	39630689.18	39630689.25	39630689.32	0.0088	0.0073
Mercury	103793-04-12 18:57 G	39630777.22	39630777.29	39630777.39	0.0088	0.0067
Mercury	103793-07-09 20:09 G	39630865.26	39630865.34	39630865.45	0.0088	0.0060
Mercury	103793-10-05 21:35 G	39630953.30	39630953.40	39630953.51	0.0088	0.0053
Mercury	103794-01-01 23:01 G	39631041.35	39631041.46	39631041.57	0.0088	0.0046
Mercury	103794-03-31 00:13 G	39631129.39	39631129.51	39631129.63	0.0088	0.0039
Mercury	103794-06-27 01:25 G	39631217.44	39631217.56	39631217.69	0.0088	0.0033
Mercury	103794-09-23 02:37 G	39631305.49	39631305.61	39631305.74	0.0088	0.0026
Mercury	103794-12-20 04:04 G	39631393.54	39631393.67	39631393.80	0.0088	0.0019
Mercury	103795-03-18 05:16 G	39631481.59	39631481.72	39631481.85	0.0088	0.0012
Mercury	103795-06-14 06:28 G	39631569.64	39631569.77	39631569.91	0.0088	0.0006
Mercury	103795-09-10 07:54 G	39631657.69	39631657.83	39631657.96	0.0088	0.0003
Mercury	103795-12-07 09:06 G	39631745.75	39631745.88	39631746.01	0.0088	0.0009
Mercury	103796-03-04 10:18 G	39631833.80	39631833.93	39631834.06	0.0088	0.0015
Mercury	103796-05-31 11:30 G	39631921.86	39631921.98	39631922.11	0.0088	0.0022
Mercury	103796-08-27 12:42 G	39632009.91	39632010.03	39632010.16	0.0088	0.0029
Mercury	103796-11-23 13:54 G	39632097.97	39632098.08	39632098.21	0.0088	0.0036
Mercury	103797-02-19 15:06 G	39632186.03	39632186.13	39632186.26	0.0088	0.0043
Mercury	103797-05-18 16:33 G	39632274.08	39632274.19	39632274.30	0.0088	0.0049
Mercury	103797-08-14 17:45 G	39632362.14	39632362.24	39632362.34	0.0088	0.0056
Mercury	103797-11-10 18:57 G	39632450.21	39632450.29	39632450.39	0.0088	0.0063

Mercury	103798-02-06 20:09 G	39632538.27	39632538.34	39632538.43	0.0088	0.0070
Mercury	103798-05-05 21:35 G	39632626.34	39632626.40	39632626.46	0.0088	0.0076
Mercury	103798-08-01 22:47 G	39632714.41	39632714.45	39632714.49	0.0088	0.0083
Moon	103814-05-02 19:25 G	39638466.18	39638466.31	39638466.49	0.0088	0.0072
Earth	103814-05-02 20:09 G	39638466.22	39638466.34	39638466.48	0.0088	0.0076 *
Venus	103814-12-06 16:04 G	39638684.17	39638684.17	39638684.20	0.0088	0.0088
Earth	103815-05-05 07:40 G	39638833.64	39638833.82	39638834.04	0.0088	0.0057
Moon	103815-05-05 09:21 G	39638833.71	39638833.89	39638834.07	0.0088	0.0061 *
Venus	103815-07-20 05:16 G	39638909.64	39638909.72	39638909.85	0.0088	0.0078
Venus	103816-03-01 19:11 G	39639135.16	39639135.30	39639135.45	0.0088	0.0067
Moon	103816-05-06 16:47 G	39639200.96	39639201.20	39639201.46	0.0088	0.0033
Earth	103816-05-06 19:25 G	39639201.09	39639201.31	39639201.56	0.0088	0.0038 *
Venus	103816-10-13 08:37 G	39639360.70	39639360.86	39639361.04	0.0088	0.0057
Earth	103817-05-09 07:25 G	39639568.56	39639568.81	39639569.07	0.0088	0.0018
Moon	103817-05-09 11:01 G	39639568.71	39639568.96	39639569.21	0.0088	0.0022 *
Venus	103817-05-26 21:49 G	39639586.23	39639586.41	39639586.62	0.0088	0.0047
Venus	103818-01-07 11:16 G	39639811.78	39639811.97	39639812.19	0.0088	0.0037
Moon	103818-05-11 15:49 G	39639935.91	39639936.16	39639936.43	0.0088	0.0007
Earth	103818-05-11 19:25 G	39639936.05	39639936.31	39639936.58	0.0088	0.0002 *
Venus	103818-08-21 01:11 G	39640037.33	39640037.55	39640037.76	0.0088	0.0026
Venus	103819-04-03 14:37 G	39640262.89	39640263.11	39640263.34	0.0088	0.0016
Earth	103819-05-14 07:11 G	39640303.55	39640303.80	39640304.06	0.0088	0.0022
Moon	103819-05-14 10:47 G	39640303.70	39640303.95	39640304.22	0.0088	0.0017 *
Venus	103819-11-15 04:04 G	39640488.45	39640488.67	39640488.90	0.0088	0.0006
Moon	103820-05-15 16:33 G	39640670.99	39640671.19	39640671.43	0.0088	0.0046
Earth	103820-05-15 19:25 G	39640671.08	39640671.31	39640671.54	0.0088	0.0041 *
Venus	103820-06-27 17:45 G	39640714.02	39640714.24	39640714.47	0.0088	0.0005
Venus	103821-02-08 07:11 G	39640939.59	39640939.80	39640940.03	0.0088	0.0016
Earth	103821-05-18 07:11 G	39641038.62	39641038.80	39641039.00	0.0088	0.0061
Moon	103821-05-18 08:52 G	39641038.69	39641038.87	39641039.10	0.0088	0.0057 *

Venus	103821-09-21 20:52 G	39641165.16	39641165.37	39641165.59	0.0088	0.0026
Venus	103822-05-05 10:04 G	39641390.73	39641390.92	39641391.14	0.0088	0.0037
Earth	103822-05-20 18:57 G	39641406.22	39641406.29	39641406.42	0.0088	0.0081
Moon	103822-05-20 18:28 G	39641406.24	39641406.27	39641406.35	0.0088	0.0086 *
Venus	103822-12-16 23:45 G	39641616.31	39641616.49	39641616.69	0.0088	0.0047
Venus	103823-07-30 13:11 G	39641841.89	39641842.05	39641842.24	0.0088	0.0057
Venus	103824-03-12 03:06 G	39642067.49	39642067.63	39642067.78	0.0088	0.0067
Venus	103824-10-23 16:04 G	39642293.10	39642293.17	39642293.30	0.0088	0.0078
Venus	103825-06-06 05:59 G	39642518.75	39642518.75	39642518.77	0.0088	0.0088
Mars	103853-11-11 04:47 G	39652903.39	39652903.70	39652904.04	0.0089	0.0019
Mercury	103876-09-23 20:52 G	39661256.31	39661256.37	39661256.45	0.0090	0.0083
Mercury	103876-12-21 00:57 G	39661344.42	39661344.54	39661344.65	0.0090	0.0072
Mercury	103877-03-19 04:18 G	39661432.55	39661432.68	39661432.84	0.0090	0.0062
Mercury	103877-06-15 08:23 G	39661520.69	39661520.85	39661521.01	0.0090	0.0051
Mercury	103877-09-11 11:59 G	39661608.84	39661609.00	39661609.19	0.0090	0.0040
Mercury	103877-12-08 15:49 G	39661696.98	39661697.16	39661697.35	0.0090	0.0030
Mercury	103878-03-06 19:40 G	39661785.13	39661785.32	39661785.52	0.0090	0.0019
Mercury	103878-06-02 23:30 G	39661873.29	39661873.48	39661873.68	0.0090	0.0008
Mercury	103878-08-30 03:21 G	39661961.44	39661961.64	39661961.84	0.0090	0.0003
Mercury	103878-11-26 06:57 G	39662049.60	39662049.79	39662049.99	0.0090	0.0014
Mercury	103879-02-22 11:01 G	39662137.77	39662137.96	39662138.15	0.0090	0.0024
Mercury	103879-05-21 14:37 G	39662225.93	39662226.11	39662226.30	0.0090	0.0035
Mercury	103879-08-17 18:13 G	39662314.10	39662314.26	39662314.44	0.0090	0.0046
Mercury	103879-11-13 22:18 G	39662402.28	39662402.43	39662402.58	0.0090	0.0056
Mercury	103880-02-10 01:54 G	39662490.46	39662490.58	39662490.72	0.0090	0.0067
Mercury	103880-05-08 05:30 G	39662578.65	39662578.73	39662578.85	0.0090	0.0078
Mercury	103880-08-04 09:06 G	39662666.88	39662666.88	39662666.94	0.0090	0.0089
Moon	103895-11-02 03:35 G	39668234.56	39668234.65	39668234.77	0.0090	0.0082
Earth	103895-11-02 06:42 G	39668234.74	39668234.78	39668234.87	0.0090	0.0087 *
Earth	103896-11-03 18:42 G	39668602.12	39668602.28	39668602.46	0.0090	0.0066

Moon	103896-11-03 21:49 G	39668602.26	39668602.41	39668602.59	0.0090	0.0070	*
Venus	103897-01-22 18:28 G	39668682.22	39668682.27	39668682.37	0.0090	0.0084	
Venus	103897-09-05 07:40 G	39668907.70	39668907.82	39668907.95	0.0090	0.0073	
Moon	103897-11-06 03:49 G	39668969.46	39668969.66	39668969.90	0.0090	0.0042	
Earth	103897-11-06 06:13 G	39668969.56	39668969.76	39668969.99	0.0090	0.0046	*
Venus	103898-04-18 19:54 G	39669133.20	39669133.33	39669133.50	0.0090	0.0063	
Earth	103898-11-08 18:13 G	39669337.02	39669337.26	39669337.50	0.0090	0.0025	
Moon	103898-11-08 18:28 G	39669337.04	39669337.27	39669337.54	0.0090	0.0030	*
Venus	103898-11-30 08:52 G	39669358.70	39669358.87	39669359.05	0.0090	0.0052	
Venus	103899-07-13 21:21 G	39669584.21	39669584.39	39669584.59	0.0090	0.0042	
Earth	103899-11-11 05:45 G	39669704.49	39669704.74	39669705.00	0.0090	0.0005	
Moon	103899-11-11 05:59 G	39669704.50	39669704.75	39669704.99	0.0090	0.0001	*
Venus	103900-02-24 10:04 G	39669809.72	39669809.92	39669810.13	0.0090	0.0031	
Venus	103900-10-07 22:33 G	39670035.24	39670035.44	39670035.66	0.0090	0.0021	
Moon	103900-11-13 15:35 G	39670071.90	39670072.15	39670072.42	0.0090	0.0012	
Earth	103900-11-13 17:30 G	39670071.98	39670072.23	39670072.48	0.0090	0.0016	*
Venus	103901-05-21 11:16 G	39670260.76	39670260.97	39670261.19	0.0090	0.0010	
Earth	103901-11-16 04:18 G	39670439.47	39670439.68	39670439.93	0.0090	0.0037	
Moon	103901-11-16 07:25 G	39670439.59	39670439.81	39670440.04	0.0090	0.0041	*
Venus	103902-01-01 23:45 G	39670486.28	39670486.49	39670486.71	0.0090	0.0001	
Venus	103902-08-15 12:13 G	39670711.81	39670712.01	39670712.23	0.0090	0.0012	
Moon	103902-11-18 12:28 G	39670806.83	39670807.02	39670807.25	0.0090	0.0053	
Earth	103902-11-18 15:49 G	39670806.98	39670807.16	39670807.37	0.0090	0.0057	*
Venus	103903-03-29 00:57 G	39670937.33	39670937.54	39670937.75	0.0090	0.0022	
Venus	103903-11-09 13:11 G	39671162.86	39671163.05	39671163.26	0.0090	0.0033	
Earth	103903-11-21 03:06 G	39671174.52	39671174.63	39671174.77	0.0090	0.0077	
Moon	103903-11-21 06:42 G	39671174.70	39671174.78	39671174.90	0.0090	0.0082	*
Venus	103904-06-22 01:40 G	39671388.39	39671388.57	39671388.77	0.0090	0.0043	
Venus	103905-02-02 13:54 G	39671613.93	39671614.08	39671614.27	0.0090	0.0054	
Venus	103905-09-16 02:37 G	39671839.47	39671839.61	39671839.77	0.0090	0.0064	

Venus	103906-04-29 15:21 G	39672065.02	39672065.14	39672065.26	0.0090	0.0074
Venus	103906-12-11 03:21 G	39672290.59	39672290.64	39672290.73	0.0090	0.0085
Mars	103933-09-04 22:47 G	39682055.19	39682055.45	39682055.72	0.0089	0.0038
Mars	103935-07-30 17:59 G	39682749.05	39682749.25	39682749.51	0.0089	0.0057
Mercury	103957-04-20 14:52 G	39690684.10	39690684.12	39690684.17	0.0088	0.0084
Mercury	103957-07-17 16:18 G	39690772.13	39690772.18	39690772.25	0.0088	0.0077
Mercury	103957-10-13 17:45 G	39690860.16	39690860.24	39690860.32	0.0088	0.0070
Mercury	103958-01-09 18:57 G	39690948.21	39690948.29	39690948.39	0.0088	0.0063
Mercury	103958-04-07 20:09 G	39691036.25	39691036.34	39691036.45	0.0088	0.0057
Mercury	103958-07-04 21:21 G	39691124.29	39691124.39	39691124.51	0.0088	0.0050
Mercury	103958-09-30 22:47 G	39691212.34	39691212.45	39691212.57	0.0088	0.0043
Mercury	103958-12-27 23:59 G	39691300.39	39691300.50	39691300.63	0.0088	0.0036
Mercury	103959-03-26 01:25 G	39691388.43	39691388.56	39691388.68	0.0088	0.0029
Mercury	103959-06-22 02:37 G	39691476.48	39691476.61	39691476.74	0.0088	0.0022
Mercury	103959-09-18 03:49 G	39691564.53	39691564.66	39691564.79	0.0088	0.0016
Mercury	103959-12-15 05:01 G	39691652.58	39691652.71	39691652.85	0.0088	0.0009
Mercury	103960-03-12 06:28 G	39691740.64	39691740.77	39691740.90	0.0088	0.0003
Mercury	103960-06-08 07:40 G	39691828.69	39691828.82	39691828.95	0.0088	0.0005
Mercury	103960-09-04 08:52 G	39691916.74	39691916.87	39691917.00	0.0088	0.0012
Mercury	103960-12-01 10:04 G	39692004.79	39692004.92	39692005.05	0.0088	0.0019
Mercury	103961-02-27 11:16 G	39692092.85	39692092.97	39692093.10	0.0088	0.0025
Mercury	103961-05-26 12:42 G	39692180.91	39692181.03	39692181.15	0.0088	0.0032
Mercury	103961-08-22 13:40 G	39692268.96	39692269.07	39692269.20	0.0088	0.0039
Mercury	103961-11-18 14:52 G	39692357.02	39692357.12	39692357.24	0.0088	0.0046
Mercury	103962-02-14 16:04 G	39692445.08	39692445.17	39692445.29	0.0088	0.0053
Mercury	103962-05-13 17:30 G	39692533.14	39692533.23	39692533.33	0.0088	0.0059
Mercury	103962-08-09 18:42 G	39692621.20	39692621.28	39692621.38	0.0088	0.0066
Mercury	103962-11-05 19:54 G	39692709.27	39692709.33	39692709.41	0.0088	0.0073
Mercury	103963-02-01 21:21 G	39692797.34	39692797.39	39692797.45	0.0088	0.0079
Mercury	103963-04-30 22:33 G	39692885.42	39692885.44	39692885.47	0.0088	0.0086

Moon	103978-05-03 02:23 G	39698366.59	39698366.60	39698366.66	0.0088	0.0087
Earth	103978-05-03 06:13 G	39698366.68	39698366.76	39698366.86	0.0088	0.0082
Earth	103979-05-05 17:30 G	39698734.07	39698734.23	39698734.43	0.0088	0.0063
Moon	103979-05-05 21:21 G	39698734.21	39698734.39	39698734.60	0.0088	0.0058 *
Venus	103979-10-22 16:18 G	39698904.09	39698904.18	39698904.28	0.0088	0.0079
Moon	103980-05-07 03:06 G	39699101.43	39699101.63	39699101.85	0.0088	0.0048
Earth	103980-05-07 05:45 G	39699101.52	39699101.74	39699101.97	0.0088	0.0043 *
Venus	103980-06-04 05:45 G	39699129.61	39699129.74	39699129.88	0.0088	0.0069
Venus	103981-01-15 18:57 G	39699355.14	39699355.29	39699355.47	0.0088	0.0059
Earth	103981-05-09 17:16 G	39699468.98	39699469.22	39699469.48	0.0088	0.0024
Moon	103981-05-09 18:57 G	39699469.04	39699469.29	39699469.57	0.0088	0.0020 *
Venus	103981-08-29 08:23 G	39699580.68	39699580.85	39699581.05	0.0088	0.0049
Venus	103982-04-11 22:18 G	39699806.23	39699806.43	39699806.63	0.0088	0.0038
Moon	103982-05-12 04:33 G	39699836.45	39699836.69	39699836.95	0.0088	0.0009
Earth	103982-05-12 05:16 G	39699836.46	39699836.72	39699836.98	0.0088	0.0004 *
Venus	103982-11-23 11:30 G	39700031.77	39700031.98	39700032.20	0.0088	0.0028
Moon	103983-05-14 15:21 G	39700203.90	39700204.14	39700204.42	0.0088	0.0021
Earth	103983-05-14 17:01 G	39700203.96	39700204.21	39700204.47	0.0088	0.0016 *
Venus	103983-07-07 00:57 G	39700257.33	39700257.54	39700257.77	0.0088	0.0018
Venus	103984-02-17 14:37 G	39700482.89	39700483.11	39700483.34	0.0088	0.0007
Earth	103984-05-16 04:33 G	39700571.47	39700571.69	39700571.94	0.0088	0.0036
Moon	103984-05-16 06:28 G	39700571.55	39700571.77	39700572.02	0.0088	0.0032 *
Venus	103984-09-30 04:04 G	39700708.45	39700708.67	39700708.90	0.0088	0.0004
Venus	103985-05-13 17:30 G	39700934.01	39700934.23	39700934.46	0.0088	0.0014
Moon	103985-05-18 13:25 G	39700938.88	39700939.06	39700939.27	0.0088	0.0060
Earth	103985-05-18 16:47 G	39700939.00	39700939.20	39700939.41	0.0088	0.0055 *
Venus	103985-12-25 06:57 G	39701159.58	39701159.79	39701160.02	0.0088	0.0024
Earth	103986-05-21 04:33 G	39701306.57	39701306.69	39701306.84	0.0088	0.0075
Moon	103986-05-21 08:23 G	39701306.70	39701306.85	39701307.02	0.0088	0.0070 *
Venus	103986-08-07 20:37 G	39701385.16	39701385.36	39701385.57	0.0088	0.0034

Venus	103987-03-21 10:04 G	39701610.74	39701610.92	39701611.13	0.0088	0.0045
Venus	103987-11-01 23:30 G	39701836.32	39701836.48	39701836.67	0.0088	0.0055
Venus	103988-06-14 13:11 G	39702061.91	39702062.05	39702062.21	0.0088	0.0065
Venus	103989-01-26 02:52 G	39702287.51	39702287.62	39702287.74	0.0088	0.0075
Venus	103989-09-08 15:49 G	39702513.14	39702513.16	39702513.24	0.0088	0.0086

# 105TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 105th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	104017-06-26 02:09 G		39712665.27	39712665.59	39712665.93	0.0089	0.0017	
Mercury	104041-03-25 15:21 G		39721339.14	39721339.14	39721339.20	0.0089	0.0089	
Mercury	104041-06-21 19:25 G		39721427.23	39721427.31	39721427.42	0.0089	0.0078	
Mercury	104041-09-17 23:30 G		39721515.35	39721515.48	39721515.61	0.0090	0.0067	
Mercury	104041-12-15 02:52 G		39721603.49	39721603.62	39721603.79	0.0090	0.0057	
Mercury	104042-03-13 06:57 G		39721691.63	39721691.79	39721691.96	0.0090	0.0046	
Mercury	104042-06-09 10:33 G		39721779.77	39721779.94	39721780.13	0.0090	0.0036	
Mercury	104042-09-05 14:23 G		39721867.92	39721868.10	39721868.30	0.0090	0.0025	
Mercury	104042-12-02 18:28 G		39721956.08	39721956.27	39721956.46	0.0090	0.0014	
Mercury	104043-02-28 22:18 G		39722044.23	39722044.43	39722044.62	0.0090	0.0003	
Mercury	104043-05-28 02:09 G		39722132.39	39722132.59	39722132.78	0.0090	0.0008	
Mercury	104043-08-24 05:45 G		39722220.55	39722220.74	39722220.94	0.0090	0.0019	
Mercury	104043-11-20 09:21 G		39722308.72	39722308.89	39722309.09	0.0090	0.0030	



Mercury	104044-02-16 13:25 G	39722396.88	39722397.06	39722397.24	0.0090	0.0040
Mercury	104044-05-14 17:01 G	39722485.06	39722485.21	39722485.38	0.0090	0.0051
Mercury	104044-08-10 20:37 G	39722573.24	39722573.36	39722573.52	0.0090	0.0062
Mercury	104044-11-07 00:42 G	39722661.42	39722661.53	39722661.65	0.0090	0.0072
Mercury	104045-02-03 04:18 G	39722749.62	39722749.68	39722749.77	0.0090	0.0083
Moon	104060-11-04 02:52 G	39728502.48	39728502.62	39728502.81	0.0090	0.0070
Earth	104060-11-04 04:33 G	39728502.56	39728502.69	39728502.86	0.0090	0.0073 *
Venus	104061-04-27 06:28 G	39728676.73	39728676.77	39728676.85	0.0090	0.0086
Earth	104061-11-06 15:49 G	39728869.98	39728870.16	39728870.39	0.0090	0.0053
Moon	104061-11-06 18:57 G	39728870.11	39728870.29	39728870.50	0.0090	0.0056 *
Venus	104061-12-08 18:42 G	39728902.19	39728902.28	39728902.42	0.0090	0.0076
Venus	104062-07-22 07:40 G	39729127.69	39729127.82	39729127.98	0.0090	0.0065
Moon	104062-11-09 00:42 G	39729237.30	39729237.53	39729237.78	0.0090	0.0029
Earth	104062-11-09 03:49 G	39729237.43	39729237.66	39729237.91	0.0090	0.0032 *
Venus	104063-03-04 20:09 G	39729353.19	39729353.34	39729353.53	0.0090	0.0055
Venus	104063-10-16 08:52 G	39729578.69	39729578.87	39729579.07	0.0090	0.0044
Earth	104063-11-11 15:35 G	39729604.90	39729605.15	39729605.41	0.0090	0.0011
Moon	104063-11-11 19:11 G	39729605.06	39729605.30	39729605.56	0.0090	0.0014 *
Venus	104064-05-28 21:21 G	39729804.21	39729804.39	39729804.60	0.0090	0.0034
Moon	104064-11-13 00:13 G	39729972.26	39729972.51	39729972.76	0.0090	0.0013
Earth	104064-11-13 03:06 G	39729972.39	39729972.63	39729972.89	0.0090	0.0010 *
Venus	104065-01-09 10:04 G	39730029.72	39730029.92	39730030.14	0.0090	0.0023
Venus	104065-08-22 22:47 G	39730255.25	39730255.45	39730255.67	0.0090	0.0013
Earth	104065-11-15 14:37 G	39730339.87	39730340.11	39730340.35	0.0090	0.0030
Moon	104065-11-15 17:01 G	39730339.98	39730340.21	39730340.47	0.0090	0.0028 *
Venus	104066-04-05 11:30 G	39730480.77	39730480.98	39730481.20	0.0090	0.0002
Venus	104066-11-16 23:59 G	39730706.29	39730706.50	39730706.72	0.0090	0.0009
Moon	104066-11-18 00:13 G	39730707.33	39730707.51	39730707.73	0.0090	0.0054
Earth	104066-11-18 01:54 G	39730707.39	39730707.58	39730707.81	0.0090	0.0051 *
Venus	104067-06-30 12:13 G	39730931.81	39730932.01	39730932.23	0.0090	0.0020

Moon	104067-11-20 12:57 G	39731074.89	39731075.04	39731075.24	0.0090	0.0068
Earth	104067-11-20 13:25 G	39731074.92	39731075.06	39731075.22	0.0090	0.0071 *
Venus	104068-02-11 00:57 G	39731157.34	39731157.54	39731157.75	0.0090	0.0030
Venus	104068-09-23 13:25 G	39731382.88	39731383.06	39731383.26	0.0090	0.0041
Venus	104069-05-07 01:54 G	39731608.41	39731608.58	39731608.77	0.0090	0.0051
Venus	104069-12-18 14:09 G	39731833.95	39731834.09	39731834.27	0.0090	0.0062
Venus	104070-08-01 02:52 G	39732059.50	39732059.62	39732059.76	0.0090	0.0072
Venus	104071-03-14 15:21 G	39732285.07	39732285.14	39732285.23	0.0090	0.0082
Jupiter	104090-02-19 17:45 G	39739201.75	39739202.24	39739202.78	0.0089	0.0019
Mars	104097-04-20 10:18 G	39741818.77	39741818.93	39741819.13	0.0089	0.0069
Mars	104099-03-15 04:04 G	39742512.40	39742512.67	39742512.97	0.0089	0.0025
Mercury	104121-10-20 13:40 G	39750767.06	39750767.07	39750767.09	0.0088	0.0087
Mercury	104122-01-16 15:06 G	39750855.08	39750855.13	39750855.18	0.0088	0.0080
Mercury	104122-04-14 16:04 G	39750943.12	39750943.17	39750943.26	0.0088	0.0074
Mercury	104122-07-11 17:30 G	39751031.15	39751031.23	39751031.32	0.0088	0.0067
Mercury	104122-10-07 18:42 G	39751119.20	39751119.28	39751119.39	0.0088	0.0060
Mercury	104123-01-03 20:09 G	39751207.24	39751207.34	39751207.45	0.0088	0.0053
Mercury	104123-04-01 21:35 G	39751295.28	39751295.40	39751295.51	0.0088	0.0046
Mercury	104123-06-28 22:33 G	39751383.33	39751383.44	39751383.57	0.0088	0.0040
Mercury	104123-09-24 23:59 G	39751471.38	39751471.50	39751471.62	0.0088	0.0033
Mercury	104123-12-22 01:11 G	39751559.43	39751559.55	39751559.68	0.0088	0.0026
Mercury	104124-03-19 02:37 G	39751647.48	39751647.61	39751647.73	0.0088	0.0019
Mercury	104124-06-15 03:49 G	39751735.53	39751735.66	39751735.79	0.0088	0.0012
Mercury	104124-09-11 05:01 G	39751823.58	39751823.71	39751823.84	0.0088	0.0005
Mercury	104124-12-08 06:13 G	39751911.63	39751911.76	39751911.89	0.0088	0.0002
Mercury	104125-03-06 07:25 G	39751999.68	39751999.81	39751999.95	0.0088	0.0008
Mercury	104125-06-02 08:52 G	39752087.74	39752087.87	39752088.00	0.0088	0.0015
Mercury	104125-08-29 09:49 G	39752175.79	39752175.91	39752176.05	0.0088	0.0022
Mercury	104125-11-25 11:01 G	39752263.85	39752263.96	39752264.09	0.0088	0.0029
Mercury	104126-02-21 12:28 G	39752351.90	39752352.02	39752352.14	0.0088	0.0035

Mercury	104126-05-20 13:40 G	39752439.96	39752440.07	39752440.19	0.0088	0.0042
Mercury	104126-08-16 14:52 G	39752528.02	39752528.12	39752528.24	0.0088	0.0049
Mercury	104126-11-12 16:04 G	39752616.08	39752616.17	39752616.28	0.0088	0.0056
Mercury	104127-02-08 17:30 G	39752704.14	39752704.23	39752704.32	0.0088	0.0062
Mercury	104127-05-07 18:42 G	39752792.20	39752792.28	39752792.36	0.0088	0.0069
Mercury	104127-08-03 19:40 G	39752880.27	39752880.32	39752880.40	0.0088	0.0076
Mercury	104127-10-30 20:52 G	39752968.35	39752968.37	39752968.43	0.0088	0.0083
Moon	104142-05-03 13:54 G	39758267.06	39758267.08	39758267.17	0.0088	0.0086
Moon	104143-05-06 01:25 G	39758634.43	39758634.56	39758634.73	0.0088	0.0073
Earth	104143-05-06 02:52 G	39758634.47	39758634.62	39758634.79	0.0088	0.0069 *
Venus	104144-01-25 02:23 G	39758898.52	39758898.60	39758898.69	0.0088	0.0081
Earth	104144-05-07 14:23 G	39759001.91	39759002.10	39759002.34	0.0088	0.0050
Moon	104144-05-07 16:47 G	39759002.00	39759002.20	39759002.43	0.0088	0.0046 *
Venus	104144-09-06 15:49 G	39759124.04	39759124.16	39759124.30	0.0088	0.0071
Venus	104145-04-20 05:01 G	39759349.57	39759349.71	39759349.89	0.0088	0.0061
Moon	104145-05-09 23:45 G	39759369.24	39759369.49	39759369.74	0.0088	0.0033
Earth	104145-05-10 02:23 G	39759369.37	39759369.60	39759369.86	0.0088	0.0030 *
Venus	104145-12-01 18:28 G	39759575.10	39759575.27	39759575.47	0.0088	0.0051
Earth	104146-05-12 14:23 G	39759736.85	39759737.10	39759737.36	0.0088	0.0010
Moon	104146-05-12 18:13 G	39759737.00	39759737.26	39759737.52	0.0088	0.0006 *
Venus	104146-07-15 07:54 G	39759800.65	39759800.83	39759801.05	0.0088	0.0041
Venus	104147-02-25 21:49 G	39760026.20	39760026.41	39760026.62	0.0088	0.0030
Moon	104147-05-14 22:47 G	39760104.20	39760104.45	39760104.71	0.0088	0.0006
Earth	104147-05-15 02:09 G	39760104.34	39760104.59	39760104.86	0.0088	0.0010 *
Venus	104147-10-09 11:16 G	39760251.75	39760251.97	39760252.19	0.0088	0.0020
Earth	104148-05-16 13:40 G	39760471.84	39760472.07	39760472.33	0.0088	0.0030
Moon	104148-05-16 17:01 G	39760471.98	39760472.21	39760472.47	0.0088	0.0033 *
Venus	104148-05-22 00:42 G	39760477.31	39760477.53	39760477.76	0.0088	0.0010
Venus	104149-01-02 14:09 G	39760702.87	39760703.09	39760703.32	0.0088	0.0001
Moon	104149-05-18 23:30 G	39760839.29	39760839.48	39760839.72	0.0088	0.0046

Earth	104149-05-19 01:54 G	39760839.37	39760839.58	39760839.80	0.0088	0.0049 *
Venus	104149-08-16 03:35 G	39760928.43	39760928.65	39760928.88	0.0088	0.0011
Venus	104150-03-29 17:01 G	39761154.00	39761154.21	39761154.44	0.0088	0.0022
Earth	104150-05-21 13:25 G	39761206.92	39761207.06	39761207.24	0.0088	0.0069
Moon	104150-05-21 14:09 G	39761206.96	39761207.09	39761207.27	0.0088	0.0072 *
Venus	104150-11-10 06:42 G	39761379.57	39761379.78	39761379.99	0.0088	0.0032
Moon	104151-05-24 02:09 G	39761574.53	39761574.59	39761574.64	0.0088	0.0085
Venus	104151-06-23 20:09 G	39761605.15	39761605.34	39761605.54	0.0088	0.0042
Venus	104152-02-04 09:21 G	39761830.73	39761830.89	39761831.09	0.0088	0.0053
Venus	104152-09-16 23:01 G	39762056.32	39762056.46	39762056.63	0.0088	0.0063
Venus	104153-04-30 12:42 G	39762281.92	39762282.03	39762282.17	0.0088	0.0073
Venus	104153-12-12 02:37 G	39762507.54	39762507.61	39762507.67	0.0088	0.0083
Mars	104181-02-07 18:28 G	39772427.03	39772427.27	39772427.56	0.0089	0.0055
Mars	104183-01-04 18:28 G	39773123.03	39773123.27	39773123.56	0.0089	0.0055
Mercury	104205-12-22 14:09 G	39781510.03	39781510.09	39781510.17	0.0090	0.0084
Mercury	104206-03-20 18:13 G	39781598.15	39781598.26	39781598.37	0.0090	0.0073
Mercury	104206-06-16 21:35 G	39781686.28	39781686.40	39781686.55	0.0090	0.0063
Mercury	104206-09-13 01:40 G	39781774.41	39781774.57	39781774.73	0.0090	0.0052
Mercury	104206-12-10 05:16 G	39781862.56	39781862.72	39781862.90	0.0090	0.0041
Mercury	104207-03-08 09:06 G	39781950.70	39781950.88	39781951.07	0.0090	0.0031
Mercury	104207-06-04 12:57 G	39782038.86	39782039.04	39782039.24	0.0090	0.0020
Mercury	104207-08-31 16:47 G	39782127.01	39782127.20	39782127.40	0.0090	0.0009
Mercury	104207-11-27 20:37 G	39782215.17	39782215.36	39782215.56	0.0090	0.0002
Mercury	104208-02-24 00:28 G	39782303.33	39782303.52	39782303.72	0.0090	0.0012
Mercury	104208-05-22 04:18 G	39782391.49	39782391.68	39782391.87	0.0090	0.0023
Mercury	104208-08-18 07:54 G	39782479.66	39782479.83	39782480.02	0.0090	0.0034
Mercury	104208-11-14 11:30 G	39782567.83	39782567.98	39782568.17	0.0090	0.0045
Mercury	104209-02-10 15:21 G	39782656.00	39782656.14	39782656.31	0.0090	0.0056
Mercury	104209-05-09 19:25 G	39782744.18	39782744.31	39782744.44	0.0090	0.0066
Mercury	104209-08-05 23:01 G	39782832.37	39782832.46	39782832.57	0.0090	0.0077

Mercury	104209-11-02 02:37 G	39782920.59	39782920.61	39782920.67	0.0090	0.0088
Moon	104224-11-05 11:30 G	39788402.88	39788402.98	39788403.09	0.0090	0.0081
Earth	104224-11-05 14:09 G	39788403.01	39788403.09	39788403.24	0.0090	0.0080 *
Venus	104225-07-31 18:13 G	39788671.23	39788671.26	39788671.31	0.0090	0.0088
Earth	104225-11-08 02:09 G	39788770.41	39788770.59	39788770.79	0.0090	0.0059
Moon	104225-11-08 04:18 G	39788770.51	39788770.68	39788770.90	0.0090	0.0059 *
Venus	104226-03-14 06:28 G	39788896.69	39788896.77	39788896.90	0.0090	0.0078
Venus	104226-10-25 19:25 G	39789122.18	39789122.31	39789122.46	0.0090	0.0067
Moon	104226-11-10 12:13 G	39789137.79	39789138.01	39789138.23	0.0090	0.0039
Earth	104226-11-10 13:40 G	39789137.85	39789138.07	39789138.31	0.0090	0.0039 *
Venus	104227-06-08 07:40 G	39789347.67	39789347.82	39789348.00	0.0090	0.0057
Moon	104227-11-13 01:11 G	39789505.30	39789505.55	39789505.82	0.0090	0.0017
Earth	104227-11-13 01:25 G	39789505.31	39789505.56	39789505.81	0.0090	0.0018 *
Venus	104228-01-19 20:37 G	39789573.18	39789573.36	39789573.55	0.0090	0.0046
Venus	104228-09-01 09:06 G	39789798.69	39789798.88	39789799.09	0.0090	0.0036
Earth	104228-11-14 12:57 G	39789872.78	39789873.04	39789873.29	0.0090	0.0003
Moon	104228-11-14 14:09 G	39789872.84	39789873.09	39789873.33	0.0090	0.0002 *
Venus	104229-04-14 21:49 G	39790024.21	39790024.41	39790024.62	0.0090	0.0025
Moon	104229-11-16 22:18 G	39790240.18	39790240.43	39790240.69	0.0090	0.0024
Earth	104229-11-17 00:13 G	39790240.28	39790240.51	39790240.77	0.0090	0.0024 *
Venus	104229-11-26 10:18 G	39790249.72	39790249.93	39790250.15	0.0090	0.0015
Venus	104230-07-09 23:01 G	39790475.24	39790475.46	39790475.67	0.0090	0.0004
Earth	104230-11-19 11:59 G	39790607.78	39790608.00	39790608.23	0.0090	0.0044
Moon	104230-11-19 15:06 G	39790607.92	39790608.13	39790608.36	0.0090	0.0043 *
Venus	104231-02-20 11:30 G	39790700.77	39790700.98	39790701.20	0.0090	0.0007
Venus	104231-10-04 00:13 G	39790926.30	39790926.51	39790926.72	0.0090	0.0017
Moon	104231-11-21 19:40 G	39790975.17	39790975.32	39790975.52	0.0090	0.0066
Earth	104231-11-21 23:01 G	39790975.31	39790975.46	39790975.66	0.0090	0.0065 *
Venus	104232-05-16 12:42 G	39791151.83	39791152.03	39791152.24	0.0090	0.0028
Earth	104232-11-23 10:33 G	39791342.88	39791342.94	39791343.04	0.0090	0.0085

Moon	104232-11-23 13:54 G	39791343.03	39791343.08	39791343.19	0.0090	0.0085 *
Venus	104232-12-28 01:25 G	39791377.36	39791377.56	39791377.75	0.0090	0.0038
Venus	104233-08-10 13:40 G	39791602.90	39791603.07	39791603.26	0.0090	0.0049
Venus	104234-03-24 02:23 G	39791828.44	39791828.60	39791828.76	0.0090	0.0059
Venus	104234-11-04 14:23 G	39792053.99	39792054.10	39792054.26	0.0090	0.0070
Venus	104235-06-18 03:06 G	39792279.54	39792279.63	39792279.74	0.0090	0.0080
Jupiter	104256-04-27 11:16 G	39799898.82	39799898.97	39799899.23	0.0089	0.0082
Mars	104262-10-30 15:49 G	39802275.87	39802276.16	39802276.46	0.0089	0.0007
Mars	104264-09-23 10:04 G	39802969.88	39802969.92	39802969.98	0.0089	0.0087
Mercury	104286-07-18 13:25 G	39810938.03	39810938.06	39810938.11	0.0088	0.0084
Mercury	104286-10-14 14:52 G	39811026.06	39811026.12	39811026.18	0.0088	0.0077
Mercury	104287-01-10 16:18 G	39811114.10	39811114.18	39811114.25	0.0088	0.0070
Mercury	104287-04-08 17:16 G	39811202.14	39811202.22	39811202.32	0.0088	0.0064
Mercury	104287-07-05 18:28 G	39811290.18	39811290.27	39811290.38	0.0088	0.0057
Mercury	104287-10-01 19:54 G	39811378.23	39811378.33	39811378.44	0.0088	0.0050
Mercury	104287-12-28 21:21 G	39811466.27	39811466.39	39811466.50	0.0088	0.0043
Mercury	104288-03-25 22:18 G	39811554.32	39811554.43	39811554.56	0.0088	0.0037
Mercury	104288-06-21 23:45 G	39811642.37	39811642.49	39811642.62	0.0088	0.0030
Mercury	104288-09-18 00:57 G	39811730.42	39811730.54	39811730.67	0.0088	0.0023
Mercury	104288-12-15 02:23 G	39811818.47	39811818.60	39811818.73	0.0088	0.0016
Mercury	104289-03-13 03:35 G	39811906.52	39811906.65	39811906.78	0.0088	0.0009
Mercury	104289-06-09 04:47 G	39811994.57	39811994.70	39811994.83	0.0088	0.0003
Mercury	104289-09-05 05:59 G	39812082.62	39812082.75	39812082.88	0.0088	0.0004
Mercury	104289-12-02 07:11 G	39812170.67	39812170.80	39812170.94	0.0088	0.0011
Mercury	104290-02-28 08:23 G	39812258.73	39812258.85	39812258.99	0.0088	0.0018
Mercury	104290-05-27 09:35 G	39812346.78	39812346.90	39812347.03	0.0088	0.0025
Mercury	104290-08-23 11:01 G	39812434.84	39812434.96	39812435.08	0.0088	0.0031
Mercury	104290-11-19 12:13 G	39812522.89	39812523.01	39812523.13	0.0088	0.0038
Mercury	104291-02-15 13:25 G	39812610.95	39812611.06	39812611.18	0.0088	0.0045
Mercury	104291-05-14 14:37 G	39812699.01	39812699.11	39812699.22	0.0088	0.0052

Mercury	104291-08-10 16:04 G	39812787.07	39812787.17	39812787.27	0.0088	0.0058
Mercury	104291-11-06 17:16 G	39812875.13	39812875.22	39812875.31	0.0088	0.0065
Mercury	104292-02-02 18:13 G	39812963.20	39812963.26	39812963.35	0.0088	0.0072
Mercury	104292-04-30 19:25 G	39813051.27	39813051.31	39813051.38	0.0088	0.0079
Mercury	104292-07-27 20:52 G	39813139.35	39813139.37	39813139.41	0.0088	0.0085
Moon	104307-05-07 08:23 G	39818534.72	39818534.85	39818535.01	0.0088	0.0073
Earth	104307-05-07 11:30 G	39818534.87	39818534.98	39818535.14	0.0088	0.0076 *
Venus	104308-04-29 11:45 G	39818892.95	39818892.99	39818893.08	0.0088	0.0084
Earth	104308-05-08 23:30 G	39818902.29	39818902.48	39818902.70	0.0088	0.0056
Moon	104308-05-09 02:52 G	39818902.43	39818902.62	39818902.83	0.0088	0.0057 *
Venus	104308-12-11 01:40 G	39819118.45	39819118.57	39819118.70	0.0088	0.0073
Moon	104309-05-11 09:35 G	39819269.67	39819269.90	39819270.14	0.0088	0.0034
Earth	104309-05-11 11:45 G	39819269.75	39819269.99	39819270.23	0.0088	0.0036 *
Venus	104309-07-24 15:06 G	39819343.98	39819344.13	39819344.29	0.0088	0.0063
Venus	104310-03-07 04:33 G	39819569.53	39819569.69	39819569.88	0.0088	0.0053
Earth	104310-05-13 23:01 G	39819637.22	39819637.46	39819637.73	0.0088	0.0017
Moon	104310-05-13 23:45 G	39819637.23	39819637.49	39819637.76	0.0088	0.0019 *
Venus	104310-10-18 17:59 G	39819795.07	39819795.25	39819795.46	0.0088	0.0043
Earth	104311-05-16 11:16 G	39820004.71	39820004.97	39820005.23	0.0088	0.0003
Moon	104311-05-16 11:30 G	39820004.73	39820004.98	39820005.23	0.0088	0.0005 *
Venus	104311-06-01 07:25 G	39820020.61	39820020.81	39820021.03	0.0088	0.0033
Venus	104312-01-12 21:06 G	39820246.17	39820246.38	39820246.60	0.0088	0.0022
Moon	104312-05-17 20:52 G	39820372.12	39820372.37	39820372.64	0.0088	0.0021
Earth	104312-05-17 22:47 G	39820372.21	39820372.45	39820372.71	0.0088	0.0024 *
Venus	104312-08-25 10:33 G	39820471.72	39820471.94	39820472.17	0.0088	0.0012
Venus	104313-04-08 00:13 G	39820697.28	39820697.51	39820697.73	0.0088	0.0001
Earth	104313-05-20 10:33 G	39820739.72	39820739.94	39820740.18	0.0088	0.0043
Moon	104313-05-20 13:11 G	39820739.85	39820740.05	39820740.29	0.0088	0.0046 *
Venus	104313-11-19 13:40 G	39820922.84	39820923.07	39820923.29	0.0088	0.0009
Moon	104314-05-22 18:57 G	39821107.11	39821107.29	39821107.49	0.0088	0.0061

Earth	104314-05-22 22:04 G	39821107.26	39821107.42	39821107.63	0.0088	0.0063 *
Venus	104314-07-03 03:06 G	39821148.41	39821148.63	39821148.85	0.0088	0.0019
Venus	104315-02-13 16:18 G	39821373.98	39821374.18	39821374.40	0.0088	0.0030
Earth	104315-05-25 10:18 G	39821474.85	39821474.93	39821475.02	0.0088	0.0082
Moon	104315-05-25 13:25 G	39821475.02	39821475.06	39821475.16	0.0088	0.0085 *
Venus	104315-09-27 05:45 G	39821599.55	39821599.74	39821599.95	0.0088	0.0040
Venus	104316-05-09 19:25 G	39821825.13	39821825.31	39821825.50	0.0088	0.0050
Venus	104316-12-21 08:23 G	39822050.71	39822050.85	39822051.04	0.0088	0.0061
Venus	104317-08-03 22:04 G	39822276.31	39822276.42	39822276.57	0.0088	0.0071
Venus	104318-03-17 11:45 G	39822501.92	39822501.99	39822502.09	0.0088	0.0081
Mars	104346-08-20 11:01 G	39832884.63	39832884.96	39832885.30	0.0089	0.0017
Mercury	104370-09-19 12:13 G	39841680.94	39841681.01	39841681.12	0.0089	0.0080
Mercury	104370-12-16 16:18 G	39841769.06	39841769.18	39841769.31	0.0090	0.0069
Mercury	104371-03-14 19:54 G	39841857.20	39841857.33	39841857.49	0.0090	0.0058
Mercury	104371-06-10 23:45 G	39841945.34	39841945.49	39841945.67	0.0090	0.0048
Mercury	104371-09-07 03:49 G	39842033.48	39842033.66	39842033.84	0.0090	0.0037
Mercury	104371-12-04 07:25 G	39842121.63	39842121.81	39842122.01	0.0090	0.0026
Mercury	104372-03-01 11:16 G	39842209.78	39842209.97	39842210.17	0.0090	0.0016
Mercury	104372-05-28 15:06 G	39842297.94	39842298.13	39842298.33	0.0090	0.0005
Mercury	104372-08-24 18:57 G	39842386.10	39842386.29	39842386.49	0.0090	0.0006
Mercury	104372-11-20 22:47 G	39842474.26	39842474.45	39842474.64	0.0090	0.0017
Mercury	104373-02-17 02:23 G	39842562.42	39842562.60	39842562.80	0.0090	0.0028
Mercury	104373-05-16 05:59 G	39842650.59	39842650.75	39842650.95	0.0090	0.0039
Mercury	104373-08-12 10:04 G	39842738.76	39842738.92	39842739.09	0.0090	0.0049
Mercury	104373-11-08 13:40 G	39842826.94	39842827.07	39842827.23	0.0090	0.0060
Mercury	104374-02-04 17:30 G	39842915.12	39842915.23	39842915.37	0.0090	0.0071
Mercury	104374-05-03 21:35 G	39843003.32	39843003.40	39843003.49	0.0090	0.0081
Earth	104388-11-05 23:01 G	39848303.43	39848303.46	39848303.56	0.0090	0.0087
Moon	104388-11-06 01:11 G	39848303.49	39848303.55	39848303.60	0.0090	0.0087 *
Moon	104389-11-08 08:52 G	39848670.71	39848670.87	39848671.07	0.0090	0.0065



Earth	104389-11-08 11:16 G	39848670.81	39848670.97	39848671.15	0.0090	0.0066	*
Venus	104390-06-16 17:45 G	39848891.16	39848891.24	39848891.35	0.0090	0.0080	
Earth	104390-11-10 22:33 G	39849038.24	39849038.44	39849038.68	0.0090	0.0046	
Moon	104390-11-11 01:54 G	39849038.39	39849038.58	39849038.81	0.0090	0.0047	*
Venus	104391-01-28 06:13 G	39849116.64	39849116.76	39849116.91	0.0090	0.0070	
Venus	104391-09-10 19:11 G	39849342.15	39849342.30	39849342.47	0.0090	0.0059	
Moon	104391-11-13 06:42 G	39849405.55	39849405.78	39849406.04	0.0090	0.0025	
Earth	104391-11-13 10:18 G	39849405.70	39849405.93	39849406.18	0.0090	0.0025	*
Venus	104392-04-23 07:40 G	39849567.65	39849567.82	39849568.01	0.0090	0.0049	
Earth	104392-11-14 21:49 G	39849773.16	39849773.41	39849773.67	0.0090	0.0005	
Moon	104392-11-15 01:25 G	39849773.31	39849773.56	39849773.82	0.0090	0.0006	*
Venus	104392-12-04 19:54 G	39849793.16	39849793.33	39849793.54	0.0090	0.0039	
Venus	104393-07-18 08:37 G	39850018.67	39850018.86	39850019.08	0.0090	0.0028	
Moon	104393-11-17 06:28 G	39850140.54	39850140.77	39850141.03	0.0090	0.0018	
Earth	104393-11-17 09:21 G	39850140.65	39850140.89	39850141.15	0.0090	0.0017	*
Venus	104394-02-28 21:06 G	39850244.18	39850244.38	39850244.61	0.0090	0.0018	
Venus	104394-10-12 10:04 G	39850469.71	39850469.92	39850470.13	0.0090	0.0007	
Earth	104394-11-19 20:52 G	39850508.15	39850508.37	39850508.61	0.0090	0.0037	
Moon	104394-11-19 22:33 G	39850508.21	39850508.44	39850508.69	0.0090	0.0036	*
Venus	104395-05-25 22:33 G	39850695.23	39850695.44	39850695.66	0.0090	0.0004	
Moon	104395-11-22 07:40 G	39850875.64	39850875.82	39850876.01	0.0090	0.0059	
Earth	104395-11-22 08:09 G	39850875.66	39850875.84	39850876.05	0.0090	0.0058	*
Venus	104396-01-06 11:01 G	39850920.75	39850920.96	39850921.18	0.0090	0.0015	
Venus	104396-08-18 23:45 G	39851146.29	39851146.49	39851146.70	0.0090	0.0025	
Moon	104396-11-23 18:42 G	39851243.16	39851243.28	39851243.43	0.0090	0.0077	
Earth	104396-11-23 19:54 G	39851243.21	39851243.33	39851243.46	0.0090	0.0078	*
Venus	104397-04-01 12:13 G	39851371.82	39851372.01	39851372.22	0.0090	0.0036	
Venus	104397-11-13 00:57 G	39851597.36	39851597.54	39851597.72	0.0090	0.0046	
Venus	104398-06-26 13:11 G	39851822.90	39851823.05	39851823.23	0.0090	0.0057	
Venus	104399-02-07 01:40 G	39852048.44	39852048.57	39852048.73	0.0090	0.0067	

Venus	104399-09-20 14:09 G	39852274.01	39852274.09	39852274.22	0.0090	0.0078
Venus	104400-05-03 02:37 G	39852499.59	39852499.61	39852499.68	0.0090	0.0088
Mars	104426-06-16 00:57 G	39862039.30	39862039.54	39862039.82	0.0089	0.0039
Mars	104428-05-09 18:57 G	39862733.07	39862733.29	39862733.53	0.0089	0.0055
Mercury	104451-01-17 11:59 G	39871021.00	39871021.00	39871021.01	0.0088	0.0088
Mercury	104451-04-15 13:11 G	39871109.01	39871109.05	39871109.11	0.0088	0.0081
Mercury	104451-07-12 14:37 G	39871197.04	39871197.11	39871197.18	0.0088	0.0074
Mercury	104451-10-08 16:04 G	39871285.08	39871285.17	39871285.25	0.0088	0.0067
Mercury	104452-01-04 17:01 G	39871373.13	39871373.21	39871373.31	0.0088	0.0061
Mercury	104452-04-01 18:13 G	39871461.17	39871461.26	39871461.38	0.0088	0.0054
Mercury	104452-06-28 19:40 G	39871549.21	39871549.32	39871549.44	0.0088	0.0047
Mercury	104452-09-24 21:06 G	39871637.26	39871637.38	39871637.49	0.0088	0.0040
Mercury	104452-12-21 22:04 G	39871725.31	39871725.42	39871725.55	0.0088	0.0034
Mercury	104453-03-19 23:30 G	39871813.36	39871813.48	39871813.61	0.0088	0.0027
Mercury	104453-06-16 00:42 G	39871901.40	39871901.53	39871901.66	0.0088	0.0020
Mercury	104453-09-12 01:54 G	39871989.45	39871989.58	39871989.72	0.0088	0.0014
Mercury	104453-12-09 03:21 G	39872077.51	39872077.64	39872077.77	0.0088	0.0006
Mercury	104454-03-07 04:33 G	39872165.56	39872165.69	39872165.82	0.0088	0.0000
Mercury	104454-06-03 05:45 G	39872253.61	39872253.74	39872253.87	0.0088	0.0007
Mercury	104454-08-30 06:57 G	39872341.66	39872341.79	39872341.92	0.0088	0.0014
Mercury	104454-11-26 08:09 G	39872429.72	39872429.84	39872429.97	0.0088	0.0021
Mercury	104455-02-22 09:21 G	39872517.77	39872517.89	39872518.02	0.0088	0.0028
Mercury	104455-05-21 10:47 G	39872605.83	39872605.95	39872606.07	0.0088	0.0034
Mercury	104455-08-17 11:59 G	39872693.89	39872694.00	39872694.12	0.0088	0.0041
Mercury	104455-11-13 13:11 G	39872781.94	39872782.05	39872782.16	0.0088	0.0048
Mercury	104456-02-09 14:09 G	39872870.00	39872870.09	39872870.21	0.0088	0.0055
Mercury	104456-05-07 15:35 G	39872958.07	39872958.15	39872958.25	0.0088	0.0061
Mercury	104456-08-03 16:47 G	39873046.13	39873046.20	39873046.29	0.0088	0.0068
Mercury	104456-10-30 17:59 G	39873134.19	39873134.25	39873134.33	0.0088	0.0075
Mercury	104457-01-26 19:25 G	39873222.27	39873222.31	39873222.36	0.0088	0.0081

Mercury	104457-04-24 20:52 G	39873310.37	39873310.37	39873310.37	0.0088	0.0088
Earth	104471-05-06 20:09 G	39878435.26	39878435.34	39878435.44	0.0088	0.0082
Moon	104471-05-06 20:09 G	39878435.29	39878435.34	39878435.45	0.0088	0.0083 *
Moon	104472-05-08 05:30 G	39878802.57	39878802.73	39878802.95	0.0088	0.0063
Earth	104472-05-08 07:40 G	39878802.66	39878802.82	39878803.02	0.0088	0.0063 *
Venus	104472-07-31 21:21 G	39878887.36	39878887.39	39878887.45	0.0088	0.0086
Venus	104473-03-14 10:47 G	39879112.86	39879112.95	39879113.09	0.0088	0.0076
Earth	104473-05-10 19:40 G	39879170.10	39879170.32	39879170.56	0.0088	0.0043
Moon	104473-05-10 22:33 G	39879170.24	39879170.44	39879170.68	0.0088	0.0044 *
Venus	104473-10-26 00:13 G	39879338.39	39879338.51	39879338.69	0.0088	0.0066
Moon	104474-05-13 04:18 G	39879537.43	39879537.68	39879537.94	0.0088	0.0023
Earth	104474-05-13 07:40 G	39879537.57	39879537.82	39879538.08	0.0088	0.0023 *
Venus	104474-06-08 14:09 G	39879563.92	39879564.09	39879564.27	0.0088	0.0055
Venus	104475-01-20 03:35 G	39879789.47	39879789.65	39879789.85	0.0088	0.0045
Earth	104475-05-15 19:25 G	39879905.06	39879905.31	39879905.58	0.0088	0.0004
Moon	104475-05-15 23:16 G	39879905.21	39879905.47	39879905.74	0.0088	0.0004 *
Venus	104475-09-02 17:01 G	39880015.02	39880015.21	39880015.43	0.0088	0.0035
Venus	104476-04-15 06:42 G	39880240.57	39880240.78	39880241.00	0.0088	0.0024
Moon	104476-05-17 04:18 G	39880272.44	39880272.68	39880272.94	0.0088	0.0018
Earth	104476-05-17 07:25 G	39880272.56	39880272.81	39880273.07	0.0088	0.0017 *
Venus	104476-11-26 20:23 G	39880466.13	39880466.35	39880466.57	0.0088	0.0014
Earth	104477-05-19 18:57 G	39880640.07	39880640.29	39880640.54	0.0088	0.0037
Moon	104477-05-19 21:49 G	39880640.17	39880640.41	39880640.66	0.0088	0.0037 *
Venus	104477-07-10 09:49 G	39880691.68	39880691.91	39880692.13	0.0088	0.0004
Venus	104478-02-20 23:16 G	39880917.25	39880917.47	39880917.70	0.0088	0.0007
Moon	104478-05-22 05:16 G	39881007.55	39881007.72	39881007.93	0.0088	0.0057
Earth	104478-05-22 06:28 G	39881007.60	39881007.77	39881008.00	0.0088	0.0057 *
Venus	104478-10-04 12:42 G	39881142.81	39881143.03	39881143.26	0.0088	0.0017
Venus	104479-05-18 01:54 G	39881368.38	39881368.58	39881368.81	0.0088	0.0028
Moon	104479-05-24 17:45 G	39881375.14	39881375.24	39881375.41	0.0088	0.0076

Earth	104479-05-24 18:42 G	39881375.17	39881375.28	39881375.42	0.0088	0.0076	*
Venus	104479-12-29 15:21 G	39881593.95	39881594.14	39881594.36	0.0088	0.0038	
Venus	104480-08-11 04:47 G	39881819.53	39881819.70	39881819.90	0.0088	0.0048	
Venus	104481-03-24 18:28 G	39882045.11	39882045.27	39882045.45	0.0088	0.0058	
Venus	104481-11-05 08:09 G	39882270.70	39882270.84	39882270.98	0.0088	0.0068	
Venus	104482-06-18 21:06 G	39882496.30	39882496.38	39882496.50	0.0088	0.0079	
Mars	104510-04-04 00:42 G	39892646.22	39892646.53	39892646.88	0.0089	0.0023	
Mars	104512-02-29 01:11 G	39893342.54	39893342.55	39893342.65	0.0089	0.0088	
Mercury	104535-03-21 06:28 G	39901763.74	39901763.77	39901763.84	0.0090	0.0087	
Mercury	104535-06-17 10:33 G	39901851.84	39901851.94	39901852.05	0.0090	0.0076	
Mercury	104535-09-13 13:54 G	39901939.97	39901940.08	39901940.24	0.0090	0.0066	
Mercury	104535-12-10 17:59 G	39902028.11	39902028.25	39902028.41	0.0090	0.0055	
Mercury	104536-03-07 22:04 G	39902116.25	39902116.42	39902116.59	0.0090	0.0044	
Mercury	104536-06-04 01:25 G	39902204.39	39902204.56	39902204.76	0.0090	0.0034	
Mercury	104536-08-31 05:30 G	39902292.54	39902292.73	39902292.92	0.0090	0.0023	
Mercury	104536-11-27 09:21 G	39902380.70	39902380.89	39902381.09	0.0090	0.0012	
Mercury	104537-02-23 13:11 G	39902468.85	39902469.05	39902469.25	0.0090	0.0001	
Mercury	104537-05-22 16:47 G	39902557.01	39902557.20	39902557.40	0.0090	0.0010	
Mercury	104537-08-18 20:37 G	39902645.17	39902645.36	39902645.56	0.0090	0.0020	
Mercury	104537-11-15 00:28 G	39902733.34	39902733.52	39902733.71	0.0090	0.0031	
Mercury	104538-02-11 04:04 G	39902821.51	39902821.67	39902821.86	0.0090	0.0042	
Mercury	104538-05-10 07:40 G	39902909.68	39902909.82	39902910.00	0.0090	0.0053	
Mercury	104538-08-06 11:59 G	39902997.86	39902998.00	39902998.14	0.0090	0.0063	
Mercury	104538-11-02 15:35 G	39903086.05	39903086.15	39903086.27	0.0090	0.0074	
Mercury	104539-01-29 19:11 G	39903174.26	39903174.30	39903174.38	0.0090	0.0085	
Moon	104553-11-08 17:01 G	39908571.10	39908571.21	39908571.35	0.0090	0.0077	
Earth	104553-11-08 19:40 G	39908571.21	39908571.32	39908571.49	0.0090	0.0074	*
Venus	104554-09-19 04:33 G	39908885.64	39908885.69	39908885.80	0.0090	0.0083	
Earth	104554-11-11 07:25 G	39908938.62	39908938.81	39908939.03	0.0090	0.0053	
Moon	104554-11-11 09:06 G	39908938.68	39908938.88	39908939.11	0.0090	0.0050	*

Venus	104555-05-02 17:30 G	39909111.12	39909111.23	39909111.37	0.0090	0.0072
Moon	104555-11-13 18:42 G	39909306.05	39909306.28	39909306.51	0.0090	0.0035
Earth	104555-11-13 19:25 G	39909306.07	39909306.31	39909306.55	0.0090	0.0032 *
Venus	104555-12-14 05:59 G	39909336.61	39909336.75	39909336.92	0.0090	0.0062
Venus	104556-07-26 18:57 G	39909562.11	39909562.29	39909562.46	0.0090	0.0051
Moon	104556-11-15 05:59 G	39909673.50	39909673.75	39909674.02	0.0090	0.0009
Earth	104556-11-15 06:42 G	39909673.54	39909673.78	39909674.04	0.0090	0.0012 *
Venus	104557-03-09 07:11 G	39909787.62	39909787.80	39909788.00	0.0090	0.0041
Venus	104557-10-20 19:40 G	39910013.13	39910013.32	39910013.53	0.0090	0.0031
Earth	104557-11-17 18:13 G	39910041.01	39910041.26	39910041.52	0.0090	0.0010
Moon	104557-11-17 20:37 G	39910041.11	39910041.36	39910041.61	0.0090	0.0007 *
Venus	104558-06-03 08:23 G	39910238.64	39910238.85	39910239.06	0.0090	0.0020
Moon	104558-11-20 02:52 G	39910408.39	39910408.62	39910408.87	0.0090	0.0033
Earth	104558-11-20 05:45 G	39910408.51	39910408.74	39910408.99	0.0090	0.0030 *
Venus	104559-01-14 20:52 G	39910464.16	39910464.37	39910464.59	0.0090	0.0009
Venus	104559-08-28 09:35 G	39910689.69	39910689.90	39910690.12	0.0090	0.0001
Earth	104559-11-22 16:33 G	39910776.00	39910776.19	39910776.42	0.0090	0.0051
Moon	104559-11-22 20:09 G	39910776.15	39910776.34	39910776.58	0.0090	0.0048 *
Venus	104560-04-09 22:04 G	39910915.21	39910915.42	39910915.64	0.0090	0.0012
Venus	104560-11-21 10:18 G	39911140.73	39911140.93	39911141.15	0.0090	0.0023
Moon	104560-11-24 00:42 G	39911143.41	39911143.53	39911143.70	0.0090	0.0074
Earth	104560-11-24 04:33 G	39911143.54	39911143.69	39911143.85	0.0090	0.0071 *
Venus	104561-07-04 23:01 G	39911366.26	39911366.46	39911366.66	0.0090	0.0033
Moon	104561-11-26 18:57 G	39911511.26	39911511.29	39911511.35	0.0090	0.0088
Venus	104562-02-15 11:16 G	39911591.80	39911591.97	39911592.17	0.0090	0.0044
Venus	104562-09-28 23:59 G	39911817.34	39911817.50	39911817.69	0.0090	0.0054
Venus	104563-05-12 12:42 G	39912042.89	39912043.03	39912043.19	0.0090	0.0064
Venus	104563-12-24 00:57 G	39912268.44	39912268.54	39912268.68	0.0090	0.0075
Venus	104564-08-05 13:40 G	39912494.02	39912494.07	39912494.15	0.0090	0.0085
Mars	104590-01-30 13:11 G	39921802.90	39921803.05	39921803.25	0.0089	0.0071

Mars	104591-12-25 05:01 G	39922496.44	39922496.71	39922497.00	0.0089	0.0023
Mercury	104615-10-16 11:45 G	39931191.96	39931191.99	39931192.02	0.0088	0.0085
Mercury	104616-01-12 12:42 G	39931279.99	39931280.03	39931280.10	0.0088	0.0079
Mercury	104616-04-09 14:09 G	39931368.02	39931368.09	39931368.17	0.0088	0.0072
Mercury	104616-07-06 15:21 G	39931456.06	39931456.14	39931456.24	0.0088	0.0065
Mercury	104616-10-02 16:47 G	39931544.11	39931544.20	39931544.30	0.0088	0.0058
Mercury	104616-12-29 17:59 G	39931632.15	39931632.25	39931632.36	0.0088	0.0051
Mercury	104617-03-27 19:25 G	39931720.20	39931720.31	39931720.42	0.0088	0.0044
Mercury	104617-06-23 20:37 G	39931808.24	39931808.36	39931808.48	0.0088	0.0038
Mercury	104617-09-19 21:49 G	39931896.29	39931896.41	39931896.54	0.0088	0.0031
Mercury	104617-12-16 23:16 G	39931984.34	39931984.47	39931984.59	0.0088	0.0024
Mercury	104618-03-15 00:28 G	39932072.39	39932072.52	39932072.65	0.0088	0.0017
Mercury	104618-06-11 01:40 G	39932160.44	39932160.57	39932160.70	0.0088	0.0011
Mercury	104618-09-07 02:52 G	39932248.49	39932248.62	39932248.76	0.0088	0.0005
Mercury	104618-12-04 04:18 G	39932336.54	39932336.68	39932336.81	0.0088	0.0004
Mercury	104619-03-02 05:30 G	39932424.60	39932424.73	39932424.86	0.0088	0.0010
Mercury	104619-05-29 06:42 G	39932512.65	39932512.78	39932512.91	0.0088	0.0017
Mercury	104619-08-25 07:54 G	39932600.71	39932600.83	39932600.96	0.0088	0.0023
Mercury	104619-11-21 09:21 G	39932688.76	39932688.89	39932689.01	0.0088	0.0030
Mercury	104620-02-17 10:18 G	39932776.82	39932776.93	39932777.06	0.0088	0.0037
Mercury	104620-05-15 11:30 G	39932864.88	39932864.98	39932865.10	0.0088	0.0044
Mercury	104620-08-11 12:57 G	39932952.94	39932953.04	39932953.15	0.0088	0.0050
Mercury	104620-11-07 14:09 G	39933041.00	39933041.09	39933041.19	0.0088	0.0057
Mercury	104621-02-03 15:21 G	39933129.06	39933129.14	39933129.24	0.0088	0.0064
Mercury	104621-05-02 16:47 G	39933217.12	39933217.20	39933217.28	0.0088	0.0070
Mercury	104621-07-29 17:45 G	39933305.19	39933305.24	39933305.31	0.0088	0.0077
Mercury	104621-10-25 18:57 G	39933393.27	39933393.29	39933393.34	0.0088	0.0084
Moon	104636-05-09 12:57 G	39938702.88	39938703.04	39938703.20	0.0088	0.0068
Earth	104636-05-09 15:21 G	39938703.01	39938703.14	39938703.33	0.0088	0.0070 *
Earth	104637-05-12 03:21 G	39939070.44	39939070.64	39939070.87	0.0088	0.0050

Moon	104637-05-12 05:30 G	39939070.53	39939070.73	39939070.96	0.0088	0.0052	*
Venus	104637-06-17 20:09 G	39939107.25	39939107.34	39939107.45	0.0088	0.0078	
Venus	104638-01-29 09:35 G	39939332.77	39939332.90	39939333.06	0.0088	0.0068	
Moon	104638-05-14 13:54 G	39939437.85	39939438.08	39939438.33	0.0088	0.0028	
Earth	104638-05-14 15:21 G	39939437.90	39939438.14	39939438.39	0.0088	0.0030	*
Venus	104638-09-11 23:01 G	39939558.31	39939558.46	39939558.65	0.0088	0.0058	
Venus	104639-04-25 12:28 G	39939783.85	39939784.02	39939784.23	0.0088	0.0048	
Moon	104639-05-17 02:23 G	39939805.34	39939805.60	39939805.88	0.0088	0.0012	
Earth	104639-05-17 03:06 G	39939805.37	39939805.63	39939805.89	0.0088	0.0010	*
Venus	104639-12-07 02:23 G	39940009.39	39940009.60	39940009.80	0.0088	0.0037	
Earth	104640-05-18 14:52 G	39940172.87	39940173.12	39940173.39	0.0088	0.0010	
Moon	104640-05-18 16:18 G	39940172.94	39940173.18	39940173.44	0.0088	0.0012	*
Venus	104640-07-19 15:49 G	39940234.95	39940235.16	39940235.37	0.0088	0.0027	
Venus	104641-03-02 05:16 G	39940460.51	39940460.72	39940460.95	0.0088	0.0017	
Moon	104641-05-20 23:59 G	39940540.26	39940540.50	39940540.77	0.0088	0.0028	
Earth	104641-05-21 02:37 G	39940540.37	39940540.61	39940540.86	0.0088	0.0030	*
Venus	104641-10-13 18:57 G	39940686.06	39940686.29	39940686.51	0.0088	0.0006	
Earth	104642-05-23 14:09 G	39940907.90	39940908.09	39940908.33	0.0088	0.0050	
Moon	104642-05-23 18:13 G	39940908.05	39940908.26	39940908.47	0.0088	0.0051	*
Venus	104642-05-27 08:23 G	39940911.62	39940911.85	39940912.07	0.0088	0.0004	
Venus	104643-01-07 21:35 G	39941137.19	39941137.40	39941137.63	0.0088	0.0015	
Moon	104643-05-25 22:47 G	39941275.30	39941275.45	39941275.63	0.0088	0.0068	
Earth	104643-05-26 01:54 G	39941275.45	39941275.58	39941275.77	0.0088	0.0070	*
Venus	104643-08-21 11:01 G	39941362.76	39941362.96	39941363.19	0.0088	0.0025	
Venus	104644-04-03 00:42 G	39941588.33	39941588.53	39941588.75	0.0088	0.0035	
Venus	104644-11-14 14:09 G	39941813.91	39941814.09	39941814.29	0.0088	0.0045	
Venus	104645-06-28 03:49 G	39942039.48	39942039.66	39942039.83	0.0088	0.0055	
Venus	104646-02-08 16:47 G	39942265.07	39942265.20	39942265.37	0.0088	0.0066	
Venus	104646-09-22 06:13 G	39942490.67	39942490.76	39942490.90	0.0088	0.0076	
Venus	104647-05-05 19:54 G	39942716.30	39942716.33	39942716.39	0.0088	0.0086	

Mars	104673-11-16 10:33 G	39952407.73	39952407.94	39952408.21	0.0089	0.0063
Mars	104675-10-13 14:09 G	39953103.83	39953104.09	39953104.39	0.0089	0.0048
Mercury	104699-12-17 04:47 G	39961934.63	39961934.70	39961934.77	0.0090	0.0083
Mercury	104700-03-15 08:09 G	39962022.75	39962022.84	39962022.97	0.0090	0.0073
Mercury	104700-06-11 12:13 G	39962110.87	39962111.01	39962111.16	0.0090	0.0062
Mercury	104700-09-07 15:49 G	39962199.01	39962199.16	39962199.33	0.0090	0.0052
Mercury	104700-12-04 19:40 G	39962287.15	39962287.32	39962287.50	0.0090	0.0041
Mercury	104701-03-02 23:16 G	39962375.30	39962375.47	39962375.67	0.0090	0.0031
Mercury	104701-05-30 03:21 G	39962463.45	39962463.64	39962463.83	0.0090	0.0020
Mercury	104701-08-26 07:11 G	39962551.60	39962551.80	39962552.00	0.0090	0.0009
Mercury	104701-11-22 11:01 G	39962639.76	39962639.96	39962640.15	0.0090	0.0002
Mercury	104702-02-18 14:37 G	39962727.92	39962728.11	39962728.31	0.0090	0.0013
Mercury	104702-05-17 18:13 G	39962816.08	39962816.26	39962816.46	0.0090	0.0024
Mercury	104702-08-13 22:18 G	39962904.25	39962904.43	39962904.61	0.0090	0.0034
Mercury	104702-11-10 01:54 G	39962992.42	39962992.58	39962992.76	0.0090	0.0045
Mercury	104703-02-06 05:30 G	39963080.60	39963080.73	39963080.90	0.0090	0.0056
Mercury	104703-05-05 09:35 G	39963168.78	39963168.90	39963169.04	0.0090	0.0066
Mercury	104703-08-01 13:11 G	39963256.97	39963257.05	39963257.17	0.0090	0.0077
Mercury	104703-10-28 17:01 G	39963345.19	39963345.21	39963345.26	0.0090	0.0088
Earth	104717-11-10 02:52 G	39968471.54	39968471.62	39968471.75	0.0090	0.0082
Moon	104717-11-10 05:16 G	39968471.62	39968471.72	39968471.87	0.0090	0.0078 *
Moon	104718-11-12 11:59 G	39968838.84	39968839.00	39968839.20	0.0090	0.0065
Earth	104718-11-12 14:52 G	39968838.96	39968839.12	39968839.33	0.0090	0.0061 *
Venus	104718-12-23 14:52 G	39968880.08	39968880.12	39968880.20	0.0090	0.0086
Venus	104719-08-06 03:49 G	39969105.55	39969105.66	39969105.79	0.0090	0.0075
Earth	104719-11-15 02:52 G	39969206.40	39969206.62	39969206.85	0.0090	0.0040
Moon	104719-11-15 06:28 G	39969206.54	39969206.77	39969207.00	0.0090	0.0035 *
Venus	104720-03-18 16:18 G	39969331.05	39969331.18	39969331.34	0.0090	0.0065
Venus	104720-10-30 05:01 G	39969556.55	39969556.71	39969556.89	0.0090	0.0054
Moon	104720-11-16 11:16 G	39969573.73	39969573.97	39969574.22	0.0090	0.0023



Earth	104720-11-16 14:37 G	39969573.87	39969574.11	39969574.36	0.0090	0.0019	*
Venus	104721-06-12 17:30 G	39969782.05	39969782.23	39969782.43	0.0090	0.0044	
Earth	104721-11-19 02:09 G	39969941.34	39969941.59	39969941.85	0.0090	0.0002	
Moon	104721-11-19 05:16 G	39969941.46	39969941.72	39969941.98	0.0090	0.0006	*
Venus	104722-01-24 06:13 G	39970007.56	39970007.76	39970007.96	0.0090	0.0033	
Venus	104722-09-06 18:42 G	39970233.08	39970233.28	39970233.50	0.0090	0.0023	
Moon	104722-11-21 11:16 G	39970308.73	39970308.97	39970309.22	0.0090	0.0018	
Earth	104722-11-21 13:25 G	39970308.83	39970309.06	39970309.32	0.0090	0.0023	*
Venus	104723-04-20 07:25 G	39970458.60	39970458.81	39970459.03	0.0090	0.0012	
Earth	104723-11-24 00:57 G	39970676.33	39970676.54	39970676.77	0.0090	0.0043	
Moon	104723-11-24 01:40 G	39970676.35	39970676.57	39970676.80	0.0090	0.0047	*
Venus	104723-12-01 19:54 G	39970684.12	39970684.33	39970684.55	0.0090	0.0002	
Venus	104724-07-14 08:23 G	39970909.64	39970909.85	39970910.07	0.0090	0.0009	
Earth	104724-11-25 12:13 G	39971043.85	39971044.01	39971044.21	0.0090	0.0064	
Moon	104724-11-25 12:57 G	39971043.87	39971044.04	39971044.23	0.0090	0.0060	*
Venus	104725-02-24 20:52 G	39971135.17	39971135.37	39971135.59	0.0090	0.0019	
Venus	104725-10-08 09:35 G	39971360.70	39971360.90	39971361.10	0.0090	0.0030	
Moon	104725-11-27 21:49 G	39971411.40	39971411.41	39971411.48	0.0090	0.0089	
Earth	104725-11-27 23:59 G	39971411.42	39971411.50	39971411.59	0.0090	0.0084	*
Venus	104726-05-21 21:49 G	39971586.23	39971586.41	39971586.62	0.0090	0.0041	
Venus	104727-01-02 10:18 G	39971811.77	39971811.93	39971812.12	0.0090	0.0051	
Venus	104727-08-15 22:47 G	39972037.31	39972037.45	39972037.63	0.0090	0.0062	
Venus	104728-03-28 11:30 G	39972262.87	39972262.98	39972263.12	0.0090	0.0072	
Venus	104728-11-09 00:13 G	39972488.43	39972488.51	39972488.60	0.0090	0.0082	
Mars	104755-08-11 15:21 G	39982259.86	39982260.14	39982260.43	0.0089	0.0011	
Mars	104757-07-05 06:42 G	39982953.70	39982953.78	39982953.91	0.0089	0.0083	
Mercury	104780-07-13 11:01 G	39991362.93	39991362.96	39991363.01	0.0088	0.0083	
Mercury	104780-10-09 12:28 G	39991450.96	39991451.02	39991451.09	0.0088	0.0076	
Mercury	104781-01-05 13:54 G	39991539.00	39991539.08	39991539.16	0.0088	0.0069	
Mercury	104781-04-03 14:52 G	39991627.04	39991627.12	39991627.22	0.0088	0.0063	

Mercury	104781-06-30 16:18 G	39991715.08	39991715.18	39991715.29	0.0088	0.0056
Mercury	104781-09-26 17:30 G	39991803.13	39991803.23	39991803.35	0.0088	0.0049
Mercury	104781-12-23 18:57 G	39991891.18	39991891.29	39991891.41	0.0088	0.0042
Mercury	104782-03-21 20:09 G	39991979.22	39991979.34	39991979.46	0.0088	0.0035
Mercury	104782-06-17 21:21 G	39992067.27	39992067.39	39992067.52	0.0088	0.0029
Mercury	104782-09-13 22:47 G	39992155.32	39992155.45	39992155.58	0.0088	0.0022
Mercury	104782-12-10 23:59 G	39992243.37	39992243.50	39992243.63	0.0088	0.0015
Mercury	104783-03-09 01:11 G	39992331.42	39992331.55	39992331.69	0.0088	0.0009
Mercury	104783-06-05 02:37 G	39992419.47	39992419.61	39992419.74	0.0088	0.0003
Mercury	104783-09-01 03:49 G	39992507.53	39992507.66	39992507.79	0.0088	0.0005
Mercury	104783-11-28 05:01 G	39992595.58	39992595.71	39992595.84	0.0088	0.0012
Mercury	104784-02-24 06:13 G	39992683.63	39992683.76	39992683.89	0.0088	0.0019
Mercury	104784-05-22 07:25 G	39992771.69	39992771.81	39992771.94	0.0088	0.0026
Mercury	104784-08-18 08:37 G	39992859.75	39992859.86	39992859.99	0.0088	0.0033
Mercury	104784-11-14 10:04 G	39992947.80	39992947.92	39992948.04	0.0088	0.0039
Mercury	104785-02-10 11:16 G	39993035.86	39993035.97	39993036.08	0.0088	0.0046
Mercury	104785-05-09 12:13 G	39993123.92	39993124.01	39993124.13	0.0088	0.0053
Mercury	104785-08-05 13:40 G	39993211.98	39993212.07	39993212.17	0.0088	0.0059
Mercury	104785-11-01 14:52 G	39993300.04	39993300.12	39993300.21	0.0088	0.0066
Mercury	104786-01-28 16:04 G	39993388.11	39993388.17	39993388.25	0.0088	0.0073
Mercury	104786-04-26 17:30 G	39993476.18	39993476.23	39993476.29	0.0088	0.0079
Mercury	104786-07-23 18:28 G	39993564.26	39993564.27	39993564.31	0.0088	0.0086
Earth	104800-05-09 23:01 G	39998603.37	39998603.46	39998603.62	0.0088	0.0077
Moon	104800-05-10 00:57 G	39998603.46	39998603.54	39998603.68	0.0088	0.0080 *
Moon	104801-05-12 08:37 G	39998970.66	39998970.86	39998971.08	0.0088	0.0053
Earth	104801-05-12 11:01 G	39998970.78	39998970.96	39998971.17	0.0088	0.0057 *
Venus	104801-09-20 05:01 G	39999101.65	39999101.71	39999101.82	0.0088	0.0081
Venus	104802-05-03 18:28 G	39999327.16	39999327.27	39999327.43	0.0088	0.0071
Earth	104802-05-14 22:47 G	39999338.22	39999338.45	39999338.69	0.0088	0.0037
Moon	104802-05-15 02:09 G	39999338.38	39999338.59	39999338.84	0.0088	0.0041 *

Venus	104802-12-15 08:23 G	39999552.69	39999552.85	39999553.01	0.0088	0.0060
Moon	104803-05-17 06:57 G	39999705.55	39999705.79	39999706.06	0.0088	0.0015
Earth	104803-05-17 10:33 G	39999705.69	39999705.94	39999706.21	0.0088	0.0017 *
Venus	104803-07-28 21:35 G	39999778.23	39999778.40	39999778.60	0.0088	0.0050
Venus	104804-03-10 11:16 G	40000003.78	40000003.97	40000004.18	0.0088	0.0040
Earth	104804-05-18 22:18 G	40000073.17	40000073.43	40000073.69	0.0088	0.0003
Moon	104804-05-19 01:54 G	40000073.31	40000073.58	40000073.84	0.0088	0.0001 *
Venus	104804-10-22 00:42 G	40000229.33	40000229.53	40000229.75	0.0088	0.0030
Moon	104805-05-21 07:25 G	40000440.58	40000440.81	40000441.07	0.0088	0.0027
Earth	104805-05-21 10:04 G	40000440.68	40000440.92	40000441.18	0.0088	0.0023 *
Venus	104805-06-04 14:09 G	40000454.88	40000455.09	40000455.32	0.0088	0.0019
Venus	104806-01-16 03:49 G	40000680.44	40000680.66	40000680.88	0.0088	0.0009
Earth	104806-05-23 21:49 G	40000808.20	40000808.41	40000808.65	0.0088	0.0043
Moon	104806-05-23 23:01 G	40000808.24	40000808.46	40000808.72	0.0088	0.0040 *
Venus	104806-08-29 17:16 G	40000906.00	40000906.22	40000906.45	0.0088	0.0002
Venus	104807-04-12 06:42 G	40001131.57	40001131.78	40001132.01	0.0088	0.0012
Moon	104807-05-26 08:52 G	40001175.73	40001175.87	40001176.06	0.0088	0.0067
Earth	104807-05-26 09:21 G	40001175.73	40001175.89	40001176.10	0.0088	0.0063 *
Venus	104807-11-23 20:23 G	40001357.13	40001357.35	40001357.57	0.0088	0.0022
Moon	104808-05-27 19:54 G	40001543.24	40001543.33	40001543.47	0.0088	0.0079
Earth	104808-05-27 21:06 G	40001543.33	40001543.38	40001543.50	0.0088	0.0083 *
Venus	104808-07-06 09:49 G	40001582.70	40001582.91	40001583.12	0.0088	0.0032
Venus	104809-02-16 23:01 G	40001808.28	40001808.46	40001808.67	0.0088	0.0043
Venus	104809-09-30 12:28 G	40002033.86	40002034.02	40002034.22	0.0088	0.0053
Venus	104810-05-14 01:54 G	40002259.44	40002259.58	40002259.75	0.0088	0.0063
Venus	104810-12-25 15:21 G	40002485.03	40002485.14	40002485.28	0.0088	0.0073
Venus	104811-08-08 05:01 G	40002710.65	40002710.71	40002710.79	0.0088	0.0083
Jupiter	104831-07-20 04:47 G	40009996.34	40009996.70	40009997.16	0.0088	0.0061
Mars	104839-05-28 00:13 G	40012865.18	40012865.51	40012865.86	0.0089	0.0007
Mercury	104864-09-13 02:09 G	40022105.52	40022105.59	40022105.68	0.0090	0.0081

Mercury	104864-12-10 05:30 G	40022193.64	40022193.73	40022193.88	0.0090	0.0071
Mercury	104865-03-08 09:35 G	40022281.77	40022281.90	40022282.06	0.0090	0.0060
Mercury	104865-06-04 13:40 G	40022369.90	40022370.07	40022370.23	0.0090	0.0049
Mercury	104865-08-31 17:01 G	40022458.05	40022458.21	40022458.40	0.0090	0.0039
Mercury	104865-11-27 21:06 G	40022546.20	40022546.38	40022546.57	0.0090	0.0028
Mercury	104866-02-24 00:42 G	40022634.35	40022634.53	40022634.73	0.0090	0.0018
Mercury	104866-05-23 04:33 G	40022722.50	40022722.69	40022722.89	0.0090	0.0007
Mercury	104866-08-19 08:23 G	40022810.66	40022810.85	40022811.05	0.0090	0.0004
Mercury	104866-11-15 12:13 G	40022898.82	40022899.01	40022899.20	0.0090	0.0015
Mercury	104867-02-11 15:49 G	40022986.98	40022987.16	40022987.36	0.0090	0.0026
Mercury	104867-05-10 19:25 G	40023075.15	40023075.31	40023075.51	0.0090	0.0037
Mercury	104867-08-06 23:30 G	40023163.32	40023163.48	40023163.65	0.0090	0.0047
Mercury	104867-11-03 03:06 G	40023251.49	40023251.63	40023251.79	0.0090	0.0058
Mercury	104868-01-30 06:42 G	40023339.68	40023339.78	40023339.93	0.0090	0.0069
Mercury	104868-04-27 11:01 G	40023427.87	40023427.96	40023428.05	0.0090	0.0079
Earth	104881-11-09 09:49 G	40028371.91	40028371.91	40028371.95	0.0090	0.0090
Moon	104882-11-11 19:54 G	40028739.16	40028739.33	40028739.50	0.0090	0.0064
Earth	104882-11-11 21:49 G	40028739.26	40028739.41	40028739.59	0.0090	0.0069 *
Venus	104883-03-27 00:42 G	40028874.52	40028874.53	40028874.59	0.0090	0.0089
Venus	104883-11-07 13:40 G	40029099.97	40029100.07	40029100.18	0.0090	0.0078
Earth	104883-11-14 09:49 G	40029106.70	40029106.91	40029107.13	0.0090	0.0048
Moon	104883-11-14 10:04 G	40029106.73	40029106.92	40029107.16	0.0090	0.0053 *
Venus	104884-06-20 01:54 G	40029325.46	40029325.58	40029325.74	0.0090	0.0068
Earth	104884-11-15 21:49 G	40029474.17	40029474.41	40029474.65	0.0090	0.0027
Moon	104884-11-15 22:18 G	40029474.20	40029474.43	40029474.67	0.0090	0.0023 *
Venus	104885-01-31 15:06 G	40029550.96	40029551.13	40029551.29	0.0090	0.0057
Venus	104885-09-14 03:35 G	40029776.47	40029776.65	40029776.84	0.0090	0.0047
Moon	104885-11-18 07:40 G	40029841.56	40029841.82	40029842.08	0.0090	0.0011
Earth	104885-11-18 09:21 G	40029841.63	40029841.89	40029842.14	0.0090	0.0006 *
Venus	104886-04-27 16:04 G	40030001.99	40030002.17	40030002.38	0.0090	0.0037

Earth	104886-11-20 20:37 G	40030209.12	40030209.36	40030209.62	0.0090	0.0015
Moon	104886-11-20 23:30 G	40030209.25	40030209.48	40030209.73	0.0090	0.0020 *
Venus	104886-12-09 04:47 G	40030227.50	40030227.70	40030227.91	0.0090	0.0026
Venus	104887-07-22 17:16 G	40030453.01	40030453.22	40030453.44	0.0090	0.0015
Moon	104887-11-23 04:47 G	40030576.47	40030576.70	40030576.95	0.0090	0.0031
Earth	104887-11-23 07:54 G	40030576.62	40030576.83	40030577.08	0.0090	0.0036 *
Venus	104888-03-04 05:59 G	40030678.53	40030678.75	40030678.96	0.0090	0.0005
Venus	104888-10-15 18:28 G	40030904.06	40030904.27	40030904.49	0.0090	0.0006
Earth	104888-11-24 19:40 G	40030944.13	40030944.32	40030944.52	0.0090	0.0056
Moon	104888-11-24 23:01 G	40030944.29	40030944.46	40030944.66	0.0090	0.0061 *
Venus	104889-05-29 06:57 G	40031129.58	40031129.79	40031130.00	0.0090	0.0016
Moon	104889-11-27 03:35 G	40031311.52	40031311.65	40031311.82	0.0090	0.0072
Earth	104889-11-27 06:42 G	40031311.67	40031311.78	40031311.93	0.0090	0.0077 *
Venus	104890-01-09 19:11 G	40031355.11	40031355.30	40031355.52	0.0090	0.0027
Venus	104890-08-23 07:54 G	40031580.64	40031580.83	40031581.03	0.0090	0.0037
Venus	104891-04-05 20:09 G	40031806.18	40031806.34	40031806.54	0.0090	0.0048
Venus	104891-11-17 08:52 G	40032031.72	40032031.87	40032032.04	0.0090	0.0058
Venus	104892-06-29 21:06 G	40032257.26	40032257.38	40032257.54	0.0090	0.0069
Venus	104893-02-10 09:35 G	40032482.82	40032482.90	40032483.02	0.0090	0.0079
Venus	104893-09-23 22:33 G	40032708.42	40032708.44	40032708.47	0.0090	0.0089
Mars	104919-03-27 23:45 G	40042023.26	40042023.49	40042023.76	0.0089	0.0045
Mars	104921-02-18 16:18 G	40042716.95	40042717.18	40042717.44	0.0089	0.0049
Mercury	104945-01-12 09:21 G	40051445.89	40051445.89	40051445.91	0.0088	0.0088
Mercury	104945-04-10 10:33 G	40051533.90	40051533.94	40051534.00	0.0088	0.0081
Mercury	104945-07-07 11:59 G	40051621.94	40051622.00	40051622.07	0.0088	0.0074
Mercury	104945-10-03 13:11 G	40051709.97	40051710.05	40051710.14	0.0088	0.0067
Mercury	104945-12-30 14:37 G	40051798.02	40051798.11	40051798.21	0.0088	0.0060
Mercury	104946-03-28 15:35 G	40051886.06	40051886.15	40051886.27	0.0088	0.0054
Mercury	104946-06-24 17:01 G	40051974.11	40051974.21	40051974.33	0.0088	0.0047
Mercury	104946-09-20 18:28 G	40052062.15	40052062.27	40052062.39	0.0088	0.0040

Mercury	104946-12-17 19:40 G	40052150.20	40052150.32	40052150.45	0.0088	0.0033
Mercury	104947-03-15 20:52 G	40052238.25	40052238.37	40052238.50	0.0088	0.0027
Mercury	104947-06-11 22:18 G	40052326.30	40052326.43	40052326.56	0.0088	0.0020
Mercury	104947-09-07 23:30 G	40052414.35	40052414.48	40052414.61	0.0088	0.0013
Mercury	104947-12-05 00:42 G	40052502.40	40052502.53	40052502.67	0.0088	0.0007
Mercury	104948-03-02 02:09 G	40052590.46	40052590.59	40052590.72	0.0088	0.0002
Mercury	104948-05-29 03:21 G	40052678.51	40052678.64	40052678.77	0.0088	0.0007
Mercury	104948-08-25 04:33 G	40052766.56	40052766.69	40052766.82	0.0088	0.0014
Mercury	104948-11-21 05:45 G	40052854.62	40052854.74	40052854.87	0.0088	0.0021
Mercury	104949-02-17 06:57 G	40052942.67	40052942.79	40052942.92	0.0088	0.0028
Mercury	104949-05-16 08:09 G	40053030.73	40053030.84	40053030.97	0.0088	0.0035
Mercury	104949-08-12 09:35 G	40053118.79	40053118.90	40053119.02	0.0088	0.0041
Mercury	104949-11-08 10:47 G	40053206.84	40053206.95	40053207.06	0.0088	0.0048
Mercury	104950-02-04 11:59 G	40053294.90	40053295.00	40053295.11	0.0088	0.0055
Mercury	104950-05-03 13:25 G	40053382.97	40053383.06	40053383.15	0.0088	0.0061
Mercury	104950-07-30 14:23 G	40053471.03	40053471.10	40053471.19	0.0088	0.0068
Mercury	104950-10-26 15:35 G	40053559.09	40053559.15	40053559.23	0.0088	0.0075
Mercury	104951-01-22 17:01 G	40053647.17	40053647.21	40053647.26	0.0088	0.0081
Earth	104964-05-10 06:13 G	40058503.71	40058503.76	40058503.87	0.0088	0.0084
Moon	104964-05-10 09:49 G	40058503.82	40058503.91	40058504.04	0.0088	0.0079 *
Moon	104965-05-12 15:21 G	40058871.01	40058871.14	40058871.33	0.0088	0.0069
Earth	104965-05-12 18:13 G	40058871.10	40058871.26	40058871.45	0.0088	0.0064 *
Venus	104965-12-23 14:09 G	40059096.03	40059096.09	40059096.16	0.0088	0.0083
Earth	104966-05-15 05:30 G	40059238.53	40059238.73	40059238.98	0.0088	0.0045
Moon	104966-05-15 06:57 G	40059238.56	40059238.79	40059239.04	0.0088	0.0040 *
Venus	104966-08-06 03:21 G	40059321.53	40059321.64	40059321.77	0.0088	0.0073
Venus	104967-03-19 16:47 G	40059547.06	40059547.20	40059547.37	0.0088	0.0063
Earth	104967-05-17 17:16 G	40059605.98	40059606.22	40059606.48	0.0088	0.0025
Moon	104967-05-17 17:01 G	40059605.99	40059606.21	40059606.46	0.0088	0.0029 *
Venus	104967-10-31 06:13 G	40059772.59	40059772.76	40059772.95	0.0088	0.0053

Moon	104968-05-19 03:49 G	40059973.39	40059973.66	40059973.93	0.0088	0.0000
Earth	104968-05-19 05:16 G	40059973.46	40059973.72	40059973.98	0.0088	0.0005 *
Venus	104968-06-12 19:40 G	40059998.13	40059998.32	40059998.53	0.0088	0.0043
Venus	104969-01-24 09:06 G	40060223.68	40060223.88	40060224.10	0.0088	0.0032
Earth	104969-05-21 16:47 G	40060340.95	40060341.20	40060341.46	0.0088	0.0016
Moon	104969-05-21 19:25 G	40060341.06	40060341.31	40060341.57	0.0088	0.0012 *
Venus	104969-09-06 22:33 G	40060449.23	40060449.44	40060449.67	0.0088	0.0022
Venus	104970-04-20 12:13 G	40060674.79	40060675.01	40060675.24	0.0088	0.0012
Moon	104970-05-24 01:11 G	40060708.33	40060708.55	40060708.80	0.0088	0.0040
Earth	104970-05-24 04:18 G	40060708.46	40060708.68	40060708.93	0.0088	0.0036 *
Venus	104970-12-02 01:40 G	40060900.35	40060900.57	40060900.80	0.0088	0.0002
Earth	104971-05-26 15:49 G	40061075.99	40061076.16	40061076.39	0.0088	0.0056
Moon	104971-05-26 19:54 G	40061076.13	40061076.33	40061076.56	0.0088	0.0051 *
Venus	104971-07-15 15:06 G	40061125.91	40061126.13	40061126.36	0.0088	0.0009
Venus	104972-02-26 04:47 G	40061351.48	40061351.70	40061351.92	0.0088	0.0019
Moon	104972-05-28 00:28 G	40061443.44	40061443.52	40061443.65	0.0088	0.0080
Earth	104972-05-28 04:18 G	40061443.55	40061443.68	40061443.82	0.0088	0.0075 *
Venus	104972-10-08 17:59 G	40061577.05	40061577.25	40061577.48	0.0088	0.0030
Venus	104973-05-22 07:25 G	40061802.63	40061802.81	40061803.03	0.0088	0.0040
Venus	104974-01-02 21:06 G	40062028.20	40062028.38	40062028.57	0.0088	0.0050
Venus	104974-08-16 10:33 G	40062253.79	40062253.94	40062254.12	0.0088	0.0060
Venus	104975-03-30 00:13 G	40062479.39	40062479.51	40062479.65	0.0088	0.0070
Venus	104975-11-10 13:54 G	40062704.99	40062705.08	40062705.17	0.0088	0.0080
Jupiter	104997-09-19 06:28 G	40070688.29	40070688.77	40070689.29	0.0088	0.0042

# 106TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 106th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	105003-01-10 07:11	G	40072626.49	40072626.80	40072627.12	0.0089	0.0034	
Mars	105004-12-06 10:47	G	40073322.81	40073322.95	40073323.15	0.0089	0.0076	
Mercury	105029-03-15 19:54	G	40082188.32	40082188.33	40082188.36	0.0090	0.0089	
Mercury	105029-06-11 23:16	G	40082276.40	40082276.47	40082276.58	0.0090	0.0079	
Mercury	105029-09-08 03:21	G	40082364.52	40082364.64	40082364.77	0.0090	0.0068	
Mercury	105029-12-05 06:57	G	40082452.65	40082452.79	40082452.95	0.0090	0.0058	
Mercury	105030-03-03 11:01	G	40082540.79	40082540.96	40082541.12	0.0090	0.0047	
Mercury	105030-05-30 14:23	G	40082628.94	40082629.10	40082629.29	0.0090	0.0037	
Mercury	105030-08-26 18:28	G	40082717.08	40082717.27	40082717.46	0.0090	0.0026	
Mercury	105030-11-22 22:04	G	40082805.23	40082805.42	40082805.62	0.0090	0.0015	
Mercury	105031-02-19 01:54	G	40082893.39	40082893.58	40082893.78	0.0090	0.0005	
Mercury	105031-05-18 05:45	G	40082981.54	40082981.74	40082981.94	0.0090	0.0006	
Mercury	105031-08-14 09:21	G	40083069.70	40083069.89	40083070.09	0.0090	0.0017	
Mercury	105031-11-10 12:57	G	40083157.87	40083158.04	40083158.24	0.0090	0.0028	
Mercury	105032-02-06 17:01	G	40083246.03	40083246.21	40083246.39	0.0090	0.0038	
Mercury	105032-05-04 20:37	G	40083334.21	40083334.36	40083334.53	0.0090	0.0049	
Mercury	105032-08-01 00:13	G	40083422.38	40083422.51	40083422.67	0.0090	0.0060	
Mercury	105032-10-28 04:18	G	40083510.57	40083510.68	40083510.81	0.0090	0.0070	
Mercury	105033-01-24 07:54	G	40083598.76	40083598.83	40083598.93	0.0090	0.0081	
Earth	105046-11-13 03:06	G	40088639.54	40088639.63	40088639.79	0.0090	0.0078	
Moon	105046-11-13 06:13	G	40088639.69	40088639.76	40088639.88	0.0090	0.0083	*
Moon	105047-11-15 11:59	G	40089006.81	40089007.00	40089007.22	0.0090	0.0052	
Earth	105047-11-15 15:21	G	40089006.96	40089007.14	40089007.36	0.0090	0.0057	*
Venus	105048-02-10 22:33	G	40089094.37	40089094.44	40089094.55	0.0090	0.0082	



Venus	105048-09-23 11:30 G	40089319.86	40089319.98	40089320.12	0.0090	0.0071
Earth	105048-11-17 03:06 G	40089374.41	40089374.63	40089374.88	0.0090	0.0036
Moon	105048-11-17 06:42 G	40089374.57	40089374.78	40089375.02	0.0090	0.0040 *
Venus	105049-05-06 23:59 G	40089545.36	40089545.50	40089545.68	0.0090	0.0061
Moon	105049-11-19 12:13 G	40089741.76	40089742.01	40089742.26	0.0090	0.0010
Earth	105049-11-19 15:21 G	40089741.89	40089742.14	40089742.40	0.0090	0.0015 *
Venus	105049-12-18 12:57 G	40089770.87	40089771.04	40089771.22	0.0090	0.0050
Venus	105050-08-01 01:25 G	40089996.38	40089996.56	40089996.77	0.0090	0.0040
Earth	105050-11-22 03:06 G	40090109.38	40090109.63	40090109.89	0.0090	0.0006
Moon	105050-11-22 05:16 G	40090109.46	40090109.72	40090109.98	0.0090	0.0002 *
Venus	105051-03-14 14:23 G	40090221.90	40090222.10	40090222.30	0.0090	0.0029
Venus	105051-10-26 02:52 G	40090447.41	40090447.62	40090447.84	0.0090	0.0019
Moon	105051-11-24 13:11 G	40090476.84	40090477.05	40090477.30	0.0090	0.0032
Earth	105051-11-24 14:52 G	40090476.88	40090477.12	40090477.36	0.0090	0.0027 *
Venus	105052-06-07 15:35 G	40090672.93	40090673.15	40090673.36	0.0090	0.0008
Moon	105052-11-26 01:40 G	40090844.36	40090844.57	40090844.82	0.0090	0.0044
Earth	105052-11-26 02:23 G	40090844.39	40090844.60	40090844.81	0.0090	0.0048 *
Venus	105053-01-19 04:04 G	40090898.46	40090898.67	40090898.89	0.0090	0.0002
Venus	105053-09-01 16:47 G	40091123.99	40091124.20	40091124.41	0.0090	0.0013
Earth	105053-11-28 13:25 G	40091211.91	40091212.06	40091212.24	0.0090	0.0069
Moon	105053-11-28 14:52 G	40091212.01	40091212.12	40091212.29	0.0090	0.0074 *
Venus	105054-04-15 05:01 G	40091349.51	40091349.71	40091349.93	0.0090	0.0024
Venus	105054-11-26 17:30 G	40091575.04	40091575.23	40091575.44	0.0090	0.0034
Moon	105054-11-30 22:33 G	40091579.37	40091579.44	40091579.54	0.0090	0.0085
Earth	105054-12-01 00:57 G	40091579.54	40091579.54	40091579.57	0.0090	0.0090 *
Venus	105055-07-10 06:13 G	40091800.57	40091800.76	40091800.95	0.0090	0.0044
Venus	105056-02-20 18:13 G	40092026.11	40092026.26	40092026.45	0.0090	0.0055
Venus	105056-10-03 07:11 G	40092251.66	40092251.80	40092251.95	0.0090	0.0065
Venus	105057-05-16 19:11 G	40092477.21	40092477.30	40092477.44	0.0090	0.0076
Venus	105057-12-28 07:54 G	40092702.79	40092702.83	40092702.91	0.0090	0.0086

Mars	105082-11-11 10:47 G	40101786.84	40101786.95	40101787.10	0.0089	0.0079
Mars	105084-10-05 00:28 G	40102480.24	40102480.52	40102480.81	0.0089	0.0014
Mercury	105109-10-11 08:37 G	40111616.85	40111616.86	40111616.90	0.0088	0.0086
Mercury	105110-01-07 10:04 G	40111704.87	40111704.92	40111704.98	0.0088	0.0079
Mercury	105110-04-05 11:30 G	40111792.91	40111792.98	40111793.05	0.0088	0.0072
Mercury	105110-07-02 12:28 G	40111880.94	40111881.02	40111881.12	0.0088	0.0066
Mercury	105110-09-28 13:54 G	40111968.99	40111969.08	40111969.18	0.0088	0.0059
Mercury	105110-12-25 15:06 G	40112057.03	40112057.13	40112057.24	0.0088	0.0052
Mercury	105111-03-23 16:33 G	40112145.08	40112145.19	40112145.30	0.0088	0.0045
Mercury	105111-06-19 17:45 G	40112233.12	40112233.24	40112233.36	0.0088	0.0038
Mercury	105111-09-15 18:57 G	40112321.17	40112321.29	40112321.42	0.0088	0.0032
Mercury	105111-12-12 20:23 G	40112409.22	40112409.35	40112409.48	0.0088	0.0025
Mercury	105112-03-09 21:35 G	40112497.27	40112497.40	40112497.53	0.0088	0.0018
Mercury	105112-06-05 22:47 G	40112585.32	40112585.45	40112585.59	0.0088	0.0012
Mercury	105112-09-02 00:13 G	40112673.38	40112673.51	40112673.64	0.0088	0.0005
Mercury	105112-11-29 01:25 G	40112761.43	40112761.56	40112761.69	0.0088	0.0002
Mercury	105113-02-25 02:37 G	40112849.48	40112849.61	40112849.75	0.0088	0.0009
Mercury	105113-05-24 04:04 G	40112937.54	40112937.67	40112937.80	0.0088	0.0016
Mercury	105113-08-20 05:16 G	40113025.59	40113025.72	40113025.85	0.0088	0.0023
Mercury	105113-11-16 06:28 G	40113113.65	40113113.77	40113113.90	0.0088	0.0029
Mercury	105114-02-12 07:40 G	40113201.70	40113201.82	40113201.94	0.0088	0.0036
Mercury	105114-05-11 08:52 G	40113289.76	40113289.87	40113289.99	0.0088	0.0043
Mercury	105114-08-07 10:04 G	40113377.82	40113377.92	40113378.04	0.0088	0.0050
Mercury	105114-11-03 11:30 G	40113465.88	40113465.98	40113466.08	0.0088	0.0056
Mercury	105115-01-30 12:42 G	40113553.94	40113554.03	40113554.12	0.0088	0.0063
Mercury	105115-04-28 13:40 G	40113642.01	40113642.07	40113642.16	0.0088	0.0070
Mercury	105115-07-25 15:21 G	40113730.07	40113730.14	40113730.20	0.0088	0.0076
Mercury	105115-10-21 16:18 G	40113818.15	40113818.18	40113818.23	0.0088	0.0083
Earth	105129-05-14 00:57 G	40118771.42	40118771.54	40118771.72	0.0088	0.0072
Moon	105129-05-14 04:04 G	40118771.53	40118771.67	40118771.85	0.0088	0.0067 *

Venus	105130-03-28 22:33 G	40119090.42	40119090.44	40119090.51	0.0088	0.0086
Moon	105130-05-16 09:35 G	40119138.71	40119138.90	40119139.12	0.0088	0.0056
Earth	105130-05-16 12:42 G	40119138.84	40119139.03	40119139.26	0.0088	0.0052 *
Venus	105130-11-09 11:59 G	40119315.91	40119316.00	40119316.13	0.0088	0.0076
Earth	105131-05-19 00:13 G	40119506.28	40119506.51	40119506.77	0.0088	0.0032
Moon	105131-05-19 04:04 G	40119506.44	40119506.67	40119506.93	0.0088	0.0027 *
Venus	105131-06-23 01:25 G	40119541.43	40119541.56	40119541.72	0.0088	0.0066
Venus	105132-02-03 14:52 G	40119766.96	40119767.12	40119767.31	0.0088	0.0056
Moon	105132-05-20 08:37 G	40119873.62	40119873.86	40119874.13	0.0088	0.0017
Earth	105132-05-20 11:59 G	40119873.75	40119874.00	40119874.27	0.0088	0.0012 *
Venus	105132-09-16 04:04 G	40119992.50	40119992.67	40119992.88	0.0088	0.0046
Venus	105133-04-29 17:30 G	40120218.04	40120218.23	40120218.46	0.0088	0.0036
Earth	105133-05-22 23:30 G	40120241.23	40120241.48	40120241.75	0.0088	0.0009
Moon	105133-05-23 02:23 G	40120241.34	40120241.60	40120241.87	0.0088	0.0013 *
Venus	105133-12-11 07:11 G	40120443.59	40120443.80	40120444.02	0.0088	0.0025
Moon	105134-05-25 09:21 G	40120608.65	40120608.89	40120609.14	0.0088	0.0024
Earth	105134-05-25 11:01 G	40120608.73	40120608.96	40120609.22	0.0088	0.0029 *
Venus	105134-07-24 20:37 G	40120669.14	40120669.36	40120669.59	0.0088	0.0015
Venus	105135-03-07 10:18 G	40120894.70	40120894.93	40120895.15	0.0088	0.0005
Earth	105135-05-27 22:47 G	40120976.24	40120976.45	40120976.67	0.0088	0.0048
Moon	105135-05-27 22:33 G	40120976.24	40120976.44	40120976.67	0.0088	0.0053 *
Venus	105135-10-18 23:45 G	40121120.26	40121120.49	40121120.71	0.0088	0.0006
Earth	105136-05-29 10:33 G	40121343.78	40121343.94	40121344.11	0.0088	0.0068
Moon	105136-05-29 11:30 G	40121343.81	40121343.98	40121344.16	0.0088	0.0064 *
Venus	105136-05-31 13:11 G	40121345.83	40121346.05	40121346.27	0.0088	0.0016
Venus	105137-01-12 02:09 G	40121571.39	40121571.59	40121571.82	0.0088	0.0027
Venus	105137-08-25 15:35 G	40121796.96	40121797.15	40121797.37	0.0088	0.0037
Venus	105138-04-08 05:16 G	40122022.55	40122022.72	40122022.93	0.0088	0.0047
Venus	105138-11-19 18:57 G	40122248.13	40122248.29	40122248.47	0.0088	0.0057
Venus	105139-07-03 08:23 G	40122473.72	40122473.85	40122474.00	0.0088	0.0067

Venus	105140-02-13 22:04 G	40122699.32	40122699.42	40122699.53	0.0088	0.0077
Venus	105140-09-26 11:30 G	40122924.96	40122924.98	40122925.01	0.0088	0.0087
Mars	105166-08-24 12:28 G	40132387.86	40132388.02	40132388.21	0.0088	0.0076
Mars	105168-07-20 18:57 G	40133083.98	40133084.29	40133084.60	0.0089	0.0035
Mercury	105193-12-11 16:47 G	40142359.18	40142359.20	40142359.26	0.0090	0.0088
Mercury	105194-03-09 20:37 G	40142447.28	40142447.36	40142447.47	0.0090	0.0077
Mercury	105194-06-06 00:13 G	40142535.40	40142535.51	40142535.66	0.0090	0.0067
Mercury	105194-09-02 04:18 G	40142623.53	40142623.68	40142623.84	0.0090	0.0056
Mercury	105194-11-29 07:54 G	40142711.67	40142711.83	40142712.01	0.0090	0.0046
Mercury	105195-02-25 11:45 G	40142799.82	40142799.99	40142800.18	0.0090	0.0035
Mercury	105195-05-24 15:21 G	40142887.96	40142888.14	40142888.34	0.0090	0.0025
Mercury	105195-08-20 19:25 G	40142976.12	40142976.31	40142976.50	0.0090	0.0014
Mercury	105195-11-16 23:16 G	40143064.27	40143064.47	40143064.66	0.0090	0.0003
Mercury	105196-02-13 02:52 G	40143152.43	40143152.62	40143152.82	0.0090	0.0008
Mercury	105196-05-11 06:28 G	40143240.59	40143240.77	40143240.97	0.0090	0.0019
Mercury	105196-08-07 10:18 G	40143328.75	40143328.93	40143329.12	0.0090	0.0029
Mercury	105196-11-03 13:54 G	40143416.92	40143417.08	40143417.27	0.0090	0.0040
Mercury	105197-01-30 17:30 G	40143505.09	40143505.23	40143505.41	0.0090	0.0051
Mercury	105197-04-28 21:35 G	40143593.27	40143593.40	40143593.55	0.0090	0.0061
Mercury	105197-07-26 01:11 G	40143681.45	40143681.55	40143681.69	0.0090	0.0072
Mercury	105197-10-22 05:16 G	40143769.65	40143769.72	40143769.80	0.0090	0.0082
Earth	105210-11-13 09:06 G	40148539.82	40148539.88	40148539.96	0.0090	0.0086
Moon	105210-11-13 11:01 G	40148539.86	40148539.96	40148540.07	0.0090	0.0082 *
Moon	105211-11-15 19:25 G	40148907.18	40148907.31	40148907.49	0.0090	0.0069
Earth	105211-11-15 21:06 G	40148907.20	40148907.38	40148907.55	0.0090	0.0065 *
Venus	105212-05-15 07:40 G	40149088.77	40149088.82	40149088.90	0.0090	0.0085
Moon	105212-11-17 08:09 G	40149274.62	40149274.84	40149275.09	0.0090	0.0041
Earth	105212-11-17 08:09 G	40149274.64	40149274.84	40149275.08	0.0090	0.0045 *
Venus	105212-12-26 20:09 G	40149314.24	40149314.34	40149314.47	0.0090	0.0075
Venus	105213-08-09 09:21 G	40149539.74	40149539.89	40149540.03	0.0090	0.0064

Earth	105213-11-19 20:09 G	40149642.11	40149642.34	40149642.60	0.0090	0.0024
Moon	105213-11-19 22:04 G	40149642.20	40149642.42	40149642.67	0.0090	0.0028 *
Venus	105214-03-22 21:35 G	40149765.24	40149765.40	40149765.58	0.0090	0.0054
Venus	105214-11-03 10:04 G	40149990.75	40149990.92	40149991.13	0.0090	0.0044
Moon	105214-11-22 05:45 G	40150009.48	40150009.74	40150010.00	0.0090	0.0001
Earth	105214-11-22 08:23 G	40150009.59	40150009.85	40150010.10	0.0090	0.0003 *
Venus	105215-06-16 23:01 G	40150216.26	40150216.46	40150216.66	0.0090	0.0033
Earth	105215-11-24 19:54 G	40150377.09	40150377.33	40150377.58	0.0090	0.0019
Moon	105215-11-24 23:16 G	40150377.23	40150377.47	40150377.72	0.0090	0.0015 *
Venus	105216-01-28 11:30 G	40150441.78	40150441.98	40150442.20	0.0090	0.0023
Venus	105216-09-10 00:28 G	40150667.31	40150667.52	40150667.73	0.0090	0.0012
Moon	105216-11-26 03:49 G	40150744.45	40150744.66	40150744.89	0.0090	0.0044
Earth	105216-11-26 07:11 G	40150744.59	40150744.80	40150745.05	0.0090	0.0040 *
Venus	105217-04-23 13:11 G	40150892.83	40150893.05	40150893.26	0.0090	0.0002
Earth	105217-11-28 18:42 G	40151112.12	40151112.28	40151112.49	0.0090	0.0061
Moon	105217-11-28 21:49 G	40151112.24	40151112.41	40151112.63	0.0090	0.0058 *
Venus	105217-12-05 01:40 G	40151118.35	40151118.57	40151118.78	0.0090	0.0009
Venus	105218-07-18 13:54 G	40151343.88	40151344.08	40151344.30	0.0090	0.0020
Moon	105218-12-01 03:49 G	40151479.60	40151479.66	40151479.76	0.0090	0.0085
Earth	105218-12-01 06:42 G	40151479.68	40151479.78	40151479.89	0.0090	0.0081 *
Venus	105219-03-01 02:37 G	40151569.41	40151569.61	40151569.82	0.0090	0.0030
Venus	105219-10-12 14:52 G	40151794.95	40151795.12	40151795.33	0.0090	0.0041
Venus	105220-05-25 03:35 G	40152020.48	40152020.65	40152020.84	0.0090	0.0051
Venus	105221-01-05 16:18 G	40152246.03	40152246.18	40152246.34	0.0090	0.0061
Venus	105221-08-19 04:33 G	40152471.58	40152471.69	40152471.83	0.0090	0.0072
Venus	105222-04-01 17:01 G	40152697.14	40152697.21	40152697.31	0.0090	0.0082
Mars	105248-05-21 09:49 G	40162243.63	40162243.91	40162244.19	0.0089	0.0021
Mars	105250-04-14 22:47 G	40162937.30	40162937.45	40162937.64	0.0089	0.0072
Mercury	105274-07-08 08:09 G	40171787.81	40171787.84	40171787.88	0.0088	0.0084
Mercury	105274-10-04 09:06 G	40171875.84	40171875.88	40171875.96	0.0088	0.0078

Mercury	105274-12-31 10:33 G	40171963.87	40171963.94	40171964.03	0.0088	0.0071
Mercury	105275-03-29 11:59 G	40172051.92	40172052.00	40172052.09	0.0088	0.0064
Mercury	105275-06-25 13:11 G	40172139.96	40172140.05	40172140.16	0.0088	0.0057
Mercury	105275-09-21 14:37 G	40172228.00	40172228.11	40172228.22	0.0088	0.0050
Mercury	105275-12-18 15:49 G	40172316.05	40172316.16	40172316.28	0.0088	0.0044
Mercury	105276-03-15 17:01 G	40172404.10	40172404.21	40172404.34	0.0088	0.0037
Mercury	105276-06-11 18:28 G	40172492.15	40172492.27	40172492.39	0.0088	0.0030
Mercury	105276-09-07 19:40 G	40172580.20	40172580.32	40172580.45	0.0088	0.0023
Mercury	105276-12-04 20:52 G	40172668.25	40172668.37	40172668.51	0.0088	0.0017
Mercury	105277-03-02 22:18 G	40172756.30	40172756.43	40172756.56	0.0088	0.0010
Mercury	105277-05-29 23:30 G	40172844.35	40172844.48	40172844.61	0.0088	0.0003
Mercury	105277-08-26 00:42 G	40172932.40	40172932.53	40172932.67	0.0088	0.0005
Mercury	105277-11-22 02:09 G	40173020.46	40173020.59	40173020.72	0.0088	0.0011
Mercury	105278-02-18 03:21 G	40173108.51	40173108.64	40173108.77	0.0088	0.0017
Mercury	105278-05-17 04:33 G	40173196.57	40173196.69	40173196.82	0.0088	0.0024
Mercury	105278-08-13 05:45 G	40173284.62	40173284.74	40173284.87	0.0088	0.0031
Mercury	105278-11-09 06:57 G	40173372.68	40173372.79	40173372.92	0.0088	0.0038
Mercury	105279-02-05 08:09 G	40173460.74	40173460.84	40173460.96	0.0088	0.0045
Mercury	105279-05-04 09:35 G	40173548.80	40173548.90	40173549.01	0.0088	0.0051
Mercury	105279-07-31 10:47 G	40173636.86	40173636.95	40173637.05	0.0088	0.0058
Mercury	105279-10-27 11:45 G	40173724.92	40173724.99	40173725.09	0.0088	0.0065
Mercury	105280-01-23 13:11 G	40173812.98	40173813.05	40173813.13	0.0088	0.0071
Mercury	105280-04-20 14:23 G	40173901.05	40173901.10	40173901.17	0.0088	0.0078
Mercury	105280-07-17 15:35 G	40173989.13	40173989.15	40173989.19	0.0088	0.0085
Earth	105293-05-13 07:25 G	40178671.72	40178671.81	40178671.95	0.0088	0.0079
Moon	105293-05-13 09:49 G	40178671.85	40178671.91	40178672.03	0.0088	0.0083 *
Moon	105294-05-15 17:16 G	40179039.05	40179039.22	40179039.44	0.0088	0.0056
Earth	105294-05-15 19:25 G	40179039.13	40179039.31	40179039.51	0.0088	0.0059 *
Venus	105295-02-10 20:09 G	40179310.27	40179310.34	40179310.47	0.0088	0.0079
Earth	105295-05-18 06:57 G	40179406.56	40179406.79	40179407.03	0.0088	0.0039

Moon	105295-05-18 06:28 G	40179406.56	40179406.77	40179407.03	0.0088	0.0044	*
Venus	105295-09-24 09:35 G	40179535.79	40179535.90	40179536.07	0.0088	0.0069	
Venus	105296-05-06 23:01 G	40179761.32	40179761.46	40179761.65	0.0088	0.0059	
Earth	105296-05-19 18:13 G	40179774.02	40179774.26	40179774.53	0.0088	0.0020	
Moon	105296-05-19 19:40 G	40179774.08	40179774.32	40179774.58	0.0088	0.0015	*
Venus	105296-12-18 12:28 G	40179986.85	40179987.02	40179987.23	0.0088	0.0049	
Moon	105297-05-22 04:04 G	40180141.40	40180141.67	40180141.94	0.0088	0.0003	
Earth	105297-05-22 06:13 G	40180141.50	40180141.76	40180142.02	0.0088	0.0001	*
Venus	105297-08-01 02:09 G	40180212.39	40180212.59	40180212.80	0.0088	0.0038	
Venus	105298-03-14 15:49 G	40180437.95	40180438.16	40180438.37	0.0088	0.0028	
Earth	105298-05-24 17:30 G	40180508.98	40180509.23	40180509.49	0.0088	0.0021	
Moon	105298-05-24 20:52 G	40180509.13	40180509.37	40180509.63	0.0088	0.0026	*
Venus	105298-10-26 05:01 G	40180663.50	40180663.71	40180663.94	0.0088	0.0018	
Moon	105299-05-27 01:25 G	40180876.34	40180876.56	40180876.82	0.0088	0.0037	
Earth	105299-05-27 05:16 G	40180876.50	40180876.72	40180876.96	0.0088	0.0041	*
Venus	105299-06-08 18:28 G	40180889.05	40180889.27	40180889.50	0.0088	0.0008	
Venus	105300-01-20 07:54 G	40181114.60	40181114.83	40181115.06	0.0088	0.0003	
Earth	105300-05-29 16:33 G	40181244.02	40181244.19	40181244.40	0.0088	0.0061	
Moon	105300-05-29 20:09 G	40181244.19	40181244.34	40181244.54	0.0088	0.0065	*
Venus	105300-09-02 21:21 G	40181340.17	40181340.39	40181340.61	0.0088	0.0013	
Venus	105301-04-16 10:33 G	40181565.74	40181565.94	40181566.17	0.0088	0.0024	
Moon	105301-06-01 01:11 G	40181611.46	40181611.55	40181611.71	0.0088	0.0077	
Earth	105301-06-01 04:18 G	40181611.60	40181611.68	40181611.80	0.0088	0.0081	*
Venus	105301-11-27 23:59 G	40181791.31	40181791.50	40181791.72	0.0088	0.0034	
Venus	105302-07-11 13:25 G	40182016.88	40182017.06	40182017.27	0.0088	0.0044	
Venus	105303-02-22 03:06 G	40182242.46	40182242.63	40182242.82	0.0088	0.0054	
Venus	105303-10-05 16:33 G	40182468.05	40182468.19	40182468.36	0.0088	0.0064	
Venus	105304-05-18 06:13 G	40182693.65	40182693.76	40182693.88	0.0088	0.0074	
Venus	105304-12-29 19:40 G	40182919.27	40182919.32	40182919.39	0.0088	0.0084	
Mars	105332-03-03 23:16 G	40192845.13	40192845.47	40192845.82	0.0088	0.0008	

Mercury	105358-09-08 13:40 G	40202530.04	40202530.07	40202530.14	0.0089	0.0087
Mercury	105358-12-05 17:45 G	40202618.15	40202618.24	40202618.35	0.0089	0.0076
Mercury	105359-03-03 21:06 G	40202706.27	40202706.38	40202706.53	0.0090	0.0066
Mercury	105359-05-31 01:11 G	40202794.40	40202794.55	40202794.71	0.0090	0.0055
Mercury	105359-08-27 04:47 G	40202882.54	40202882.70	40202882.88	0.0090	0.0045
Mercury	105359-11-23 08:37 G	40202970.69	40202970.86	40202971.05	0.0090	0.0034
Mercury	105360-02-19 12:28 G	40203058.84	40203059.02	40203059.21	0.0090	0.0023
Mercury	105360-05-17 16:18 G	40203146.99	40203147.18	40203147.38	0.0090	0.0013
Mercury	105360-08-13 20:09 G	40203235.14	40203235.34	40203235.53	0.0090	0.0002
Mercury	105360-11-09 23:45 G	40203323.30	40203323.49	40203323.69	0.0090	0.0009
Mercury	105361-02-06 03:21 G	40203411.46	40203411.64	40203411.84	0.0090	0.0020
Mercury	105361-05-05 07:11 G	40203499.62	40203499.80	40203499.99	0.0090	0.0030
Mercury	105361-08-01 10:47 G	40203587.79	40203587.95	40203588.14	0.0090	0.0041
Mercury	105361-10-28 14:52 G	40203675.96	40203676.12	40203676.28	0.0090	0.0051
Mercury	105362-01-24 18:28 G	40203764.14	40203764.27	40203764.42	0.0090	0.0062
Mercury	105362-04-22 22:04 G	40203852.32	40203852.42	40203852.55	0.0090	0.0073
Mercury	105362-07-20 02:09 G	40203940.53	40203940.59	40203940.67	0.0090	0.0083
Earth	105375-11-16 02:09 G	40208807.45	40208807.59	40208807.73	0.0090	0.0074
Moon	105375-11-16 04:47 G	40208807.58	40208807.70	40208807.88	0.0090	0.0073 *
Venus	105376-08-17 16:18 G	40209083.17	40209083.18	40209083.23	0.0090	0.0089
Moon	105376-11-17 10:04 G	40209174.73	40209174.92	40209175.12	0.0090	0.0056
Earth	105376-11-17 13:54 G	40209174.87	40209175.08	40209175.28	0.0090	0.0053 *
Venus	105377-03-31 05:30 G	40209308.62	40209308.73	40209308.83	0.0090	0.0078
Venus	105377-11-11 17:45 G	40209534.11	40209534.24	40209534.39	0.0090	0.0068
Earth	105377-11-20 01:11 G	40209542.33	40209542.55	40209542.80	0.0090	0.0033
Moon	105377-11-20 04:18 G	40209542.45	40209542.68	40209542.94	0.0090	0.0031 *
Venus	105378-06-25 06:13 G	40209759.61	40209759.76	40209759.94	0.0090	0.0058
Moon	105378-11-22 10:47 G	40209909.71	40209909.95	40209910.20	0.0090	0.0013
Earth	105378-11-22 13:11 G	40209909.80	40209910.05	40209910.31	0.0090	0.0012 *
Venus	105379-02-05 18:57 G	40209985.12	40209985.29	40209985.48	0.0090	0.0047



Venus	105379-09-19 07:40 G	40210210.64	40210210.82	40210211.03	0.0090	0.0037
Earth	105379-11-25 00:42 G	40210277.28	40210277.53	40210277.79	0.0090	0.0010
Moon	105379-11-25 01:54 G	40210277.32	40210277.58	40210277.84	0.0090	0.0012 *
Venus	105380-05-01 20:37 G	40210436.15	40210436.36	40210436.56	0.0090	0.0026
Earth	105380-11-26 12:28 G	40210644.79	40210645.02	40210645.27	0.0090	0.0031
Moon	105380-11-26 12:42 G	40210644.80	40210645.03	40210645.27	0.0090	0.0029 *
Venus	105380-12-13 09:06 G	40210661.67	40210661.88	40210662.09	0.0090	0.0016
Venus	105381-07-26 21:35 G	40210887.19	40210887.40	40210887.62	0.0090	0.0006
Moon	105381-11-28 22:47 G	40211012.26	40211012.45	40211012.68	0.0090	0.0054
Earth	105381-11-28 23:59 G	40211012.31	40211012.50	40211012.73	0.0090	0.0052 *
Venus	105382-03-09 10:18 G	40211112.72	40211112.93	40211113.15	0.0090	0.0005
Venus	105382-10-20 23:01 G	40211338.25	40211338.46	40211338.67	0.0090	0.0016
Earth	105382-12-01 11:30 G	40211379.85	40211379.98	40211380.15	0.0090	0.0073
Moon	105382-12-01 14:09 G	40211379.96	40211380.09	40211380.27	0.0090	0.0071 *
Venus	105383-06-03 11:16 G	40211563.78	40211563.97	40211564.19	0.0090	0.0027
Venus	105384-01-14 23:59 G	40211789.31	40211789.50	40211789.70	0.0090	0.0037
Venus	105384-08-27 12:42 G	40212014.85	40212015.03	40212015.22	0.0090	0.0047
Venus	105385-04-10 00:57 G	40212240.39	40212240.54	40212240.72	0.0090	0.0058
Venus	105385-11-21 13:25 G	40212465.94	40212466.06	40212466.21	0.0090	0.0068
Venus	105386-07-05 02:09 G	40212691.49	40212691.59	40212691.70	0.0090	0.0078
Venus	105387-02-15 14:09 G	40212917.08	40212917.09	40212917.15	0.0090	0.0089
Jupiter	105406-10-07 17:30 G	40220089.84	40220090.23	40220090.68	0.0089	0.0053
Mars	105412-01-06 17:59 G	40222007.04	40222007.25	40222007.48	0.0089	0.0056
Mars	105413-11-30 07:54 G	40222700.59	40222700.83	40222701.11	0.0089	0.0037
Mercury	105439-04-06 07:11 G	40231958.77	40231958.80	40231958.86	0.0088	0.0083
Mercury	105439-07-03 08:37 G	40232046.80	40232046.86	40232046.93	0.0088	0.0076
Mercury	105439-09-29 10:04 G	40232134.84	40232134.92	40232135.00	0.0088	0.0069
Mercury	105439-12-26 11:01 G	40232222.88	40232222.96	40232223.07	0.0088	0.0063
Mercury	105440-03-23 12:28 G	40232310.93	40232311.02	40232311.13	0.0088	0.0056
Mercury	105440-06-19 13:54 G	40232398.97	40232399.08	40232399.19	0.0088	0.0049

Mercury	105440-09-15 15:06 G	40232487.02	40232487.13	40232487.25	0.0088	0.0042
Mercury	105440-12-12 16:18 G	40232575.07	40232575.18	40232575.31	0.0088	0.0036
Mercury	105441-03-10 17:45 G	40232663.12	40232663.24	40232663.37	0.0088	0.0029
Mercury	105441-06-06 18:57 G	40232751.17	40232751.29	40232751.42	0.0088	0.0022
Mercury	105441-09-02 20:23 G	40232839.22	40232839.35	40232839.48	0.0088	0.0015
Mercury	105441-11-29 21:35 G	40232927.27	40232927.40	40232927.53	0.0088	0.0008
Mercury	105442-02-25 22:47 G	40233015.32	40233015.45	40233015.59	0.0088	0.0002
Mercury	105442-05-24 23:59 G	40233103.37	40233103.50	40233103.64	0.0088	0.0006
Mercury	105442-08-21 01:25 G	40233191.43	40233191.56	40233191.69	0.0088	0.0012
Mercury	105442-11-17 02:37 G	40233279.48	40233279.61	40233279.74	0.0088	0.0019
Mercury	105443-02-13 03:49 G	40233367.54	40233367.66	40233367.79	0.0088	0.0025
Mercury	105443-05-12 05:16 G	40233455.59	40233455.72	40233455.84	0.0088	0.0032
Mercury	105443-08-08 06:13 G	40233543.65	40233543.76	40233543.89	0.0088	0.0039
Mercury	105443-11-04 07:25 G	40233631.71	40233631.81	40233631.93	0.0088	0.0046
Mercury	105444-01-31 08:52 G	40233719.77	40233719.87	40233719.98	0.0088	0.0052
Mercury	105444-04-28 10:04 G	40233807.83	40233807.92	40233808.02	0.0088	0.0059
Mercury	105444-07-25 11:16 G	40233895.89	40233895.97	40233896.06	0.0088	0.0066
Mercury	105444-10-21 12:13 G	40233983.96	40233984.01	40233984.10	0.0088	0.0073
Mercury	105445-01-17 13:40 G	40234072.03	40234072.07	40234072.13	0.0088	0.0079
Mercury	105445-04-15 14:52 G	40234160.11	40234160.12	40234160.16	0.0088	0.0086
Moon	105457-05-14 11:16 G	40238571.92	40238571.97	40238572.08	0.0088	0.0084
Earth	105457-05-14 13:40 G	40238572.06	40238572.07	40238572.14	0.0088	0.0087 *
Earth	105458-05-17 01:11 G	40238939.40	40238939.55	40238939.74	0.0088	0.0067
Moon	105458-05-17 04:47 G	40238939.56	40238939.70	40238939.87	0.0088	0.0070 *
Venus	105459-05-17 04:18 G	40239304.63	40239304.68	40239304.79	0.0088	0.0082
Moon	105459-05-19 09:21 G	40239306.68	40239306.89	40239307.14	0.0088	0.0044
Earth	105459-05-19 13:11 G	40239306.84	40239307.05	40239307.28	0.0088	0.0047 *
Venus	105459-12-28 17:45 G	40239530.14	40239530.24	40239530.39	0.0088	0.0072
Earth	105460-05-21 00:42 G	40239674.29	40239674.53	40239674.79	0.0088	0.0027
Moon	105460-05-21 04:04 G	40239674.44	40239674.67	40239674.94	0.0088	0.0030 *

Venus	105460-08-10 07:11 G	40239755.66	40239755.80	40239755.98	0.0088	0.0062
Venus	105461-03-23 20:37 G	40239981.20	40239981.36	40239981.57	0.0088	0.0052
Moon	105461-05-23 09:35 G	40240041.64	40240041.90	40240042.15	0.0088	0.0003
Earth	105461-05-23 12:28 G	40240041.76	40240042.02	40240042.28	0.0088	0.0007 *
Venus	105461-11-04 10:33 G	40240206.74	40240206.94	40240207.14	0.0088	0.0041
Earth	105462-05-25 23:45 G	40240409.24	40240409.49	40240409.76	0.0088	0.0014
Moon	105462-05-26 01:25 G	40240409.29	40240409.56	40240409.83	0.0088	0.0010 *
Venus	105462-06-17 23:45 G	40240432.29	40240432.49	40240432.71	0.0088	0.0031
Venus	105463-01-29 13:11 G	40240657.84	40240658.05	40240658.27	0.0088	0.0021
Moon	105463-05-28 10:47 G	40240776.72	40240776.95	40240777.18	0.0088	0.0036
Earth	105463-05-28 11:16 G	40240776.74	40240776.97	40240777.22	0.0088	0.0034 *
Venus	105463-09-12 02:37 G	40240883.39	40240883.61	40240883.84	0.0088	0.0011
Venus	105464-04-24 16:04 G	40241108.95	40241109.17	40241109.40	0.0088	0.0001
Moon	105464-05-29 22:04 G	40241144.20	40241144.42	40241144.64	0.0088	0.0050
Earth	105464-05-29 22:33 G	40241144.26	40241144.44	40241144.67	0.0088	0.0054 *
Venus	105464-12-06 05:30 G	40241334.50	40241334.73	40241334.95	0.0088	0.0010
Earth	105465-06-01 09:49 G	40241511.80	40241511.91	40241512.09	0.0088	0.0074
Moon	105465-06-01 12:28 G	40241511.92	40241512.02	40241512.16	0.0088	0.0077 *
Venus	105465-07-19 18:57 G	40241560.07	40241560.29	40241560.51	0.0088	0.0020
Venus	105466-03-02 07:54 G	40241785.64	40241785.83	40241786.06	0.0088	0.0031
Venus	105466-10-13 21:21 G	40242011.21	40242011.39	40242011.61	0.0088	0.0041
Venus	105467-05-27 10:47 G	40242236.78	40242236.95	40242237.15	0.0088	0.0051
Venus	105468-01-08 00:13 G	40242462.37	40242462.51	40242462.69	0.0088	0.0061
Venus	105468-08-20 13:40 G	40242687.96	40242688.07	40242688.22	0.0088	0.0071
Venus	105469-04-03 03:21 G	40242913.57	40242913.64	40242913.74	0.0088	0.0081
Mars	105495-10-17 01:40 G	40252606.31	40252606.57	40252606.87	0.0088	0.0051
Mars	105497-09-12 09:21 G	40253302.66	40253302.89	40253303.16	0.0088	0.0061
Mercury	105523-06-07 11:01 G	40262700.91	40262700.96	40262701.03	0.0089	0.0085
Mercury	105523-09-03 14:37 G	40262789.02	40262789.11	40262789.23	0.0089	0.0075
Mercury	105523-11-30 18:42 G	40262877.14	40262877.28	40262877.41	0.0089	0.0064

Mercury	105524-02-26 22:04 G	40262965.28	40262965.42	40262965.59	0.0089	0.0054
Mercury	105524-05-25 02:09 G	40263053.42	40263053.59	40263053.76	0.0090	0.0043
Mercury	105524-08-21 05:45 G	40263141.56	40263141.74	40263141.93	0.0090	0.0033
Mercury	105524-11-17 09:35 G	40263229.71	40263229.90	40263230.09	0.0090	0.0022
Mercury	105525-02-13 13:11 G	40263317.86	40263318.05	40263318.25	0.0090	0.0012
Mercury	105525-05-12 17:01 G	40263406.02	40263406.21	40263406.41	0.0090	0.0002
Mercury	105525-08-08 20:52 G	40263494.18	40263494.37	40263494.57	0.0090	0.0010
Mercury	105525-11-05 00:28 G	40263582.34	40263582.52	40263582.72	0.0090	0.0021
Mercury	105526-02-01 04:18 G	40263670.50	40263670.68	40263670.87	0.0090	0.0031
Mercury	105526-04-30 07:54 G	40263758.67	40263758.83	40263759.01	0.0090	0.0042
Mercury	105526-07-27 11:30 G	40263846.84	40263846.98	40263847.16	0.0090	0.0053
Mercury	105526-10-23 15:35 G	40263935.02	40263935.15	40263935.30	0.0090	0.0063
Mercury	105527-01-19 19:11 G	40264023.20	40264023.30	40264023.43	0.0090	0.0074
Mercury	105527-04-17 23:01 G	40264111.41	40264111.46	40264111.54	0.0090	0.0084
Earth	105539-11-17 06:28 G	40268707.68	40268707.77	40268707.87	0.0090	0.0083
Moon	105539-11-17 06:57 G	40268707.72	40268707.79	40268707.91	0.0090	0.0084 *
Earth	105540-11-18 17:45 G	40269075.08	40269075.24	40269075.45	0.0090	0.0063
Moon	105540-11-18 18:28 G	40269075.11	40269075.27	40269075.47	0.0090	0.0062 *
Venus	105541-07-04 13:40 G	40269302.99	40269303.07	40269303.16	0.0090	0.0082
Moon	105541-11-21 04:18 G	40269442.47	40269442.68	40269442.94	0.0090	0.0042
Earth	105541-11-21 05:45 G	40269442.53	40269442.74	40269442.98	0.0090	0.0042 *
Venus	105542-02-15 01:54 G	40269528.47	40269528.58	40269528.73	0.0090	0.0072
Venus	105542-09-28 14:37 G	40269753.97	40269754.11	40269754.29	0.0090	0.0062
Earth	105542-11-23 17:30 G	40269809.99	40269810.23	40269810.49	0.0090	0.0021
Moon	105542-11-23 20:23 G	40269810.11	40269810.35	40269810.60	0.0090	0.0020 *
Venus	105543-05-12 03:35 G	40269979.48	40269979.65	40269979.83	0.0090	0.0051
Moon	105543-11-26 02:09 G	40270177.33	40270177.59	40270177.84	0.0090	0.0001
Earth	105543-11-26 05:30 G	40270177.47	40270177.73	40270177.98	0.0090	0.0001 *
Venus	105543-12-23 16:04 G	40270204.99	40270205.17	40270205.37	0.0090	0.0041
Venus	105544-08-05 04:47 G	40270430.50	40270430.70	40270430.91	0.0090	0.0030

Earth	105544-11-27 16:47 G	40270544.97	40270545.20	40270545.46	0.0090	0.0022
Moon	105544-11-27 20:23 G	40270545.11	40270545.35	40270545.61	0.0090	0.0022 *
Venus	105545-03-18 17:16 G	40270656.02	40270656.22	40270656.44	0.0090	0.0020
Venus	105545-10-30 06:13 G	40270881.54	40270881.76	40270881.97	0.0090	0.0009
Moon	105545-11-30 00:57 G	40270912.34	40270912.54	40270912.78	0.0090	0.0043
Earth	105545-11-30 04:33 G	40270912.48	40270912.69	40270912.93	0.0090	0.0043 *
Venus	105546-06-12 18:42 G	40271107.07	40271107.28	40271107.50	0.0090	0.0002
Earth	105546-12-02 16:04 G	40271280.01	40271280.17	40271280.37	0.0090	0.0064
Moon	105546-12-02 18:42 G	40271280.11	40271280.28	40271280.47	0.0090	0.0064 *
Venus	105547-01-24 07:25 G	40271332.59	40271332.81	40271333.02	0.0090	0.0012
Venus	105547-09-06 19:54 G	40271558.13	40271558.33	40271558.55	0.0090	0.0023
Moon	105547-12-05 02:23 G	40271647.53	40271647.60	40271647.68	0.0090	0.0085
Earth	105547-12-05 03:35 G	40271647.59	40271647.65	40271647.76	0.0090	0.0085 *
Venus	105548-04-19 08:37 G	40271783.66	40271783.86	40271784.06	0.0090	0.0033
Venus	105548-11-30 20:52 G	40272009.20	40272009.37	40272009.58	0.0090	0.0044
Venus	105549-07-14 09:21 G	40272234.74	40272234.89	40272235.08	0.0090	0.0054
Venus	105550-02-24 22:04 G	40272460.28	40272460.42	40272460.58	0.0090	0.0064
Venus	105550-10-08 10:33 G	40272685.84	40272685.94	40272686.08	0.0090	0.0075
Venus	105551-05-21 23:01 G	40272911.42	40272911.46	40272911.55	0.0090	0.0085
Jupiter	105572-12-02 17:30 G	40280776.79	40280777.23	40280777.75	0.0089	0.0036
Mars	105577-07-16 14:37 G	40282463.82	40282464.11	40282464.40	0.0089	0.0001
Mercury	105604-01-02 06:28 G	40292129.74	40292129.77	40292129.83	0.0088	0.0082
Mercury	105604-03-30 07:54 G	40292217.77	40292217.83	40292217.90	0.0088	0.0075
Mercury	105604-06-26 09:06 G	40292305.81	40292305.88	40292305.97	0.0088	0.0068
Mercury	105604-09-22 10:33 G	40292393.85	40292393.94	40292394.04	0.0088	0.0061
Mercury	105604-12-19 11:45 G	40292481.89	40292481.99	40292482.10	0.0088	0.0055
Mercury	105605-03-17 12:57 G	40292569.94	40292570.04	40292570.16	0.0088	0.0048
Mercury	105605-06-13 14:23 G	40292657.99	40292658.10	40292658.22	0.0088	0.0041
Mercury	105605-09-09 15:49 G	40292746.03	40292746.16	40292746.28	0.0088	0.0034
Mercury	105605-12-06 16:47 G	40292834.08	40292834.20	40292834.33	0.0088	0.0028

Mercury	105606-03-04 18:13 G	40292922.13	40292922.26	40292922.39	0.0088	0.0021
Mercury	105606-05-31 19:40 G	40293010.18	40293010.32	40293010.45	0.0088	0.0014
Mercury	105606-08-27 20:52 G	40293098.24	40293098.37	40293098.50	0.0088	0.0007
Mercury	105606-11-23 22:04 G	40293186.29	40293186.42	40293186.55	0.0088	0.0001
Mercury	105607-02-19 23:16 G	40293274.34	40293274.47	40293274.61	0.0088	0.0007
Mercury	105607-05-19 00:42 G	40293362.40	40293362.53	40293362.66	0.0088	0.0013
Mercury	105607-08-15 01:54 G	40293450.45	40293450.58	40293450.71	0.0088	0.0020
Mercury	105607-11-11 02:52 G	40293538.50	40293538.62	40293538.76	0.0088	0.0027
Mercury	105608-02-07 04:18 G	40293626.56	40293626.68	40293626.80	0.0088	0.0033
Mercury	105608-05-05 05:30 G	40293714.62	40293714.73	40293714.85	0.0088	0.0040
Mercury	105608-08-01 06:42 G	40293802.68	40293802.78	40293802.90	0.0088	0.0047
Mercury	105608-10-28 08:09 G	40293890.73	40293890.84	40293890.94	0.0088	0.0053
Mercury	105609-01-24 09:06 G	40293978.79	40293978.88	40293978.99	0.0088	0.0060
Mercury	105609-04-22 10:18 G	40294066.86	40294066.93	40294067.03	0.0088	0.0067
Mercury	105609-07-19 11:30 G	40294154.92	40294154.98	40294155.07	0.0088	0.0074
Mercury	105609-10-15 12:57 G	40294243.00	40294243.04	40294243.10	0.0088	0.0080
Mercury	105610-01-11 14:09 G	40294331.08	40294331.09	40294331.12	0.0088	0.0087
Moon	105622-05-17 06:57 G	40298839.67	40298839.79	40298839.98	0.0088	0.0072
Earth	105622-05-17 07:11 G	40298839.69	40298839.80	40298839.96	0.0088	0.0075 *
Earth	105623-05-19 18:57 G	40299207.11	40299207.29	40299207.51	0.0088	0.0055
Moon	105623-05-19 19:54 G	40299207.16	40299207.33	40299207.54	0.0088	0.0058 *
Venus	105623-08-19 12:57 G	40299298.98	40299299.04	40299299.10	0.0088	0.0084
Venus	105624-04-01 02:23 G	40299524.49	40299524.60	40299524.72	0.0088	0.0074
Moon	105624-05-21 04:33 G	40299574.45	40299574.69	40299574.95	0.0088	0.0032
Earth	105624-05-21 06:42 G	40299574.55	40299574.78	40299575.03	0.0088	0.0035 *
Venus	105624-11-12 15:49 G	40299750.01	40299750.16	40299750.32	0.0088	0.0064
Earth	105625-05-23 18:28 G	40299942.02	40299942.27	40299942.53	0.0088	0.0015
Moon	105625-05-23 21:49 G	40299942.16	40299942.41	40299942.67	0.0088	0.0018 *
Venus	105625-06-26 05:16 G	40299975.54	40299975.72	40299975.90	0.0088	0.0054
Venus	105626-02-06 18:28 G	40300201.09	40300201.27	40300201.48	0.0088	0.0044

Moon	105626-05-26 02:37 G	40300309.36	40300309.61	40300309.88	0.0088	0.0009
Earth	105626-05-26 06:13 G	40300309.50	40300309.76	40300310.02	0.0088	0.0006 *
Venus	105626-09-20 07:54 G	40300426.63	40300426.83	40300427.05	0.0088	0.0034
Venus	105627-05-03 21:21 G	40300652.18	40300652.39	40300652.62	0.0088	0.0024
Earth	105627-05-28 17:45 G	40300676.99	40300677.24	40300677.49	0.0088	0.0026
Moon	105627-05-28 21:06 G	40300677.15	40300677.38	40300677.65	0.0088	0.0024 *
Venus	105627-12-15 10:47 G	40300877.74	40300877.95	40300878.18	0.0088	0.0014
Moon	105628-05-30 02:23 G	40301044.41	40301044.60	40301044.83	0.0088	0.0050
Earth	105628-05-30 05:16 G	40301044.51	40301044.72	40301044.95	0.0088	0.0046 *
Venus	105628-07-28 00:13 G	40301103.29	40301103.51	40301103.74	0.0088	0.0004
Venus	105629-03-10 13:54 G	40301328.85	40301329.08	40301329.30	0.0088	0.0007
Earth	105629-06-01 16:47 G	40301412.04	40301412.20	40301412.38	0.0088	0.0066
Moon	105629-06-01 18:13 G	40301412.11	40301412.26	40301412.48	0.0088	0.0064 *
Venus	105629-10-22 03:06 G	40301554.42	40301554.63	40301554.86	0.0088	0.0017
Earth	105630-06-04 04:18 G	40301779.65	40301779.68	40301779.75	0.0088	0.0086
Venus	105630-06-04 16:18 G	40301779.98	40301780.18	40301780.41	0.0088	0.0028
Venus	105631-01-16 05:45 G	40302005.55	40302005.74	40302005.95	0.0088	0.0038
Venus	105631-08-29 18:57 G	40302231.12	40302231.29	40302231.50	0.0088	0.0048
Venus	105632-04-11 08:37 G	40302456.71	40302456.86	40302457.04	0.0088	0.0058
Venus	105632-11-22 22:04 G	40302682.29	40302682.42	40302682.57	0.0088	0.0068
Venus	105633-07-06 11:30 G	40302907.89	40302907.98	40302908.09	0.0088	0.0078
Mars	105661-04-26 13:40 G	40313063.74	40313064.07	40313064.42	0.0088	0.0019
Mercury	105688-03-03 08:09 G	40322871.77	40322871.84	40322871.90	0.0089	0.0084
Mercury	105688-05-30 11:30 G	40322959.88	40322959.98	40322960.10	0.0089	0.0074
Mercury	105688-08-26 15:06 G	40323048.01	40323048.13	40323048.28	0.0089	0.0064
Mercury	105688-11-22 18:57 G	40323136.15	40323136.29	40323136.46	0.0089	0.0053
Mercury	105689-02-18 22:33 G	40323224.29	40323224.44	40323224.63	0.0089	0.0043
Mercury	105689-05-18 02:37 G	40323312.43	40323312.61	40323312.80	0.0089	0.0032
Mercury	105689-08-14 06:13 G	40323400.58	40323400.76	40323400.96	0.0089	0.0022
Mercury	105689-11-10 10:04 G	40323488.73	40323488.92	40323489.12	0.0089	0.0011

Mercury	105690-02-06 13:54 G	40323576.89	40323577.08	40323577.28	0.0089	0.0002
Mercury	105690-05-05 17:45 G	40323665.05	40323665.24	40323665.44	0.0090	0.0011
Mercury	105690-08-01 21:21 G	40323753.21	40323753.39	40323753.59	0.0090	0.0022
Mercury	105690-10-29 01:11 G	40323841.37	40323841.55	40323841.74	0.0090	0.0032
Mercury	105691-01-25 04:47 G	40323929.54	40323929.70	40323929.88	0.0090	0.0043
Mercury	105691-04-23 08:52 G	40324017.71	40324017.87	40324018.03	0.0090	0.0053
Mercury	105691-07-20 12:28 G	40324105.89	40324106.02	40324106.17	0.0090	0.0064
Mercury	105691-10-16 16:04 G	40324194.08	40324194.17	40324194.29	0.0090	0.0075
Mercury	105692-01-12 19:54 G	40324282.28	40324282.33	40324282.40	0.0090	0.0085
Moon	105703-11-17 11:01 G	40328607.93	40328607.96	40328608.03	0.0090	0.0088
Moon	105704-11-18 21:06 G	40328975.27	40328975.38	40328975.54	0.0090	0.0076
Earth	105704-11-18 22:47 G	40328975.33	40328975.45	40328975.63	0.0090	0.0072 *
Venus	105705-10-06 22:04 G	40329297.38	40329297.42	40329297.51	0.0090	0.0086
Earth	105705-11-21 10:33 G	40329342.75	40329342.94	40329343.17	0.0090	0.0051
Moon	105705-11-21 13:11 G	40329342.85	40329343.05	40329343.28	0.0090	0.0046 *
Venus	105706-05-20 10:33 G	40329522.85	40329522.94	40329523.08	0.0090	0.0076
Moon	105706-11-23 18:57 G	40329710.07	40329710.29	40329710.54	0.0090	0.0035
Earth	105706-11-23 22:47 G	40329710.21	40329710.45	40329710.69	0.0090	0.0029 *
Venus	105706-12-31 23:30 G	40329748.34	40329748.48	40329748.64	0.0090	0.0065
Venus	105707-08-14 11:59 G	40329973.85	40329974.00	40329974.19	0.0090	0.0055
Earth	105707-11-26 10:18 G	40330077.68	40330077.93	40330078.19	0.0090	0.0008
Moon	105707-11-26 13:54 G	40330077.82	40330078.08	40330078.33	0.0090	0.0003 *
Venus	105708-03-27 00:57 G	40330199.36	40330199.54	40330199.73	0.0090	0.0044
Venus	105708-11-07 13:25 G	40330424.87	40330425.06	40330425.27	0.0090	0.0034
Moon	105708-11-27 18:57 G	40330445.04	40330445.29	40330445.54	0.0090	0.0008
Earth	105708-11-27 22:04 G	40330445.17	40330445.42	40330445.67	0.0090	0.0013 *
Venus	105709-06-21 01:54 G	40330650.38	40330650.58	40330650.80	0.0090	0.0024
Earth	105709-11-30 09:21 G	40330812.67	40330812.89	40330813.14	0.0090	0.0034
Moon	105709-11-30 11:45 G	40330812.77	40330812.99	40330813.24	0.0090	0.0039 *
Venus	105710-02-01 14:37 G	40330875.90	40330876.11	40330876.32	0.0090	0.0013



Venus	105710-09-15 03:21 G	40331101.43	40331101.64	40331101.86	0.0090	0.0003
Moon	105710-12-02 20:09 G	40331180.15	40331180.34	40331180.56	0.0090	0.0051
Earth	105710-12-02 20:52 G	40331180.18	40331180.37	40331180.58	0.0090	0.0055 *
Venus	105711-04-28 16:04 G	40331326.95	40331327.17	40331327.38	0.0090	0.0008
Moon	105711-12-05 07:54 G	40331547.73	40331547.83	40331547.96	0.0090	0.0080
Earth	105711-12-05 08:23 G	40331547.73	40331547.85	40331548.00	0.0090	0.0076 *
Venus	105711-12-10 04:18 G	40331552.48	40331552.68	40331552.90	0.0090	0.0019
Venus	105712-07-22 16:47 G	40331778.01	40331778.20	40331778.41	0.0090	0.0029
Venus	105713-03-05 05:16 G	40332003.54	40332003.72	40332003.93	0.0090	0.0040
Venus	105713-10-16 17:59 G	40332229.09	40332229.25	40332229.44	0.0090	0.0050
Venus	105714-05-30 06:42 G	40332454.63	40332454.78	40332454.95	0.0090	0.0060
Venus	105715-01-10 18:57 G	40332680.18	40332680.29	40332680.44	0.0090	0.0071
Venus	105715-08-24 07:40 G	40332905.75	40332905.82	40332905.93	0.0090	0.0081
Mars	105741-03-01 23:01 G	40342227.21	40342227.46	40342227.74	0.0089	0.0036
Mars	105743-01-24 11:16 G	40342920.78	40342920.97	40342921.22	0.0089	0.0058
Mercury	105768-07-03 04:33 G	40352212.68	40352212.69	40352212.71	0.0088	0.0087
Mercury	105768-09-29 05:59 G	40352300.70	40352300.75	40352300.80	0.0088	0.0080
Mercury	105768-12-26 06:57 G	40352388.73	40352388.79	40352388.87	0.0088	0.0074
Mercury	105769-03-24 08:23 G	40352476.77	40352476.85	40352476.94	0.0088	0.0067
Mercury	105769-06-20 09:35 G	40352564.82	40352564.90	40352565.01	0.0088	0.0060
Mercury	105769-09-16 11:01 G	40352652.86	40352652.96	40352653.07	0.0088	0.0053
Mercury	105769-12-13 12:13 G	40352740.91	40352741.01	40352741.13	0.0088	0.0047
Mercury	105770-03-11 13:25 G	40352828.95	40352829.06	40352829.19	0.0088	0.0040
Mercury	105770-06-07 14:52 G	40352917.00	40352917.12	40352917.25	0.0088	0.0033
Mercury	105770-09-03 16:18 G	40353005.05	40353005.18	40353005.30	0.0088	0.0026
Mercury	105770-11-30 17:30 G	40353093.10	40353093.23	40353093.36	0.0088	0.0019
Mercury	105771-02-26 18:42 G	40353181.15	40353181.28	40353181.42	0.0088	0.0013
Mercury	105771-05-25 20:09 G	40353269.20	40353269.34	40353269.47	0.0088	0.0006
Mercury	105771-08-21 21:21 G	40353357.26	40353357.39	40353357.52	0.0088	0.0001
Mercury	105771-11-17 22:33 G	40353445.31	40353445.44	40353445.57	0.0088	0.0008

Mercury	105772-02-13 23:45 G	40353533.36	40353533.49	40353533.63	0.0088	0.0015
Mercury	105772-05-12 01:11 G	40353621.42	40353621.55	40353621.68	0.0088	0.0021
Mercury	105772-08-08 02:23 G	40353709.47	40353709.60	40353709.72	0.0088	0.0028
Mercury	105772-11-04 03:21 G	40353797.53	40353797.64	40353797.77	0.0088	0.0035
Mercury	105773-01-31 04:47 G	40353885.59	40353885.70	40353885.82	0.0088	0.0041
Mercury	105773-04-29 05:59 G	40353973.65	40353973.75	40353973.87	0.0088	0.0048
Mercury	105773-07-26 07:11 G	40354061.71	40354061.80	40354061.91	0.0088	0.0055
Mercury	105773-10-22 08:37 G	40354149.77	40354149.86	40354149.95	0.0088	0.0061
Mercury	105774-01-18 09:35 G	40354237.83	40354237.90	40354237.99	0.0088	0.0068
Mercury	105774-04-16 10:47 G	40354325.90	40354325.95	40354326.03	0.0088	0.0075
Mercury	105774-07-13 12:13 G	40354413.97	40354414.01	40354414.06	0.0088	0.0081
Mercury	105774-10-09 13:40 G	40354502.07	40354502.07	40354502.07	0.0088	0.0088
Earth	105786-05-17 13:11 G	40358739.99	40358740.05	40358740.16	0.0088	0.0083
Moon	105786-05-17 15:35 G	40358740.04	40358740.15	40358740.28	0.0088	0.0078 *
Earth	105787-05-20 00:28 G	40359107.37	40359107.52	40359107.73	0.0088	0.0063
Moon	105787-05-20 00:13 G	40359107.38	40359107.51	40359107.70	0.0088	0.0068 *
Venus	105787-11-21 20:52 G	40359293.35	40359293.37	40359293.39	0.0088	0.0087
Moon	105788-05-21 10:47 G	40359474.73	40359474.95	40359475.22	0.0088	0.0039
Earth	105788-05-21 12:13 G	40359474.80	40359475.01	40359475.26	0.0088	0.0043 *
Venus	105788-07-04 10:18 G	40359518.82	40359518.93	40359519.03	0.0088	0.0077
Venus	105789-02-14 23:44 G	40359744.35	40359744.49	40359744.63	0.0088	0.0067
Earth	105789-05-23 23:59 G	40359842.26	40359842.50	40359842.76	0.0088	0.0023
Moon	105789-05-24 02:08 G	40359842.35	40359842.59	40359842.83	0.0088	0.0027 *
Venus	105789-09-28 13:11 G	40359969.88	40359970.05	40359970.22	0.0088	0.0057
Venus	105790-05-12 02:23 G	40360195.42	40360195.60	40360195.80	0.0088	0.0047
Moon	105790-05-26 08:37 G	40360209.59	40360209.86	40360210.12	0.0088	0.0003
Earth	105790-05-26 11:59 G	40360209.74	40360210.00	40360210.26	0.0088	0.0002 *
Venus	105790-12-23 15:49 G	40360420.96	40360421.16	40360421.37	0.0088	0.0037
Earth	105791-05-28 23:16 G	40360577.23	40360577.47	40360577.74	0.0088	0.0019
Moon	105791-05-29 02:52 G	40360577.38	40360577.62	40360577.89	0.0088	0.0014 *

Venus	105791-08-06 05:16 G	40360646.51	40360646.72	40360646.94	0.0088	0.0027
Venus	105792-03-18 18:56 G	40360872.07	40360872.29	40360872.51	0.0088	0.0017
Moon	105792-05-30 07:25 G	40360944.60	40360944.81	40360945.05	0.0088	0.0043
Earth	105792-05-30 11:16 G	40360944.74	40360944.97	40360945.21	0.0088	0.0038 *
Venus	105792-10-30 08:23 G	40361097.63	40361097.85	40361098.08	0.0088	0.0006
Earth	105793-06-01 22:18 G	40361312.26	40361312.43	40361312.65	0.0088	0.0059
Moon	105793-06-02 01:11 G	40361312.37	40361312.55	40361312.79	0.0088	0.0054 *
Venus	105793-06-12 21:49 G	40361323.18	40361323.41	40361323.63	0.0088	0.0004
Venus	105794-01-24 11:16 G	40361548.74	40361548.97	40361549.19	0.0088	0.0014
Moon	105794-06-04 08:52 G	40361679.81	40361679.87	40361679.97	0.0088	0.0083
Earth	105794-06-04 10:04 G	40361679.83	40361679.92	40361680.06	0.0088	0.0079 *
Venus	105794-09-07 00:13 G	40361774.31	40361774.51	40361774.74	0.0088	0.0025
Venus	105795-04-20 13:54 G	40361999.88	40362000.08	40362000.30	0.0088	0.0035
Venus	105795-12-02 03:06 G	40362225.46	40362225.63	40362225.84	0.0088	0.0045
Venus	105796-07-14 16:32 G	40362451.03	40362451.19	40362451.38	0.0088	0.0055
Venus	105797-02-25 05:59 G	40362676.62	40362676.75	40362676.92	0.0088	0.0065
Venus	105797-10-08 19:25 G	40362902.21	40362902.31	40362902.45	0.0088	0.0075
Venus	105798-05-22 08:52 G	40363127.84	40363127.87	40363127.94	0.0088	0.0085
Mars	105824-12-09 15:49 G	40372824.85	40372825.16	40372825.51	0.0088	0.0025
Mars	105826-11-06 00:13 G	40373521.49	40373521.51	40373521.60	0.0088	0.0088
Mercury	105852-11-30 04:47 G	40383042.64	40383042.70	40383042.79	0.0089	0.0083
Mercury	105853-02-26 08:23 G	40383130.76	40383130.85	40383130.98	0.0089	0.0073
Mercury	105853-05-25 12:28 G	40383218.89	40383219.02	40383219.17	0.0089	0.0062
Mercury	105853-08-21 16:04 G	40383307.02	40383307.17	40383307.34	0.0089	0.0051
Mercury	105853-11-17 19:54 G	40383395.16	40383395.33	40383395.51	0.0089	0.0041
Mercury	105854-02-13 23:30 G	40383483.31	40383483.48	40383483.68	0.0089	0.0031
Mercury	105854-05-13 03:35 G	40383571.46	40383571.65	40383571.84	0.0089	0.0020
Mercury	105854-08-09 07:11 G	40383659.61	40383659.80	40383660.00	0.0089	0.0009
Mercury	105854-11-05 11:01 G	40383747.76	40383747.96	40383748.16	0.0089	0.0001
Mercury	105855-02-01 14:52 G	40383835.92	40383836.12	40383836.31	0.0089	0.0012

Mercury	105855-04-30 18:28 G	40383924.08	40383924.27	40383924.46	0.0089	0.0022
Mercury	105855-07-27 22:18 G	40384012.25	40384012.43	40384012.61	0.0090	0.0033
Mercury	105855-10-24 01:54 G	40384100.42	40384100.58	40384100.76	0.0090	0.0044
Mercury	105856-01-20 05:30 G	40384188.59	40384188.73	40384188.90	0.0090	0.0055
Mercury	105856-04-17 09:20 G	40384276.77	40384276.89	40384277.04	0.0090	0.0065
Mercury	105856-07-14 12:56 G	40384364.96	40384365.04	40384365.16	0.0090	0.0076
Mercury	105856-10-10 17:01 G	40384453.17	40384453.21	40384453.27	0.0090	0.0086
Earth	105868-11-19 03:35 G	40388875.57	40388875.65	40388875.79	0.0090	0.0081
Moon	105868-11-19 05:59 G	40388875.71	40388875.75	40388875.86	0.0090	0.0086 *
Moon	105869-11-21 15:06 G	40389242.94	40389243.13	40389243.33	0.0090	0.0055
Earth	105869-11-21 15:35 G	40389242.98	40389243.15	40389243.36	0.0090	0.0060 *
Venus	105870-01-09 07:11 G	40389291.78	40389291.80	40389291.82	0.0090	0.0089
Venus	105870-08-22 19:40 G	40389517.23	40389517.32	40389517.43	0.0090	0.0079
Moon	105870-11-24 03:20 G	40389610.42	40389610.64	40389610.89	0.0090	0.0043
Earth	105870-11-24 03:20 G	40389610.43	40389610.64	40389610.89	0.0090	0.0039 *
Venus	105871-04-05 08:08 G	40389742.72	40389742.84	40389743.00	0.0090	0.0069
Venus	105871-11-16 21:06 G	40389968.22	40389968.38	40389968.55	0.0090	0.0058
Earth	105871-11-26 15:35 G	40389977.90	40389978.15	40389978.40	0.0090	0.0017
Moon	105871-11-26 16:47 G	40389977.96	40389978.20	40389978.45	0.0090	0.0013 *
Venus	105872-06-29 09:35 G	40390193.72	40390193.90	40390194.09	0.0090	0.0048
Moon	105872-11-28 00:28 G	40390345.26	40390345.52	40390345.78	0.0090	0.0001
Earth	105872-11-28 03:20 G	40390345.38	40390345.64	40390345.89	0.0090	0.0004 *
Venus	105873-02-09 22:04 G	40390419.24	40390419.42	40390419.63	0.0090	0.0038
Venus	105873-09-23 11:01 G	40390644.76	40390644.96	40390645.17	0.0090	0.0027
Earth	105873-11-30 14:37 G	40390712.87	40390713.11	40390713.36	0.0090	0.0025
Moon	105873-11-30 17:30 G	40390713.01	40390713.23	40390713.48	0.0090	0.0030 *
Venus	105874-05-06 23:30 G	40390870.27	40390870.48	40390870.70	0.0090	0.0017
Moon	105874-12-02 22:32 G	40391080.22	40391080.44	40391080.67	0.0090	0.0041
Earth	105874-12-03 02:23 G	40391080.39	40391080.60	40391080.82	0.0090	0.0046 *
Venus	105874-12-18 11:59 G	40391095.79	40391096.00	40391096.22	0.0090	0.0007

Venus	105875-08-01 00:42 G	40391321.31	40391321.53	40391321.74	0.0090	0.0004
Earth	105875-12-05 13:54 G	40391447.92	40391448.08	40391448.25	0.0090	0.0067
Moon	105875-12-05 16:47 G	40391448.06	40391448.20	40391448.37	0.0090	0.0072 *
Venus	105876-03-13 13:11 G	40391546.84	40391547.05	40391547.27	0.0090	0.0015
Venus	105876-10-25 01:54 G	40391772.37	40391772.58	40391772.79	0.0090	0.0025
Moon	105876-12-06 22:32 G	40391815.38	40391815.44	40391815.55	0.0090	0.0084
Earth	105876-12-07 01:25 G	40391815.52	40391815.56	40391815.61	0.0090	0.0088 *
Venus	105877-06-07 14:08 G	40391997.91	40391998.09	40391998.30	0.0090	0.0036
Venus	105878-01-19 02:52 G	40392223.44	40392223.62	40392223.81	0.0090	0.0046
Venus	105878-09-01 15:20 G	40392448.99	40392449.14	40392449.32	0.0090	0.0057
Venus	105879-04-15 03:49 G	40392674.54	40392674.66	40392674.82	0.0090	0.0067
Venus	105879-11-26 16:32 G	40392900.09	40392900.19	40392900.31	0.0090	0.0077
Venus	105880-07-09 04:47 G	40393125.68	40393125.70	40393125.77	0.0090	0.0088
Mars	105904-10-17 07:25 G	40401990.66	40401990.81	40401990.99	0.0089	0.0072
Mars	105906-09-10 19:54 G	40402684.07	40402684.33	40402684.63	0.0089	0.0021
Mercury	105933-04-01 03:35 G	40412383.64	40412383.65	40412383.68	0.0088	0.0086
Mercury	105933-06-28 05:01 G	40412471.66	40412471.71	40412471.77	0.0088	0.0079
Mercury	105933-09-24 06:13 G	40412559.70	40412559.76	40412559.84	0.0088	0.0073
Mercury	105933-12-21 07:25 G	40412647.74	40412647.81	40412647.91	0.0088	0.0066
Mercury	105934-03-19 08:52 G	40412735.78	40412735.87	40412735.97	0.0088	0.0059
Mercury	105934-06-15 10:18 G	40412823.82	40412823.93	40412824.04	0.0088	0.0052
Mercury	105934-09-11 11:16 G	40412911.87	40412911.97	40412912.10	0.0088	0.0046
Mercury	105934-12-08 12:42 G	40412999.92	40413000.03	40413000.16	0.0088	0.0039
Mercury	105935-03-06 14:08 G	40413087.97	40413088.09	40413088.21	0.0088	0.0032
Mercury	105935-06-02 15:20 G	40413176.02	40413176.14	40413176.27	0.0088	0.0025
Mercury	105935-08-29 16:32 G	40413264.07	40413264.19	40413264.33	0.0088	0.0019
Mercury	105935-11-25 17:59 G	40413352.12	40413352.25	40413352.38	0.0088	0.0012
Mercury	105936-02-21 19:11 G	40413440.17	40413440.30	40413440.44	0.0088	0.0005
Mercury	105936-05-19 20:37 G	40413528.22	40413528.36	40413528.49	0.0088	0.0003
Mercury	105936-08-15 21:49 G	40413616.28	40413616.41	40413616.54	0.0088	0.0009

Mercury	105936-11-11 23:01 G	40413704.33	40413704.46	40413704.59	0.0088	0.0015
Mercury	105937-02-08 00:13 G	40413792.39	40413792.51	40413792.64	0.0088	0.0022
Mercury	105937-05-07 01:25 G	40413880.44	40413880.56	40413880.69	0.0088	0.0029
Mercury	105937-08-03 02:37 G	40413968.50	40413968.61	40413968.74	0.0088	0.0036
Mercury	105937-10-30 04:04 G	40414056.55	40414056.67	40414056.79	0.0088	0.0042
Mercury	105938-01-26 05:16 G	40414144.61	40414144.72	40414144.83	0.0088	0.0049
Mercury	105938-04-24 06:28 G	40414232.67	40414232.77	40414232.88	0.0088	0.0056
Mercury	105938-07-21 07:54 G	40414320.74	40414320.83	40414320.92	0.0088	0.0062
Mercury	105938-10-17 08:52 G	40414408.80	40414408.87	40414408.96	0.0088	0.0069
Mercury	105939-01-13 10:04 G	40414496.87	40414496.92	40414497.00	0.0088	0.0076
Mercury	105939-04-11 11:30 G	40414584.94	40414584.98	40414585.03	0.0088	0.0082
Earth	105951-05-21 06:56 G	40419007.66	40419007.79	40419007.97	0.0088	0.0071
Moon	105951-05-21 08:37 G	40419007.70	40419007.86	40419008.04	0.0088	0.0067 *
Earth	105952-05-22 18:28 G	40419375.08	40419375.27	40419375.50	0.0088	0.0051
Moon	105952-05-22 18:42 G	40419375.10	40419375.28	40419375.50	0.0088	0.0054 *
Venus	105952-10-07 18:13 G	40419513.19	40419513.26	40419513.37	0.0088	0.0080
Venus	105953-05-21 07:40 G	40419738.70	40419738.82	40419738.97	0.0088	0.0070
Moon	105953-05-25 05:16 G	40419742.47	40419742.72	40419742.98	0.0088	0.0027
Earth	105953-05-25 06:13 G	40419742.53	40419742.76	40419743.02	0.0088	0.0031 *
Venus	105954-01-01 21:06 G	40419964.22	40419964.38	40419964.55	0.0088	0.0060
Earth	105954-05-27 17:59 G	40420110.00	40420110.25	40420110.52	0.0088	0.0010
Moon	105954-05-27 20:37 G	40420110.12	40420110.36	40420110.62	0.0088	0.0014 *
Venus	105954-08-15 10:32 G	40420189.76	40420189.94	40420190.13	0.0088	0.0050
Venus	105955-03-28 23:59 G	40420415.31	40420415.50	40420415.71	0.0088	0.0040
Moon	105955-05-30 02:23 G	40420477.34	40420477.60	40420477.86	0.0088	0.0013
Earth	105955-05-30 05:30 G	40420477.48	40420477.73	40420478.00	0.0088	0.0011 *
Venus	105955-11-09 13:25 G	40420640.86	40420641.06	40420641.28	0.0088	0.0030
Earth	105956-05-31 17:01 G	40420844.98	40420845.21	40420845.47	0.0088	0.0031
Moon	105956-05-31 20:52 G	40420845.13	40420845.37	40420845.62	0.0088	0.0027 *
Venus	105956-06-22 02:52 G	40420866.41	40420866.62	40420866.85	0.0088	0.0020

Venus	105957-02-02 16:18 G	40421091.97	40421092.18	40421092.41	0.0088	0.0010
Moon	105957-06-03 01:25 G	40421212.37	40421212.56	40421212.78	0.0088	0.0054
Earth	105957-06-03 04:47 G	40421212.51	40421212.70	40421212.93	0.0088	0.0051 *
Venus	105957-09-16 05:59 G	40421317.53	40421317.75	40421317.98	0.0088	0.0001
Venus	105958-04-29 19:25 G	40421543.09	40421543.31	40421543.54	0.0088	0.0011
Earth	105958-06-05 16:32 G	40421580.05	40421580.19	40421580.36	0.0088	0.0071
Moon	105958-06-05 18:56 G	40421580.15	40421580.29	40421580.48	0.0088	0.0068 *
Venus	105958-12-11 08:37 G	40421768.65	40421768.86	40421769.09	0.0088	0.0022
Venus	105959-07-24 22:04 G	40421994.22	40421994.42	40421994.64	0.0088	0.0032
Venus	105960-03-06 11:30 G	40422219.80	40422219.98	40422220.19	0.0088	0.0042
Venus	105960-10-18 00:56 G	40422445.37	40422445.54	40422445.74	0.0088	0.0052
Venus	105961-05-31 14:23 G	40422670.96	40422671.10	40422671.27	0.0088	0.0062
Venus	105962-01-12 03:35 G	40422896.54	40422896.65	40422896.80	0.0088	0.0072
Venus	105962-08-25 17:01 G	40423122.15	40423122.21	40423122.31	0.0088	0.0082
Mars	105988-07-23 17:59 G	40432586.06	40432586.25	40432586.52	0.0088	0.0067
Mars	105990-06-20 04:47 G	40433282.42	40433282.70	40433283.02	0.0088	0.0046

# 107TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 107th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	106017-08-28 02:08 G	40443213.52	40443213.59	40443213.69	0.0089	0.0081		
Mercury	106017-11-24 05:44 G	40443301.64	40443301.74	40443301.88	0.0089	0.0071		

Mercury	106018-02-20 09:49 G	40443389.77	40443389.91	40443390.06	0.0089	0.0060
Mercury	106018-05-19 13:25 G	40443477.91	40443478.06	40443478.23	0.0089	0.0049
Mercury	106018-08-15 17:16 G	40443566.05	40443566.22	40443566.40	0.0089	0.0039
Mercury	106018-11-11 20:52 G	40443654.19	40443654.37	40443654.56	0.0089	0.0029
Mercury	106019-02-08 00:42 G	40443742.34	40443742.53	40443742.73	0.0089	0.0018
Mercury	106019-05-07 04:32 G	40443830.50	40443830.69	40443830.89	0.0089	0.0007
Mercury	106019-08-03 08:23 G	40443918.65	40443918.85	40443919.04	0.0089	0.0003
Mercury	106019-10-30 11:59 G	40444006.81	40444007.00	40444007.20	0.0089	0.0014
Mercury	106020-01-26 15:35 G	40444094.97	40444095.15	40444095.35	0.0089	0.0025
Mercury	106020-04-23 19:25 G	40444183.14	40444183.31	40444183.50	0.0089	0.0035
Mercury	106020-07-20 23:01 G	40444271.31	40444271.46	40444271.64	0.0089	0.0046
Mercury	106020-10-17 03:06 G	40444359.48	40444359.63	40444359.78	0.0089	0.0056
Mercury	106021-01-13 06:28 G	40444447.66	40444447.77	40444447.92	0.0089	0.0067
Mercury	106021-04-11 10:04 G	40444535.85	40444535.92	40444536.04	0.0090	0.0078
Mercury	106021-07-08 14:08 G	40444624.07	40444624.09	40444624.14	0.0090	0.0088
Moon	106032-11-19 05:30 G	40448775.68	40448775.73	40448775.82	0.0090	0.0086
Earth	106032-11-19 09:35 G	40448775.90	40448775.90	40448775.91	0.0090	0.0090
Earth	106033-11-21 20:52 G	40449143.23	40449143.37	40449143.56	0.0090	0.0069
Moon	106033-11-21 23:30 G	40449143.36	40449143.48	40449143.66	0.0090	0.0073 *
Moon	106034-11-24 06:42 G	40449510.58	40449510.78	40449511.01	0.0090	0.0044
Earth	106034-11-24 08:52 G	40449510.68	40449510.87	40449511.11	0.0090	0.0048 *
Venus	106034-11-25 05:01 G	40449511.62	40449511.71	40449511.79	0.0090	0.0082
Venus	106035-07-08 17:16 G	40449737.10	40449737.22	40449737.36	0.0090	0.0072
Earth	106035-11-26 21:06 G	40449878.14	40449878.38	40449878.63	0.0090	0.0026
Moon	106035-11-26 22:04 G	40449878.17	40449878.42	40449878.67	0.0090	0.0030 *
Venus	106036-02-19 05:44 G	40449962.60	40449962.74	40449962.91	0.0090	0.0062
Venus	106036-10-01 18:28 G	40450188.11	40450188.27	40450188.46	0.0090	0.0052
Earth	106036-11-28 08:37 G	40450245.61	40450245.86	40450246.12	0.0090	0.0005
Moon	106036-11-28 09:20 G	40450245.65	40450245.89	40450246.14	0.0090	0.0002 *
Venus	106037-05-15 07:11 G	40450413.62	40450413.80	40450414.00	0.0090	0.0041



Moon	106037-11-30 18:42 G	40450613.03	40450613.28	40450613.55	0.0090	0.0013
Earth	106037-11-30 20:08 G	40450613.10	40450613.34	40450613.60	0.0090	0.0017 *
Venus	106037-12-26 19:40 G	40450639.13	40450639.32	40450639.54	0.0090	0.0031
Venus	106038-08-09 08:37 G	40450864.65	40450864.86	40450865.07	0.0090	0.0020
Earth	106038-12-03 07:25 G	40450980.60	40450980.81	40450981.06	0.0090	0.0038
Moon	106038-12-03 10:32 G	40450980.73	40450980.94	40450981.17	0.0090	0.0042 *
Venus	106039-03-22 21:06 G	40451090.17	40451090.38	40451090.60	0.0090	0.0010
Venus	106039-11-03 09:49 G	40451315.69	40451315.91	40451316.12	0.0090	0.0002
Moon	106039-12-05 16:04 G	40451347.97	40451348.17	40451348.37	0.0090	0.0055
Earth	106039-12-05 19:11 G	40451348.12	40451348.30	40451348.51	0.0090	0.0059 *
Venus	106040-06-15 22:18 G	40451541.21	40451541.43	40451541.64	0.0090	0.0011
Earth	106040-12-07 06:13 G	40451715.68	40451715.76	40451715.91	0.0090	0.0080
Moon	106040-12-07 10:04 G	40451715.85	40451715.92	40451716.02	0.0090	0.0084 *
Venus	106041-01-27 10:32 G	40451766.74	40451766.94	40451767.16	0.0090	0.0022
Venus	106041-09-09 23:16 G	40451992.28	40451992.47	40451992.68	0.0090	0.0032
Venus	106042-04-23 11:30 G	40452217.81	40452217.98	40452218.19	0.0090	0.0043
Venus	106042-12-05 00:13 G	40452443.35	40452443.51	40452443.69	0.0090	0.0053
Venus	106043-07-18 12:42 G	40452668.89	40452669.03	40452669.19	0.0090	0.0063
Venus	106044-02-29 00:56 G	40452894.44	40452894.54	40452894.69	0.0090	0.0074
Venus	106044-10-11 13:40 G	40453120.02	40453120.07	40453120.17	0.0090	0.0084
Mars	106070-04-26 04:04 G	40462447.39	40462447.67	40462447.95	0.0089	0.0015
Mars	106072-03-19 16:32 G	40463141.08	40463141.19	40463141.35	0.0089	0.0078
Mercury	106097-12-27 02:52 G	40472554.60	40472554.62	40472554.66	0.0088	0.0085
Mercury	106098-03-25 04:18 G	40472642.62	40472642.68	40472642.74	0.0088	0.0078
Mercury	106098-06-21 05:30 G	40472730.66	40472730.73	40472730.81	0.0088	0.0071
Mercury	106098-09-17 06:56 G	40472818.70	40472818.79	40472818.88	0.0088	0.0064
Mercury	106098-12-14 08:08 G	40472906.75	40472906.84	40472906.95	0.0088	0.0058
Mercury	106099-03-12 09:20 G	40472994.79	40472994.89	40472995.01	0.0088	0.0051
Mercury	106099-06-08 10:47 G	40473082.84	40473082.95	40473083.07	0.0088	0.0044
Mercury	106099-09-04 12:13 G	40473170.89	40473171.01	40473171.13	0.0088	0.0037

Mercury	106099-12-01 13:11 G	40473258.94	40473259.05	40473259.19	0.0088	0.0031
Mercury	106100-02-27 14:37 G	40473346.99	40473347.11	40473347.24	0.0088	0.0024
Mercury	106100-05-26 16:04 G	40473435.04	40473435.17	40473435.30	0.0088	0.0017
Mercury	106100-08-22 17:16 G	40473523.09	40473523.22	40473523.35	0.0088	0.0010
Mercury	106100-11-18 18:28 G	40473611.14	40473611.27	40473611.41	0.0088	0.0004
Mercury	106101-02-14 19:54 G	40473699.19	40473699.33	40473699.46	0.0088	0.0004
Mercury	106101-05-13 21:06 G	40473787.25	40473787.38	40473787.51	0.0088	0.0010
Mercury	106101-08-09 22:18 G	40473875.30	40473875.43	40473875.56	0.0088	0.0017
Mercury	106101-11-05 23:30 G	40473963.36	40473963.48	40473963.61	0.0088	0.0024
Mercury	106102-02-02 00:56 G	40474051.41	40474051.54	40474051.66	0.0088	0.0030
Mercury	106102-05-01 01:54 G	40474139.47	40474139.58	40474139.71	0.0088	0.0037
Mercury	106102-07-28 03:06 G	40474227.53	40474227.63	40474227.76	0.0088	0.0044
Mercury	106102-10-24 04:32 G	40474315.59	40474315.69	40474315.80	0.0088	0.0050
Mercury	106103-01-20 05:44 G	40474403.65	40474403.74	40474403.84	0.0088	0.0057
Mercury	106103-04-18 06:56 G	40474491.71	40474491.79	40474491.89	0.0088	0.0064
Mercury	106103-07-15 08:23 G	40474579.77	40474579.85	40474579.93	0.0088	0.0070
Mercury	106103-10-11 09:20 G	40474667.84	40474667.89	40474667.96	0.0088	0.0077
Mercury	106104-01-07 10:32 G	40474755.92	40474755.94	40474755.99	0.0088	0.0084
Moon	106115-05-21 10:04 G	40478907.83	40478907.92	40478908.04	0.0088	0.0080
Earth	106115-05-21 12:56 G	40478907.96	40478908.04	40478908.19	0.0088	0.0079 *
Earth	106116-05-23 00:42 G	40479275.36	40479275.53	40479275.74	0.0088	0.0059
Moon	106116-05-23 03:49 G	40479275.46	40479275.66	40479275.87	0.0088	0.0056 *
Venus	106117-01-10 02:08 G	40479507.54	40479507.59	40479507.68	0.0088	0.0083
Moon	106117-05-25 10:32 G	40479642.73	40479642.94	40479643.18	0.0088	0.0041
Earth	106117-05-25 12:13 G	40479642.80	40479643.01	40479643.27	0.0088	0.0039 *
Venus	106117-08-23 15:35 G	40479733.04	40479733.15	40479733.29	0.0088	0.0073
Venus	106118-04-06 05:16 G	40479958.57	40479958.72	40479958.89	0.0088	0.0063
Earth	106118-05-28 00:13 G	40480010.25	40480010.51	40480010.76	0.0088	0.0018
Moon	106118-05-27 23:59 G	40480010.25	40480010.50	40480010.78	0.0088	0.0017 *
Venus	106118-11-17 18:28 G	40480184.11	40480184.27	40480184.47	0.0088	0.0053

Earth	106119-05-30 11:44 G	40480377.73	40480377.99	40480378.26	0.0088	0.0003
Moon	106119-05-30 12:42 G	40480377.78	40480378.03	40480378.29	0.0088	0.0001 *
Venus	106119-07-01 07:54 G	40480409.65	40480409.83	40480410.04	0.0088	0.0043
Venus	106120-02-11 21:20 G	40480635.20	40480635.39	40480635.61	0.0088	0.0033
Moon	106120-05-31 21:06 G	40480745.14	40480745.38	40480745.65	0.0088	0.0025
Earth	106120-05-31 23:16 G	40480745.23	40480745.47	40480745.73	0.0088	0.0023 *
Venus	106120-09-24 11:01 G	40480860.75	40480860.96	40480861.18	0.0088	0.0022
Venus	106121-05-08 00:28 G	40481086.30	40481086.52	40481086.75	0.0088	0.0012
Earth	106121-06-03 11:01 G	40481112.74	40481112.96	40481113.20	0.0088	0.0043
Moon	106121-06-03 14:08 G	40481112.88	40481113.09	40481113.33	0.0088	0.0042 *
Venus	106121-12-19 14:08 G	40481311.86	40481312.09	40481312.31	0.0088	0.0002
Moon	106122-06-05 19:11 G	40481480.14	40481480.30	40481480.49	0.0088	0.0065
Earth	106122-06-05 23:01 G	40481480.28	40481480.46	40481480.64	0.0088	0.0063 *
Venus	106122-08-02 03:20 G	40481537.42	40481537.64	40481537.87	0.0088	0.0009
Venus	106123-03-15 17:01 G	40481762.99	40481763.21	40481763.44	0.0088	0.0018
Earth	106123-06-08 10:04 G	40481847.87	40481847.92	40481848.03	0.0088	0.0084
Moon	106123-06-08 13:54 G	40481848.01	40481848.08	40481848.21	0.0088	0.0081 *
Venus	106123-10-27 06:28 G	40481988.56	40481988.77	40481988.99	0.0088	0.0029
Venus	106124-06-08 19:54 G	40482214.14	40482214.33	40482214.54	0.0088	0.0039
Venus	106125-01-20 09:20 G	40482439.71	40482439.89	40482440.08	0.0088	0.0049
Venus	106125-09-02 22:47 G	40482665.29	40482665.45	40482665.63	0.0088	0.0059
Venus	106126-04-16 12:28 G	40482890.89	40482891.02	40482891.16	0.0088	0.0069
Venus	106126-11-28 01:54 G	40483116.49	40483116.58	40483116.68	0.0088	0.0079
Mars	106154-02-01 08:23 G	40493043.51	40493043.85	40493044.20	0.0088	0.0004
Mercury	106182-02-26 19:54 G	40503296.32	40503296.33	40503296.37	0.0089	0.0089
Mercury	106182-05-25 23:30 G	40503384.41	40503384.48	40503384.59	0.0089	0.0079
Mercury	106182-08-22 03:06 G	40503472.53	40503472.63	40503472.78	0.0089	0.0069
Mercury	106182-11-18 07:11 G	40503560.66	40503560.80	40503560.95	0.0089	0.0058
Mercury	106183-02-14 10:47 G	40503648.80	40503648.95	40503649.13	0.0089	0.0047
Mercury	106183-05-13 14:37 G	40503736.94	40503737.11	40503737.29	0.0089	0.0037

Mercury	106183-08-09 18:13 G	40503825.08	40503825.26	40503825.46	0.0089	0.0027
Mercury	106183-11-05 22:04 G	40503913.23	40503913.42	40503913.62	0.0089	0.0016
Mercury	106184-02-02 01:54 G	40504001.39	40504001.58	40504001.78	0.0089	0.0005
Mercury	106184-04-30 05:44 G	40504089.54	40504089.74	40504089.93	0.0089	0.0005
Mercury	106184-07-27 09:20 G	40504177.70	40504177.89	40504178.09	0.0089	0.0016
Mercury	106184-10-23 12:56 G	40504265.86	40504266.04	40504266.24	0.0089	0.0026
Mercury	106185-01-19 16:47 G	40504354.03	40504354.20	40504354.38	0.0089	0.0037
Mercury	106185-04-17 20:23 G	40504442.20	40504442.35	40504442.53	0.0089	0.0048
Mercury	106185-07-15 00:13 G	40504530.37	40504530.51	40504530.67	0.0089	0.0058
Mercury	106185-10-11 03:49 G	40504618.55	40504618.66	40504618.80	0.0089	0.0069
Mercury	106186-01-07 07:54 G	40504706.74	40504706.83	40504706.92	0.0089	0.0079
Mercury	106186-04-05 11:44 G	40504794.99	40504794.99	40504794.99	0.0089	0.0089
Moon	106197-11-21 23:44 G	40509043.37	40509043.49	40509043.66	0.0090	0.0075
Earth	106197-11-22 02:52 G	40509043.52	40509043.62	40509043.77	0.0090	0.0078 *
Earth	106198-11-24 14:52 G	40509410.94	40509411.12	40509411.34	0.0090	0.0057
Moon	106198-11-24 18:28 G	40509411.11	40509411.27	40509411.48	0.0090	0.0061 *
Venus	106199-02-27 13:40 G	40509506.03	40509506.07	40509506.16	0.0090	0.0086
Venus	106199-10-11 02:52 G	40509731.51	40509731.62	40509731.74	0.0090	0.0075
Moon	106199-11-26 23:44 G	40509778.27	40509778.49	40509778.74	0.0090	0.0032
Earth	106199-11-27 03:06 G	40509778.40	40509778.63	40509778.87	0.0090	0.0035 *
Venus	106200-05-24 15:20 G	40509957.01	40509957.14	40509957.30	0.0090	0.0065
Earth	106200-11-29 14:52 G	40510145.88	40510146.12	40510146.38	0.0090	0.0014
Moon	106200-11-29 17:44 G	40510145.98	40510146.24	40510146.50	0.0090	0.0017 *
Venus	106201-01-05 03:49 G	40510182.51	40510182.66	40510182.85	0.0090	0.0055
Venus	106201-08-18 16:47 G	40510408.02	40510408.20	40510408.40	0.0090	0.0044
Moon	106201-12-02 00:42 G	40510513.30	40510513.53	40510513.79	0.0090	0.0012
Earth	106201-12-02 02:52 G	40510513.37	40510513.62	40510513.87	0.0090	0.0008 *
Venus	106202-04-01 05:16 G	40510633.54	40510633.72	40510633.94	0.0090	0.0034
Venus	106202-11-12 18:13 G	40510859.05	40510859.26	40510859.47	0.0090	0.0023
Moon	106202-12-04 14:23 G	40510880.86	40510881.10	40510881.36	0.0090	0.0026

Earth	106202-12-04 14:23 G	40510880.87	40510881.10	40510881.35	0.0090	0.0029 *
Venus	106203-06-26 06:42 G	40511084.57	40511084.78	40511085.00	0.0090	0.0013
Earth	106203-12-07 02:08 G	40511248.38	40511248.59	40511248.80	0.0090	0.0050
Moon	106203-12-07 02:37 G	40511248.43	40511248.61	40511248.83	0.0090	0.0054 *
Venus	106204-02-06 19:25 G	40511310.09	40511310.31	40511310.52	0.0090	0.0003
Venus	106204-09-19 07:54 G	40511535.62	40511535.83	40511536.05	0.0090	0.0008
Moon	106204-12-08 11:01 G	40511615.81	40511615.96	40511616.15	0.0090	0.0068
Earth	106204-12-08 12:56 G	40511615.91	40511616.04	40511616.22	0.0090	0.0072 *
Venus	106205-05-02 20:23 G	40511761.15	40511761.35	40511761.57	0.0090	0.0019
Venus	106205-12-14 08:52 G	40511986.67	40511986.87	40511987.08	0.0090	0.0029
Venus	106206-07-27 21:20 G	40512212.20	40512212.39	40512212.59	0.0090	0.0039
Venus	106207-03-10 09:35 G	40512437.74	40512437.90	40512438.10	0.0090	0.0050
Venus	106207-10-21 22:18 G	40512663.29	40512663.43	40512663.60	0.0090	0.0060
Venus	106208-06-03 10:47 G	40512888.83	40512888.95	40512889.10	0.0090	0.0070
Venus	106209-01-14 23:30 G	40513114.39	40513114.48	40513114.58	0.0090	0.0080
Mars	106233-12-11 15:20 G	40522210.92	40522211.14	40522211.38	0.0089	0.0051
Mars	106235-11-05 01:54 G	40522904.34	40522904.58	40522904.85	0.0089	0.0042
Mercury	106262-09-25 01:54 G	40532725.56	40532725.58	40532725.63	0.0088	0.0084
Mercury	106262-12-22 03:20 G	40532813.59	40532813.64	40532813.71	0.0088	0.0077
Mercury	106263-03-20 04:47 G	40532901.63	40532901.70	40532901.79	0.0088	0.0070
Mercury	106263-06-16 06:13 G	40532989.67	40532989.76	40532989.85	0.0088	0.0063
Mercury	106263-09-12 07:25 G	40533077.71	40533077.81	40533077.92	0.0088	0.0056
Mercury	106263-12-09 08:37 G	40533165.76	40533165.86	40533165.98	0.0088	0.0050
Mercury	106264-03-06 10:04 G	40533253.81	40533253.92	40533254.04	0.0088	0.0043
Mercury	106264-06-02 11:16 G	40533341.86	40533341.97	40533342.10	0.0088	0.0036
Mercury	106264-08-29 12:42 G	40533429.91	40533430.03	40533430.16	0.0088	0.0029
Mercury	106264-11-25 13:54 G	40533517.96	40533518.08	40533518.21	0.0088	0.0022
Mercury	106265-02-21 15:06 G	40533606.01	40533606.13	40533606.27	0.0088	0.0016
Mercury	106265-05-20 16:32 G	40533694.06	40533694.19	40533694.32	0.0088	0.0009
Mercury	106265-08-16 17:44 G	40533782.11	40533782.24	40533782.38	0.0088	0.0003

Mercury	106265-11-12 19:11 G	40533870.16	40533870.30	40533870.43	0.0088	0.0005
Mercury	106266-02-08 20:23 G	40533958.22	40533958.35	40533958.48	0.0088	0.0012
Mercury	106266-05-07 21:35 G	40534046.27	40534046.40	40534046.53	0.0088	0.0018
Mercury	106266-08-03 22:47 G	40534134.33	40534134.45	40534134.58	0.0088	0.0025
Mercury	106266-10-30 23:59 G	40534222.38	40534222.50	40534222.63	0.0088	0.0032
Mercury	106267-01-27 01:11 G	40534310.44	40534310.55	40534310.68	0.0088	0.0039
Mercury	106267-04-25 02:37 G	40534398.50	40534398.61	40534398.73	0.0088	0.0045
Mercury	106267-07-22 03:49 G	40534486.56	40534486.66	40534486.77	0.0088	0.0052
Mercury	106267-10-18 05:01 G	40534574.62	40534574.71	40534574.82	0.0088	0.0059
Mercury	106268-01-14 06:28 G	40534662.68	40534662.77	40534662.86	0.0088	0.0065
Mercury	106268-04-11 07:25 G	40534750.75	40534750.81	40534750.90	0.0088	0.0072
Mercury	106268-07-08 08:37 G	40534838.82	40534838.86	40534838.93	0.0088	0.0079
Mercury	106268-10-04 10:04 G	40534926.90	40534926.92	40534926.96	0.0088	0.0085
Earth	106279-05-21 19:54 G	40538808.32	40538808.33	40538808.41	0.0088	0.0087
Moon	106279-05-21 22:47 G	40538808.43	40538808.45	40538808.53	0.0088	0.0086
Moon	106280-05-23 04:32 G	40539175.54	40539175.69	40539175.87	0.0088	0.0068
Earth	106280-05-23 08:08 G	40539175.68	40539175.84	40539176.01	0.0088	0.0066 *
Venus	106281-04-14 10:47 G	40539501.93	40539501.95	40539502.03	0.0088	0.0086
Earth	106281-05-25 19:25 G	40539543.09	40539543.31	40539543.54	0.0088	0.0046
Moon	106281-05-25 22:47 G	40539543.25	40539543.45	40539543.70	0.0088	0.0045 *
Venus	106281-11-25 23:59 G	40539727.42	40539727.50	40539727.64	0.0088	0.0076
Moon	106282-05-28 03:49 G	40539910.42	40539910.66	40539910.91	0.0088	0.0027
Earth	106282-05-28 06:56 G	40539910.55	40539910.79	40539911.05	0.0088	0.0026 *
Venus	106282-07-09 13:25 G	40539952.94	40539953.06	40539953.23	0.0088	0.0066
Venus	106283-02-20 02:52 G	40540178.47	40540178.62	40540178.82	0.0088	0.0056
Earth	106283-05-30 18:28 G	40540278.01	40540278.27	40540278.53	0.0088	0.0006
Moon	106283-05-30 21:20 G	40540278.13	40540278.39	40540278.66	0.0088	0.0003 *
Venus	106283-10-03 16:18 G	40540404.01	40540404.18	40540404.39	0.0088	0.0046
Venus	106284-05-16 05:44 G	40540629.55	40540629.74	40540629.96	0.0088	0.0036
Moon	106284-06-01 04:32 G	40540645.45	40540645.69	40540645.95	0.0088	0.0013

Earth	106284-06-01 05:59 G	40540645.50	40540645.75	40540646.02	0.0088	0.0015	*
Venus	106284-12-27 19:11 G	40540855.10	40540855.30	40540855.53	0.0088	0.0026	
Moon	106285-06-03 17:30 G	40541012.99	40541013.23	40541013.48	0.0088	0.0036	
Earth	106285-06-03 17:44 G	40541013.00	40541013.24	40541013.48	0.0088	0.0035	*
Venus	106285-08-10 08:52 G	40541080.65	40541080.87	40541081.09	0.0088	0.0015	
Venus	106286-03-23 22:32 G	40541306.21	40541306.44	40541306.66	0.0088	0.0005	
Earth	106286-06-06 04:47 G	40541380.52	40541380.70	40541380.93	0.0088	0.0056	
Moon	106286-06-06 05:59 G	40541380.56	40541380.75	40541380.96	0.0088	0.0054	*
Venus	106286-11-04 11:44 G	40541531.77	40541531.99	40541532.22	0.0088	0.0006	
Moon	106287-06-08 14:08 G	40541747.98	40541748.09	40541748.24	0.0088	0.0077	
Earth	106287-06-08 16:32 G	40541748.09	40541748.19	40541748.35	0.0088	0.0076	*
Venus	106287-06-18 01:11 G	40541757.34	40541757.55	40541757.78	0.0088	0.0016	
Venus	106288-01-29 14:37 G	40541982.90	40541983.11	40541983.33	0.0088	0.0026	
Venus	106288-09-11 04:04 G	40542208.47	40542208.67	40542208.89	0.0088	0.0036	
Venus	106289-04-24 17:44 G	40542434.06	40542434.24	40542434.44	0.0088	0.0046	
Venus	106289-12-06 07:11 G	40542659.64	40542659.80	40542659.98	0.0088	0.0056	
Venus	106290-07-19 20:37 G	40542885.22	40542885.36	40542885.52	0.0088	0.0066	
Venus	106291-03-02 10:18 G	40543110.82	40543110.93	40543111.04	0.0088	0.0076	
Venus	106291-10-13 23:44 G	40543336.46	40543336.49	40543336.54	0.0088	0.0086	
Jupiter	106314-04-19 04:18 G	40551558.15	40551558.68	40551559.25	0.0088	0.0021	
Mars	106317-09-16 11:59 G	40552804.71	40552805.00	40552805.34	0.0088	0.0037	
Mars	106319-08-13 22:47 G	40553501.30	40553501.45	40553501.66	0.0088	0.0076	
Mercury	106346-11-25 17:44 G	40563467.20	40563467.24	40563467.31	0.0089	0.0086	
Mercury	106347-02-21 21:20 G	40563555.31	40563555.39	40563555.52	0.0089	0.0076	
Mercury	106347-05-21 01:25 G	40563643.43	40563643.56	40563643.70	0.0089	0.0065	
Mercury	106347-08-17 05:01 G	40563731.56	40563731.71	40563731.87	0.0089	0.0054	
Mercury	106347-11-13 08:37 G	40563819.70	40563819.86	40563820.04	0.0089	0.0044	
Mercury	106348-02-09 12:28 G	40563907.85	40563908.02	40563908.21	0.0089	0.0034	
Mercury	106348-05-07 16:04 G	40563995.99	40563996.17	40563996.37	0.0089	0.0024	
Mercury	106348-08-03 20:08 G	40564084.14	40564084.34	40564084.53	0.0089	0.0013	

Mercury	106348-10-30 23:44 G	40564172.30	40564172.49	40564172.69	0.0089	0.0002
Mercury	106349-01-27 03:20 G	40564260.45	40564260.64	40564260.84	0.0089	0.0008
Mercury	106349-04-25 07:11 G	40564348.61	40564348.80	40564348.99	0.0089	0.0019
Mercury	106349-07-22 10:47 G	40564436.77	40564436.95	40564437.14	0.0089	0.0029
Mercury	106349-10-18 14:37 G	40564524.94	40564525.11	40564525.29	0.0089	0.0040
Mercury	106350-01-14 17:59 G	40564613.11	40564613.25	40564613.43	0.0089	0.0051
Mercury	106350-04-12 22:04 G	40564701.28	40564701.42	40564701.57	0.0089	0.0061
Mercury	106350-07-10 01:25 G	40564789.46	40564789.56	40564789.70	0.0089	0.0072
Mercury	106350-10-06 05:30 G	40564877.66	40564877.73	40564877.82	0.0089	0.0082
Earth	106361-11-23 10:04 G	40568943.86	40568943.92	40568944.00	0.0090	0.0086
Moon	106361-11-23 09:49 G	40568943.91	40568943.91	40568943.94	0.0090	0.0089 *
Moon	106362-11-25 20:08 G	40569311.16	40569311.34	40569311.54	0.0090	0.0062
Earth	106362-11-25 21:49 G	40569311.24	40569311.41	40569311.59	0.0090	0.0065 *
Venus	106363-06-02 23:16 G	40569500.46	40569500.47	40569500.53	0.0090	0.0089
Earth	106363-11-28 09:20 G	40569678.68	40569678.89	40569679.13	0.0090	0.0044
Moon	106363-11-28 12:28 G	40569678.81	40569679.02	40569679.23	0.0090	0.0046 *
Venus	106364-01-14 12:28 G	40569725.92	40569726.02	40569726.13	0.0090	0.0078
Venus	106364-08-27 00:56 G	40569951.42	40569951.54	40569951.70	0.0090	0.0068
Moon	106364-11-29 18:28 G	40570046.02	40570046.27	40570046.52	0.0090	0.0019
Earth	106364-11-29 21:20 G	40570046.15	40570046.39	40570046.65	0.0090	0.0023 *
Venus	106365-04-09 13:25 G	40570176.92	40570177.06	40570177.25	0.0090	0.0058
Venus	106365-11-21 02:23 G	40570402.43	40570402.60	40570402.79	0.0090	0.0047
Earth	106365-12-02 09:20 G	40570413.64	40570413.89	40570414.15	0.0090	0.0001
Moon	106365-12-02 12:56 G	40570413.79	40570414.04	40570414.30	0.0090	0.0005 *
Venus	106366-07-04 14:52 G	40570627.94	40570628.12	40570628.33	0.0090	0.0037
Moon	106366-12-04 18:13 G	40570781.02	40570781.26	40570781.50	0.0090	0.0023
Earth	106366-12-04 21:06 G	40570781.14	40570781.38	40570781.64	0.0090	0.0021 *
Venus	106367-02-15 03:35 G	40570853.46	40570853.65	40570853.87	0.0090	0.0027
Venus	106367-09-28 16:32 G	40571078.98	40571079.19	40571079.41	0.0090	0.0016
Earth	106367-12-07 08:37 G	40571148.64	40571148.86	40571149.09	0.0090	0.0042



Moon	106367-12-07 11:01 G	40571148.75	40571148.96	40571149.22	0.0090	0.0039 *
Venus	106368-05-11 05:16 G	40571304.50	40571304.72	40571304.93	0.0090	0.0006
Moon	106368-12-08 18:13 G	40571516.12	40571516.26	40571516.45	0.0090	0.0067
Earth	106368-12-08 20:08 G	40571516.18	40571516.34	40571516.54	0.0090	0.0063 *
Venus	106368-12-22 17:44 G	40571530.03	40571530.24	40571530.46	0.0090	0.0005
Venus	106369-08-05 05:59 G	40571755.55	40571755.75	40571755.97	0.0090	0.0016
Moon	106369-12-11 07:25 G	40571883.73	40571883.81	40571883.95	0.0090	0.0082
Earth	106369-12-11 07:54 G	40571883.75	40571883.83	40571883.92	0.0090	0.0084 *
Venus	106370-03-18 18:42 G	40571981.08	40571981.28	40571981.49	0.0090	0.0026
Venus	106370-10-30 07:25 G	40572206.61	40572206.81	40572207.01	0.0090	0.0036
Venus	106371-06-12 19:25 G	40572432.15	40572432.31	40572432.52	0.0090	0.0047
Venus	106372-01-24 08:08 G	40572657.69	40572657.84	40572658.02	0.0090	0.0057
Venus	106372-09-05 20:52 G	40572883.24	40572883.37	40572883.52	0.0090	0.0067
Venus	106373-04-19 09:20 G	40573108.79	40573108.89	40573109.01	0.0090	0.0077
Venus	106373-11-30 21:20 G	40573334.37	40573334.39	40573334.47	0.0090	0.0088
Mars	106397-07-28 02:37 G	40581974.57	40581974.61	40581974.71	0.0089	0.0087
Mars	106399-06-21 13:54 G	40582667.80	40582668.08	40582668.37	0.0089	0.0007
Mercury	106427-06-23 01:25 G	40592896.52	40592896.56	40592896.62	0.0088	0.0082
Mercury	106427-09-19 02:52 G	40592984.56	40592984.62	40592984.69	0.0088	0.0075
Mercury	106427-12-16 04:18 G	40593072.60	40593072.68	40593072.76	0.0088	0.0068
Mercury	106428-03-13 05:16 G	40593160.64	40593160.72	40593160.83	0.0088	0.0062
Mercury	106428-06-09 06:42 G	40593248.68	40593248.78	40593248.89	0.0088	0.0055
Mercury	106428-09-05 07:54 G	40593336.73	40593336.83	40593336.95	0.0088	0.0048
Mercury	106428-12-02 09:20 G	40593424.78	40593424.89	40593425.01	0.0088	0.0041
Mercury	106429-02-28 10:47 G	40593512.83	40593512.95	40593513.07	0.0088	0.0034
Mercury	106429-05-27 11:59 G	40593600.88	40593601.00	40593601.13	0.0088	0.0027
Mercury	106429-08-23 13:11 G	40593688.93	40593689.05	40593689.19	0.0088	0.0021
Mercury	106429-11-19 14:37 G	40593776.98	40593777.11	40593777.24	0.0088	0.0014
Mercury	106430-02-15 15:49 G	40593865.03	40593865.16	40593865.30	0.0088	0.0007
Mercury	106430-05-14 17:16 G	40593953.08	40593953.22	40593953.35	0.0088	0.0003

Mercury	106430-08-10 18:28 G	40594041.14	40594041.27	40594041.40	0.0088	0.0006
Mercury	106430-11-06 19:40 G	40594129.19	40594129.32	40594129.45	0.0088	0.0013
Mercury	106431-02-02 20:52 G	40594217.25	40594217.37	40594217.50	0.0088	0.0020
Mercury	106431-05-01 22:04 G	40594305.30	40594305.42	40594305.55	0.0088	0.0027
Mercury	106431-07-28 23:30 G	40594393.36	40594393.48	40594393.60	0.0088	0.0033
Mercury	106431-10-25 00:42 G	40594481.42	40594481.53	40594481.65	0.0088	0.0040
Mercury	106432-01-21 01:54 G	40594569.48	40594569.58	40594569.70	0.0088	0.0047
Mercury	106432-04-18 03:06 G	40594657.54	40594657.63	40594657.74	0.0088	0.0054
Mercury	106432-07-15 04:32 G	40594745.60	40594745.69	40594745.79	0.0088	0.0060
Mercury	106432-10-11 05:44 G	40594833.66	40594833.74	40594833.83	0.0088	0.0067
Mercury	106433-01-07 07:11 G	40594921.73	40594921.80	40594921.87	0.0088	0.0073
Mercury	106433-04-05 08:08 G	40595009.80	40595009.84	40595009.90	0.0088	0.0080
Mercury	106433-07-02 09:20 G	40595097.89	40595097.89	40595097.92	0.0088	0.0087
Moon	106444-05-23 14:23 G	40599075.97	40599076.10	40599076.25	0.0088	0.0072
Earth	106444-05-23 14:52 G	40599076.00	40599076.12	40599076.27	0.0088	0.0074 *
Moon	106445-05-26 00:56 G	40599443.35	40599443.54	40599443.76	0.0088	0.0055
Earth	106445-05-26 02:23 G	40599443.41	40599443.60	40599443.82	0.0088	0.0054 *
Venus	106445-07-17 19:54 G	40599496.33	40599496.33	40599496.34	0.0088	0.0088
Venus	106446-02-28 09:06 G	40599721.80	40599721.88	40599722.00	0.0088	0.0078
Earth	106446-05-28 13:54 G	40599810.85	40599811.08	40599811.33	0.0088	0.0034
Moon	106446-05-28 16:18 G	40599810.95	40599811.18	40599811.42	0.0088	0.0032 *
Venus	106446-10-11 22:32 G	40599947.31	40599947.44	40599947.60	0.0088	0.0068
Venus	106447-05-25 11:59 G	40600172.84	40600173.00	40600173.18	0.0088	0.0058
Moon	106447-05-30 22:32 G	40600178.19	40600178.44	40600178.71	0.0088	0.0015
Earth	106447-05-31 01:54 G	40600178.32	40600178.58	40600178.84	0.0088	0.0013 *
Venus	106448-01-06 01:11 G	40600398.38	40600398.55	40600398.75	0.0088	0.0048
Earth	106448-06-01 13:11 G	40600545.80	40600546.05	40600546.32	0.0088	0.0008
Moon	106448-06-01 17:01 G	40600545.96	40600546.21	40600546.47	0.0088	0.0009 *
Venus	106448-08-18 14:37 G	40600623.92	40600624.11	40600624.33	0.0088	0.0038
Venus	106449-04-01 04:18 G	40600849.47	40600849.68	40600849.90	0.0088	0.0028

Moon	106449-06-03 21:20 G	40600913.15	40600913.39	40600913.65	0.0088	0.0026
Earth	106449-06-04 00:42 G	40600913.30	40600913.53	40600913.79	0.0088	0.0028 *
Venus	106449-11-12 17:44 G	40601075.02	40601075.24	40601075.46	0.0088	0.0018
Earth	106450-06-06 12:13 G	40601280.81	40601281.01	40601281.24	0.0088	0.0048
Moon	106450-06-06 15:20 G	40601280.95	40601281.14	40601281.38	0.0088	0.0051 *
Venus	106450-06-26 07:11 G	40601300.58	40601300.80	40601301.03	0.0088	0.0007
Venus	106451-02-06 20:37 G	40601526.13	40601526.36	40601526.59	0.0088	0.0003
Moon	106451-06-08 22:18 G	40601648.28	40601648.43	40601648.61	0.0088	0.0067
Earth	106451-06-09 00:13 G	40601648.35	40601648.51	40601648.68	0.0088	0.0068 *
Venus	106451-09-20 10:04 G	40601751.70	40601751.92	40601752.14	0.0088	0.0013
Venus	106452-05-02 23:44 G	40601977.27	40601977.49	40601977.70	0.0088	0.0023
Venus	106452-12-14 12:42 G	40602202.84	40602203.03	40602203.25	0.0088	0.0034
Venus	106453-07-28 02:08 G	40602428.41	40602428.59	40602428.80	0.0088	0.0044
Venus	106454-03-10 15:49 G	40602654.00	40602654.16	40602654.35	0.0088	0.0054
Venus	106454-10-22 05:16 G	40602879.58	40602879.72	40602879.89	0.0088	0.0064
Venus	106455-06-04 18:42 G	40603105.18	40603105.28	40603105.42	0.0088	0.0074
Venus	106456-01-16 08:08 G	40603330.80	40603330.84	40603330.93	0.0088	0.0084
Jupiter	106480-06-22 14:08 G	40612254.85	40612255.09	40612255.46	0.0088	0.0075
Mars	106481-04-29 15:20 G	40612565.99	40612566.14	40612566.30	0.0088	0.0079
Mars	106483-03-27 04:18 G	40613262.38	40613262.68	40613263.02	0.0088	0.0035
Mercury	106511-08-23 16:04 G	40623638.10	40623638.17	40623638.25	0.0089	0.0082
Mercury	106511-11-19 19:40 G	40623726.21	40623726.32	40623726.44	0.0089	0.0072
Mercury	106512-02-15 23:16 G	40623814.34	40623814.47	40623814.62	0.0089	0.0061
Mercury	106512-05-14 02:52 G	40623902.47	40623902.62	40623902.79	0.0089	0.0051
Mercury	106512-08-10 06:42 G	40623990.61	40623990.78	40623990.96	0.0089	0.0041
Mercury	106512-11-06 10:18 G	40624078.76	40624078.93	40624079.12	0.0089	0.0031
Mercury	106513-02-02 14:08 G	40624166.90	40624167.09	40624167.29	0.0089	0.0020
Mercury	106513-05-01 17:59 G	40624255.06	40624255.25	40624255.44	0.0089	0.0010
Mercury	106513-07-28 21:35 G	40624343.21	40624343.40	40624343.60	0.0089	0.0002
Mercury	106513-10-25 01:25 G	40624431.36	40624431.56	40624431.75	0.0089	0.0011

Mercury	106514-01-21 05:01 G	40624519.52	40624519.71	40624519.90	0.0089	0.0022
Mercury	106514-04-19 08:37 G	40624607.69	40624607.86	40624608.05	0.0089	0.0033
Mercury	106514-07-16 12:28 G	40624695.85	40624696.02	40624696.20	0.0089	0.0043
Mercury	106514-10-12 16:04 G	40624784.02	40624784.17	40624784.34	0.0089	0.0053
Mercury	106515-01-08 19:54 G	40624872.20	40624872.33	40624872.47	0.0089	0.0064
Mercury	106515-04-06 23:30 G	40624960.39	40624960.48	40624960.60	0.0089	0.0075
Mercury	106515-07-04 03:20 G	40625048.59	40625048.64	40625048.71	0.0089	0.0085
Moon	106526-11-26 02:52 G	40629211.51	40629211.62	40629211.76	0.0090	0.0077
Earth	106526-11-26 05:44 G	40629211.60	40629211.74	40629211.90	0.0090	0.0073 *
Earth	106527-11-28 17:16 G	40629579.02	40629579.22	40629579.44	0.0090	0.0052
Moon	106527-11-28 19:25 G	40629579.09	40629579.31	40629579.53	0.0090	0.0048 *
Venus	106528-04-17 22:32 G	40629720.37	40629720.44	40629720.55	0.0090	0.0081
Venus	106528-11-29 11:01 G	40629945.85	40629945.96	40629946.12	0.0090	0.0071
Moon	106528-11-30 04:04 G	40629946.46	40629946.67	40629946.91	0.0090	0.0035
Earth	106528-11-30 05:01 G	40629946.48	40629946.71	40629946.96	0.0090	0.0031 *
Venus	106529-07-12 23:59 G	40630171.35	40630171.50	40630171.67	0.0090	0.0060
Moon	106529-12-02 16:04 G	40630313.91	40630314.17	40630314.44	0.0090	0.0006
Earth	106529-12-02 17:01 G	40630313.96	40630314.21	40630314.47	0.0090	0.0009 *
Venus	106530-02-23 12:28 G	40630396.86	40630397.02	40630397.21	0.0090	0.0050
Venus	106530-10-07 01:11 G	40630622.37	40630622.55	40630622.76	0.0090	0.0040
Earth	106530-12-05 04:32 G	40630681.44	40630681.69	40630681.95	0.0090	0.0012
Moon	106530-12-05 06:28 G	40630681.53	40630681.77	40630682.02	0.0090	0.0009 *
Venus	106531-05-20 14:08 G	40630847.89	40630848.09	40630848.30	0.0090	0.0029
Moon	106531-12-07 13:11 G	40631048.84	40631049.05	40631049.31	0.0090	0.0038
Earth	106531-12-07 16:04 G	40631048.95	40631049.17	40631049.42	0.0090	0.0034 *
Venus	106532-01-01 02:37 G	40631073.41	40631073.61	40631073.83	0.0090	0.0019
Venus	106532-08-13 15:20 G	40631298.93	40631299.14	40631299.36	0.0090	0.0009
Earth	106532-12-09 04:04 G	40631416.47	40631416.67	40631416.88	0.0090	0.0055
Moon	106532-12-09 07:11 G	40631416.62	40631416.80	40631417.03	0.0090	0.0052 *
Venus	106533-03-27 04:04 G	40631524.46	40631524.67	40631524.89	0.0090	0.0002

Venus	106533-11-07 16:32 G	40631749.98	40631750.19	40631750.41	0.0090	0.0013
Moon	106533-12-11 11:59 G	40631783.91	40631784.00	40631784.14	0.0090	0.0080
Earth	106533-12-11 15:49 G	40631784.03	40631784.16	40631784.30	0.0090	0.0076 *
Venus	106534-06-21 05:01 G	40631975.51	40631975.71	40631975.93	0.0090	0.0023
Venus	106535-02-01 17:44 G	40632201.04	40632201.24	40632201.44	0.0090	0.0033
Venus	106535-09-15 05:59 G	40632426.58	40632426.75	40632426.96	0.0090	0.0044
Venus	106536-04-27 18:42 G	40632652.12	40632652.28	40632652.46	0.0090	0.0054
Venus	106536-12-09 07:11 G	40632877.66	40632877.80	40632877.96	0.0090	0.0064
Venus	106537-07-22 19:54 G	40633103.21	40633103.33	40633103.45	0.0090	0.0074
Venus	106538-03-05 07:40 G	40633328.78	40633328.82	40633328.92	0.0090	0.0085
Mars	106563-02-05 03:20 G	40642431.37	40642431.64	40642431.91	0.0089	0.0027
Mars	106564-12-29 14:23 G	40643124.92	40643125.10	40643125.31	0.0089	0.0065
Mercury	106591-12-22 23:30 G	40652979.47	40652979.48	40652979.51	0.0088	0.0087
Mercury	106592-03-20 00:56 G	40653067.49	40653067.54	40653067.60	0.0088	0.0080
Mercury	106592-06-16 02:08 G	40653155.53	40653155.59	40653155.67	0.0088	0.0073
Mercury	106592-09-12 03:35 G	40653243.57	40653243.65	40653243.74	0.0088	0.0066
Mercury	106592-12-09 05:01 G	40653331.61	40653331.71	40653331.81	0.0088	0.0059
Mercury	106593-03-07 05:59 G	40653419.66	40653419.75	40653419.87	0.0088	0.0053
Mercury	106593-06-03 07:25 G	40653507.71	40653507.81	40653507.93	0.0088	0.0046
Mercury	106593-08-30 08:52 G	40653595.75	40653595.87	40653595.99	0.0088	0.0039
Mercury	106593-11-26 10:18 G	40653683.80	40653683.93	40653684.05	0.0088	0.0032
Mercury	106594-02-22 11:16 G	40653771.85	40653771.97	40653772.11	0.0088	0.0026
Mercury	106594-05-21 12:42 G	40653859.90	40653860.03	40653860.16	0.0088	0.0019
Mercury	106594-08-17 14:08 G	40653947.95	40653948.09	40653948.22	0.0088	0.0012
Mercury	106594-11-13 15:20 G	40654036.01	40654036.14	40654036.27	0.0088	0.0005
Mercury	106595-02-09 16:32 G	40654124.06	40654124.19	40654124.33	0.0088	0.0003
Mercury	106595-05-08 17:59 G	40654212.12	40654212.25	40654212.38	0.0088	0.0009
Mercury	106595-08-04 19:11 G	40654300.17	40654300.30	40654300.43	0.0088	0.0015
Mercury	106595-10-31 20:23 G	40654388.23	40654388.35	40654388.48	0.0088	0.0022
Mercury	106596-01-27 21:35 G	40654476.28	40654476.40	40654476.53	0.0088	0.0029

Mercury	106596-04-24 23:01 G	40654564.34	40654564.46	40654564.58	0.0088	0.0035
Mercury	106596-07-22 00:13 G	40654652.40	40654652.51	40654652.63	0.0088	0.0042
Mercury	106596-10-18 01:25 G	40654740.46	40654740.56	40654740.68	0.0088	0.0049
Mercury	106597-01-14 02:37 G	40654828.52	40654828.61	40654828.72	0.0088	0.0056
Mercury	106597-04-12 04:04 G	40654916.58	40654916.67	40654916.77	0.0088	0.0062
Mercury	106597-07-09 05:16 G	40655004.65	40655004.72	40655004.81	0.0088	0.0069
Mercury	106597-10-05 06:28 G	40655092.71	40655092.77	40655092.84	0.0088	0.0076
Mercury	106598-01-01 07:54 G	40655180.79	40655180.83	40655180.88	0.0088	0.0082
Earth	106608-05-24 22:04 G	40658976.35	40658976.42	40658976.53	0.0088	0.0082
Moon	106608-05-25 02:08 G	40658976.53	40658976.59	40658976.67	0.0088	0.0084 *
Moon	106609-05-27 06:56 G	40659343.62	40659343.79	40659344.00	0.0088	0.0060
Earth	106609-05-27 09:35 G	40659343.74	40659343.90	40659344.11	0.0088	0.0062 *
Earth	106610-05-29 21:35 G	40659711.18	40659711.40	40659711.64	0.0088	0.0041
Moon	106610-05-29 23:44 G	40659711.27	40659711.49	40659711.74	0.0088	0.0044 *
Venus	106610-06-03 18:13 G	40659716.18	40659716.26	40659716.36	0.0088	0.0080
Venus	106611-01-15 07:40 G	40659941.69	40659941.82	40659941.96	0.0088	0.0070
Moon	106611-06-01 08:23 G	40660078.61	40660078.85	40660079.11	0.0088	0.0019
Earth	106611-06-01 09:06 G	40660078.64	40660078.88	40660079.15	0.0088	0.0021 *
Venus	106611-08-28 20:37 G	40660167.22	40660167.36	40660167.54	0.0088	0.0061
Venus	106612-04-10 10:04 G	40660392.76	40660392.92	40660393.13	0.0088	0.0051
Moon	106612-06-02 19:54 G	40660446.06	40660446.33	40660446.61	0.0088	0.0002
Earth	106612-06-02 20:52 G	40660446.11	40660446.37	40660446.63	0.0088	0.0000 *
Venus	106612-11-21 23:59 G	40660618.30	40660618.50	40660618.70	0.0088	0.0040
Earth	106613-06-05 08:23 G	40660813.60	40660813.85	40660814.11	0.0088	0.0020
Moon	106613-06-05 09:49 G	40660813.67	40660813.91	40660814.16	0.0088	0.0023 *
Venus	106613-07-05 13:25 G	40660843.85	40660844.06	40660844.27	0.0088	0.0030
Venus	106614-02-16 02:37 G	40661069.40	40661069.61	40661069.84	0.0088	0.0020
Moon	106614-06-07 16:32 G	40661180.97	40661181.19	40661181.45	0.0088	0.0039
Earth	106614-06-07 19:40 G	40661181.11	40661181.32	40661181.57	0.0088	0.0041 *
Venus	106614-09-29 16:04 G	40661294.95	40661295.17	40661295.40	0.0088	0.0010

Venus	106615-05-13 05:30 G	40661520.51	40661520.73	40661520.96	0.0088	0.0002
Earth	106615-06-10 07:25 G	40661548.63	40661548.81	40661549.01	0.0088	0.0061
Moon	106615-06-10 10:47 G	40661548.78	40661548.95	40661549.14	0.0088	0.0063 *
Venus	106615-12-24 18:56 G	40661746.07	40661746.29	40661746.52	0.0088	0.0010
Moon	106616-06-11 15:06 G	40661916.05	40661916.13	40661916.27	0.0088	0.0079
Earth	106616-06-11 19:25 G	40661916.21	40661916.31	40661916.41	0.0088	0.0081 *
Venus	106616-08-06 08:08 G	40661971.63	40661971.84	40661972.07	0.0088	0.0021
Venus	106617-03-19 21:35 G	40662197.20	40662197.40	40662197.63	0.0088	0.0031
Venus	106617-10-31 11:16 G	40662422.78	40662422.97	40662423.18	0.0088	0.0041
Venus	106618-06-14 00:42 G	40662648.35	40662648.53	40662648.72	0.0088	0.0051
Venus	106619-01-25 14:08 G	40662873.94	40662874.09	40662874.26	0.0088	0.0061
Venus	106619-09-08 03:35 G	40663099.53	40663099.65	40663099.79	0.0088	0.0071
Venus	106620-04-20 17:16 G	40663325.15	40663325.22	40663325.32	0.0088	0.0081
Mars	106646-11-09 08:23 G	40673023.51	40673023.85	40673024.21	0.0088	0.0007
Mercury	106676-02-22 10:18 G	40683720.92	40683720.93	40683720.98	0.0089	0.0088
Mercury	106676-05-20 14:23 G	40683809.01	40683809.10	40683809.20	0.0089	0.0078
Mercury	106676-08-16 17:44 G	40683897.13	40683897.24	40683897.38	0.0089	0.0068
Mercury	106676-11-12 21:20 G	40683985.26	40683985.39	40683985.56	0.0089	0.0058
Mercury	106677-02-09 01:25 G	40684073.40	40684073.56	40684073.73	0.0089	0.0047
Mercury	106677-05-08 05:01 G	40684161.54	40684161.71	40684161.89	0.0089	0.0037
Mercury	106677-08-04 08:37 G	40684249.68	40684249.86	40684250.05	0.0089	0.0026
Mercury	106677-10-31 12:28 G	40684337.83	40684338.02	40684338.21	0.0089	0.0016
Mercury	106678-01-27 16:18 G	40684425.98	40684426.18	40684426.37	0.0089	0.0006
Mercury	106678-04-25 19:54 G	40684514.14	40684514.33	40684514.53	0.0089	0.0005
Mercury	106678-07-22 23:30 G	40684602.29	40684602.48	40684602.68	0.0089	0.0015
Mercury	106678-10-19 03:20 G	40684690.45	40684690.64	40684690.83	0.0089	0.0026
Mercury	106679-01-15 06:42 G	40684778.61	40684778.78	40684778.97	0.0089	0.0037
Mercury	106679-04-13 10:32 G	40684866.78	40684866.94	40684867.11	0.0089	0.0047
Mercury	106679-07-10 14:08 G	40684954.95	40684955.09	40684955.25	0.0089	0.0057
Mercury	106679-10-06 17:59 G	40685043.13	40685043.25	40685043.39	0.0089	0.0068

Mercury	106680-01-02 21:20 G	40685131.32	40685131.39	40685131.51	0.0090	0.0079
Mercury	106680-03-31 01:25 G	40685219.55	40685219.56	40685219.60	0.0090	0.0089
Earth	106690-11-26 13:54 G	40689111.98	40689112.08	40689112.19	0.0090	0.0081
Moon	106690-11-26 16:32 G	40689112.08	40689112.19	40689112.33	0.0090	0.0078 *
Moon	106691-11-28 22:18 G	40689479.26	40689479.43	40689479.62	0.0090	0.0064
Earth	106691-11-29 01:25 G	40689479.39	40689479.56	40689479.76	0.0090	0.0060 *
Venus	106692-07-21 09:20 G	40689714.82	40689714.89	40689714.98	0.0090	0.0083
Earth	106692-11-30 13:11 G	40689846.83	40689847.05	40689847.29	0.0090	0.0039
Moon	106692-11-30 16:47 G	40689846.98	40689847.20	40689847.45	0.0090	0.0035 *
Venus	106693-03-03 21:49 G	40689940.30	40689940.41	40689940.55	0.0090	0.0073
Venus	106693-10-15 10:32 G	40690165.80	40690165.94	40690166.11	0.0090	0.0063
Moon	106693-12-02 22:18 G	40690214.19	40690214.43	40690214.67	0.0090	0.0021
Earth	106693-12-03 00:56 G	40690214.30	40690214.54	40690214.80	0.0090	0.0018 *
Venus	106694-05-28 23:01 G	40690391.31	40690391.46	40690391.65	0.0090	0.0053
Earth	106694-12-05 12:42 G	40690581.78	40690582.03	40690582.29	0.0090	0.0004
Moon	106694-12-05 15:20 G	40690581.88	40690582.14	40690582.40	0.0090	0.0008 *
Venus	106695-01-09 11:59 G	40690616.81	40690617.00	40690617.19	0.0090	0.0042
Venus	106695-08-23 00:28 G	40690842.33	40690842.52	40690842.73	0.0090	0.0032
Moon	106695-12-07 23:16 G	40690949.24	40690949.47	40690949.72	0.0090	0.0022
Earth	106695-12-08 00:13 G	40690949.28	40690949.51	40690949.77	0.0090	0.0026 *
Venus	106696-04-04 13:25 G	40691067.85	40691068.06	40691068.27	0.0090	0.0021
Venus	106696-11-16 01:54 G	40691293.37	40691293.58	40691293.80	0.0090	0.0011
Moon	106696-12-09 11:16 G	40691316.78	40691316.97	40691317.21	0.0090	0.0051
Earth	106696-12-09 12:13 G	40691316.80	40691317.01	40691317.23	0.0090	0.0047 *
Venus	106697-06-29 14:37 G	40691518.89	40691519.11	40691519.32	0.0090	0.0000
Earth	106697-12-11 23:30 G	40691684.34	40691684.48	40691684.67	0.0090	0.0069
Moon	106697-12-12 00:42 G	40691684.38	40691684.53	40691684.72	0.0090	0.0065 *
Venus	106698-02-10 03:20 G	40691744.42	40691744.64	40691744.85	0.0090	0.0010
Venus	106698-09-23 15:49 G	40691969.96	40691970.16	40691970.38	0.0090	0.0021
Earth	106698-12-14 11:16 G	40692051.97	40692051.97	40692052.00	0.0090	0.0090



Venus	106699-05-07 04:18 G	40692195.49	40692195.68	40692195.89	0.0090	0.0031
Venus	106699-12-18 17:01 G	40692421.02	40692421.21	40692421.41	0.0090	0.0041
Venus	106700-08-01 05:16 G	40692646.56	40692646.72	40692646.91	0.0090	0.0052
Venus	106701-03-14 17:44 G	40692872.10	40692872.24	40692872.41	0.0090	0.0062
Venus	106701-10-26 06:28 G	40693097.66	40693097.77	40693097.91	0.0090	0.0072
Venus	106702-06-08 18:56 G	40693323.22	40693323.29	40693323.39	0.0090	0.0082
Mars	106726-09-22 16:47 G	40702195.02	40702195.20	40702195.43	0.0089	0.0062
Mars	106728-08-16 03:35 G	40702888.39	40702888.65	40702888.92	0.0089	0.0031
Mercury	106756-09-19 23:16 G	40713150.44	40713150.47	40713150.51	0.0088	0.0084
Mercury	106756-12-17 00:13 G	40713238.47	40713238.51	40713238.59	0.0088	0.0078
Mercury	106757-03-15 01:40 G	40713326.51	40713326.57	40713326.66	0.0088	0.0071
Mercury	106757-06-11 03:06 G	40713414.55	40713414.63	40713414.73	0.0088	0.0064
Mercury	106757-09-07 04:32 G	40713502.59	40713502.69	40713502.79	0.0088	0.0057
Mercury	106757-12-04 05:30 G	40713590.64	40713590.73	40713590.85	0.0088	0.0051
Mercury	106758-03-02 06:56 G	40713678.68	40713678.79	40713678.91	0.0088	0.0044
Mercury	106758-05-29 08:23 G	40713766.73	40713766.85	40713766.97	0.0088	0.0037
Mercury	106758-08-25 09:35 G	40713854.78	40713854.90	40713855.03	0.0088	0.0030
Mercury	106758-11-21 11:01 G	40713942.83	40713942.96	40713943.09	0.0088	0.0023
Mercury	106759-02-17 12:13 G	40714030.88	40714031.01	40714031.14	0.0088	0.0017
Mercury	106759-05-16 13:40 G	40714118.93	40714119.07	40714119.20	0.0088	0.0010
Mercury	106759-08-12 14:52 G	40714206.99	40714207.12	40714207.25	0.0088	0.0003
Mercury	106759-11-08 16:04 G	40714295.04	40714295.17	40714295.31	0.0088	0.0004
Mercury	106760-02-04 17:16 G	40714383.09	40714383.22	40714383.36	0.0088	0.0011
Mercury	106760-05-02 18:42 G	40714471.15	40714471.28	40714471.41	0.0088	0.0017
Mercury	106760-07-29 19:54 G	40714559.21	40714559.33	40714559.46	0.0088	0.0024
Mercury	106760-10-25 21:06 G	40714647.26	40714647.38	40714647.51	0.0088	0.0031
Mercury	106761-01-21 22:18 G	40714735.32	40714735.43	40714735.56	0.0088	0.0038
Mercury	106761-04-19 23:44 G	40714823.38	40714823.49	40714823.61	0.0088	0.0044
Mercury	106761-07-17 00:56 G	40714911.44	40714911.54	40714911.65	0.0088	0.0051
Mercury	106761-10-13 02:08 G	40714999.50	40714999.59	40714999.70	0.0088	0.0058

Mercury	106762-01-09 03:35 G	40715087.56	40715087.65	40715087.74	0.0088	0.0064
Mercury	106762-04-07 04:47 G	40715175.63	40715175.70	40715175.78	0.0088	0.0071
Mercury	106762-07-04 05:59 G	40715263.70	40715263.75	40715263.82	0.0088	0.0078
Mercury	106762-09-30 07:25 G	40715351.78	40715351.81	40715351.85	0.0088	0.0084
Moon	106772-05-25 04:04 G	40718876.65	40718876.67	40718876.71	0.0088	0.0087
Earth	106773-05-27 17:44 G	40719244.10	40719244.24	40719244.41	0.0088	0.0069
Moon	106773-05-27 20:08 G	40719244.22	40719244.34	40719244.51	0.0088	0.0072 *
Moon	106774-05-30 01:54 G	40719611.37	40719611.58	40719611.82	0.0088	0.0046
Earth	106774-05-30 05:30 G	40719611.53	40719611.73	40719611.96	0.0088	0.0049 *
Venus	106774-09-06 03:49 G	40719710.58	40719710.66	40719710.73	0.0088	0.0082
Venus	106775-04-19 16:32 G	40719936.09	40719936.19	40719936.35	0.0088	0.0073
Earth	106775-06-01 17:30 G	40719978.98	40719979.23	40719979.47	0.0088	0.0028
Moon	106775-06-01 20:37 G	40719979.13	40719979.36	40719979.62	0.0088	0.0031 *
Venus	106775-12-01 05:59 G	40720161.62	40720161.75	40720161.93	0.0088	0.0063
Moon	106776-06-03 01:54 G	40720346.33	40720346.58	40720346.84	0.0088	0.0005
Earth	106776-06-03 05:01 G	40720346.46	40720346.71	40720346.98	0.0088	0.0008 *
Venus	106776-07-13 19:25 G	40720387.16	40720387.31	40720387.51	0.0088	0.0053
Venus	106777-02-24 09:06 G	40720612.70	40720612.88	40720613.09	0.0088	0.0043
Earth	106777-06-05 16:32 G	40720713.94	40720714.19	40720714.46	0.0088	0.0013
Moon	106777-06-05 19:25 G	40720714.05	40720714.31	40720714.58	0.0088	0.0010 *
Venus	106777-10-07 22:32 G	40720838.25	40720838.44	40720838.67	0.0088	0.0033
Venus	106778-05-21 12:28 G	40721063.80	40721064.02	40721064.23	0.0088	0.0022
Moon	106778-06-08 03:06 G	40721081.42	40721081.63	40721081.88	0.0088	0.0036
Earth	106778-06-08 04:04 G	40721081.44	40721081.67	40721081.93	0.0088	0.0034 *
Venus	106779-01-02 01:40 G	40721289.35	40721289.57	40721289.79	0.0088	0.0012
Moon	106779-06-10 15:35 G	40721448.95	40721449.15	40721449.39	0.0088	0.0052
Earth	106779-06-10 15:49 G	40721448.97	40721449.16	40721449.38	0.0088	0.0054 *
Venus	106779-08-15 15:06 G	40721514.90	40721515.13	40721515.36	0.0088	0.0002
Venus	106780-03-28 04:32 G	40721740.47	40721740.69	40721740.92	0.0088	0.0008
Earth	106780-06-12 03:35 G	40721816.52	40721816.65	40721816.79	0.0088	0.0074

Moon	106780-06-12 04:47 G	40721816.59	40721816.70	40721816.82	0.0088	0.0077 *
Venus	106780-11-08 17:44 G	40721966.03	40721966.24	40721966.47	0.0088	0.0019
Venus	106781-06-22 07:11 G	40722191.60	40722191.80	40722192.02	0.0088	0.0029
Venus	106782-02-02 20:23 G	40722417.17	40722417.35	40722417.57	0.0088	0.0039
Venus	106782-09-16 09:49 G	40722642.74	40722642.91	40722643.12	0.0088	0.0049
Venus	106783-04-29 23:30 G	40722868.33	40722868.48	40722868.66	0.0088	0.0059
Venus	106783-12-11 12:42 G	40723093.92	40723094.03	40723094.19	0.0088	0.0069
Venus	106784-07-24 02:08 G	40723319.52	40723319.59	40723319.71	0.0088	0.0079
Mars	106810-06-23 13:40 G	40732784.79	40732785.07	40732785.38	0.0088	0.0048
Mars	106812-05-20 03:20 G	40733481.42	40733481.64	40733481.88	0.0088	0.0066
Mercury	106840-11-19 08:52 G	40743891.82	40743891.87	40743891.95	0.0089	0.0084
Mercury	106841-02-15 12:28 G	40743979.93	40743980.02	40743980.14	0.0089	0.0074
Mercury	106841-05-14 16:04 G	40744068.05	40744068.17	40744068.32	0.0089	0.0064
Mercury	106841-08-10 20:08 G	40744156.18	40744156.34	40744156.50	0.0089	0.0053
Mercury	106841-11-06 23:44 G	40744244.32	40744244.49	40744244.66	0.0089	0.0043
Mercury	106842-02-03 03:20 G	40744332.47	40744332.64	40744332.83	0.0089	0.0032
Mercury	106842-05-02 07:11 G	40744420.61	40744420.80	40744420.99	0.0089	0.0022
Mercury	106842-07-29 10:47 G	40744508.76	40744508.95	40744509.15	0.0089	0.0012
Mercury	106842-10-25 14:37 G	40744596.91	40744597.11	40744597.30	0.0089	0.0001
Mercury	106843-01-21 18:13 G	40744685.07	40744685.26	40744685.46	0.0089	0.0009
Mercury	106843-04-19 22:04 G	40744773.23	40744773.42	40744773.61	0.0089	0.0020
Mercury	106843-07-17 01:25 G	40744861.39	40744861.56	40744861.76	0.0089	0.0031
Mercury	106843-10-13 05:16 G	40744949.55	40744949.72	40744949.90	0.0089	0.0041
Mercury	106844-01-09 08:52 G	40745037.72	40745037.87	40745038.04	0.0089	0.0051
Mercury	106844-04-06 12:42 G	40745125.90	40745126.03	40745126.18	0.0089	0.0062
Mercury	106844-07-03 16:32 G	40745214.08	40745214.19	40745214.31	0.0089	0.0072
Mercury	106844-09-29 19:54 G	40745302.28	40745302.33	40745302.42	0.0089	0.0083
Earth	106854-11-26 22:47 G	40749012.43	40749012.45	40749012.49	0.0090	0.0089
Moon	106855-11-29 10:32 G	40749379.78	40749379.94	40749380.13	0.0090	0.0064
Earth	106855-11-29 10:32 G	40749379.79	40749379.94	40749380.12	0.0090	0.0068 *

Venus	106856-10-23 20:08 G	40749709.30	40749709.34	40749709.43	0.0090	0.0086
Moon	106856-11-30 20:23 G	40749747.15	40749747.35	40749747.58	0.0090	0.0050
Earth	106856-11-30 22:04 G	40749747.22	40749747.42	40749747.66	0.0090	0.0047 *
Venus	106857-06-06 09:06 G	40749934.77	40749934.88	40749935.01	0.0090	0.0075
Earth	106857-12-03 10:04 G	40750114.68	40750114.92	40750115.17	0.0090	0.0025
Moon	106857-12-03 12:13 G	40750114.78	40750115.01	40750115.27	0.0090	0.0022 *
Venus	106858-01-17 21:35 G	40750160.27	40750160.40	40750160.56	0.0090	0.0065
Venus	106858-08-31 10:18 G	40750385.77	40750385.93	40750386.11	0.0090	0.0055
Moon	106858-12-05 18:28 G	40750482.01	40750482.27	40750482.53	0.0090	0.0008
Earth	106858-12-05 21:49 G	40750482.16	40750482.41	40750482.66	0.0090	0.0003 *
Venus	106859-04-13 22:47 G	40750611.28	40750611.45	40750611.65	0.0090	0.0045
Venus	106859-11-25 11:44 G	40750836.79	40750836.99	40750837.19	0.0090	0.0034
Earth	106859-12-08 09:20 G	40750849.64	40750849.89	40750850.14	0.0090	0.0018
Moon	106859-12-08 12:56 G	40750849.80	40750850.04	40750850.29	0.0090	0.0022 *
Venus	106860-07-07 23:59 G	40751062.30	40751062.50	40751062.72	0.0090	0.0024
Moon	106860-12-09 17:30 G	40751217.02	40751217.23	40751217.48	0.0090	0.0036
Earth	106860-12-09 20:37 G	40751217.15	40751217.36	40751217.61	0.0090	0.0040 *
Venus	106861-02-18 12:42 G	40751287.82	40751288.03	40751288.25	0.0090	0.0014
Venus	106861-10-02 01:40 G	40751513.35	40751513.57	40751513.78	0.0090	0.0003
Earth	106861-12-12 08:08 G	40751584.67	40751584.84	40751585.04	0.0090	0.0061
Moon	106861-12-12 11:16 G	40751584.80	40751584.97	40751585.15	0.0090	0.0065 *
Venus	106862-05-15 14:08 G	40751738.88	40751739.09	40751739.31	0.0090	0.0007
Moon	106862-12-14 18:28 G	40751952.18	40751952.27	40751952.41	0.0090	0.0079
Earth	106862-12-14 19:54 G	40751952.24	40751952.33	40751952.44	0.0090	0.0082 *
Venus	106862-12-27 02:37 G	40751964.40	40751964.61	40751964.83	0.0090	0.0018
Venus	106863-08-09 15:20 G	40752189.93	40752190.14	40752190.34	0.0090	0.0028
Venus	106864-03-22 03:35 G	40752415.47	40752415.65	40752415.86	0.0090	0.0039
Venus	106864-11-02 16:18 G	40752641.01	40752641.18	40752641.37	0.0090	0.0049
Venus	106865-06-16 05:01 G	40752866.56	40752866.71	40752866.88	0.0090	0.0059
Venus	106866-01-27 17:44 G	40753092.10	40753092.24	40753092.37	0.0090	0.0069

Venus	106866-09-10 05:44 G	40753317.67	40753317.74	40753317.86	0.0090	0.0080
Venus	106867-04-23 18:42 G	40753543.28	40753543.28	40753543.30	0.0090	0.0090
Jupiter	106889-06-23 01:40 G	40761639.07	40761639.57	40761640.09	0.0089	0.0018
Mars	106892-03-31 19:40 G	40762652.04	40762652.32	40762652.60	0.0089	0.0002
Mercury	106921-06-17 23:01 G	40773321.41	40773321.46	40773321.51	0.0088	0.0081
Mercury	106921-09-13 23:59 G	40773409.45	40773409.50	40773409.58	0.0088	0.0075
Mercury	106921-12-11 01:25 G	40773497.49	40773497.56	40773497.65	0.0088	0.0068
Mercury	106922-03-09 02:52 G	40773585.53	40773585.62	40773585.72	0.0088	0.0061
Mercury	106922-06-05 04:18 G	40773673.57	40773673.68	40773673.78	0.0088	0.0054
Mercury	106922-09-01 05:16 G	40773761.62	40773761.72	40773761.84	0.0088	0.0048
Mercury	106922-11-28 06:42 G	40773849.67	40773849.78	40773849.90	0.0088	0.0041
Mercury	106923-02-24 07:54 G	40773937.72	40773937.83	40773937.96	0.0088	0.0034
Mercury	106923-05-23 09:20 G	40774025.77	40774025.89	40774026.02	0.0088	0.0027
Mercury	106923-08-19 10:32 G	40774113.82	40774113.94	40774114.08	0.0088	0.0021
Mercury	106923-11-15 11:59 G	40774201.87	40774202.00	40774202.13	0.0088	0.0014
Mercury	106924-02-11 13:11 G	40774289.92	40774290.05	40774290.19	0.0088	0.0007
Mercury	106924-05-09 14:37 G	40774377.97	40774378.11	40774378.24	0.0088	0.0002
Mercury	106924-08-05 15:49 G	40774466.03	40774466.16	40774466.29	0.0088	0.0007
Mercury	106924-11-01 17:01 G	40774554.08	40774554.21	40774554.35	0.0088	0.0013
Mercury	106925-01-28 18:28 G	40774642.14	40774642.27	40774642.40	0.0088	0.0020
Mercury	106925-04-26 19:40 G	40774730.19	40774730.32	40774730.45	0.0088	0.0027
Mercury	106925-07-23 20:52 G	40774818.25	40774818.37	40774818.50	0.0088	0.0033
Mercury	106925-10-19 22:04 G	40774906.31	40774906.42	40774906.55	0.0088	0.0040
Mercury	106926-01-15 23:16 G	40774994.37	40774994.47	40774994.59	0.0088	0.0047
Mercury	106926-04-14 00:28 G	40775082.43	40775082.52	40775082.64	0.0088	0.0054
Mercury	106926-07-11 01:54 G	40775170.49	40775170.58	40775170.68	0.0088	0.0060
Mercury	106926-10-07 03:06 G	40775258.56	40775258.63	40775258.72	0.0088	0.0067
Mercury	106927-01-03 04:18 G	40775346.62	40775346.68	40775346.76	0.0088	0.0074
Mercury	106927-04-01 05:44 G	40775434.69	40775434.74	40775434.80	0.0088	0.0080
Mercury	106927-06-28 06:56 G	40775522.78	40775522.79	40775522.81	0.0088	0.0087

Earth	106937-05-28 01:40 G	40779144.48	40779144.57	40779144.73	0.0088	0.0077
Moon	106937-05-28 03:49 G	40779144.52	40779144.66	40779144.81	0.0088	0.0073 *
Earth	106938-05-30 13:40 G	40779511.88	40779512.07	40779512.28	0.0088	0.0056
Moon	106938-05-30 13:54 G	40779511.91	40779512.08	40779512.28	0.0088	0.0059 *
Venus	106938-12-09 12:28 G	40779704.99	40779705.02	40779705.11	0.0088	0.0085
Moon	106939-06-01 23:30 G	40779879.25	40779879.48	40779879.74	0.0088	0.0034
Earth	106939-06-02 01:11 G	40779879.33	40779879.55	40779879.81	0.0088	0.0036 *
Venus	106939-07-23 01:54 G	40779930.49	40779930.58	40779930.72	0.0088	0.0075
Venus	106940-03-04 15:35 G	40780156.02	40780156.15	40780156.32	0.0088	0.0065
Earth	106940-06-03 13:11 G	40780246.79	40780247.05	40780247.31	0.0088	0.0015
Moon	106940-06-03 15:35 G	40780246.90	40780247.15	40780247.40	0.0088	0.0018 *
Venus	106940-10-16 05:01 G	40780381.56	40780381.71	40780381.91	0.0088	0.0055
Venus	106941-05-29 18:28 G	40780607.10	40780607.27	40780607.48	0.0088	0.0045
Moon	106941-06-05 21:20 G	40780614.13	40780614.39	40780614.66	0.0088	0.0008
Earth	106941-06-06 00:56 G	40780614.28	40780614.54	40780614.81	0.0088	0.0006 *
Venus	106942-01-10 07:54 G	40780832.64	40780832.83	40780833.05	0.0088	0.0035
Earth	106942-06-08 12:13 G	40780981.78	40780982.01	40780982.28	0.0088	0.0027
Moon	106942-06-08 16:04 G	40780981.93	40780982.17	40780982.43	0.0088	0.0024 *
Venus	106942-08-23 21:35 G	40781058.19	40781058.40	40781058.62	0.0088	0.0024
Venus	106943-04-06 11:01 G	40781283.75	40781283.96	40781284.20	0.0088	0.0015
Moon	106943-06-10 20:37 G	40781349.16	40781349.36	40781349.59	0.0088	0.0050
Earth	106943-06-10 23:59 G	40781349.30	40781349.50	40781349.74	0.0088	0.0047 *
Venus	106943-11-18 00:42 G	40781509.31	40781509.53	40781509.76	0.0088	0.0004
Earth	106944-06-12 11:16 G	40781716.84	40781716.97	40781717.17	0.0088	0.0068
Moon	106944-06-12 14:52 G	40781716.94	40781717.12	40781717.30	0.0088	0.0064 *
Venus	106944-06-30 14:08 G	40781734.87	40781735.09	40781735.32	0.0088	0.0006
Venus	106945-02-11 03:35 G	40781960.43	40781960.65	40781960.87	0.0088	0.0016
Earth	106945-06-14 23:30 G	40782084.48	40782084.48	40782084.51	0.0088	0.0088
Venus	106945-09-24 17:01 G	40782186.00	40782186.21	40782186.43	0.0088	0.0026
Venus	106946-05-08 06:13 G	40782411.57	40782411.76	40782411.98	0.0088	0.0037

Venus	106946-12-19 19:25 G	40782637.14	40782637.31	40782637.52	0.0088	0.0047
Venus	106947-08-02 08:52 G	40782862.72	40782862.87	40782863.06	0.0088	0.0057
Venus	106948-03-14 22:18 G	40783088.31	40783088.43	40783088.60	0.0088	0.0067
Venus	106948-10-26 11:44 G	40783313.91	40783313.99	40783314.13	0.0088	0.0077
Venus	106949-06-09 01:11 G	40783539.54	40783539.55	40783539.62	0.0088	0.0087
Mars	106976-01-02 08:52 G	40793242.56	40793242.87	40793243.23	0.0088	0.0026

# 108TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 108th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	107005-08-18 07:11 G	40804062.73	40804062.80	40804062.90	0.0089	0.0080		
Mercury	107005-11-14 10:47 G	40804150.85	40804150.95	40804151.09	0.0089	0.0070		
Mercury	107006-02-10 14:52 G	40804238.98	40804239.12	40804239.27	0.0089	0.0059		
Mercury	107006-05-09 18:13 G	40804327.11	40804327.26	40804327.44	0.0089	0.0049		
Mercury	107006-08-05 22:04 G	40804415.25	40804415.42	40804415.60	0.0089	0.0038		
Mercury	107006-11-02 01:54 G	40804503.40	40804503.58	40804503.77	0.0089	0.0028		
Mercury	107007-01-29 05:30 G	40804591.54	40804591.73	40804591.93	0.0089	0.0018		
Mercury	107007-04-27 09:20 G	40804679.69	40804679.89	40804680.08	0.0089	0.0007		
Mercury	107007-07-24 12:56 G	40804767.85	40804768.04	40804768.24	0.0089	0.0004		
Mercury	107007-10-20 16:47 G	40804856.00	40804856.20	40804856.39	0.0089	0.0014		
Mercury	107008-01-16 20:08 G	40804944.16	40804944.34	40804944.54	0.0089	0.0025		
Mercury	107008-04-13 23:59 G	40805032.33	40805032.50	40805032.69	0.0089	0.0035		

Mercury	107008-07-11 03:35 G	40805120.49	40805120.65	40805120.83	0.0089	0.0045
Mercury	107008-10-07 07:11 G	40805208.66	40805208.80	40805208.97	0.0089	0.0056
Mercury	107009-01-03 11:16 G	40805296.84	40805296.97	40805297.10	0.0089	0.0066
Mercury	107009-04-01 14:37 G	40805385.03	40805385.11	40805385.23	0.0089	0.0077
Mercury	107009-06-28 18:42 G	40805473.24	40805473.28	40805473.33	0.0090	0.0087
Earth	107019-11-30 19:25 G	40809280.20	40809280.31	40809280.47	0.0090	0.0076
Moon	107019-11-30 23:01 G	40809280.37	40809280.46	40809280.60	0.0090	0.0080 *
Moon	107020-12-02 05:16 G	40809647.53	40809647.72	40809647.94	0.0090	0.0051
Earth	107020-12-02 07:54 G	40809647.63	40809647.83	40809648.04	0.0090	0.0054 *
Venus	107021-01-27 07:25 G	40809703.79	40809703.81	40809703.88	0.0090	0.0088
Venus	107021-09-09 20:37 G	40809929.26	40809929.36	40809929.48	0.0090	0.0077
Earth	107021-12-04 19:11 G	40810015.08	40810015.30	40810015.55	0.0090	0.0033
Moon	107021-12-04 21:06 G	40810015.15	40810015.38	40810015.63	0.0090	0.0037 *
Venus	107022-04-23 09:06 G	40810154.75	40810154.88	40810155.04	0.0090	0.0067
Venus	107022-12-04 21:35 G	40810380.25	40810380.40	40810380.58	0.0090	0.0057
Earth	107022-12-07 07:25 G	40810382.55	40810382.81	40810383.06	0.0090	0.0011
Moon	107022-12-07 07:11 G	40810382.56	40810382.80	40810383.05	0.0090	0.0007 *
Venus	107023-07-18 10:04 G	40810605.76	40810605.92	40810606.12	0.0090	0.0047
Moon	107023-12-09 17:30 G	40810749.97	40810750.23	40810750.50	0.0090	0.0007
Earth	107023-12-09 18:56 G	40810750.04	40810750.29	40810750.55	0.0090	0.0011 *
Venus	107024-02-28 23:01 G	40810831.27	40810831.46	40810831.66	0.0090	0.0036
Venus	107024-10-11 11:44 G	40811056.79	40811056.99	40811057.20	0.0090	0.0026
Earth	107024-12-11 06:13 G	40811117.54	40811117.76	40811118.01	0.0090	0.0032
Moon	107024-12-11 08:37 G	40811117.63	40811117.86	40811118.09	0.0090	0.0036 *
Venus	107025-05-25 00:13 G	40811282.31	40811282.51	40811282.73	0.0090	0.0016
Moon	107025-12-13 14:37 G	40811484.90	40811485.11	40811485.33	0.0090	0.0049
Earth	107025-12-13 17:44 G	40811485.06	40811485.24	40811485.46	0.0090	0.0054 *
Venus	107026-01-05 12:56 G	40811507.83	40811508.04	40811508.26	0.0090	0.0005
Venus	107026-08-19 01:25 G	40811733.35	40811733.56	40811733.78	0.0090	0.0006
Earth	107026-12-16 05:16 G	40811852.60	40811852.72	40811852.88	0.0090	0.0075



Moon	107026-12-16 08:37 G	40811852.76	40811852.86	40811853.01	0.0090	0.0079 *
Venus	107027-04-01 13:54 G	40811958.88	40811959.08	40811959.30	0.0090	0.0016
Venus	107027-11-13 02:37 G	40812184.41	40812184.61	40812184.82	0.0090	0.0026
Venus	107028-06-25 14:52 G	40812409.94	40812410.12	40812410.34	0.0090	0.0037
Venus	107029-02-06 03:35 G	40812635.48	40812635.65	40812635.85	0.0090	0.0047
Venus	107029-09-19 16:18 G	40812861.03	40812861.18	40812861.36	0.0090	0.0057
Venus	107030-05-03 05:01 G	40813086.57	40813086.71	40813086.86	0.0090	0.0067
Venus	107030-12-14 17:44 G	40813312.13	40813312.24	40813312.35	0.0090	0.0077
Venus	107031-07-28 05:30 G	40813537.71	40813537.73	40813537.81	0.0090	0.0088
Jupiter	107055-08-29 02:37 G	40822335.31	40822335.61	40822336.02	0.0089	0.0066
Mars	107055-11-17 12:56 G	40822415.80	40822416.04	40822416.32	0.0089	0.0036
Mars	107057-10-10 22:32 G	40823109.25	40823109.44	40823109.69	0.0089	0.0058
Mercury	107085-12-17 21:20 G	40833404.37	40833404.39	40833404.42	0.0088	0.0085
Mercury	107086-03-15 22:18 G	40833492.39	40833492.43	40833492.51	0.0088	0.0079
Mercury	107086-06-11 23:44 G	40833580.43	40833580.49	40833580.58	0.0088	0.0072
Mercury	107086-09-08 01:11 G	40833668.47	40833668.55	40833668.65	0.0088	0.0065
Mercury	107086-12-05 02:37 G	40833756.51	40833756.61	40833756.71	0.0088	0.0058
Mercury	107087-03-03 04:04 G	40833844.56	40833844.67	40833844.77	0.0088	0.0051
Mercury	107087-05-30 05:01 G	40833932.60	40833932.71	40833932.83	0.0088	0.0045
Mercury	107087-08-26 06:28 G	40834020.65	40834020.77	40834020.89	0.0088	0.0038
Mercury	107087-11-22 07:40 G	40834108.70	40834108.82	40834108.95	0.0088	0.0031
Mercury	107088-02-18 09:06 G	40834196.75	40834196.88	40834197.01	0.0088	0.0024
Mercury	107088-05-16 10:18 G	40834284.80	40834284.93	40834285.06	0.0088	0.0018
Mercury	107088-08-12 11:44 G	40834372.86	40834372.99	40834373.12	0.0088	0.0011
Mercury	107088-11-08 12:56 G	40834460.91	40834461.04	40834461.18	0.0088	0.0004
Mercury	107089-02-04 14:23 G	40834548.96	40834549.10	40834549.23	0.0088	0.0004
Mercury	107089-05-03 15:35 G	40834637.02	40834637.15	40834637.28	0.0088	0.0009
Mercury	107089-07-30 16:47 G	40834725.07	40834725.20	40834725.33	0.0088	0.0016
Mercury	107089-10-26 17:59 G	40834813.13	40834813.25	40834813.38	0.0088	0.0023
Mercury	107090-01-22 19:11 G	40834901.19	40834901.30	40834901.44	0.0088	0.0030

Mercury	107090-04-20 20:37 G	40834989.24	40834989.36	40834989.48	0.0088	0.0036
Mercury	107090-07-17 21:49 G	40835077.30	40835077.41	40835077.53	0.0088	0.0043
Mercury	107090-10-13 23:01 G	40835165.36	40835165.46	40835165.58	0.0088	0.0050
Mercury	107091-01-10 00:28 G	40835253.42	40835253.52	40835253.62	0.0088	0.0056
Mercury	107091-04-08 01:40 G	40835341.48	40835341.57	40835341.67	0.0088	0.0063
Mercury	107091-07-05 02:52 G	40835429.55	40835429.62	40835429.71	0.0088	0.0070
Mercury	107091-10-01 04:18 G	40835517.62	40835517.68	40835517.74	0.0088	0.0076
Mercury	107091-12-28 05:16 G	40835605.69	40835605.72	40835605.77	0.0088	0.0083
Moon	107101-05-29 07:25 G	40839044.80	40839044.81	40839044.88	0.0088	0.0087
Earth	107101-05-29 11:01 G	40839044.92	40839044.96	40839045.08	0.0088	0.0084
Earth	107102-05-31 23:01 G	40839412.29	40839412.46	40839412.65	0.0088	0.0063
Moon	107102-06-01 01:54 G	40839412.42	40839412.58	40839412.80	0.0088	0.0061 *
Venus	107103-03-14 23:16 G	40839699.44	40839699.47	40839699.51	0.0088	0.0086
Moon	107103-06-03 07:54 G	40839779.63	40839779.83	40839780.06	0.0088	0.0046
Earth	107103-06-03 10:18 G	40839779.72	40839779.93	40839780.18	0.0088	0.0043 *
Venus	107103-10-26 11:59 G	40839924.92	40839925.00	40839925.14	0.0088	0.0077
Earth	107104-06-04 22:18 G	40840147.18	40840147.43	40840147.68	0.0088	0.0022
Moon	107104-06-04 23:59 G	40840147.24	40840147.50	40840147.77	0.0088	0.0019 *
Venus	107104-06-08 01:25 G	40840150.44	40840150.56	40840150.73	0.0088	0.0067
Venus	107105-01-19 14:52 G	40840375.97	40840376.12	40840376.31	0.0088	0.0057
Earth	107105-06-07 10:04 G	40840514.66	40840514.92	40840515.18	0.0088	0.0001
Moon	107105-06-07 10:18 G	40840514.67	40840514.93	40840515.18	0.0088	0.0004 *
Venus	107105-09-02 04:18 G	40840601.51	40840601.68	40840601.89	0.0088	0.0047
Venus	107106-04-15 17:59 G	40840827.06	40840827.25	40840827.47	0.0088	0.0037
Moon	107106-06-09 20:08 G	40840882.09	40840882.34	40840882.62	0.0088	0.0022
Earth	107106-06-09 21:35 G	40840882.15	40840882.40	40840882.66	0.0088	0.0019 *
Venus	107106-11-27 07:25 G	40841052.61	40841052.81	40841053.04	0.0088	0.0027
Earth	107107-06-12 09:06 G	40841249.66	40841249.88	40841250.12	0.0088	0.0040
Moon	107107-06-12 11:16 G	40841249.75	40841249.97	40841250.22	0.0088	0.0037 *
Venus	107107-07-10 20:52 G	40841278.16	40841278.37	40841278.61	0.0088	0.0017

Venus	107108-02-21 10:32 G	40841503.72	40841503.94	40841504.17	0.0088	0.0006
Moon	107108-06-13 17:01 G	40841617.05	40841617.21	40841617.42	0.0088	0.0063
Earth	107108-06-13 20:37 G	40841617.20	40841617.36	40841617.57	0.0088	0.0061 *
Venus	107108-10-04 00:13 G	40841729.28	40841729.51	40841729.73	0.0088	0.0004
Venus	107109-05-17 13:40 G	40841954.85	40841955.07	40841955.29	0.0088	0.0014
Earth	107109-06-16 08:23 G	40841984.77	40841984.85	40841984.97	0.0088	0.0081
Moon	107109-06-16 11:59 G	40841984.90	40841985.00	40841985.13	0.0088	0.0078 *
Venus	107109-12-29 03:06 G	40842180.41	40842180.63	40842180.84	0.0088	0.0024
Venus	107110-08-11 16:04 G	40842405.98	40842406.17	40842406.39	0.0088	0.0035
Venus	107111-03-25 05:30 G	40842631.56	40842631.73	40842631.95	0.0088	0.0045
Venus	107111-11-05 18:56 G	40842857.14	40842857.29	40842857.49	0.0088	0.0055
Venus	107112-06-18 08:23 G	40843082.72	40843082.85	40843083.02	0.0088	0.0065
Venus	107113-01-29 22:18 G	40843308.31	40843308.43	40843308.55	0.0088	0.0074
Venus	107113-09-12 11:30 G	40843533.93	40843533.98	40843534.05	0.0088	0.0084
Mars	107139-08-17 15:35 G	40853003.81	40853004.15	40853004.50	0.0088	0.0015
Mercury	107170-02-17 02:23 G	40864145.55	40864145.60	40864145.67	0.0089	0.0085
Mercury	107170-05-16 05:44 G	40864233.66	40864233.74	40864233.87	0.0089	0.0075
Mercury	107170-08-12 09:20 G	40864321.78	40864321.89	40864322.05	0.0089	0.0065
Mercury	107170-11-08 13:25 G	40864409.91	40864410.06	40864410.22	0.0089	0.0054
Mercury	107171-02-04 17:01 G	40864498.05	40864498.21	40864498.39	0.0089	0.0044
Mercury	107171-05-03 20:37 G	40864586.19	40864586.36	40864586.55	0.0089	0.0034
Mercury	107171-07-31 00:13 G	40864674.34	40864674.51	40864674.71	0.0089	0.0024
Mercury	107171-10-27 04:18 G	40864762.49	40864762.68	40864762.87	0.0089	0.0012
Mercury	107172-01-23 07:54 G	40864850.64	40864850.83	40864851.03	0.0089	0.0002
Mercury	107172-04-20 11:30 G	40864938.79	40864938.98	40864939.18	0.0089	0.0009
Mercury	107172-07-17 15:20 G	40865026.95	40865027.14	40865027.33	0.0089	0.0019
Mercury	107172-10-13 18:56 G	40865115.11	40865115.29	40865115.48	0.0089	0.0029
Mercury	107173-01-09 22:32 G	40865203.28	40865203.44	40865203.63	0.0089	0.0040
Mercury	107173-04-08 02:08 G	40865291.45	40865291.59	40865291.77	0.0089	0.0051
Mercury	107173-07-05 05:59 G	40865379.62	40865379.75	40865379.91	0.0089	0.0061

Mercury	107173-10-01 10:04 G	40865467.80	40865467.92	40865468.04	0.0089	0.0071
Mercury	107173-12-28 13:25 G	40865556.00	40865556.06	40865556.15	0.0089	0.0082
Moon	107183-12-01 01:54 G	40869180.50	40869180.58	40869180.74	0.0090	0.0080
Earth	107183-12-01 04:47 G	40869180.64	40869180.70	40869180.82	0.0090	0.0084 *
Earth	107184-12-02 16:47 G	40869548.04	40869548.20	40869548.41	0.0090	0.0062
Moon	107184-12-02 19:54 G	40869548.18	40869548.33	40869548.52	0.0090	0.0066 *
Venus	107185-05-01 19:11 G	40869698.30	40869698.30	40869698.33	0.0090	0.0089
Moon	107185-12-05 01:11 G	40869915.33	40869915.55	40869915.80	0.0090	0.0036
Earth	107185-12-05 04:47 G	40869915.49	40869915.70	40869915.95	0.0090	0.0041 *
Venus	107185-12-13 08:08 G	40869923.74	40869923.84	40869923.94	0.0090	0.0079
Venus	107186-07-26 20:37 G	40870149.23	40870149.36	40870149.50	0.0090	0.0069
Earth	107186-12-07 16:47 G	40870282.96	40870283.20	40870283.46	0.0090	0.0019
Moon	107186-12-07 20:08 G	40870283.10	40870283.34	40870283.60	0.0090	0.0023 *
Venus	107187-03-09 09:06 G	40870374.73	40870374.88	40870375.06	0.0090	0.0059
Venus	107187-10-20 21:49 G	40870600.24	40870600.41	40870600.61	0.0090	0.0049
Moon	107187-12-10 01:54 G	40870650.34	40870650.58	40870650.83	0.0090	0.0007
Earth	107187-12-10 04:32 G	40870650.44	40870650.69	40870650.95	0.0090	0.0003 *
Venus	107188-06-02 10:47 G	40870825.75	40870825.95	40870826.14	0.0090	0.0038
Earth	107188-12-11 16:04 G	40871017.93	40871018.17	40871018.42	0.0090	0.0025
Moon	107188-12-11 18:13 G	40871018.00	40871018.26	40871018.52	0.0090	0.0020 *
Venus	107189-01-13 23:16 G	40871051.27	40871051.47	40871051.68	0.0090	0.0028
Venus	107189-08-27 11:44 G	40871276.79	40871276.99	40871277.21	0.0090	0.0018
Earth	107189-12-14 03:35 G	40871385.44	40871385.65	40871385.88	0.0090	0.0046
Moon	107189-12-14 03:35 G	40871385.45	40871385.65	40871385.86	0.0090	0.0050 *
Venus	107190-04-10 00:28 G	40871502.31	40871502.52	40871502.74	0.0090	0.0007
Venus	107190-11-21 12:56 G	40871727.83	40871728.04	40871728.26	0.0090	0.0004
Moon	107190-12-16 13:54 G	40871752.92	40871753.08	40871753.29	0.0090	0.0064
Earth	107190-12-16 14:52 G	40871752.98	40871753.12	40871753.31	0.0090	0.0068 *
Venus	107191-07-05 01:25 G	40871953.35	40871953.56	40871953.78	0.0090	0.0014
Earth	107191-12-19 02:23 G	40872120.59	40872120.60	40872120.66	0.0090	0.0089

Venus	107192-02-15 13:54 G	40872178.88	40872179.08	40872179.30	0.0090	0.0024
Venus	107192-09-28 02:52 G	40872404.42	40872404.62	40872404.82	0.0090	0.0034
Venus	107193-05-11 14:52 G	40872629.96	40872630.12	40872630.33	0.0090	0.0045
Venus	107193-12-23 03:35 G	40872855.49	40872855.65	40872855.83	0.0090	0.0055
Venus	107194-08-05 16:04 G	40873081.04	40873081.17	40873081.33	0.0090	0.0065
Venus	107195-03-19 04:47 G	40873306.59	40873306.70	40873306.83	0.0090	0.0075
Venus	107195-10-30 17:30 G	40873532.17	40873532.23	40873532.30	0.0090	0.0085
Mars	107219-07-04 06:42 G	40882179.61	40882179.78	40882179.97	0.0089	0.0069
Mars	107221-05-27 15:49 G	40882872.91	40882873.16	40882873.45	0.0089	0.0025
Mercury	107250-09-14 21:06 G	40893575.34	40893575.38	40893575.43	0.0088	0.0082
Mercury	107250-12-11 22:32 G	40893663.37	40893663.44	40893663.51	0.0088	0.0075
Mercury	107251-03-09 23:59 G	40893751.41	40893751.50	40893751.58	0.0088	0.0068
Mercury	107251-06-06 00:56 G	40893839.46	40893839.54	40893839.64	0.0088	0.0062
Mercury	107251-09-02 02:23 G	40893927.50	40893927.60	40893927.71	0.0088	0.0055
Mercury	107251-11-29 03:35 G	40894015.55	40894015.65	40894015.77	0.0088	0.0048
Mercury	107252-02-25 05:01 G	40894103.60	40894103.71	40894103.83	0.0088	0.0041
Mercury	107252-05-23 06:13 G	40894191.64	40894191.76	40894191.89	0.0088	0.0035
Mercury	107252-08-19 07:40 G	40894279.69	40894279.82	40894279.95	0.0088	0.0028
Mercury	107252-11-15 08:52 G	40894367.74	40894367.87	40894368.00	0.0088	0.0021
Mercury	107253-02-11 10:18 G	40894455.80	40894455.93	40894456.06	0.0088	0.0014
Mercury	107253-05-10 11:30 G	40894543.85	40894543.98	40894544.11	0.0088	0.0008
Mercury	107253-08-06 12:56 G	40894631.90	40894632.04	40894632.17	0.0088	0.0003
Mercury	107253-11-02 14:08 G	40894719.96	40894720.09	40894720.22	0.0088	0.0006
Mercury	107254-01-29 15:20 G	40894808.01	40894808.14	40894808.27	0.0088	0.0013
Mercury	107254-04-27 16:47 G	40894896.07	40894896.20	40894896.33	0.0088	0.0019
Mercury	107254-07-24 17:59 G	40894984.12	40894984.25	40894984.38	0.0088	0.0026
Mercury	107254-10-20 19:11 G	40895072.18	40895072.30	40895072.43	0.0088	0.0033
Mercury	107255-01-16 20:23 G	40895160.24	40895160.35	40895160.47	0.0088	0.0039
Mercury	107255-04-14 21:35 G	40895248.30	40895248.40	40895248.52	0.0088	0.0046
Mercury	107255-07-11 22:47 G	40895336.36	40895336.45	40895336.57	0.0088	0.0053

Mercury	107255-10-08 00:13 G	40895424.42	40895424.51	40895424.61	0.0088	0.0059
Mercury	107256-01-04 01:25 G	40895512.48	40895512.56	40895512.65	0.0088	0.0066
Mercury	107256-04-01 02:37 G	40895600.55	40895600.61	40895600.69	0.0088	0.0073
Mercury	107256-06-28 04:04 G	40895688.62	40895688.67	40895688.73	0.0088	0.0079
Mercury	107256-09-24 05:01 G	40895776.70	40895776.71	40895776.75	0.0088	0.0086
Moon	107266-05-31 05:30 G	40899312.60	40899312.73	40899312.90	0.0088	0.0072
Earth	107266-05-31 08:23 G	40899312.71	40899312.85	40899313.02	0.0088	0.0070 *
Earth	107267-06-02 19:40 G	40899680.13	40899680.32	40899680.56	0.0088	0.0050
Moon	107267-06-02 22:47 G	40899680.26	40899680.45	40899680.69	0.0088	0.0047 *
Venus	107268-01-27 22:32 G	40899919.35	40899919.44	40899919.55	0.0088	0.0078
Moon	107268-06-04 03:49 G	40900047.43	40900047.66	40900047.91	0.0088	0.0032
Earth	107268-06-04 07:40 G	40900047.58	40900047.82	40900048.07	0.0088	0.0029 *
Venus	107268-09-09 12:13 G	40900144.87	40900145.01	40900145.15	0.0088	0.0068
Venus	107269-04-23 01:40 G	40900370.40	40900370.57	40900370.74	0.0088	0.0058
Earth	107269-06-06 19:11 G	40900415.04	40900415.30	40900415.56	0.0088	0.0009
Moon	107269-06-06 22:32 G	40900415.17	40900415.44	40900415.70	0.0088	0.0006 *
Venus	107269-12-04 14:37 G	40900595.94	40900596.11	40900596.31	0.0088	0.0049
Moon	107270-06-09 04:04 G	40900782.42	40900782.67	40900782.93	0.0088	0.0009
Earth	107270-06-09 06:42 G	40900782.53	40900782.78	40900783.05	0.0088	0.0013 *
Venus	107270-07-18 04:04 G	40900821.48	40900821.67	40900821.89	0.0088	0.0039
Venus	107271-02-28 17:59 G	40901047.03	40901047.25	40901047.46	0.0088	0.0028
Earth	107271-06-11 18:13 G	40901150.03	40901150.26	40901150.52	0.0088	0.0033
Moon	107271-06-11 19:54 G	40901150.09	40901150.33	40901150.59	0.0088	0.0036 *
Venus	107271-10-12 07:25 G	40901272.59	40901272.81	40901273.03	0.0088	0.0018
Venus	107272-05-24 20:52 G	40901498.14	40901498.37	40901498.59	0.0088	0.0008
Earth	107272-06-13 05:59 G	40901517.56	40901517.75	40901517.97	0.0088	0.0054
Moon	107272-06-13 05:44 G	40901517.56	40901517.74	40901517.97	0.0088	0.0052 *
Venus	107273-01-05 10:18 G	40901723.70	40901723.93	40901724.15	0.0088	0.0002
Moon	107273-06-15 17:01 G	40901885.10	40901885.21	40901885.36	0.0088	0.0077
Earth	107273-06-15 17:59 G	40901885.12	40901885.25	40901885.40	0.0088	0.0074 *

Venus	107273-08-18 23:30 G	40901949.27	40901949.48	40901949.71	0.0088	0.0013
Venus	107274-04-01 12:56 G	40902174.84	40902175.04	40902175.27	0.0088	0.0023
Venus	107274-11-13 02:23 G	40902400.41	40902400.60	40902400.83	0.0088	0.0033
Venus	107275-06-26 15:49 G	40902625.98	40902626.16	40902626.37	0.0088	0.0043
Venus	107276-02-07 05:16 G	40902851.56	40902851.72	40902851.92	0.0088	0.0053
Venus	107276-09-19 18:42 G	40903077.14	40903077.28	40903077.46	0.0088	0.0063
Venus	107277-05-03 08:08 G	40903302.74	40903302.84	40903302.99	0.0088	0.0073
Venus	107277-12-14 21:35 G	40903528.35	40903528.40	40903528.50	0.0088	0.0083
Mars	107303-03-31 21:49 G	40912765.16	40912765.41	40912765.71	0.0088	0.0055
Mars	107305-02-25 12:28 G	40913461.79	40913462.02	40913462.31	0.0088	0.0060
Mercury	107334-11-15 00:56 G	40924316.47	40924316.54	40924316.64	0.0089	0.0080
Mercury	107335-02-11 04:32 G	40924404.58	40924404.69	40924404.82	0.0089	0.0070
Mercury	107335-05-10 08:08 G	40924492.71	40924492.84	40924493.00	0.0089	0.0060
Mercury	107335-08-06 11:44 G	40924580.85	40924580.99	40924581.17	0.0089	0.0050
Mercury	107335-11-02 15:49 G	40924668.98	40924669.16	40924669.33	0.0089	0.0039
Mercury	107336-01-29 19:25 G	40924757.13	40924757.31	40924757.50	0.0089	0.0028
Mercury	107336-04-26 23:01 G	40924845.28	40924845.46	40924845.66	0.0089	0.0018
Mercury	107336-07-24 02:52 G	40924933.43	40924933.62	40924933.81	0.0089	0.0008
Mercury	107336-10-20 06:28 G	40925021.58	40925021.77	40925021.97	0.0089	0.0003
Mercury	107337-01-16 10:04 G	40925109.73	40925109.92	40925110.12	0.0089	0.0013
Mercury	107337-04-14 13:54 G	40925197.89	40925198.08	40925198.27	0.0089	0.0023
Mercury	107337-07-11 17:44 G	40925286.06	40925286.24	40925286.42	0.0089	0.0034
Mercury	107337-10-07 21:06 G	40925374.22	40925374.38	40925374.56	0.0089	0.0045
Mercury	107338-01-04 00:56 G	40925462.39	40925462.54	40925462.70	0.0089	0.0055
Mercury	107338-04-02 04:32 G	40925550.57	40925550.69	40925550.84	0.0089	0.0066
Mercury	107338-06-29 08:23 G	40925638.76	40925638.85	40925638.96	0.0089	0.0076
Mercury	107338-09-25 11:44 G	40925726.97	40925726.99	40925727.07	0.0089	0.0087
Earth	107348-12-03 02:37 G	40929448.47	40929448.61	40929448.79	0.0090	0.0070
Moon	107348-12-03 03:35 G	40929448.48	40929448.65	40929448.84	0.0090	0.0065 *
Earth	107349-12-05 14:52 G	40929815.92	40929816.12	40929816.35	0.0090	0.0048

Moon	107349-12-05 16:18 G	40929815.98	40929816.18	40929816.38	0.0090	0.0052	*
Venus	107350-03-17 19:40 G	40929918.24	40929918.32	40929918.42	0.0090	0.0081	
Venus	107350-10-29 08:08 G	40930143.73	40930143.84	40930143.99	0.0090	0.0071	
Moon	107350-12-08 00:13 G	40930183.27	40930183.51	40930183.78	0.0090	0.0023	
Earth	107350-12-08 03:06 G	40930183.39	40930183.63	40930183.87	0.0090	0.0026	*
Venus	107351-06-11 20:52 G	40930369.23	40930369.37	40930369.55	0.0090	0.0061	
Earth	107351-12-10 14:52 G	40930550.86	40930551.12	40930551.37	0.0090	0.0004	
Moon	107351-12-10 17:44 G	40930550.99	40930551.24	40930551.49	0.0090	0.0009	*
Venus	107352-01-23 09:35 G	40930594.74	40930594.90	40930595.09	0.0090	0.0051	
Venus	107352-09-04 22:32 G	40930820.25	40930820.44	40930820.64	0.0090	0.0040	
Moon	107352-12-11 22:32 G	40930918.20	40930918.44	40930918.70	0.0090	0.0022	
Earth	107352-12-12 02:23 G	40930918.36	40930918.60	40930918.86	0.0090	0.0017	*
Venus	107353-04-18 11:01 G	40931045.77	40931045.96	40931046.17	0.0090	0.0030	
Venus	107353-11-29 23:44 G	40931271.28	40931271.49	40931271.71	0.0090	0.0019	
Earth	107353-12-14 13:54 G	40931285.86	40931286.08	40931286.32	0.0090	0.0039	
Moon	107353-12-14 17:16 G	40931285.99	40931286.22	40931286.47	0.0090	0.0035	*
Venus	107354-07-13 12:28 G	40931496.80	40931497.02	40931497.23	0.0090	0.0009	
Moon	107354-12-16 22:32 G	40931653.28	40931653.44	40931653.62	0.0090	0.0065	
Earth	107354-12-17 01:11 G	40931653.39	40931653.55	40931653.77	0.0090	0.0061	*
Venus	107355-02-24 00:56 G	40931722.32	40931722.54	40931722.76	0.0090	0.0001	
Venus	107355-10-07 13:25 G	40931947.86	40931948.06	40931948.28	0.0090	0.0012	
Earth	107355-12-19 12:42 G	40932020.95	40932021.03	40932021.15	0.0090	0.0082	
Moon	107355-12-19 15:06 G	40932021.00	40932021.13	40932021.26	0.0090	0.0077	*
Venus	107356-05-20 02:08 G	40932173.38	40932173.59	40932173.80	0.0090	0.0022	
Venus	107356-12-31 14:37 G	40932398.91	40932399.11	40932399.31	0.0090	0.0032	
Venus	107357-08-14 02:52 G	40932624.44	40932624.62	40932624.82	0.0090	0.0043	
Venus	107358-03-27 15:20 G	40932849.98	40932850.14	40932850.33	0.0090	0.0053	
Venus	107358-11-08 04:04 G	40933075.53	40933075.67	40933075.83	0.0090	0.0063	
Venus	107359-06-21 16:32 G	40933301.08	40933301.19	40933301.33	0.0090	0.0073	
Venus	107360-02-02 05:01 G	40933526.65	40933526.71	40933526.80	0.0090	0.0083	



Mars	107385-01-11 11:30 G	40942636.71	40942636.98	40942637.27	0.0089	0.0008
Mars	107386-12-05 20:23 G	40943330.28	40943330.35	40943330.44	0.0089	0.0085
Mercury	107415-03-17 19:25 G	40953658.30	40953658.31	40953658.35	0.0088	0.0086
Mercury	107415-06-13 20:52 G	40953746.32	40953746.37	40953746.44	0.0088	0.0079
Mercury	107415-09-09 22:04 G	40953834.36	40953834.42	40953834.51	0.0088	0.0072
Mercury	107415-12-06 23:30 G	40953922.40	40953922.48	40953922.58	0.0088	0.0065
Mercury	107416-03-04 00:56 G	40954010.44	40954010.54	40954010.64	0.0088	0.0058
Mercury	107416-05-31 02:23 G	40954098.49	40954098.60	40954098.71	0.0088	0.0051
Mercury	107416-08-27 03:20 G	40954186.54	40954186.64	40954186.77	0.0088	0.0045
Mercury	107416-11-23 04:47 G	40954274.59	40954274.70	40954274.83	0.0088	0.0038
Mercury	107417-02-19 06:13 G	40954362.64	40954362.76	40954362.89	0.0088	0.0031
Mercury	107417-05-18 07:25 G	40954450.69	40954450.81	40954450.94	0.0088	0.0025
Mercury	107417-08-14 08:52 G	40954538.74	40954538.87	40954539.00	0.0088	0.0018
Mercury	107417-11-10 10:04 G	40954626.79	40954626.92	40954627.06	0.0088	0.0011
Mercury	107418-02-06 11:30 G	40954714.84	40954714.98	40954715.11	0.0088	0.0004
Mercury	107418-05-05 12:42 G	40954802.90	40954803.03	40954803.16	0.0088	0.0003
Mercury	107418-08-01 13:54 G	40954890.95	40954891.08	40954891.22	0.0088	0.0010
Mercury	107418-10-28 15:20 G	40954979.01	40954979.14	40954979.27	0.0088	0.0016
Mercury	107419-01-24 16:32 G	40955067.06	40955067.19	40955067.32	0.0088	0.0023
Mercury	107419-04-22 17:44 G	40955155.12	40955155.24	40955155.37	0.0088	0.0030
Mercury	107419-07-19 19:11 G	40955243.18	40955243.30	40955243.42	0.0088	0.0036
Mercury	107419-10-15 20:23 G	40955331.24	40955331.35	40955331.47	0.0088	0.0043
Mercury	107420-01-11 21:20 G	40955419.30	40955419.39	40955419.51	0.0088	0.0050
Mercury	107420-04-08 22:47 G	40955507.36	40955507.45	40955507.56	0.0088	0.0056
Mercury	107420-07-05 23:59 G	40955595.42	40955595.50	40955595.60	0.0088	0.0063
Mercury	107420-10-02 01:25 G	40955683.48	40955683.56	40955683.64	0.0088	0.0069
Mercury	107420-12-29 02:37 G	40955771.55	40955771.61	40955771.68	0.0088	0.0076
Mercury	107421-03-27 03:35 G	40955859.63	40955859.65	40955859.71	0.0088	0.0083
Moon	107430-06-01 16:47 G	40959213.08	40959213.20	40959213.35	0.0088	0.0074
Earth	107430-06-01 18:28 G	40959213.17	40959213.27	40959213.41	0.0088	0.0077 *

Earth	107431-06-04 05:44 G	40959580.57	40959580.74	40959580.96	0.0088	0.0057
Moon	107431-06-04 06:13 G	40959580.59	40959580.76	40959580.98	0.0088	0.0060 *
Venus	107432-05-02 09:06 G	40959913.81	40959913.88	40959913.99	0.0088	0.0080
Earth	107432-06-05 17:30 G	40959948.00	40959948.23	40959948.48	0.0088	0.0036
Moon	107432-06-05 18:56 G	40959948.06	40959948.29	40959948.52	0.0088	0.0033 *
Venus	107432-12-13 22:32 G	40960139.32	40960139.44	40960139.59	0.0088	0.0070
Moon	107433-06-08 03:06 G	40960315.37	40960315.63	40960315.89	0.0088	0.0018
Earth	107433-06-08 05:16 G	40960315.46	40960315.72	40960315.97	0.0088	0.0015 *
Venus	107433-07-27 11:44 G	40960364.84	40960364.99	40960365.17	0.0088	0.0060
Venus	107434-03-10 01:25 G	40960590.38	40960590.56	40960590.75	0.0088	0.0050
Earth	107434-06-10 16:32 G	40960682.93	40960683.19	40960683.45	0.0088	0.0005
Moon	107434-06-10 19:40 G	40960683.06	40960683.32	40960683.57	0.0088	0.0009 *
Venus	107434-10-21 14:37 G	40960815.92	40960816.11	40960816.32	0.0088	0.0040
Venus	107435-06-04 04:04 G	40961041.47	40961041.67	40961041.89	0.0088	0.0030
Moon	107435-06-13 00:13 G	40961050.27	40961050.51	40961050.78	0.0088	0.0024
Earth	107435-06-13 04:18 G	40961050.43	40961050.68	40961050.93	0.0088	0.0026 *
Venus	107436-01-15 17:30 G	40961267.01	40961267.23	40961267.45	0.0088	0.0020
Earth	107436-06-14 15:20 G	40961417.94	40961418.14	40961418.38	0.0088	0.0047
Moon	107436-06-14 19:11 G	40961418.09	40961418.30	40961418.52	0.0088	0.0050 *
Venus	107436-08-28 06:56 G	40961492.57	40961492.79	40961493.01	0.0088	0.0010
Venus	107437-04-10 20:37 G	40961718.13	40961718.36	40961718.58	0.0088	0.0001
Moon	107437-06-16 23:59 G	40961785.34	40961785.50	40961785.69	0.0088	0.0064
Earth	107437-06-17 02:52 G	40961785.48	40961785.62	40961785.81	0.0088	0.0068 *
Venus	107437-11-22 09:49 G	40961943.69	40961943.91	40961944.14	0.0088	0.0011
Venus	107438-07-05 23:16 G	40962169.26	40962169.47	40962169.69	0.0088	0.0020
Venus	107439-02-16 12:28 G	40962394.83	40962395.02	40962395.25	0.0088	0.0031
Venus	107439-09-30 01:54 G	40962620.40	40962620.58	40962620.80	0.0088	0.0041
Venus	107440-05-12 15:35 G	40962845.98	40962846.15	40962846.35	0.0088	0.0051
Venus	107440-12-24 05:01 G	40963071.56	40963071.71	40963071.89	0.0088	0.0061
Venus	107441-08-06 18:28 G	40963297.16	40963297.27	40963297.42	0.0088	0.0071

Venus	107442-03-20 07:54 G	40963522.77	40963522.83	40963522.94	0.0088	0.0081
Mars	107468-10-09 20:08 G	40973223.02	40973223.34	40973223.70	0.0088	0.0021
Mercury	107499-05-16 20:08 G	40984399.29	40984399.34	40984399.41	0.0089	0.0085
Mercury	107499-08-12 23:44 G	40984487.40	40984487.49	40984487.61	0.0089	0.0075
Mercury	107499-11-09 03:20 G	40984575.52	40984575.64	40984575.79	0.0089	0.0064
Mercury	107500-02-05 06:56 G	40984663.65	40984663.79	40984663.96	0.0089	0.0054
Mercury	107500-05-04 10:47 G	40984751.79	40984751.95	40984752.12	0.0089	0.0044
Mercury	107500-07-31 14:23 G	40984839.93	40984840.10	40984840.29	0.0089	0.0034
Mercury	107500-10-27 17:59 G	40984928.07	40984928.25	40984928.45	0.0089	0.0024
Mercury	107501-01-23 21:49 G	40985016.22	40985016.41	40985016.61	0.0089	0.0013
Mercury	107501-04-22 01:39 G	40985104.37	40985104.57	40985104.76	0.0089	0.0003
Mercury	107501-07-19 05:15 G	40985192.53	40985192.72	40985192.92	0.0089	0.0008
Mercury	107501-10-15 08:51 G	40985280.69	40985280.87	40985281.07	0.0089	0.0018
Mercury	107502-01-11 12:42 G	40985368.85	40985369.03	40985369.21	0.0089	0.0029
Mercury	107502-04-09 16:03 G	40985457.01	40985457.17	40985457.36	0.0089	0.0040
Mercury	107502-07-06 19:54 G	40985545.18	40985545.33	40985545.50	0.0089	0.0050
Mercury	107502-10-02 23:44 G	40985633.35	40985633.49	40985633.64	0.0089	0.0060
Mercury	107502-12-30 03:06 G	40985721.53	40985721.63	40985721.77	0.0089	0.0071
Mercury	107503-03-28 07:11 G	40985809.73	40985809.80	40985809.89	0.0089	0.0081
Moon	107512-12-04 08:51 G	40989348.79	40989348.87	40989348.99	0.0090	0.0082
Earth	107512-12-04 12:42 G	40989348.91	40989349.03	40989349.17	0.0090	0.0077 *
Earth	107513-12-07 00:13 G	40989716.34	40989716.51	40989716.73	0.0090	0.0056
Moon	107513-12-07 03:20 G	40989716.44	40989716.64	40989716.87	0.0090	0.0051 *
Venus	107514-06-21 06:56 G	40989912.73	40989912.79	40989912.89	0.0090	0.0083
Moon	107514-12-09 10:32 G	40990083.72	40990083.94	40990084.17	0.0090	0.0038
Earth	107514-12-09 12:27 G	40990083.80	40990084.02	40990084.27	0.0090	0.0034 *
Venus	107515-02-01 19:39 G	40990138.21	40990138.32	40990138.46	0.0090	0.0073
Venus	107515-09-15 08:23 G	40990363.72	40990363.85	40990364.02	0.0090	0.0063
Earth	107515-12-12 00:27 G	40990451.27	40990451.52	40990451.78	0.0090	0.0012
Moon	107515-12-12 01:39 G	40990451.31	40990451.57	40990451.83	0.0090	0.0007 *

Venus	107516-04-27 21:06 G	40990589.23	40990589.38	40990589.57	0.0090	0.0053
Venus	107516-12-09 10:03 G	40990814.74	40990814.92	40990815.12	0.0090	0.0042
Earth	107516-12-13 12:27 G	40990818.77	40990819.02	40990819.28	0.0090	0.0010
Moon	107516-12-13 13:11 G	40990818.80	40990819.05	40990819.30	0.0090	0.0006 *
Venus	107517-07-22 22:32 G	40991040.25	40991040.44	40991040.65	0.0090	0.0032
Moon	107517-12-15 22:32 G	40991186.21	40991186.44	40991186.69	0.0090	0.0036
Earth	107517-12-15 23:59 G	40991186.28	40991186.50	40991186.76	0.0090	0.0032 *
Venus	107518-03-05 11:15 G	40991265.77	40991265.97	40991266.19	0.0090	0.0022
Venus	107518-10-17 00:13 G	40991491.30	40991491.51	40991491.73	0.0090	0.0011
Earth	107518-12-18 11:59 G	40991553.79	40991554.00	40991554.20	0.0090	0.0053
Moon	107518-12-18 14:08 G	40991553.90	40991554.09	40991554.32	0.0090	0.0049 *
Venus	107519-05-30 12:56 G	40991716.82	40991717.04	40991717.25	0.0090	0.0001
Moon	107519-12-20 19:39 G	40991921.22	40991921.32	40991921.46	0.0090	0.0079
Earth	107519-12-20 23:01 G	40991921.35	40991921.46	40991921.63	0.0090	0.0075 *
Venus	107520-01-11 01:25 G	40991942.35	40991942.56	40991942.78	0.0090	0.0010
Venus	107520-08-23 13:54 G	40992167.87	40992168.08	40992168.29	0.0090	0.0020
Venus	107521-04-06 02:37 G	40992393.41	40992393.61	40992393.81	0.0090	0.0030
Venus	107521-11-17 14:51 G	40992618.94	40992619.12	40992619.33	0.0090	0.0041
Venus	107522-07-01 03:20 G	40992844.48	40992844.64	40992844.83	0.0090	0.0051
Venus	107523-02-11 15:49 G	40993070.02	40993070.16	40993070.33	0.0090	0.0061
Venus	107523-09-25 04:32 G	40993295.57	40993295.69	40993295.83	0.0090	0.0071
Venus	107524-05-07 17:15 G	40993521.14	40993521.22	40993521.31	0.0090	0.0081
Mars	107548-08-29 06:56 G	41002400.54	41002400.79	41002401.04	0.0089	0.0041
Mars	107550-07-23 15:20 G	41003093.92	41003094.14	41003094.38	0.0089	0.0053
Mercury	107579-12-13 19:25 G	41013829.27	41013829.31	41013829.36	0.0088	0.0082
Mercury	107580-03-10 20:51 G	41013917.30	41013917.37	41013917.44	0.0088	0.0075
Mercury	107580-06-06 21:49 G	41014005.34	41014005.41	41014005.51	0.0088	0.0069
Mercury	107580-09-02 23:15 G	41014093.39	41014093.47	41014093.58	0.0088	0.0062
Mercury	107580-11-30 00:42 G	41014181.43	41014181.53	41014181.64	0.0088	0.0055
Mercury	107581-02-26 02:08 G	41014269.48	41014269.59	41014269.70	0.0088	0.0048

Mercury	107581-05-25 03:35 G	41014357.53	41014357.65	41014357.76	0.0088	0.0041
Mercury	107581-08-21 04:32 G	41014445.58	41014445.69	41014445.82	0.0088	0.0035
Mercury	107581-11-17 05:59 G	41014533.63	41014533.75	41014533.88	0.0088	0.0028
Mercury	107582-02-13 07:25 G	41014621.68	41014621.81	41014621.94	0.0088	0.0021
Mercury	107582-05-12 08:37 G	41014709.73	41014709.86	41014710.00	0.0088	0.0014
Mercury	107582-08-08 10:03 G	41014797.79	41014797.92	41014798.05	0.0088	0.0008
Mercury	107582-11-04 11:15 G	41014885.84	41014885.97	41014886.11	0.0088	0.0002
Mercury	107583-01-31 12:42 G	41014973.89	41014974.03	41014974.16	0.0088	0.0006
Mercury	107583-04-29 13:54 G	41015061.95	41015062.08	41015062.21	0.0088	0.0013
Mercury	107583-07-26 15:06 G	41015150.00	41015150.13	41015150.26	0.0088	0.0019
Mercury	107583-10-22 16:18 G	41015238.06	41015238.18	41015238.31	0.0088	0.0026
Mercury	107584-01-18 17:44 G	41015326.12	41015326.24	41015326.36	0.0088	0.0033
Mercury	107584-04-15 18:42 G	41015414.18	41015414.28	41015414.41	0.0088	0.0040
Mercury	107584-07-12 20:08 G	41015502.23	41015502.34	41015502.46	0.0088	0.0046
Mercury	107584-10-08 21:20 G	41015590.29	41015590.39	41015590.50	0.0088	0.0053
Mercury	107585-01-04 22:47 G	41015678.36	41015678.45	41015678.55	0.0088	0.0059
Mercury	107585-04-02 23:59 G	41015766.42	41015766.50	41015766.59	0.0088	0.0066
Mercury	107585-06-30 01:11 G	41015854.48	41015854.55	41015854.63	0.0088	0.0073
Mercury	107585-09-26 02:37 G	41015942.55	41015942.61	41015942.66	0.0088	0.0079
Mercury	107585-12-23 03:35 G	41016030.64	41016030.65	41016030.69	0.0088	0.0086
Earth	107594-06-02 04:18 G	41019113.63	41019113.68	41019113.78	0.0088	0.0084
Moon	107595-06-04 12:27 G	41019480.85	41019481.02	41019481.22	0.0088	0.0060
Earth	107595-06-04 15:49 G	41019481.01	41019481.16	41019481.37	0.0088	0.0064 *
Earth	107596-06-06 03:35 G	41019848.44	41019848.65	41019848.89	0.0088	0.0043
Moon	107596-06-06 06:56 G	41019848.57	41019848.79	41019849.02	0.0088	0.0046 *
Venus	107596-08-04 19:54 G	41019908.26	41019908.33	41019908.43	0.0088	0.0081
Venus	107597-03-18 09:35 G	41020133.78	41020133.90	41020134.03	0.0088	0.0071
Moon	107597-06-08 12:56 G	41020215.79	41020216.04	41020216.29	0.0088	0.0018
Earth	107597-06-08 15:20 G	41020215.89	41020216.14	41020216.40	0.0088	0.0022 *
Venus	107597-10-29 22:32 G	41020359.30	41020359.44	41020359.62	0.0088	0.0062

Earth	107598-06-11 02:51 G	41020583.36	41020583.62	41020583.88	0.0088	0.0002
Moon	107598-06-11 03:49 G	41020583.39	41020583.66	41020583.93	0.0088	0.0005 *
Venus	107598-06-12 11:44 G	41020584.83	41020584.99	41020585.19	0.0088	0.0052
Venus	107599-01-24 01:11 G	41020810.37	41020810.55	41020810.76	0.0088	0.0042
Earth	107599-06-13 14:08 G	41020950.85	41020951.09	41020951.36	0.0088	0.0020
Moon	107599-06-13 14:37 G	41020950.88	41020951.11	41020951.37	0.0088	0.0023 *
Venus	107599-09-06 14:37 G	41021035.91	41021036.11	41021036.33	0.0088	0.0032
Venus	107600-04-19 04:03 G	41021261.47	41021261.67	41021261.90	0.0088	0.0022
Moon	107600-06-15 00:13 G	41021318.28	41021318.51	41021318.77	0.0088	0.0037
Earth	107600-06-15 01:54 G	41021318.35	41021318.58	41021318.82	0.0088	0.0040 *
Venus	107600-11-30 17:30 G	41021487.02	41021487.23	41021487.46	0.0088	0.0012
Earth	107601-06-17 13:11 G	41021685.88	41021686.05	41021686.26	0.0088	0.0061
Moon	107601-06-17 15:49 G	41021686.02	41021686.16	41021686.36	0.0088	0.0065 *
Venus	107601-07-14 07:11 G	41021712.57	41021712.80	41021713.02	0.0088	0.0002
Venus	107602-02-24 20:23 G	41021938.13	41021938.35	41021938.58	0.0088	0.0009
Moon	107602-06-19 21:49 G	41022053.30	41022053.41	41022053.53	0.0088	0.0078
Earth	107602-06-20 00:42 G	41022053.46	41022053.53	41022053.65	0.0088	0.0082 *
Venus	107602-10-08 09:49 G	41022163.70	41022163.91	41022164.14	0.0088	0.0019
Venus	107603-05-21 23:15 G	41022389.27	41022389.47	41022389.69	0.0088	0.0029
Venus	107604-01-02 12:42 G	41022614.84	41022615.03	41022615.24	0.0088	0.0039
Venus	107604-08-15 02:08 G	41022840.41	41022840.59	41022840.79	0.0088	0.0049
Venus	107605-03-28 15:49 G	41023066.00	41023066.16	41023066.33	0.0088	0.0059
Venus	107605-11-09 05:15 G	41023291.59	41023291.72	41023291.87	0.0088	0.0069
Venus	107606-06-22 18:27 G	41023517.20	41023517.27	41023517.39	0.0088	0.0079
Jupiter	107630-11-15 00:56 G	41032428.13	41032428.54	41032429.04	0.0088	0.0053
Mars	107632-05-24 02:23 G	41032984.27	41032984.60	41032984.96	0.0088	0.0020
Mercury	107663-11-15 15:35 G	41044482.15	41044482.15	41044482.16	0.0089	0.0089
Mercury	107664-02-11 18:42 G	41044570.22	41044570.28	41044570.39	0.0089	0.0080
Mercury	107664-05-09 22:18 G	41044658.33	41044658.43	41044658.57	0.0089	0.0070
Mercury	107664-08-06 01:54 G	41044746.46	41044746.58	41044746.75	0.0089	0.0060

Mercury	107664-11-02 05:59 G	41044834.59	41044834.75	41044834.92	0.0089	0.0049
Saturn	107665-01-07 00:42 G	41044899.81	41044900.53	41044901.28	0.0089	0.0002
Mercury	107665-01-29 09:35 G	41044922.73	41044922.90	41044923.08	0.0089	0.0039
Mercury	107665-04-27 13:11 G	41045010.88	41045011.05	41045011.24	0.0089	0.0029
Mercury	107665-07-24 16:47 G	41045099.02	41045099.20	41045099.40	0.0089	0.0019
Mercury	107665-10-20 20:37 G	41045187.17	41045187.36	41045187.56	0.0089	0.0008
Mercury	107666-01-17 00:27 G	41045275.32	41045275.52	41045275.71	0.0089	0.0003
Mercury	107666-04-15 04:03 G	41045363.48	41045363.67	41045363.86	0.0089	0.0013
Mercury	107666-07-12 07:39 G	41045451.64	41045451.82	41045452.01	0.0089	0.0024
Mercury	107666-10-08 11:30 G	41045539.80	41045539.98	41045540.16	0.0089	0.0034
Mercury	107667-01-04 14:51 G	41045627.97	41045628.12	41045628.30	0.0089	0.0045
Mercury	107667-04-02 18:42 G	41045716.14	41045716.28	41045716.44	0.0089	0.0055
Mercury	107667-06-29 22:03 G	41045804.31	41045804.42	41045804.58	0.0089	0.0066
Mercury	107667-09-26 02:08 G	41045892.50	41045892.59	41045892.70	0.0089	0.0076
Mercury	107667-12-23 05:59 G	41045980.71	41045980.75	41045980.81	0.0089	0.0086
Earth	107676-12-03 22:47 G	41049249.40	41049249.45	41049249.56	0.0090	0.0085
Moon	107676-12-04 00:42 G	41049249.44	41049249.53	41049249.66	0.0090	0.0080 *
Moon	107677-12-06 08:23 G	41049616.69	41049616.85	41049617.04	0.0090	0.0067
Earth	107677-12-06 11:01 G	41049616.79	41049616.96	41049617.16	0.0090	0.0063 *
Venus	107678-09-22 18:56 G	41049907.24	41049907.29	41049907.37	0.0090	0.0085
Earth	107678-12-08 22:32 G	41049984.23	41049984.44	41049984.68	0.0090	0.0042
Moon	107678-12-09 01:39 G	41049984.36	41049984.57	41049984.82	0.0090	0.0037 *
Venus	107679-05-06 07:25 G	41050132.72	41050132.81	41050132.95	0.0090	0.0075
Moon	107679-12-11 06:56 G	41050351.56	41050351.79	41050352.05	0.0090	0.0025
Earth	107679-12-11 10:32 G	41050351.71	41050351.94	41050352.20	0.0090	0.0020 *
Venus	107679-12-17 20:08 G	41050358.21	41050358.34	41050358.51	0.0090	0.0065
Venus	107680-07-30 09:06 G	41050583.72	41050583.88	41050584.06	0.0090	0.0054
Earth	107680-12-12 22:32 G	41050719.19	41050719.44	41050719.70	0.0090	0.0003
Moon	107680-12-13 01:54 G	41050719.32	41050719.58	41050719.84	0.0090	0.0007 *
Venus	107681-03-12 21:49 G	41050809.23	41050809.41	41050809.60	0.0090	0.0044

Venus	107681-10-24 10:32 G	41051034.75	41051034.94	41051035.15	0.0090	0.0034
Moon	107681-12-15 07:25 G	41051086.58	41051086.81	41051087.06	0.0090	0.0020
Earth	107681-12-15 10:03 G	41051086.69	41051086.92	41051087.18	0.0090	0.0025 *
Venus	107682-06-06 23:15 G	41051260.27	41051260.47	41051260.69	0.0090	0.0023
Earth	107682-12-17 21:49 G	41051454.21	41051454.41	41051454.65	0.0090	0.0046
Moon	107682-12-17 23:15 G	41051454.27	41051454.47	41051454.71	0.0090	0.0051 *
Venus	107683-01-18 11:59 G	41051485.79	41051486.00	41051486.22	0.0090	0.0013
Venus	107683-09-01 00:42 G	41051711.32	41051711.53	41051711.75	0.0090	0.0003
Moon	107683-12-20 09:20 G	41051821.74	41051821.89	41051822.08	0.0090	0.0064
Earth	107683-12-20 09:20 G	41051821.75	41051821.89	41051822.08	0.0090	0.0068 *
Venus	107684-04-13 13:25 G	41051936.84	41051937.06	41051937.27	0.0090	0.0008
Venus	107684-11-25 01:54 G	41052162.37	41052162.58	41052162.80	0.0090	0.0018
Earth	107684-12-21 21:20 G	41052189.38	41052189.39	41052189.43	0.0090	0.0089
Venus	107685-07-08 14:08 G	41052387.90	41052388.09	41052388.31	0.0090	0.0029
Venus	107686-02-19 02:51 G	41052613.44	41052613.62	41052613.82	0.0090	0.0039
Venus	107686-10-02 15:35 G	41052838.98	41052839.15	41052839.34	0.0090	0.0049
Venus	107687-05-16 04:03 G	41053064.52	41053064.67	41053064.84	0.0090	0.0059
Venus	107687-12-27 16:32 G	41053290.06	41053290.19	41053290.34	0.0090	0.0069
Venus	107688-08-09 05:01 G	41053515.62	41053515.71	41053515.82	0.0090	0.0079
Venus	107689-03-22 17:30 G	41053741.22	41053741.23	41053741.26	0.0090	0.0089
Mars	107712-04-15 01:11 G	41062164.41	41062164.55	41062164.73	0.0089	0.0072
Mars	107714-03-09 10:47 G	41062857.69	41062857.95	41062858.24	0.0089	0.0021
Mercury	107744-06-13 17:59 G	41073912.23	41073912.25	41073912.28	0.0088	0.0085
Mercury	107744-09-09 19:11 G	41074000.25	41074000.30	41074000.37	0.0088	0.0079
Mercury	107744-12-06 20:37 G	41074088.29	41074088.36	41074088.44	0.0088	0.0072
Mercury	107745-03-04 21:49 G	41074176.33	41074176.41	41074176.51	0.0088	0.0065
Mercury	107745-05-31 23:15 G	41074264.38	41074264.47	41074264.58	0.0088	0.0058
Mercury	107745-08-28 00:42 G	41074352.42	41074352.53	41074352.64	0.0088	0.0051
Mercury	107745-11-24 01:54 G	41074440.47	41074440.58	41074440.70	0.0088	0.0045
Mercury	107746-02-20 03:20 G	41074528.52	41074528.64	41074528.76	0.0088	0.0038



Mercury	107746-05-19 04:32 G	41074616.57	41074616.69	41074616.82	0.0088	0.0031
Mercury	107746-08-15 05:59 G	41074704.62	41074704.75	41074704.88	0.0088	0.0024
Mercury	107746-11-11 07:11 G	41074792.68	41074792.80	41074792.94	0.0088	0.0018
Mercury	107747-02-07 08:37 G	41074880.73	41074880.86	41074880.99	0.0088	0.0011
Mercury	107747-05-06 09:49 G	41074968.78	41074968.91	41074969.05	0.0088	0.0005
Mercury	107747-08-02 11:15 G	41075056.84	41075056.97	41075057.10	0.0088	0.0003
Mercury	107747-10-29 12:27 G	41075144.89	41075145.02	41075145.16	0.0088	0.0010
Mercury	107748-01-25 13:54 G	41075232.95	41075233.08	41075233.21	0.0088	0.0016
Mercury	107748-04-22 15:06 G	41075321.00	41075321.13	41075321.26	0.0088	0.0023
Mercury	107748-07-19 16:18 G	41075409.06	41075409.18	41075409.31	0.0088	0.0030
Mercury	107748-10-15 17:44 G	41075497.12	41075497.24	41075497.36	0.0088	0.0036
Mercury	107749-01-11 18:56 G	41075585.18	41075585.29	41075585.41	0.0088	0.0043
Mercury	107749-04-09 20:08 G	41075673.24	41075673.34	41075673.45	0.0088	0.0050
Mercury	107749-07-06 21:35 G	41075761.30	41075761.40	41075761.50	0.0088	0.0056
Mercury	107749-10-02 22:32 G	41075849.36	41075849.44	41075849.54	0.0088	0.0063
Mercury	107749-12-29 23:44 G	41075937.42	41075937.49	41075937.58	0.0088	0.0070
Mercury	107750-03-28 01:11 G	41076025.49	41076025.55	41076025.62	0.0088	0.0076
Mercury	107750-06-24 02:23 G	41076113.57	41076113.60	41076113.65	0.0088	0.0083
Moon	107758-06-02 15:06 G	41079014.09	41079014.13	41079014.18	0.0088	0.0086
Earth	107759-06-05 02:23 G	41079381.45	41079381.60	41079381.76	0.0088	0.0070
Moon	107759-06-05 03:35 G	41079381.53	41079381.65	41079381.79	0.0088	0.0074 *
Moon	107760-06-06 11:15 G	41079748.76	41079748.97	41079749.22	0.0088	0.0046
Earth	107760-06-06 13:25 G	41079748.87	41079749.06	41079749.30	0.0088	0.0050 *
Venus	107760-11-07 06:27 G	41079902.72	41079902.77	41079902.86	0.0088	0.0083
Earth	107761-06-09 01:11 G	41080116.32	41080116.55	41080116.81	0.0088	0.0029
Moon	107761-06-09 04:18 G	41080116.46	41080116.68	41080116.93	0.0088	0.0034 *
Venus	107761-06-20 19:54 G	41080128.22	41080128.33	41080128.47	0.0088	0.0073
Venus	107762-02-01 09:06 G	41080353.74	41080353.88	41080354.05	0.0088	0.0063
Moon	107762-06-11 09:20 G	41080483.63	41080483.89	41080484.16	0.0088	0.0005
Earth	107762-06-11 12:56 G	41080483.79	41080484.04	41080484.31	0.0088	0.0008 *

Venus	107762-09-14 22:47 G	41080579.28	41080579.45	41080579.63	0.0088	0.0053
Venus	107763-04-28 12:13 G	41080804.82	41080805.01	41080805.21	0.0088	0.0043
Earth	107763-06-14 00:13 G	41080851.26	41080851.51	41080851.78	0.0088	0.0013
Moon	107763-06-14 03:49 G	41080851.40	41080851.66	41080851.93	0.0088	0.0009 *
Venus	107763-12-10 01:39 G	41081030.36	41081030.57	41081030.78	0.0088	0.0033
Moon	107764-06-15 08:51 G	41081218.65	41081218.87	41081219.11	0.0088	0.0038
Earth	107764-06-15 11:44 G	41081218.76	41081218.99	41081219.24	0.0088	0.0034 *
Venus	107764-07-22 14:51 G	41081255.91	41081256.12	41081256.34	0.0088	0.0023
Venus	107765-03-05 04:18 G	41081481.46	41081481.68	41081481.90	0.0088	0.0013
Earth	107765-06-17 23:30 G	41081586.28	41081586.48	41081586.69	0.0088	0.0054
Moon	107765-06-18 01:11 G	41081586.33	41081586.55	41081586.77	0.0088	0.0050 *
Venus	107765-10-16 17:44 G	41081707.01	41081707.24	41081707.46	0.0088	0.0003
Venus	107766-05-30 07:11 G	41081932.57	41081932.80	41081933.02	0.0088	0.0007
Moon	107766-06-20 09:49 G	41081953.82	41081953.91	41081954.04	0.0088	0.0079
Earth	107766-06-20 10:47 G	41081953.83	41081953.95	41081954.10	0.0088	0.0075 *
Venus	107767-01-10 20:23 G	41082158.13	41082158.35	41082158.57	0.0088	0.0017
Venus	107767-08-24 09:49 G	41082383.70	41082383.91	41082384.12	0.0088	0.0027
Venus	107768-04-05 23:15 G	41082609.27	41082609.47	41082609.68	0.0088	0.0037
Venus	107768-11-17 12:42 G	41082834.85	41082835.03	41082835.23	0.0088	0.0047
Venus	107769-07-01 02:08 G	41083060.43	41083060.59	41083060.77	0.0088	0.0057
Venus	107770-02-11 15:35 G	41083286.01	41083286.15	41083286.30	0.0088	0.0067
Venus	107770-09-25 05:01 G	41083511.62	41083511.71	41083511.83	0.0088	0.0077
Venus	107771-05-08 18:27 G	41083737.26	41083737.27	41083737.32	0.0088	0.0087
Mars	107796-01-06 07:11 G	41092745.58	41092745.80	41092746.10	0.0088	0.0061
Jupiter	107797-01-17 03:20 G	41093122.12	41093122.64	41093123.17	0.0088	0.0034
Mars	107797-12-03 00:42 G	41093442.26	41093442.53	41093442.81	0.0088	0.0055
Mercury	107828-08-13 14:23 G	41104653.04	41104653.10	41104653.17	0.0089	0.0084
Mercury	107828-11-09 17:59 G	41104741.15	41104741.25	41104741.36	0.0089	0.0074
Mercury	107829-02-05 21:35 G	41104829.27	41104829.40	41104829.54	0.0089	0.0064
Mercury	107829-05-05 01:11 G	41104917.40	41104917.55	41104917.71	0.0089	0.0054

Mercury	107829-08-01 04:47 G	41105005.54	41105005.70	41105005.88	0.0089	0.0043
Mercury	107829-10-28 08:23 G	41105093.68	41105093.85	41105094.04	0.0089	0.0033
Mercury	107830-01-24 12:13 G	41105181.82	41105182.01	41105182.20	0.0089	0.0023
Mercury	107830-04-22 15:49 G	41105269.97	41105270.16	41105270.35	0.0089	0.0013
Mercury	107830-07-19 19:25 G	41105358.12	41105358.31	41105358.51	0.0089	0.0003
Mercury	107830-10-15 23:01 G	41105446.27	41105446.46	41105446.66	0.0089	0.0009
Mercury	107831-01-12 02:37 G	41105534.43	41105534.61	41105534.81	0.0089	0.0019
Mercury	107831-04-10 06:27 G	41105622.59	41105622.77	41105622.96	0.0089	0.0029
Mercury	107831-07-07 10:18 G	41105710.75	41105710.93	41105711.10	0.0089	0.0039
Mercury	107831-10-03 13:39 G	41105798.92	41105799.07	41105799.24	0.0089	0.0050
Mercury	107831-12-30 17:30 G	41105887.09	41105887.23	41105887.38	0.0089	0.0060
Mercury	107832-03-27 20:51 G	41105975.27	41105975.37	41105975.51	0.0090	0.0071
Mercury	107832-06-24 00:42 G	41106063.47	41106063.53	41106063.63	0.0090	0.0081
Moon	107841-12-07 18:56 G	41109517.14	41109517.29	41109517.47	0.0090	0.0066
Earth	107841-12-07 20:51 G	41109517.24	41109517.37	41109517.55	0.0090	0.0071 *
Earth	107842-12-10 08:51 G	41109884.67	41109884.87	41109885.10	0.0090	0.0049
Moon	107842-12-10 09:35 G	41109884.72	41109884.90	41109885.14	0.0090	0.0054 *
Venus	107842-12-27 06:27 G	41109901.74	41109901.77	41109901.85	0.0090	0.0087
Venus	107843-08-09 19:11 G	41110127.21	41110127.30	41110127.43	0.0090	0.0077
Earth	107843-12-12 21:06 G	41110252.14	41110252.38	41110252.62	0.0090	0.0027
Moon	107843-12-12 21:35 G	41110252.17	41110252.40	41110252.65	0.0090	0.0023 *
Venus	107844-03-22 08:23 G	41110352.71	41110352.85	41110353.00	0.0090	0.0066
Venus	107844-11-02 20:51 G	41110578.22	41110578.37	41110578.55	0.0090	0.0056
Moon	107844-12-14 07:11 G	41110619.54	41110619.80	41110620.07	0.0090	0.0010
Earth	107844-12-14 08:51 G	41110619.62	41110619.87	41110620.13	0.0090	0.0005 *
Venus	107845-06-16 09:35 G	41110803.73	41110803.90	41110804.10	0.0090	0.0046
Earth	107845-12-16 20:23 G	41110987.11	41110987.35	41110987.61	0.0090	0.0017
Moon	107845-12-16 23:15 G	41110987.23	41110987.47	41110987.72	0.0090	0.0022 *
Venus	107846-01-27 22:03 G	41111029.24	41111029.42	41111029.64	0.0090	0.0036
Venus	107846-09-10 11:15 G	41111254.76	41111254.97	41111255.18	0.0090	0.0025

Moon	107846-12-19 04:32 G	41111354.47	41111354.69	41111354.95	0.0090	0.0034
Earth	107846-12-19 08:08 G	41111354.62	41111354.84	41111355.08	0.0090	0.0039 *
Venus	107847-04-23 23:44 G	41111480.29	41111480.49	41111480.71	0.0090	0.0015
Venus	107847-12-05 12:27 G	41111705.81	41111706.02	41111706.24	0.0090	0.0005
Earth	107847-12-21 20:08 G	41111722.16	41111722.34	41111722.53	0.0090	0.0060
Moon	107847-12-21 23:30 G	41111722.32	41111722.48	41111722.66	0.0090	0.0065 *
Venus	107848-07-18 01:11 G	41111931.34	41111931.55	41111931.77	0.0090	0.0006
Moon	107848-12-23 04:32 G	41112089.58	41112089.69	41112089.83	0.0090	0.0077
Earth	107848-12-23 07:54 G	41112089.74	41112089.83	41112089.94	0.0090	0.0082 *
Venus	107849-02-28 13:54 G	41112156.87	41112157.08	41112157.29	0.0090	0.0016
Venus	107849-10-12 02:23 G	41112382.41	41112382.60	41112382.82	0.0090	0.0027
Venus	107850-05-25 15:06 G	41112607.94	41112608.13	41112608.33	0.0090	0.0037
Venus	107851-01-06 03:35 G	41112833.48	41112833.65	41112833.84	0.0090	0.0047
Venus	107851-08-19 16:18 G	41113059.02	41113059.18	41113059.35	0.0090	0.0057
Venus	107852-04-01 05:01 G	41113284.57	41113284.71	41113284.85	0.0090	0.0067
Venus	107852-11-12 17:01 G	41113510.13	41113510.21	41113510.34	0.0090	0.0078
Venus	107853-06-26 05:30 G	41113735.71	41113735.73	41113735.80	0.0090	0.0088
Mars	107877-10-24 05:30 G	41122621.46	41122621.73	41122622.02	0.0089	0.0012
Mars	107879-09-17 14:37 G	41123315.00	41123315.11	41123315.23	0.0089	0.0082
Mercury	107909-03-12 17:44 G	41134083.20	41134083.24	41134083.30	0.0088	0.0082
Mercury	107909-06-08 19:11 G	41134171.24	41134171.30	41134171.37	0.0088	0.0075
Mercury	107909-09-04 20:37 G	41134259.28	41134259.36	41134259.44	0.0088	0.0068
Mercury	107909-12-01 21:35 G	41134347.32	41134347.40	41134347.51	0.0088	0.0062
Mercury	107910-02-27 23:01 G	41134435.37	41134435.46	41134435.57	0.0088	0.0055
Mercury	107910-05-27 00:27 G	41134523.41	41134523.52	41134523.64	0.0088	0.0048
Mercury	107910-08-23 01:54 G	41134611.46	41134611.58	41134611.70	0.0088	0.0041
Mercury	107910-11-19 03:06 G	41134699.51	41134699.63	41134699.76	0.0088	0.0035
Mercury	107911-02-15 04:18 G	41134787.56	41134787.68	41134787.82	0.0088	0.0028
Mercury	107911-05-14 05:44 G	41134875.62	41134875.74	41134875.88	0.0088	0.0021
Mercury	107911-08-10 07:11 G	41134963.67	41134963.80	41134963.93	0.0088	0.0014

Mercury	107911-11-06 08:23 G	41135051.72	41135051.85	41135051.99	0.0088	0.0008
Mercury	107912-02-02 09:49 G	41135139.78	41135139.91	41135140.04	0.0088	0.0001
Mercury	107912-04-30 11:01 G	41135227.83	41135227.96	41135228.10	0.0088	0.0006
Mercury	107912-07-27 12:27 G	41135315.89	41135316.02	41135316.15	0.0088	0.0013
Mercury	107912-10-23 13:39 G	41135403.94	41135404.07	41135404.20	0.0088	0.0020
Mercury	107913-01-19 14:51 G	41135492.00	41135492.12	41135492.25	0.0088	0.0026
Mercury	107913-04-17 16:18 G	41135580.06	41135580.18	41135580.30	0.0088	0.0033
Mercury	107913-07-14 17:30 G	41135668.11	41135668.23	41135668.35	0.0088	0.0040
Mercury	107913-10-10 18:27 G	41135756.17	41135756.27	41135756.40	0.0088	0.0047
Mercury	107914-01-06 19:54 G	41135844.23	41135844.33	41135844.44	0.0088	0.0053
Mercury	107914-04-04 21:06 G	41135932.30	41135932.38	41135932.49	0.0088	0.0060
Mercury	107914-07-01 22:32 G	41136020.36	41136020.44	41136020.53	0.0088	0.0066
Mercury	107914-09-27 23:44 G	41136108.43	41136108.49	41136108.57	0.0088	0.0073
Mercury	107914-12-25 00:56 G	41136196.50	41136196.54	41136196.61	0.0088	0.0080
Mercury	107915-03-23 02:23 G	41136284.58	41136284.60	41136284.63	0.0088	0.0086
Earth	107923-06-06 11:44 G	41139281.90	41139281.99	41139282.14	0.0088	0.0078
Moon	107923-06-06 15:06 G	41139282.00	41139282.13	41139282.29	0.0088	0.0073 *
Moon	107924-06-07 21:49 G	41139649.24	41139649.41	41139649.60	0.0088	0.0061
Earth	107924-06-07 23:44 G	41139649.31	41139649.49	41139649.71	0.0088	0.0057 *
Venus	107925-02-10 17:15 G	41139897.17	41139897.22	41139897.30	0.0088	0.0084
Earth	107925-06-10 11:30 G	41140016.75	41140016.98	41140017.23	0.0088	0.0036
Moon	107925-06-10 11:44 G	41140016.75	41140016.99	41140017.26	0.0088	0.0032 *
Venus	107925-09-24 06:42 G	41140122.67	41140122.78	41140122.91	0.0088	0.0074
Venus	107926-05-07 20:23 G	41140348.20	41140348.35	41140348.50	0.0088	0.0064
Earth	107926-06-12 23:15 G	41140384.21	41140384.47	41140384.73	0.0088	0.0015
Moon	107926-06-12 23:59 G	41140384.26	41140384.50	41140384.75	0.0088	0.0019 *
Venus	107926-12-19 09:06 G	41140573.73	41140573.88	41140574.08	0.0088	0.0055
Moon	107927-06-15 08:51 G	41140751.61	41140751.87	41140752.14	0.0088	0.0010
Earth	107927-06-15 10:47 G	41140751.70	41140751.95	41140752.22	0.0088	0.0006 *
Venus	107927-08-01 22:32 G	41140799.27	41140799.44	41140799.65	0.0088	0.0045

Venus	107928-03-14 12:13 G	41141024.81	41141025.01	41141025.23	0.0088	0.0035
Earth	107928-06-16 22:03 G	41141119.18	41141119.42	41141119.68	0.0088	0.0027
Moon	107928-06-17 01:25 G	41141119.32	41141119.56	41141119.81	0.0088	0.0023 *
Venus	107928-10-26 01:39 G	41141250.36	41141250.57	41141250.79	0.0088	0.0025
Venus	107929-06-08 15:06 G	41141475.91	41141476.13	41141476.35	0.0088	0.0015
Moon	107929-06-19 05:59 G	41141486.56	41141486.75	41141486.99	0.0088	0.0052
Earth	107929-06-19 09:35 G	41141486.70	41141486.90	41141487.14	0.0088	0.0048 *
Venus	107930-01-20 04:32 G	41141701.46	41141701.69	41141701.91	0.0088	0.0005
Earth	107930-06-21 20:51 G	41141854.24	41141854.37	41141854.56	0.0088	0.0069
Moon	107930-06-22 00:42 G	41141854.38	41141854.53	41141854.73	0.0088	0.0064 *
Venus	107930-09-02 17:44 G	41141927.02	41141927.24	41141927.47	0.0088	0.0006
Venus	107931-04-16 07:11 G	41142152.58	41142152.80	41142153.03	0.0088	0.0016
Venus	107931-11-27 20:23 G	41142378.15	41142378.35	41142378.58	0.0088	0.0026
Venus	107932-07-10 09:35 G	41142603.71	41142603.90	41142604.12	0.0088	0.0036
Venus	107933-02-20 23:01 G	41142829.28	41142829.46	41142829.67	0.0088	0.0046
Venus	107933-10-04 12:13 G	41143054.86	41143055.01	41143055.21	0.0088	0.0056
Venus	107934-05-18 01:54 G	41143280.45	41143280.58	41143280.75	0.0088	0.0066
Venus	107934-12-29 15:49 G	41143506.05	41143506.16	41143506.27	0.0088	0.0075
Venus	107935-08-12 05:01 G	41143731.67	41143731.71	41143731.77	0.0088	0.0085
Mars	107961-07-18 06:42 G	41153203.45	41153203.78	41153204.14	0.0088	0.0016
Mercury	107993-02-12 09:20 G	41164735.89	41164735.89	41164735.94	0.0089	0.0089
Mercury	107993-05-11 12:56 G	41164823.97	41164824.04	41164824.15	0.0089	0.0079
Mercury	107993-08-07 16:32 G	41164912.09	41164912.19	41164912.33	0.0089	0.0069
Mercury	107993-11-03 20:08 G	41165000.22	41165000.34	41165000.51	0.0089	0.0059
Mercury	107994-01-31 00:13 G	41165088.35	41165088.51	41165088.67	0.0089	0.0048
Mercury	107994-04-29 03:49 G	41165176.49	41165176.66	41165176.84	0.0089	0.0038
Mercury	107994-07-26 07:25 G	41165264.63	41165264.81	41165265.00	0.0089	0.0028
Mercury	107994-10-22 11:01 G	41165352.78	41165352.96	41165353.16	0.0089	0.0018
Mercury	107995-01-18 14:51 G	41165440.93	41165441.12	41165441.31	0.0089	0.0007
Mercury	107995-04-16 18:27 G	41165529.08	41165529.27	41165529.46	0.0089	0.0003

Mercury	107995-07-13 22:03 G	41165617.23	41165617.42	41165617.62	0.0089	0.0014
Mercury	107995-10-10 01:54 G	41165705.39	41165705.58	41165705.76	0.0089	0.0024
Mercury	107996-01-06 05:15 G	41165793.55	41165793.72	41165793.91	0.0089	0.0034
Mercury	107996-04-03 08:51 G	41165881.72	41165881.87	41165882.05	0.0089	0.0045
Mercury	107996-06-30 12:42 G	41165969.88	41165970.03	41165970.19	0.0090	0.0055
Mercury	107996-09-26 16:03 G	41166058.06	41166058.17	41166058.32	0.0090	0.0066
Mercury	107996-12-23 19:54 G	41166146.24	41166146.33	41166146.45	0.0090	0.0076
Mercury	107997-03-21 23:59 G	41166234.45	41166234.50	41166234.55	0.0090	0.0086

# 109TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 109th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Earth	108005-12-08 07:25 G		41169417.70	41169417.81	41169417.95	0.0090	0.0078	
Moon	108005-12-08 10:47 G		41169417.88	41169417.95	41169418.06	0.0090	0.0083	*
Moon	108006-12-10 16:18 G		41169784.97	41169785.18	41169785.38	0.0090	0.0051	
Earth	108006-12-10 19:39 G		41169785.12	41169785.32	41169785.52	0.0090	0.0056	*
Venus	108007-03-31 18:42 G		41169896.25	41169896.28	41169896.33	0.0090	0.0088	
Venus	108007-11-12 07:25 G		41170121.71	41170121.81	41170121.92	0.0090	0.0078	
Earth	108007-12-13 06:56 G		41170152.57	41170152.79	41170153.05	0.0090	0.0035	
Moon	108007-12-13 10:03 G		41170152.69	41170152.92	41170153.16	0.0090	0.0039	*
Venus	108008-06-24 19:54 G		41170347.21	41170347.33	41170347.49	0.0090	0.0068	
Moon	108008-12-14 17:01 G		41170519.96	41170520.21	41170520.46	0.0090	0.0008	

Earth	108008-12-14 19:11 G	41170520.05	41170520.30	41170520.55	0.0090	0.0013	*
Venus	108009-02-05 08:37 G	41170572.71	41170572.86	41170573.04	0.0090	0.0058	
Venus	108009-09-18 21:20 G	41170798.22	41170798.39	41170798.59	0.0090	0.0048	
Earth	108009-12-17 06:42 G	41170887.53	41170887.78	41170888.04	0.0090	0.0009	
Moon	108009-12-17 07:25 G	41170887.55	41170887.81	41170888.07	0.0090	0.0004	*
Venus	108010-05-02 10:18 G	41171023.74	41171023.93	41171024.13	0.0090	0.0037	
Venus	108010-12-13 22:47 G	41171249.25	41171249.45	41171249.66	0.0090	0.0027	
Earth	108010-12-19 18:27 G	41171255.04	41171255.27	41171255.52	0.0090	0.0031	
Moon	108010-12-19 18:56 G	41171255.08	41171255.29	41171255.53	0.0090	0.0036	*
Venus	108011-07-27 11:30 G	41171474.77	41171474.98	41171475.19	0.0090	0.0017	
Moon	108011-12-22 04:32 G	41171622.48	41171622.69	41171622.92	0.0090	0.0048	
Earth	108011-12-22 05:59 G	41171622.56	41171622.75	41171622.97	0.0090	0.0053	*
Venus	108012-03-09 00:13 G	41171700.29	41171700.51	41171700.72	0.0090	0.0006	
Venus	108012-10-20 12:56 G	41171925.83	41171926.04	41171926.26	0.0090	0.0004	
Earth	108012-12-23 17:15 G	41171990.11	41171990.22	41171990.39	0.0090	0.0075	
Moon	108012-12-23 20:23 G	41171990.26	41171990.35	41171990.49	0.0090	0.0080	*
Venus	108013-06-03 01:39 G	41172151.36	41172151.57	41172151.78	0.0090	0.0014	
Venus	108014-01-14 13:54 G	41172376.89	41172377.08	41172377.30	0.0090	0.0025	
Venus	108014-08-28 02:37 G	41172602.42	41172602.61	41172602.82	0.0090	0.0035	
Venus	108015-04-10 15:20 G	41172827.96	41172828.14	41172828.33	0.0090	0.0045	
Venus	108015-11-22 04:03 G	41173053.51	41173053.67	41173053.84	0.0090	0.0055	
Venus	108016-07-04 16:18 G	41173279.05	41173279.18	41173279.35	0.0090	0.0066	
Venus	108017-02-15 04:47 G	41173504.61	41173504.70	41173504.84	0.0090	0.0076	
Venus	108017-09-28 17:30 G	41173730.19	41173730.23	41173730.31	0.0090	0.0086	
Mars	108041-06-10 01:54 G	41182385.34	41182385.58	41182385.83	0.0089	0.0044	
Mars	108043-05-04 09:06 G	41183078.66	41183078.88	41183079.13	0.0089	0.0049	
Mercury	108073-09-10 16:18 G	41194166.16	41194166.18	41194166.22	0.0088	0.0085	
Mercury	108073-12-07 17:44 G	41194254.19	41194254.24	41194254.30	0.0088	0.0078	
Mercury	108074-03-05 18:56 G	41194342.22	41194342.29	41194342.38	0.0088	0.0072	
Mercury	108074-06-01 20:23 G	41194430.27	41194430.35	41194430.45	0.0088	0.0065	



Mercury	108074-08-28 21:35 G	41194518.31	41194518.40	41194518.51	0.0088	0.0058
Mercury	108074-11-24 23:01 G	41194606.36	41194606.46	41194606.57	0.0088	0.0051
Mercury	108075-02-21 00:27 G	41194694.41	41194694.52	41194694.64	0.0088	0.0044
Mercury	108075-05-20 01:39 G	41194782.46	41194782.57	41194782.70	0.0088	0.0038
Mercury	108075-08-16 03:06 G	41194870.51	41194870.63	41194870.76	0.0088	0.0031
Mercury	108075-11-12 04:32 G	41194958.56	41194958.69	41194958.81	0.0088	0.0024
Mercury	108076-02-08 05:44 G	41195046.61	41195046.74	41195046.87	0.0088	0.0017
Mercury	108076-05-06 06:56 G	41195134.66	41195134.79	41195134.93	0.0088	0.0011
Mercury	108076-08-02 08:23 G	41195222.72	41195222.85	41195222.98	0.0088	0.0004
Mercury	108076-10-29 09:35 G	41195310.77	41195310.90	41195311.04	0.0088	0.0004
Mercury	108077-01-25 11:01 G	41195398.83	41195398.96	41195399.09	0.0088	0.0010
Mercury	108077-04-23 12:13 G	41195486.88	41195487.01	41195487.14	0.0088	0.0016
Mercury	108077-07-20 13:25 G	41195574.94	41195575.06	41195575.19	0.0088	0.0023
Mercury	108077-10-16 14:37 G	41195662.99	41195663.11	41195663.24	0.0088	0.0030
Mercury	108078-01-12 16:03 G	41195751.05	41195751.17	41195751.29	0.0088	0.0036
Mercury	108078-04-10 17:15 G	41195839.11	41195839.22	41195839.34	0.0088	0.0043
Mercury	108078-07-07 18:27 G	41195927.17	41195927.27	41195927.39	0.0088	0.0050
Mercury	108078-10-03 19:54 G	41196015.23	41196015.33	41196015.43	0.0088	0.0056
Mercury	108078-12-30 21:06 G	41196103.30	41196103.38	41196103.48	0.0088	0.0063
Mercury	108079-03-28 22:18 G	41196191.36	41196191.43	41196191.52	0.0088	0.0070
Mercury	108079-06-24 23:44 G	41196279.43	41196279.49	41196279.56	0.0088	0.0076
Mercury	108079-09-21 00:56 G	41196367.50	41196367.54	41196367.59	0.0088	0.0083
Earth	108087-06-05 21:35 G	41199182.37	41199182.40	41199182.50	0.0088	0.0085
Earth	108088-06-07 09:20 G	41199549.73	41199549.89	41199550.08	0.0088	0.0064
Moon	108088-06-07 12:56 G	41199549.88	41199550.04	41199550.26	0.0088	0.0060 *
Venus	108089-05-15 03:20 G	41199891.62	41199891.64	41199891.71	0.0088	0.0086
Moon	108089-06-09 17:44 G	41199917.04	41199917.24	41199917.47	0.0088	0.0047
Earth	108089-06-09 21:06 G	41199917.16	41199917.38	41199917.62	0.0088	0.0043 *
Venus	108089-12-26 16:47 G	41200117.11	41200117.20	41200117.33	0.0088	0.0076
Earth	108090-06-12 08:37 G	41200284.62	41200284.86	41200285.13	0.0088	0.0023

Moon	108090-06-12 11:44 G	41200284.74	41200284.99	41200285.26	0.0088	0.0018	*
Venus	108090-08-09 06:13 G	41200342.63	41200342.76	41200342.92	0.0088	0.0066	
Venus	108091-03-22 19:54 G	41200568.17	41200568.33	41200568.51	0.0088	0.0056	
Moon	108091-06-14 18:42 G	41200652.03	41200652.28	41200652.53	0.0088	0.0005	
Earth	108091-06-14 20:37 G	41200652.10	41200652.36	41200652.62	0.0088	0.0002	*
Venus	108091-11-03 09:20 G	41200793.71	41200793.89	41200794.09	0.0088	0.0046	
Venus	108092-06-15 22:47 G	41201019.25	41201019.45	41201019.66	0.0088	0.0036	
Earth	108092-06-16 07:54 G	41201019.59	41201019.83	41201020.10	0.0088	0.0020	*
Moon	108092-06-16 07:54 G	41201019.59	41201019.83	41201020.11	0.0088	0.0024	*
Venus	108093-01-27 12:13 G	41201244.79	41201245.01	41201245.22	0.0088	0.0026	
Earth	108093-06-18 19:25 G	41201387.10	41201387.31	41201387.56	0.0088	0.0041	
Moon	108093-06-18 20:23 G	41201387.13	41201387.35	41201387.59	0.0088	0.0037	*
Venus	108093-09-10 01:25 G	41201470.35	41201470.56	41201470.79	0.0088	0.0016	
Venus	108094-04-23 15:06 G	41201695.91	41201696.13	41201696.35	0.0088	0.0006	
Moon	108094-06-21 04:32 G	41201754.54	41201754.69	41201754.89	0.0088	0.0066	
Earth	108094-06-21 06:56 G	41201754.63	41201754.79	41201755.00	0.0088	0.0062	*
Venus	108094-12-05 04:32 G	41201921.46	41201921.69	41201921.91	0.0088	0.0004	
Earth	108095-06-23 18:56 G	41202122.21	41202122.29	41202122.38	0.0088	0.0082	
Moon	108095-06-23 21:49 G	41202122.32	41202122.41	41202122.54	0.0088	0.0079	*
Venus	108095-07-18 17:44 G	41202147.02	41202147.24	41202147.47	0.0088	0.0014	
Venus	108096-02-29 07:11 G	41202372.59	41202372.80	41202373.02	0.0088	0.0024	
Venus	108096-10-11 20:23 G	41202598.15	41202598.35	41202598.57	0.0088	0.0034	
Venus	108097-05-25 09:49 G	41202823.73	41202823.91	41202824.12	0.0088	0.0044	
Venus	108098-01-05 23:01 G	41203049.30	41203049.46	41203049.65	0.0088	0.0054	
Venus	108098-08-19 12:27 G	41203274.88	41203275.02	41203275.19	0.0088	0.0064	
Venus	108099-04-02 01:54 G	41203500.48	41203500.58	41203500.72	0.0088	0.0074	
Venus	108099-11-13 15:06 G	41203726.09	41203726.13	41203726.23	0.0088	0.0084	
Mars	108125-03-01 10:47 G	41212964.63	41212964.95	41212965.31	0.0088	0.0026	
Mercury	108157-11-10 08:08 G	41224906.79	41224906.84	41224906.93	0.0089	0.0084	
Mercury	108158-02-06 11:44 G	41224994.90	41224994.99	41224995.12	0.0089	0.0074	

Mercury	108158-05-05 15:20 G	41225083.02	41225083.14	41225083.29	0.0089	0.0064
Mercury	108158-08-01 18:56 G	41225171.15	41225171.29	41225171.46	0.0089	0.0054
Mercury	108158-10-28 23:01 G	41225259.29	41225259.46	41225259.63	0.0089	0.0043
Mercury	108159-01-25 02:37 G	41225347.43	41225347.61	41225347.79	0.0089	0.0033
Mercury	108159-04-23 06:13 G	41225435.57	41225435.76	41225435.95	0.0089	0.0022
Mercury	108159-07-20 09:49 G	41225523.72	41225523.91	41225524.11	0.0089	0.0012
Mercury	108159-10-16 13:39 G	41225611.87	41225612.07	41225612.26	0.0089	0.0003
Mercury	108160-01-12 17:15 G	41225700.03	41225700.22	41225700.41	0.0089	0.0008
Mercury	108160-04-09 20:51 G	41225788.18	41225788.37	41225788.56	0.0089	0.0019
Mercury	108160-07-07 00:27 G	41225876.34	41225876.52	41225876.71	0.0089	0.0029
Mercury	108160-10-03 03:49 G	41225964.50	41225964.66	41225964.85	0.0089	0.0040
Mercury	108160-12-30 07:39 G	41226052.67	41226052.82	41226052.99	0.0090	0.0050
Mercury	108161-03-28 11:30 G	41226140.84	41226140.98	41226141.13	0.0090	0.0060
Mercury	108161-06-24 14:51 G	41226229.02	41226229.12	41226229.26	0.0090	0.0071
Mercury	108161-09-20 18:42 G	41226317.21	41226317.28	41226317.37	0.0090	0.0081
Earth	108169-12-08 17:30 G	41229318.17	41229318.23	41229318.32	0.0090	0.0086
Moon	108169-12-08 18:27 G	41229318.19	41229318.27	41229318.41	0.0090	0.0082 *
Earth	108170-12-11 05:30 G	41229685.57	41229685.73	41229685.92	0.0090	0.0064
Moon	108170-12-11 05:30 G	41229685.59	41229685.73	41229685.91	0.0090	0.0068 *
Venus	108171-07-04 06:27 G	41229890.77	41229890.77	41229890.78	0.0090	0.0090
Moon	108171-12-13 16:32 G	41230052.97	41230053.19	41230053.44	0.0090	0.0039
Earth	108171-12-13 17:44 G	41230053.02	41230053.24	41230053.47	0.0090	0.0042 *
Venus	108172-02-14 18:56 G	41230116.21	41230116.29	41230116.41	0.0090	0.0080
Venus	108172-09-27 07:39 G	41230341.71	41230341.82	41230341.98	0.0090	0.0070
Earth	108172-12-15 05:15 G	41230420.48	41230420.72	41230420.97	0.0090	0.0020
Moon	108172-12-15 07:25 G	41230420.59	41230420.81	41230421.07	0.0090	0.0025 *
Venus	108173-05-10 20:23 G	41230567.21	41230567.35	41230567.53	0.0090	0.0060
Moon	108173-12-17 14:08 G	41230787.83	41230788.09	41230788.35	0.0090	0.0006
Earth	108173-12-17 17:15 G	41230787.97	41230788.22	41230788.48	0.0090	0.0002 *
Venus	108173-12-22 09:35 G	41230792.72	41230792.90	41230793.08	0.0090	0.0049

Venus	108174-08-04 22:03 G	41231018.23	41231018.42	41231018.62	0.0090	0.0039
Earth	108174-12-20 04:47 G	41231155.46	41231155.70	41231155.96	0.0090	0.0024
Moon	108174-12-20 08:23 G	41231155.61	41231155.85	41231156.10	0.0090	0.0020 *
Venus	108175-03-18 10:32 G	41231243.75	41231243.94	41231244.16	0.0090	0.0029
Venus	108175-10-29 23:15 G	41231469.27	41231469.47	41231469.69	0.0090	0.0019
Moon	108175-12-22 12:42 G	41231522.84	41231523.03	41231523.26	0.0090	0.0050
Earth	108175-12-22 16:18 G	41231522.98	41231523.18	41231523.42	0.0090	0.0046 *
Venus	108176-06-11 12:13 G	41231694.79	41231695.01	41231695.22	0.0090	0.0008
Earth	108176-12-24 04:03 G	41231890.51	41231890.67	41231890.85	0.0090	0.0067
Moon	108176-12-24 06:27 G	41231890.62	41231890.77	41231890.98	0.0090	0.0064 *
Venus	108177-01-23 00:42 G	41231920.32	41231920.53	41231920.75	0.0090	0.0003
Venus	108177-09-05 13:11 G	41232145.85	41232146.05	41232146.27	0.0090	0.0013
Earth	108177-12-26 15:35 G	41232258.14	41232258.15	41232258.20	0.0090	0.0089
Venus	108178-04-19 01:54 G	41232371.38	41232371.58	41232371.80	0.0090	0.0023
Venus	108178-11-30 14:37 G	41232596.91	41232597.11	41232597.31	0.0090	0.0033
Venus	108179-07-14 03:20 G	41232822.45	41232822.64	41232822.83	0.0090	0.0043
Venus	108180-02-24 15:20 G	41233047.99	41233048.14	41233048.34	0.0090	0.0054
Venus	108180-10-07 04:18 G	41233273.55	41233273.68	41233273.85	0.0090	0.0064
Venus	108181-05-20 16:47 G	41233499.10	41233499.20	41233499.34	0.0090	0.0074
Venus	108182-01-01 05:15 G	41233724.67	41233724.72	41233724.82	0.0090	0.0084
Mars	108205-01-25 20:08 G	41242149.23	41242149.34	41242149.50	0.0089	0.0078
Jupiter	108206-02-19 05:30 G	41242538.32	41242538.73	41242539.20	0.0089	0.0048
Mars	108206-12-20 05:44 G	41242842.47	41242842.74	41242843.03	0.0089	0.0017
Mercury	108238-06-09 16:03 G	41254337.14	41254337.17	41254337.23	0.0088	0.0082
Mercury	108238-09-05 17:30 G	41254425.17	41254425.23	41254425.31	0.0088	0.0075
Mercury	108238-12-02 18:56 G	41254513.21	41254513.29	41254513.38	0.0088	0.0068
Mercury	108239-02-28 20:23 G	41254601.26	41254601.35	41254601.45	0.0088	0.0061
Mercury	108239-05-27 21:20 G	41254689.30	41254689.39	41254689.51	0.0088	0.0055
Mercury	108239-08-23 22:47 G	41254777.35	41254777.45	41254777.57	0.0088	0.0048
Mercury	108239-11-20 00:13 G	41254865.40	41254865.51	41254865.63	0.0088	0.0041

Mercury	108240-02-16 01:39 G	41254953.45	41254953.57	41254953.69	0.0088	0.0034
Mercury	108240-05-14 02:51 G	41255041.50	41255041.62	41255041.75	0.0088	0.0028
Mercury	108240-08-10 04:18 G	41255129.55	41255129.68	41255129.81	0.0088	0.0021
Mercury	108240-11-06 05:30 G	41255217.60	41255217.73	41255217.87	0.0088	0.0014
Mercury	108241-02-02 06:56 G	41255305.66	41255305.79	41255305.92	0.0088	0.0007
Mercury	108241-05-01 08:08 G	41255393.71	41255393.84	41255393.98	0.0088	0.0002
Mercury	108241-07-28 09:35 G	41255481.76	41255481.90	41255482.03	0.0088	0.0006
Mercury	108241-10-24 10:47 G	41255569.82	41255569.95	41255570.08	0.0088	0.0013
Mercury	108242-01-20 11:59 G	41255657.88	41255658.00	41255658.13	0.0088	0.0020
Mercury	108242-04-18 13:25 G	41255745.93	41255746.06	41255746.19	0.0088	0.0026
Mercury	108242-07-15 14:37 G	41255833.99	41255834.11	41255834.24	0.0088	0.0033
Mercury	108242-10-11 15:49 G	41255922.05	41255922.16	41255922.28	0.0088	0.0040
Mercury	108243-01-07 17:15 G	41256010.11	41256010.22	41256010.33	0.0088	0.0046
Mercury	108243-04-05 18:27 G	41256098.17	41256098.27	41256098.38	0.0088	0.0053
Mercury	108243-07-02 19:39 G	41256186.23	41256186.32	41256186.42	0.0088	0.0060
Mercury	108243-09-28 21:06 G	41256274.29	41256274.38	41256274.47	0.0088	0.0066
Mercury	108243-12-25 22:03 G	41256362.36	41256362.42	41256362.51	0.0088	0.0073
Mercury	108244-03-22 23:15 G	41256450.43	41256450.47	41256450.54	0.0088	0.0080
Mercury	108244-06-19 00:42 G	41256538.52	41256538.53	41256538.56	0.0088	0.0086
Earth	108252-06-08 19:25 G	41259450.18	41259450.31	41259450.48	0.0088	0.0071
Moon	108252-06-08 22:47 G	41259450.33	41259450.45	41259450.62	0.0088	0.0073 *
Moon	108253-06-11 03:49 G	41259817.47	41259817.66	41259817.89	0.0088	0.0049
Earth	108253-06-11 07:25 G	41259817.60	41259817.81	41259818.02	0.0088	0.0050 *
Venus	108253-08-18 14:08 G	41259886.08	41259886.09	41259886.13	0.0088	0.0087
Venus	108254-04-01 03:49 G	41260111.56	41260111.66	41260111.77	0.0088	0.0077
Earth	108254-06-13 18:13 G	41260185.03	41260185.26	41260185.52	0.0088	0.0030
Moon	108254-06-13 20:23 G	41260185.12	41260185.35	41260185.62	0.0088	0.0032 *
Venus	108254-11-12 16:47 G	41260337.08	41260337.20	41260337.36	0.0088	0.0068
Moon	108255-06-16 05:30 G	41260552.48	41260552.73	41260552.98	0.0088	0.0007
Earth	108255-06-16 05:59 G	41260552.50	41260552.75	41260553.02	0.0088	0.0009 *

Venus	108255-06-26 05:59 G	41260562.60	41260562.75	41260562.94	0.0088	0.0058
Venus	108256-02-06 19:25 G	41260788.14	41260788.31	41260788.51	0.0088	0.0048
Moon	108256-06-17 17:44 G	41260919.97	41260920.24	41260920.51	0.0088	0.0011
Earth	108256-06-17 17:44 G	41260919.99	41260920.24	41260920.50	0.0088	0.0013 *
Venus	108256-09-19 08:51 G	41261013.68	41261013.87	41261014.08	0.0088	0.0038
Venus	108257-05-02 22:32 G	41261239.23	41261239.44	41261239.66	0.0088	0.0028
Earth	108257-06-20 05:01 G	41261287.49	41261287.71	41261287.97	0.0088	0.0034
Moon	108257-06-20 06:56 G	41261287.57	41261287.79	41261288.04	0.0088	0.0036 *
Venus	108257-12-14 11:59 G	41261464.78	41261465.00	41261465.22	0.0088	0.0018
Moon	108258-06-22 13:54 G	41261654.88	41261655.08	41261655.31	0.0088	0.0052
Earth	108258-06-22 16:32 G	41261655.01	41261655.19	41261655.42	0.0088	0.0055 *
Venus	108258-07-28 01:25 G	41261690.33	41261690.56	41261690.78	0.0088	0.0008
Venus	108259-03-10 14:51 G	41261915.89	41261916.12	41261916.34	0.0088	0.0002
Earth	108259-06-25 03:49 G	41262022.56	41262022.66	41262022.83	0.0088	0.0076
Moon	108259-06-25 07:25 G	41262022.71	41262022.81	41262022.95	0.0088	0.0077 *
Venus	108259-10-22 04:03 G	41262141.45	41262141.67	41262141.90	0.0088	0.0012
Venus	108260-06-03 17:30 G	41262367.02	41262367.23	41262367.45	0.0088	0.0022
Venus	108261-01-15 06:56 G	41262592.58	41262592.79	41262593.00	0.0088	0.0032
Venus	108261-08-28 20:08 G	41262818.15	41262818.34	41262818.54	0.0088	0.0042
Venus	108262-04-11 09:35 G	41263043.73	41263043.90	41263044.09	0.0088	0.0052
Venus	108262-11-22 23:01 G	41263269.31	41263269.46	41263269.63	0.0088	0.0062
Venus	108263-07-06 12:13 G	41263494.90	41263495.01	41263495.15	0.0088	0.0072
Venus	108264-02-17 01:25 G	41263720.50	41263720.56	41263720.66	0.0088	0.0082
Mars	108288-10-13 15:06 G	41272725.94	41272726.13	41272726.40	0.0088	0.0067
Mars	108290-09-10 08:51 G	41273422.59	41273422.87	41273423.17	0.0088	0.0049
Mercury	108322-05-13 03:20 G	41284989.63	41284989.64	41284989.68	0.0089	0.0089
Mercury	108322-08-09 06:56 G	41285077.71	41285077.79	41285077.90	0.0089	0.0078
Mercury	108322-11-05 10:32 G	41285165.83	41285165.94	41285166.08	0.0089	0.0068
Mercury	108323-02-01 14:08 G	41285253.96	41285254.09	41285254.25	0.0089	0.0058
Mercury	108323-04-30 18:13 G	41285342.09	41285342.26	41285342.42	0.0089	0.0048

Mercury	108323-07-27 21:35 G	41285430.23	41285430.40	41285430.58	0.0089	0.0038
Mercury	108323-10-24 01:11 G	41285518.37	41285518.55	41285518.74	0.0089	0.0028
Mercury	108324-01-20 04:47 G	41285606.52	41285606.70	41285606.90	0.0089	0.0018
Mercury	108324-04-17 08:37 G	41285694.67	41285694.86	41285695.05	0.0089	0.0007
Mercury	108324-07-14 12:13 G	41285782.82	41285783.01	41285783.21	0.0089	0.0004
Mercury	108324-10-10 15:49 G	41285870.97	41285871.16	41285871.36	0.0089	0.0014
Mercury	108325-01-06 19:39 G	41285959.13	41285959.32	41285959.51	0.0089	0.0024
Mercury	108325-04-04 23:01 G	41286047.29	41286047.46	41286047.65	0.0089	0.0034
Mercury	108325-07-02 02:37 G	41286135.46	41286135.61	41286135.79	0.0090	0.0045
Mercury	108325-09-28 06:27 G	41286223.63	41286223.77	41286223.93	0.0090	0.0055
Mercury	108325-12-25 10:18 G	41286311.80	41286311.93	41286312.06	0.0090	0.0065
Mercury	108326-03-23 13:39 G	41286399.98	41286400.07	41286400.19	0.0090	0.0076
Mercury	108326-06-19 17:30 G	41286488.19	41286488.23	41286488.29	0.0090	0.0086
Earth	108334-12-12 15:06 G	41289585.99	41289586.13	41289586.29	0.0090	0.0072
Moon	108334-12-12 15:06 G	41289586.01	41289586.13	41289586.26	0.0090	0.0076 *
Moon	108335-12-15 01:11 G	41289953.34	41289953.55	41289953.79	0.0090	0.0047
Earth	108335-12-15 03:06 G	41289953.42	41289953.63	41289953.85	0.0090	0.0050 *
Venus	108336-05-20 06:27 G	41290110.70	41290110.77	41290110.88	0.0090	0.0082
Earth	108336-12-16 15:06 G	41290320.89	41290321.13	41290321.37	0.0090	0.0028
Moon	108336-12-16 17:15 G	41290320.99	41290321.22	41290321.46	0.0090	0.0032 *
Venus	108336-12-31 19:11 G	41290336.19	41290336.30	41290336.45	0.0090	0.0072
Venus	108337-08-14 08:23 G	41290561.69	41290561.85	41290562.00	0.0090	0.0061
Moon	108337-12-18 23:44 G	41290688.23	41290688.49	41290688.75	0.0090	0.0002
Earth	108337-12-19 03:06 G	41290688.37	41290688.63	41290688.88	0.0090	0.0006 *
Venus	108338-03-27 20:51 G	41290787.20	41290787.37	41290787.55	0.0090	0.0051
Venus	108338-11-08 09:35 G	41291012.72	41291012.90	41291013.10	0.0090	0.0041
Earth	108338-12-21 14:37 G	41291055.86	41291056.11	41291056.36	0.0090	0.0016
Moon	108338-12-21 17:59 G	41291056.01	41291056.25	41291056.52	0.0090	0.0013 *
Venus	108339-06-21 22:03 G	41291238.23	41291238.42	41291238.64	0.0090	0.0031
Moon	108339-12-23 22:47 G	41291423.25	41291423.45	41291423.69	0.0090	0.0042

Earth	108339-12-24 02:08 G	41291423.37	41291423.59	41291423.84	0.0090	0.0038	*
Venus	108340-02-02 10:47 G	41291463.75	41291463.95	41291464.17	0.0090	0.0021	
Venus	108340-09-14 23:44 G	41291689.28	41291689.49	41291689.70	0.0090	0.0010	
Earth	108340-12-25 13:39 G	41291790.90	41291791.07	41291791.28	0.0090	0.0060	
Moon	108340-12-25 17:01 G	41291791.01	41291791.21	41291791.42	0.0090	0.0055	*
Venus	108341-04-28 12:27 G	41291914.80	41291915.02	41291915.23	0.0090	0.0002	
Venus	108341-12-10 00:56 G	41292140.33	41292140.54	41292140.76	0.0090	0.0010	
Moon	108341-12-28 00:13 G	41292158.44	41292158.51	41292158.59	0.0090	0.0085	
Earth	108341-12-28 01:54 G	41292158.47	41292158.58	41292158.68	0.0090	0.0081	*
Venus	108342-07-23 13:25 G	41292365.86	41292366.06	41292366.27	0.0090	0.0021	
Venus	108343-03-06 01:54 G	41292591.39	41292591.58	41292591.79	0.0090	0.0031	
Venus	108343-10-17 14:51 G	41292816.93	41292817.12	41292817.31	0.0090	0.0041	
Venus	108344-05-30 03:06 G	41293042.47	41293042.63	41293042.82	0.0090	0.0052	
Venus	108345-01-10 15:35 G	41293268.02	41293268.15	41293268.33	0.0090	0.0062	
Venus	108345-08-24 04:03 G	41293493.57	41293493.67	41293493.82	0.0090	0.0072	
Venus	108346-04-06 16:47 G	41293719.13	41293719.20	41293719.31	0.0090	0.0082	
Mars	108370-08-05 23:15 G	41302606.20	41302606.47	41302606.76	0.0089	0.0017	
Jupiter	108372-04-18 12:56 G	41303227.57	41303228.04	41303228.54	0.0089	0.0032	
Mars	108372-06-29 08:08 G	41303299.71	41303299.84	41303299.99	0.0089	0.0077	
Mercury	108402-12-09 14:37 G	41314420.09	41314420.11	41314420.15	0.0088	0.0085	
Mercury	108403-03-07 16:03 G	41314508.12	41314508.17	41314508.24	0.0088	0.0078	
Mercury	108403-06-03 17:15 G	41314596.16	41314596.22	41314596.31	0.0088	0.0072	
Mercury	108403-08-30 18:42 G	41314684.20	41314684.28	41314684.38	0.0088	0.0065	
Mercury	108403-11-26 20:08 G	41314772.24	41314772.34	41314772.44	0.0088	0.0058	
Mercury	108404-02-22 21:35 G	41314860.29	41314860.40	41314860.51	0.0088	0.0051	
Mercury	108404-05-20 22:32 G	41314948.34	41314948.44	41314948.57	0.0088	0.0045	
Mercury	108404-08-16 23:59 G	41315036.39	41315036.50	41315036.63	0.0088	0.0038	
Mercury	108404-11-13 01:25 G	41315124.44	41315124.56	41315124.69	0.0088	0.0031	
Mercury	108405-02-09 02:51 G	41315212.49	41315212.62	41315212.75	0.0088	0.0024	
Mercury	108405-05-08 04:03 G	41315300.54	41315300.67	41315300.80	0.0088	0.0018	



Mercury	108405-08-04 05:30 G	41315388.59	41315388.73	41315388.86	0.0088	0.0011
Mercury	108405-10-31 06:42 G	41315476.65	41315476.78	41315476.91	0.0088	0.0004
Mercury	108406-01-27 07:54 G	41315564.70	41315564.83	41315564.97	0.0088	0.0004
Mercury	108406-04-25 09:20 G	41315652.76	41315652.89	41315653.02	0.0088	0.0009
Mercury	108406-07-22 10:32 G	41315740.81	41315740.94	41315741.07	0.0088	0.0016
Mercury	108406-10-18 11:44 G	41315828.87	41315828.99	41315829.12	0.0088	0.0023
Mercury	108407-01-14 13:11 G	41315916.92	41315917.05	41315917.17	0.0088	0.0029
Mercury	108407-04-12 14:23 G	41316004.98	41316005.10	41316005.22	0.0088	0.0036
Mercury	108407-07-09 15:35 G	41316093.04	41316093.15	41316093.27	0.0088	0.0043
Mercury	108407-10-05 17:01 G	41316181.10	41316181.21	41316181.32	0.0088	0.0049
Mercury	108408-01-01 18:13 G	41316269.16	41316269.26	41316269.37	0.0088	0.0056
Mercury	108408-03-29 19:25 G	41316357.23	41316357.31	41316357.41	0.0088	0.0063
Mercury	108408-06-25 20:51 G	41316445.29	41316445.37	41316445.45	0.0088	0.0069
Mercury	108408-09-21 21:49 G	41316533.36	41316533.41	41316533.49	0.0088	0.0076
Mercury	108408-12-18 23:01 G	41316621.43	41316621.46	41316621.52	0.0088	0.0083
Earth	108416-06-09 05:15 G	41319350.62	41319350.72	41319350.85	0.0088	0.0078
Moon	108416-06-09 08:37 G	41319350.80	41319350.86	41319350.96	0.0088	0.0083 *
Moon	108417-06-11 14:37 G	41319717.91	41319718.11	41319718.32	0.0088	0.0053
Earth	108417-06-11 16:18 G	41319718.01	41319718.18	41319718.40	0.0088	0.0058 *
Earth	108418-06-14 03:49 G	41320085.44	41320085.66	41320085.92	0.0088	0.0037
Moon	108418-06-14 05:15 G	41320085.50	41320085.72	41320085.97	0.0088	0.0041 *
Venus	108418-07-04 13:54 G	41320106.00	41320106.08	41320106.19	0.0088	0.0079
Venus	108419-02-15 03:06 G	41320331.51	41320331.63	41320331.78	0.0088	0.0069
Earth	108419-06-16 15:35 G	41320452.90	41320453.15	41320453.41	0.0088	0.0016
Moon	108419-06-16 15:20 G	41320452.90	41320453.14	41320453.40	0.0088	0.0012 *
Venus	108419-09-28 16:47 G	41320557.03	41320557.20	41320557.36	0.0088	0.0059
Venus	108420-05-11 05:44 G	41320782.57	41320782.74	41320782.94	0.0088	0.0050
Moon	108420-06-18 01:25 G	41320820.30	41320820.56	41320820.84	0.0088	0.0002
Earth	108420-06-18 03:06 G	41320820.38	41320820.63	41320820.90	0.0088	0.0006 *
Venus	108420-12-22 18:56 G	41321008.11	41321008.29	41321008.51	0.0088	0.0040

Earth	108421-06-20 14:51 G	41321187.87	41321188.12	41321188.37	0.0088	0.0026
Moon	108421-06-20 16:47 G	41321187.98	41321188.20	41321188.45	0.0088	0.0031 *
Venus	108421-08-05 08:23 G	41321233.65	41321233.85	41321234.08	0.0088	0.0030
Venus	108422-03-18 22:03 G	41321459.21	41321459.42	41321459.64	0.0088	0.0020
Moon	108422-06-22 22:47 G	41321555.24	41321555.45	41321555.70	0.0088	0.0043
Earth	108422-06-23 01:54 G	41321555.38	41321555.58	41321555.82	0.0088	0.0048 *
Venus	108422-10-30 11:30 G	41321684.76	41321684.98	41321685.21	0.0088	0.0010
Venus	108423-06-13 00:56 G	41321910.32	41321910.54	41321910.77	0.0088	0.0001
Earth	108423-06-25 13:54 G	41321922.93	41321923.08	41321923.25	0.0088	0.0068
Moon	108423-06-25 17:15 G	41321923.10	41321923.22	41321923.39	0.0088	0.0073 *
Venus	108424-01-24 14:08 G	41322135.88	41322136.09	41322136.32	0.0088	0.0011
Moon	108424-06-26 21:49 G	41322290.38	41322290.41	41322290.51	0.0088	0.0085
Venus	108424-09-06 03:35 G	41322361.44	41322361.65	41322361.88	0.0088	0.0021
Venus	108425-04-19 17:01 G	41322587.01	41322587.21	41322587.43	0.0088	0.0031
Venus	108425-12-01 06:13 G	41322812.58	41322812.76	41322812.98	0.0088	0.0041
Venus	108426-07-14 19:39 G	41323038.15	41323038.32	41323038.52	0.0088	0.0051
Venus	108427-02-25 09:20 G	41323263.73	41323263.89	41323264.06	0.0088	0.0060
Venus	108427-10-08 22:47 G	41323489.32	41323489.45	41323489.59	0.0088	0.0070
Venus	108428-05-21 11:59 G	41323714.93	41323715.00	41323715.11	0.0088	0.0080
Mars	108454-04-24 12:42 G	41333183.69	41333184.03	41333184.39	0.0088	0.0008
Mercury	108487-02-07 02:08 G	41345160.53	41345160.59	41345160.65	0.0089	0.0084
Mercury	108487-05-06 05:44 G	41345248.63	41345248.74	41345248.85	0.0089	0.0074
Mercury	108487-08-02 09:20 G	41345336.76	41345336.89	41345337.02	0.0089	0.0064
Mercury	108487-10-29 12:42 G	41345424.89	41345425.03	41345425.19	0.0089	0.0054
Mercury	108488-01-25 16:18 G	41345513.02	41345513.18	41345513.36	0.0089	0.0044
Mercury	108488-04-22 19:54 G	41345601.16	41345601.33	41345601.52	0.0089	0.0034
Mercury	108488-07-19 23:44 G	41345689.31	41345689.49	41345689.68	0.0089	0.0023
Mercury	108488-10-16 03:20 G	41345777.45	41345777.64	41345777.84	0.0089	0.0013
Mercury	108489-01-12 07:11 G	41345865.60	41345865.80	41345865.99	0.0089	0.0003
Mercury	108489-04-10 10:47 G	41345953.76	41345953.95	41345954.14	0.0089	0.0008

Mercury	108489-07-07 14:23 G	41346041.91	41346042.10	41346042.29	0.0089	0.0018
Mercury	108489-10-03 17:59 G	41346130.07	41346130.25	41346130.44	0.0089	0.0028
Mercury	108489-12-30 21:35 G	41346218.23	41346218.40	41346218.58	0.0089	0.0039
Mercury	108490-03-29 01:25 G	41346306.40	41346306.56	41346306.72	0.0089	0.0049
Mercury	108490-06-25 04:47 G	41346394.57	41346394.70	41346394.86	0.0089	0.0060
Mercury	108490-09-21 08:37 G	41346482.75	41346482.86	41346482.99	0.0090	0.0070
Mercury	108490-12-18 12:27 G	41346570.94	41346571.02	41346571.11	0.0090	0.0080
Earth	108498-12-11 23:44 G	41349486.41	41349486.49	41349486.63	0.0090	0.0081
Moon	108498-12-12 01:25 G	41349486.46	41349486.56	41349486.71	0.0090	0.0078 *
Moon	108499-12-14 10:03 G	41349853.74	41349853.92	41349854.12	0.0090	0.0061
Earth	108499-12-14 11:59 G	41349853.83	41349854.00	41349854.22	0.0090	0.0059 *
Venus	108500-08-22 17:30 G	41350105.18	41350105.23	41350105.33	0.0090	0.0084
Earth	108500-12-17 00:13 G	41350221.29	41350221.51	41350221.76	0.0090	0.0037
Moon	108500-12-17 03:35 G	41350221.43	41350221.65	41350221.89	0.0090	0.0034 *
Venus	108501-04-05 06:56 G	41350330.66	41350330.79	41350330.91	0.0090	0.0073
Venus	108501-11-16 19:25 G	41350556.17	41350556.31	41350556.47	0.0090	0.0063
Moon	108501-12-19 08:51 G	41350588.63	41350588.87	41350589.13	0.0090	0.0018
Earth	108501-12-19 12:13 G	41350588.77	41350589.01	41350589.28	0.0090	0.0015 *
Venus	108502-06-30 08:08 G	41350781.68	41350781.84	41350782.03	0.0090	0.0053
Earth	108502-12-22 00:13 G	41350956.26	41350956.51	41350956.77	0.0090	0.0008
Moon	108502-12-22 03:49 G	41350956.40	41350956.66	41350956.92	0.0090	0.0010 *
Venus	108503-02-10 20:51 G	41351007.19	41351007.37	41351007.57	0.0090	0.0043
Venus	108503-09-24 09:35 G	41351232.71	41351232.90	41351233.12	0.0090	0.0033
Moon	108503-12-24 08:51 G	41351323.64	41351323.87	41351324.12	0.0090	0.0028
Earth	108503-12-24 11:59 G	41351323.77	41351324.00	41351324.25	0.0090	0.0030 *
Venus	108504-05-06 22:32 G	41351458.23	41351458.44	41351458.65	0.0090	0.0022
Venus	108504-12-18 11:15 G	41351683.75	41351683.97	41351684.18	0.0090	0.0012
Earth	108504-12-25 23:30 G	41351691.29	41351691.48	41351691.70	0.0090	0.0052
Moon	108504-12-26 00:56 G	41351691.36	41351691.54	41351691.77	0.0090	0.0055 *
Venus	108505-07-31 23:44 G	41351909.28	41351909.49	41351909.71	0.0090	0.0002

Moon	108505-12-28 10:18 G	41352058.80	41352058.93	41352059.09	0.0090	0.0072
Earth	108505-12-28 11:01 G	41352058.84	41352058.96	41352059.13	0.0090	0.0074 *
Venus	108506-03-14 12:13 G	41352134.80	41352135.01	41352135.23	0.0090	0.0009
Venus	108506-10-26 00:56 G	41352360.34	41352360.54	41352360.76	0.0090	0.0019
Venus	108507-06-08 13:39 G	41352585.87	41352586.07	41352586.28	0.0090	0.0029
Venus	108508-01-20 02:08 G	41352811.40	41352811.59	41352811.79	0.0090	0.0039
Venus	108508-09-01 14:51 G	41353036.94	41353037.12	41353037.30	0.0090	0.0049
Venus	108509-04-15 02:51 G	41353262.48	41353262.62	41353262.81	0.0090	0.0060
Venus	108509-11-26 15:35 G	41353488.04	41353488.15	41353488.31	0.0090	0.0070
Venus	108510-07-10 04:03 G	41353713.60	41353713.67	41353713.79	0.0090	0.0080
Venus	108511-02-20 16:47 G	41353939.20	41353939.20	41353939.23	0.0090	0.0090
Mars	108534-03-22 19:11 G	41362370.08	41362370.30	41362370.54	0.0089	0.0051
Mars	108536-02-14 02:51 G	41363063.38	41363063.62	41363063.87	0.0089	0.0043
Mercury	108567-09-06 14:23 G	41374591.07	41374591.10	41374591.16	0.0088	0.0082
Mercury	108567-12-03 15:49 G	41374679.10	41374679.16	41374679.24	0.0088	0.0075
Mercury	108568-02-29 17:15 G	41374767.14	41374767.22	41374767.31	0.0088	0.0068
Mercury	108568-05-27 18:42 G	41374855.19	41374855.28	41374855.38	0.0088	0.0061
Mercury	108568-08-23 19:54 G	41374943.23	41374943.33	41374943.44	0.0088	0.0055
Mercury	108568-11-19 21:06 G	41375031.28	41375031.38	41375031.50	0.0088	0.0048
Mercury	108569-02-15 22:32 G	41375119.33	41375119.44	41375119.56	0.0088	0.0041
Mercury	108569-05-14 23:59 G	41375207.38	41375207.50	41375207.62	0.0088	0.0034
Mercury	108569-08-11 01:11 G	41375295.43	41375295.55	41375295.68	0.0088	0.0028
Mercury	108569-11-07 02:37 G	41375383.48	41375383.61	41375383.74	0.0088	0.0021
Mercury	108570-02-03 03:49 G	41375471.53	41375471.66	41375471.80	0.0088	0.0014
Mercury	108570-05-02 05:15 G	41375559.58	41375559.72	41375559.85	0.0088	0.0008
Mercury	108570-07-29 06:27 G	41375647.64	41375647.77	41375647.91	0.0088	0.0002
Mercury	108570-10-25 07:54 G	41375735.69	41375735.83	41375735.96	0.0088	0.0006
Mercury	108571-01-21 09:06 G	41375823.75	41375823.88	41375824.01	0.0088	0.0013
Mercury	108571-04-19 10:18 G	41375911.80	41375911.93	41375912.06	0.0088	0.0019
Mercury	108571-07-16 11:44 G	41375999.86	41375999.99	41376000.12	0.0088	0.0026

Mercury	108571-10-12 12:56 G	41376087.92	41376088.04	41376088.17	0.0088	0.0033
Mercury	108572-01-08 14:23 G	41376175.98	41376176.10	41376176.21	0.0088	0.0039
Mercury	108572-04-05 15:20 G	41376264.04	41376264.14	41376264.26	0.0088	0.0046
Mercury	108572-07-02 16:32 G	41376352.10	41376352.19	41376352.31	0.0088	0.0053
Mercury	108572-09-28 17:59 G	41376440.16	41376440.25	41376440.35	0.0088	0.0059
Mercury	108572-12-25 19:11 G	41376528.22	41376528.30	41376528.40	0.0088	0.0066
Mercury	108573-03-23 20:37 G	41376616.29	41376616.36	41376616.44	0.0088	0.0072
Mercury	108573-06-19 21:49 G	41376704.36	41376704.41	41376704.47	0.0088	0.0079
Mercury	108573-09-15 22:47 G	41376792.44	41376792.45	41376792.50	0.0088	0.0086
Earth	108580-06-09 14:23 G	41379251.07	41379251.10	41379251.18	0.0088	0.0086
Moon	108580-06-09 17:15 G	41379251.18	41379251.22	41379251.30	0.0088	0.0085 *
Moon	108581-06-11 23:44 G	41379618.34	41379618.49	41379618.68	0.0088	0.0065
Earth	108581-06-12 01:54 G	41379618.43	41379618.58	41379618.77	0.0088	0.0065 *
Earth	108582-06-14 13:25 G	41379985.84	41379986.06	41379986.29	0.0088	0.0044
Moon	108582-06-14 14:08 G	41379985.87	41379986.09	41379986.34	0.0088	0.0044 *
Venus	108582-10-06 23:44 G	41380100.43	41380100.49	41380100.61	0.0088	0.0081
Venus	108583-05-20 13:11 G	41380325.94	41380326.05	41380326.20	0.0088	0.0071
Earth	108583-06-17 00:56 G	41380353.29	41380353.54	41380353.79	0.0088	0.0023
Moon	108583-06-17 01:39 G	41380353.33	41380353.57	41380353.82	0.0088	0.0024 *
Venus	108584-01-01 02:37 G	41380551.46	41380551.61	41380551.78	0.0088	0.0061
Moon	108584-06-18 10:47 G	41380720.68	41380720.95	41380721.22	0.0088	0.0002
Earth	108584-06-18 12:13 G	41380720.75	41380721.01	41380721.28	0.0088	0.0003 *
Venus	108584-08-13 16:03 G	41380776.99	41380777.17	41380777.35	0.0088	0.0051
Venus	108585-03-27 05:01 G	41381002.53	41381002.71	41381002.92	0.0088	0.0042
Earth	108585-06-20 23:30 G	41381088.23	41381088.48	41381088.74	0.0088	0.0019
Moon	108585-06-21 02:23 G	41381088.35	41381088.60	41381088.85	0.0088	0.0019 *
Venus	108585-11-07 18:27 G	41381228.07	41381228.27	41381228.49	0.0088	0.0032
Venus	108586-06-21 07:39 G	41381453.62	41381453.82	41381454.05	0.0088	0.0022
Moon	108586-06-23 07:11 G	41381455.59	41381455.80	41381456.05	0.0088	0.0041
Earth	108586-06-23 10:47 G	41381455.74	41381455.95	41381456.20	0.0088	0.0040 *

Venus	108587-02-01 21:06 G	41381679.16	41381679.38	41381679.61	0.0088	0.0012
Earth	108587-06-25 22:18 G	41381823.26	41381823.43	41381823.64	0.0088	0.0061
Moon	108587-06-26 01:39 G	41381823.41	41381823.57	41381823.78	0.0088	0.0062 *
Venus	108587-09-15 10:32 G	41381904.72	41381904.94	41381905.17	0.0088	0.0002
Venus	108588-04-27 23:59 G	41382130.28	41382130.50	41382130.73	0.0088	0.0009
Moon	108588-06-27 06:13 G	41382190.70	41382190.76	41382190.88	0.0088	0.0082
Earth	108588-06-27 09:49 G	41382190.84	41382190.91	41382191.03	0.0088	0.0082 *
Venus	108588-12-09 13:25 G	41382355.85	41382356.06	41382356.29	0.0088	0.0018
Venus	108589-07-23 02:37 G	41382581.41	41382581.61	41382581.84	0.0088	0.0029
Venus	108590-03-05 16:03 G	41382806.98	41382807.17	41382807.38	0.0088	0.0038
Venus	108590-10-17 05:15 G	41383032.56	41383032.72	41383032.93	0.0088	0.0049
Venus	108591-05-30 19:11 G	41383258.14	41383258.30	41383258.47	0.0088	0.0058
Venus	108592-01-11 08:37 G	41383483.72	41383483.86	41383484.00	0.0088	0.0068
Venus	108592-08-23 21:49 G	41383709.32	41383709.41	41383709.52	0.0088	0.0078
Venus	108593-04-06 11:30 G	41383934.98	41383934.98	41383934.99	0.0088	0.0088
Mars	108617-12-07 14:08 G	41392944.79	41392945.09	41392945.44	0.0088	0.0035
Mars	108619-11-04 07:54 G	41393641.72	41393641.83	41393641.99	0.0088	0.0082
Mercury	108651-11-06 00:27 G	41405331.44	41405331.52	41405331.61	0.0089	0.0080
Mercury	108652-02-02 03:49 G	41405419.55	41405419.66	41405419.79	0.0089	0.0070
Mercury	108652-04-30 07:25 G	41405507.68	41405507.81	41405507.96	0.0089	0.0060
Mercury	108652-07-27 11:01 G	41405595.81	41405595.96	41405596.13	0.0089	0.0050
Mercury	108652-10-23 14:37 G	41405683.95	41405684.11	41405684.29	0.0089	0.0040
Mercury	108653-01-19 18:13 G	41405772.09	41405772.26	41405772.45	0.0089	0.0030
Mercury	108653-04-17 22:03 G	41405860.23	41405860.42	41405860.61	0.0089	0.0019
Mercury	108653-07-15 01:39 G	41405948.38	41405948.57	41405948.77	0.0089	0.0009
Mercury	108653-10-11 05:30 G	41406036.53	41406036.73	41406036.92	0.0089	0.0002
Mercury	108654-01-07 09:06 G	41406124.69	41406124.88	41406125.07	0.0089	0.0012
Mercury	108654-04-05 12:42 G	41406212.84	41406213.03	41406213.22	0.0089	0.0022
Mercury	108654-07-02 16:03 G	41406301.00	41406301.17	41406301.36	0.0089	0.0033
Mercury	108654-09-28 19:54 G	41406389.17	41406389.33	41406389.51	0.0089	0.0043

Mercury	108654-12-25 23:30 G	41406477.33	41406477.48	41406477.65	0.0089	0.0053
Mercury	108655-03-24 02:51 G	41406565.51	41406565.62	41406565.78	0.0090	0.0064
Mercury	108655-06-20 06:42 G	41406653.69	41406653.78	41406653.91	0.0090	0.0074
Mercury	108655-09-16 10:32 G	41406741.88	41406741.94	41406742.02	0.0090	0.0084
Moon	108662-12-13 07:54 G	41409386.78	41409386.83	41409386.94	0.0090	0.0085
Earth	108662-12-13 08:23 G	41409386.84	41409386.85	41409386.90	0.0090	0.0089 *
Moon	108663-12-15 18:42 G	41409754.15	41409754.28	41409754.46	0.0090	0.0072
Earth	108663-12-15 20:23 G	41409754.20	41409754.35	41409754.54	0.0090	0.0067 *
Venus	108664-11-25 04:03 G	41410099.63	41410099.67	41410099.76	0.0090	0.0086
Earth	108664-12-17 08:37 G	41410121.65	41410121.86	41410122.09	0.0090	0.0045
Moon	108664-12-17 10:32 G	41410121.74	41410121.94	41410122.18	0.0090	0.0041 *
Venus	108665-07-08 17:01 G	41410325.11	41410325.21	41410325.34	0.0090	0.0076
Moon	108665-12-19 17:30 G	41410489.00	41410489.23	41410489.49	0.0090	0.0028
Earth	108665-12-19 20:37 G	41410489.13	41410489.36	41410489.62	0.0090	0.0023 *
Venus	108666-02-19 05:44 G	41410550.62	41410550.74	41410550.91	0.0090	0.0066
Venus	108666-10-02 19:11 G	41410776.13	41410776.30	41410776.47	0.0090	0.0055
Earth	108666-12-22 08:51 G	41410856.61	41410856.87	41410857.12	0.0090	0.0001
Moon	108666-12-22 12:27 G	41410856.76	41410857.02	41410857.27	0.0090	0.0004 *
Venus	108667-05-16 07:54 G	41411001.65	41411001.83	41411002.02	0.0090	0.0045
Moon	108667-12-24 17:30 G	41411223.98	41411224.23	41411224.48	0.0090	0.0017
Earth	108667-12-24 20:37 G	41411224.12	41411224.36	41411224.62	0.0090	0.0022 *
Venus	108667-12-27 20:23 G	41411227.17	41411227.35	41411227.56	0.0090	0.0035
Venus	108668-08-09 09:06 G	41411452.69	41411452.88	41411453.10	0.0090	0.0025
Earth	108668-12-26 08:23 G	41411591.64	41411591.85	41411592.09	0.0090	0.0044
Moon	108668-12-26 11:59 G	41411591.78	41411592.00	41411592.22	0.0090	0.0048 *
Venus	108669-03-22 22:03 G	41411678.21	41411678.42	41411678.64	0.0090	0.0014
Venus	108669-11-03 11:01 G	41411903.74	41411903.96	41411904.17	0.0090	0.0004
Moon	108669-12-28 18:27 G	41411959.10	41411959.27	41411959.46	0.0090	0.0061
Earth	108669-12-28 20:08 G	41411959.18	41411959.34	41411959.53	0.0090	0.0066 *
Venus	108670-06-16 23:30 G	41412129.27	41412129.48	41412129.70	0.0090	0.0007

Earth	108670-12-31 07:25 G	41412326.79	41412326.81	41412326.90	0.0090	0.0088
Venus	108671-01-28 11:59 G	41412354.80	41412355.00	41412355.22	0.0090	0.0017
Venus	108671-09-11 00:42 G	41412580.33	41412580.53	41412580.74	0.0090	0.0027
Venus	108672-04-23 13:25 G	41412805.87	41412806.06	41412806.26	0.0090	0.0037
Venus	108672-12-05 01:54 G	41413031.41	41413031.58	41413031.77	0.0090	0.0047
Venus	108673-07-18 14:37 G	41413256.95	41413257.11	41413257.28	0.0090	0.0057
Venus	108674-03-01 02:37 G	41413482.50	41413482.61	41413482.78	0.0090	0.0068
Venus	108674-10-12 15:20 G	41413708.06	41413708.14	41413708.27	0.0090	0.0078
Venus	108675-05-26 03:49 G	41413933.64	41413933.66	41413933.74	0.0090	0.0088
Mars	108697-11-06 12:56 G	41422133.96	41422134.04	41422134.13	0.0089	0.0085
Mars	108699-09-30 21:35 G	41422827.12	41422827.40	41422827.69	0.0089	0.0009
Mercury	108732-03-08 12:42 G	41434674.02	41434674.03	41434674.07	0.0088	0.0086
Mercury	108732-06-04 14:08 G	41434762.04	41434762.09	41434762.16	0.0088	0.0079
Mercury	108732-08-31 15:35 G	41434850.08	41434850.15	41434850.23	0.0088	0.0072
Mercury	108732-11-27 17:01 G	41434938.12	41434938.21	41434938.30	0.0088	0.0065
Mercury	108733-02-23 17:59 G	41435026.17	41435026.25	41435026.37	0.0088	0.0059
Mercury	108733-05-22 19:25 G	41435114.21	41435114.31	41435114.43	0.0088	0.0052
Mercury	108733-08-18 20:51 G	41435202.26	41435202.37	41435202.49	0.0088	0.0045
Mercury	108733-11-14 22:18 G	41435290.31	41435290.43	41435290.55	0.0088	0.0038
Mercury	108734-02-10 23:30 G	41435378.36	41435378.48	41435378.61	0.0088	0.0032
Mercury	108734-05-10 00:56 G	41435466.41	41435466.54	41435466.67	0.0088	0.0025
Mercury	108734-08-06 02:08 G	41435554.46	41435554.59	41435554.73	0.0088	0.0018
Mercury	108734-11-02 03:35 G	41435642.52	41435642.65	41435642.78	0.0088	0.0011
Mercury	108735-01-29 04:47 G	41435730.57	41435730.70	41435730.84	0.0088	0.0006
Mercury	108735-04-27 06:13 G	41435818.63	41435818.76	41435818.89	0.0088	0.0002
Mercury	108735-07-24 07:25 G	41435906.68	41435906.81	41435906.95	0.0088	0.0009
Mercury	108735-10-20 08:37 G	41435994.74	41435994.86	41435995.00	0.0088	0.0016
Mercury	108736-01-16 10:03 G	41436082.79	41436082.92	41436083.05	0.0088	0.0022
Mercury	108736-04-13 11:15 G	41436170.85	41436170.97	41436171.10	0.0088	0.0029
Mercury	108736-07-10 12:27 G	41436258.91	41436259.02	41436259.15	0.0088	0.0036



Mercury	108736-10-06 13:54 G	41436346.97	41436347.08	41436347.20	0.0088	0.0042
Mercury	108737-01-02 15:06 G	41436435.03	41436435.13	41436435.25	0.0088	0.0049
Mercury	108737-03-31 16:32 G	41436523.09	41436523.19	41436523.29	0.0088	0.0055
Mercury	108737-06-27 17:44 G	41436611.15	41436611.24	41436611.34	0.0088	0.0062
Mercury	108737-09-23 18:42 G	41436699.22	41436699.28	41436699.38	0.0088	0.0069
Mercury	108737-12-20 20:08 G	41436787.28	41436787.34	41436787.42	0.0088	0.0075
Mercury	108738-03-18 21:20 G	41436875.36	41436875.39	41436875.45	0.0088	0.0082
Moon	108745-06-13 08:08 G	41439518.74	41439518.84	41439518.98	0.0088	0.0077
Earth	108745-06-13 10:47 G	41439518.83	41439518.95	41439519.12	0.0088	0.0073 *
Earth	108746-06-15 22:18 G	41439886.24	41439886.43	41439886.66	0.0088	0.0052
Moon	108746-06-16 00:13 G	41439886.31	41439886.51	41439886.75	0.0088	0.0049 *
Venus	108747-01-10 10:03 G	41440094.86	41440094.92	41440095.01	0.0088	0.0082
Moon	108747-06-18 08:51 G	41440253.65	41440253.87	41440254.12	0.0088	0.0035
Earth	108747-06-18 09:49 G	41440253.68	41440253.91	41440254.17	0.0088	0.0031 *
Venus	108747-08-23 23:01 G	41440320.36	41440320.46	41440320.61	0.0088	0.0073
Venus	108748-04-05 12:27 G	41440545.89	41440546.02	41440546.20	0.0088	0.0063
Moon	108748-06-19 20:23 G	41440621.08	41440621.35	41440621.62	0.0088	0.0006
Earth	108748-06-19 21:20 G	41440621.13	41440621.39	41440621.65	0.0088	0.0010 *
Venus	108748-11-17 01:54 G	41440771.42	41440771.58	41440771.77	0.0088	0.0053
Earth	108749-06-22 08:37 G	41440988.61	41440988.86	41440989.12	0.0088	0.0011
Moon	108749-06-22 10:32 G	41440988.69	41440988.94	41440989.19	0.0088	0.0008 *
Venus	108749-06-30 15:20 G	41440996.95	41440997.14	41440997.34	0.0088	0.0043
Venus	108750-02-11 04:32 G	41441222.49	41441222.69	41441222.90	0.0088	0.0033
Moon	108750-06-24 17:01 G	41441355.98	41441356.21	41441356.47	0.0088	0.0036
Earth	108750-06-24 20:08 G	41441356.10	41441356.34	41441356.59	0.0088	0.0032 *
Venus	108750-09-24 17:30 G	41441448.03	41441448.23	41441448.46	0.0088	0.0024
Venus	108751-05-08 07:11 G	41441673.58	41441673.80	41441674.03	0.0088	0.0013
Earth	108751-06-27 07:25 G	41441723.61	41441723.81	41441724.02	0.0088	0.0053
Moon	108751-06-27 11:01 G	41441723.75	41441723.96	41441724.18	0.0088	0.0049 *
Venus	108751-12-19 20:37 G	41441899.13	41441899.36	41441899.58	0.0088	0.0003

Moon	108752-06-28 15:06 G	41442091.04	41442091.13	41442091.27	0.0088	0.0078
Earth	108752-06-28 18:42 G	41442091.16	41442091.28	41442091.44	0.0088	0.0074 *
Venus	108752-08-01 09:49 G	41442124.69	41442124.91	41442125.14	0.0088	0.0007
Venus	108753-03-14 23:01 G	41442350.25	41442350.46	41442350.69	0.0088	0.0017
Venus	108753-10-26 12:27 G	41442575.81	41442576.02	41442576.24	0.0088	0.0027
Venus	108754-06-09 01:39 G	41442801.38	41442801.57	41442801.79	0.0088	0.0037
Venus	108755-01-20 15:06 G	41443026.95	41443027.13	41443027.33	0.0088	0.0047
Venus	108755-09-03 04:47 G	41443252.53	41443252.70	41443252.87	0.0088	0.0056
Venus	108756-04-15 18:13 G	41443478.12	41443478.26	41443478.41	0.0088	0.0066
Venus	108756-11-27 07:25 G	41443703.72	41443703.81	41443703.94	0.0088	0.0076
Venus	108757-07-10 20:37 G	41443929.34	41443929.36	41443929.43	0.0088	0.0086
Mars	108781-07-21 15:06 G	41452705.99	41452706.13	41452706.33	0.0088	0.0077
Mars	108783-06-18 09:20 G	41453402.59	41453402.89	41453403.22	0.0088	0.0039
Mercury	108816-05-06 18:42 G	41465414.25	41465414.28	41465414.35	0.0089	0.0086
Mercury	108816-08-02 22:18 G	41465502.35	41465502.43	41465502.55	0.0089	0.0076
Mercury	108816-10-30 01:54 G	41465590.47	41465590.58	41465590.72	0.0089	0.0066
Mercury	108817-01-26 05:30 G	41465678.60	41465678.73	41465678.89	0.0089	0.0056
Mercury	108817-04-24 09:20 G	41465766.73	41465766.89	41465767.06	0.0089	0.0046
Mercury	108817-07-21 12:56 G	41465854.87	41465855.04	41465855.22	0.0089	0.0036
Mercury	108817-10-17 16:32 G	41465943.01	41465943.19	41465943.38	0.0089	0.0026
Mercury	108818-01-13 20:08 G	41466031.16	41466031.34	41466031.54	0.0089	0.0016
Mercury	108818-04-11 23:59 G	41466119.30	41466119.50	41466119.69	0.0089	0.0005
Mercury	108818-07-09 03:35 G	41466207.46	41466207.65	41466207.84	0.0089	0.0005
Mercury	108818-10-05 06:56 G	41466295.61	41466295.79	41466295.99	0.0089	0.0016
Mercury	108819-01-01 10:47 G	41466383.77	41466383.95	41466384.14	0.0089	0.0026
Mercury	108819-03-30 14:23 G	41466471.93	41466472.10	41466472.28	0.0089	0.0036
Mercury	108819-06-26 17:44 G	41466560.09	41466560.24	41466560.42	0.0089	0.0047
Mercury	108819-09-22 21:35 G	41466648.26	41466648.40	41466648.56	0.0089	0.0057
Mercury	108819-12-20 01:25 G	41466736.44	41466736.56	41466736.69	0.0089	0.0067
Mercury	108820-03-17 04:47 G	41466824.62	41466824.70	41466824.81	0.0090	0.0078

Mercury	108820-06-13 08:23 G	41466912.83	41466912.85	41466912.91	0.0090	0.0088
Moon	108827-12-16 02:08 G	41469654.48	41469654.59	41469654.75	0.0090	0.0076
Earth	108827-12-16 04:32 G	41469654.58	41469654.69	41469654.85	0.0090	0.0076 *
Earth	108828-12-17 16:32 G	41470022.00	41470022.19	41470022.41	0.0090	0.0054
Moon	108828-12-17 19:54 G	41470022.14	41470022.33	41470022.55	0.0090	0.0053 *
Venus	108829-02-27 14:37 G	41470094.09	41470094.11	41470094.17	0.0090	0.0088
Venus	108829-10-11 03:35 G	41470319.56	41470319.65	41470319.78	0.0090	0.0078
Moon	108829-12-20 00:56 G	41470389.32	41470389.54	41470389.79	0.0090	0.0032
Earth	108829-12-20 04:32 G	41470389.46	41470389.69	41470389.94	0.0090	0.0032 *
Venus	108830-05-24 16:18 G	41470545.06	41470545.18	41470545.34	0.0090	0.0068
Earth	108830-12-22 16:32 G	41470756.94	41470757.19	41470757.45	0.0090	0.0010
Moon	108830-12-22 20:08 G	41470757.08	41470757.34	41470757.60	0.0090	0.0008 *
Venus	108831-01-05 05:01 G	41470770.57	41470770.71	41470770.90	0.0090	0.0058
Venus	108831-08-18 17:44 G	41470996.08	41470996.24	41470996.45	0.0090	0.0048
Moon	108831-12-25 01:54 G	41471124.33	41471124.58	41471124.83	0.0090	0.0012
Earth	108831-12-25 04:47 G	41471124.45	41471124.70	41471124.96	0.0090	0.0013 *
Venus	108832-03-31 06:56 G	41471221.60	41471221.79	41471221.99	0.0090	0.0037
Venus	108832-11-11 19:39 G	41471447.13	41471447.32	41471447.54	0.0090	0.0027
Earth	108832-12-26 16:32 G	41471491.96	41471492.19	41471492.43	0.0090	0.0035
Moon	108832-12-26 17:44 G	41471492.02	41471492.24	41471492.50	0.0090	0.0036 *
Venus	108833-06-25 08:37 G	41471672.65	41471672.86	41471673.07	0.0090	0.0017
Moon	108833-12-29 03:20 G	41471859.47	41471859.64	41471859.86	0.0090	0.0057
Earth	108833-12-29 04:32 G	41471859.50	41471859.69	41471859.89	0.0090	0.0057 *
Venus	108834-02-05 21:20 G	41471898.18	41471898.39	41471898.61	0.0090	0.0006
Venus	108834-09-19 10:03 G	41472123.71	41472123.92	41472124.14	0.0090	0.0004
Moon	108834-12-31 15:06 G	41472227.04	41472227.13	41472227.27	0.0090	0.0080
Earth	108834-12-31 16:03 G	41472227.07	41472227.17	41472227.30	0.0090	0.0079 *
Venus	108835-05-02 22:47 G	41472349.24	41472349.45	41472349.67	0.0090	0.0014
Venus	108835-12-14 11:15 G	41472574.77	41472574.97	41472575.19	0.0090	0.0025
Venus	108836-07-26 23:44 G	41472800.31	41472800.49	41472800.70	0.0090	0.0035

Venus	108837-03-09 12:27 G	41473025.84	41473026.02	41473026.22	0.0090	0.0045
Venus	108837-10-21 01:11 G	41473251.39	41473251.55	41473251.73	0.0090	0.0055
Venus	108838-06-03 13:39 G	41473476.94	41473477.07	41473477.23	0.0090	0.0065
Venus	108839-01-15 02:08 G	41473702.49	41473702.59	41473702.72	0.0090	0.0075
Venus	108839-08-28 14:37 G	41473928.06	41473928.11	41473928.20	0.0090	0.0085
Mars	108863-05-17 14:08 G	41482590.84	41482591.09	41482591.38	0.0089	0.0026
Mars	108865-04-09 22:47 G	41483284.29	41483284.45	41483284.65	0.0089	0.0069
Mercury	108896-12-03 12:27 G	41494844.99	41494845.02	41494845.07	0.0088	0.0083
Mercury	108897-03-01 13:54 G	41494933.02	41494933.08	41494933.15	0.0088	0.0076
Mercury	108897-05-28 15:20 G	41495021.06	41495021.14	41495021.22	0.0088	0.0069
Mercury	108897-08-24 16:18 G	41495109.10	41495109.18	41495109.29	0.0088	0.0063
Mercury	108897-11-20 17:44 G	41495197.15	41495197.24	41495197.35	0.0088	0.0056
Mercury	108898-02-16 19:11 G	41495285.20	41495285.30	41495285.42	0.0088	0.0049
Mercury	108898-05-15 20:37 G	41495373.25	41495373.36	41495373.48	0.0088	0.0042
Mercury	108898-08-11 21:49 G	41495461.29	41495461.41	41495461.54	0.0088	0.0036
Mercury	108898-11-07 23:15 G	41495549.35	41495549.47	41495549.60	0.0088	0.0029
Mercury	108899-02-04 00:27 G	41495637.40	41495637.52	41495637.66	0.0088	0.0022
Mercury	108899-05-03 01:54 G	41495725.45	41495725.58	41495725.71	0.0088	0.0015
Mercury	108899-07-30 03:20 G	41495813.50	41495813.64	41495813.77	0.0088	0.0009
Mercury	108899-10-26 04:32 G	41495901.56	41495901.69	41495901.82	0.0088	0.0002
Mercury	108900-01-22 05:44 G	41495989.61	41495989.74	41495989.88	0.0088	0.0006
Mercury	108900-04-20 07:11 G	41496077.67	41496077.80	41496077.93	0.0088	0.0012
Mercury	108900-07-17 08:23 G	41496165.72	41496165.85	41496165.98	0.0088	0.0018
Mercury	108900-10-13 09:35 G	41496253.78	41496253.90	41496254.04	0.0088	0.0025
Mercury	108901-01-09 10:47 G	41496341.84	41496341.95	41496342.09	0.0088	0.0032
Mercury	108901-04-07 12:13 G	41496429.90	41496430.01	41496430.14	0.0088	0.0038
Mercury	108901-07-04 13:25 G	41496517.96	41496518.06	41496518.18	0.0088	0.0045
Mercury	108901-09-30 14:37 G	41496606.02	41496606.11	41496606.23	0.0088	0.0052
Mercury	108901-12-27 16:03 G	41496694.08	41496694.17	41496694.28	0.0088	0.0058
Mercury	108902-03-25 17:15 G	41496782.14	41496782.22	41496782.32	0.0088	0.0065

Mercury	108902-06-21 18:42 G	41496870.21	41496870.28	41496870.36	0.0088	0.0071
Mercury	108902-09-17 19:54 G	41496958.28	41496958.33	41496958.40	0.0088	0.0078
Mercury	108902-12-14 21:20 G	41497046.36	41497046.39	41497046.42	0.0088	0.0084
Moon	108909-06-13 18:42 G	41499419.20	41499419.28	41499419.37	0.0088	0.0082
Earth	108909-06-13 18:56 G	41499419.22	41499419.29	41499419.42	0.0088	0.0081 *
Moon	108910-06-16 06:13 G	41499786.57	41499786.76	41499786.97	0.0088	0.0058
Earth	108910-06-16 06:27 G	41499786.60	41499786.77	41499786.98	0.0088	0.0060 *
Venus	108911-04-14 19:39 G	41500089.28	41500089.32	41500089.40	0.0088	0.0084
Earth	108911-06-18 17:59 G	41500154.03	41500154.25	41500154.49	0.0088	0.0039
Moon	108911-06-18 20:08 G	41500154.13	41500154.34	41500154.58	0.0088	0.0040 *
Venus	108911-11-26 08:37 G	41500314.77	41500314.86	41500315.01	0.0088	0.0075
Moon	108912-06-20 02:37 G	41500521.36	41500521.61	41500521.88	0.0088	0.0017
Earth	108912-06-20 05:30 G	41500521.48	41500521.73	41500521.99	0.0088	0.0018 *
Venus	108912-07-08 22:03 G	41500540.29	41500540.42	41500540.59	0.0088	0.0065
Venus	108913-02-19 11:15 G	41500765.81	41500765.97	41500766.16	0.0088	0.0055
Earth	108913-06-22 17:01 G	41500888.95	41500889.21	41500889.47	0.0088	0.0003
Moon	108913-06-22 20:37 G	41500889.10	41500889.36	41500889.61	0.0088	0.0002 *
Venus	108913-10-03 00:42 G	41500991.35	41500991.53	41500991.73	0.0088	0.0045
Venus	108914-05-16 14:08 G	41501216.89	41501217.09	41501217.30	0.0088	0.0035
Moon	108914-06-25 00:27 G	41501256.29	41501256.52	41501256.78	0.0088	0.0026
Earth	108914-06-25 04:03 G	41501256.43	41501256.67	41501256.93	0.0088	0.0025 *
Venus	108914-12-28 03:06 G	41501442.43	41501442.63	41501442.86	0.0088	0.0026
Earth	108915-06-27 15:20 G	41501623.93	41501624.14	41501624.38	0.0088	0.0046
Moon	108915-06-27 18:27 G	41501624.06	41501624.27	41501624.52	0.0088	0.0044 *
Venus	108915-08-10 16:32 G	41501667.98	41501668.19	41501668.42	0.0088	0.0016
Venus	108916-03-23 05:59 G	41501893.53	41501893.75	41501893.98	0.0088	0.0006
Moon	108916-06-28 23:59 G	41501991.37	41501991.50	41501991.68	0.0088	0.0069
Earth	108916-06-29 02:37 G	41501991.46	41501991.61	41501991.80	0.0088	0.0067 *
Venus	108916-11-03 19:25 G	41502119.08	41502119.31	41502119.53	0.0088	0.0005
Venus	108917-06-17 08:23 G	41502344.64	41502344.85	41502345.08	0.0088	0.0015

Earth	108917-07-01 14:37 G	41502359.09	41502359.11	41502359.14	0.0088	0.0087
Moon	108917-07-01 15:06 G	41502359.10	41502359.13	41502359.20	0.0088	0.0086 *
Venus	108918-01-28 21:35 G	41502570.20	41502570.40	41502570.63	0.0088	0.0025
Venus	108918-09-11 10:47 G	41502795.76	41502795.95	41502796.18	0.0088	0.0035
Venus	108919-04-25 00:42 G	41503021.34	41503021.53	41503021.73	0.0088	0.0044
Venus	108919-12-06 13:54 G	41503246.91	41503247.08	41503247.27	0.0088	0.0054
Venus	108920-07-19 03:06 G	41503472.50	41503472.63	41503472.80	0.0088	0.0064
Venus	108921-03-01 16:32 G	41503698.09	41503698.19	41503698.33	0.0088	0.0074
Venus	108921-10-13 05:44 G	41503923.70	41503923.74	41503923.84	0.0088	0.0084
Mars	108947-01-30 08:37 G	41513163.51	41513163.86	41513164.22	0.0088	0.0006
Mercury	108981-02-01 16:32 G	41525585.14	41525585.19	41525585.28	0.0089	0.0084
Mercury	108981-04-30 20:08 G	41525673.25	41525673.34	41525673.47	0.0089	0.0074
Mercury	108981-07-27 23:44 G	41525761.37	41525761.49	41525761.64	0.0089	0.0063
Mercury	108981-10-24 03:20 G	41525849.50	41525849.64	41525849.81	0.0089	0.0053
Mercury	108982-01-20 06:56 G	41525937.64	41525937.79	41525937.97	0.0089	0.0043
Mercury	108982-04-18 10:47 G	41526025.78	41526025.95	41526026.13	0.0089	0.0033
Mercury	108982-07-15 14:23 G	41526113.92	41526114.10	41526114.29	0.0089	0.0023
Mercury	108982-10-11 17:59 G	41526202.06	41526202.25	41526202.45	0.0089	0.0013
Mercury	108983-01-07 21:35 G	41526290.21	41526290.40	41526290.60	0.0089	0.0003
Mercury	108983-04-06 01:11 G	41526378.36	41526378.55	41526378.75	0.0089	0.0008
Mercury	108983-07-03 04:47 G	41526466.52	41526466.70	41526466.90	0.0089	0.0018
Mercury	108983-09-29 08:23 G	41526554.68	41526554.85	41526555.04	0.0089	0.0029
Mercury	108983-12-26 11:59 G	41526642.84	41526643.00	41526643.19	0.0089	0.0039
Mercury	108984-03-23 15:49 G	41526731.00	41526731.16	41526731.33	0.0089	0.0049
Mercury	108984-06-19 19:11 G	41526819.17	41526819.30	41526819.46	0.0089	0.0060
Mercury	108984-09-15 22:47 G	41526907.35	41526907.45	41526907.59	0.0089	0.0070
Mercury	108984-12-13 02:37 G	41526995.54	41526995.61	41526995.71	0.0090	0.0080
Moon	108991-12-16 08:08 G	41529554.75	41529554.84	41529554.98	0.0090	0.0080
Earth	108991-12-16 11:59 G	41529554.94	41529555.00	41529555.10	0.0090	0.0085 *
Earth	108992-12-17 23:44 G	41529922.33	41529922.49	41529922.69	0.0090	0.0063

Moon	108992-12-18 03:20 G	41529922.48	41529922.64	41529922.82	0.0090	0.0067	*
Moon	108993-12-20 09:20 G	41530289.66	41530289.89	41530290.12	0.0090	0.0036	
Earth	108993-12-20 11:59 G	41530289.78	41530290.00	41530290.24	0.0090	0.0041	*
Venus	108994-01-13 13:54 G	41530313.99	41530314.08	41530314.18	0.0090	0.0080	
Venus	108994-08-27 02:37 G	41530539.48	41530539.61	41530539.75	0.0090	0.0070	
Earth	108994-12-22 23:59 G	41530657.26	41530657.50	41530657.76	0.0090	0.0018	
Moon	108994-12-23 02:08 G	41530657.34	41530657.59	41530657.84	0.0090	0.0023	*
Venus	108995-04-09 15:20 G	41530764.99	41530765.14	41530765.31	0.0090	0.0060	
Venus	108995-11-21 04:03 G	41530990.51	41530990.67	41530990.86	0.0090	0.0050	
Moon	108995-12-25 11:44 G	41531024.75	41531024.99	41531025.24	0.0090	0.0008	
Earth	108995-12-25 12:13 G	41531024.75	41531025.01	41531025.26	0.0090	0.0004	*
Venus	108996-07-03 16:47 G	41531216.02	41531216.20	41531216.41	0.0090	0.0040	
Moon	108996-12-26 23:15 G	41531392.22	41531392.47	41531392.74	0.0090	0.0022	
Earth	108996-12-26 23:59 G	41531392.26	41531392.50	41531392.75	0.0090	0.0026	*
Venus	108997-02-14 05:30 G	41531441.54	41531441.73	41531441.95	0.0090	0.0030	
Venus	108997-09-27 18:42 G	41531667.07	41531667.28	41531667.50	0.0090	0.0019	
Earth	108997-12-29 11:44 G	41531759.78	41531759.99	41531760.21	0.0090	0.0048	
Moon	108997-12-29 13:54 G	41531759.88	41531760.08	41531760.28	0.0090	0.0053	*
Venus	108998-05-11 07:25 G	41531892.60	41531892.81	41531893.03	0.0090	0.0009	
Venus	108998-12-22 20:08 G	41532118.13	41532118.34	41532118.56	0.0090	0.0003	
Moon	108998-12-31 20:23 G	41532127.19	41532127.35	41532127.54	0.0090	0.0066	
Earth	108998-12-31 23:15 G	41532127.34	41532127.47	41532127.66	0.0090	0.0071	*
Venus	108999-08-05 08:51 G	41532343.66	41532343.87	41532344.09	0.0090	0.0012	
Venus	109000-03-18 21:35 G	41532569.20	41532569.40	41532569.61	0.0090	0.0022	
Venus	109000-10-30 10:32 G	41532794.74	41532794.94	41532795.14	0.0090	0.0032	

# 110TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 110th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	109001-06-12 23:15	G	41533020.28	41533020.47	41533020.66	0.0090	0.0042	
Venus	109002-01-24 11:15	G	41533245.82	41533245.97	41533246.17	0.0090	0.0053	
Venus	109002-09-06 23:59	G	41533471.36	41533471.50	41533471.67	0.0090	0.0063	
Venus	109003-04-20 12:27	G	41533696.92	41533697.02	41533697.17	0.0090	0.0073	
Venus	109003-12-02 01:11	G	41533922.49	41533922.55	41533922.65	0.0090	0.0083	
Mars	109027-01-02 07:25	G	41542354.63	41542354.81	41542355.04	0.0089	0.0062	
Mars	109028-11-25 15:20	G	41543047.89	41543048.14	41543048.41	0.0089	0.0034	
Mercury	109061-06-05 10:47	G	41554927.94	41554927.95	41554927.96	0.0088	0.0087	
Mercury	109061-09-01 11:44	G	41555015.95	41555015.99	41555016.06	0.0088	0.0081	
Mercury	109061-11-28 13:11	G	41555103.99	41555104.05	41555104.13	0.0088	0.0074	
Mercury	109062-02-24 14:37	G	41555192.03	41555192.11	41555192.20	0.0088	0.0067	
Mercury	109062-05-23 16:03	G	41555280.08	41555280.17	41555280.27	0.0088	0.0060	
Mercury	109062-08-19 17:30	G	41555368.12	41555368.23	41555368.34	0.0088	0.0053	
Mercury	109062-11-15 18:42	G	41555456.17	41555456.28	41555456.40	0.0088	0.0047	
Mercury	109063-02-11 20:08	G	41555544.22	41555544.34	41555544.46	0.0088	0.0040	
Mercury	109063-05-10 21:20	G	41555632.27	41555632.39	41555632.52	0.0088	0.0033	
Mercury	109063-08-06 22:47	G	41555720.32	41555720.45	41555720.58	0.0088	0.0026	
Mercury	109063-11-02 23:59	G	41555808.38	41555808.50	41555808.64	0.0088	0.0020	
Mercury	109064-01-30 01:25	G	41555896.43	41555896.56	41555896.69	0.0088	0.0013	
Mercury	109064-04-27 02:51	G	41555984.48	41555984.62	41555984.75	0.0088	0.0006	
Mercury	109064-07-24 04:03	G	41556072.54	41556072.67	41556072.81	0.0088	0.0001	



Mercury	109064-10-20 05:30 G	41556160.59	41556160.73	41556160.86	0.0088	0.0008
Mercury	109065-01-16 06:42 G	41556248.65	41556248.78	41556248.91	0.0088	0.0014
Mercury	109065-04-14 07:54 G	41556336.71	41556336.83	41556336.96	0.0088	0.0021
Mercury	109065-07-11 09:20 G	41556424.76	41556424.89	41556425.02	0.0088	0.0027
Mercury	109065-10-07 10:32 G	41556512.82	41556512.94	41556513.07	0.0088	0.0034
Mercury	109066-01-03 11:44 G	41556600.88	41556600.99	41556601.12	0.0088	0.0041
Mercury	109066-04-01 13:11 G	41556688.94	41556689.05	41556689.16	0.0088	0.0047
Mercury	109066-06-28 14:23 G	41556777.00	41556777.10	41556777.21	0.0088	0.0054
Mercury	109066-09-24 15:35 G	41556865.07	41556865.15	41556865.26	0.0088	0.0061
Mercury	109066-12-21 17:01 G	41556953.13	41556953.21	41556953.30	0.0088	0.0067
Mercury	109067-03-19 18:13 G	41557041.20	41557041.26	41557041.34	0.0088	0.0074
Mercury	109067-06-15 19:39 G	41557129.27	41557129.32	41557129.37	0.0088	0.0080
Mercury	109067-09-11 20:37 G	41557217.36	41557217.36	41557217.39	0.0088	0.0087
Moon	109073-06-14 03:35 G	41559319.61	41559319.65	41559319.73	0.0088	0.0085
Moon	109074-06-16 12:42 G	41559686.89	41559687.03	41559687.19	0.0088	0.0072
Earth	109074-06-16 14:37 G	41559686.96	41559687.11	41559687.29	0.0088	0.0068 *
Earth	109075-06-19 02:08 G	41560054.38	41560054.59	41560054.82	0.0088	0.0047
Moon	109075-06-19 04:32 G	41560054.48	41560054.69	41560054.92	0.0088	0.0043 *
Venus	109075-07-18 05:01 G	41560083.69	41560083.71	41560083.77	0.0088	0.0086
Venus	109076-02-28 18:27 G	41560309.17	41560309.27	41560309.39	0.0088	0.0076
Moon	109076-06-20 09:49 G	41560421.68	41560421.91	41560422.17	0.0088	0.0031
Earth	109076-06-20 13:39 G	41560421.83	41560422.07	41560422.32	0.0088	0.0026 *
Venus	109076-10-11 07:25 G	41560534.69	41560534.81	41560534.98	0.0088	0.0067
Venus	109077-05-24 20:51 G	41560760.22	41560760.37	41560760.56	0.0088	0.0057
Earth	109077-06-23 01:11 G	41560789.29	41560789.55	41560789.81	0.0088	0.0005
Moon	109077-06-23 04:32 G	41560789.43	41560789.69	41560789.96	0.0088	0.0002 *
Venus	109078-01-05 10:18 G	41560985.75	41560985.93	41560986.12	0.0088	0.0047
Moon	109078-06-25 09:06 G	41561156.63	41561156.88	41561157.14	0.0088	0.0012
Earth	109078-06-25 12:27 G	41561156.77	41561157.02	41561157.28	0.0088	0.0017 *
Venus	109078-08-18 23:30 G	41561211.28	41561211.48	41561211.69	0.0088	0.0037

Venus	109079-04-01 12:42 G	41561436.83	41561437.03	41561437.26	0.0088	0.0028
Earth	109079-06-27 23:15 G	41561524.26	41561524.47	41561524.73	0.0088	0.0038
Moon	109079-06-28 02:23 G	41561524.38	41561524.60	41561524.85	0.0088	0.0042 *
Venus	109079-11-13 02:08 G	41561662.37	41561662.59	41561662.82	0.0088	0.0017
Venus	109080-06-25 15:20 G	41561887.92	41561888.14	41561888.37	0.0088	0.0008
Moon	109080-06-29 09:20 G	41561891.71	41561891.89	41561892.11	0.0088	0.0055
Earth	109080-06-29 10:47 G	41561891.78	41561891.95	41561892.16	0.0088	0.0059 *
Venus	109081-02-06 04:32 G	41562113.47	41562113.69	41562113.92	0.0088	0.0003
Earth	109081-07-01 22:03 G	41562259.34	41562259.42	41562259.55	0.0088	0.0080
Moon	109081-07-01 23:01 G	41562259.39	41562259.46	41562259.56	0.0088	0.0083 *
Venus	109081-09-19 17:44 G	41562339.02	41562339.24	41562339.47	0.0088	0.0012
Venus	109082-05-03 07:25 G	41562564.59	41562564.81	41562565.02	0.0088	0.0022
Venus	109082-12-14 20:23 G	41562790.15	41562790.35	41562790.57	0.0088	0.0032
Venus	109083-07-28 09:35 G	41563015.71	41563015.90	41563016.11	0.0088	0.0042
Venus	109084-03-09 22:47 G	41563241.29	41563241.45	41563241.65	0.0088	0.0052
Venus	109084-10-21 11:59 G	41563466.86	41563467.00	41563467.18	0.0088	0.0062
Venus	109085-06-04 01:25 G	41563692.45	41563692.56	41563692.71	0.0088	0.0072
Venus	109086-01-15 15:06 G	41563918.06	41563918.13	41563918.22	0.0088	0.0081
Mars	109110-09-14 07:54 G	41572924.54	41572924.83	41572925.12	0.0088	0.0050
Mars	109112-08-11 00:42 G	41573621.33	41573621.53	41573621.79	0.0088	0.0066
Jupiter	109113-08-26 07:54 G	41574001.31	41574001.83	41574002.41	0.0088	0.0023
Mercury	109145-10-31 14:23 G	41585756.04	41585756.10	41585756.20	0.0089	0.0081
Mercury	109146-01-27 17:59 G	41585844.15	41585844.25	41585844.39	0.0089	0.0071
Mercury	109146-04-25 21:35 G	41585932.28	41585932.40	41585932.56	0.0089	0.0061
Mercury	109146-07-23 01:11 G	41586020.41	41586020.55	41586020.72	0.0089	0.0051
Mercury	109146-10-19 04:47 G	41586108.54	41586108.70	41586108.88	0.0089	0.0041
Mercury	109147-01-15 08:23 G	41586196.68	41586196.85	41586197.04	0.0089	0.0030
Mercury	109147-04-13 12:13 G	41586284.82	41586285.01	41586285.20	0.0089	0.0020
Mercury	109147-07-10 15:49 G	41586372.97	41586373.16	41586373.35	0.0089	0.0010
Mercury	109147-10-06 19:25 G	41586461.12	41586461.31	41586461.50	0.0089	0.0001

Mercury	109148-01-02 23:01 G	41586549.27	41586549.46	41586549.65	0.0089	0.0010
Mercury	109148-03-31 02:37 G	41586637.42	41586637.61	41586637.80	0.0089	0.0021
Mercury	109148-06-27 06:13 G	41586725.58	41586725.76	41586725.94	0.0089	0.0031
Mercury	109148-09-23 09:35 G	41586813.74	41586813.90	41586814.09	0.0090	0.0042
Mercury	109148-12-20 13:11 G	41586901.91	41586902.05	41586902.22	0.0090	0.0052
Mercury	109149-03-18 17:01 G	41586990.08	41586990.21	41586990.36	0.0090	0.0062
Mercury	109149-06-14 20:51 G	41587078.26	41587078.37	41587078.49	0.0090	0.0072
Mercury	109149-09-10 23:59 G	41587166.45	41587166.50	41587166.60	0.0090	0.0083
Earth	109156-12-19 06:27 G	41589822.63	41589822.77	41589822.94	0.0090	0.0072
Moon	109156-12-19 09:49 G	41589822.79	41589822.91	41589823.06	0.0090	0.0076 *
Moon	109157-12-21 14:51 G	41590189.92	41590190.12	41590190.35	0.0090	0.0047
Earth	109157-12-21 18:27 G	41590190.07	41590190.27	41590190.50	0.0090	0.0050 *
Venus	109158-04-18 23:15 G	41590308.40	41590308.47	41590308.56	0.0090	0.0083
Venus	109158-11-30 11:59 G	41590533.89	41590534.00	41590534.14	0.0090	0.0073
Earth	109158-12-24 06:27 G	41590557.54	41590557.77	41590558.02	0.0090	0.0028
Moon	109158-12-24 09:35 G	41590557.68	41590557.90	41590558.16	0.0090	0.0032 *
Venus	109159-07-14 00:42 G	41590759.39	41590759.53	41590759.70	0.0090	0.0063
Moon	109159-12-26 15:49 G	41590924.91	41590925.16	41590925.41	0.0090	0.0002
Earth	109159-12-26 18:42 G	41590925.02	41590925.28	41590925.53	0.0090	0.0005 *
Venus	109160-02-24 13:25 G	41590984.90	41590985.06	41590985.25	0.0090	0.0053
Venus	109160-10-07 02:23 G	41591210.43	41591210.60	41591210.81	0.0090	0.0043
Earth	109160-12-28 06:13 G	41591292.52	41591292.76	41591293.02	0.0090	0.0017
Moon	109160-12-28 07:39 G	41591292.57	41591292.82	41591293.09	0.0090	0.0014 *
Venus	109161-05-20 15:06 G	41591435.95	41591436.13	41591436.35	0.0090	0.0033
Moon	109161-12-30 17:15 G	41591660.02	41591660.22	41591660.46	0.0090	0.0043
Earth	109161-12-30 17:59 G	41591660.03	41591660.25	41591660.49	0.0090	0.0039 *
Venus	109162-01-01 04:03 G	41591661.47	41591661.67	41591661.88	0.0090	0.0022
Venus	109162-08-14 16:47 G	41591886.99	41591887.20	41591887.42	0.0090	0.0012
Moon	109163-01-02 05:15 G	41592027.53	41592027.72	41592027.94	0.0090	0.0057
Earth	109163-01-02 06:13 G	41592027.58	41592027.76	41592027.95	0.0090	0.0061 *

Venus	109163-03-28 05:30 G	41592112.52	41592112.73	41592112.95	0.0090	0.0003
Venus	109163-11-08 18:27 G	41592338.06	41592338.27	41592338.49	0.0090	0.0009
Earth	109164-01-04 17:44 G	41592395.16	41592395.24	41592395.34	0.0090	0.0083
Moon	109164-01-04 19:39 G	41592395.28	41592395.32	41592395.40	0.0090	0.0087 *
Venus	109164-06-21 07:11 G	41592563.59	41592563.80	41592564.01	0.0090	0.0019
Venus	109165-02-01 19:54 G	41592789.13	41592789.33	41592789.54	0.0090	0.0029
Venus	109165-09-15 08:08 G	41593014.67	41593014.84	41593015.06	0.0090	0.0040
Venus	109166-04-28 20:51 G	41593240.21	41593240.37	41593240.57	0.0090	0.0050
Venus	109166-12-10 09:35 G	41593465.76	41593465.90	41593466.08	0.0090	0.0060
Venus	109167-07-23 22:18 G	41593691.31	41593691.43	41593691.58	0.0090	0.0070
Venus	109168-03-05 10:47 G	41593916.88	41593916.95	41593917.07	0.0090	0.0080
Venus	109168-10-16 23:44 G	41594142.49	41594142.49	41594142.51	0.0090	0.0090
Mars	109192-07-12 07:54 G	41602811.55	41602811.83	41602812.11	0.0089	0.0003
Mercury	109226-03-03 10:03 G	41615098.90	41615098.92	41615098.96	0.0088	0.0085
Mercury	109226-05-30 11:30 G	41615186.92	41615186.98	41615187.04	0.0088	0.0078
Mercury	109226-08-26 12:42 G	41615274.96	41615275.03	41615275.12	0.0088	0.0072
Mercury	109226-11-22 13:54 G	41615363.00	41615363.08	41615363.18	0.0088	0.0065
Mercury	109227-02-18 15:20 G	41615451.05	41615451.14	41615451.25	0.0088	0.0058
Mercury	109227-05-17 16:46 G	41615539.10	41615539.20	41615539.31	0.0088	0.0051
Mercury	109227-08-13 17:58 G	41615627.15	41615627.25	41615627.38	0.0088	0.0045
Mercury	109227-11-09 19:25 G	41615715.20	41615715.31	41615715.44	0.0088	0.0038
Mercury	109228-02-05 20:51 G	41615803.25	41615803.37	41615803.50	0.0088	0.0031
Mercury	109228-05-03 22:18 G	41615891.30	41615891.43	41615891.56	0.0088	0.0024
Mercury	109228-07-30 23:30 G	41615979.35	41615979.48	41615979.61	0.0088	0.0018
Mercury	109228-10-27 00:56 G	41616067.41	41616067.54	41616067.67	0.0088	0.0011
Mercury	109229-01-23 02:08 G	41616155.46	41616155.59	41616155.73	0.0088	0.0005
Mercury	109229-04-21 03:34 G	41616243.51	41616243.65	41616243.78	0.0088	0.0003
Mercury	109229-07-18 04:46 G	41616331.57	41616331.70	41616331.84	0.0088	0.0010
Mercury	109229-10-14 06:13 G	41616419.63	41616419.76	41616419.89	0.0088	0.0016
Mercury	109230-01-10 07:25 G	41616507.68	41616507.81	41616507.94	0.0088	0.0023

Mercury	109230-04-08 08:37 G	41616595.74	41616595.86	41616595.99	0.0088	0.0030
Mercury	109230-07-05 10:03 G	41616683.80	41616683.92	41616684.04	0.0088	0.0036
Mercury	109230-10-01 11:15 G	41616771.86	41616771.97	41616772.09	0.0088	0.0043
Mercury	109230-12-28 12:42 G	41616859.92	41616860.03	41616860.14	0.0088	0.0049
Mercury	109231-03-26 13:54 G	41616947.98	41616948.08	41616948.19	0.0088	0.0056
Mercury	109231-06-22 15:06 G	41617036.05	41617036.13	41617036.23	0.0088	0.0063
Mercury	109231-09-18 16:32 G	41617124.11	41617124.19	41617124.27	0.0088	0.0069
Mercury	109231-12-15 17:30 G	41617212.18	41617212.23	41617212.31	0.0088	0.0076
Mercury	109232-03-12 18:56 G	41617300.25	41617300.29	41617300.34	0.0088	0.0082
Earth	109238-06-16 21:34 G	41619587.30	41619587.40	41619587.56	0.0088	0.0077
Moon	109238-06-16 21:06 G	41619587.31	41619587.38	41619587.52	0.0088	0.0081 *
Earth	109239-06-19 08:51 G	41619954.70	41619954.87	41619955.10	0.0088	0.0056
Moon	109239-06-19 11:01 G	41619954.78	41619954.96	41619955.19	0.0088	0.0052 *
Venus	109240-06-02 03:06 G	41620303.56	41620303.63	41620303.75	0.0088	0.0079
Moon	109240-06-20 17:58 G	41620322.02	41620322.25	41620322.50	0.0088	0.0038
Earth	109240-06-20 20:37 G	41620322.14	41620322.36	41620322.61	0.0088	0.0034 *
Venus	109241-01-13 16:18 G	41620529.07	41620529.18	41620529.34	0.0088	0.0069
Earth	109241-06-23 08:08 G	41620689.59	41620689.84	41620690.11	0.0088	0.0014
Moon	109241-06-23 11:44 G	41620689.74	41620689.99	41620690.25	0.0088	0.0009 *
Venus	109241-08-27 05:44 G	41620754.59	41620754.74	41620754.92	0.0088	0.0059
Venus	109242-04-09 19:25 G	41620980.13	41620980.31	41620980.50	0.0088	0.0049
Moon	109242-06-25 16:03 G	41621056.92	41621057.17	41621057.43	0.0088	0.0004
Earth	109242-06-25 19:39 G	41621057.07	41621057.32	41621057.59	0.0088	0.0008 *
Venus	109242-11-21 08:22 G	41621205.66	41621205.85	41621206.06	0.0088	0.0040
Earth	109243-06-28 06:56 G	41621424.56	41621424.79	41621425.05	0.0088	0.0029
Moon	109243-06-28 10:03 G	41621424.69	41621424.92	41621425.18	0.0088	0.0034 *
Venus	109243-07-04 21:34 G	41621431.20	41621431.40	41621431.63	0.0088	0.0030
Venus	109244-02-15 11:01 G	41621656.75	41621656.96	41621657.19	0.0088	0.0020
Moon	109244-06-29 16:03 G	41621791.96	41621792.17	41621792.39	0.0088	0.0046
Earth	109244-06-29 18:13 G	41621792.07	41621792.26	41621792.50	0.0088	0.0051 *

Venus	109244-09-28 00:27 G	41621882.30	41621882.52	41621882.74	0.0088	0.0010
Venus	109245-05-11 13:54 G	41622107.85	41622108.08	41622108.30	0.0088	0.0001
Earth	109245-07-02 05:30 G	41622159.61	41622159.73	41622159.91	0.0088	0.0072
Moon	109245-07-02 06:27 G	41622159.66	41622159.77	41622159.93	0.0088	0.0076 *
Venus	109245-12-23 03:06 G	41622333.41	41622333.63	41622333.85	0.0088	0.0010
Venus	109246-08-05 16:18 G	41622558.96	41622559.18	41622559.40	0.0088	0.0020
Venus	109247-03-19 05:30 G	41622784.53	41622784.73	41622784.95	0.0088	0.0030
Venus	109247-10-30 18:42 G	41623010.09	41623010.28	41623010.49	0.0088	0.0040
Venus	109248-06-12 07:54 G	41623235.66	41623235.83	41623236.03	0.0088	0.0050
Venus	109249-01-23 21:06 G	41623461.23	41623461.38	41623461.56	0.0088	0.0060
Venus	109249-09-06 10:32 G	41623686.82	41623686.94	41623687.09	0.0088	0.0069
Venus	109250-04-19 23:58 G	41623912.42	41623912.50	41623912.61	0.0088	0.0079
Mars	109276-03-23 21:49 G	41633382.09	41633382.41	41633382.77	0.0088	0.0021
Jupiter	109279-10-30 20:22 G	41634697.96	41634698.35	41634698.87	0.0088	0.0054
Mercury	109310-05-02 08:51 G	41645838.84	41645838.87	41645838.90	0.0089	0.0088
Mercury	109310-07-29 11:44 G	41645926.93	41645926.99	41645927.11	0.0089	0.0079
Mercury	109310-10-25 15:20 G	41646015.04	41646015.14	41646015.29	0.0089	0.0069
Mercury	109311-01-21 18:56 G	41646103.17	41646103.29	41646103.46	0.0089	0.0059
Mercury	109311-04-19 22:32 G	41646191.30	41646191.44	41646191.62	0.0089	0.0049
Mercury	109311-07-17 02:08 G	41646279.43	41646279.59	41646279.78	0.0089	0.0039
Mercury	109311-10-13 05:44 G	41646367.57	41646367.74	41646367.94	0.0089	0.0029
Mercury	109312-01-09 09:34 G	41646455.72	41646455.90	41646456.09	0.0089	0.0018
Mercury	109312-04-06 13:10 G	41646543.86	41646544.05	41646544.25	0.0089	0.0008
Mercury	109312-07-03 16:46 G	41646632.01	41646632.20	41646632.40	0.0089	0.0003
Mercury	109312-09-29 20:22 G	41646720.16	41646720.35	41646720.54	0.0089	0.0012
Mercury	109312-12-26 23:58 G	41646808.32	41646808.50	41646808.69	0.0089	0.0023
Mercury	109313-03-25 03:34 G	41646896.48	41646896.65	41646896.83	0.0089	0.0033
Mercury	109313-06-21 07:25 G	41646984.64	41646984.81	41646984.98	0.0089	0.0043
Mercury	109313-09-17 10:32 G	41647072.80	41647072.94	41647073.11	0.0089	0.0054
Mercury	109313-12-14 14:22 G	41647160.97	41647161.10	41647161.24	0.0090	0.0064

Mercury	109314-03-12 17:58 G	41647249.15	41647249.25	41647249.37	0.0090	0.0074
Mercury	109314-06-08 21:49 G	41647337.35	41647337.41	41647337.48	0.0090	0.0084
Earth	109320-12-19 12:27 G	41649722.93	41649723.02	41649723.14	0.0090	0.0082
Moon	109320-12-19 14:51 G	41649723.01	41649723.12	41649723.27	0.0090	0.0077 *
Moon	109321-12-21 23:15 G	41650090.31	41650090.47	41650090.65	0.0090	0.0064
Earth	109321-12-22 00:27 G	41650090.35	41650090.52	41650090.73	0.0090	0.0060 *
Venus	109322-07-22 08:22 G	41650302.81	41650302.85	41650302.93	0.0090	0.0086
Earth	109322-12-24 12:27 G	41650457.81	41650458.02	41650458.27	0.0090	0.0038
Moon	109322-12-24 12:56 G	41650457.82	41650458.04	41650458.31	0.0090	0.0033 *
Venus	109323-03-04 21:06 G	41650528.29	41650528.38	41650528.52	0.0090	0.0076
Venus	109323-10-16 10:03 G	41650753.80	41650753.92	41650754.09	0.0090	0.0066
Earth	109323-12-27 00:42 G	41650825.28	41650825.53	41650825.78	0.0090	0.0015
Moon	109323-12-27 01:54 G	41650825.35	41650825.58	41650825.83	0.0090	0.0020 *
Venus	109324-05-28 23:01 G	41650979.31	41650979.46	41650979.64	0.0090	0.0056
Moon	109324-12-28 10:18 G	41651192.68	41651192.93	41651193.20	0.0090	0.0012
Earth	109324-12-28 12:42 G	41651192.78	41651193.03	41651193.28	0.0090	0.0007 *
Venus	109325-01-09 11:44 G	41651204.82	41651204.99	41651205.19	0.0090	0.0046
Venus	109325-08-23 00:42 G	41651430.33	41651430.53	41651430.73	0.0090	0.0035
Earth	109325-12-31 00:13 G	41651560.28	41651560.51	41651560.76	0.0090	0.0030
Moon	109325-12-31 03:20 G	41651560.41	41651560.64	41651560.89	0.0090	0.0025 *
Venus	109326-04-05 13:25 G	41651655.86	41651656.06	41651656.27	0.0090	0.0025
Venus	109326-11-17 02:08 G	41651881.38	41651881.59	41651881.81	0.0090	0.0015
Moon	109327-01-02 08:22 G	41651927.67	41651927.85	41651928.06	0.0090	0.0057
Earth	109327-01-02 11:58 G	41651927.81	41651928.00	41651928.22	0.0090	0.0052 *
Venus	109327-06-30 15:06 G	41652106.91	41652107.13	41652107.34	0.0090	0.0005
Earth	109328-01-04 23:44 G	41652295.36	41652295.49	41652295.65	0.0090	0.0074
Moon	109328-01-05 03:20 G	41652295.48	41652295.64	41652295.81	0.0090	0.0069 *
Venus	109328-02-11 03:34 G	41652332.44	41652332.65	41652332.87	0.0090	0.0006
Venus	109328-09-23 16:18 G	41652557.98	41652558.18	41652558.40	0.0090	0.0016
Venus	109329-05-07 05:01 G	41652783.51	41652783.71	41652783.92	0.0090	0.0026

Venus	109329-12-18 17:58 G	41653009.05	41653009.25	41653009.44	0.0090	0.0036
Venus	109330-08-01 06:13 G	41653234.59	41653234.76	41653234.96	0.0090	0.0047
Venus	109331-03-14 18:56 G	41653460.14	41653460.29	41653460.47	0.0090	0.0057
Venus	109331-10-26 07:39 G	41653685.70	41653685.82	41653685.98	0.0090	0.0067
Venus	109332-06-07 20:22 G	41653911.26	41653911.35	41653911.48	0.0090	0.0077
Venus	109333-01-19 08:51 G	41654136.84	41654136.87	41654136.95	0.0090	0.0087
Mars	109356-02-26 21:06 G	41662575.15	41662575.38	41662575.65	0.0089	0.0041
Mars	109358-01-20 06:42 G	41663268.57	41663268.78	41663269.02	0.0089	0.0055
Mercury	109390-11-29 09:20 G	41675269.86	41675269.89	41675269.94	0.0088	0.0083
Mercury	109391-02-25 11:01 G	41675357.89	41675357.96	41675358.02	0.0088	0.0076
Mercury	109391-05-24 11:58 G	41675445.93	41675446.00	41675446.09	0.0088	0.0070
Mercury	109391-08-20 13:25 G	41675533.98	41675534.06	41675534.16	0.0088	0.0063
Mercury	109391-11-16 14:51 G	41675622.02	41675622.12	41675622.23	0.0088	0.0056
Mercury	109392-02-12 16:18 G	41675710.07	41675710.18	41675710.29	0.0088	0.0049
Mercury	109392-05-10 17:30 G	41675798.12	41675798.23	41675798.35	0.0088	0.0043
Mercury	109392-08-06 18:56 G	41675886.17	41675886.29	41675886.41	0.0088	0.0036
Mercury	109392-11-02 20:08 G	41675974.22	41675974.34	41675974.47	0.0088	0.0029
Mercury	109393-01-29 21:34 G	41676062.27	41676062.40	41676062.53	0.0088	0.0022
Mercury	109393-04-27 22:46 G	41676150.33	41676150.45	41676150.59	0.0088	0.0016
Mercury	109393-07-25 00:13 G	41676238.38	41676238.51	41676238.65	0.0088	0.0009
Mercury	109393-10-21 01:39 G	41676326.43	41676326.57	41676326.70	0.0088	0.0002
Mercury	109394-01-17 02:51 G	41676414.49	41676414.62	41676414.76	0.0088	0.0005
Mercury	109394-04-15 04:18 G	41676502.55	41676502.68	41676502.81	0.0088	0.0011
Mercury	109394-07-12 05:30 G	41676590.60	41676590.73	41676590.86	0.0088	0.0018
Mercury	109394-10-08 06:42 G	41676678.66	41676678.78	41676678.92	0.0088	0.0025
Mercury	109395-01-04 08:08 G	41676766.72	41676766.84	41676766.97	0.0088	0.0031
Mercury	109395-04-02 09:20 G	41676854.78	41676854.89	41676855.02	0.0088	0.0038
Mercury	109395-06-29 10:32 G	41676942.84	41676942.94	41676943.07	0.0088	0.0045
Mercury	109395-09-25 12:13 G	41677030.90	41677031.01	41677031.11	0.0088	0.0051
Mercury	109395-12-22 13:10 G	41677118.96	41677119.05	41677119.16	0.0088	0.0058



Mercury	109396-03-19 14:22 G	41677207.03	41677207.10	41677207.20	0.0088	0.0065
Mercury	109396-06-15 15:49 G	41677295.09	41677295.16	41677295.25	0.0088	0.0071
Mercury	109396-09-11 17:01 G	41677383.16	41677383.21	41677383.28	0.0088	0.0078
Mercury	109396-12-08 18:27 G	41677471.24	41677471.27	41677471.31	0.0088	0.0084
Moon	109402-06-18 01:54 G	41679487.49	41679487.58	41679487.70	0.0088	0.0080
Earth	109402-06-18 05:15 G	41679487.68	41679487.72	41679487.80	0.0088	0.0085 *
Earth	109403-06-20 16:18 G	41679855.03	41679855.18	41679855.38	0.0088	0.0064
Moon	109403-06-20 19:10 G	41679855.15	41679855.30	41679855.48	0.0088	0.0068 *
Moon	109404-06-22 01:39 G	41680222.36	41680222.57	41680222.82	0.0088	0.0039
Earth	109404-06-22 03:49 G	41680222.45	41680222.66	41680222.90	0.0088	0.0043 *
Venus	109404-09-05 11:58 G	41680297.93	41680298.00	41680298.11	0.0088	0.0081
Venus	109405-04-19 01:25 G	41680523.44	41680523.56	41680523.70	0.0088	0.0071
Earth	109405-06-24 15:06 G	41680589.89	41680590.13	41680590.39	0.0088	0.0022
Moon	109405-06-24 15:20 G	41680589.90	41680590.14	41680590.41	0.0088	0.0027 *
Venus	109405-11-30 14:22 G	41680748.96	41680749.10	41680749.28	0.0088	0.0062
Earth	109406-06-27 02:37 G	41680957.35	41680957.61	41680957.87	0.0088	0.0001
Moon	109406-06-27 03:49 G	41680957.41	41680957.66	41680957.91	0.0088	0.0004 *
Venus	109406-07-14 03:34 G	41680974.49	41680974.65	41680974.85	0.0088	0.0052
Venus	109407-02-24 17:01 G	41681200.03	41681200.21	41681200.42	0.0088	0.0042
Moon	109407-06-29 11:58 G	41681324.75	41681325.00	41681325.28	0.0088	0.0017
Earth	109407-06-29 14:08 G	41681324.84	41681325.09	41681325.34	0.0088	0.0021 *
Venus	109407-10-08 06:27 G	41681425.57	41681425.77	41681425.98	0.0088	0.0032
Venus	109408-05-20 19:54 G	41681651.11	41681651.33	41681651.55	0.0088	0.0022
Earth	109408-07-01 01:25 G	41681692.34	41681692.56	41681692.79	0.0088	0.0042
Moon	109408-07-01 04:18 G	41681692.48	41681692.68	41681692.91	0.0088	0.0047 *
Venus	109409-01-01 09:06 G	41681876.66	41681876.88	41681877.11	0.0088	0.0012
Moon	109409-07-03 09:06 G	41682059.70	41682059.88	41682060.09	0.0088	0.0059
Earth	109409-07-03 12:56 G	41682059.87	41682060.04	41682060.22	0.0088	0.0063 *
Venus	109409-08-14 22:18 G	41682102.21	41682102.43	41682102.66	0.0088	0.0003
Venus	109410-03-28 11:44 G	41682327.77	41682327.99	41682328.22	0.0088	0.0008

Earth	109410-07-06 00:13 G	41682427.45	41682427.51	41682427.59	0.0088	0.0084
Venus	109410-11-09 00:56 G	41682553.32	41682553.54	41682553.77	0.0088	0.0017
Venus	109411-06-22 13:54 G	41682778.88	41682779.08	41682779.31	0.0088	0.0028
Venus	109412-02-03 03:34 G	41683004.45	41683004.65	41683004.85	0.0088	0.0037
Venus	109412-09-15 16:32 G	41683230.01	41683230.19	41683230.39	0.0088	0.0047
Venus	109413-04-29 05:58 G	41683455.59	41683455.75	41683455.93	0.0088	0.0057
Venus	109413-12-10 18:56 G	41683681.17	41683681.29	41683681.46	0.0088	0.0067
Venus	109414-07-24 08:37 G	41683906.76	41683906.86	41683906.98	0.0088	0.0076
Venus	109415-03-06 21:49 G	41684132.38	41684132.41	41684132.47	0.0088	0.0086
Mars	109439-11-06 18:56 G	41693142.97	41693143.29	41693143.64	0.0088	0.0024
Mercury	109475-01-28 05:44 G	41706009.71	41706009.74	41706009.81	0.0089	0.0087
Mercury	109475-04-26 09:20 G	41706097.81	41706097.89	41706098.01	0.0089	0.0077
Mercury	109475-07-23 12:56 G	41706185.93	41706186.04	41706186.18	0.0089	0.0067
Mercury	109475-10-19 16:32 G	41706274.05	41706274.19	41706274.35	0.0089	0.0056
Mercury	109476-01-15 20:08 G	41706362.19	41706362.34	41706362.51	0.0089	0.0046
Mercury	109476-04-12 23:44 G	41706450.32	41706450.49	41706450.67	0.0089	0.0036
Mercury	109476-07-10 03:20 G	41706538.46	41706538.64	41706538.83	0.0089	0.0026
Mercury	109476-10-06 06:56 G	41706626.60	41706626.79	41706626.98	0.0089	0.0016
Mercury	109477-01-02 10:32 G	41706714.75	41706714.94	41706715.13	0.0089	0.0006
Mercury	109477-03-31 14:08 G	41706802.90	41706803.09	41706803.28	0.0089	0.0004
Mercury	109477-06-27 17:30 G	41706891.05	41706891.23	41706891.43	0.0089	0.0015
Mercury	109477-09-23 21:06 G	41706979.21	41706979.38	41706979.58	0.0089	0.0025
Mercury	109477-12-21 00:42 G	41707067.36	41707067.53	41707067.72	0.0090	0.0035
Mercury	109478-03-19 04:18 G	41707155.52	41707155.68	41707155.86	0.0090	0.0045
Mercury	109478-06-15 08:08 G	41707243.69	41707243.84	41707244.00	0.0090	0.0055
Mercury	109478-09-11 11:44 G	41707331.86	41707331.99	41707332.13	0.0090	0.0065
Mercury	109478-12-08 15:06 G	41707420.04	41707420.13	41707420.25	0.0090	0.0076
Mercury	109479-03-06 18:42 G	41707508.24	41707508.28	41707508.35	0.0090	0.0086
Earth	109485-12-22 05:30 G	41709990.59	41709990.73	41709990.91	0.0090	0.0070
Moon	109485-12-22 09:06 G	41709990.72	41709990.88	41709991.06	0.0090	0.0065 *

Venus	109486-10-24 17:15 G	41710297.21	41710297.22	41710297.26	0.0090	0.0089
Moon	109486-12-24 13:54 G	41710357.90	41710358.08	41710358.31	0.0090	0.0053
Earth	109486-12-24 17:30 G	41710358.03	41710358.23	41710358.47	0.0090	0.0048 *
Venus	109487-06-07 05:58 G	41710522.67	41710522.75	41710522.87	0.0090	0.0079
Earth	109487-12-27 05:44 G	41710725.50	41710725.74	41710725.99	0.0090	0.0025
Moon	109487-12-27 08:22 G	41710725.61	41710725.85	41710726.12	0.0090	0.0021 *
Venus	109488-01-18 18:56 G	41710748.16	41710748.29	41710748.44	0.0090	0.0069
Venus	109488-08-31 07:39 G	41710973.67	41710973.82	41710974.00	0.0090	0.0059
Moon	109488-12-28 15:49 G	41711092.91	41711093.16	41711093.41	0.0090	0.0007
Earth	109488-12-28 17:58 G	41711092.99	41711093.25	41711093.51	0.0090	0.0003 *
Venus	109489-04-13 20:22 G	41711199.19	41711199.35	41711199.55	0.0090	0.0049
Venus	109489-11-25 09:06 G	41711424.71	41711424.88	41711425.10	0.0090	0.0039
Earth	109489-12-31 05:44 G	41711460.49	41711460.74	41711460.99	0.0090	0.0020
Moon	109489-12-31 06:13 G	41711460.52	41711460.76	41711461.03	0.0090	0.0025 *
Venus	109490-07-08 22:18 G	41711650.23	41711650.43	41711650.64	0.0090	0.0028
Earth	109491-01-02 17:30 G	41711828.01	41711828.23	41711828.46	0.0090	0.0042
Moon	109491-01-02 18:13 G	41711828.05	41711828.26	41711828.50	0.0090	0.0038 *
Venus	109491-02-19 11:01 G	41711875.75	41711875.96	41711876.17	0.0090	0.0018
Venus	109491-10-02 23:44 G	41712101.28	41712101.49	41712101.71	0.0090	0.0008
Moon	109492-01-05 03:06 G	41712195.49	41712195.63	41712195.83	0.0090	0.0069
Earth	109492-01-05 05:15 G	41712195.55	41712195.72	41712195.91	0.0090	0.0064 *
Venus	109492-05-15 12:42 G	41712326.81	41712327.03	41712327.24	0.0090	0.0003
Venus	109492-12-27 01:10 G	41712552.34	41712552.55	41712552.77	0.0090	0.0013
Earth	109493-01-06 16:32 G	41712563.15	41712563.19	41712563.29	0.0090	0.0087
Moon	109493-01-06 19:39 G	41712563.24	41712563.32	41712563.45	0.0090	0.0082 *
Venus	109493-08-09 13:54 G	41712777.87	41712778.08	41712778.29	0.0090	0.0023
Venus	109494-03-23 02:22 G	41713003.41	41713003.60	41713003.81	0.0090	0.0033
Venus	109494-11-03 15:20 G	41713228.96	41713229.14	41713229.34	0.0090	0.0043
Venus	109495-06-17 04:03 G	41713454.50	41713454.67	41713454.85	0.0090	0.0053
Venus	109496-01-28 16:46 G	41713680.05	41713680.20	41713680.36	0.0090	0.0063

Venus	109496-09-10 05:01 G	41713905.61	41713905.71	41713905.85	0.0090	0.0074
Venus	109497-04-23 18:13 G	41714131.18	41714131.26	41714131.34	0.0090	0.0083
Mars	109519-10-14 09:49 G	41722338.79	41722338.91	41722339.05	0.0089	0.0079
Mars	109521-09-06 17:58 G	41723031.98	41723032.25	41723032.54	0.0089	0.0017
Mercury	109555-08-28 08:22 G	41735440.82	41735440.85	41735440.92	0.0088	0.0082
Mercury	109555-11-24 09:49 G	41735528.86	41735528.91	41735528.99	0.0088	0.0075
Mercury	109556-02-20 11:15 G	41735616.90	41735616.97	41735617.07	0.0088	0.0068
Mercury	109556-05-18 12:42 G	41735704.94	41735705.03	41735705.13	0.0088	0.0061
Mercury	109556-08-14 13:54 G	41735792.99	41735793.08	41735793.20	0.0088	0.0055
Mercury	109556-11-10 15:20 G	41735881.04	41735881.14	41735881.26	0.0088	0.0048
Mercury	109557-02-06 16:46 G	41735969.09	41735969.20	41735969.32	0.0088	0.0041
Mercury	109557-05-05 18:13 G	41736057.14	41736057.26	41736057.38	0.0088	0.0034
Mercury	109557-08-01 19:25 G	41736145.19	41736145.31	41736145.44	0.0088	0.0028
Mercury	109557-10-28 20:51 G	41736233.24	41736233.37	41736233.50	0.0088	0.0021
Mercury	109558-01-24 22:18 G	41736321.29	41736321.43	41736321.56	0.0088	0.0014
Mercury	109558-04-22 23:30 G	41736409.35	41736409.48	41736409.62	0.0088	0.0008
Mercury	109558-07-20 00:56 G	41736497.40	41736497.54	41736497.67	0.0088	0.0001
Mercury	109558-10-16 02:08 G	41736585.46	41736585.59	41736585.73	0.0088	0.0006
Mercury	109559-01-12 03:34 G	41736673.52	41736673.65	41736673.78	0.0088	0.0013
Mercury	109559-04-10 04:46 G	41736761.57	41736761.70	41736761.83	0.0088	0.0019
Mercury	109559-07-07 06:13 G	41736849.63	41736849.76	41736849.89	0.0088	0.0026
Mercury	109559-10-03 07:25 G	41736937.69	41736937.81	41736937.94	0.0088	0.0033
Mercury	109559-12-30 08:37 G	41737025.75	41737025.86	41737025.99	0.0088	0.0040
Mercury	109560-03-27 10:03 G	41737113.81	41737113.92	41737114.03	0.0088	0.0046
Mercury	109560-06-23 11:15 G	41737201.87	41737201.97	41737202.08	0.0088	0.0053
Mercury	109560-09-19 12:42 G	41737289.93	41737290.03	41737290.13	0.0088	0.0059
Mercury	109560-12-16 13:54 G	41737378.00	41737378.08	41737378.17	0.0088	0.0066
Mercury	109561-03-14 14:51 G	41737466.06	41737466.12	41737466.21	0.0088	0.0073
Mercury	109561-06-10 16:18 G	41737554.14	41737554.18	41737554.25	0.0088	0.0079
Mercury	109561-09-06 17:30 G	41737642.22	41737642.23	41737642.27	0.0088	0.0086

Moon	109567-06-20 20:37 G	41739755.20	41739755.36	41739755.53	0.0088	0.0068
Earth	109567-06-20 23:15 G	41739755.35	41739755.47	41739755.64	0.0088	0.0073 *
Earth	109568-06-22 10:18 G	41740122.75	41740122.93	41740123.17	0.0088	0.0052
Moon	109568-06-22 14:08 G	41740122.91	41740123.09	41740123.31	0.0088	0.0057 *
Venus	109568-12-08 20:51 G	41740292.32	41740292.37	41740292.46	0.0088	0.0083
Moon	109569-06-24 18:56 G	41740490.05	41740490.29	41740490.54	0.0088	0.0026
Earth	109569-06-24 21:49 G	41740490.19	41740490.41	41740490.67	0.0088	0.0031 *
Venus	109569-07-22 10:18 G	41740517.81	41740517.93	41740518.06	0.0088	0.0073
Venus	109570-03-04 23:01 G	41740743.33	41740743.46	41740743.64	0.0088	0.0064
Earth	109570-06-27 09:20 G	41740857.64	41740857.89	41740858.15	0.0088	0.0009
Moon	109570-06-27 12:13 G	41740857.75	41740858.01	41740858.28	0.0088	0.0014 *
Venus	109570-10-16 12:27 G	41740968.86	41740969.02	41740969.21	0.0088	0.0054
Venus	109571-05-30 01:54 G	41741194.39	41741194.58	41741194.78	0.0088	0.0044
Moon	109571-06-29 18:42 G	41741225.04	41741225.28	41741225.54	0.0088	0.0017
Earth	109571-06-29 20:51 G	41741225.11	41741225.37	41741225.63	0.0088	0.0012 *
Venus	109572-01-10 14:51 G	41741419.93	41741420.12	41741420.34	0.0088	0.0035
Moon	109572-07-01 08:22 G	41741592.60	41741592.85	41741593.11	0.0088	0.0029
Earth	109572-07-01 07:54 G	41741592.61	41741592.83	41741593.09	0.0088	0.0034 *
Venus	109572-08-23 04:18 G	41741645.47	41741645.68	41741645.90	0.0088	0.0024
Venus	109573-04-05 17:44 G	41741871.02	41741871.24	41741871.46	0.0088	0.0015
Earth	109573-07-03 19:10 G	41741960.12	41741960.30	41741960.52	0.0088	0.0055
Moon	109573-07-03 20:08 G	41741960.17	41741960.34	41741960.54	0.0088	0.0059 *
Venus	109573-11-17 07:10 G	41742096.57	41742096.80	41742097.02	0.0088	0.0005
Venus	109574-06-30 20:22 G	41742322.13	41742322.35	41742322.57	0.0088	0.0005
Moon	109574-07-06 04:46 G	41742327.56	41742327.70	41742327.87	0.0088	0.0071
Earth	109574-07-06 06:42 G	41742327.68	41742327.78	41742327.93	0.0088	0.0076 *
Venus	109575-02-11 09:34 G	41742547.68	41742547.90	41742548.12	0.0088	0.0015
Venus	109575-09-24 22:46 G	41742773.24	41742773.45	41742773.67	0.0088	0.0025
Venus	109576-05-07 11:58 G	41742998.81	41742999.00	41742999.22	0.0088	0.0035
Venus	109576-12-19 01:10 G	41743224.38	41743224.55	41743224.76	0.0088	0.0045

Venus	109577-08-01 14:22 G	41743449.95	41743450.10	41743450.30	0.0088	0.0055
Venus	109578-03-15 04:03 G	41743675.52	41743675.67	41743675.83	0.0088	0.0064
Venus	109578-10-26 17:01 G	41743901.11	41743901.21	41743901.35	0.0088	0.0074
Venus	109579-06-09 06:13 G	41744126.72	41744126.76	41744126.85	0.0088	0.0084
Mars	109603-06-20 15:34 G	41752903.96	41752904.15	41752904.39	0.0088	0.0069
Mars	109605-05-17 08:08 G	41753600.56	41753600.84	41753601.16	0.0088	0.0046
Mercury	109639-10-26 03:06 G	41766180.59	41766180.63	41766180.70	0.0089	0.0085
Mercury	109640-01-22 06:42 G	41766268.69	41766268.78	41766268.89	0.0089	0.0075
Mercury	109640-04-19 10:18 G	41766356.81	41766356.93	41766357.07	0.0089	0.0065
Mercury	109640-07-16 13:54 G	41766444.94	41766445.08	41766445.24	0.0089	0.0055
Mercury	109640-10-12 17:30 G	41766533.07	41766533.23	41766533.40	0.0089	0.0045
Mercury	109641-01-08 21:06 G	41766621.20	41766621.38	41766621.56	0.0089	0.0035
Mercury	109641-04-07 00:42 G	41766709.34	41766709.53	41766709.71	0.0089	0.0025
Mercury	109641-07-04 04:18 G	41766797.49	41766797.68	41766797.87	0.0089	0.0015
Mercury	109641-09-30 07:54 G	41766885.63	41766885.83	41766886.02	0.0089	0.0005
Mercury	109641-12-27 11:30 G	41766973.78	41766973.98	41766974.17	0.0089	0.0006
Mercury	109642-03-25 14:51 G	41767061.94	41767062.12	41767062.31	0.0089	0.0016
Mercury	109642-06-21 18:27 G	41767150.09	41767150.27	41767150.46	0.0089	0.0026
Mercury	109642-09-17 22:03 G	41767238.25	41767238.42	41767238.60	0.0089	0.0036
Mercury	109642-12-15 01:25 G	41767326.41	41767326.56	41767326.74	0.0089	0.0047
Mercury	109643-03-13 05:01 G	41767414.58	41767414.71	41767414.88	0.0089	0.0057
Mercury	109643-06-09 08:37 G	41767502.75	41767502.86	41767503.01	0.0089	0.0067
Mercury	109643-09-05 12:27 G	41767590.93	41767591.02	41767591.13	0.0090	0.0077
Mercury	109643-12-02 16:03 G	41767679.14	41767679.17	41767679.23	0.0090	0.0087
Moon	109649-12-22 08:51 G	41769890.82	41769890.87	41769890.99	0.0090	0.0085
Earth	109649-12-22 10:18 G	41769890.83	41769890.93	41769891.06	0.0090	0.0080 *
Earth	109650-12-24 22:18 G	41770258.26	41770258.43	41770258.65	0.0090	0.0058
Moon	109650-12-25 01:10 G	41770258.36	41770258.55	41770258.76	0.0090	0.0053 *
Venus	109651-09-09 14:37 G	41770517.04	41770517.11	41770517.21	0.0090	0.0082
Moon	109651-12-27 07:39 G	41770625.60	41770625.82	41770626.06	0.0090	0.0040

Earth	109651-12-27 11:01 G	41770625.73	41770625.96	41770626.20	0.0090	0.0035	*
Venus	109652-04-22 03:20 G	41770742.53	41770742.64	41770742.79	0.0090	0.0072	
Venus	109652-12-03 16:18 G	41770968.04	41770968.18	41770968.35	0.0090	0.0062	
Earth	109652-12-28 23:01 G	41770993.21	41770993.46	41770993.71	0.0090	0.0013	
Moon	109652-12-29 02:37 G	41770993.36	41770993.61	41770993.86	0.0090	0.0008	*
Venus	109653-07-17 05:01 G	41771193.55	41771193.71	41771193.90	0.0090	0.0052	
Moon	109653-12-31 07:39 G	41771360.57	41771360.82	41771361.07	0.0090	0.0005	
Earth	109653-12-31 11:01 G	41771360.71	41771360.96	41771361.21	0.0090	0.0010	*
Venus	109654-02-27 17:58 G	41771419.07	41771419.25	41771419.45	0.0090	0.0042	
Venus	109654-10-11 06:42 G	41771644.60	41771644.78	41771645.00	0.0090	0.0032	
Earth	109655-01-02 22:32 G	41771728.21	41771728.44	41771728.69	0.0090	0.0032	
Moon	109655-01-03 01:10 G	41771728.33	41771728.55	41771728.80	0.0090	0.0037	*
Venus	109655-05-24 19:54 G	41771870.12	41771870.33	41771870.54	0.0090	0.0021	
Venus	109656-01-05 08:37 G	41772095.64	41772095.86	41772096.07	0.0090	0.0011	
Moon	109656-01-05 08:22 G	41772095.66	41772095.85	41772096.07	0.0090	0.0050	*
Earth	109656-01-05 10:03 G	41772095.74	41772095.92	41772096.15	0.0090	0.0055	*
Venus	109656-08-17 21:06 G	41772321.17	41772321.38	41772321.60	0.0090	0.0002	
Earth	109657-01-06 21:49 G	41772463.30	41772463.41	41772463.57	0.0090	0.0077	
Moon	109657-01-06 22:18 G	41772463.33	41772463.43	41772463.56	0.0090	0.0081	*
Venus	109657-03-31 09:49 G	41772546.70	41772546.91	41772547.13	0.0090	0.0009	
Venus	109657-11-11 22:32 G	41772772.24	41772772.44	41772772.66	0.0090	0.0020	
Venus	109658-06-25 11:01 G	41772997.77	41772997.96	41772998.18	0.0090	0.0030	
Venus	109659-02-05 23:44 G	41773223.31	41773223.49	41773223.70	0.0090	0.0040	
Venus	109659-09-19 12:27 G	41773448.85	41773449.02	41773449.21	0.0090	0.0050	
Venus	109660-05-02 01:10 G	41773674.40	41773674.55	41773674.72	0.0090	0.0060	
Venus	109660-12-13 13:39 G	41773899.95	41773900.07	41773900.22	0.0090	0.0070	
Venus	109661-07-27 02:22 G	41774125.52	41774125.60	41774125.71	0.0090	0.0080	
Venus	109662-03-09 15:20 G	41774351.14	41774351.14	41774351.14	0.0090	0.0090	
Mars	109685-04-22 06:27 G	41782795.51	41782795.77	41782796.05	0.0089	0.0022	
Mars	109687-03-16 14:08 G	41783488.95	41783489.09	41783489.27	0.0089	0.0073	

Jupiter	109688-11-15 18:42 G	41784098.85	41784099.28	41784099.80	0.0089	0.0037
Mercury	109720-02-27 06:27 G	41795523.76	41795523.77	41795523.80	0.0088	0.0087
Mercury	109720-05-25 07:54 G	41795611.78	41795611.83	41795611.89	0.0088	0.0080
Mercury	109720-08-21 09:20 G	41795699.82	41795699.89	41795699.97	0.0088	0.0073
Mercury	109720-11-17 10:46 G	41795787.86	41795787.95	41795788.04	0.0088	0.0066
Mercury	109721-02-13 11:44 G	41795875.91	41795875.99	41795876.10	0.0088	0.0060
Mercury	109721-05-12 13:10 G	41795963.96	41795964.05	41795964.17	0.0088	0.0053
Mercury	109721-08-08 14:37 G	41796052.00	41796052.11	41796052.23	0.0088	0.0046
Mercury	109721-11-04 16:03 G	41796140.05	41796140.17	41796140.29	0.0088	0.0039
Mercury	109722-01-31 17:15 G	41796228.11	41796228.22	41796228.35	0.0088	0.0033
Mercury	109722-04-29 18:42 G	41796316.16	41796316.28	41796316.41	0.0088	0.0026
Mercury	109722-07-26 20:08 G	41796404.21	41796404.34	41796404.47	0.0088	0.0019
Mercury	109722-10-22 21:20 G	41796492.26	41796492.39	41796492.53	0.0088	0.0013
Mercury	109723-01-18 22:46 G	41796580.32	41796580.45	41796580.59	0.0088	0.0006
Mercury	109723-04-17 00:13 G	41796668.37	41796668.51	41796668.64	0.0088	0.0002
Mercury	109723-07-14 01:25 G	41796756.43	41796756.56	41796756.70	0.0088	0.0008
Mercury	109723-10-10 02:51 G	41796844.49	41796844.62	41796844.75	0.0088	0.0014
Mercury	109724-01-06 04:03 G	41796932.54	41796932.67	41796932.80	0.0088	0.0021
Mercury	109724-04-03 05:15 G	41797020.60	41797020.72	41797020.85	0.0088	0.0028
Mercury	109724-06-30 06:42 G	41797108.66	41797108.78	41797108.90	0.0088	0.0034
Mercury	109724-09-26 07:54 G	41797196.72	41797196.83	41797196.95	0.0088	0.0041
Mercury	109724-12-23 09:06 G	41797284.78	41797284.88	41797285.00	0.0088	0.0048
Mercury	109725-03-21 10:32 G	41797372.84	41797372.94	41797373.05	0.0088	0.0054
Mercury	109725-06-17 11:44 G	41797460.90	41797460.99	41797461.09	0.0088	0.0061
Mercury	109725-09-13 13:10 G	41797548.97	41797549.05	41797549.14	0.0088	0.0067
Mercury	109725-12-10 14:22 G	41797637.04	41797637.10	41797637.18	0.0088	0.0074
Mercury	109726-03-08 15:34 G	41797725.11	41797725.15	41797725.21	0.0088	0.0081
Mercury	109726-06-04 17:01 G	41797813.20	41797813.21	41797813.23	0.0088	0.0087
Earth	109731-06-21 06:13 G	41799655.67	41799655.76	41799655.86	0.0088	0.0081
Moon	109731-06-21 05:30 G	41799655.71	41799655.73	41799655.81	0.0088	0.0086 *



Moon	109732-06-22 15:34 G	41800022.96	41800023.15	41800023.37	0.0088	0.0056
Earth	109732-06-22 17:01 G	41800023.05	41800023.21	41800023.42	0.0088	0.0061 *
Venus	109733-03-13 05:44 G	41800286.69	41800286.74	41800286.79	0.0088	0.0085
Earth	109733-06-25 04:32 G	41800390.46	41800390.69	41800390.93	0.0088	0.0039
Moon	109733-06-25 07:10 G	41800390.59	41800390.80	41800391.03	0.0088	0.0043 *
Venus	109733-10-24 18:27 G	41800512.18	41800512.27	41800512.40	0.0088	0.0076
Venus	109734-06-07 07:39 G	41800737.69	41800737.82	41800737.98	0.0088	0.0066
Moon	109734-06-27 12:27 G	41800757.77	41800758.02	41800758.29	0.0088	0.0014
Earth	109734-06-27 15:49 G	41800757.91	41800758.16	41800758.42	0.0088	0.0018 *
Venus	109735-01-18 20:37 G	41800963.21	41800963.36	41800963.55	0.0088	0.0057
Earth	109735-06-30 03:06 G	41801125.37	41801125.63	41801125.89	0.0088	0.0003
Moon	109735-06-30 06:56 G	41801125.53	41801125.79	41801126.05	0.0088	0.0001 *
Venus	109735-09-01 09:49 G	41801188.74	41801188.91	41801189.12	0.0088	0.0047
Venus	109736-04-13 23:15 G	41801414.28	41801414.47	41801414.68	0.0088	0.0037
Moon	109736-07-01 11:01 G	41801492.73	41801492.96	41801493.21	0.0088	0.0029
Earth	109736-07-01 14:08 G	41801492.85	41801493.09	41801493.35	0.0088	0.0025 *
Venus	109736-11-25 12:42 G	41801639.82	41801640.03	41801640.24	0.0088	0.0027
Earth	109737-07-04 01:25 G	41801860.35	41801860.56	41801860.79	0.0088	0.0046
Moon	109737-07-04 04:03 G	41801860.46	41801860.67	41801860.93	0.0088	0.0042 *
Venus	109737-07-09 01:39 G	41801865.36	41801865.57	41801865.80	0.0088	0.0018
Venus	109738-02-19 15:06 G	41802090.91	41802091.13	41802091.35	0.0088	0.0007
Moon	109738-07-06 11:15 G	41802227.85	41802227.97	41802228.14	0.0088	0.0072
Earth	109738-07-06 12:56 G	41802227.89	41802228.04	41802228.22	0.0088	0.0067 *
Venus	109738-10-03 04:18 G	41802316.46	41802316.68	41802316.91	0.0088	0.0003
Venus	109739-05-16 17:44 G	41802542.02	41802542.24	41802542.47	0.0088	0.0012
Moon	109739-07-09 00:27 G	41802595.46	41802595.52	41802595.60	0.0088	0.0084
Venus	109739-12-28 06:42 G	41802767.58	41802767.78	41802768.01	0.0088	0.0023
Venus	109740-08-09 20:22 G	41802993.14	41802993.35	41802993.56	0.0088	0.0032
Venus	109741-03-23 09:34 G	41803218.71	41803218.90	41803219.10	0.0088	0.0042
Venus	109741-11-03 22:46 G	41803444.28	41803444.45	41803444.64	0.0088	0.0052

Venus	109742-06-17 11:58 G	41803669.86	41803670.00	41803670.18	0.0088	0.0062
Venus	109743-01-29 01:39 G	41803895.44	41803895.57	41803895.70	0.0088	0.0071
Venus	109743-09-11 14:37 G	41804121.04	41804121.11	41804121.21	0.0088	0.0081
Mars	109768-12-29 04:32 G	41813361.33	41813361.69	41813362.04	0.0088	0.0001
Mercury	109804-07-24 00:13 G	41826351.46	41826351.51	41826351.59	0.0089	0.0084
Mercury	109804-10-20 03:49 G	41826439.57	41826439.66	41826439.78	0.0089	0.0074
Mercury	109805-01-16 07:25 G	41826527.68	41826527.81	41826527.95	0.0089	0.0064
Mercury	109805-04-14 11:01 G	41826615.81	41826615.96	41826616.12	0.0089	0.0054
Mercury	109805-07-11 14:37 G	41826703.94	41826704.11	41826704.28	0.0089	0.0044
Mercury	109805-10-07 18:13 G	41826792.08	41826792.26	41826792.44	0.0089	0.0034
Mercury	109806-01-03 21:49 G	41826880.22	41826880.41	41826880.59	0.0089	0.0024
Mercury	109806-04-02 01:10 G	41826968.37	41826968.55	41826968.75	0.0089	0.0014
Mercury	109806-06-29 04:46 G	41827056.51	41827056.70	41827056.90	0.0089	0.0004
Mercury	109806-09-25 08:22 G	41827144.66	41827144.85	41827145.04	0.0089	0.0007
Mercury	109806-12-22 11:58 G	41827232.81	41827233.00	41827233.19	0.0089	0.0017
Mercury	109807-03-20 15:34 G	41827320.97	41827321.15	41827321.34	0.0089	0.0027
Mercury	109807-06-16 19:10 G	41827409.13	41827409.30	41827409.48	0.0089	0.0037
Mercury	109807-09-12 22:32 G	41827497.29	41827497.44	41827497.62	0.0089	0.0047
Mercury	109807-12-10 02:08 G	41827585.46	41827585.59	41827585.75	0.0089	0.0058
Mercury	109808-03-07 05:44 G	41827673.63	41827673.74	41827673.88	0.0089	0.0068
Mercury	109808-06-03 09:20 G	41827761.81	41827761.89	41827762.00	0.0089	0.0078
Mercury	109808-08-30 13:10 G	41827850.03	41827850.05	41827850.09	0.0089	0.0088
Moon	109813-12-23 12:13 G	41829790.96	41829791.01	41829791.11	0.0090	0.0086
Earth	109814-12-26 02:51 G	41830158.47	41830158.62	41830158.80	0.0090	0.0068
Moon	109814-12-26 03:20 G	41830158.52	41830158.64	41830158.83	0.0090	0.0073 *
Venus	109815-12-13 22:46 G	41830511.40	41830511.45	41830511.53	0.0090	0.0085
Earth	109815-12-28 15:06 G	41830525.92	41830526.13	41830526.36	0.0090	0.0046
Moon	109815-12-28 14:51 G	41830525.92	41830526.12	41830526.36	0.0090	0.0042 *
Venus	109816-07-26 11:44 G	41830736.88	41830736.99	41830737.12	0.0090	0.0075
Moon	109816-12-30 01:54 G	41830893.34	41830893.58	41830893.84	0.0090	0.0028

Earth	109816-12-30 03:34 G	41830893.40	41830893.65	41830893.90	0.0090	0.0023	*
Venus	109817-03-09 00:42 G	41830962.39	41830962.53	41830962.68	0.0090	0.0065	
Venus	109817-10-20 13:39 G	41831187.91	41831188.07	41831188.25	0.0090	0.0055	
Earth	109818-01-01 15:34 G	41831260.89	41831261.15	41831261.40	0.0090	0.0001	
Moon	109818-01-01 18:13 G	41831261.01	41831261.26	41831261.51	0.0090	0.0004	*
Venus	109818-06-03 02:22 G	41831413.43	41831413.60	41831413.80	0.0090	0.0045	
Moon	109819-01-04 00:27 G	41831628.27	41831628.52	41831628.78	0.0090	0.0017	
Earth	109819-01-04 03:34 G	41831628.41	41831628.65	41831628.90	0.0090	0.0022	*
Venus	109819-01-14 15:20 G	41831638.95	41831639.14	41831639.35	0.0090	0.0035	
Venus	109819-08-28 04:03 G	41831864.47	41831864.67	41831864.89	0.0090	0.0025	
Earth	109820-01-06 15:34 G	41831995.93	41831996.15	41831996.37	0.0090	0.0044	
Moon	109820-01-06 18:42 G	41831996.09	41831996.28	41831996.52	0.0090	0.0050	*
Venus	109820-04-09 16:46 G	41832090.00	41832090.20	41832090.43	0.0090	0.0015	
Venus	109820-11-21 05:58 G	41832315.53	41832315.75	41832315.96	0.0090	0.0004	
Moon	109821-01-07 23:58 G	41832363.33	41832363.50	41832363.70	0.0090	0.0062	
Earth	109821-01-08 02:51 G	41832363.48	41832363.62	41832363.81	0.0090	0.0067	*
Venus	109821-07-04 18:42 G	41832541.06	41832541.28	41832541.49	0.0090	0.0006	
Earth	109822-01-10 14:37 G	41832731.10	41832731.11	41832731.17	0.0090	0.0089	
Venus	109822-02-15 07:10 G	41832766.59	41832766.80	41832767.02	0.0090	0.0016	
Venus	109822-09-28 19:54 G	41832992.13	41832992.33	41832992.54	0.0090	0.0027	
Venus	109823-05-12 08:22 G	41833217.67	41833217.85	41833218.06	0.0090	0.0037	
Venus	109823-12-23 21:06 G	41833443.21	41833443.38	41833443.58	0.0090	0.0047	
Venus	109824-08-05 09:34 G	41833668.75	41833668.90	41833669.09	0.0090	0.0057	
Venus	109825-03-18 22:18 G	41833894.30	41833894.43	41833894.59	0.0090	0.0067	
Venus	109825-10-30 11:01 G	41834119.87	41834119.96	41834120.09	0.0090	0.0077	
Venus	109826-06-12 23:30 G	41834345.45	41834345.48	41834345.56	0.0090	0.0087	
Mars	109848-12-07 16:46 G	41842559.02	41842559.20	41842559.43	0.0089	0.0062	
Mars	109850-11-01 02:08 G	41843252.35	41843252.59	41843252.87	0.0089	0.0035	
Jupiter	109855-01-19 07:54 G	41844792.36	41844792.83	41844793.35	0.0089	0.0025	
Mercury	109884-11-24 05:30 G	41855694.72	41855694.73	41855694.77	0.0088	0.0086	

Mercury	109885-02-20 06:56 G	41855782.74	41855782.79	41855782.86	0.0088	0.0079
Mercury	109885-05-19 08:22 G	41855870.78	41855870.85	41855870.93	0.0088	0.0072
Mercury	109885-08-15 09:49 G	41855958.82	41855958.91	41855959.00	0.0088	0.0065
Mercury	109885-11-11 11:15 G	41856046.87	41856046.97	41856047.07	0.0088	0.0058
Mercury	109886-02-07 12:27 G	41856134.92	41856135.02	41856135.14	0.0088	0.0052
Mercury	109886-05-06 13:54 G	41856222.97	41856223.08	41856223.20	0.0088	0.0045
Mercury	109886-08-02 15:20 G	41856311.02	41856311.14	41856311.26	0.0088	0.0038
Mercury	109886-10-29 16:46 G	41856399.07	41856399.20	41856399.32	0.0088	0.0031
Mercury	109887-01-25 17:58 G	41856487.12	41856487.25	41856487.38	0.0088	0.0025
Mercury	109887-04-23 19:25 G	41856575.18	41856575.31	41856575.44	0.0088	0.0018
Mercury	109887-07-20 20:37 G	41856663.23	41856663.36	41856663.50	0.0088	0.0011
Mercury	109887-10-16 22:03 G	41856751.28	41856751.42	41856751.55	0.0088	0.0005
Mercury	109888-01-12 23:15 G	41856839.34	41856839.47	41856839.61	0.0088	0.0004
Mercury	109888-04-10 00:42 G	41856927.40	41856927.53	41856927.66	0.0088	0.0009
Mercury	109888-07-07 01:54 G	41857015.45	41857015.58	41857015.72	0.0088	0.0016
Mercury	109888-10-03 03:20 G	41857103.51	41857103.64	41857103.77	0.0088	0.0022
Mercury	109888-12-30 04:32 G	41857191.57	41857191.69	41857191.82	0.0088	0.0029
Mercury	109889-03-28 05:44 G	41857279.63	41857279.74	41857279.87	0.0088	0.0036
Mercury	109889-06-24 07:10 G	41857367.69	41857367.80	41857367.92	0.0088	0.0042
Mercury	109889-09-20 08:22 G	41857455.75	41857455.85	41857455.97	0.0088	0.0049
Mercury	109889-12-17 09:49 G	41857543.81	41857543.91	41857544.01	0.0088	0.0055
Mercury	109890-03-15 11:01 G	41857631.87	41857631.96	41857632.06	0.0088	0.0062
Mercury	109890-06-11 12:13 G	41857719.94	41857720.01	41857720.10	0.0088	0.0069
Mercury	109890-09-07 13:39 G	41857808.01	41857808.07	41857808.14	0.0088	0.0075
Mercury	109890-12-04 14:37 G	41857896.08	41857896.11	41857896.17	0.0088	0.0082
Moon	109895-06-21 15:49 G	41859556.13	41859556.16	41859556.23	0.0088	0.0086
Moon	109896-06-22 21:20 G	41859923.29	41859923.39	41859923.56	0.0088	0.0074
Earth	109896-06-22 23:15 G	41859923.35	41859923.47	41859923.66	0.0088	0.0070 *
Venus	109897-06-15 13:54 G	41860281.08	41860281.08	41860281.12	0.0088	0.0088
Earth	109897-06-25 11:15 G	41860290.75	41860290.97	41860291.19	0.0088	0.0048

Moon	109897-06-25 11:44 G	41860290.78	41860290.99	41860291.25	0.0088	0.0045	*
Venus	109898-01-27 03:06 G	41860506.54	41860506.63	41860506.74	0.0088	0.0078	
Earth	109898-06-27 22:18 G	41860658.19	41860658.43	41860658.69	0.0088	0.0027	
Moon	109898-06-27 22:32 G	41860658.21	41860658.44	41860658.68	0.0088	0.0031	*
Venus	109898-09-09 16:32 G	41860732.05	41860732.19	41860732.33	0.0088	0.0068	
Venus	109899-04-23 05:15 G	41860957.58	41860957.72	41860957.91	0.0088	0.0059	
Moon	109899-06-30 07:39 G	41861025.55	41861025.82	41861026.09	0.0088	0.0002	
Earth	109899-06-30 09:34 G	41861025.65	41861025.90	41861026.16	0.0088	0.0006	*
Venus	109899-12-04 18:42 G	41861183.10	41861183.28	41861183.47	0.0088	0.0049	
Earth	109900-07-02 20:51 G	41861393.12	41861393.37	41861393.63	0.0088	0.0016	
Moon	109900-07-02 23:30 G	41861393.23	41861393.48	41861393.74	0.0088	0.0012	*
Venus	109900-07-18 07:39 G	41861408.63	41861408.82	41861409.03	0.0088	0.0040	
Venus	109901-02-28 20:51 G	41861634.17	41861634.37	41861634.59	0.0088	0.0030	
Moon	109901-07-05 04:46 G	41861760.47	41861760.70	41861760.93	0.0088	0.0041	
Earth	109901-07-05 08:08 G	41861760.61	41861760.84	41861761.08	0.0088	0.0037	*
Venus	109901-10-12 10:18 G	41861859.71	41861859.93	41861860.15	0.0088	0.0020	
Venus	109902-05-25 23:30 G	41862085.26	41862085.48	41862085.71	0.0088	0.0010	
Earth	109902-07-07 18:56 G	41862128.12	41862128.29	41862128.51	0.0088	0.0059	
Moon	109902-07-07 22:32 G	41862128.26	41862128.44	41862128.67	0.0088	0.0055	*
Venus	109903-01-06 12:42 G	41862310.81	41862311.03	41862311.26	0.0088	0.0001	
Moon	109903-07-10 03:06 G	41862495.59	41862495.63	41862495.74	0.0088	0.0084	
Earth	109903-07-10 06:13 G	41862495.68	41862495.76	41862495.90	0.0088	0.0080	*
Venus	109903-08-20 01:54 G	41862536.36	41862536.58	41862536.81	0.0088	0.0010	
Venus	109904-04-01 15:06 G	41862761.92	41862762.13	41862762.36	0.0088	0.0020	
Venus	109904-11-13 04:18 G	41862987.48	41862987.68	41862987.91	0.0088	0.0030	
Venus	109905-06-26 17:30 G	41863213.05	41863213.23	41863213.45	0.0088	0.0040	
Venus	109906-02-07 07:10 G	41863438.62	41863438.80	41863438.99	0.0088	0.0049	
Venus	109906-09-20 20:08 G	41863664.19	41863664.34	41863664.52	0.0088	0.0059	
Venus	109907-05-04 09:34 G	41863889.78	41863889.90	41863890.06	0.0088	0.0069	
Venus	109907-12-15 23:15 G	41864115.38	41864115.47	41864115.57	0.0088	0.0078	

Mars	109932-08-13 00:56 G	41873122.27	41873122.54	41873122.87	0.0088	0.0045
Mars	109934-07-10 17:01 G	41873819.03	41873819.21	41873819.45	0.0088	0.0071
Mercury	109969-04-20 21:34 G	41886522.34	41886522.40	41886522.49	0.0089	0.0082
Mercury	109969-07-18 01:25 G	41886610.45	41886610.56	41886610.67	0.0089	0.0072
Mercury	109969-10-14 04:18 G	41886698.57	41886698.68	41886698.84	0.0089	0.0063
Mercury	109970-01-10 07:54 G	41886786.70	41886786.83	41886787.00	0.0089	0.0053
Mercury	109970-04-08 11:30 G	41886874.83	41886874.98	41886875.17	0.0089	0.0043
Mercury	109970-07-05 15:06 G	41886962.97	41886963.13	41886963.32	0.0089	0.0033
Mercury	109970-10-01 18:42 G	41887051.11	41887051.28	41887051.48	0.0089	0.0023
Mercury	109970-12-28 22:32 G	41887139.25	41887139.44	41887139.63	0.0089	0.0012
Mercury	109971-03-27 02:08 G	41887227.40	41887227.59	41887227.78	0.0089	0.0002
Mercury	109971-06-23 05:44 G	41887315.55	41887315.74	41887315.93	0.0089	0.0008
Mercury	109971-09-19 09:06 G	41887403.70	41887403.88	41887404.08	0.0089	0.0018
Mercury	109971-12-16 12:42 G	41887491.86	41887492.03	41887492.22	0.0089	0.0028
Mercury	109972-03-13 16:18 G	41887580.01	41887580.18	41887580.36	0.0089	0.0038
Mercury	109972-06-09 19:54 G	41887668.18	41887668.33	41887668.50	0.0089	0.0049
Mercury	109972-09-05 23:30 G	41887756.34	41887756.48	41887756.63	0.0089	0.0059
Mercury	109972-12-03 03:06 G	41887844.52	41887844.63	41887844.76	0.0089	0.0069
Mercury	109973-03-01 06:27 G	41887932.70	41887932.77	41887932.88	0.0089	0.0080
Mercury	109973-05-28 10:18 G	41888020.93	41888020.93	41888020.95	0.0089	0.0089
Moon	109978-12-26 04:46 G	41890058.57	41890058.70	41890058.85	0.0090	0.0074
Earth	109978-12-26 07:25 G	41890058.72	41890058.81	41890058.96	0.0090	0.0079 *
Earth	109979-12-28 19:54 G	41890426.14	41890426.33	41890426.54	0.0090	0.0056
Moon	109979-12-28 22:46 G	41890426.28	41890426.45	41890426.66	0.0090	0.0061 *
Venus	109980-03-17 06:42 G	41890505.77	41890505.78	41890505.84	0.0090	0.0089
Venus	109980-10-28 19:39 G	41890731.25	41890731.32	41890731.45	0.0090	0.0079
Moon	109980-12-30 06:13 G	41890793.54	41890793.76	41890794.01	0.0090	0.0030
Earth	109980-12-30 07:54 G	41890793.60	41890793.83	41890794.07	0.0090	0.0034 *
Venus	109981-06-11 08:37 G	41890956.75	41890956.86	41890957.02	0.0090	0.0069
Earth	109982-01-01 20:08 G	41891161.09	41891161.34	41891161.59	0.0090	0.0011

Moon	109982-01-01 20:08 G	41891161.09	41891161.34	41891161.62	0.0090	0.0016	*
Venus	109982-01-22 22:03 G	41891182.26	41891182.42	41891182.58	0.0090	0.0058	
Venus	109982-09-05 10:46 G	41891407.77	41891407.95	41891408.14	0.0090	0.0048	
Earth	109983-01-04 07:54 G	41891528.59	41891528.83	41891529.10	0.0090	0.0012	
Moon	109983-01-04 08:37 G	41891528.62	41891528.86	41891529.11	0.0090	0.0016	*
Venus	109983-04-18 23:30 G	41891633.30	41891633.48	41891633.69	0.0090	0.0038	
Venus	109983-11-30 12:27 G	41891858.82	41891859.02	41891859.23	0.0090	0.0028	
Moon	109984-01-06 17:30 G	41891896.00	41891896.23	41891896.49	0.0090	0.0030	
Earth	109984-01-06 20:08 G	41891896.11	41891896.34	41891896.58	0.0090	0.0034	*
Venus	109984-07-13 01:10 G	41892084.35	41892084.55	41892084.77	0.0090	0.0018	
Earth	109985-01-08 07:25 G	41892263.64	41892263.81	41892264.04	0.0090	0.0057	
Moon	109985-01-08 10:32 G	41892263.78	41892263.94	41892264.14	0.0090	0.0061	*
Venus	109985-02-23 14:08 G	41892309.88	41892310.09	41892310.31	0.0090	0.0008	
Venus	109985-10-07 03:06 G	41892535.41	41892535.63	41892535.85	0.0090	0.0003	
Moon	109986-01-10 16:03 G	41892631.05	41892631.17	41892631.33	0.0090	0.0074	
Earth	109986-01-10 19:25 G	41892631.22	41892631.31	41892631.45	0.0090	0.0079	*
Venus	109986-05-20 15:49 G	41892760.95	41892761.16	41892761.38	0.0090	0.0013	
Venus	109987-01-01 04:32 G	41892986.48	41892986.69	41892986.90	0.0090	0.0023	
Venus	109987-08-14 17:01 G	41893212.02	41893212.21	41893212.42	0.0090	0.0033	
Venus	109988-03-27 05:44 G	41893437.56	41893437.74	41893437.93	0.0090	0.0043	
Venus	109988-11-07 18:42 G	41893663.11	41893663.28	41893663.45	0.0090	0.0053	
Venus	109989-06-21 07:10 G	41893888.66	41893888.80	41893888.96	0.0090	0.0063	
Venus	109990-02-01 19:39 G	41894114.21	41894114.32	41894114.46	0.0090	0.0073	
Venus	109990-09-15 08:22 G	41894339.78	41894339.85	41894339.94	0.0090	0.0083	

# 111TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 111th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	110014-06-17 12:42 G		41903015.75	41903016.03	41903016.31	0.0089	0.0005	
Jupiter	110021-03-22 04:18 G		41905485.56	41905485.68	41905485.80	0.0089	0.0087	
Mercury	110049-08-22 04:46 G		41915865.67	41915865.70	41915865.74	0.0088	0.0084	
Mercury	110049-11-18 06:13 G		41915953.70	41915953.76	41915953.83	0.0088	0.0077	
Mercury	110050-02-14 07:25 G		41916041.74	41916041.81	41916041.90	0.0088	0.0071	
Mercury	110050-05-13 08:51 G		41916129.79	41916129.87	41916129.97	0.0088	0.0064	
Mercury	110050-08-09 10:18 G		41916217.83	41916217.93	41916218.04	0.0088	0.0057	
Mercury	110050-11-05 11:44 G		41916305.88	41916305.99	41916306.10	0.0088	0.0050	
Mercury	110051-02-01 13:10 G		41916393.93	41916394.05	41916394.17	0.0088	0.0043	
Mercury	110051-04-30 14:22 G		41916481.98	41916482.10	41916482.23	0.0088	0.0037	
Mercury	110051-07-27 15:49 G		41916570.03	41916570.16	41916570.29	0.0088	0.0030	
Mercury	110051-10-23 17:15 G		41916658.09	41916658.22	41916658.35	0.0088	0.0023	
Mercury	110052-01-19 18:27 G		41916746.14	41916746.27	41916746.41	0.0088	0.0017	
Mercury	110052-04-16 19:54 G		41916834.20	41916834.33	41916834.46	0.0088	0.0010	
Mercury	110052-07-13 21:06 G		41916922.25	41916922.38	41916922.52	0.0088	0.0004	
Mercury	110052-10-09 22:32 G		41917010.31	41917010.44	41917010.57	0.0088	0.0004	
Mercury	110053-01-05 23:44 G		41917098.36	41917098.49	41917098.63	0.0088	0.0011	
Mercury	110053-04-04 01:10 G		41917186.42	41917186.55	41917186.68	0.0088	0.0017	
Mercury	110053-07-01 02:22 G		41917274.48	41917274.60	41917274.73	0.0088	0.0024	
Mercury	110053-09-27 03:49 G		41917362.53	41917362.66	41917362.78	0.0088	0.0030	
Mercury	110053-12-24 05:01 G		41917450.59	41917450.71	41917450.83	0.0088	0.0037	
Mercury	110054-03-22 06:27 G		41917538.65	41917538.77	41917538.88	0.0088	0.0043	
Mercury	110054-06-18 07:39 G		41917626.71	41917626.82	41917626.93	0.0088	0.0050	
Mercury	110054-09-14 08:51 G		41917714.78	41917714.87	41917714.98	0.0088	0.0057	



Mercury	110054-12-11 10:18 G	41917802.84	41917802.93	41917803.02	0.0088	0.0063
Mercury	110055-03-09 11:15 G	41917890.90	41917890.97	41917891.06	0.0088	0.0070
Mercury	110055-06-05 12:56 G	41917978.97	41917979.04	41917979.10	0.0088	0.0076
Mercury	110055-09-01 13:54 G	41918067.05	41918067.08	41918067.13	0.0088	0.0083
Earth	110060-06-23 05:15 G	41919823.63	41919823.72	41919823.85	0.0088	0.0079
Moon	110060-06-23 09:06 G	41919823.76	41919823.88	41919824.02	0.0088	0.0076 *
Moon	110061-06-25 13:25 G	41920190.90	41920191.06	41920191.27	0.0088	0.0061
Earth	110061-06-25 16:32 G	41920191.02	41920191.19	41920191.41	0.0088	0.0058 *
Venus	110062-05-01 11:01 G	41920500.90	41920500.96	41920501.07	0.0088	0.0081
Earth	110062-06-28 04:18 G	41920558.45	41920558.68	41920558.92	0.0088	0.0036
Moon	110062-06-28 06:42 G	41920558.54	41920558.78	41920559.04	0.0088	0.0033 *
Venus	110062-12-13 00:27 G	41920726.40	41920726.52	41920726.66	0.0088	0.0071
Moon	110063-06-30 15:06 G	41920925.88	41920926.13	41920926.37	0.0088	0.0017
Earth	110063-06-30 15:34 G	41920925.90	41920926.15	41920926.41	0.0088	0.0015 *
Venus	110063-07-26 13:39 G	41920951.92	41920952.07	41920952.24	0.0088	0.0061
Venus	110064-03-08 02:37 G	41921177.45	41921177.61	41921177.81	0.0088	0.0052
Moon	110064-07-02 02:37 G	41921293.35	41921293.61	41921293.89	0.0088	0.0010
Earth	110064-07-02 02:51 G	41921293.37	41921293.62	41921293.89	0.0088	0.0007 *
Venus	110064-10-19 16:03 G	41921402.98	41921403.17	41921403.37	0.0088	0.0042
Venus	110065-06-02 05:15 G	41921628.52	41921628.72	41921628.94	0.0088	0.0032
Earth	110065-07-04 14:22 G	41921660.85	41921661.10	41921661.35	0.0088	0.0028
Moon	110065-07-04 15:34 G	41921660.92	41921661.15	41921661.41	0.0088	0.0026 *
Venus	110066-01-13 18:13 G	41921854.06	41921854.26	41921854.49	0.0088	0.0023
Moon	110066-07-06 22:32 G	41922028.23	41922028.44	41922028.66	0.0088	0.0051
Earth	110066-07-07 01:10 G	41922028.36	41922028.55	41922028.79	0.0088	0.0050 *
Venus	110066-08-27 07:39 G	41922079.60	41922079.82	41922080.05	0.0088	0.0013
Venus	110067-04-09 21:06 G	41922305.15	41922305.38	41922305.60	0.0088	0.0003
Earth	110067-07-09 12:27 G	41922395.89	41922396.02	41922396.19	0.0088	0.0071
Moon	110067-07-09 15:49 G	41922396.01	41922396.16	41922396.34	0.0088	0.0068 *
Venus	110067-11-21 10:03 G	41922530.71	41922530.92	41922531.15	0.0088	0.0008

Venus	110068-07-03 23:30 G	41922756.26	41922756.48	41922756.70	0.0088	0.0017
Venus	110069-02-14 12:27 G	41922981.82	41922982.02	41922982.24	0.0088	0.0027
Venus	110069-09-28 01:39 G	41923207.38	41923207.57	41923207.79	0.0088	0.0037
Venus	110070-05-11 15:06 G	41923432.95	41923433.13	41923433.33	0.0088	0.0047
Venus	110070-12-23 04:46 G	41923658.53	41923658.70	41923658.87	0.0088	0.0056
Venus	110071-08-05 17:44 G	41923884.11	41923884.24	41923884.40	0.0088	0.0066
Venus	110072-03-18 06:56 G	41924109.70	41924109.79	41924109.92	0.0088	0.0076
Venus	110072-10-29 20:51 G	41924335.32	41924335.37	41924335.42	0.0088	0.0085
Mars	110098-02-20 13:39 G	41933579.75	41933580.07	41933580.43	0.0088	0.0025
Mercury	110134-01-16 18:42 G	41946693.22	41946693.28	41946693.38	0.0089	0.0080
Mercury	110134-04-14 22:18 G	41946781.33	41946781.43	41946781.56	0.0089	0.0071
Mercury	110134-07-12 01:54 G	41946869.45	41946869.58	41946869.73	0.0089	0.0061
Mercury	110134-10-08 05:30 G	41946957.58	41946957.73	41946957.89	0.0089	0.0051
Mercury	110135-01-04 09:06 G	41947045.71	41947045.88	41947046.05	0.0089	0.0041
Mercury	110135-04-02 12:42 G	41947133.85	41947134.03	41947134.21	0.0089	0.0031
Mercury	110135-06-29 16:18 G	41947221.99	41947222.18	41947222.36	0.0089	0.0021
Mercury	110135-09-25 19:39 G	41947310.14	41947310.32	41947310.52	0.0089	0.0011
Mercury	110135-12-22 23:15 G	41947398.28	41947398.47	41947398.67	0.0089	0.0002
Mercury	110136-03-20 02:51 G	41947486.43	41947486.62	41947486.81	0.0089	0.0009
Mercury	110136-06-16 06:27 G	41947574.58	41947574.77	41947574.96	0.0089	0.0019
Mercury	110136-09-12 10:03 G	41947662.74	41947662.92	41947663.10	0.0089	0.0030
Mercury	110136-12-09 13:39 G	41947750.90	41947751.07	41947751.24	0.0089	0.0040
Mercury	110137-03-07 17:15 G	41947839.06	41947839.22	41947839.38	0.0089	0.0050
Mercury	110137-06-03 20:22 G	41947927.23	41947927.35	41947927.51	0.0089	0.0061
Mercury	110137-08-30 23:58 G	41948015.41	41948015.50	41948015.64	0.0089	0.0071
Mercury	110137-11-27 03:49 G	41948103.59	41948103.66	41948103.76	0.0089	0.0081
Earth	110142-12-26 12:56 G	41949959.03	41949959.04	41949959.10	0.0090	0.0089
Moon	110143-12-28 21:34 G	41950326.23	41950326.40	41950326.59	0.0090	0.0063
Earth	110143-12-29 00:56 G	41950326.39	41950326.54	41950326.74	0.0090	0.0067 *
Earth	110144-12-30 13:10 G	41950693.84	41950694.05	41950694.28	0.0090	0.0044

Moon	110144-12-30 16:18 G	41950693.97	41950694.18	41950694.42	0.0090	0.0047	*
Venus	110145-01-31 05:01 G	41950725.62	41950725.71	41950725.80	0.0090	0.0081	
Venus	110145-09-13 17:44 G	41950951.12	41950951.24	41950951.38	0.0090	0.0071	
Moon	110146-01-01 22:46 G	41951061.21	41951061.45	41951061.70	0.0090	0.0018	
Earth	110146-01-02 01:10 G	41951061.31	41951061.55	41951061.81	0.0090	0.0022	*
Venus	110146-04-27 06:42 G	41951176.62	41951176.78	41951176.94	0.0090	0.0061	
Venus	110146-12-08 19:25 G	41951402.14	41951402.31	41951402.50	0.0090	0.0051	
Earth	110147-01-04 13:25 G	41951428.80	41951429.06	41951429.31	0.0090	0.0001	
Moon	110147-01-04 15:06 G	41951428.87	41951429.13	41951429.40	0.0090	0.0002	*
Venus	110147-07-22 08:08 G	41951627.66	41951627.84	41951628.04	0.0090	0.0041	
Earth	110148-01-07 01:10 G	41951796.31	41951796.55	41951796.81	0.0090	0.0024	
Moon	110148-01-07 01:10 G	41951796.33	41951796.55	41951796.80	0.0090	0.0027	*
Venus	110148-03-03 21:06 G	41951853.18	41951853.38	41951853.59	0.0090	0.0031	
Venus	110148-10-15 10:03 G	41952078.72	41952078.92	41952079.14	0.0090	0.0021	
Moon	110149-01-08 11:44 G	41952163.78	41952163.99	41952164.24	0.0090	0.0044	
Earth	110149-01-08 12:42 G	41952163.84	41952164.03	41952164.27	0.0090	0.0047	*
Venus	110149-05-28 23:01 G	41952304.25	41952304.46	41952304.68	0.0090	0.0010	
Venus	110150-01-09 11:44 G	41952529.78	41952529.99	41952530.21	0.0090	0.0001	
Earth	110150-01-11 00:42 G	41952531.39	41952531.53	41952531.72	0.0090	0.0069	
Moon	110150-01-11 03:20 G	41952531.50	41952531.64	41952531.79	0.0090	0.0072	*
Venus	110150-08-23 00:27 G	41952755.31	41952755.52	41952755.74	0.0090	0.0010	
Moon	110151-01-13 09:06 G	41952898.87	41952898.88	41952898.96	0.0090	0.0089	
Venus	110151-04-05 13:10 G	41952980.85	41952981.05	41952981.27	0.0090	0.0020	
Venus	110151-11-17 02:08 G	41953206.39	41953206.59	41953206.80	0.0090	0.0030	
Venus	110152-06-29 14:51 G	41953431.93	41953432.12	41953432.32	0.0090	0.0040	
Venus	110153-02-10 03:20 G	41953657.47	41953657.64	41953657.83	0.0090	0.0050	
Venus	110153-09-23 16:03 G	41953883.02	41953883.17	41953883.34	0.0090	0.0060	
Venus	110154-05-07 04:46 G	41954108.57	41954108.70	41954108.84	0.0090	0.0070	
Venus	110154-12-18 17:15 G	41954334.14	41954334.22	41954334.33	0.0090	0.0080	
Mars	110178-01-31 23:30 G	41962779.26	41962779.48	41962779.75	0.0089	0.0045	

Mars	110179-12-26 08:22 G	41963472.65	41963472.85	41963473.11	0.0089	0.0053
Mercury	110214-05-21 03:49 G	41976036.63	41976036.66	41976036.71	0.0088	0.0083
Mercury	110214-08-17 05:15 G	41976124.66	41976124.72	41976124.79	0.0088	0.0076
Mercury	110214-11-13 06:42 G	41976212.70	41976212.78	41976212.87	0.0088	0.0069
Mercury	110215-02-09 07:54 G	41976300.75	41976300.83	41976300.94	0.0088	0.0063
Mercury	110215-05-08 09:20 G	41976388.80	41976388.89	41976389.00	0.0088	0.0056
Mercury	110215-08-04 10:46 G	41976476.85	41976476.95	41976477.07	0.0088	0.0049
Mercury	110215-10-31 12:13 G	41976564.90	41976565.01	41976565.13	0.0088	0.0042
Mercury	110216-01-27 13:39 G	41976652.95	41976653.07	41976653.19	0.0088	0.0035
Mercury	110216-04-24 14:51 G	41976741.00	41976741.12	41976741.25	0.0088	0.0029
Mercury	110216-07-21 16:18 G	41976829.05	41976829.18	41976829.31	0.0088	0.0022
Mercury	110216-10-17 17:44 G	41976917.11	41976917.24	41976917.37	0.0088	0.0015
Mercury	110217-01-13 18:56 G	41977005.16	41977005.29	41977005.43	0.0088	0.0009
Mercury	110217-04-11 20:22 G	41977093.22	41977093.35	41977093.49	0.0088	0.0002
Mercury	110217-07-08 21:34 G	41977181.27	41977181.40	41977181.54	0.0088	0.0006
Mercury	110217-10-04 23:01 G	41977269.33	41977269.46	41977269.60	0.0088	0.0012
Mercury	110218-01-01 00:27 G	41977357.39	41977357.52	41977357.65	0.0088	0.0018
Mercury	110218-03-30 01:39 G	41977445.44	41977445.57	41977445.70	0.0088	0.0025
Mercury	110218-06-26 02:51 G	41977533.50	41977533.62	41977533.75	0.0088	0.0032
Mercury	110218-09-22 04:18 G	41977621.56	41977621.68	41977621.80	0.0088	0.0038
Mercury	110218-12-19 05:30 G	41977709.62	41977709.73	41977709.85	0.0088	0.0045
Mercury	110219-03-17 06:56 G	41977797.68	41977797.79	41977797.90	0.0088	0.0051
Mercury	110219-06-13 08:08 G	41977885.74	41977885.84	41977885.94	0.0088	0.0058
Mercury	110219-09-09 09:20 G	41977973.81	41977973.89	41977973.99	0.0088	0.0065
Mercury	110219-12-06 10:46 G	41978061.88	41978061.95	41978062.03	0.0088	0.0071
Mercury	110220-03-03 11:58 G	41978149.95	41978150.00	41978150.07	0.0088	0.0078
Mercury	110220-05-30 13:25 G	41978238.03	41978238.06	41978238.10	0.0088	0.0084
Moon	110224-06-24 08:22 G	41979723.83	41979723.85	41979723.88	0.0088	0.0087
Earth	110225-06-26 22:46 G	41980091.30	41980091.45	41980091.63	0.0088	0.0067
Moon	110225-06-27 02:37 G	41980091.45	41980091.61	41980091.78	0.0088	0.0066 *

Moon	110226-06-29 06:42 G	41980458.58	41980458.78	41980459.02	0.0088	0.0046
Earth	110226-06-29 10:03 G	41980458.72	41980458.92	41980459.17	0.0088	0.0046 *
Venus	110226-08-04 19:25 G	41980495.26	41980495.31	41980495.40	0.0088	0.0083
Venus	110227-03-18 08:51 G	41980720.76	41980720.87	41980721.00	0.0088	0.0073
Earth	110227-07-01 21:49 G	41980826.16	41980826.41	41980826.66	0.0088	0.0024
Moon	110227-07-02 00:27 G	41980826.26	41980826.52	41980826.78	0.0088	0.0024 *
Venus	110227-10-29 21:49 G	41980946.28	41980946.41	41980946.58	0.0088	0.0064
Venus	110228-06-11 11:01 G	41981171.80	41981171.96	41981172.15	0.0088	0.0054
Moon	110228-07-03 07:25 G	41981193.56	41981193.81	41981194.07	0.0088	0.0003
Earth	110228-07-03 09:20 G	41981193.63	41981193.89	41981194.15	0.0088	0.0002 *
Venus	110229-01-23 00:27 G	41981397.33	41981397.52	41981397.72	0.0088	0.0044
Earth	110229-07-05 20:37 G	41981561.11	41981561.36	41981561.62	0.0088	0.0019
Moon	110229-07-05 20:51 G	41981561.11	41981561.37	41981561.64	0.0088	0.0019 *
Venus	110229-09-05 13:25 G	41981622.87	41981623.06	41981623.28	0.0088	0.0035
Venus	110230-04-19 02:51 G	41981848.41	41981848.62	41981848.84	0.0088	0.0025
Earth	110230-07-08 07:25 G	41981928.60	41981928.81	41981929.06	0.0088	0.0041
Moon	110230-07-08 09:06 G	41981928.66	41981928.88	41981929.11	0.0088	0.0041 *
Venus	110230-11-30 16:03 G	41982073.96	41982074.17	41982074.40	0.0088	0.0015
Moon	110231-07-10 16:32 G	41982296.02	41982296.19	41982296.40	0.0088	0.0062
Earth	110231-07-10 18:42 G	41982296.12	41982296.28	41982296.49	0.0088	0.0062 *
Venus	110231-07-14 05:15 G	41982299.50	41982299.72	41982299.95	0.0088	0.0005
Venus	110232-02-24 18:27 G	41982525.05	41982525.27	41982525.49	0.0088	0.0005
Earth	110232-07-12 06:13 G	41982663.69	41982663.76	41982663.86	0.0088	0.0083
Moon	110232-07-12 09:49 G	41982663.84	41982663.91	41982663.99	0.0088	0.0083 *
Venus	110232-10-07 07:25 G	41982750.60	41982750.81	41982751.04	0.0088	0.0015
Venus	110233-05-20 21:06 G	41982976.16	41982976.38	41982976.59	0.0088	0.0024
Venus	110234-01-01 10:03 G	41983201.72	41983201.92	41983202.13	0.0088	0.0034
Venus	110234-08-14 23:01 G	41983427.28	41983427.46	41983427.67	0.0088	0.0044
Venus	110235-03-28 12:13 G	41983652.85	41983653.01	41983653.21	0.0088	0.0054
Venus	110235-11-09 01:54 G	41983878.43	41983878.58	41983878.74	0.0088	0.0063

Venus	110236-06-21 15:06 G	41984104.02	41984104.13	41984104.27	0.0088	0.0073
Venus	110237-02-02 04:18 G	41984329.63	41984329.68	41984329.77	0.0088	0.0083
Mars	110261-10-05 12:27 G	41993340.69	41993341.02	41993341.38	0.0088	0.0020
Mercury	110298-07-18 12:56 G	42006776.02	42006776.04	42006776.09	0.0089	0.0088
Mercury	110298-10-14 16:32 G	42006864.11	42006864.19	42006864.29	0.0089	0.0078
Mercury	110299-01-10 19:39 G	42006952.22	42006952.32	42006952.47	0.0089	0.0069
Mercury	110299-04-08 23:15 G	42007040.35	42007040.47	42007040.63	0.0089	0.0059
Mercury	110299-07-06 02:51 G	42007128.47	42007128.62	42007128.79	0.0089	0.0049
Mercury	110299-10-02 06:27 G	42007216.61	42007216.77	42007216.95	0.0089	0.0039
Mercury	110299-12-29 10:03 G	42007304.75	42007304.92	42007305.11	0.0089	0.0029
Mercury	110300-03-27 13:39 G	42007392.89	42007393.07	42007393.26	0.0089	0.0019
Mercury	110300-06-23 17:15 G	42007481.03	42007481.22	42007481.41	0.0089	0.0009
Mercury	110300-09-19 20:51 G	42007569.18	42007569.37	42007569.56	0.0089	0.0001
Mercury	110300-12-17 00:27 G	42007657.33	42007657.52	42007657.71	0.0089	0.0011
Mercury	110301-03-15 03:49 G	42007745.48	42007745.66	42007745.85	0.0089	0.0022
Mercury	110301-06-11 07:25 G	42007833.64	42007833.81	42007833.99	0.0089	0.0032
Mercury	110301-09-07 11:01 G	42007921.79	42007921.96	42007922.13	0.0089	0.0042
Mercury	110301-12-04 14:37 G	42008009.96	42008010.11	42008010.27	0.0089	0.0052
Mercury	110302-03-02 18:13 G	42008098.13	42008098.26	42008098.40	0.0089	0.0062
Mercury	110302-05-29 21:20 G	42008186.30	42008186.39	42008186.53	0.0089	0.0073
Mercury	110302-08-26 00:56 G	42008274.49	42008274.54	42008274.64	0.0089	0.0083
Earth	110307-12-30 06:27 G	42010226.67	42010226.77	42010226.93	0.0090	0.0077
Moon	110307-12-30 09:49 G	42010226.81	42010226.91	42010227.06	0.0090	0.0077 *
Moon	110308-12-31 15:20 G	42010593.95	42010594.14	42010594.35	0.0090	0.0055
Earth	110308-12-31 18:56 G	42010594.10	42010594.29	42010594.50	0.0090	0.0054 *
Venus	110309-05-06 13:39 G	42010720.01	42010720.07	42010720.16	0.0090	0.0084
Venus	110309-12-18 02:37 G	42010945.50	42010945.61	42010945.74	0.0090	0.0074
Earth	110310-01-03 06:42 G	42010961.56	42010961.78	42010962.03	0.0090	0.0032
Moon	110310-01-03 10:18 G	42010961.70	42010961.93	42010962.18	0.0090	0.0032 *
Venus	110310-07-31 15:20 G	42011171.00	42011171.14	42011171.30	0.0090	0.0064

Moon	110311-01-05 16:03 G	42011328.92	42011329.17	42011329.42	0.0090	0.0009
Earth	110311-01-05 18:56 G	42011329.04	42011329.29	42011329.55	0.0090	0.0009 *
Venus	110311-03-14 04:18 G	42011396.51	42011396.68	42011396.86	0.0090	0.0054
Venus	110311-10-25 17:15 G	42011622.04	42011622.22	42011622.41	0.0090	0.0044
Earth	110312-01-08 06:42 G	42011696.53	42011696.78	42011697.04	0.0090	0.0014
Moon	110312-01-08 08:08 G	42011696.58	42011696.84	42011697.11	0.0090	0.0014 *
Venus	110312-06-07 05:58 G	42011847.56	42011847.75	42011847.96	0.0090	0.0034
Moon	110313-01-09 17:44 G	42012064.03	42012064.24	42012064.48	0.0090	0.0037
Earth	110313-01-09 18:42 G	42012064.05	42012064.28	42012064.52	0.0090	0.0036 *
Venus	110313-01-18 18:42 G	42012073.08	42012073.28	42012073.50	0.0090	0.0024
Venus	110313-09-01 07:39 G	42012298.61	42012298.82	42012299.04	0.0090	0.0014
Moon	110314-01-12 05:15 G	42012431.55	42012431.72	42012431.95	0.0090	0.0059
Earth	110314-01-12 06:13 G	42012431.59	42012431.76	42012431.97	0.0090	0.0059 *
Venus	110314-04-14 20:22 G	42012524.14	42012524.35	42012524.57	0.0090	0.0004
Venus	110314-11-26 09:20 G	42012749.68	42012749.89	42012750.11	0.0090	0.0007
Earth	110315-01-14 18:13 G	42012799.17	42012799.26	42012799.38	0.0090	0.0081
Moon	110315-01-14 20:22 G	42012799.27	42012799.35	42012799.48	0.0090	0.0081 *
Venus	110315-07-09 22:03 G	42012975.21	42012975.42	42012975.64	0.0090	0.0017
Venus	110316-02-20 10:46 G	42013200.75	42013200.95	42013201.17	0.0090	0.0027
Venus	110316-10-02 23:44 G	42013426.30	42013426.49	42013426.69	0.0090	0.0037
Venus	110317-05-16 12:27 G	42013651.84	42013652.02	42013652.21	0.0090	0.0047
Venus	110317-12-28 01:10 G	42013877.39	42013877.55	42013877.72	0.0090	0.0057
Venus	110318-08-10 13:54 G	42014102.94	42014103.08	42014103.22	0.0090	0.0067
Venus	110319-03-24 02:22 G	42014328.50	42014328.60	42014328.72	0.0090	0.0077
Venus	110319-11-04 15:06 G	42014554.09	42014554.13	42014554.19	0.0090	0.0087
Mars	110341-09-18 10:46 G	42022542.87	42022542.95	42022543.07	0.0089	0.0084
Mars	110343-08-12 20:51 G	42023236.09	42023236.37	42023236.65	0.0089	0.0013
Mercury	110379-02-16 02:51 G	42036207.58	42036207.62	42036207.68	0.0088	0.0082
Mercury	110379-05-15 04:18 G	42036295.62	42036295.68	42036295.76	0.0088	0.0075
Mercury	110379-08-11 05:44 G	42036383.66	42036383.74	42036383.83	0.0088	0.0068

Mercury	110379-11-07 07:10 G	42036471.71	42036471.80	42036471.90	0.0088	0.0061
Mercury	110380-02-03 08:22 G	42036559.76	42036559.85	42036559.97	0.0088	0.0055
Mercury	110380-05-01 09:49 G	42036647.81	42036647.91	42036648.03	0.0088	0.0048
Mercury	110380-07-28 11:15 G	42036735.86	42036735.97	42036736.10	0.0088	0.0041
Mercury	110380-10-24 12:42 G	42036823.91	42036824.03	42036824.16	0.0088	0.0034
Mercury	110381-01-20 14:08 G	42036911.96	42036912.09	42036912.22	0.0088	0.0027
Mercury	110381-04-18 15:20 G	42037000.02	42037000.14	42037000.28	0.0088	0.0021
Mercury	110381-07-15 16:46 G	42037088.07	42037088.20	42037088.34	0.0088	0.0014
Mercury	110381-10-11 18:13 G	42037176.13	42037176.26	42037176.39	0.0088	0.0007
Mercury	110382-01-07 19:39 G	42037264.18	42037264.32	42037264.45	0.0088	0.0003
Mercury	110382-04-05 20:51 G	42037352.24	42037352.37	42037352.51	0.0088	0.0006
Mercury	110382-07-02 22:18 G	42037440.29	42037440.43	42037440.56	0.0088	0.0013
Mercury	110382-09-28 23:30 G	42037528.35	42037528.48	42037528.61	0.0088	0.0020
Mercury	110382-12-26 00:56 G	42037616.41	42037616.54	42037616.66	0.0088	0.0026
Mercury	110383-03-24 02:08 G	42037704.47	42037704.59	42037704.72	0.0088	0.0033
Mercury	110383-06-20 03:20 G	42037792.53	42037792.64	42037792.77	0.0088	0.0040
Mercury	110383-09-16 04:46 G	42037880.59	42037880.70	42037880.81	0.0088	0.0046
Mercury	110383-12-13 05:58 G	42037968.65	42037968.75	42037968.86	0.0088	0.0053
Mercury	110384-03-10 07:25 G	42038056.71	42038056.81	42038056.91	0.0088	0.0059
Mercury	110384-06-06 08:37 G	42038144.78	42038144.86	42038144.95	0.0088	0.0066
Mercury	110384-09-02 09:49 G	42038232.85	42038232.91	42038232.99	0.0088	0.0073
Mercury	110384-11-29 11:15 G	42038320.92	42038320.97	42038321.03	0.0088	0.0079
Mercury	110385-02-25 12:13 G	42038409.00	42038409.01	42038409.06	0.0088	0.0086
Moon	110389-06-27 01:39 G	42039991.44	42039991.57	42039991.73	0.0088	0.0073
Earth	110389-06-27 05:01 G	42039991.59	42039991.71	42039991.85	0.0088	0.0076 *
Earth	110390-06-29 16:03 G	42040358.98	42040359.17	42040359.39	0.0088	0.0055
Moon	110390-06-29 19:39 G	42040359.15	42040359.32	42040359.54	0.0088	0.0059 *
Venus	110390-11-07 03:49 G	42040489.63	42040489.66	42040489.73	0.0088	0.0085
Venus	110391-06-20 16:46 G	42040715.11	42040715.20	42040715.34	0.0088	0.0076
Moon	110391-07-02 00:27 G	42040726.29	42040726.52	42040726.78	0.0088	0.0030



Earth	110391-07-02 03:34 G	42040726.43	42040726.65	42040726.91	0.0088	0.0034 *
Venus	110392-02-01 06:13 G	42040940.63	42040940.76	42040940.92	0.0088	0.0066
Earth	110392-07-03 15:20 G	42041093.89	42041094.14	42041094.40	0.0088	0.0012
Moon	110392-07-03 18:27 G	42041094.01	42041094.27	42041094.54	0.0088	0.0015 *
Venus	110392-09-13 19:39 G	42041166.15	42041166.32	42041166.49	0.0088	0.0056
Venus	110393-04-27 08:37 G	42041391.69	42041391.86	42041392.07	0.0088	0.0047
Moon	110393-07-06 00:56 G	42041461.30	42041461.54	42041461.80	0.0088	0.0014
Earth	110393-07-06 02:51 G	42041461.36	42041461.62	42041461.88	0.0088	0.0010 *
Venus	110393-12-08 22:03 G	42041617.23	42041617.42	42041617.63	0.0088	0.0037
Moon	110394-07-08 14:22 G	42041828.85	42041829.10	42041829.36	0.0088	0.0028
Earth	110394-07-08 13:54 G	42041828.86	42041829.08	42041829.34	0.0088	0.0032 *
Venus	110394-07-22 11:15 G	42041842.76	42041842.97	42041843.19	0.0088	0.0027
Venus	110395-03-05 00:27 G	42042068.31	42042068.52	42042068.75	0.0088	0.0017
Earth	110395-07-11 01:25 G	42042196.37	42042196.56	42042196.78	0.0088	0.0053
Moon	110395-07-11 02:08 G	42042196.41	42042196.59	42042196.80	0.0088	0.0056 *
Venus	110395-10-16 13:39 G	42042293.85	42042294.07	42042294.30	0.0088	0.0008
Venus	110396-05-29 03:06 G	42042519.41	42042519.63	42042519.86	0.0088	0.0002
Moon	110396-07-12 10:46 G	42042563.79	42042563.95	42042564.11	0.0088	0.0070
Earth	110396-07-12 13:10 G	42042563.92	42042564.05	42042564.19	0.0088	0.0074 *
Venus	110397-01-09 16:18 G	42042744.96	42042745.18	42042745.40	0.0088	0.0012
Venus	110397-08-23 05:15 G	42042970.51	42042970.72	42042970.95	0.0088	0.0022
Venus	110398-04-05 18:27 G	42043196.08	42043196.27	42043196.49	0.0088	0.0032
Venus	110398-11-17 07:39 G	42043421.64	42043421.82	42043422.03	0.0088	0.0042
Venus	110399-06-30 21:06 G	42043647.21	42043647.38	42043647.57	0.0088	0.0051
Venus	110400-02-11 10:18 G	42043872.78	42043872.93	42043873.10	0.0088	0.0061
Venus	110400-09-23 23:15 G	42044098.36	42044098.47	42044098.63	0.0088	0.0071
Venus	110401-05-07 13:10 G	42044323.97	42044324.05	42044324.14	0.0088	0.0080
Mars	110425-05-19 11:44 G	42053101.78	42053101.99	42053102.24	0.0088	0.0065
Mars	110427-04-16 02:22 G	42053798.35	42053798.60	42053798.92	0.0088	0.0051
Mercury	110463-04-15 11:01 G	42066946.91	42066946.96	42066947.02	0.0089	0.0085

Mercury	110463-07-12 14:08 G	42067035.01	42067035.09	42067035.21	0.0089	0.0075
Mercury	110463-10-08 17:44 G	42067123.12	42067123.24	42067123.38	0.0089	0.0065
Mercury	110464-01-04 21:20 G	42067211.25	42067211.39	42067211.54	0.0089	0.0055
Mercury	110464-04-02 00:56 G	42067299.38	42067299.54	42067299.70	0.0089	0.0046
Mercury	110464-06-29 04:32 G	42067387.51	42067387.69	42067387.86	0.0089	0.0036
Mercury	110464-09-25 07:39 G	42067475.65	42067475.82	42067476.02	0.0089	0.0027
Mercury	110464-12-22 11:15 G	42067563.79	42067563.97	42067564.17	0.0089	0.0017
Mercury	110465-03-20 14:51 G	42067651.94	42067652.12	42067652.32	0.0089	0.0007
Mercury	110465-06-16 18:27 G	42067740.08	42067740.27	42067740.46	0.0089	0.0004
Mercury	110465-09-12 22:03 G	42067828.23	42067828.42	42067828.61	0.0089	0.0014
Mercury	110465-12-10 01:25 G	42067916.39	42067916.56	42067916.75	0.0089	0.0024
Mercury	110466-03-08 05:01 G	42068004.54	42068004.71	42068004.90	0.0089	0.0034
Mercury	110466-06-04 08:22 G	42068092.70	42068092.85	42068093.03	0.0089	0.0045
Mercury	110466-08-31 11:58 G	42068180.86	42068181.00	42068181.17	0.0089	0.0055
Mercury	110466-11-27 15:34 G	42068269.03	42068269.15	42068269.30	0.0089	0.0065
Mercury	110467-02-23 19:10 G	42068357.21	42068357.30	42068357.42	0.0089	0.0075
Mercury	110467-05-22 22:46 G	42068445.41	42068445.45	42068445.53	0.0089	0.0085
Moon	110471-12-29 11:15 G	42070126.97	42070126.97	42070127.00	0.0090	0.0089
Earth	110471-12-29 13:39 G	42070127.01	42070127.07	42070127.15	0.0090	0.0086
Earth	110472-12-31 01:25 G	42070494.40	42070494.56	42070494.76	0.0090	0.0064
Moon	110472-12-31 05:01 G	42070494.53	42070494.71	42070494.90	0.0090	0.0060 *
Venus	110473-08-07 22:46 G	42070714.42	42070714.45	42070714.53	0.0090	0.0087
Moon	110474-01-02 10:03 G	42070861.72	42070861.92	42070862.16	0.0090	0.0045
Earth	110474-01-02 13:54 G	42070861.85	42070862.08	42070862.31	0.0090	0.0041 *
Venus	110474-03-21 11:44 G	42070939.90	42070939.99	42070940.12	0.0090	0.0077
Venus	110474-11-02 00:42 G	42071165.41	42071165.53	42071165.70	0.0090	0.0067
Earth	110475-01-05 01:25 G	42071229.32	42071229.56	42071229.82	0.0090	0.0019
Moon	110475-01-05 05:01 G	42071229.47	42071229.71	42071229.98	0.0090	0.0016 *
Venus	110475-06-15 13:39 G	42071390.92	42071391.07	42071391.25	0.0090	0.0057
Moon	110476-01-07 10:46 G	42071596.70	42071596.95	42071597.21	0.0090	0.0002

Earth	110476-01-07 13:25 G	42071596.81	42071597.06	42071597.32	0.0090	0.0004	*
Venus	110476-01-27 02:22 G	42071616.43	42071616.60	42071616.80	0.0090	0.0047	
Venus	110476-09-08 15:20 G	42071841.95	42071842.14	42071842.35	0.0090	0.0037	
Earth	110477-01-09 00:56 G	42071964.31	42071964.54	42071964.80	0.0090	0.0027	
Moon	110477-01-09 03:20 G	42071964.40	42071964.64	42071964.90	0.0090	0.0029	*
Venus	110477-04-22 04:03 G	42072067.48	42072067.67	42072067.89	0.0090	0.0027	
Venus	110477-12-03 17:01 G	42072293.01	42072293.21	42072293.43	0.0090	0.0017	
Moon	110478-01-11 12:13 G	42072331.80	42072332.01	42072332.23	0.0090	0.0046	
Earth	110478-01-11 12:56 G	42072331.84	42072332.04	42072332.26	0.0090	0.0049	*
Venus	110478-07-17 05:58 G	42072518.53	42072518.75	42072518.97	0.0090	0.0006	
Moon	110479-01-13 23:30 G	42072699.36	42072699.48	42072699.65	0.0090	0.0075	
Earth	110479-01-14 00:13 G	42072699.39	42072699.51	42072699.69	0.0090	0.0072	*
Venus	110479-02-27 18:42 G	42072744.07	42072744.28	42072744.50	0.0090	0.0004	
Venus	110479-10-11 07:39 G	42072969.60	42072969.82	42072970.03	0.0090	0.0014	
Venus	110480-05-23 20:08 G	42073195.14	42073195.34	42073195.56	0.0090	0.0025	
Venus	110481-01-04 08:51 G	42073420.68	42073420.87	42073421.08	0.0090	0.0035	
Venus	110481-08-17 21:20 G	42073646.22	42073646.39	42073646.60	0.0090	0.0045	
Venus	110482-03-31 10:03 G	42073871.77	42073871.92	42073872.11	0.0090	0.0055	
Venus	110482-11-11 23:01 G	42074097.33	42074097.46	42074097.63	0.0090	0.0065	
Venus	110483-06-25 12:13 G	42074322.89	42074323.01	42074323.13	0.0090	0.0074	
Venus	110484-02-06 00:27 G	42074548.46	42074548.52	42074548.61	0.0090	0.0084	
Mars	110507-03-29 09:06 G	42082999.61	42082999.88	42083000.16	0.0089	0.0026	
Mars	110509-02-19 19:25 G	42083693.15	42083693.31	42083693.49	0.0089	0.0071	
Mercury	110543-08-18 00:42 G	42096290.52	42096290.53	42096290.56	0.0088	0.0087	
Mercury	110543-11-14 02:08 G	42096378.55	42096378.59	42096378.65	0.0088	0.0080	
Mercury	110544-02-10 03:34 G	42096466.59	42096466.65	42096466.73	0.0088	0.0074	
Mercury	110544-05-08 04:46 G	42096554.63	42096554.70	42096554.80	0.0088	0.0067	
Mercury	110544-08-04 06:13 G	42096642.68	42096642.76	42096642.87	0.0088	0.0060	
Mercury	110544-10-31 07:39 G	42096730.72	42096730.82	42096730.94	0.0088	0.0053	
Mercury	110545-01-27 09:06 G	42096818.77	42096818.88	42096819.00	0.0088	0.0046	

Mercury	110545-04-25 10:32 G	42096906.83	42096906.94	42096907.07	0.0088	0.0039
Mercury	110545-07-22 11:58 G	42096994.88	42096995.00	42096995.13	0.0088	0.0033
Mercury	110545-10-18 13:10 G	42097082.93	42097083.05	42097083.19	0.0088	0.0026
Mercury	110546-01-14 14:37 G	42097170.98	42097171.11	42097171.25	0.0088	0.0019
Mercury	110546-04-12 16:03 G	42097259.04	42097259.17	42097259.31	0.0088	0.0012
Mercury	110546-07-09 17:30 G	42097347.09	42097347.23	42097347.36	0.0088	0.0006
Mercury	110546-10-05 18:42 G	42097435.15	42097435.28	42097435.42	0.0088	0.0003
Mercury	110547-01-01 20:08 G	42097523.21	42097523.34	42097523.47	0.0088	0.0008
Mercury	110547-03-30 21:20 G	42097611.26	42097611.39	42097611.53	0.0088	0.0015
Mercury	110547-06-26 22:46 G	42097699.32	42097699.45	42097699.58	0.0088	0.0021
Mercury	110547-09-22 23:58 G	42097787.38	42097787.50	42097787.63	0.0088	0.0028
Mercury	110547-12-20 01:10 G	42097875.44	42097875.55	42097875.69	0.0088	0.0035
Mercury	110548-03-17 02:51 G	42097963.50	42097963.62	42097963.74	0.0088	0.0041
Mercury	110548-06-13 04:03 G	42098051.56	42098051.67	42098051.78	0.0088	0.0048
Mercury	110548-09-09 05:15 G	42098139.62	42098139.72	42098139.83	0.0088	0.0055
Mercury	110548-12-06 06:42 G	42098227.69	42098227.78	42098227.88	0.0088	0.0061
Mercury	110549-03-04 07:54 G	42098315.75	42098315.83	42098315.92	0.0088	0.0068
Mercury	110549-05-31 09:20 G	42098403.82	42098403.89	42098403.96	0.0088	0.0074
Mercury	110549-08-27 10:18 G	42098491.90	42098491.93	42098492.00	0.0088	0.0081
Mercury	110549-11-23 11:58 G	42098579.99	42098580.00	42098580.01	0.0088	0.0087
Earth	110553-06-27 11:30 G	42099891.93	42099891.98	42099892.05	0.0088	0.0085
Moon	110554-06-29 20:08 G	42100259.15	42100259.34	42100259.54	0.0088	0.0059
Earth	110554-06-29 22:46 G	42100259.29	42100259.45	42100259.64	0.0088	0.0064 *
Venus	110555-02-09 12:42 G	42100484.01	42100484.03	42100484.05	0.0088	0.0087
Earth	110555-07-02 09:49 G	42100626.71	42100626.91	42100627.16	0.0088	0.0043
Moon	110555-07-02 13:10 G	42100626.85	42100627.05	42100627.28	0.0088	0.0047 *
Venus	110555-09-23 01:25 G	42100709.47	42100709.56	42100709.68	0.0088	0.0078
Venus	110556-05-05 14:51 G	42100934.99	42100935.12	42100935.27	0.0088	0.0068
Moon	110556-07-03 17:44 G	42100994.00	42100994.24	42100994.51	0.0088	0.0017
Earth	110556-07-03 21:34 G	42100994.15	42100994.40	42100994.66	0.0088	0.0021 *

Venus	110556-12-17 03:49 G	42101160.51	42101160.66	42101160.84	0.0088	0.0059
Earth	110557-07-06 09:06 G	42101361.62	42101361.88	42101362.14	0.0088	0.0001
Moon	110557-07-06 12:27 G	42101361.76	42101362.02	42101362.29	0.0088	0.0004 *
Venus	110557-07-30 17:01 G	42101386.04	42101386.21	42101386.41	0.0088	0.0049
Venus	110558-03-13 06:27 G	42101611.58	42101611.77	42101611.98	0.0088	0.0039
Moon	110558-07-08 17:44 G	42101729.01	42101729.24	42101729.50	0.0088	0.0027
Earth	110558-07-08 20:37 G	42101729.11	42101729.36	42101729.61	0.0088	0.0022 *
Venus	110558-10-24 19:25 G	42101837.12	42101837.31	42101837.54	0.0088	0.0030
Venus	110559-06-07 08:51 G	42102062.66	42102062.87	42102063.10	0.0088	0.0020
Earth	110559-07-11 07:39 G	42102096.61	42102096.82	42102097.06	0.0088	0.0044
Moon	110559-07-11 09:34 G	42102096.68	42102096.90	42102097.16	0.0088	0.0040 *
Venus	110560-01-18 22:18 G	42102288.21	42102288.43	42102288.65	0.0088	0.0010
Earth	110560-07-12 19:25 G	42102464.14	42102464.31	42102464.49	0.0088	0.0065
Moon	110560-07-12 19:10 G	42102464.16	42102464.30	42102464.46	0.0088	0.0070 *
Venus	110560-08-31 11:30 G	42102513.76	42102513.98	42102514.20	0.0088	0.0000
Venus	110561-04-14 00:42 G	42102739.31	42102739.53	42102739.76	0.0088	0.0010
Moon	110561-07-15 05:15 G	42102831.66	42102831.72	42102831.84	0.0088	0.0083
Earth	110561-07-15 06:27 G	42102831.76	42102831.77	42102831.83	0.0088	0.0087 *
Venus	110561-11-25 13:54 G	42102964.87	42102965.08	42102965.31	0.0088	0.0020
Venus	110562-07-09 03:20 G	42103190.43	42103190.64	42103190.85	0.0088	0.0029
Venus	110563-02-19 16:18 G	42103415.99	42103416.18	42103416.39	0.0088	0.0039
Venus	110563-10-03 05:15 G	42103641.55	42103641.72	42103641.93	0.0088	0.0049
Venus	110564-05-15 18:42 G	42103867.13	42103867.28	42103867.46	0.0088	0.0059
Venus	110564-12-27 08:08 G	42104092.71	42104092.84	42104092.99	0.0088	0.0068
Venus	110565-08-09 21:06 G	42104318.30	42104318.38	42104318.51	0.0088	0.0078
Venus	110566-03-23 10:32 G	42104543.94	42104543.94	42104543.98	0.0088	0.0087
Mars	110590-11-28 03:49 G	42113559.31	42113559.66	42113560.01	0.0088	0.0006
Jupiter	110596-05-11 11:58 G	42115550.53	42115551.00	42115551.54	0.0088	0.0042
Mercury	110628-01-12 08:51 G	42127117.81	42127117.87	42127117.96	0.0089	0.0082
Mercury	110628-04-09 12:27 G	42127205.91	42127206.02	42127206.14	0.0089	0.0072

Mercury	110628-07-06 15:34 G	42127294.03	42127294.15	42127294.30	0.0089	0.0063
Mercury	110628-10-02 19:10 G	42127382.16	42127382.30	42127382.47	0.0089	0.0053
Mercury	110628-12-29 22:46 G	42127470.29	42127470.45	42127470.62	0.0089	0.0043
Mercury	110629-03-28 02:22 G	42127558.42	42127558.60	42127558.78	0.0089	0.0033
Mercury	110629-06-24 05:44 G	42127646.56	42127646.74	42127646.93	0.0089	0.0023
Mercury	110629-09-20 09:20 G	42127734.70	42127734.89	42127735.08	0.0089	0.0013
Mercury	110629-12-17 12:56 G	42127822.85	42127823.04	42127823.23	0.0089	0.0003
Mercury	110630-03-15 16:18 G	42127910.99	42127911.18	42127911.38	0.0089	0.0007
Mercury	110630-06-11 19:54 G	42127999.14	42127999.33	42127999.52	0.0089	0.0017
Mercury	110630-09-07 23:30 G	42128087.30	42128087.48	42128087.66	0.0089	0.0027
Mercury	110630-12-05 03:06 G	42128175.45	42128175.63	42128175.80	0.0089	0.0037
Mercury	110631-03-03 06:27 G	42128263.61	42128263.77	42128263.94	0.0089	0.0047
Mercury	110631-05-30 09:49 G	42128351.78	42128351.91	42128352.07	0.0089	0.0057
Mercury	110631-08-26 13:10 G	42128439.95	42128440.05	42128440.20	0.0089	0.0068
Mercury	110631-11-22 16:46 G	42128528.13	42128528.20	42128528.32	0.0089	0.0078
Mercury	110632-02-18 20:22 G	42128616.33	42128616.35	42128616.41	0.0089	0.0088
Earth	110637-01-01 08:08 G	42130394.72	42130394.84	42130395.01	0.0090	0.0074
Moon	110637-01-01 10:03 G	42130394.79	42130394.92	42130395.08	0.0090	0.0075 *
Venus	110637-11-11 08:51 G	42130708.86	42130708.87	42130708.91	0.0090	0.0089
Moon	110638-01-03 19:39 G	42130762.14	42130762.32	42130762.55	0.0090	0.0050
Earth	110638-01-03 20:37 G	42130762.16	42130762.36	42130762.58	0.0090	0.0051 *
Venus	110638-06-24 21:49 G	42130934.32	42130934.41	42130934.52	0.0090	0.0079
Moon	110639-01-06 07:10 G	42131129.56	42131129.80	42131130.05	0.0090	0.0031
Earth	110639-01-06 08:22 G	42131129.62	42131129.85	42131130.11	0.0090	0.0029 *
Venus	110639-02-05 10:32 G	42131159.82	42131159.94	42131160.09	0.0090	0.0069
Venus	110639-09-18 23:30 G	42131385.33	42131385.48	42131385.65	0.0090	0.0059
Earth	110640-01-08 20:37 G	42131497.10	42131497.36	42131497.62	0.0090	0.0006
Moon	110640-01-08 22:46 G	42131497.20	42131497.45	42131497.70	0.0090	0.0004 *
Venus	110640-05-01 12:27 G	42131610.84	42131611.02	42131611.21	0.0090	0.0049
Venus	110640-12-13 01:10 G	42131836.37	42131836.55	42131836.76	0.0090	0.0039

Moon	110641-01-10 05:30 G	42131864.47	42131864.73	42131864.99	0.0090	0.0015
Earth	110641-01-10 08:37 G	42131864.61	42131864.86	42131865.11	0.0090	0.0017 *
Venus	110641-07-26 13:54 G	42132061.89	42132062.08	42132062.30	0.0090	0.0029
Earth	110642-01-12 19:54 G	42132232.12	42132232.33	42132232.58	0.0090	0.0040
Moon	110642-01-12 23:44 G	42132232.27	42132232.49	42132232.72	0.0090	0.0042 *
Venus	110642-03-09 02:51 G	42132287.41	42132287.62	42132287.84	0.0090	0.0019
Venus	110642-10-20 15:49 G	42132512.95	42132513.16	42132513.38	0.0090	0.0009
Moon	110643-01-15 04:32 G	42132599.51	42132599.69	42132599.89	0.0090	0.0060
Earth	110643-01-15 07:54 G	42132599.65	42132599.83	42132600.02	0.0090	0.0062 *
Venus	110643-06-03 04:32 G	42132738.48	42132738.69	42132738.91	0.0090	0.0002
Venus	110644-01-14 17:15 G	42132964.01	42132964.22	42132964.44	0.0090	0.0012
Earth	110644-01-17 19:10 G	42132967.25	42132967.30	42132967.41	0.0090	0.0085
Moon	110644-01-17 22:32 G	42132967.39	42132967.44	42132967.54	0.0090	0.0086 *
Venus	110644-08-27 05:58 G	42133189.54	42133189.75	42133189.96	0.0090	0.0022
Venus	110645-04-09 18:42 G	42133415.08	42133415.28	42133415.49	0.0090	0.0032
Venus	110645-11-21 07:25 G	42133640.63	42133640.81	42133641.01	0.0090	0.0042
Venus	110646-07-04 20:08 G	42133866.18	42133866.34	42133866.53	0.0090	0.0052
Venus	110647-02-15 08:51 G	42134091.73	42134091.87	42134092.04	0.0090	0.0062
Venus	110647-09-28 21:34 G	42134317.29	42134317.40	42134317.54	0.0090	0.0072
Venus	110648-05-11 10:03 G	42134542.86	42134542.92	42134543.03	0.0090	0.0082
Mars	110670-11-12 21:20 G	42142763.22	42142763.39	42142763.61	0.0089	0.0065
Mars	110672-10-06 07:39 G	42143456.57	42143456.82	42143457.10	0.0089	0.0033
Mercury	110708-05-16 00:13 G	42156461.48	42156461.51	42156461.54	0.0088	0.0085
Mercury	110708-08-12 01:39 G	42156549.51	42156549.57	42156549.63	0.0088	0.0079
Mercury	110708-11-08 02:37 G	42156637.55	42156637.61	42156637.70	0.0088	0.0072
Mercury	110709-02-04 04:03 G	42156725.59	42156725.67	42156725.78	0.0088	0.0066
Mercury	110709-05-03 05:44 G	42156813.64	42156813.74	42156813.84	0.0088	0.0058
Mercury	110709-07-30 07:10 G	42156901.69	42156901.80	42156901.91	0.0088	0.0051
Mercury	110709-10-26 08:37 G	42156989.74	42156989.86	42156989.97	0.0088	0.0044
Mercury	110710-01-22 09:49 G	42157077.79	42157077.91	42157078.04	0.0088	0.0038

Mercury	110710-04-20 11:15 G	42157165.85	42157165.97	42157166.10	0.0088	0.0031
Mercury	110710-07-17 12:42 G	42157253.90	42157254.03	42157254.16	0.0088	0.0024
Mercury	110710-10-13 13:54 G	42157341.95	42157342.08	42157342.22	0.0088	0.0018
Mercury	110711-01-09 15:20 G	42157430.01	42157430.14	42157430.28	0.0088	0.0011
Mercury	110711-04-07 16:46 G	42157518.06	42157518.20	42157518.33	0.0088	0.0004
Mercury	110711-07-04 17:58 G	42157606.12	42157606.25	42157606.39	0.0088	0.0004
Mercury	110711-09-30 19:25 G	42157694.18	42157694.31	42157694.44	0.0088	0.0010
Mercury	110711-12-27 20:51 G	42157782.23	42157782.37	42157782.50	0.0088	0.0016
Mercury	110712-03-24 22:03 G	42157870.29	42157870.42	42157870.55	0.0088	0.0023
Mercury	110712-06-20 23:15 G	42157958.35	42157958.47	42157958.60	0.0088	0.0030
Mercury	110712-09-17 00:42 G	42158046.41	42158046.53	42158046.66	0.0088	0.0036
Mercury	110712-12-14 01:54 G	42158134.47	42158134.58	42158134.71	0.0088	0.0043
Mercury	110713-03-12 03:20 G	42158222.54	42158222.64	42158222.75	0.0088	0.0050
Mercury	110713-06-08 04:46 G	42158310.60	42158310.70	42158310.80	0.0088	0.0056
Mercury	110713-09-04 05:58 G	42158398.66	42158398.75	42158398.85	0.0088	0.0063
Mercury	110713-12-01 07:25 G	42158486.73	42158486.81	42158486.89	0.0088	0.0069
Mercury	110714-02-27 08:37 G	42158574.80	42158574.86	42158574.93	0.0088	0.0076
Mercury	110714-05-26 09:49 G	42158662.88	42158662.91	42158662.96	0.0088	0.0083
Moon	110718-07-01 02:51 G	42160159.50	42160159.62	42160159.76	0.0088	0.0075
Earth	110718-07-01 05:58 G	42160159.62	42160159.75	42160159.91	0.0088	0.0073 *
Earth	110719-07-03 17:01 G	42160527.02	42160527.21	42160527.44	0.0088	0.0052
Moon	110719-07-03 20:22 G	42160527.14	42160527.35	42160527.57	0.0088	0.0050 *
Venus	110719-12-27 10:32 G	42160703.86	42160703.94	42160704.05	0.0088	0.0080
Moon	110720-07-05 02:51 G	42160894.41	42160894.62	42160894.87	0.0088	0.0033
Earth	110720-07-05 04:46 G	42160894.46	42160894.70	42160894.95	0.0088	0.0030 *
Venus	110720-08-08 23:44 G	42160929.37	42160929.49	42160929.63	0.0088	0.0070
Venus	110721-03-22 12:42 G	42161154.89	42161155.03	42161155.21	0.0088	0.0061
Earth	110721-07-07 16:03 G	42161261.92	42161262.17	42161262.43	0.0088	0.0009
Moon	110721-07-07 16:18 G	42161261.92	42161262.18	42161262.45	0.0088	0.0007 *
Venus	110721-11-03 02:08 G	42161380.42	42161380.59	42161380.78	0.0088	0.0051



Venus	110722-06-16 15:34 G	42161605.95	42161606.15	42161606.34	0.0088	0.0041
Earth	110722-07-10 03:20 G	42161629.39	42161629.64	42161629.91	0.0088	0.0014
Moon	110722-07-10 04:03 G	42161629.43	42161629.67	42161629.93	0.0088	0.0012 *
Venus	110723-01-28 04:18 G	42161831.49	42161831.68	42161831.90	0.0088	0.0032
Moon	110723-07-12 12:42 G	42161996.79	42161997.03	42161997.27	0.0088	0.0037
Earth	110723-07-12 14:51 G	42161996.90	42161997.12	42161997.37	0.0088	0.0035 *
Venus	110723-09-10 17:44 G	42162057.03	42162057.24	42162057.46	0.0088	0.0022
Venus	110724-04-23 07:10 G	42162282.58	42162282.80	42162283.03	0.0088	0.0012
Earth	110724-07-14 01:54 G	42162364.41	42162364.58	42162364.81	0.0088	0.0057
Moon	110724-07-14 05:01 G	42162364.54	42162364.71	42162364.93	0.0088	0.0055 *
Venus	110724-12-04 20:22 G	42162508.13	42162508.35	42162508.58	0.0088	0.0003
Moon	110725-07-16 10:03 G	42162731.84	42162731.92	42162732.06	0.0088	0.0080
Earth	110725-07-16 13:54 G	42162731.98	42162732.08	42162732.21	0.0088	0.0078 *
Venus	110725-07-18 09:34 G	42162733.68	42162733.90	42162734.13	0.0088	0.0008
Venus	110726-02-28 22:46 G	42162959.24	42162959.45	42162959.68	0.0088	0.0017
Venus	110726-10-12 12:13 G	42163184.80	42163185.01	42163185.22	0.0088	0.0027
Venus	110727-05-26 01:25 G	42163410.36	42163410.56	42163410.77	0.0088	0.0037
Venus	110728-01-06 14:22 G	42163635.93	42163636.10	42163636.31	0.0088	0.0047
Venus	110728-08-19 04:03 G	42163861.50	42163861.67	42163861.84	0.0088	0.0056
Venus	110729-04-01 17:01 G	42164087.08	42164087.21	42164087.37	0.0088	0.0066
Venus	110729-11-13 05:58 G	42164312.67	42164312.75	42164312.89	0.0088	0.0076
Venus	110730-06-26 19:39 G	42164538.28	42164538.32	42164538.38	0.0088	0.0085
Mars	110754-07-13 06:13 G	42173320.47	42173320.76	42173321.11	0.0088	0.0038
Mars	110756-06-08 20:08 G	42174017.22	42174017.34	42174017.54	0.0088	0.0078
Jupiter	110762-07-18 01:10 G	42176247.01	42176247.55	42176248.12	0.0088	0.0021
Mercury	110792-07-13 03:34 G	42187200.63	42187200.65	42187200.70	0.0089	0.0088
Mercury	110792-10-09 07:10 G	42187288.72	42187288.80	42187288.90	0.0089	0.0078
Mercury	110793-01-05 10:18 G	42187376.83	42187376.93	42187377.07	0.0089	0.0069
Mercury	110793-04-03 13:54 G	42187464.95	42187465.08	42187465.24	0.0089	0.0059
Mercury	110793-06-30 17:30 G	42187553.08	42187553.23	42187553.40	0.0089	0.0049

Mercury	110793-09-26 21:06 G	42187641.21	42187641.38	42187641.56	0.0089	0.0039
Mercury	110793-12-24 00:27 G	42187729.35	42187729.52	42187729.71	0.0089	0.0029
Mercury	110794-03-22 04:03 G	42187817.49	42187817.67	42187817.86	0.0089	0.0019
Mercury	110794-06-18 07:39 G	42187905.63	42187905.82	42187906.01	0.0089	0.0009
Mercury	110794-09-14 11:01 G	42187993.77	42187993.96	42187994.16	0.0089	0.0003
Mercury	110794-12-11 14:37 G	42188081.92	42188082.11	42188082.30	0.0089	0.0011
Mercury	110795-03-09 18:13 G	42188170.07	42188170.26	42188170.44	0.0089	0.0021
Mercury	110795-06-05 21:34 G	42188258.23	42188258.40	42188258.58	0.0089	0.0031
Mercury	110795-09-02 01:10 G	42188346.38	42188346.55	42188346.72	0.0089	0.0041
Mercury	110795-11-29 04:32 G	42188434.54	42188434.69	42188434.86	0.0089	0.0051
Mercury	110796-02-25 08:08 G	42188522.71	42188522.84	42188522.99	0.0089	0.0061
Mercury	110796-05-23 11:44 G	42188610.88	42188610.99	42188611.11	0.0089	0.0071
Mercury	110796-08-19 15:20 G	42188699.06	42188699.14	42188699.23	0.0089	0.0081
Moon	110801-01-01 12:56 G	42190294.98	42190295.04	42190295.16	0.0089	0.0084
Earth	110801-01-01 16:03 G	42190295.09	42190295.17	42190295.28	0.0089	0.0083 *
Earth	110802-01-04 03:49 G	42190662.50	42190662.66	42190662.87	0.0090	0.0061
Moon	110802-01-04 07:54 G	42190662.65	42190662.83	42190663.03	0.0090	0.0060 *
Venus	110802-09-27 07:54 G	42190928.75	42190928.83	42190928.93	0.0090	0.0081
Moon	110803-01-06 12:56 G	42191029.82	42191030.04	42191030.28	0.0090	0.0038
Earth	110803-01-06 16:18 G	42191029.96	42191030.18	42191030.42	0.0090	0.0038 *
Venus	110803-05-10 20:51 G	42191154.25	42191154.37	42191154.51	0.0090	0.0071
Venus	110803-12-22 09:49 G	42191379.76	42191379.91	42191380.07	0.0090	0.0061
Earth	110804-01-09 04:18 G	42191397.43	42191397.68	42191397.94	0.0090	0.0015
Moon	110804-01-09 07:39 G	42191397.57	42191397.82	42191398.08	0.0090	0.0014 *
Venus	110804-08-03 22:32 G	42191605.27	42191605.44	42191605.63	0.0090	0.0051
Moon	110805-01-10 14:08 G	42191764.85	42191765.09	42191765.34	0.0090	0.0008
Earth	110805-01-10 16:18 G	42191764.93	42191765.18	42191765.44	0.0090	0.0008 *
Venus	110805-03-17 11:30 G	42191830.79	42191830.98	42191831.18	0.0090	0.0041
Venus	110805-10-29 00:27 G	42192056.32	42192056.52	42192056.73	0.0090	0.0031
Earth	110806-01-13 03:34 G	42192132.43	42192132.65	42192132.91	0.0090	0.0031

Moon	110806-01-13 05:01 G	42192132.47	42192132.71	42192132.96	0.0090	0.0031	*
Venus	110806-06-11 13:10 G	42192281.84	42192282.05	42192282.27	0.0090	0.0021	
Earth	110807-01-15 15:34 G	42192499.96	42192500.15	42192500.37	0.0090	0.0053	
Moon	110807-01-15 15:34 G	42192499.96	42192500.15	42192500.36	0.0090	0.0052	*
Venus	110807-01-23 01:54 G	42192507.37	42192507.58	42192507.80	0.0090	0.0011	
Venus	110807-09-05 14:51 G	42192732.90	42192733.12	42192733.33	0.0090	0.0002	
Moon	110808-01-18 01:10 G	42192867.44	42192867.55	42192867.72	0.0090	0.0076	
Earth	110808-01-18 03:06 G	42192867.52	42192867.63	42192867.79	0.0090	0.0076	*
Venus	110808-04-18 03:20 G	42192958.43	42192958.64	42192958.86	0.0090	0.0010	
Venus	110808-11-29 16:03 G	42193183.97	42193184.17	42193184.39	0.0090	0.0020	
Venus	110809-07-13 04:46 G	42193409.51	42193409.70	42193409.92	0.0090	0.0030	
Venus	110810-02-23 17:15 G	42193635.05	42193635.22	42193635.43	0.0090	0.0040	
Venus	110810-10-07 05:58 G	42193860.59	42193860.75	42193860.95	0.0090	0.0050	
Venus	110811-05-20 18:42 G	42194086.14	42194086.28	42194086.46	0.0090	0.0060	
Venus	110812-01-01 07:25 G	42194311.70	42194311.81	42194311.97	0.0090	0.0070	
Venus	110812-08-13 20:37 G	42194537.26	42194537.36	42194537.46	0.0090	0.0079	
Venus	110813-03-27 09:06 G	42194762.87	42194762.88	42194762.91	0.0090	0.0089	
Mars	110836-05-22 22:46 G	42203220.17	42203220.45	42203220.74	0.0089	0.0005	
Mercury	110873-02-09 23:30 G	42216632.44	42216632.48	42216632.53	0.0088	0.0083	
Mercury	110873-05-09 00:56 G	42216720.48	42216720.54	42216720.61	0.0088	0.0076	
Mercury	110873-08-05 02:22 G	42216808.52	42216808.60	42216808.69	0.0088	0.0069	
Mercury	110873-11-01 03:34 G	42216896.57	42216896.65	42216896.76	0.0088	0.0063	
Mercury	110874-01-28 05:01 G	42216984.61	42216984.71	42216984.82	0.0088	0.0056	
Mercury	110874-04-26 06:27 G	42217072.66	42217072.77	42217072.89	0.0088	0.0049	
Mercury	110874-07-23 07:54 G	42217160.71	42217160.83	42217160.95	0.0088	0.0042	
Mercury	110874-10-19 09:20 G	42217248.77	42217248.89	42217249.01	0.0088	0.0035	
Mercury	110875-01-15 10:32 G	42217336.82	42217336.94	42217337.08	0.0088	0.0029	
Mercury	110875-04-13 11:58 G	42217424.87	42217425.00	42217425.13	0.0088	0.0022	
Mercury	110875-07-10 13:25 G	42217512.93	42217513.06	42217513.19	0.0088	0.0015	
Mercury	110875-10-06 14:37 G	42217600.98	42217601.11	42217601.25	0.0088	0.0009	

Mercury	110876-01-02 16:03 G	42217689.04	42217689.17	42217689.31	0.0088	0.0003
Mercury	110876-03-30 17:30 G	42217777.09	42217777.23	42217777.36	0.0088	0.0005
Mercury	110876-06-26 18:42 G	42217865.15	42217865.28	42217865.42	0.0088	0.0012
Mercury	110876-09-22 20:08 G	42217953.21	42217953.34	42217953.47	0.0088	0.0018
Mercury	110876-12-19 21:34 G	42218041.27	42218041.40	42218041.53	0.0088	0.0025
Mercury	110877-03-17 22:46 G	42218129.33	42218129.45	42218129.58	0.0088	0.0032
Mercury	110877-06-14 00:13 G	42218217.39	42218217.51	42218217.63	0.0088	0.0038
Mercury	110877-09-10 01:25 G	42218305.45	42218305.56	42218305.68	0.0088	0.0045
Mercury	110877-12-07 02:37 G	42218393.51	42218393.61	42218393.73	0.0088	0.0052
Mercury	110878-03-05 04:03 G	42218481.58	42218481.67	42218481.78	0.0088	0.0058
Mercury	110878-06-01 05:15 G	42218569.64	42218569.72	42218569.82	0.0088	0.0065
Mercury	110878-08-28 06:56 G	42218657.71	42218657.79	42218657.86	0.0088	0.0071
Mercury	110878-11-24 07:54 G	42218745.78	42218745.83	42218745.90	0.0088	0.0078
Mercury	110879-02-20 09:06 G	42218833.86	42218833.88	42218833.93	0.0088	0.0085
Earth	110882-06-30 13:10 G	42220059.98	42220060.05	42220060.17	0.0088	0.0082
Moon	110882-06-30 14:08 G	42220060.02	42220060.09	42220060.20	0.0088	0.0082 *
Moon	110883-07-02 21:49 G	42220427.25	42220427.41	42220427.63	0.0088	0.0061
Earth	110883-07-03 00:56 G	42220427.36	42220427.54	42220427.73	0.0088	0.0060 *
Venus	110884-03-29 19:39 G	42220698.26	42220698.32	42220698.42	0.0088	0.0082
Earth	110884-07-04 11:44 G	42220794.77	42220794.99	42220795.24	0.0088	0.0039
Moon	110884-07-04 15:06 G	42220794.91	42220795.13	42220795.37	0.0088	0.0038 *
Venus	110884-11-10 09:06 G	42220923.76	42220923.88	42220924.01	0.0088	0.0072
Venus	110885-06-23 21:49 G	42221149.28	42221149.41	42221149.59	0.0088	0.0063
Moon	110885-07-06 19:54 G	42221162.08	42221162.33	42221162.59	0.0088	0.0017
Earth	110885-07-06 23:30 G	42221162.23	42221162.48	42221162.74	0.0088	0.0017 *
Venus	110886-02-04 11:01 G	42221374.80	42221374.96	42221375.15	0.0088	0.0053
Earth	110886-07-09 10:46 G	42221529.69	42221529.95	42221530.21	0.0088	0.0005
Moon	110886-07-09 14:22 G	42221529.85	42221530.10	42221530.37	0.0088	0.0005 *
Venus	110886-09-17 23:58 G	42221600.33	42221600.50	42221600.71	0.0088	0.0044
Venus	110887-05-01 13:25 G	42221825.87	42221826.06	42221826.28	0.0088	0.0034

Moon	110887-07-11 19:25 G	42221897.08	42221897.31	42221897.56	0.0088	0.0026
Earth	110887-07-11 22:03 G	42221897.18	42221897.42	42221897.68	0.0088	0.0026 *
Venus	110887-12-13 02:51 G	42222051.41	42222051.62	42222051.84	0.0088	0.0024
Earth	110888-07-13 09:20 G	42222264.69	42222264.89	42222265.12	0.0088	0.0048
Moon	110888-07-13 11:44 G	42222264.77	42222264.99	42222265.22	0.0088	0.0047 *
Venus	110888-07-25 15:49 G	42222276.95	42222277.16	42222277.39	0.0088	0.0015
Venus	110889-03-08 05:15 G	42222502.50	42222502.72	42222502.95	0.0088	0.0005
Moon	110889-07-15 20:37 G	42222632.21	42222632.36	42222632.52	0.0088	0.0069
Earth	110889-07-15 21:20 G	42222632.23	42222632.39	42222632.55	0.0088	0.0069 *
Venus	110889-10-19 18:27 G	42222728.05	42222728.27	42222728.50	0.0088	0.0006
Venus	110890-06-02 07:54 G	42222953.61	42222953.83	42222954.05	0.0088	0.0015
Venus	110891-01-13 21:06 G	42223179.17	42223179.38	42223179.60	0.0088	0.0025
Venus	110891-08-27 10:18 G	42223404.73	42223404.93	42223405.14	0.0088	0.0035
Venus	110892-04-08 23:30 G	42223630.30	42223630.48	42223630.69	0.0088	0.0045
Venus	110892-11-20 13:10 G	42223855.87	42223856.05	42223856.23	0.0088	0.0054
Venus	110893-07-04 02:08 G	42224081.45	42224081.59	42224081.76	0.0088	0.0064
Venus	110894-02-14 15:06 G	42224307.04	42224307.13	42224307.28	0.0088	0.0074
Venus	110894-09-28 04:46 G	42224532.64	42224532.70	42224532.78	0.0088	0.0083
Mars	110918-02-24 09:06 G	42233081.80	42233081.88	42233082.05	0.0088	0.0082
Mars	110920-01-21 23:15 G	42233778.16	42233778.47	42233778.81	0.0088	0.0034
Jupiter	110928-09-26 00:42 G	42236948.45	42236948.53	42236948.76	0.0088	0.0086
Mercury	110957-04-10 01:54 G	42247371.53	42247371.58	42247371.66	0.0089	0.0084
Mercury	110957-07-07 05:44 G	42247459.63	42247459.74	42247459.84	0.0089	0.0074
Mercury	110957-10-03 08:51 G	42247547.75	42247547.87	42247548.01	0.0089	0.0064
Mercury	110957-12-30 12:27 G	42247635.88	42247636.02	42247636.18	0.0089	0.0054
Mercury	110958-03-28 16:03 G	42247724.01	42247724.17	42247724.33	0.0089	0.0045
Mercury	110958-06-24 19:10 G	42247812.14	42247812.30	42247812.49	0.0089	0.0035
Mercury	110958-09-20 22:46 G	42247900.28	42247900.45	42247900.64	0.0089	0.0025
Mercury	110958-12-18 02:22 G	42247988.42	42247988.60	42247988.79	0.0089	0.0015
Mercury	110959-03-16 05:58 G	42248076.56	42248076.75	42248076.94	0.0089	0.0005

Mercury	110959-06-12 09:20 G	42248164.70	42248164.89	42248165.08	0.0089	0.0005
Mercury	110959-09-08 12:56 G	42248252.85	42248253.04	42248253.23	0.0089	0.0014
Mercury	110959-12-05 16:18 G	42248341.00	42248341.18	42248341.37	0.0089	0.0025
Mercury	110960-03-02 19:39 G	42248429.16	42248429.32	42248429.51	0.0089	0.0035
Mercury	110960-05-29 23:15 G	42248517.31	42248517.47	42248517.65	0.0089	0.0044
Mercury	110960-08-26 02:37 G	42248605.48	42248605.61	42248605.78	0.0089	0.0055
Mercury	110960-11-22 06:13 G	42248693.64	42248693.76	42248693.91	0.0089	0.0065
Mercury	110961-02-18 09:49 G	42248781.82	42248781.91	42248782.03	0.0089	0.0075
Mercury	110961-05-17 13:25 G	42248870.01	42248870.06	42248870.13	0.0089	0.0084
Moon	110965-01-01 22:03 G	42250195.42	42250195.42	42250195.42	0.0089	0.0089
Earth	110966-01-04 11:58 G	42250562.86	42250563.00	42250563.18	0.0089	0.0070
Moon	110966-01-04 12:56 G	42250562.90	42250563.04	42250563.22	0.0089	0.0072 *
Venus	110966-12-30 18:13 G	42250923.19	42250923.26	42250923.35	0.0090	0.0083
Moon	110967-01-06 23:58 G	42250930.30	42250930.50	42250930.73	0.0090	0.0045
Earth	110967-01-07 00:27 G	42250930.31	42250930.52	42250930.74	0.0090	0.0047 *
Venus	110967-08-13 07:10 G	42251148.68	42251148.80	42251148.93	0.0090	0.0073
Moon	110968-01-09 11:01 G	42251297.72	42251297.96	42251298.22	0.0090	0.0027
Earth	110968-01-09 12:27 G	42251297.79	42251298.02	42251298.28	0.0090	0.0024 *
Venus	110968-03-25 20:08 G	42251374.19	42251374.34	42251374.50	0.0090	0.0063
Venus	110968-11-06 09:20 G	42251599.72	42251599.89	42251600.07	0.0090	0.0053
Earth	110969-01-11 00:42 G	42251665.27	42251665.53	42251665.78	0.0090	0.0002
Moon	110969-01-11 03:20 G	42251665.39	42251665.64	42251665.89	0.0090	0.0002 *
Venus	110969-06-19 22:03 G	42251825.24	42251825.42	42251825.62	0.0090	0.0043
Moon	110970-01-13 09:20 G	42252032.65	42252032.89	42252033.15	0.0090	0.0019
Earth	110970-01-13 12:27 G	42252032.78	42252033.02	42252033.28	0.0090	0.0021 *
Venus	110970-01-31 11:01 G	42252050.76	42252050.96	42252051.16	0.0090	0.0033
Venus	110970-09-13 23:44 G	42252276.29	42252276.49	42252276.71	0.0090	0.0023
Earth	110971-01-16 00:13 G	42252400.30	42252400.51	42252400.74	0.0090	0.0044
Moon	110971-01-16 04:03 G	42252400.46	42252400.67	42252400.89	0.0090	0.0047 *
Venus	110971-04-27 12:42 G	42252501.82	42252502.03	42252502.25	0.0090	0.0013

Venus	110971-12-09 01:39 G	42252727.35	42252727.57	42252727.78	0.0090	0.0003
Moon	110972-01-18 08:37 G	42252767.71	42252767.86	42252768.06	0.0090	0.0065
Earth	110972-01-18 11:44 G	42252767.85	42252767.99	42252768.19	0.0090	0.0067 *
Venus	110972-07-21 14:08 G	42252952.88	42252953.09	42252953.31	0.0090	0.0008
Earth	110973-01-19 23:44 G	42253135.47	42253135.49	42253135.53	0.0090	0.0089
Venus	110973-03-04 02:51 G	42253178.42	42253178.62	42253178.84	0.0090	0.0018
Venus	110973-10-15 15:34 G	42253403.96	42253404.15	42253404.37	0.0090	0.0028
Venus	110974-05-29 04:18 G	42253629.50	42253629.68	42253629.89	0.0090	0.0038
Venus	110975-01-09 16:46 G	42253855.04	42253855.20	42253855.40	0.0090	0.0048
Venus	110975-08-23 05:30 G	42254080.58	42254080.73	42254080.91	0.0090	0.0058
Venus	110976-04-04 18:42 G	42254306.14	42254306.28	42254306.42	0.0090	0.0067
Venus	110976-11-16 07:10 G	42254531.70	42254531.80	42254531.92	0.0090	0.0077
Venus	110977-06-29 19:54 G	42254757.29	42254757.33	42254757.39	0.0090	0.0087
Mars	111000-01-07 14:08 G	42262983.86	42262984.09	42262984.36	0.0089	0.0043

# 112TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 112th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	111001-12-02 00:42 G		42263677.32	42263677.53	42263677.77	0.0089	0.0055	
Mercury	111037-08-12 21:34 G		42276715.39	42276715.40	42276715.42	0.0088	0.0087	
Mercury	111037-11-08 23:15 G		42276803.41	42276803.47	42276803.52	0.0088	0.0081	
Mercury	111038-02-05 00:13 G		42276891.45	42276891.51	42276891.60	0.0088	0.0074	

Mercury	111038-05-04 01:39 G	42276979.50	42276979.57	42276979.67	0.0088	0.0067
Mercury	111038-07-31 03:06 G	42277067.54	42277067.63	42277067.74	0.0088	0.0060
Mercury	111038-10-27 04:32 G	42277155.59	42277155.69	42277155.81	0.0088	0.0054
Mercury	111039-01-23 06:13 G	42277243.64	42277243.76	42277243.87	0.0088	0.0047
Mercury	111039-04-21 07:25 G	42277331.69	42277331.81	42277331.93	0.0088	0.0040
Mercury	111039-07-18 08:51 G	42277419.74	42277419.87	42277420.00	0.0088	0.0033
Mercury	111039-10-14 10:03 G	42277507.80	42277507.92	42277508.06	0.0088	0.0027
Mercury	111040-01-10 11:30 G	42277595.85	42277595.98	42277596.12	0.0088	0.0020
Mercury	111040-04-07 12:56 G	42277683.91	42277684.04	42277684.17	0.0088	0.0013
Mercury	111040-07-04 14:22 G	42277771.96	42277772.10	42277772.23	0.0088	0.0006
Mercury	111040-09-30 15:34 G	42277860.02	42277860.15	42277860.29	0.0088	0.0002
Mercury	111040-12-27 17:01 G	42277948.08	42277948.21	42277948.34	0.0088	0.0007
Mercury	111041-03-25 18:27 G	42278036.13	42278036.27	42278036.40	0.0088	0.0014
Mercury	111041-06-21 19:39 G	42278124.19	42278124.32	42278124.45	0.0088	0.0021
Mercury	111041-09-17 20:51 G	42278212.25	42278212.37	42278212.51	0.0088	0.0028
Mercury	111041-12-14 22:18 G	42278300.31	42278300.43	42278300.56	0.0088	0.0034
Mercury	111042-03-12 23:30 G	42278388.37	42278388.48	42278388.61	0.0088	0.0041
Mercury	111042-06-09 00:56 G	42278476.43	42278476.54	42278476.66	0.0088	0.0048
Mercury	111042-09-05 02:22 G	42278564.50	42278564.60	42278564.71	0.0088	0.0054
Mercury	111042-12-02 03:34 G	42278652.56	42278652.65	42278652.75	0.0088	0.0061
Mercury	111043-02-28 05:01 G	42278740.63	42278740.71	42278740.80	0.0088	0.0067
Mercury	111043-05-27 06:13 G	42278828.70	42278828.76	42278828.84	0.0088	0.0074
Mercury	111043-08-23 07:25 G	42278916.77	42278916.81	42278916.88	0.0088	0.0081
Mercury	111043-11-19 08:51 G	42279004.86	42279004.87	42279004.89	0.0088	0.0087
Moon	111046-07-02 01:39 G	42279960.57	42279960.57	42279960.60	0.0088	0.0088
Moon	111047-07-04 05:58 G	42280327.63	42280327.75	42280327.93	0.0088	0.0071
Earth	111047-07-04 08:51 G	42280327.73	42280327.87	42280328.05	0.0088	0.0069 *
Venus	111048-07-03 05:58 G	42280692.68	42280692.75	42280692.82	0.0088	0.0083
Earth	111048-07-05 20:37 G	42280695.14	42280695.36	42280695.58	0.0088	0.0047
Moon	111048-07-05 22:32 G	42280695.23	42280695.44	42280695.69	0.0088	0.0045 *



Venus	111049-02-13 18:42 G	42280918.18	42280918.28	42280918.41	0.0088	0.0074
Moon	111049-07-08 06:56 G	42281062.56	42281062.79	42281063.03	0.0088	0.0028
Earth	111049-07-08 07:39 G	42281062.59	42281062.82	42281063.08	0.0088	0.0026 *
Venus	111049-09-27 08:08 G	42281143.69	42281143.84	42281143.99	0.0088	0.0064
Venus	111050-05-10 20:51 G	42281369.21	42281369.37	42281369.56	0.0088	0.0055
Moon	111050-07-10 18:13 G	42281429.99	42281430.26	42281430.53	0.0088	0.0003
Earth	111050-07-10 19:10 G	42281430.04	42281430.30	42281430.56	0.0088	0.0004 *
Venus	111050-12-22 10:18 G	42281594.74	42281594.93	42281595.12	0.0088	0.0045
Earth	111051-07-13 06:13 G	42281797.52	42281797.76	42281798.03	0.0088	0.0018
Moon	111051-07-13 07:54 G	42281797.59	42281797.83	42281798.09	0.0088	0.0016 *
Venus	111051-08-04 23:01 G	42281820.27	42281820.46	42281820.68	0.0088	0.0036
Venus	111052-03-17 12:27 G	42282045.81	42282046.02	42282046.24	0.0088	0.0026
Moon	111052-07-14 14:22 G	42282164.89	42282165.10	42282165.36	0.0088	0.0042
Earth	111052-07-14 17:58 G	42282165.02	42282165.25	42282165.48	0.0088	0.0039 *
Venus	111052-10-29 01:39 G	42282271.35	42282271.57	42282271.79	0.0088	0.0016
Venus	111053-06-11 14:51 G	42282496.90	42282497.12	42282497.35	0.0088	0.0006
Earth	111053-07-17 04:46 G	42282532.53	42282532.70	42282532.91	0.0088	0.0061
Moon	111053-07-17 08:08 G	42282532.68	42282532.84	42282533.06	0.0088	0.0060 *
Venus	111054-01-23 04:03 G	42282722.45	42282722.67	42282722.90	0.0088	0.0003
Moon	111054-07-19 12:42 G	42282899.99	42282900.03	42282900.12	0.0088	0.0085
Earth	111054-07-19 16:03 G	42282900.12	42282900.17	42282900.29	0.0088	0.0083 *
Venus	111054-09-05 17:15 G	42282948.00	42282948.22	42282948.44	0.0088	0.0013
Venus	111055-04-19 06:27 G	42283173.56	42283173.77	42283173.99	0.0088	0.0023
Venus	111055-11-30 19:39 G	42283399.12	42283399.32	42283399.54	0.0088	0.0033
Venus	111056-07-13 08:51 G	42283624.69	42283624.87	42283625.08	0.0088	0.0043
Venus	111057-02-23 22:18 G	42283850.26	42283850.43	42283850.62	0.0088	0.0052
Venus	111057-10-07 11:15 G	42284075.83	42284075.97	42284076.15	0.0088	0.0062
Venus	111058-05-21 00:42 G	42284301.42	42284301.53	42284301.68	0.0088	0.0072
Venus	111059-01-01 14:08 G	42284527.02	42284527.09	42284527.19	0.0088	0.0081
Mars	111083-09-05 04:46 G	42293539.36	42293539.70	42293540.05	0.0088	0.0009

Mercury	111121-10-10 21:20 G	42307454.38	42307454.39	42307454.41	0.0089	0.0089
Mercury	111122-01-07 00:27 G	42307542.45	42307542.52	42307542.62	0.0089	0.0079
Mercury	111122-04-05 04:03 G	42307630.56	42307630.67	42307630.80	0.0089	0.0069
Mercury	111122-07-02 07:39 G	42307718.68	42307718.82	42307718.96	0.0089	0.0060
Mercury	111122-09-28 10:46 G	42307806.81	42307806.95	42307807.12	0.0089	0.0050
Mercury	111122-12-25 14:22 G	42307894.94	42307895.10	42307895.28	0.0089	0.0040
Mercury	111123-03-23 17:58 G	42307983.07	42307983.25	42307983.43	0.0089	0.0030
Mercury	111123-06-19 21:34 G	42308071.21	42308071.40	42308071.58	0.0089	0.0021
Mercury	111123-09-16 00:56 G	42308159.35	42308159.54	42308159.73	0.0089	0.0011
Mercury	111123-12-13 04:32 G	42308247.50	42308247.69	42308247.88	0.0089	0.0002
Mercury	111124-03-10 07:54 G	42308335.64	42308335.83	42308336.02	0.0089	0.0009
Mercury	111124-06-06 11:15 G	42308423.79	42308423.97	42308424.16	0.0089	0.0019
Mercury	111124-09-02 14:51 G	42308511.94	42308512.12	42308512.30	0.0089	0.0029
Mercury	111124-11-29 18:27 G	42308600.10	42308600.27	42308600.44	0.0089	0.0039
Mercury	111125-02-25 21:49 G	42308688.26	42308688.41	42308688.58	0.0089	0.0049
Mercury	111125-05-25 01:25 G	42308776.42	42308776.56	42308776.71	0.0089	0.0059
Mercury	111125-08-21 04:46 G	42308864.59	42308864.70	42308864.83	0.0089	0.0069
Mercury	111125-11-17 08:22 G	42308952.77	42308952.85	42308952.95	0.0089	0.0079
Mercury	111126-02-13 11:58 G	42309040.99	42309041.00	42309041.03	0.0089	0.0089
Moon	111130-01-05 17:30 G	42310463.11	42310463.23	42310463.40	0.0090	0.0075
Earth	111130-01-05 20:37 G	42310463.26	42310463.36	42310463.50	0.0090	0.0079 *
Earth	111131-01-08 08:51 G	42310830.68	42310830.87	42310831.08	0.0090	0.0056
Moon	111131-01-08 12:13 G	42310830.85	42310831.01	42310831.22	0.0090	0.0061 *
Venus	111131-04-05 04:46 G	42310917.64	42310917.70	42310917.77	0.0090	0.0085
Venus	111131-11-16 17:44 G	42311143.13	42311143.24	42311143.37	0.0090	0.0075
Moon	111132-01-10 17:30 G	42311198.01	42311198.23	42311198.48	0.0090	0.0030
Earth	111132-01-10 20:37 G	42311198.14	42311198.36	42311198.62	0.0090	0.0034 *
Venus	111132-06-29 06:42 G	42311368.64	42311368.78	42311368.94	0.0090	0.0065
Earth	111133-01-12 08:51 G	42311565.62	42311565.87	42311566.13	0.0090	0.0011
Moon	111133-01-12 11:58 G	42311565.74	42311566.00	42311566.26	0.0090	0.0015 *

Venus	111133-02-09 19:39 G	42311594.16	42311594.32	42311594.50	0.0090	0.0055
Venus	111133-09-23 08:37 G	42311819.68	42311819.86	42311820.05	0.0090	0.0045
Moon	111134-01-14 19:10 G	42311933.06	42311933.30	42311933.55	0.0090	0.0017
Earth	111134-01-14 20:51 G	42311933.13	42311933.37	42311933.64	0.0090	0.0013 *
Venus	111134-05-06 21:34 G	42312045.20	42312045.40	42312045.60	0.0090	0.0035
Venus	111134-12-18 10:32 G	42312270.73	42312270.94	42312271.15	0.0090	0.0025
Moon	111135-01-17 08:51 G	42312300.64	42312300.87	42312301.14	0.0090	0.0032
Earth	111135-01-17 08:37 G	42312300.65	42312300.86	42312301.12	0.0090	0.0036 *
Venus	111135-07-31 23:15 G	42312496.26	42312496.47	42312496.69	0.0090	0.0015
Earth	111136-01-19 20:37 G	42312668.18	42312668.36	42312668.57	0.0090	0.0058
Moon	111136-01-19 21:20 G	42312668.22	42312668.39	42312668.58	0.0090	0.0062 *
Venus	111136-03-13 12:13 G	42312721.80	42312722.01	42312722.23	0.0090	0.0005
Venus	111136-10-25 01:10 G	42312947.33	42312947.55	42312947.77	0.0090	0.0005
Moon	111137-01-21 06:13 G	42313035.65	42313035.76	42313035.92	0.0090	0.0076
Earth	111137-01-21 08:08 G	42313035.76	42313035.84	42313035.98	0.0090	0.0081 *
Venus	111137-06-07 13:54 G	42313172.87	42313173.08	42313173.30	0.0090	0.0015
Venus	111138-01-19 02:22 G	42313398.40	42313398.60	42313398.82	0.0090	0.0026
Venus	111138-09-01 15:06 G	42313623.94	42313624.13	42313624.34	0.0090	0.0036
Venus	111139-04-15 03:34 G	42313849.48	42313849.65	42313849.86	0.0090	0.0046
Venus	111139-11-26 16:32 G	42314075.04	42314075.19	42314075.38	0.0090	0.0056
Venus	111140-07-09 05:30 G	42314300.59	42314300.73	42314300.88	0.0090	0.0065
Venus	111141-02-19 17:58 G	42314526.15	42314526.25	42314526.38	0.0090	0.0075
Venus	111141-10-03 06:42 G	42314751.72	42314751.78	42314751.86	0.0090	0.0085
Mars	111163-08-25 04:46 G	42322747.58	42322747.70	42322747.84	0.0089	0.0079
Mars	111165-07-18 16:18 G	42323440.91	42323441.18	42323441.47	0.0089	0.0019
Jupiter	111171-08-28 11:44 G	42325672.62	42325672.99	42325673.45	0.0089	0.0054
Mercury	111202-05-10 21:20 G	42336886.36	42336886.39	42336886.43	0.0088	0.0084
Mercury	111202-08-06 22:32 G	42336974.39	42336974.44	42336974.51	0.0088	0.0078
Mercury	111202-11-02 23:58 G	42337062.43	42337062.50	42337062.59	0.0088	0.0071
Mercury	111203-01-30 01:25 G	42337150.47	42337150.56	42337150.66	0.0088	0.0064

Mercury	111203-04-28 02:51 G	42337238.52	42337238.62	42337238.73	0.0088	0.0057
Mercury	111203-07-25 04:18 G	42337326.57	42337326.68	42337326.79	0.0088	0.0050
Mercury	111203-10-21 05:30 G	42337414.62	42337414.73	42337414.86	0.0088	0.0044
Mercury	111204-01-17 06:56 G	42337502.67	42337502.79	42337502.92	0.0088	0.0037
Mercury	111204-04-14 08:22 G	42337590.73	42337590.85	42337590.98	0.0088	0.0030
Mercury	111204-07-11 09:49 G	42337678.78	42337678.91	42337679.04	0.0088	0.0023
Mercury	111204-10-07 11:01 G	42337766.83	42337766.96	42337767.10	0.0088	0.0017
Mercury	111205-01-03 12:27 G	42337854.89	42337855.02	42337855.16	0.0088	0.0010
Mercury	111205-04-01 13:54 G	42337942.94	42337943.08	42337943.21	0.0088	0.0003
Mercury	111205-06-28 15:20 G	42338031.00	42338031.14	42338031.27	0.0088	0.0004
Mercury	111205-09-24 16:32 G	42338119.06	42338119.19	42338119.33	0.0088	0.0010
Mercury	111205-12-21 17:58 G	42338207.12	42338207.25	42338207.38	0.0088	0.0017
Mercury	111206-03-19 19:10 G	42338295.18	42338295.30	42338295.43	0.0088	0.0024
Mercury	111206-06-15 20:37 G	42338383.24	42338383.36	42338383.49	0.0088	0.0030
Mercury	111206-09-11 21:49 G	42338471.30	42338471.41	42338471.54	0.0088	0.0037
Mercury	111206-12-08 23:15 G	42338559.36	42338559.47	42338559.59	0.0088	0.0043
Mercury	111207-03-07 00:27 G	42338647.42	42338647.52	42338647.64	0.0088	0.0050
Mercury	111207-06-03 01:39 G	42338735.48	42338735.57	42338735.69	0.0088	0.0057
Mercury	111207-08-30 03:20 G	42338823.55	42338823.64	42338823.73	0.0088	0.0063
Mercury	111207-11-26 04:32 G	42338911.62	42338911.69	42338911.78	0.0088	0.0070
Mercury	111208-02-22 05:58 G	42338999.69	42338999.75	42338999.82	0.0088	0.0076
Mercury	111208-05-20 07:10 G	42339087.76	42339087.80	42339087.85	0.0088	0.0083
Earth	111211-07-04 17:44 G	42340228.13	42340228.24	42340228.37	0.0088	0.0077
Moon	111211-07-04 19:10 G	42340228.18	42340228.30	42340228.45	0.0088	0.0074 *
Moon	111212-07-06 02:08 G	42340595.42	42340595.59	42340595.80	0.0088	0.0060
Earth	111212-07-06 04:46 G	42340595.52	42340595.70	42340595.92	0.0088	0.0056 *
Venus	111212-10-05 15:34 G	42340687.11	42340687.15	42340687.22	0.0088	0.0085
Venus	111213-05-19 04:32 G	42340912.60	42340912.69	42340912.82	0.0088	0.0076
Earth	111213-07-08 16:18 G	42340962.95	42340963.18	42340963.43	0.0088	0.0034
Moon	111213-07-08 19:39 G	42340963.10	42340963.32	42340963.58	0.0088	0.0031 *

Venus	111213-12-30 17:44 G	42341138.11	42341138.24	42341138.40	0.0088	0.0066
Moon	111214-07-11 00:27 G	42341330.27	42341330.52	42341330.78	0.0088	0.0016
Earth	111214-07-11 03:49 G	42341330.41	42341330.66	42341330.92	0.0088	0.0012 *
Venus	111214-08-13 06:42 G	42341363.63	42341363.78	42341363.97	0.0088	0.0057
Venus	111215-03-26 19:54 G	42341589.16	42341589.33	42341589.54	0.0088	0.0047
Earth	111215-07-13 15:06 G	42341697.88	42341698.13	42341698.39	0.0088	0.0009
Moon	111215-07-13 18:27 G	42341698.02	42341698.27	42341698.54	0.0088	0.0014 *
Venus	111215-11-07 09:20 G	42341814.69	42341814.89	42341815.10	0.0088	0.0037
Venus	111216-06-19 22:18 G	42342040.23	42342040.43	42342040.65	0.0088	0.0028
Moon	111216-07-14 23:58 G	42342065.28	42342065.50	42342065.76	0.0088	0.0028
Earth	111216-07-15 02:37 G	42342065.37	42342065.61	42342065.85	0.0088	0.0031 *
Venus	111217-01-31 11:30 G	42342265.77	42342265.98	42342266.21	0.0088	0.0018
Earth	111217-07-17 13:39 G	42342432.88	42342433.07	42342433.29	0.0088	0.0053
Moon	111217-07-17 15:06 G	42342432.93	42342433.13	42342433.35	0.0088	0.0056 *
Venus	111217-09-14 00:42 G	42342491.31	42342491.53	42342491.76	0.0088	0.0008
Venus	111218-04-27 14:08 G	42342716.86	42342717.09	42342717.31	0.0088	0.0002
Moon	111218-07-20 00:27 G	42342800.40	42342800.52	42342800.70	0.0088	0.0071
Earth	111218-07-20 00:42 G	42342800.42	42342800.53	42342800.69	0.0088	0.0075 *
Venus	111218-12-09 03:06 G	42342942.42	42342942.63	42342942.86	0.0088	0.0012
Venus	111219-07-22 16:32 G	42343167.97	42343168.19	42343168.40	0.0088	0.0021
Venus	111220-03-04 05:30 G	42343393.53	42343393.73	42343393.95	0.0088	0.0031
Venus	111220-10-15 18:42 G	42343619.09	42343619.28	42343619.49	0.0088	0.0041
Venus	111221-05-29 07:54 G	42343844.67	42343844.83	42343845.03	0.0088	0.0051
Venus	111222-01-09 21:20 G	42344070.24	42344070.39	42344070.57	0.0088	0.0060
Venus	111222-08-23 10:32 G	42344295.82	42344295.94	42344296.09	0.0088	0.0070
Venus	111223-04-05 23:30 G	42344521.42	42344521.48	42344521.61	0.0088	0.0080
Mars	111247-04-19 10:03 G	42353300.68	42353300.92	42353301.23	0.0088	0.0053
Mars	111249-03-15 23:15 G	42353997.24	42353997.47	42353997.72	0.0088	0.0063
Mercury	111286-07-07 19:39 G	42367625.28	42367625.32	42367625.39	0.0089	0.0084
Mercury	111286-10-03 23:15 G	42367713.37	42367713.47	42367713.58	0.0089	0.0075

Mercury	111286-12-31 02:22 G	42367801.49	42367801.60	42367801.75	0.0089	0.0065
Mercury	111287-03-29 05:58 G	42367889.61	42367889.75	42367889.91	0.0089	0.0055
Mercury	111287-06-25 09:34 G	42367977.74	42367977.90	42367978.07	0.0089	0.0046
Mercury	111287-09-21 13:10 G	42368065.88	42368066.05	42368066.22	0.0089	0.0036
Mercury	111287-12-18 16:18 G	42368154.01	42368154.18	42368154.37	0.0089	0.0027
Mercury	111288-03-15 19:54 G	42368242.15	42368242.33	42368242.52	0.0089	0.0016
Mercury	111288-06-11 23:30 G	42368330.29	42368330.48	42368330.67	0.0089	0.0006
Mercury	111288-09-08 03:06 G	42368418.44	42368418.63	42368418.82	0.0089	0.0004
Mercury	111288-12-05 06:27 G	42368506.58	42368506.77	42368506.96	0.0089	0.0013
Mercury	111289-03-03 09:49 G	42368594.73	42368594.91	42368595.10	0.0089	0.0024
Mercury	111289-05-30 13:25 G	42368682.89	42368683.06	42368683.24	0.0089	0.0033
Mercury	111289-08-26 16:46 G	42368771.04	42368771.20	42368771.38	0.0089	0.0044
Mercury	111289-11-22 20:22 G	42368859.21	42368859.35	42368859.51	0.0089	0.0053
Mercury	111290-02-18 23:44 G	42368947.37	42368947.49	42368947.64	0.0089	0.0064
Mercury	111290-05-18 03:20 G	42369035.55	42369035.64	42369035.76	0.0089	0.0073
Mercury	111290-08-14 06:42 G	42369123.74	42369123.78	42369123.87	0.0089	0.0084
Earth	111294-01-05 05:44 G	42370363.72	42370363.74	42370363.83	0.0089	0.0088
Earth	111295-01-07 18:13 G	42370731.09	42370731.26	42370731.45	0.0090	0.0065
Moon	111295-01-07 18:42 G	42370731.09	42370731.28	42370731.48	0.0090	0.0060 *
Venus	111295-07-07 15:34 G	42370912.12	42370912.15	42370912.23	0.0090	0.0087
Earth	111296-01-10 06:13 G	42371098.54	42371098.76	42371098.99	0.0090	0.0042
Moon	111296-01-10 06:27 G	42371098.58	42371098.77	42371099.00	0.0090	0.0047 *
Venus	111296-02-18 04:32 G	42371137.60	42371137.69	42371137.82	0.0090	0.0077
Venus	111296-09-30 17:30 G	42371363.11	42371363.23	42371363.39	0.0090	0.0067
Moon	111297-01-11 16:32 G	42371465.93	42371466.19	42371466.46	0.0090	0.0014
Earth	111297-01-11 18:13 G	42371466.02	42371466.26	42371466.52	0.0090	0.0019 *
Venus	111297-05-14 06:42 G	42371588.62	42371588.78	42371588.96	0.0090	0.0057
Venus	111297-12-25 19:25 G	42371814.14	42371814.31	42371814.51	0.0090	0.0047
Earth	111298-01-14 06:27 G	42371833.51	42371833.77	42371834.02	0.0090	0.0004
Moon	111298-01-14 09:20 G	42371833.64	42371833.89	42371834.14	0.0090	0.0002 *

Venus	111298-08-08 08:22 G	42372039.66	42372039.85	42372040.06	0.0090	0.0037
Moon	111299-01-16 15:06 G	42372200.89	42372201.13	42372201.37	0.0090	0.0031
Earth	111299-01-16 17:58 G	42372201.02	42372201.25	42372201.51	0.0090	0.0027 *
Venus	111299-03-21 21:20 G	42372265.19	42372265.39	42372265.61	0.0090	0.0027
Venus	111299-11-02 10:32 G	42372490.73	42372490.94	42372491.16	0.0090	0.0017
Earth	111300-01-19 05:44 G	42372568.55	42372568.74	42372568.97	0.0090	0.0050
Moon	111300-01-19 09:20 G	42372568.69	42372568.89	42372569.14	0.0090	0.0045 *
Venus	111300-06-15 23:30 G	42372716.26	42372716.48	42372716.70	0.0090	0.0006
Moon	111301-01-21 14:51 G	42372936.01	42372936.12	42372936.27	0.0090	0.0077
Earth	111301-01-21 17:44 G	42372936.11	42372936.24	42372936.42	0.0090	0.0072 *
Venus	111301-01-27 12:13 G	42372941.80	42372942.01	42372942.23	0.0090	0.0004
Venus	111301-09-10 00:56 G	42373167.33	42373167.54	42373167.76	0.0090	0.0014
Venus	111302-04-23 13:39 G	42373392.87	42373393.07	42373393.29	0.0090	0.0024
Venus	111302-12-05 02:37 G	42373618.42	42373618.61	42373618.82	0.0090	0.0034
Venus	111303-07-18 15:06 G	42373843.96	42373844.13	42373844.34	0.0090	0.0044
Venus	111304-02-29 03:49 G	42374069.50	42374069.66	42374069.85	0.0090	0.0054
Venus	111304-10-11 16:32 G	42374295.05	42374295.19	42374295.36	0.0090	0.0064
Venus	111305-05-25 05:01 G	42374520.61	42374520.71	42374520.86	0.0090	0.0074
Venus	111306-01-05 17:58 G	42374746.18	42374746.25	42374746.34	0.0090	0.0083
Mars	111329-03-04 08:37 G	42383204.59	42383204.86	42383205.15	0.0089	0.0018
Mars	111331-01-26 19:39 G	42383898.21	42383898.32	42383898.46	0.0089	0.0080
Jupiter	111337-10-22 15:20 G	42386358.62	42386359.14	42386359.66	0.0089	0.0000
Mercury	111366-11-09 19:39 G	42396969.32	42396969.32	42396969.32	0.0088	0.0088
Mercury	111367-02-05 20:51 G	42397057.33	42397057.37	42397057.43	0.0088	0.0081
Mercury	111367-05-04 22:18 G	42397145.37	42397145.43	42397145.51	0.0088	0.0075
Mercury	111367-07-31 23:58 G	42397233.41	42397233.50	42397233.58	0.0088	0.0068
Mercury	111367-10-28 00:56 G	42397321.46	42397321.54	42397321.65	0.0088	0.0061
Mercury	111368-01-24 02:22 G	42397409.51	42397409.60	42397409.72	0.0088	0.0054
Mercury	111368-04-21 03:49 G	42397497.56	42397497.66	42397497.78	0.0088	0.0048
Mercury	111368-07-18 05:30 G	42397585.61	42397585.73	42397585.85	0.0088	0.0040

Mercury	111368-10-14 06:42 G	42397673.66	42397673.78	42397673.91	0.0088	0.0034
Mercury	111369-01-10 08:08 G	42397761.71	42397761.84	42397761.97	0.0088	0.0027
Mercury	111369-04-08 09:34 G	42397849.77	42397849.90	42397850.03	0.0088	0.0020
Mercury	111369-07-05 10:46 G	42397937.82	42397937.95	42397938.09	0.0088	0.0014
Mercury	111369-10-01 12:13 G	42398025.88	42398026.01	42398026.15	0.0088	0.0007
Mercury	111369-12-28 13:39 G	42398113.93	42398114.07	42398114.20	0.0088	0.0000
Mercury	111370-03-26 15:06 G	42398201.99	42398202.13	42398202.26	0.0088	0.0007
Mercury	111370-06-22 16:18 G	42398290.05	42398290.18	42398290.32	0.0088	0.0013
Mercury	111370-09-18 17:44 G	42398378.11	42398378.24	42398378.37	0.0088	0.0020
Mercury	111370-12-15 18:56 G	42398466.17	42398466.29	42398466.42	0.0088	0.0027
Mercury	111371-03-13 20:22 G	42398554.23	42398554.35	42398554.48	0.0088	0.0033
Mercury	111371-06-09 21:34 G	42398642.29	42398642.40	42398642.53	0.0088	0.0040
Mercury	111371-09-05 22:46 G	42398730.35	42398730.45	42398730.58	0.0088	0.0047
Mercury	111371-12-03 00:27 G	42398818.41	42398818.52	42398818.63	0.0088	0.0053
Mercury	111372-02-29 01:39 G	42398906.48	42398906.57	42398906.67	0.0088	0.0060
Mercury	111372-05-27 03:06 G	42398994.54	42398994.63	42398994.72	0.0088	0.0066
Mercury	111372-08-23 04:18 G	42399082.61	42399082.68	42399082.76	0.0088	0.0073
Mercury	111372-11-19 05:44 G	42399170.69	42399170.74	42399170.80	0.0088	0.0079
Mercury	111373-02-15 06:56 G	42399258.77	42399258.79	42399258.82	0.0088	0.0086
Earth	111375-07-05 02:22 G	42400128.57	42400128.60	42400128.69	0.0088	0.0086
Moon	111376-07-06 11:44 G	42400495.81	42400495.99	42400496.18	0.0088	0.0059
Earth	111376-07-06 14:08 G	42400495.93	42400496.09	42400496.28	0.0088	0.0064 *
Venus	111377-01-08 02:08 G	42400681.56	42400681.59	42400681.63	0.0088	0.0086
Earth	111377-07-09 01:39 G	42400863.35	42400863.57	42400863.80	0.0088	0.0042
Moon	111377-07-09 02:51 G	42400863.41	42400863.62	42400863.87	0.0088	0.0047 *
Venus	111377-08-21 14:51 G	42400907.03	42400907.12	42400907.25	0.0088	0.0077
Venus	111378-04-04 04:32 G	42401132.55	42401132.69	42401132.83	0.0088	0.0067
Moon	111378-07-11 12:27 G	42401230.77	42401231.02	42401231.27	0.0088	0.0016
Earth	111378-07-11 12:42 G	42401230.79	42401231.03	42401231.30	0.0088	0.0021 *
Venus	111378-11-15 17:15 G	42401358.07	42401358.22	42401358.40	0.0088	0.0058



Venus	111379-06-29 06:27 G	42401583.59	42401583.77	42401583.96	0.0088	0.0048
Moon	111379-07-13 23:15 G	42401598.20	42401598.47	42401598.74	0.0088	0.0003
Earth	111379-07-14 00:27 G	42401598.26	42401598.52	42401598.78	0.0088	0.0001 *
Venus	111380-02-09 19:25 G	42401809.12	42401809.31	42401809.52	0.0088	0.0039
Earth	111380-07-15 11:44 G	42401965.74	42401965.99	42401966.24	0.0088	0.0023
Moon	111380-07-15 13:39 G	42401965.85	42401966.07	42401966.33	0.0088	0.0028 *
Venus	111380-09-22 08:37 G	42402034.66	42402034.86	42402035.08	0.0088	0.0029
Venus	111381-05-05 21:49 G	42402260.20	42402260.41	42402260.64	0.0088	0.0020
Moon	111381-07-17 19:54 G	42402333.10	42402333.33	42402333.57	0.0088	0.0040
Earth	111381-07-17 22:46 G	42402333.24	42402333.45	42402333.69	0.0088	0.0045 *
Venus	111381-12-17 11:01 G	42402485.74	42402485.96	42402486.19	0.0088	0.0010
Earth	111382-07-20 09:34 G	42402700.76	42402700.90	42402701.10	0.0088	0.0067
Moon	111382-07-20 13:25 G	42402700.94	42402701.06	42402701.24	0.0088	0.0072 *
Venus	111382-07-31 00:13 G	42402711.29	42402711.51	42402711.73	0.0088	0.0000
Venus	111383-03-13 13:10 G	42402936.83	42402937.05	42402937.28	0.0088	0.0010
Moon	111383-07-22 17:44 G	42403068.20	42403068.24	42403068.35	0.0088	0.0084
Venus	111383-10-25 02:22 G	42403162.39	42403162.60	42403162.82	0.0088	0.0019
Venus	111384-06-06 15:49 G	42403387.95	42403388.16	42403388.37	0.0088	0.0029
Venus	111385-01-18 04:46 G	42403613.51	42403613.70	42403613.91	0.0088	0.0039
Venus	111385-08-31 17:44 G	42403839.07	42403839.24	42403839.44	0.0088	0.0049
Venus	111386-04-14 07:25 G	42404064.65	42404064.81	42404064.98	0.0088	0.0058
Venus	111386-11-25 20:22 G	42404290.23	42404290.35	42404290.51	0.0088	0.0068
Venus	111387-07-09 09:34 G	42404515.82	42404515.90	42404516.03	0.0088	0.0078
Venus	111388-02-19 23:01 G	42404741.45	42404741.46	42404741.50	0.0088	0.0087
Mars	111412-10-29 06:13 G	42413758.43	42413758.76	42413759.11	0.0088	0.0021
Mercury	111451-01-07 15:06 G	42427708.13	42427708.13	42427708.15	0.0089	0.0089
Mercury	111451-04-05 18:27 G	42427796.20	42427796.27	42427796.36	0.0089	0.0080
Mercury	111451-07-02 21:34 G	42427884.31	42427884.40	42427884.54	0.0089	0.0071
Mercury	111451-09-29 01:10 G	42427972.43	42427972.55	42427972.70	0.0089	0.0061
Mercury	111451-12-26 04:46 G	42428060.55	42428060.70	42428060.86	0.0089	0.0051

Mercury	111452-03-23 07:54 G	42428148.68	42428148.83	42428149.02	0.0089	0.0042
Mercury	111452-06-19 11:30 G	42428236.81	42428236.98	42428237.17	0.0089	0.0032
Mercury	111452-09-15 15:06 G	42428324.95	42428325.13	42428325.32	0.0089	0.0022
Mercury	111452-12-12 18:42 G	42428413.09	42428413.28	42428413.47	0.0089	0.0012
Mercury	111453-03-10 22:03 G	42428501.23	42428501.42	42428501.61	0.0089	0.0003
Mercury	111453-06-07 01:39 G	42428589.38	42428589.57	42428589.76	0.0089	0.0008
Mercury	111453-09-03 05:01 G	42428677.53	42428677.71	42428677.90	0.0089	0.0018
Mercury	111453-11-30 08:22 G	42428765.68	42428765.85	42428766.04	0.0089	0.0028
Mercury	111454-02-26 12:13 G	42428853.83	42428854.01	42428854.18	0.0089	0.0038
Mercury	111454-05-25 15:34 G	42428941.99	42428942.15	42428942.31	0.0089	0.0048
Mercury	111454-08-21 19:10 G	42429030.16	42429030.30	42429030.45	0.0089	0.0058
Mercury	111454-11-17 22:32 G	42429118.32	42429118.44	42429118.57	0.0089	0.0068
Mercury	111455-02-14 02:08 G	42429206.50	42429206.59	42429206.69	0.0089	0.0078
Mercury	111455-05-13 05:44 G	42429294.71	42429294.74	42429294.78	0.0089	0.0088
Moon	111459-01-08 23:58 G	42430631.40	42430631.50	42430631.65	0.0090	0.0078
Earth	111459-01-09 03:20 G	42430631.52	42430631.64	42430631.81	0.0090	0.0074 *
Venus	111459-10-11 02:37 G	42430906.60	42430906.61	42430906.67	0.0090	0.0089
Earth	111460-01-11 15:20 G	42430998.95	42430999.14	42430999.37	0.0090	0.0051
Moon	111460-01-11 19:10 G	42430999.09	42430999.30	42430999.52	0.0090	0.0047 *
Venus	111460-05-23 15:34 G	42431132.07	42431132.15	42431132.28	0.0090	0.0079
Venus	111461-01-04 04:32 G	42431357.57	42431357.69	42431357.85	0.0090	0.0069
Moon	111461-01-13 00:13 G	42431366.29	42431366.51	42431366.76	0.0090	0.0033
Earth	111461-01-13 03:49 G	42431366.42	42431366.66	42431366.90	0.0090	0.0028 *
Venus	111461-08-17 17:30 G	42431583.08	42431583.23	42431583.41	0.0090	0.0059
Earth	111462-01-15 15:34 G	42431733.90	42431734.15	42431734.41	0.0090	0.0006
Moon	111462-01-15 18:13 G	42431734.00	42431734.26	42431734.53	0.0090	0.0002 *
Venus	111462-03-31 06:27 G	42431808.60	42431808.77	42431808.97	0.0090	0.0049
Venus	111462-11-11 19:25 G	42432034.13	42432034.31	42432034.52	0.0090	0.0039
Moon	111463-01-18 01:39 G	42432101.33	42432101.57	42432101.82	0.0090	0.0014
Earth	111463-01-18 03:34 G	42432101.40	42432101.65	42432101.90	0.0090	0.0018 *

Venus	111463-06-25 08:22 G	42432259.66	42432259.85	42432260.07	0.0090	0.0029
Earth	111464-01-20 15:06 G	42432468.92	42432469.13	42432469.38	0.0090	0.0041
Moon	111464-01-20 15:20 G	42432468.92	42432469.14	42432469.38	0.0090	0.0045 *
Venus	111464-02-05 21:20 G	42432485.19	42432485.39	42432485.61	0.0090	0.0019
Venus	111464-09-18 10:18 G	42432710.72	42432710.93	42432711.15	0.0090	0.0009
Earth	111465-01-22 02:51 G	42432836.47	42432836.62	42432836.83	0.0090	0.0064
Moon	111465-01-22 04:18 G	42432836.51	42432836.68	42432836.88	0.0090	0.0060 *
Venus	111465-05-01 23:15 G	42432936.26	42432936.47	42432936.69	0.0090	0.0002
Venus	111465-12-13 12:13 G	42433161.80	42433162.01	42433162.23	0.0090	0.0012
Moon	111466-01-24 13:10 G	42433204.05	42433204.05	42433204.08	0.0090	0.0090
Earth	111466-01-24 15:06 G	42433204.08	42433204.13	42433204.22	0.0090	0.0086 *
Venus	111466-07-27 00:56 G	42433387.34	42433387.54	42433387.76	0.0090	0.0022
Venus	111467-03-09 13:54 G	42433612.88	42433613.08	42433613.28	0.0090	0.0032
Venus	111467-10-21 02:37 G	42433838.43	42433838.61	42433838.81	0.0090	0.0042
Venus	111468-06-02 15:20 G	42434063.98	42434064.14	42434064.33	0.0090	0.0052
Venus	111469-01-14 04:03 G	42434289.53	42434289.67	42434289.84	0.0090	0.0062
Venus	111469-08-27 16:32 G	42434515.08	42434515.19	42434515.34	0.0090	0.0072
Venus	111470-04-10 05:15 G	42434740.65	42434740.72	42434740.83	0.0090	0.0082
Mars	111492-10-19 00:42 G	42442968.33	42442968.53	42442968.78	0.0089	0.0055
Mars	111494-09-12 12:13 G	42443661.77	42443662.01	42443662.26	0.0089	0.0044
Jupiter	111503-12-22 08:08 G	42447048.47	42447048.84	42447049.31	0.0089	0.0052
Mercury	111531-08-08 18:56 G	42457140.27	42457140.29	42457140.34	0.0088	0.0086
Mercury	111531-11-04 20:37 G	42457228.31	42457228.36	42457228.43	0.0088	0.0078
Mercury	111532-01-31 22:03 G	42457316.35	42457316.42	42457316.50	0.0088	0.0071
Mercury	111532-04-28 23:30 G	42457404.39	42457404.48	42457404.58	0.0088	0.0064
Mercury	111532-07-26 00:56 G	42457492.44	42457492.54	42457492.64	0.0088	0.0058
Mercury	111532-10-22 02:08 G	42457580.49	42457580.59	42457580.71	0.0088	0.0051
Mercury	111533-01-18 03:34 G	42457668.54	42457668.65	42457668.78	0.0088	0.0044
Mercury	111533-04-16 05:01 G	42457756.59	42457756.71	42457756.84	0.0088	0.0037
Mercury	111533-07-13 06:27 G	42457844.65	42457844.77	42457844.90	0.0088	0.0030

Mercury	111533-10-09 07:39 G	42457932.70	42457932.82	42457932.96	0.0088	0.0025
Mercury	111534-01-05 09:20 G	42458020.75	42458020.89	42458021.02	0.0088	0.0017
Mercury	111534-04-03 10:32 G	42458108.81	42458108.94	42458109.08	0.0088	0.0011
Mercury	111534-06-30 11:58 G	42458196.87	42458197.00	42458197.14	0.0088	0.0004
Mercury	111534-09-26 13:25 G	42458284.92	42458285.06	42458285.19	0.0088	0.0003
Mercury	111534-12-23 14:51 G	42458372.98	42458373.12	42458373.25	0.0088	0.0010
Mercury	111535-03-21 16:03 G	42458461.04	42458461.17	42458461.31	0.0088	0.0017
Mercury	111535-06-17 17:30 G	42458549.10	42458549.23	42458549.36	0.0088	0.0023
Mercury	111535-09-13 18:42 G	42458637.16	42458637.28	42458637.41	0.0088	0.0030
Mercury	111535-12-10 19:54 G	42458725.22	42458725.33	42458725.46	0.0088	0.0037
Mercury	111536-03-07 21:20 G	42458813.28	42458813.39	42458813.51	0.0088	0.0043
Mercury	111536-06-03 22:46 G	42458901.34	42458901.45	42458901.56	0.0088	0.0050
Mercury	111536-08-31 00:13 G	42458989.41	42458989.51	42458989.61	0.0088	0.0056
Mercury	111536-11-27 01:25 G	42459077.47	42459077.56	42459077.66	0.0088	0.0063
Mercury	111537-02-23 02:51 G	42459165.54	42459165.62	42459165.70	0.0088	0.0069
Mercury	111537-05-22 04:03 G	42459253.61	42459253.67	42459253.74	0.0088	0.0076
Mercury	111537-08-18 05:15 G	42459341.69	42459341.72	42459341.77	0.0088	0.0083
Earth	111540-07-07 23:30 G	42460396.35	42460396.48	42460396.64	0.0088	0.0072
Moon	111540-07-08 01:10 G	42460396.46	42460396.55	42460396.70	0.0088	0.0077 *
Venus	111541-04-13 12:27 G	42460676.02	42460676.02	42460676.05	0.0088	0.0088
Moon	111541-07-10 08:22 G	42460763.63	42460763.85	42460764.08	0.0088	0.0046
Earth	111541-07-10 10:32 G	42460763.76	42460763.94	42460764.18	0.0088	0.0051 *
Venus	111541-11-25 01:39 G	42460901.48	42460901.57	42460901.68	0.0088	0.0078
Venus	111542-07-08 14:37 G	42461126.99	42461127.11	42461127.26	0.0088	0.0069
Earth	111542-07-12 22:18 G	42461131.20	42461131.43	42461131.69	0.0088	0.0029
Moon	111542-07-13 02:08 G	42461131.36	42461131.59	42461131.83	0.0088	0.0033 *
Venus	111543-02-19 03:49 G	42461352.51	42461352.66	42461352.83	0.0088	0.0059
Moon	111543-07-15 06:42 G	42461498.52	42461498.78	42461499.04	0.0088	0.0002
Earth	111543-07-15 10:03 G	42461498.67	42461498.92	42461499.19	0.0088	0.0007 *
Venus	111543-10-02 16:46 G	42461578.03	42461578.20	42461578.40	0.0088	0.0050

Venus	111544-05-15 06:13 G	42461803.57	42461803.76	42461803.97	0.0088	0.0040
Earth	111544-07-16 21:20 G	42461866.14	42461866.39	42461866.65	0.0088	0.0015
Moon	111544-07-17 00:42 G	42461866.27	42461866.53	42461866.80	0.0088	0.0011 *
Venus	111544-12-26 19:39 G	42462029.11	42462029.32	42462029.53	0.0088	0.0030
Moon	111545-07-19 06:27 G	42462233.55	42462233.77	42462234.00	0.0088	0.0041
Earth	111545-07-19 08:37 G	42462233.64	42462233.86	42462234.11	0.0088	0.0037 *
Venus	111545-08-09 08:22 G	42462254.64	42462254.85	42462255.08	0.0088	0.0021
Venus	111546-03-22 21:49 G	42462480.19	42462480.41	42462480.63	0.0088	0.0011
Earth	111546-07-21 19:54 G	42462601.16	42462601.33	42462601.54	0.0088	0.0059
Moon	111546-07-21 20:51 G	42462601.18	42462601.37	42462601.60	0.0088	0.0055 *
Venus	111546-11-03 11:01 G	42462705.73	42462705.96	42462706.18	0.0088	0.0002
Venus	111547-06-16 23:58 G	42462931.28	42462931.50	42462931.73	0.0088	0.0009
Earth	111547-07-24 07:39 G	42462968.72	42462968.82	42462968.93	0.0088	0.0080
Moon	111547-07-24 07:25 G	42462968.75	42462968.81	42462968.89	0.0088	0.0084 *
Venus	111548-01-28 13:10 G	42463156.83	42463157.05	42463157.27	0.0088	0.0018
Venus	111548-09-10 02:08 G	42463382.39	42463382.59	42463382.81	0.0088	0.0028
Venus	111549-04-23 15:20 G	42463607.95	42463608.14	42463608.35	0.0088	0.0038
Venus	111549-12-05 04:46 G	42463833.51	42463833.70	42463833.89	0.0088	0.0047
Venus	111550-07-18 17:44 G	42464059.08	42464059.24	42464059.42	0.0088	0.0057
Venus	111551-03-01 06:42 G	42464284.66	42464284.78	42464284.95	0.0088	0.0067
Uranus	111551-08-17 09:20 G	42464453.48	42464453.89	42464454.45	0.0088	0.0072
Venus	111551-10-12 20:08 G	42464510.24	42464510.34	42464510.46	0.0088	0.0076
Venus	111552-05-25 09:20 G	42464735.87	42464735.89	42464735.96	0.0088	0.0086
Mars	111576-06-12 13:54 G	42473519.76	42473520.08	42473520.44	0.0088	0.0022
Mercury	111615-10-05 13:39 G	42487879.03	42487879.07	42487879.15	0.0089	0.0085
Mercury	111616-01-01 17:15 G	42487967.13	42487967.22	42487967.33	0.0089	0.0075
Mercury	111616-03-29 20:22 G	42488055.25	42488055.35	42488055.50	0.0089	0.0066
Mercury	111616-06-25 23:58 G	42488143.37	42488143.50	42488143.66	0.0089	0.0056
Mercury	111616-09-22 03:34 G	42488231.49	42488231.65	42488231.82	0.0089	0.0046
Mercury	111616-12-19 06:56 G	42488319.63	42488319.79	42488319.97	0.0089	0.0036

Mercury	111617-03-17 10:18 G	42488407.76	42488407.93	42488408.12	0.0089	0.0027
Mercury	111617-06-13 13:54 G	42488495.90	42488496.08	42488496.27	0.0089	0.0017
Mercury	111617-09-09 17:30 G	42488584.04	42488584.23	42488584.42	0.0089	0.0007
Mercury	111617-12-06 20:51 G	42488672.18	42488672.37	42488672.56	0.0089	0.0004
Mercury	111618-03-05 00:13 G	42488760.33	42488760.51	42488760.71	0.0089	0.0014
Mercury	111618-06-01 03:49 G	42488848.48	42488848.66	42488848.85	0.0089	0.0023
Mercury	111618-08-28 07:10 G	42488936.63	42488936.80	42488936.99	0.0089	0.0033
Mercury	111618-11-24 11:01 G	42489024.79	42489024.96	42489025.12	0.0089	0.0043
Mercury	111619-02-20 14:22 G	42489112.95	42489113.10	42489113.26	0.0089	0.0053
Mercury	111619-05-19 17:58 G	42489201.12	42489201.25	42489201.39	0.0089	0.0063
Mercury	111619-08-15 21:20 G	42489289.29	42489289.39	42489289.51	0.0089	0.0073
Mercury	111619-11-12 00:56 G	42489377.48	42489377.54	42489377.62	0.0089	0.0083
Moon	111623-01-09 11:15 G	42490531.88	42490531.97	42490532.10	0.0089	0.0081
Earth	111623-01-09 13:39 G	42490531.98	42490532.07	42490532.18	0.0089	0.0082 *
Earth	111624-01-12 01:54 G	42490899.39	42490899.58	42490899.77	0.0090	0.0059
Moon	111624-01-12 02:22 G	42490899.42	42490899.60	42490899.81	0.0090	0.0061 *
Venus	111624-01-13 14:22 G	42490901.10	42490901.10	42490901.12	0.0090	0.0089
Venus	111624-08-26 03:06 G	42491126.55	42491126.63	42491126.74	0.0090	0.0080
Earth	111625-01-13 13:39 G	42491266.85	42491267.07	42491267.32	0.0090	0.0037
Moon	111625-01-13 14:22 G	42491266.89	42491267.10	42491267.34	0.0090	0.0035 *
Venus	111625-04-08 16:03 G	42491352.05	42491352.17	42491352.32	0.0090	0.0070
Venus	111625-11-20 05:15 G	42491577.57	42491577.72	42491577.89	0.0090	0.0060
Moon	111626-01-15 23:58 G	42491634.25	42491634.50	42491634.77	0.0090	0.0015
Earth	111626-01-16 01:39 G	42491634.32	42491634.57	42491634.83	0.0090	0.0014 *
Venus	111626-07-03 18:13 G	42491803.09	42491803.26	42491803.45	0.0090	0.0050
Earth	111627-01-18 13:25 G	42492001.81	42492002.06	42492002.32	0.0090	0.0010
Moon	111627-01-18 16:18 G	42492001.94	42492002.18	42492002.44	0.0090	0.0012 *
Venus	111627-02-14 07:10 G	42492028.61	42492028.80	42492028.99	0.0090	0.0040
Venus	111627-09-27 19:54 G	42492254.13	42492254.33	42492254.54	0.0090	0.0030
Moon	111628-01-20 21:49 G	42492369.18	42492369.41	42492369.67	0.0090	0.0030

Earth	111628-01-21 01:39 G	42492369.33	42492369.57	42492369.81	0.0090	0.0032	*
Venus	111628-05-10 08:51 G	42492479.66	42492479.87	42492480.09	0.0090	0.0020	
Venus	111628-12-21 21:49 G	42492705.20	42492705.41	42492705.63	0.0090	0.0010	
Earth	111629-01-22 12:56 G	42492736.86	42492737.04	42492737.26	0.0090	0.0055	
Moon	111629-01-22 16:46 G	42492737.01	42492737.20	42492737.40	0.0090	0.0056	*
Venus	111629-08-04 10:46 G	42492930.73	42492930.95	42492931.16	0.0090	0.0002	
Moon	111630-01-24 21:20 G	42493104.28	42493104.39	42493104.55	0.0090	0.0076	
Earth	111630-01-25 00:42 G	42493104.43	42493104.53	42493104.68	0.0090	0.0078	*
Venus	111630-03-17 23:15 G	42493156.27	42493156.47	42493156.70	0.0090	0.0011	
Venus	111630-10-29 12:13 G	42493381.81	42493382.01	42493382.23	0.0090	0.0021	
Venus	111631-06-12 00:56 G	42493607.35	42493607.54	42493607.76	0.0090	0.0031	
Venus	111632-01-23 13:39 G	42493832.90	42493833.07	42493833.28	0.0090	0.0041	
Venus	111632-09-05 02:51 G	42494058.44	42494058.62	42494058.80	0.0090	0.0050	
Venus	111633-04-18 15:34 G	42494283.99	42494284.15	42494284.31	0.0090	0.0060	
Venus	111633-11-30 04:18 G	42494509.56	42494509.68	42494509.83	0.0090	0.0070	
Venus	111634-07-13 17:01 G	42494735.13	42494735.21	42494735.32	0.0090	0.0080	
Venus	111635-02-24 05:44 G	42494960.74	42494960.74	42494960.77	0.0090	0.0090	
Mars	111658-04-29 05:01 G	42503425.43	42503425.71	42503426.00	0.0089	0.0009	
Mercury	111696-05-04 18:56 G	42517311.25	42517311.29	42517311.35	0.0088	0.0081	
Mercury	111696-07-31 20:37 G	42517399.29	42517399.36	42517399.43	0.0088	0.0074	
Mercury	111696-10-27 21:34 G	42517487.33	42517487.40	42517487.50	0.0088	0.0068	
Mercury	111697-01-23 23:01 G	42517575.38	42517575.46	42517575.57	0.0088	0.0062	
Mercury	111697-04-22 00:42 G	42517663.43	42517663.53	42517663.64	0.0088	0.0054	
Mercury	111697-07-19 02:08 G	42517751.48	42517751.59	42517751.71	0.0088	0.0047	
Mercury	111697-10-15 03:34 G	42517839.53	42517839.65	42517839.77	0.0088	0.0040	
Mercury	111698-01-11 04:46 G	42517927.58	42517927.70	42517927.83	0.0088	0.0034	
Mercury	111698-04-09 06:13 G	42518015.64	42518015.76	42518015.90	0.0088	0.0027	
Mercury	111698-07-06 07:39 G	42518103.69	42518103.82	42518103.96	0.0088	0.0020	
Mercury	111698-10-02 09:06 G	42518191.75	42518191.88	42518192.02	0.0088	0.0013	
Mercury	111698-12-29 10:32 G	42518279.80	42518279.94	42518280.07	0.0088	0.0007	

Mercury	111699-03-27 11:58 G	42518367.86	42518368.00	42518368.13	0.0088	0.0002
Mercury	111699-06-23 13:10 G	42518455.92	42518456.05	42518456.19	0.0088	0.0007
Mercury	111699-09-19 14:37 G	42518543.98	42518544.11	42518544.24	0.0088	0.0013
Mercury	111699-12-16 15:49 G	42518632.03	42518632.16	42518632.30	0.0088	0.0021
Mercury	111700-03-14 17:15 G	42518720.09	42518720.22	42518720.35	0.0088	0.0027
Mercury	111700-06-10 18:42 G	42518808.16	42518808.28	42518808.40	0.0088	0.0033
Mercury	111700-09-06 19:54 G	42518896.22	42518896.33	42518896.46	0.0088	0.0040
Mercury	111700-12-03 21:06 G	42518984.28	42518984.38	42518984.50	0.0088	0.0047
Mercury	111701-03-01 22:32 G	42519072.34	42519072.44	42519072.55	0.0088	0.0053
Mercury	111701-05-28 23:44 G	42519160.41	42519160.49	42519160.60	0.0088	0.0060
Mercury	111701-08-25 01:25 G	42519248.47	42519248.56	42519248.64	0.0088	0.0066
Mercury	111701-11-21 02:22 G	42519336.54	42519336.60	42519336.69	0.0088	0.0073
Mercury	111702-02-17 04:03 G	42519424.61	42519424.67	42519424.72	0.0088	0.0079
Mercury	111702-05-16 05:01 G	42519512.70	42519512.71	42519512.75	0.0088	0.0086
Earth	111704-07-08 09:20 G	42520296.80	42520296.89	42520297.00	0.0088	0.0080
Moon	111704-07-08 12:13 G	42520296.93	42520297.01	42520297.16	0.0088	0.0079 *
Moon	111705-07-10 17:30 G	42520664.07	42520664.23	42520664.43	0.0088	0.0061
Earth	111705-07-10 20:22 G	42520664.18	42520664.35	42520664.57	0.0088	0.0059 *
Venus	111706-02-27 11:44 G	42520895.93	42520895.99	42520896.11	0.0088	0.0080
Earth	111706-07-13 07:54 G	42521031.61	42521031.83	42521032.08	0.0088	0.0037
Moon	111706-07-13 09:34 G	42521031.66	42521031.90	42521032.15	0.0088	0.0034 *
Venus	111706-10-11 01:10 G	42521121.43	42521121.55	42521121.70	0.0088	0.0070
Venus	111707-05-24 14:08 G	42521346.95	42521347.09	42521347.27	0.0088	0.0061
Moon	111707-07-15 18:42 G	42521399.05	42521399.28	42521399.54	0.0088	0.0017
Earth	111707-07-15 19:25 G	42521399.06	42521399.31	42521399.57	0.0088	0.0015 *
Venus	111708-01-05 03:34 G	42521572.48	42521572.65	42521572.84	0.0088	0.0051
Moon	111708-07-17 06:13 G	42521766.49	42521766.76	42521767.03	0.0088	0.0009
Earth	111708-07-17 06:56 G	42521766.54	42521766.79	42521767.05	0.0088	0.0007 *
Venus	111708-08-17 16:18 G	42521798.01	42521798.18	42521798.40	0.0088	0.0042
Venus	111709-03-31 05:44 G	42522023.54	42522023.74	42522023.96	0.0088	0.0032



Earth	111709-07-19 18:13 G	42522134.02	42522134.26	42522134.51	0.0088	0.0029
Moon	111709-07-19 20:22 G	42522134.13	42522134.35	42522134.61	0.0088	0.0027 *
Venus	111709-11-11 19:10 G	42522249.08	42522249.30	42522249.52	0.0088	0.0022
Venus	111710-06-25 08:08 G	42522474.63	42522474.84	42522475.07	0.0088	0.0013
Moon	111710-07-22 02:37 G	42522501.42	42522501.61	42522501.84	0.0088	0.0053
Earth	111710-07-22 05:30 G	42522501.54	42522501.73	42522501.96	0.0088	0.0051 *
Venus	111711-02-05 21:20 G	42522700.17	42522700.39	42522700.62	0.0088	0.0003
Earth	111711-07-24 16:46 G	42522869.08	42522869.20	42522869.37	0.0088	0.0073
Moon	111711-07-24 20:22 G	42522869.22	42522869.35	42522869.53	0.0088	0.0071 *
Venus	111711-09-19 10:32 G	42522925.72	42522925.94	42522926.16	0.0088	0.0007
Venus	111712-05-01 23:44 G	42523151.28	42523151.49	42523151.72	0.0088	0.0017
Venus	111712-12-13 12:42 G	42523376.83	42523377.03	42523377.26	0.0088	0.0027
Venus	111713-07-27 02:08 G	42523602.39	42523602.59	42523602.80	0.0088	0.0036
Venus	111714-03-09 15:06 G	42523827.95	42523828.13	42523828.33	0.0088	0.0046
Venus	111714-10-21 04:03 G	42524053.52	42524053.67	42524053.86	0.0088	0.0056
Venus	111715-06-03 17:30 G	42524279.10	42524279.23	42524279.39	0.0088	0.0065
Venus	111716-01-15 06:27 G	42524504.68	42524504.77	42524504.91	0.0088	0.0075
Venus	111716-08-27 19:54 G	42524730.28	42524730.33	42524730.41	0.0088	0.0084
Mars	111740-01-25 23:44 G	42533281.27	42533281.49	42533281.76	0.0088	0.0063
Mars	111741-12-22 09:49 G	42533977.65	42533977.91	42533978.21	0.0088	0.0052
Mercury	111780-04-05 09:20 G	42547961.88	42547961.89	42547961.92	0.0089	0.0089
Mercury	111780-07-02 12:27 G	42548049.96	42548050.02	42548050.13	0.0089	0.0080
Mercury	111780-09-28 16:03 G	42548138.07	42548138.17	42548138.30	0.0089	0.0070
Mercury	111780-12-25 19:25 G	42548226.18	42548226.31	42548226.46	0.0089	0.0060
Mercury	111781-03-23 22:46 G	42548314.31	42548314.45	42548314.62	0.0089	0.0051
Mercury	111781-06-20 02:22 G	42548402.44	42548402.60	42548402.77	0.0089	0.0041
Mercury	111781-09-16 05:44 G	42548490.57	42548490.74	42548490.92	0.0089	0.0031
Mercury	111781-12-13 09:06 G	42548578.71	42548578.88	42548579.07	0.0089	0.0022
Mercury	111782-03-11 12:42 G	42548666.85	42548667.03	42548667.22	0.0089	0.0012
Mercury	111782-06-07 16:18 G	42548754.99	42548755.18	42548755.37	0.0089	0.0002

Mercury	111782-09-03 19:39 G	42548843.13	42548843.32	42548843.51	0.0089	0.0008
Mercury	111782-11-30 23:01 G	42548931.28	42548931.46	42548931.65	0.0089	0.0018
Mercury	111783-02-27 02:37 G	42549019.43	42549019.61	42549019.79	0.0089	0.0028
Mercury	111783-05-26 05:58 G	42549107.58	42549107.75	42549107.93	0.0089	0.0038
Mercury	111783-08-22 09:34 G	42549195.74	42549195.90	42549196.06	0.0089	0.0048
Mercury	111783-11-18 12:56 G	42549283.91	42549284.04	42549284.20	0.0089	0.0058
Mercury	111784-02-14 16:32 G	42549372.07	42549372.19	42549372.32	0.0089	0.0068
Mercury	111784-05-12 19:54 G	42549460.25	42549460.33	42549460.44	0.0089	0.0078
Mercury	111784-08-08 23:30 G	42549548.46	42549548.48	42549548.53	0.0089	0.0088
Moon	111788-01-12 08:08 G	42550799.69	42550799.84	42550800.02	0.0089	0.0068
Earth	111788-01-12 11:30 G	42550799.83	42550799.98	42550800.16	0.0089	0.0068 *
Venus	111788-11-28 14:51 G	42551121.04	42551121.12	42551121.22	0.0090	0.0081
Earth	111789-01-13 23:44 G	42551167.27	42551167.49	42551167.71	0.0090	0.0045
Moon	111789-01-14 02:51 G	42551167.42	42551167.62	42551167.86	0.0090	0.0044 *
Venus	111789-07-12 03:20 G	42551346.53	42551346.64	42551346.80	0.0090	0.0072
Moon	111790-01-16 07:54 G	42551534.60	42551534.83	42551535.09	0.0090	0.0024
Earth	111790-01-16 11:30 G	42551534.75	42551534.98	42551535.25	0.0090	0.0023 *
Venus	111790-02-22 16:18 G	42551572.05	42551572.18	42551572.36	0.0090	0.0062
Venus	111790-10-06 05:30 G	42551797.57	42551797.73	42551797.92	0.0090	0.0052
Earth	111791-01-18 23:44 G	42551902.24	42551902.49	42551902.75	0.0090	0.0001
Moon	111791-01-19 02:22 G	42551902.34	42551902.60	42551902.86	0.0090	0.0002 *
Venus	111791-05-19 18:27 G	42552023.09	42552023.27	42552023.48	0.0090	0.0042
Venus	111791-12-31 07:25 G	42552248.62	42552248.81	42552249.02	0.0090	0.0032
Moon	111792-01-21 09:34 G	42552269.67	42552269.90	42552270.15	0.0090	0.0023
Earth	111792-01-21 11:30 G	42552269.75	42552269.98	42552270.24	0.0090	0.0024 *
Venus	111792-08-12 20:22 G	42552474.14	42552474.35	42552474.57	0.0090	0.0021
Earth	111793-01-22 23:15 G	42552637.27	42552637.47	42552637.71	0.0090	0.0047
Moon	111793-01-22 23:44 G	42552637.29	42552637.49	42552637.73	0.0090	0.0048 *
Venus	111793-03-26 09:20 G	42552699.68	42552699.89	42552700.11	0.0090	0.0011
Venus	111793-11-06 22:18 G	42552925.22	42552925.43	42552925.65	0.0090	0.0002

Earth	111794-01-25 11:30 G	42553004.82	42553004.98	42553005.14	0.0090	0.0069
Moon	111794-01-25 12:13 G	42553004.87	42553005.01	42553005.18	0.0090	0.0069 *
Venus	111794-06-20 11:15 G	42553150.75	42553150.97	42553151.18	0.0090	0.0009
Venus	111795-01-31 23:58 G	42553376.29	42553376.50	42553376.71	0.0090	0.0019
Venus	111795-09-14 12:42 G	42553601.83	42553602.03	42553602.24	0.0090	0.0029
Venus	111796-04-27 01:25 G	42553827.37	42553827.56	42553827.76	0.0090	0.0039
Venus	111796-12-08 14:22 G	42554052.93	42554053.10	42554053.29	0.0090	0.0049
Venus	111797-07-22 03:06 G	42554278.48	42554278.63	42554278.81	0.0090	0.0059
Venus	111798-03-04 15:34 G	42554504.04	42554504.15	42554504.31	0.0090	0.0069
Venus	111798-10-16 04:18 G	42554729.61	42554729.68	42554729.81	0.0090	0.0079
Venus	111799-05-29 17:30 G	42554955.20	42554955.23	42554955.28	0.0090	0.0088
Mars	111821-12-14 20:37 G	42563189.09	42563189.36	42563189.63	0.0089	0.0028
Mars	111823-11-08 08:37 G	42563882.71	42563882.86	42563883.06	0.0089	0.0071
Mercury	111860-11-04 17:01 G	42577394.19	42577394.21	42577394.26	0.0088	0.0085
Mercury	111861-01-31 18:42 G	42577482.23	42577482.28	42577482.35	0.0088	0.0078
Mercury	111861-04-29 20:08 G	42577570.27	42577570.34	42577570.43	0.0088	0.0071
Mercury	111861-07-26 21:34 G	42577658.31	42577658.40	42577658.50	0.0088	0.0064
Mercury	111861-10-22 23:01 G	42577746.36	42577746.46	42577746.57	0.0088	0.0057
Mercury	111862-01-19 00:27 G	42577834.41	42577834.52	42577834.64	0.0088	0.0051
Mercury	111862-04-17 01:39 G	42577922.47	42577922.57	42577922.70	0.0088	0.0044
Mercury	111862-07-14 03:20 G	42578010.52	42578010.64	42578010.76	0.0088	0.0037
Mercury	111862-10-10 04:46 G	42578098.57	42578098.70	42578098.83	0.0088	0.0030
Mercury	111863-01-06 06:13 G	42578186.63	42578186.76	42578186.89	0.0088	0.0023
Mercury	111863-04-04 07:25 G	42578274.68	42578274.81	42578274.95	0.0088	0.0017
Mercury	111863-07-01 08:51 G	42578362.74	42578362.87	42578363.01	0.0088	0.0010
Mercury	111863-09-27 10:18 G	42578450.80	42578450.93	42578451.07	0.0088	0.0003
Mercury	111863-12-24 11:44 G	42578538.85	42578538.99	42578539.12	0.0088	0.0004
Mercury	111864-03-21 12:56 G	42578626.91	42578627.04	42578627.18	0.0088	0.0011
Mercury	111864-06-17 14:22 G	42578714.97	42578715.10	42578715.24	0.0088	0.0017
Mercury	111864-09-13 15:49 G	42578803.03	42578803.16	42578803.29	0.0088	0.0024

Mercury	111864-12-10 17:15 G	42578891.09	42578891.22	42578891.34	0.0088	0.0030
Mercury	111865-03-08 18:27 G	42578979.15	42578979.27	42578979.40	0.0088	0.0037
Mercury	111865-06-04 19:39 G	42579067.21	42579067.32	42579067.45	0.0088	0.0044
Mercury	111865-08-31 21:06 G	42579155.28	42579155.38	42579155.50	0.0088	0.0050
Mercury	111865-11-27 22:18 G	42579243.34	42579243.43	42579243.54	0.0088	0.0057
Mercury	111866-02-23 23:58 G	42579331.41	42579331.50	42579331.59	0.0088	0.0063
Mercury	111866-05-23 00:56 G	42579419.47	42579419.54	42579419.63	0.0088	0.0070
Mercury	111866-08-19 02:08 G	42579507.54	42579507.59	42579507.67	0.0088	0.0077
Mercury	111866-11-15 03:34 G	42579595.62	42579595.65	42579595.70	0.0088	0.0083
Moon	111868-07-08 19:39 G	42580197.30	42580197.32	42580197.37	0.0088	0.0087
Earth	111869-07-11 06:42 G	42580564.64	42580564.78	42580564.97	0.0088	0.0067
Moon	111869-07-11 08:37 G	42580564.72	42580564.86	42580565.05	0.0088	0.0067 *
Venus	111870-06-01 23:01 G	42580890.40	42580890.46	42580890.57	0.0088	0.0081
Moon	111870-07-13 15:20 G	42580931.94	42580932.14	42580932.39	0.0088	0.0045
Earth	111870-07-13 18:13 G	42580932.05	42580932.26	42580932.50	0.0088	0.0045 *
Venus	111871-01-13 12:13 G	42581115.90	42581116.01	42581116.15	0.0088	0.0071
Earth	111871-07-16 05:30 G	42581299.49	42581299.73	42581299.99	0.0088	0.0023
Moon	111871-07-16 08:51 G	42581299.64	42581299.87	42581300.13	0.0088	0.0024 *
Venus	111871-08-27 01:10 G	42581341.41	42581341.55	42581341.72	0.0088	0.0062
Venus	111872-04-08 14:22 G	42581566.94	42581567.10	42581567.29	0.0088	0.0052
Moon	111872-07-17 13:25 G	42581666.80	42581667.06	42581667.32	0.0088	0.0001
Earth	111872-07-17 17:01 G	42581666.95	42581667.21	42581667.47	0.0088	0.0002 *
Venus	111872-11-20 03:20 G	42581792.47	42581792.64	42581792.85	0.0088	0.0043
Venus	111873-07-03 16:32 G	42582018.00	42582018.19	42582018.41	0.0088	0.0033
Earth	111873-07-20 04:18 G	42582034.44	42582034.68	42582034.94	0.0088	0.0021
Moon	111873-07-20 07:39 G	42582034.57	42582034.82	42582035.08	0.0088	0.0020 *
Venus	111874-02-14 05:58 G	42582243.54	42582243.75	42582243.97	0.0088	0.0023
Moon	111874-07-22 12:56 G	42582401.84	42582402.04	42582402.27	0.0088	0.0044
Earth	111874-07-22 15:49 G	42582401.95	42582402.16	42582402.40	0.0088	0.0043 *
Venus	111874-09-27 18:56 G	42582469.08	42582469.29	42582469.52	0.0088	0.0014

Venus	111875-05-11 08:22 G	42582694.63	42582694.85	42582695.07	0.0088	0.0004
Earth	111875-07-25 02:51 G	42582769.47	42582769.62	42582769.82	0.0088	0.0065
Moon	111875-07-25 04:46 G	42582769.51	42582769.70	42582769.88	0.0088	0.0064 *
Venus	111875-12-22 21:34 G	42582920.18	42582920.40	42582920.62	0.0088	0.0006
Earth	111876-07-26 14:08 G	42583137.08	42583137.09	42583137.17	0.0088	0.0087
Moon	111876-07-26 14:37 G	42583137.09	42583137.11	42583137.14	0.0088	0.0087 *
Venus	111876-08-04 10:32 G	42583145.73	42583145.94	42583146.17	0.0088	0.0016
Venus	111877-03-17 23:44 G	42583371.28	42583371.49	42583371.71	0.0088	0.0025
Venus	111877-10-29 12:42 G	42583596.84	42583597.03	42583597.25	0.0088	0.0035
Venus	111878-06-12 01:54 G	42583822.40	42583822.58	42583822.79	0.0088	0.0045
Venus	111879-01-23 15:20 G	42584047.97	42584048.14	42584048.32	0.0088	0.0054
Venus	111879-09-06 04:03 G	42584273.54	42584273.67	42584273.85	0.0088	0.0064
Venus	111880-04-18 17:44 G	42584499.12	42584499.24	42584499.37	0.0088	0.0073
Venus	111880-11-30 06:27 G	42584724.72	42584724.77	42584724.87	0.0088	0.0083
Mars	111905-08-06 21:06 G	42593739.04	42593739.38	42593739.73	0.0088	0.0011
Mercury	111945-01-02 08:08 G	42608132.80	42608132.84	42608132.93	0.0089	0.0084
Mercury	111945-03-31 11:44 G	42608220.90	42608220.99	42608221.11	0.0089	0.0074
Mercury	111945-06-27 15:06 G	42608309.01	42608309.13	42608309.27	0.0089	0.0064
Mercury	111945-09-23 18:27 G	42608397.14	42608397.27	42608397.43	0.0089	0.0055
Mercury	111945-12-20 21:49 G	42608485.26	42608485.41	42608485.59	0.0089	0.0045
Mercury	111946-03-19 01:25 G	42608573.39	42608573.56	42608573.74	0.0089	0.0035
Mercury	111946-06-15 04:46 G	42608661.53	42608661.70	42608661.89	0.0089	0.0026
Mercury	111946-09-11 08:08 G	42608749.66	42608749.84	42608750.03	0.0089	0.0016
Mercury	111946-12-08 11:44 G	42608837.80	42608837.99	42608838.18	0.0089	0.0006
Mercury	111947-03-06 15:06 G	42608925.95	42608926.13	42608926.32	0.0089	0.0004
Mercury	111947-06-02 18:42 G	42609014.09	42609014.28	42609014.47	0.0089	0.0013
Mercury	111947-08-29 21:49 G	42609102.24	42609102.41	42609102.61	0.0089	0.0024
Mercury	111947-11-26 01:25 G	42609190.39	42609190.56	42609190.74	0.0089	0.0033
Mercury	111948-02-22 04:46 G	42609278.55	42609278.70	42609278.88	0.0089	0.0043
Mercury	111948-05-20 08:37 G	42609366.71	42609366.86	42609367.01	0.0089	0.0053

Mercury	111948-08-16 11:58 G	42609454.87	42609455.00	42609455.14	0.0089	0.0063
Mercury	111948-11-12 15:20 G	42609543.04	42609543.14	42609543.26	0.0089	0.0073
Mercury	111949-02-08 18:56 G	42609631.23	42609631.29	42609631.37	0.0089	0.0083
Moon	111952-01-13 19:25 G	42610700.17	42610700.31	42610700.46	0.0089	0.0073
Earth	111952-01-13 21:06 G	42610700.28	42610700.38	42610700.54	0.0089	0.0077 *
Earth	111953-01-15 09:34 G	42611067.71	42611067.90	42611068.12	0.0090	0.0054
Moon	111953-01-15 10:32 G	42611067.77	42611067.94	42611068.17	0.0090	0.0058 *
Venus	111953-03-04 01:54 G	42611115.51	42611115.58	42611115.68	0.0090	0.0083
Venus	111953-10-15 15:06 G	42611341.02	42611341.13	42611341.27	0.0090	0.0073
Earth	111954-01-17 21:49 G	42611435.17	42611435.41	42611435.66	0.0090	0.0031
Moon	111954-01-17 22:18 G	42611435.20	42611435.43	42611435.67	0.0090	0.0028 *
Venus	111954-05-29 04:03 G	42611566.53	42611566.67	42611566.84	0.0090	0.0063
Venus	111955-01-09 17:01 G	42611792.05	42611792.21	42611792.40	0.0090	0.0053
Moon	111955-01-20 08:37 G	42611802.60	42611802.86	42611803.12	0.0090	0.0011
Earth	111955-01-20 10:03 G	42611802.66	42611802.92	42611803.17	0.0090	0.0008 *
Venus	111955-08-23 05:58 G	42612017.57	42612017.75	42612017.95	0.0090	0.0043
Earth	111956-01-22 21:34 G	42612170.16	42612170.40	42612170.67	0.0090	0.0016
Moon	111956-01-23 00:13 G	42612170.27	42612170.51	42612170.76	0.0090	0.0019 *
Venus	111956-04-04 18:56 G	42612243.09	42612243.29	42612243.50	0.0090	0.0033
Venus	111956-11-16 08:08 G	42612468.63	42612468.84	42612469.05	0.0090	0.0023
Moon	111957-01-24 06:13 G	42612537.52	42612537.76	42612538.00	0.0090	0.0035
Earth	111957-01-24 09:20 G	42612537.68	42612537.89	42612538.14	0.0090	0.0039 *
Venus	111957-06-29 20:51 G	42612694.16	42612694.37	42612694.59	0.0090	0.0013
Earth	111958-01-26 21:20 G	42612905.21	42612905.39	42612905.59	0.0090	0.0061
Moon	111958-01-27 00:42 G	42612905.37	42612905.53	42612905.72	0.0090	0.0065 *
Venus	111958-02-10 09:49 G	42612919.69	42612919.91	42612920.13	0.0090	0.0003
Venus	111958-09-23 22:32 G	42613145.23	42613145.44	42613145.66	0.0090	0.0007
Moon	111959-01-29 05:30 G	42613272.64	42613272.73	42613272.86	0.0090	0.0080
Earth	111959-01-29 08:51 G	42613272.81	42613272.87	42613272.99	0.0090	0.0084 *
Venus	111959-05-07 11:30 G	42613370.77	42613370.98	42613371.19	0.0090	0.0017

Venus	111959-12-19 00:27 G	42613596.31	42613596.52	42613596.72	0.0090	0.0027
Venus	111960-07-31 13:10 G	42613821.85	42613822.05	42613822.25	0.0090	0.0037
Venus	111961-03-14 01:54 G	42614047.40	42614047.58	42614047.77	0.0090	0.0047
Venus	111961-10-25 14:37 G	42614272.95	42614273.11	42614273.29	0.0090	0.0057
Venus	111962-06-08 03:20 G	42614498.51	42614498.64	42614498.80	0.0090	0.0067
Venus	111963-01-19 16:03 G	42614724.08	42614724.17	42614724.30	0.0090	0.0077
Venus	111963-09-02 04:32 G	42614949.66	42614949.69	42614949.77	0.0090	0.0087
Mars	111985-07-31 12:13 G	42622952.85	42622953.01	42622953.24	0.0090	0.0065
Mars	111987-06-25 00:56 G	42623646.30	42623646.54	42623646.82	0.0089	0.0036

# 113TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 113th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	112025-05-06 15:49 G	42637477.16	42637477.16	42637477.16	0.0088	0.0088		
Mercury	112025-08-02 17:01 G	42637565.17	42637565.21	42637565.27	0.0088	0.0081		
Mercury	112025-10-29 18:27 G	42637653.21	42637653.27	42637653.35	0.0088	0.0075		
Mercury	112026-01-25 20:08 G	42637741.25	42637741.34	42637741.43	0.0088	0.0067		
Mercury	112026-04-23 21:06 G	42637829.30	42637829.38	42637829.50	0.0088	0.0062		
Mercury	112026-07-20 22:46 G	42637917.35	42637917.45	42637917.56	0.0088	0.0054		
Mercury	112026-10-17 00:13 G	42638005.40	42638005.51	42638005.63	0.0088	0.0047		
Mercury	112027-01-13 01:39 G	42638093.45	42638093.57	42638093.70	0.0088	0.0040		
Mercury	112027-04-11 03:06 G	42638181.51	42638181.63	42638181.76	0.0088	0.0033		

Mercury	112027-07-08 04:18 G	42638269.56	42638269.68	42638269.82	0.0088	0.0027
Mercury	112027-10-04 05:58 G	42638357.62	42638357.75	42638357.88	0.0088	0.0020
Mercury	112027-12-31 07:25 G	42638445.67	42638445.81	42638445.94	0.0088	0.0013
Mercury	112028-03-28 08:37 G	42638533.73	42638533.86	42638534.00	0.0088	0.0007
Mercury	112028-06-24 10:03 G	42638621.79	42638621.92	42638622.06	0.0088	0.0002
Mercury	112028-09-20 11:30 G	42638709.85	42638709.98	42638710.12	0.0088	0.0007
Mercury	112028-12-17 12:56 G	42638797.91	42638798.04	42638798.17	0.0088	0.0014
Mercury	112029-03-15 14:08 G	42638885.97	42638886.09	42638886.23	0.0088	0.0021
Mercury	112029-06-11 15:34 G	42638974.02	42638974.15	42638974.28	0.0088	0.0027
Mercury	112029-09-07 16:46 G	42639062.09	42639062.20	42639062.33	0.0088	0.0034
Mercury	112029-12-04 18:13 G	42639150.15	42639150.26	42639150.39	0.0088	0.0041
Mercury	112030-03-02 19:39 G	42639238.21	42639238.32	42639238.44	0.0088	0.0047
Mercury	112030-05-29 20:51 G	42639326.27	42639326.37	42639326.48	0.0088	0.0054
Mercury	112030-08-25 22:18 G	42639414.34	42639414.43	42639414.53	0.0088	0.0060
Mercury	112030-11-21 23:30 G	42639502.40	42639502.48	42639502.58	0.0088	0.0067
Mercury	112031-02-18 00:56 G	42639590.47	42639590.54	42639590.62	0.0088	0.0073
Mercury	112031-05-17 02:08 G	42639678.55	42639678.59	42639678.66	0.0088	0.0080
Mercury	112031-08-13 03:49 G	42639766.64	42639766.66	42639766.68	0.0088	0.0086
Earth	112033-07-11 17:15 G	42640465.09	42640465.22	42640465.36	0.0088	0.0074
Moon	112033-07-11 20:22 G	42640465.22	42640465.35	42640465.52	0.0088	0.0071 *
Moon	112034-07-14 01:25 G	42640832.37	42640832.56	42640832.76	0.0088	0.0056
Earth	112034-07-14 04:03 G	42640832.49	42640832.67	42640832.90	0.0088	0.0053 *
Venus	112034-09-04 09:49 G	42640884.86	42640884.91	42640885.02	0.0088	0.0082
Venus	112035-04-17 23:15 G	42641110.36	42641110.47	42641110.61	0.0088	0.0072
Earth	112035-07-16 15:34 G	42641199.92	42641200.15	42641200.40	0.0088	0.0031
Moon	112035-07-16 17:30 G	42641199.99	42641200.23	42641200.50	0.0088	0.0028 *
Venus	112035-11-29 12:13 G	42641335.87	42641336.01	42641336.18	0.0088	0.0063
Venus	112036-07-12 01:25 G	42641561.39	42641561.56	42641561.74	0.0088	0.0053
Moon	112036-07-18 02:08 G	42641567.35	42641567.59	42641567.84	0.0088	0.0012
Earth	112036-07-18 03:06 G	42641567.37	42641567.63	42641567.89	0.0088	0.0009 *



Venus	112037-02-22 14:08 G	42641786.91	42641787.09	42641787.30	0.0088	0.0044
Moon	112037-07-20 14:08 G	42641934.83	42641935.09	42641935.36	0.0088	0.0017
Earth	112037-07-20 14:22 G	42641934.85	42641935.10	42641935.36	0.0088	0.0013 *
Venus	112037-10-06 03:20 G	42642012.44	42642012.64	42642012.85	0.0088	0.0034
Venus	112038-05-19 16:32 G	42642237.99	42642238.19	42642238.41	0.0088	0.0025
Earth	112038-07-23 01:25 G	42642302.34	42642302.56	42642302.81	0.0088	0.0035
Moon	112038-07-23 03:34 G	42642302.42	42642302.65	42642302.89	0.0088	0.0032 *
Venus	112038-12-31 05:44 G	42642463.53	42642463.74	42642463.97	0.0088	0.0015
Moon	112039-07-25 09:49 G	42642669.74	42642669.91	42642670.13	0.0088	0.0060
Earth	112039-07-25 12:56 G	42642669.86	42642670.04	42642670.25	0.0088	0.0057 *
Venus	112039-08-13 18:56 G	42642689.07	42642689.29	42642689.52	0.0088	0.0005
Venus	112040-03-26 08:08 G	42642914.62	42642914.84	42642915.06	0.0088	0.0005
Earth	112040-07-27 00:13 G	42643037.42	42643037.51	42643037.65	0.0088	0.0079
Moon	112040-07-27 03:34 G	42643037.54	42643037.65	42643037.81	0.0088	0.0075 *
Venus	112040-11-06 21:20 G	42643140.17	42643140.39	42643140.61	0.0088	0.0014
Venus	112041-06-20 10:32 G	42643365.73	42643365.94	42643366.16	0.0088	0.0024
Venus	112042-01-31 23:30 G	42643591.29	42643591.48	42643591.70	0.0088	0.0034
Venus	112042-09-14 12:56 G	42643816.85	42643817.04	42643817.24	0.0088	0.0043
Venus	112043-04-28 01:54 G	42644042.42	42644042.58	42644042.77	0.0088	0.0053
Venus	112043-12-09 15:06 G	42644267.99	42644268.13	42644268.30	0.0088	0.0063
Venus	112044-07-22 04:32 G	42644493.57	42644493.69	42644493.82	0.0088	0.0072
Venus	112045-03-04 17:15 G	42644719.17	42644719.22	42644719.33	0.0088	0.0082
Mars	112069-03-20 06:56 G	42653500.49	42653500.79	42653501.14	0.0088	0.0031
Mars	112071-02-14 16:18 G	42654197.12	42654197.18	42654197.29	0.0088	0.0085
Jupiter	112079-02-23 12:27 G	42657127.62	42657128.02	42657128.47	0.0088	0.0059
Mercury	112109-07-04 03:49 G	42668215.64	42668215.66	42668215.72	0.0089	0.0088
Mercury	112109-09-30 07:39 G	42668303.73	42668303.82	42668303.91	0.0089	0.0078
Mercury	112109-12-27 10:46 G	42668391.84	42668391.95	42668392.08	0.0089	0.0068
Mercury	112110-03-25 14:22 G	42668479.96	42668480.10	42668480.24	0.0089	0.0059
Mercury	112110-06-21 17:30 G	42668568.08	42668568.23	42668568.39	0.0089	0.0049

Mercury	112110-09-17 20:51 G	42668656.21	42668656.37	42668656.55	0.0089	0.0040
Mercury	112110-12-15 00:13 G	42668744.34	42668744.51	42668744.70	0.0089	0.0030
Mercury	112111-03-13 03:49 G	42668832.48	42668832.66	42668832.85	0.0089	0.0020
Mercury	112111-06-09 07:10 G	42668920.62	42668920.80	42668920.99	0.0089	0.0011
Mercury	112111-09-05 10:32 G	42669008.76	42669008.94	42669009.13	0.0089	0.0003
Mercury	112111-12-02 14:08 G	42669096.90	42669097.09	42669097.28	0.0089	0.0009
Mercury	112112-02-28 17:30 G	42669185.05	42669185.23	42669185.42	0.0089	0.0019
Mercury	112112-05-26 20:51 G	42669273.20	42669273.37	42669273.56	0.0089	0.0029
Mercury	112112-08-23 00:13 G	42669361.35	42669361.51	42669361.69	0.0089	0.0039
Mercury	112112-11-19 03:34 G	42669449.51	42669449.65	42669449.83	0.0089	0.0049
Mercury	112113-02-15 06:56 G	42669537.67	42669537.79	42669537.96	0.0089	0.0059
Mercury	112113-05-14 11:01 G	42669625.84	42669625.96	42669626.08	0.0089	0.0068
Mercury	112113-08-10 14:22 G	42669714.01	42669714.10	42669714.20	0.0089	0.0078
Mercury	112113-11-06 17:44 G	42669802.22	42669802.24	42669802.28	0.0089	0.0088
Earth	112116-01-14 07:39 G	42670600.74	42670600.82	42670600.90	0.0089	0.0085
Moon	112117-01-15 16:03 G	42670967.99	42670968.17	42670968.39	0.0089	0.0058
Earth	112117-01-15 19:10 G	42670968.14	42670968.30	42670968.51	0.0089	0.0063 *
Venus	112117-06-06 13:25 G	42671110.00	42671110.06	42671110.15	0.0089	0.0084
Venus	112118-01-18 02:37 G	42671335.49	42671335.61	42671335.74	0.0090	0.0074
Earth	112118-01-18 07:39 G	42671335.60	42671335.82	42671336.06	0.0090	0.0040 *
Moon	112118-01-18 11:15 G	42671335.75	42671335.97	42671336.19	0.0090	0.0044 *
Venus	112118-08-31 15:34 G	42671561.01	42671561.15	42671561.31	0.0090	0.0064
Moon	112119-01-20 16:32 G	42671702.94	42671703.19	42671703.45	0.0090	0.0011
Earth	112119-01-20 20:08 G	42671703.09	42671703.34	42671703.60	0.0090	0.0017 *
Venus	112119-04-14 04:46 G	42671786.53	42671786.70	42671786.87	0.0090	0.0054
Venus	112119-11-25 17:58 G	42672012.06	42672012.25	42672012.44	0.0090	0.0044
Earth	112120-01-23 08:08 G	42672070.59	42672070.84	42672071.10	0.0090	0.0007
Moon	112120-01-23 11:15 G	42672070.71	42672070.97	42672071.23	0.0090	0.0002 *
Venus	112120-07-08 06:56 G	42672237.59	42672237.79	42672237.99	0.0090	0.0034
Moon	112121-01-24 17:30 G	42672438.02	42672438.23	42672438.48	0.0090	0.0035

Earth	112121-01-24 19:54 G	42672438.10	42672438.33	42672438.59	0.0090	0.0030	*
Venus	112121-02-18 19:25 G	42672463.12	42672463.31	42672463.53	0.0090	0.0025	
Venus	112121-10-02 08:37 G	42672688.65	42672688.86	42672689.08	0.0090	0.0014	
Earth	112122-01-27 07:54 G	42672805.64	42672805.83	42672806.05	0.0090	0.0053	
Moon	112122-01-27 09:20 G	42672805.68	42672805.89	42672806.13	0.0090	0.0048	*
Venus	112122-05-15 21:34 G	42672914.18	42672914.40	42672914.62	0.0090	0.0004	
Venus	112122-12-27 10:32 G	42673139.72	42673139.94	42673140.16	0.0090	0.0006	
Earth	112123-01-29 19:25 G	42673173.20	42673173.31	42673173.47	0.0090	0.0076	
Moon	112123-01-29 19:39 G	42673173.25	42673173.32	42673173.46	0.0090	0.0081	*
Venus	112123-08-09 23:15 G	42673365.26	42673365.47	42673365.69	0.0090	0.0016	
Venus	112124-03-22 11:58 G	42673590.80	42673591.00	42673591.21	0.0090	0.0026	
Venus	112124-11-03 00:56 G	42673816.35	42673816.54	42673816.74	0.0090	0.0036	
Venus	112125-06-16 13:25 G	42674041.89	42674042.06	42674042.26	0.0090	0.0046	
Venus	112126-01-28 02:08 G	42674267.44	42674267.59	42674267.78	0.0090	0.0056	
Venus	112126-09-10 14:51 G	42674492.99	42674493.12	42674493.29	0.0090	0.0066	
Venus	112127-04-24 04:03 G	42674718.56	42674718.67	42674718.79	0.0090	0.0075	
Venus	112127-12-05 16:46 G	42674944.14	42674944.20	42674944.28	0.0090	0.0085	
Mars	112151-02-08 18:27 G	42683409.99	42683410.27	42683410.56	0.0089	0.0002	
Mercury	112190-02-01 15:34 G	42697648.12	42697648.15	42697648.19	0.0088	0.0084	
Mercury	112190-04-30 17:01 G	42697736.15	42697736.21	42697736.28	0.0088	0.0077	
Mercury	112190-07-27 18:27 G	42697824.19	42697824.27	42697824.35	0.0088	0.0070	
Mercury	112190-10-23 19:39 G	42697912.24	42697912.32	42697912.43	0.0088	0.0064	
Mercury	112191-01-19 21:06 G	42698000.29	42698000.38	42698000.50	0.0088	0.0057	
Mercury	112191-04-17 22:32 G	42698088.34	42698088.44	42698088.56	0.0088	0.0050	
Mercury	112191-07-15 00:13 G	42698176.39	42698176.51	42698176.63	0.0088	0.0043	
Mercury	112191-10-11 01:39 G	42698264.44	42698264.57	42698264.69	0.0088	0.0036	
Mercury	112192-01-07 02:51 G	42698352.50	42698352.62	42698352.76	0.0088	0.0030	
Mercury	112192-04-04 04:18 G	42698440.55	42698440.68	42698440.82	0.0088	0.0023	
Mercury	112192-07-01 05:44 G	42698528.61	42698528.74	42698528.88	0.0088	0.0016	
Mercury	112192-09-27 07:10 G	42698616.67	42698616.80	42698616.94	0.0088	0.0009	

Mercury	112192-12-24 08:37 G	42698704.72	42698704.86	42698705.00	0.0088	0.0003
Mercury	112193-03-22 10:03 G	42698792.78	42698792.92	42698793.05	0.0088	0.0004
Mercury	112193-06-18 11:15 G	42698880.84	42698880.97	42698881.11	0.0088	0.0011
Mercury	112193-09-14 12:42 G	42698968.90	42698969.03	42698969.17	0.0088	0.0018
Mercury	112193-12-11 14:08 G	42699056.96	42699057.09	42699057.22	0.0088	0.0024
Mercury	112194-03-09 15:20 G	42699145.02	42699145.14	42699145.27	0.0088	0.0031
Mercury	112194-06-05 16:46 G	42699233.08	42699233.20	42699233.33	0.0088	0.0038
Mercury	112194-09-01 18:13 G	42699321.14	42699321.26	42699321.38	0.0088	0.0044
Mercury	112194-11-28 19:25 G	42699409.21	42699409.31	42699409.43	0.0088	0.0051
Mercury	112195-02-24 20:51 G	42699497.27	42699497.37	42699497.47	0.0088	0.0057
Mercury	112195-05-23 22:03 G	42699585.34	42699585.42	42699585.52	0.0088	0.0064
Mercury	112195-08-19 23:15 G	42699673.41	42699673.47	42699673.56	0.0088	0.0071
Mercury	112195-11-16 00:42 G	42699761.48	42699761.53	42699761.60	0.0088	0.0077
Mercury	112196-02-12 01:54 G	42699849.56	42699849.58	42699849.64	0.0088	0.0084
Earth	112197-07-12 03:49 G	42700365.58	42700365.66	42700365.76	0.0088	0.0082
Moon	112197-07-12 04:03 G	42700365.66	42700365.67	42700365.75	0.0088	0.0087 *
Earth	112198-07-14 14:37 G	42700732.94	42700733.11	42700733.32	0.0088	0.0061
Moon	112198-07-14 15:49 G	42700732.98	42700733.16	42700733.37	0.0088	0.0056 *
Venus	112198-12-07 21:20 G	42700879.34	42700879.39	42700879.48	0.0088	0.0083
Moon	112199-07-16 23:44 G	42701100.27	42701100.49	42701100.74	0.0088	0.0043
Earth	112199-07-17 01:54 G	42701100.37	42701100.58	42701100.83	0.0088	0.0039 *
Venus	112199-07-21 10:32 G	42701104.83	42701104.94	42701105.07	0.0088	0.0073
Venus	112200-03-03 23:15 G	42701330.33	42701330.47	42701330.64	0.0088	0.0064
Earth	112200-07-19 13:25 G	42701467.81	42701468.06	42701468.32	0.0088	0.0017
Moon	112200-07-19 16:18 G	42701467.93	42701468.18	42701468.43	0.0088	0.0012 *
Venus	112200-10-15 12:27 G	42701555.85	42701556.02	42701556.20	0.0088	0.0054
Venus	112201-05-29 01:25 G	42701781.38	42701781.56	42701781.76	0.0088	0.0045
Moon	112201-07-21 20:51 G	42701835.12	42701835.37	42701835.64	0.0088	0.0002
Earth	112201-07-22 00:42 G	42701835.27	42701835.53	42701835.79	0.0088	0.0005 *
Venus	112202-01-09 14:37 G	42702006.91	42702007.11	42702007.32	0.0088	0.0035

Earth	112202-07-24 11:44 G	42702202.75	42702202.99	42702203.24	0.0088	0.0027
Moon	112202-07-24 14:51 G	42702202.90	42702203.12	42702203.38	0.0088	0.0032 *
Venus	112202-08-23 03:20 G	42702232.44	42702232.64	42702232.87	0.0088	0.0026
Venus	112203-04-05 16:46 G	42702457.98	42702458.20	42702458.42	0.0088	0.0016
Moon	112203-07-26 20:08 G	42702570.12	42702570.34	42702570.56	0.0088	0.0044
Earth	112203-07-26 23:01 G	42702570.26	42702570.46	42702570.69	0.0088	0.0049 *
Venus	112203-11-17 05:44 G	42702683.52	42702683.74	42702683.97	0.0088	0.0007
Venus	112204-06-29 18:56 G	42702909.07	42702909.29	42702909.51	0.0088	0.0003
Earth	112204-07-28 10:03 G	42702937.79	42702937.92	42702938.10	0.0088	0.0071
Moon	112204-07-28 11:58 G	42702937.90	42702938.00	42702938.17	0.0088	0.0076 *
Venus	112205-02-10 07:54 G	42703134.62	42703134.83	42703135.06	0.0088	0.0013
Venus	112205-09-23 20:51 G	42703360.17	42703360.37	42703360.60	0.0088	0.0023
Venus	112206-05-07 10:32 G	42703585.73	42703585.94	42703586.15	0.0088	0.0032
Venus	112206-12-18 23:30 G	42703811.29	42703811.48	42703811.68	0.0088	0.0042
Venus	112207-08-01 12:27 G	42704036.86	42704037.02	42704037.22	0.0088	0.0052
Venus	112208-03-14 01:54 G	42704262.43	42704262.58	42704262.75	0.0088	0.0061
Venus	112208-10-25 14:37 G	42704488.01	42704488.11	42704488.27	0.0088	0.0071
Venus	112209-06-08 04:18 G	42704713.60	42704713.68	42704713.78	0.0088	0.0080
Mars	112232-11-02 20:22 G	42713262.18	42713262.35	42713262.57	0.0088	0.0072
Mars	112234-09-30 04:03 G	42713958.38	42713958.67	42713958.98	0.0088	0.0043
Jupiter	112245-04-29 02:51 G	42717822.05	42717822.62	42717823.20	0.0088	0.0005
Mercury	112274-04-01 02:51 G	42728386.57	42728386.62	42728386.71	0.0089	0.0082
Mercury	112274-06-28 06:27 G	42728474.67	42728474.77	42728474.88	0.0089	0.0073
Mercury	112274-09-24 09:34 G	42728562.78	42728562.90	42728563.05	0.0089	0.0063
Mercury	112274-12-21 13:10 G	42728650.91	42728651.05	42728651.20	0.0089	0.0054
Mercury	112275-03-19 16:18 G	42728739.03	42728739.18	42728739.36	0.0089	0.0044
Mercury	112275-06-15 19:54 G	42728827.16	42728827.33	42728827.51	0.0089	0.0034
Mercury	112275-09-11 23:30 G	42728915.30	42728915.48	42728915.66	0.0089	0.0025
Mercury	112275-12-09 02:37 G	42729003.43	42729003.61	42729003.80	0.0089	0.0015
Mercury	112276-03-06 06:13 G	42729091.57	42729091.76	42729091.95	0.0089	0.0005

Mercury	112276-06-02 09:34 G	42729179.71	42729179.90	42729180.09	0.0089	0.0004
Mercury	112276-08-29 12:56 G	42729267.86	42729268.04	42729268.23	0.0089	0.0014
Mercury	112276-11-25 16:32 G	42729356.01	42729356.19	42729356.37	0.0089	0.0024
Mercury	112277-02-21 19:54 G	42729444.16	42729444.33	42729444.51	0.0089	0.0034
Mercury	112277-05-20 23:15 G	42729532.31	42729532.47	42729532.64	0.0089	0.0044
Mercury	112277-08-17 02:37 G	42729620.47	42729620.61	42729620.77	0.0089	0.0053
Mercury	112277-11-13 05:58 G	42729708.63	42729708.75	42729708.90	0.0089	0.0063
Mercury	112278-02-09 09:20 G	42729796.80	42729796.89	42729797.02	0.0089	0.0074
Mercury	112278-05-08 13:10 G	42729884.99	42729885.05	42729885.13	0.0089	0.0083
Moon	112280-01-14 20:37 G	42730501.36	42730501.36	42730501.37	0.0089	0.0089
Moon	112281-01-16 02:37 G	42730868.49	42730868.61	42730868.76	0.0089	0.0075
Earth	112281-01-16 05:30 G	42730868.58	42730868.73	42730868.89	0.0089	0.0071 *
Venus	112281-09-09 00:13 G	42731104.47	42731104.51	42731104.60	0.0089	0.0086
Earth	112282-01-18 17:01 G	42731236.02	42731236.21	42731236.45	0.0090	0.0049
Moon	112282-01-18 19:25 G	42731236.10	42731236.31	42731236.56	0.0090	0.0045 *
Venus	112282-04-22 13:25 G	42731329.96	42731330.06	42731330.19	0.0090	0.0076
Venus	112282-12-04 02:37 G	42731555.48	42731555.61	42731555.77	0.0090	0.0066
Moon	112283-01-21 05:01 G	42731603.49	42731603.71	42731603.96	0.0090	0.0030
Earth	112283-01-21 05:15 G	42731603.49	42731603.72	42731603.99	0.0090	0.0026 *
Venus	112283-07-17 15:34 G	42731781.00	42731781.15	42731781.34	0.0090	0.0056
Moon	112284-01-23 17:01 G	42731970.95	42731971.21	42731971.48	0.0090	0.0002
Earth	112284-01-23 17:58 G	42731970.99	42731971.25	42731971.50	0.0090	0.0002 *
Venus	112284-02-28 04:46 G	42732006.52	42732006.70	42732006.90	0.0090	0.0046
Venus	112284-10-10 17:44 G	42732232.05	42732232.24	42732232.45	0.0090	0.0036
Earth	112285-01-25 05:58 G	42732338.50	42732338.75	42732339.00	0.0090	0.0021
Moon	112285-01-25 07:25 G	42732338.58	42732338.81	42732339.06	0.0090	0.0018 *
Venus	112285-05-24 06:56 G	42732457.59	42732457.79	42732458.00	0.0090	0.0026
Venus	112286-01-04 19:54 G	42732683.12	42732683.33	42732683.55	0.0090	0.0016
Moon	112286-01-27 14:22 G	42732705.91	42732706.10	42732706.34	0.0090	0.0049
Earth	112286-01-27 17:58 G	42732706.04	42732706.25	42732706.48	0.0090	0.0044 *

Venus	112286-08-18 08:51 G	42732908.66	42732908.87	42732909.09	0.0090	0.0006
Earth	112287-01-30 05:44 G	42733073.58	42733073.74	42733073.92	0.0090	0.0067
Moon	112287-01-30 08:51 G	42733073.71	42733073.87	42733074.07	0.0090	0.0064 *
Venus	112287-03-31 21:49 G	42733134.20	42733134.41	42733134.63	0.0090	0.0005
Venus	112287-11-12 10:46 G	42733359.74	42733359.95	42733360.17	0.0090	0.0015
Venus	112288-06-24 23:30 G	42733585.28	42733585.48	42733585.70	0.0090	0.0025
Venus	112289-02-05 12:13 G	42733810.82	42733811.01	42733811.22	0.0090	0.0035
Venus	112289-09-19 01:25 G	42734036.37	42734036.56	42734036.74	0.0090	0.0044
Venus	112290-05-02 13:54 G	42734261.92	42734262.08	42734262.26	0.0090	0.0054
Venus	112290-12-14 02:51 G	42734487.48	42734487.62	42734487.78	0.0090	0.0064
Venus	112291-07-27 15:20 G	42734713.04	42734713.14	42734713.28	0.0090	0.0074
Venus	112292-03-09 04:03 G	42734938.62	42734938.67	42734938.77	0.0090	0.0084
Mars	112314-09-26 08:37 G	42743173.61	42743173.86	42743174.13	0.0090	0.0037
Mars	112316-08-19 23:01 G	42743867.26	42743867.46	42743867.67	0.0089	0.0062
Mercury	112354-08-04 13:54 G	42757731.07	42757731.08	42757731.10	0.0088	0.0087
Mercury	112354-10-31 15:06 G	42757819.09	42757819.13	42757819.20	0.0088	0.0081
Mercury	112355-01-27 16:32 G	42757907.13	42757907.19	42757907.28	0.0088	0.0074
Mercury	112355-04-25 17:58 G	42757995.18	42757995.25	42757995.35	0.0088	0.0068
Mercury	112355-07-22 19:39 G	42758083.23	42758083.32	42758083.42	0.0088	0.0060
Mercury	112355-10-18 21:06 G	42758171.28	42758171.38	42758171.49	0.0088	0.0053
Mercury	112356-01-14 22:32 G	42758259.33	42758259.44	42758259.56	0.0088	0.0047
Mercury	112356-04-11 23:44 G	42758347.38	42758347.49	42758347.62	0.0088	0.0040
Mercury	112356-07-09 01:25 G	42758435.43	42758435.56	42758435.69	0.0088	0.0033
Mercury	112356-10-05 02:51 G	42758523.49	42758523.62	42758523.75	0.0088	0.0026
Mercury	112357-01-01 04:18 G	42758611.54	42758611.68	42758611.81	0.0088	0.0019
Mercury	112357-03-30 05:30 G	42758699.60	42758699.73	42758699.87	0.0088	0.0013
Mercury	112357-06-26 06:56 G	42758787.66	42758787.79	42758787.93	0.0088	0.0006
Mercury	112357-09-22 08:22 G	42758875.72	42758875.85	42758875.99	0.0088	0.0001
Mercury	112357-12-19 09:49 G	42758963.77	42758963.91	42758964.04	0.0088	0.0007
Mercury	112358-03-17 11:15 G	42759051.83	42759051.97	42759052.10	0.0088	0.0014

Mercury	112358-06-13 12:27 G	42759139.89	42759140.02	42759140.16	0.0088	0.0021
Mercury	112358-09-09 13:39 G	42759227.95	42759228.07	42759228.21	0.0088	0.0028
Mercury	112358-12-06 15:20 G	42759316.01	42759316.14	42759316.26	0.0088	0.0034
Mercury	112359-03-04 16:32 G	42759404.08	42759404.19	42759404.31	0.0088	0.0041
Mercury	112359-05-31 17:58 G	42759492.14	42759492.25	42759492.36	0.0088	0.0047
Mercury	112359-08-27 19:10 G	42759580.20	42759580.30	42759580.41	0.0088	0.0054
Mercury	112359-11-23 20:22 G	42759668.27	42759668.35	42759668.46	0.0088	0.0061
Mercury	112360-02-19 22:03 G	42759756.33	42759756.42	42759756.51	0.0088	0.0067
Mercury	112360-05-17 23:01 G	42759844.40	42759844.46	42759844.55	0.0088	0.0074
Mercury	112360-08-14 00:42 G	42759932.48	42759932.53	42759932.58	0.0088	0.0080
Mercury	112360-11-10 01:54 G	42760020.57	42760020.58	42760020.61	0.0088	0.0087
Moon	112361-07-13 10:03 G	42760265.89	42760265.92	42760265.99	0.0088	0.0086
Earth	112362-07-16 00:27 G	42760633.39	42760633.52	42760633.71	0.0088	0.0069
Moon	112362-07-16 04:03 G	42760633.55	42760633.67	42760633.84	0.0088	0.0073 *
Venus	112363-03-13 08:08 G	42760873.80	42760873.84	42760873.93	0.0088	0.0084
Moon	112363-07-18 08:51 G	42761000.66	42761000.87	42761001.10	0.0088	0.0043
Earth	112363-07-18 12:13 G	42761000.81	42761001.01	42761001.24	0.0088	0.0047 *
Venus	112363-10-24 21:34 G	42761099.29	42761099.40	42761099.52	0.0088	0.0074
Venus	112364-06-06 10:18 G	42761324.80	42761324.93	42761325.10	0.0088	0.0065
Earth	112364-07-19 23:30 G	42761368.24	42761368.48	42761368.74	0.0088	0.0025
Moon	112364-07-20 02:22 G	42761368.36	42761368.60	42761368.86	0.0088	0.0029 *
Venus	112365-01-17 23:44 G	42761550.32	42761550.49	42761550.66	0.0088	0.0055
Moon	112365-07-22 09:34 G	42761735.65	42761735.90	42761736.15	0.0088	0.0001
Earth	112365-07-22 11:01 G	42761735.70	42761735.96	42761736.22	0.0088	0.0003 *
Venus	112365-08-31 12:13 G	42761775.84	42761776.01	42761776.22	0.0088	0.0046
Venus	112366-04-14 01:39 G	42762001.37	42762001.57	42762001.78	0.0088	0.0036
Earth	112366-07-24 22:03 G	42762103.17	42762103.42	42762103.68	0.0088	0.0019
Moon	112366-07-24 22:32 G	42762103.19	42762103.44	42762103.72	0.0088	0.0016 *
Venus	112366-11-25 14:37 G	42762226.90	42762227.11	42762227.33	0.0088	0.0027
Venus	112367-07-09 03:49 G	42762452.44	42762452.66	42762452.88	0.0088	0.0017



Earth	112367-07-27 09:06 G	42762470.67	42762470.88	42762471.13	0.0088	0.0041
Moon	112367-07-27 10:32 G	42762470.72	42762470.94	42762471.16	0.0088	0.0045 *
Venus	112368-02-19 16:32 G	42762677.98	42762678.19	42762678.42	0.0088	0.0008
Moon	112368-07-28 17:58 G	42762838.07	42762838.25	42762838.47	0.0088	0.0059
Earth	112368-07-28 20:22 G	42762838.19	42762838.35	42762838.55	0.0088	0.0063 *
Venus	112368-10-02 05:44 G	42762903.52	42762903.74	42762903.96	0.0088	0.0002
Venus	112369-05-15 18:56 G	42763129.07	42763129.29	42763129.51	0.0088	0.0012
Earth	112369-07-31 07:25 G	42763205.77	42763205.81	42763205.90	0.0088	0.0085
Venus	112369-12-27 07:54 G	42763354.62	42763354.83	42763355.06	0.0088	0.0022
Venus	112370-08-09 21:06 G	42763580.18	42763580.38	42763580.59	0.0088	0.0031
Venus	112371-03-23 10:03 G	42763805.73	42763805.92	42763806.13	0.0088	0.0041
Venus	112371-11-03 23:30 G	42764031.30	42764031.48	42764031.66	0.0088	0.0050
Venus	112372-06-16 12:27 G	42764256.87	42764257.02	42764257.20	0.0088	0.0060
Venus	112373-01-28 01:25 G	42764482.45	42764482.56	42764482.72	0.0088	0.0070
Venus	112373-09-10 14:51 G	42764708.04	42764708.12	42764708.23	0.0088	0.0079
Mars	112398-05-14 16:18 G	42773719.84	42773720.18	42773720.53	0.0088	0.0001
Jupiter	112411-07-01 08:22 G	42778515.38	42778515.85	42778516.36	0.0088	0.0045
Mercury	112438-09-30 22:32 G	42788469.41	42788469.44	42788469.50	0.0089	0.0086
Mercury	112438-12-28 01:39 G	42788557.50	42788557.57	42788557.68	0.0089	0.0077
Mercury	112439-03-26 05:15 G	42788645.61	42788645.72	42788645.85	0.0089	0.0067
Mercury	112439-06-22 08:22 G	42788733.73	42788733.85	42788734.01	0.0089	0.0058
Mercury	112439-09-18 11:58 G	42788821.85	42788822.00	42788822.17	0.0089	0.0048
Mercury	112439-12-15 15:34 G	42788909.98	42788910.15	42788910.32	0.0089	0.0039
Mercury	112440-03-12 18:42 G	42788998.11	42788998.28	42788998.47	0.0089	0.0029
Mercury	112440-06-08 22:18 G	42789086.25	42789086.43	42789086.61	0.0089	0.0019
Mercury	112440-09-05 01:39 G	42789174.39	42789174.57	42789174.76	0.0089	0.0010
Mercury	112440-12-02 05:01 G	42789262.53	42789262.71	42789262.90	0.0089	0.0002
Mercury	112441-02-28 08:37 G	42789350.67	42789350.86	42789351.04	0.0089	0.0010
Mercury	112441-05-27 11:58 G	42789438.82	42789439.00	42789439.18	0.0089	0.0019
Mercury	112441-08-23 15:06 G	42789526.97	42789527.13	42789527.32	0.0089	0.0030

Mercury	112441-11-19 18:27 G	42789615.12	42789615.27	42789615.46	0.0089	0.0040
Mercury	112442-02-15 22:18 G	42789703.27	42789703.43	42789703.59	0.0089	0.0049
Mercury	112442-05-15 01:39 G	42789791.43	42789791.57	42789791.72	0.0089	0.0059
Mercury	112442-08-11 05:01 G	42789879.60	42789879.71	42789879.84	0.0089	0.0069
Mercury	112442-11-07 08:22 G	42789967.78	42789967.85	42789967.96	0.0089	0.0079
Mercury	112443-02-03 11:44 G	42790055.98	42790055.99	42790056.04	0.0089	0.0089
Earth	112445-01-16 15:20 G	42790769.04	42790769.14	42790769.26	0.0089	0.0080
Moon	112445-01-16 15:49 G	42790769.08	42790769.16	42790769.30	0.0089	0.0080 *
Venus	112445-12-12 11:44 G	42791098.96	42791098.99	42791099.06	0.0090	0.0087
Moon	112446-01-19 00:42 G	42791136.34	42791136.53	42791136.74	0.0090	0.0059
Earth	112446-01-19 03:34 G	42791136.46	42791136.65	42791136.85	0.0090	0.0057 *
Venus	112446-07-26 00:56 G	42791324.44	42791324.54	42791324.66	0.0090	0.0077
Earth	112447-01-21 15:34 G	42791503.92	42791504.15	42791504.39	0.0090	0.0034
Moon	112447-01-21 18:27 G	42791504.05	42791504.27	42791504.52	0.0090	0.0033 *
Venus	112447-03-08 13:54 G	42791549.95	42791550.08	42791550.24	0.0090	0.0067
Venus	112447-10-20 03:06 G	42791775.47	42791775.63	42791775.81	0.0090	0.0057
Moon	112448-01-24 00:13 G	42791871.25	42791871.51	42791871.77	0.0090	0.0012
Earth	112448-01-24 03:49 G	42791871.40	42791871.66	42791871.91	0.0090	0.0011 *
Venus	112448-06-01 16:18 G	42792001.00	42792001.18	42792001.37	0.0090	0.0047
Venus	112449-01-13 05:15 G	42792226.53	42792226.72	42792226.92	0.0090	0.0037
Earth	112449-01-25 15:34 G	42792238.91	42792239.15	42792239.41	0.0090	0.0013
Moon	112449-01-25 19:10 G	42792239.05	42792239.30	42792239.56	0.0090	0.0014 *
Venus	112449-08-26 18:13 G	42792452.06	42792452.26	42792452.47	0.0090	0.0027
Moon	112450-01-28 01:25 G	42792606.33	42792606.56	42792606.79	0.0090	0.0034
Earth	112450-01-28 03:34 G	42792606.43	42792606.65	42792606.90	0.0090	0.0036 *
Venus	112450-04-09 07:25 G	42792677.59	42792677.81	42792678.02	0.0090	0.0017
Venus	112450-11-20 20:22 G	42792903.14	42792903.35	42792903.57	0.0090	0.0007
Earth	112451-01-30 15:20 G	42792973.97	42792974.14	42792974.36	0.0090	0.0059
Moon	112451-01-30 17:44 G	42792974.06	42792974.24	42792974.45	0.0090	0.0059 *
Venus	112451-07-04 09:20 G	42793128.68	42793128.89	42793129.11	0.0090	0.0003

Moon	112452-02-02 03:20 G	42793341.54	42793341.64	42793341.76	0.0090	0.0080
Earth	112452-02-02 03:20 G	42793341.56	42793341.64	42793341.77	0.0090	0.0082 *
Venus	112452-02-14 22:18 G	42793354.22	42793354.43	42793354.65	0.0090	0.0013
Venus	112452-09-27 11:01 G	42793579.76	42793579.96	42793580.18	0.0090	0.0023
Venus	112453-05-10 23:58 G	42793805.30	42793805.50	42793805.71	0.0090	0.0033
Venus	112453-12-22 12:42 G	42794030.85	42794031.03	42794031.23	0.0090	0.0043
Venus	112454-08-05 01:25 G	42794256.40	42794256.56	42794256.75	0.0090	0.0053
Venus	112455-03-18 14:08 G	42794481.95	42794482.09	42794482.26	0.0090	0.0063
Venus	112455-10-30 03:20 G	42794707.52	42794707.64	42794707.77	0.0090	0.0072
Venus	112456-06-11 15:49 G	42794933.09	42794933.16	42794933.26	0.0090	0.0082
Mars	112478-05-11 23:44 G	42802937.35	42802937.49	42802937.68	0.0090	0.0074
Mars	112480-04-04 14:08 G	42803630.83	42803631.09	42803631.38	0.0090	0.0027
Mercury	112519-05-02 13:54 G	42817902.04	42817902.08	42817902.12	0.0088	0.0084
Mercury	112519-07-29 15:06 G	42817990.07	42817990.13	42817990.20	0.0088	0.0077
Mercury	112519-10-25 16:32 G	42818078.12	42818078.19	42818078.28	0.0088	0.0070
Mercury	112520-01-21 17:58 G	42818166.16	42818166.25	42818166.35	0.0088	0.0063
Mercury	112520-04-18 19:25 G	42818254.21	42818254.31	42818254.42	0.0088	0.0056
Mercury	112520-07-15 21:06 G	42818342.27	42818342.38	42818342.49	0.0088	0.0049
Mercury	112520-10-11 22:18 G	42818430.32	42818430.43	42818430.56	0.0088	0.0043
Mercury	112521-01-07 23:44 G	42818518.37	42818518.49	42818518.62	0.0088	0.0036
Mercury	112521-04-06 01:10 G	42818606.43	42818606.55	42818606.68	0.0088	0.0029
Mercury	112521-07-03 02:37 G	42818694.48	42818694.61	42818694.74	0.0088	0.0023
Mercury	112521-09-29 04:03 G	42818782.54	42818782.67	42818782.81	0.0088	0.0016
Mercury	112521-12-26 05:30 G	42818870.59	42818870.73	42818870.87	0.0088	0.0009
Mercury	112522-03-24 06:56 G	42818958.65	42818958.79	42818958.92	0.0088	0.0003
Mercury	112522-06-20 08:08 G	42819046.71	42819046.84	42819046.98	0.0088	0.0005
Mercury	112522-09-16 09:34 G	42819134.77	42819134.90	42819135.04	0.0088	0.0011
Mercury	112522-12-13 11:01 G	42819222.83	42819222.96	42819223.09	0.0088	0.0018
Mercury	112523-03-11 12:27 G	42819310.89	42819311.02	42819311.15	0.0088	0.0024
Mercury	112523-06-07 13:39 G	42819398.95	42819399.07	42819399.20	0.0088	0.0031

Mercury	112523-09-03 14:51 G	42819487.01	42819487.12	42819487.25	0.0088	0.0038
Mercury	112523-11-30 16:32 G	42819575.07	42819575.19	42819575.30	0.0088	0.0044
Mercury	112524-02-26 17:44 G	42819663.13	42819663.24	42819663.35	0.0088	0.0051
Mercury	112524-05-24 19:10 G	42819751.20	42819751.30	42819751.40	0.0088	0.0057
Mercury	112524-08-20 20:22 G	42819839.26	42819839.35	42819839.45	0.0088	0.0064
Mercury	112524-11-16 21:34 G	42819927.33	42819927.40	42819927.49	0.0088	0.0071
Mercury	112525-02-12 23:01 G	42820015.41	42820015.46	42820015.53	0.0088	0.0077
Mercury	112525-05-12 00:13 G	42820103.49	42820103.51	42820103.56	0.0088	0.0084
Earth	112526-07-16 10:32 G	42820533.84	42820533.94	42820534.09	0.0088	0.0077
Moon	112526-07-16 11:58 G	42820533.89	42820534.00	42820534.16	0.0088	0.0076 *
Venus	112527-06-15 18:56 G	42820868.26	42820868.29	42820868.37	0.0088	0.0085
Earth	112527-07-18 22:03 G	42820901.23	42820901.42	42820901.63	0.0088	0.0055
Moon	112527-07-18 22:03 G	42820901.25	42820901.42	42820901.63	0.0088	0.0057 *
Venus	112528-01-27 08:22 G	42821093.74	42821093.85	42821093.97	0.0088	0.0075
Moon	112528-07-20 07:25 G	42821268.57	42821268.81	42821269.08	0.0088	0.0031
Earth	112528-07-20 09:34 G	42821268.66	42821268.90	42821269.14	0.0088	0.0033 *
Venus	112528-09-08 21:06 G	42821319.25	42821319.38	42821319.54	0.0088	0.0066
Venus	112529-04-22 10:03 G	42821544.77	42821544.92	42821545.11	0.0088	0.0057
Earth	112529-07-22 20:37 G	42821636.11	42821636.36	42821636.62	0.0088	0.0011
Moon	112529-07-22 22:46 G	42821636.21	42821636.45	42821636.71	0.0088	0.0013 *
Venus	112529-12-03 23:15 G	42821770.30	42821770.47	42821770.67	0.0088	0.0047
Venus	112530-07-17 12:13 G	42821995.82	42821996.01	42821996.22	0.0088	0.0038
Moon	112530-07-25 04:18 G	42822003.43	42822003.68	42822003.95	0.0088	0.0013
Earth	112530-07-25 07:54 G	42822003.58	42822003.83	42822004.09	0.0088	0.0011 *
Venus	112531-02-28 01:10 G	42822221.35	42822221.55	42822221.77	0.0088	0.0028
Earth	112531-07-27 18:56 G	42822371.06	42822371.29	42822371.54	0.0088	0.0033
Moon	112531-07-27 22:32 G	42822371.21	42822371.44	42822371.70	0.0088	0.0031 *
Venus	112531-10-11 14:08 G	42822446.88	42822447.09	42822447.32	0.0088	0.0019
Venus	112532-05-24 03:34 G	42822672.43	42822672.65	42822672.87	0.0088	0.0009
Moon	112532-07-29 02:51 G	42822738.43	42822738.62	42822738.83	0.0088	0.0056

Earth	112532-07-29 06:13 G	42822738.57	42822738.76	42822738.97	0.0088	0.0055 *
Venus	112533-01-04 16:32 G	42822897.97	42822898.19	42822898.42	0.0088	0.0001
Earth	112533-07-31 17:01 G	42823106.12	42823106.21	42823106.36	0.0088	0.0077
Moon	112533-07-31 20:22 G	42823106.22	42823106.35	42823106.49	0.0088	0.0075 *
Venus	112533-08-18 05:30 G	42823123.51	42823123.73	42823123.96	0.0088	0.0010
Venus	112534-03-31 18:27 G	42823349.06	42823349.27	42823349.49	0.0088	0.0020
Venus	112534-11-12 07:25 G	42823574.61	42823574.81	42823575.03	0.0088	0.0030
Venus	112535-06-25 20:51 G	42823800.17	42823800.37	42823800.57	0.0088	0.0039
Venus	112536-02-06 09:34 G	42824025.73	42824025.90	42824026.10	0.0088	0.0049
Venus	112536-09-18 22:32 G	42824251.30	42824251.44	42824251.63	0.0088	0.0059
Venus	112537-05-02 11:58 G	42824476.88	42824477.00	42824477.16	0.0088	0.0068
Venus	112537-12-14 00:56 G	42824702.47	42824702.54	42824702.67	0.0088	0.0078
Venus	112538-07-27 14:22 G	42824928.09	42824928.10	42824928.15	0.0088	0.0087
Mars	112561-12-27 04:32 G	42833481.40	42833481.69	42833482.01	0.0088	0.0041
Mars	112563-11-23 11:44 G	42834177.81	42834177.99	42834178.18	0.0088	0.0074
Mercury	112603-06-29 21:20 G	42848640.33	42848640.39	42848640.47	0.0089	0.0082
Mercury	112603-09-26 00:27 G	42848728.43	42848728.52	42848728.64	0.0089	0.0073
Mercury	112603-12-23 03:49 G	42848816.54	42848816.66	42848816.81	0.0089	0.0063
Mercury	112604-03-20 07:10 G	42848904.66	42848904.80	42848904.96	0.0089	0.0054
Mercury	112604-06-16 10:46 G	42848992.79	42848992.95	42848993.12	0.0089	0.0044
Mercury	112604-09-12 13:54 G	42849080.92	42849081.08	42849081.27	0.0089	0.0035
Mercury	112604-12-09 17:30 G	42849169.05	42849169.23	42849169.41	0.0089	0.0025
Mercury	112605-03-07 20:51 G	42849257.19	42849257.37	42849257.56	0.0089	0.0015
Mercury	112605-06-04 00:27 G	42849345.33	42849345.52	42849345.71	0.0089	0.0005
Mercury	112605-08-31 03:49 G	42849433.47	42849433.66	42849433.85	0.0089	0.0004
Mercury	112605-11-27 07:10 G	42849521.62	42849521.80	42849521.99	0.0089	0.0014
Mercury	112606-02-23 10:32 G	42849609.76	42849609.94	42849610.13	0.0089	0.0024
Mercury	112606-05-22 14:08 G	42849697.91	42849698.09	42849698.26	0.0089	0.0034
Mercury	112606-08-18 17:15 G	42849786.07	42849786.22	42849786.40	0.0089	0.0044
Mercury	112606-11-14 20:37 G	42849874.23	42849874.36	42849874.53	0.0089	0.0054

Mercury	112607-02-11 00:13 G	42849962.39	42849962.51	42849962.65	0.0089	0.0063
Mercury	112607-05-10 03:34 G	42850050.56	42850050.65	42850050.77	0.0089	0.0073
Mercury	112607-08-06 07:25 G	42850138.74	42850138.81	42850138.88	0.0089	0.0083
Earth	112609-01-18 00:27 G	42850669.51	42850669.52	42850669.56	0.0089	0.0089
Moon	112609-01-18 04:18 G	42850669.63	42850669.68	42850669.75	0.0089	0.0087
Moon	112610-01-20 09:34 G	42851036.76	42851036.90	42851037.09	0.0089	0.0068
Earth	112610-01-20 12:42 G	42851036.87	42851037.03	42851037.22	0.0089	0.0066 *
Venus	112610-03-17 23:01 G	42851093.42	42851093.46	42851093.50	0.0089	0.0088
Venus	112610-10-29 11:44 G	42851318.91	42851318.99	42851319.11	0.0090	0.0079
Earth	112611-01-23 00:56 G	42851404.32	42851404.54	42851404.76	0.0090	0.0043
Moon	112611-01-23 03:06 G	42851404.41	42851404.63	42851404.88	0.0090	0.0041 *
Venus	112611-06-12 00:42 G	42851544.41	42851544.53	42851544.69	0.0090	0.0069
Venus	112612-01-23 13:54 G	42851769.93	42851770.08	42851770.26	0.0090	0.0059
Moon	112612-01-25 11:58 G	42851771.76	42851772.00	42851772.24	0.0090	0.0022
Earth	112612-01-25 13:10 G	42851771.80	42851772.05	42851772.30	0.0090	0.0020 *
Venus	112612-09-05 02:51 G	42851995.45	42851995.62	42851995.82	0.0090	0.0049
Moon	112613-01-27 00:42 G	42852139.27	42852139.53	42852139.80	0.0090	0.0004
Earth	112613-01-27 01:10 G	42852139.30	42852139.55	42852139.81	0.0090	0.0003 *
Venus	112613-04-18 16:03 G	42852220.98	42852221.17	42852221.37	0.0090	0.0039
Venus	112613-11-30 05:15 G	42852446.52	42852446.72	42852446.93	0.0090	0.0029
Earth	112614-01-29 12:56 G	42852506.80	42852507.04	42852507.29	0.0090	0.0026
Moon	112614-01-29 14:08 G	42852506.86	42852507.09	42852507.34	0.0090	0.0025 *
Venus	112614-07-13 18:13 G	42852672.06	42852672.26	42852672.48	0.0090	0.0019
Moon	112615-01-31 22:18 G	42852874.23	42852874.43	42852874.66	0.0090	0.0051
Earth	112615-02-01 00:42 G	42852874.34	42852874.53	42852874.77	0.0090	0.0050 *
Venus	112615-02-24 07:25 G	42852897.59	42852897.81	42852898.02	0.0090	0.0009
Venus	112615-10-07 20:22 G	42853123.13	42853123.35	42853123.57	0.0090	0.0001
Earth	112616-02-03 12:42 G	42853241.91	42853242.03	42853242.21	0.0090	0.0073
Moon	112616-02-03 16:46 G	42853242.05	42853242.20	42853242.35	0.0090	0.0071 *
Venus	112616-05-20 09:20 G	42853348.68	42853348.89	42853349.11	0.0090	0.0011

Venus	112616-12-31 22:03 G	42853574.22	42853574.42	42853574.64	0.0090	0.0022
Venus	112617-08-14 11:01 G	42853799.77	42853799.96	42853800.18	0.0090	0.0032
Venus	112618-03-27 23:44 G	42854025.32	42854025.49	42854025.70	0.0090	0.0042
Venus	112618-11-08 13:10 G	42854250.87	42854251.05	42854251.23	0.0090	0.0051
Venus	112619-06-22 01:54 G	42854476.43	42854476.58	42854476.75	0.0090	0.0061
Venus	112620-02-02 14:37 G	42854701.99	42854702.11	42854702.25	0.0090	0.0071
Venus	112620-09-15 03:06 G	42854927.56	42854927.63	42854927.75	0.0090	0.0081
Mars	112643-11-21 05:58 G	42863394.47	42863394.75	42863395.04	0.0090	0.0011
Mars	112645-10-14 19:10 G	42864088.30	42864088.30	42864088.34	0.0089	0.0089
Jupiter	112654-06-14 19:10 G	42867253.09	42867253.30	42867253.63	0.0089	0.0077
Mercury	112683-11-01 11:58 G	42877984.99	42877985.00	42877985.03	0.0088	0.0087
Mercury	112684-01-28 13:25 G	42878073.01	42878073.06	42878073.12	0.0088	0.0080
Mercury	112684-04-25 14:51 G	42878161.05	42878161.12	42878161.20	0.0088	0.0073
Mercury	112684-07-22 16:32 G	42878249.10	42878249.19	42878249.28	0.0088	0.0066
Mercury	112684-10-18 17:44 G	42878337.15	42878337.24	42878337.35	0.0088	0.0060
Mercury	112685-01-14 19:10 G	42878425.20	42878425.30	42878425.42	0.0088	0.0053
Mercury	112685-04-12 20:37 G	42878513.25	42878513.36	42878513.48	0.0088	0.0046
Mercury	112685-07-09 22:03 G	42878601.30	42878601.42	42878601.55	0.0088	0.0039
Mercury	112685-10-05 23:29 G	42878689.36	42878689.48	42878689.61	0.0088	0.0033
Mercury	112686-01-02 00:56 G	42878777.41	42878777.54	42878777.68	0.0088	0.0026
Mercury	112686-03-31 02:22 G	42878865.47	42878865.60	42878865.74	0.0088	0.0019
Mercury	112686-06-27 03:49 G	42878953.53	42878953.66	42878953.80	0.0088	0.0012
Mercury	112686-09-23 05:15 G	42879041.58	42879041.72	42879041.86	0.0088	0.0006
Mercury	112686-12-20 06:41 G	42879129.64	42879129.78	42879129.91	0.0088	0.0002
Mercury	112687-03-18 07:53 G	42879217.70	42879217.83	42879217.97	0.0088	0.0008
Mercury	112687-06-14 09:20 G	42879305.76	42879305.89	42879306.03	0.0088	0.0015
Mercury	112687-09-10 10:46 G	42879393.82	42879393.95	42879394.08	0.0088	0.0021
Mercury	112687-12-07 11:58 G	42879481.88	42879482.00	42879482.13	0.0088	0.0028
Mercury	112688-03-04 13:25 G	42879569.94	42879570.06	42879570.19	0.0088	0.0034
Mercury	112688-05-31 14:51 G	42879658.00	42879658.12	42879658.24	0.0088	0.0041

Mercury	112688-08-27 16:03 G	42879746.06	42879746.17	42879746.29	0.0088	0.0048
Mercury	112688-11-23 17:29 G	42879834.13	42879834.23	42879834.34	0.0088	0.0054
Mercury	112689-02-19 18:41 G	42879922.19	42879922.28	42879922.39	0.0088	0.0061
Mercury	112689-05-18 20:22 G	42880010.26	42880010.35	42880010.43	0.0088	0.0067
Mercury	112689-08-14 21:20 G	42880098.33	42880098.39	42880098.47	0.0088	0.0074
Mercury	112689-11-10 23:01 G	42880186.41	42880186.46	42880186.51	0.0088	0.0080
Mercury	112690-02-06 23:58 G	42880274.50	42880274.50	42880274.53	0.0088	0.0087
Moon	112690-07-16 17:01 G	42880434.16	42880434.21	42880434.30	0.0088	0.0084
Earth	112690-07-16 20:37 G	42880434.31	42880434.36	42880434.42	0.0088	0.0085
Earth	112691-07-19 07:10 G	42880801.65	42880801.80	42880802.01	0.0088	0.0064
Moon	112691-07-19 11:15 G	42880801.81	42880801.97	42880802.16	0.0088	0.0064 *
Venus	112691-09-18 05:44 G	42880862.72	42880862.74	42880862.81	0.0088	0.0086
Venus	112692-04-30 19:25 G	42881088.20	42881088.31	42881088.42	0.0088	0.0076
Moon	112692-07-20 15:49 G	42881168.93	42881169.16	42881169.39	0.0088	0.0040
Earth	112692-07-20 18:41 G	42881169.07	42881169.28	42881169.53	0.0088	0.0042 *
Venus	112692-12-12 08:08 G	42881313.71	42881313.84	42881313.99	0.0088	0.0067
Earth	112693-07-23 06:13 G	42881536.52	42881536.76	42881537.02	0.0088	0.0020
Moon	112693-07-23 09:34 G	42881536.65	42881536.90	42881537.16	0.0088	0.0021 *
Venus	112693-07-25 20:51 G	42881539.22	42881539.37	42881539.56	0.0088	0.0058
Venus	112694-03-08 10:03 G	42881764.74	42881764.92	42881765.11	0.0088	0.0048
Moon	112694-07-25 16:17 G	42881903.93	42881904.18	42881904.43	0.0088	0.0003
Earth	112694-07-25 17:58 G	42881903.99	42881904.25	42881904.51	0.0088	0.0003 *
Venus	112694-10-19 22:46 G	42881990.27	42881990.45	42881990.67	0.0088	0.0039
Venus	112695-06-02 12:13 G	42882215.81	42882216.01	42882216.23	0.0088	0.0029
Earth	112695-07-28 04:46 G	42882271.46	42882271.70	42882271.96	0.0088	0.0025
Moon	112695-07-28 05:29 G	42882271.49	42882271.73	42882272.01	0.0088	0.0024 *
Venus	112696-01-14 01:10 G	42882441.34	42882441.55	42882441.77	0.0088	0.0020
Earth	112696-07-29 16:03 G	42882638.96	42882639.17	42882639.40	0.0088	0.0047
Moon	112696-07-29 16:46 G	42882638.99	42882639.20	42882639.41	0.0088	0.0048 *
Venus	112696-08-26 14:22 G	42882666.88	42882667.10	42882667.32	0.0088	0.0010



Venus	112697-04-09 03:20 G	42882892.42	42882892.64	42882892.86	0.0088	0.0001
Moon	112697-08-01 01:10 G	42883006.39	42883006.55	42883006.73	0.0088	0.0068
Earth	112697-08-01 03:05 G	42883006.50	42883006.63	42883006.82	0.0088	0.0069 *
Venus	112697-11-20 16:17 G	42883117.96	42883118.18	42883118.41	0.0088	0.0009
Venus	112698-07-04 05:15 G	42883343.51	42883343.72	42883343.95	0.0088	0.0019
Venus	112699-02-14 18:13 G	42883569.06	42883569.26	42883569.48	0.0088	0.0029
Venus	112699-09-28 07:25 G	42883794.61	42883794.81	42883795.02	0.0088	0.0038
Venus	112700-05-11 20:22 G	42884020.18	42884020.35	42884020.55	0.0088	0.0048
Venus	112700-12-23 09:34 G	42884245.74	42884245.90	42884246.08	0.0088	0.0057
Venus	112701-08-05 22:17 G	42884471.31	42884471.43	42884471.60	0.0088	0.0067
Venus	112702-03-19 11:44 G	42884696.89	42884696.99	42884697.11	0.0088	0.0076
Venus	112702-10-31 00:27 G	42884922.50	42884922.52	42884922.60	0.0088	0.0086
Mars	112725-08-11 17:58 G	42893243.19	42893243.25	42893243.40	0.0088	0.0084
Mars	112727-07-08 23:15 G	42893939.16	42893939.47	42893939.80	0.0088	0.0031
Mercury	112767-12-29 16:32 G	42908723.16	42908723.19	42908723.25	0.0089	0.0087
Mercury	112768-03-26 19:53 G	42908811.25	42908811.33	42908811.43	0.0089	0.0077
Mercury	112768-06-22 23:29 G	42908899.36	42908899.48	42908899.60	0.0089	0.0068
Mercury	112768-09-19 02:37 G	42908987.48	42908987.61	42908987.76	0.0089	0.0058
Mercury	112768-12-16 06:13 G	42909075.60	42909075.76	42909075.91	0.0089	0.0049
Mercury	112769-03-14 09:20 G	42909163.73	42909163.89	42909164.07	0.0089	0.0039
Mercury	112769-06-10 12:41 G	42909251.86	42909252.03	42909252.22	0.0089	0.0030
Mercury	112769-09-06 16:03 G	42909340.00	42909340.17	42909340.36	0.0089	0.0020
Mercury	112769-12-03 19:39 G	42909428.13	42909428.32	42909428.51	0.0089	0.0010
Mercury	112770-03-01 23:01 G	42909516.27	42909516.46	42909516.65	0.0089	0.0001
Mercury	112770-05-29 02:22 G	42909604.42	42909604.60	42909604.79	0.0089	0.0009
Mercury	112770-08-25 05:44 G	42909692.56	42909692.74	42909692.93	0.0089	0.0019
Mercury	112770-11-21 09:05 G	42909780.71	42909780.88	42909781.07	0.0089	0.0029
Mercury	112771-02-17 12:27 G	42909868.86	42909869.02	42909869.20	0.0089	0.0039
Mercury	112771-05-16 15:49 G	42909957.02	42909957.16	42909957.33	0.0089	0.0049
Mercury	112771-08-12 19:10 G	42910045.18	42910045.30	42910045.46	0.0089	0.0059

Mercury	112771-11-08 23:01 G	42910133.34	42910133.46	42910133.59	0.0089	0.0068
Mercury	112772-02-05 02:22 G	42910221.52	42910221.60	42910221.70	0.0089	0.0078
Mercury	112772-05-03 05:44 G	42910309.72	42910309.74	42910309.79	0.0089	0.0088
Earth	112774-01-20 22:03 G	42910937.28	42910937.42	42910937.56	0.0089	0.0075
Moon	112774-01-20 23:01 G	42910937.32	42910937.46	42910937.62	0.0089	0.0072 *
Venus	112774-06-20 09:49 G	42911087.91	42911087.91	42911087.92	0.0090	0.0089
Moon	112775-01-23 07:25 G	42911304.62	42911304.81	42911305.03	0.0090	0.0056
Earth	112775-01-23 10:17 G	42911304.72	42911304.93	42911305.14	0.0090	0.0052 *
Venus	112775-01-31 22:46 G	42911313.36	42911313.45	42911313.56	0.0090	0.0080
Venus	112775-09-14 11:58 G	42911538.87	42911539.00	42911539.14	0.0090	0.0070
Earth	112776-01-25 22:17 G	42911672.19	42911672.43	42911672.67	0.0090	0.0029
Moon	112776-01-26 01:39 G	42911672.33	42911672.57	42911672.81	0.0090	0.0026 *
Venus	112776-04-27 00:27 G	42911764.39	42911764.52	42911764.71	0.0090	0.0061
Venus	112776-12-08 13:39 G	42911989.91	42911990.07	42911990.27	0.0090	0.0051
Moon	112777-01-27 06:41 G	42912039.53	42912039.78	42912040.04	0.0090	0.0010
Earth	112777-01-27 10:17 G	42912039.68	42912039.93	42912040.19	0.0090	0.0006 *
Venus	112777-07-22 02:51 G	42912215.44	42912215.62	42912215.83	0.0090	0.0041
Earth	112778-01-29 22:03 G	42912407.18	42912407.42	42912407.68	0.0090	0.0017
Moon	112778-01-30 01:39 G	42912407.33	42912407.57	42912407.83	0.0090	0.0022 *
Venus	112778-03-04 15:49 G	42912440.97	42912441.16	42912441.38	0.0090	0.0031
Venus	112778-10-16 05:01 G	42912666.50	42912666.71	42912666.93	0.0090	0.0021
Moon	112779-02-01 07:39 G	42912774.60	42912774.82	42912775.05	0.0090	0.0037
Earth	112779-02-01 09:49 G	42912774.70	42912774.91	42912775.16	0.0090	0.0041 *
Venus	112779-05-29 17:58 G	42912892.04	42912892.25	42912892.47	0.0090	0.0011
Venus	112780-01-10 07:10 G	42913117.58	42913117.80	42913118.02	0.0090	0.0001
Earth	112780-02-03 21:34 G	42913142.25	42913142.40	42913142.61	0.0090	0.0064
Moon	112780-02-03 23:58 G	42913142.34	42913142.50	42913142.68	0.0090	0.0067 *
Venus	112780-08-22 19:53 G	42913343.12	42913343.33	42913343.55	0.0090	0.0010
Moon	112781-02-05 09:05 G	42913509.81	42913509.88	42913510.00	0.0090	0.0083
Earth	112781-02-05 09:34 G	42913509.86	42913509.90	42913510.00	0.0090	0.0087 *

Venus	112781-04-05 08:51 G	42913568.67	42913568.87	42913569.09	0.0090	0.0020
Venus	112781-11-16 21:49 G	42913794.22	42913794.41	42913794.63	0.0090	0.0030
Venus	112782-06-30 10:46 G	42914019.77	42914019.95	42914020.16	0.0090	0.0040
Venus	112783-02-10 23:29 G	42914245.32	42914245.48	42914245.68	0.0090	0.0050
Venus	112783-09-24 12:41 G	42914470.87	42914471.03	42914471.20	0.0090	0.0059
Venus	112784-05-07 01:25 G	42914696.44	42914696.56	42914696.71	0.0090	0.0069
Venus	112784-12-18 14:22 G	42914922.01	42914922.10	42914922.22	0.0090	0.0079
Venus	112785-08-01 02:51 G	42915147.62	42915147.62	42915147.68	0.0090	0.0089
Mars	112807-07-07 17:58 G	42923158.03	42923158.25	42923158.51	0.0090	0.0049
Mars	112809-05-31 10:17 G	42923851.72	42923851.93	42923852.19	0.0090	0.0053
Jupiter	112820-08-16 09:05 G	42927946.41	42927946.88	42927947.39	0.0089	0.0028
Mercury	112848-07-29 11:29 G	42938155.96	42938155.98	42938156.04	0.0088	0.0084
Mercury	112848-10-25 12:56 G	42938243.99	42938244.04	42938244.12	0.0088	0.0077
Mercury	112849-01-21 14:37 G	42938332.04	42938332.11	42938332.20	0.0088	0.0070
Mercury	112849-04-19 16:03 G	42938420.08	42938420.17	42938420.27	0.0088	0.0063
Mercury	112849-07-16 17:29 G	42938508.13	42938508.23	42938508.34	0.0088	0.0056
Mercury	112849-10-12 19:10 G	42938596.18	42938596.30	42938596.41	0.0088	0.0049
Mercury	112850-01-08 20:22 G	42938684.24	42938684.35	42938684.48	0.0088	0.0043
Mercury	112850-04-06 21:49 G	42938772.29	42938772.41	42938772.54	0.0088	0.0036
Mercury	112850-07-03 23:15 G	42938860.35	42938860.47	42938860.60	0.0088	0.0029
Mercury	112850-09-30 00:41 G	42938948.40	42938948.53	42938948.67	0.0088	0.0022
Mercury	112850-12-27 02:08 G	42939036.46	42939036.59	42939036.73	0.0088	0.0016
Mercury	112851-03-25 03:34 G	42939124.51	42939124.65	42939124.79	0.0088	0.0009
Mercury	112851-06-21 05:01 G	42939212.57	42939212.71	42939212.84	0.0088	0.0003
Mercury	112851-09-17 06:27 G	42939300.63	42939300.77	42939300.90	0.0088	0.0005
Mercury	112851-12-14 07:39 G	42939388.69	42939388.82	42939388.96	0.0088	0.0011
Mercury	112852-03-11 09:05 G	42939476.75	42939476.88	42939477.01	0.0088	0.0018
Mercury	112852-06-07 10:32 G	42939564.81	42939564.94	42939565.07	0.0088	0.0024
Mercury	112852-09-03 11:44 G	42939652.87	42939652.99	42939653.12	0.0088	0.0031
Mercury	112852-11-30 12:56 G	42939740.93	42939741.04	42939741.17	0.0088	0.0038

Mercury	112853-02-26 14:37 G	42939828.99	42939829.11	42939829.22	0.0088	0.0044
Mercury	112853-05-25 15:49 G	42939917.06	42939917.16	42939917.27	0.0088	0.0051
Mercury	112853-08-21 17:15 G	42940005.12	42940005.22	42940005.32	0.0088	0.0057
Mercury	112853-11-17 18:27 G	42940093.19	42940093.27	42940093.37	0.0088	0.0064
Mercury	112854-02-13 19:39 G	42940181.26	42940181.32	42940181.41	0.0088	0.0071
Mercury	112854-05-12 21:05 G	42940269.33	42940269.38	42940269.45	0.0088	0.0077
Mercury	112854-08-08 22:17 G	42940357.41	42940357.43	42940357.49	0.0088	0.0084
Earth	112855-07-19 16:32 G	42940702.06	42940702.19	42940702.35	0.0088	0.0072
Moon	112855-07-19 17:29 G	42940702.08	42940702.23	42940702.41	0.0088	0.0069 *
Venus	112855-12-21 16:32 G	42940857.18	42940857.19	42940857.23	0.0088	0.0087
Earth	112856-07-21 03:49 G	42941069.46	42941069.66	42941069.89	0.0088	0.0050
Moon	112856-07-21 03:49 G	42941069.49	42941069.66	42941069.88	0.0088	0.0054 *
Venus	112856-08-03 05:15 G	42941082.64	42941082.72	42941082.84	0.0088	0.0078
Venus	112857-03-16 17:58 G	42941308.14	42941308.25	42941308.41	0.0088	0.0069
Moon	112857-07-23 12:56 G	42941436.80	42941437.04	42941437.31	0.0088	0.0026
Earth	112857-07-23 15:20 G	42941436.90	42941437.14	42941437.39	0.0088	0.0028 *
Venus	112857-10-28 07:10 G	42941533.65	42941533.80	42941533.98	0.0088	0.0059
Venus	112858-06-10 20:08 G	42941759.18	42941759.34	42941759.54	0.0088	0.0050
Earth	112858-07-26 02:37 G	42941804.36	42941804.61	42941804.87	0.0088	0.0006
Moon	112858-07-26 05:15 G	42941804.48	42941804.72	42941804.98	0.0088	0.0009 *
Venus	112859-01-22 09:20 G	42941984.70	42941984.89	42941985.10	0.0088	0.0040
Moon	112859-07-28 10:17 G	42942171.69	42942171.93	42942172.20	0.0088	0.0020
Earth	112859-07-28 14:08 G	42942171.83	42942172.09	42942172.35	0.0088	0.0016 *
Venus	112859-09-04 22:17 G	42942210.23	42942210.43	42942210.65	0.0088	0.0031
Venus	112860-04-17 11:29 G	42942435.77	42942435.98	42942436.20	0.0088	0.0021
Earth	112860-07-30 01:25 G	42942539.32	42942539.56	42942539.79	0.0088	0.0038
Moon	112860-07-30 05:01 G	42942539.47	42942539.71	42942539.95	0.0088	0.0035 *
Venus	112860-11-29 00:27 G	42942661.31	42942661.52	42942661.75	0.0088	0.0012
Venus	112861-07-12 13:39 G	42942886.85	42942887.07	42942887.29	0.0088	0.0002
Moon	112861-08-01 09:34 G	42942906.73	42942906.90	42942907.08	0.0088	0.0063

Earth	112861-08-01 12:41 G	42942906.85	42942907.03	42942907.22	0.0088	0.0060 *
Venus	112862-02-23 02:37 G	42943112.39	42943112.61	42943112.83	0.0088	0.0008
Earth	112862-08-03 23:58 G	42943274.42	42943274.50	42943274.59	0.0088	0.0082
Moon	112862-08-04 02:08 G	42943274.50	42943274.59	42943274.74	0.0088	0.0079 *
Venus	112862-10-06 15:34 G	42943337.94	42943338.15	42943338.37	0.0088	0.0017
Venus	112863-05-20 04:46 G	42943563.49	42943563.70	42943563.92	0.0088	0.0027
Venus	112863-12-31 17:44 G	42943789.05	42943789.24	42943789.45	0.0088	0.0037
Venus	112864-08-13 06:56 G	42944014.60	42944014.79	42944014.98	0.0088	0.0046
Venus	112865-03-26 19:39 G	42944240.16	42944240.32	42944240.51	0.0088	0.0056
Venus	112865-11-07 08:51 G	42944465.73	42944465.87	42944466.03	0.0088	0.0065
Venus	112866-06-20 21:49 G	42944691.32	42944691.41	42944691.55	0.0088	0.0075
Venus	112867-02-01 11:01 G	42944916.92	42944916.96	42944917.04	0.0088	0.0084
Mars	112891-02-19 11:29 G	42953700.65	42953700.98	42953701.33	0.0088	0.0012
Mercury	112932-09-25 15:05 G	42968894.07	42968894.13	42968894.21	0.0089	0.0083
Mercury	112932-12-22 18:13 G	42968982.17	42968982.26	42968982.38	0.0089	0.0074
Mercury	112933-03-20 21:49 G	42969070.29	42969070.41	42969070.54	0.0089	0.0064
Mercury	112933-06-17 00:56 G	42969158.41	42969158.54	42969158.70	0.0089	0.0055
Mercury	112933-09-13 04:32 G	42969246.53	42969246.69	42969246.85	0.0089	0.0045
Mercury	112933-12-10 07:39 G	42969334.66	42969334.82	42969335.00	0.0089	0.0036
Mercury	112934-03-08 11:15 G	42969422.79	42969422.97	42969423.15	0.0089	0.0026
Mercury	112934-06-04 14:37 G	42969510.93	42969511.11	42969511.30	0.0089	0.0016
Mercury	112934-08-31 17:58 G	42969599.07	42969599.25	42969599.44	0.0089	0.0007
Mercury	112934-11-27 21:20 G	42969687.21	42969687.39	42969687.58	0.0089	0.0004
Mercury	112935-02-24 00:41 G	42969775.35	42969775.53	42969775.72	0.0089	0.0013
Mercury	112935-05-23 04:17 G	42969863.50	42969863.68	42969863.86	0.0089	0.0023
Mercury	112935-08-19 07:25 G	42969951.64	42969951.81	42969952.00	0.0089	0.0033
Mercury	112935-11-15 10:46 G	42970039.80	42970039.95	42970040.13	0.0089	0.0043
Mercury	112936-02-11 14:08 G	42970127.95	42970128.09	42970128.26	0.0089	0.0052
Mercury	112936-05-09 17:58 G	42970216.11	42970216.25	42970216.39	0.0089	0.0062
Mercury	112936-08-05 21:05 G	42970304.28	42970304.38	42970304.51	0.0089	0.0072

Mercury	112936-11-02 00:41 G	42970392.46	42970392.53	42970392.62	0.0089	0.0082
Earth	112938-01-21 05:58 G	42970837.69	42970837.75	42970837.85	0.0089	0.0085
Moon	112939-01-23 16:03 G	42971204.98	42971205.17	42971205.37	0.0089	0.0057
Earth	112939-01-23 18:27 G	42971205.10	42971205.27	42971205.47	0.0089	0.0062 *
Venus	112939-05-06 08:51 G	42971307.81	42971307.87	42971307.98	0.0089	0.0082
Venus	112939-12-17 22:17 G	42971533.31	42971533.43	42971533.57	0.0090	0.0072
Earth	112940-01-26 06:27 G	42971572.56	42971572.77	42971573.02	0.0090	0.0039
Moon	112940-01-26 08:37 G	42971572.64	42971572.86	42971573.10	0.0090	0.0043 *
Venus	112940-07-30 11:15 G	42971758.83	42971758.97	42971759.14	0.0090	0.0062
Moon	112941-01-27 17:58 G	42971940.01	42971940.25	42971940.50	0.0090	0.0011
Earth	112941-01-27 18:56 G	42971940.04	42971940.29	42971940.55	0.0090	0.0015 *
Venus	112941-03-13 00:27 G	42971984.35	42971984.52	42971984.71	0.0090	0.0052
Venus	112941-10-24 13:39 G	42972209.88	42972210.07	42972210.27	0.0090	0.0042
Moon	112942-01-30 05:58 G	42972307.49	42972307.75	42972308.02	0.0090	0.0004
Earth	112942-01-30 06:56 G	42972307.54	42972307.79	42972308.05	0.0090	0.0008 *
Venus	112942-06-07 02:51 G	42972435.42	42972435.62	42972435.82	0.0090	0.0032
Venus	112943-01-18 15:49 G	42972660.95	42972661.16	42972661.37	0.0090	0.0022
Earth	112943-02-01 18:56 G	42972675.06	42972675.29	42972675.54	0.0090	0.0031
Moon	112943-02-01 20:37 G	42972675.14	42972675.36	42972675.60	0.0090	0.0036 *
Venus	112943-09-01 04:46 G	42972886.48	42972886.70	42972886.92	0.0090	0.0012
Moon	112944-02-04 04:17 G	42973042.47	42973042.68	42973042.90	0.0090	0.0049
Earth	112944-02-04 07:10 G	42973042.60	42973042.80	42973043.00	0.0090	0.0054 *
Venus	112944-04-13 17:44 G	42973112.02	42973112.24	42973112.46	0.0090	0.0002
Venus	112944-11-25 06:56 G	42973337.57	42973337.79	42973338.00	0.0090	0.0008
Earth	112945-02-05 18:41 G	42973410.16	42973410.28	42973410.42	0.0090	0.0077
Moon	112945-02-05 22:03 G	42973410.34	42973410.42	42973410.54	0.0090	0.0082 *
Venus	112945-07-08 19:39 G	42973563.11	42973563.32	42973563.54	0.0090	0.0018
Venus	112946-02-19 08:37 G	42973788.66	42973788.86	42973789.07	0.0090	0.0028
Venus	112946-10-02 21:20 G	42974014.20	42974014.39	42974014.60	0.0090	0.0038
Venus	112947-05-16 10:17 G	42974239.76	42974239.93	42974240.12	0.0090	0.0048

Venus	112947-12-27 23:15 G	42974465.32	42974465.47	42974465.65	0.0090	0.0058
Venus	112948-08-09 11:58 G	42974690.88	42974691.00	42974691.16	0.0090	0.0068
Venus	112949-03-23 01:10 G	42974916.45	42974916.55	42974916.67	0.0090	0.0077
Venus	112949-11-03 13:53 G	42975142.05	42975142.08	42975142.15	0.0090	0.0087
Mars	112971-02-21 05:58 G	42982921.72	42982921.75	42982921.83	0.0090	0.0088
Mars	112973-01-14 22:32 G	42983615.17	42983615.44	42983615.74	0.0090	0.0015
Jupiter	112986-10-14 22:17 G	42988635.93	42988636.43	42988636.95	0.0089	0.0016

# 114TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 114th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	113013-01-29 09:49 G		42998238.91	42998238.91	42998238.93	0.0088	0.0087	
Mercury	113013-04-27 11:29 G		42998326.93	42998326.98	42998327.03	0.0088	0.0080	
Mercury	113013-07-24 12:41 G		42998414.97	42998415.03	42998415.12	0.0088	0.0074	
Mercury	113013-10-20 14:08 G		42998503.01	42998503.09	42998503.19	0.0088	0.0067	
Mercury	113014-01-16 15:34 G		42998591.06	42998591.15	42998591.26	0.0088	0.0060	
Mercury	113014-04-14 17:15 G		42998679.11	42998679.22	42998679.33	0.0088	0.0053	
Mercury	113014-07-11 18:41 G		42998767.17	42998767.28	42998767.40	0.0088	0.0046	
Mercury	113014-10-07 20:08 G		42998855.22	42998855.34	42998855.46	0.0088	0.0039	
Mercury	113015-01-03 21:20 G		42998943.27	42998943.39	42998943.53	0.0088	0.0033	
Mercury	113015-04-01 23:01 G		42999031.33	42999031.46	42999031.59	0.0088	0.0026	
Mercury	113015-06-29 00:27 G		42999119.39	42999119.52	42999119.65	0.0088	0.0019	

Mercury	113015-09-25 01:53 G	42999207.44	42999207.58	42999207.71	0.0088	0.0012
Mercury	113015-12-22 03:20 G	42999295.50	42999295.64	42999295.77	0.0088	0.0006
Mercury	113016-03-19 04:32 G	42999383.56	42999383.69	42999383.83	0.0088	0.0003
Mercury	113016-06-15 05:58 G	42999471.62	42999471.75	42999471.89	0.0088	0.0008
Mercury	113016-09-11 07:25 G	42999559.68	42999559.81	42999559.94	0.0088	0.0014
Mercury	113016-12-08 08:51 G	42999647.74	42999647.87	42999648.00	0.0088	0.0021
Mercury	113017-03-06 10:03 G	42999735.80	42999735.92	42999736.05	0.0088	0.0028
Mercury	113017-06-02 11:29 G	42999823.86	42999823.98	42999824.11	0.0088	0.0034
Mercury	113017-08-29 12:41 G	42999911.92	42999912.03	42999912.16	0.0088	0.0041
Mercury	113017-11-25 14:08 G	42999999.98	43000000.09	43000000.21	0.0088	0.0048
Mercury	113018-02-21 15:34 G	43000088.05	43000088.15	43000088.26	0.0088	0.0054
Mercury	113018-05-20 16:46 G	43000176.11	43000176.20	43000176.31	0.0088	0.0061
Mercury	113018-08-16 18:13 G	43000264.18	43000264.26	43000264.35	0.0088	0.0067
Mercury	113018-11-12 19:25 G	43000352.25	43000352.31	43000352.40	0.0088	0.0074
Mercury	113019-02-08 20:51 G	43000440.33	43000440.37	43000440.43	0.0088	0.0080
Mercury	113019-05-07 22:03 G	43000528.42	43000528.42	43000528.46	0.0088	0.0087
Moon	113019-07-20 22:46 G	43000602.41	43000602.45	43000602.53	0.0088	0.0085
Earth	113019-07-21 01:53 G	43000602.51	43000602.58	43000602.71	0.0088	0.0081 *
Earth	113020-07-22 12:56 G	43000969.87	43000970.04	43000970.25	0.0088	0.0059
Moon	113020-07-22 17:01 G	43000970.02	43000970.21	43000970.42	0.0088	0.0054 *
Venus	113020-11-06 15:49 G	43001077.08	43001077.16	43001077.27	0.0088	0.0079
Venus	113021-06-20 04:32 G	43001302.58	43001302.69	43001302.85	0.0088	0.0070
Moon	113021-07-24 21:20 G	43001337.18	43001337.39	43001337.63	0.0088	0.0041
Earth	113021-07-25 00:13 G	43001337.29	43001337.51	43001337.76	0.0088	0.0037 *
Venus	113022-01-31 17:58 G	43001528.09	43001528.25	43001528.41	0.0088	0.0060
Earth	113022-07-27 11:29 G	43001704.73	43001704.98	43001705.25	0.0088	0.0015
Moon	113022-07-27 14:37 G	43001704.84	43001705.11	43001705.37	0.0088	0.0010 *
Venus	113022-09-14 06:27 G	43001753.61	43001753.77	43001753.97	0.0088	0.0051
Venus	113023-04-27 19:53 G	43001979.14	43001979.33	43001979.53	0.0088	0.0041
Moon	113023-07-29 21:34 G	43002072.16	43002072.40	43002072.66	0.0088	0.0004



Earth	113023-07-29 22:46 G	43002072.20	43002072.45	43002072.72	0.0088	0.0008	*
Venus	113023-12-09 08:37 G	43002204.67	43002204.86	43002205.08	0.0088	0.0032	
Venus	113024-07-21 21:34 G	43002430.20	43002430.40	43002430.63	0.0088	0.0023	
Moon	113024-07-31 09:34 G	43002439.67	43002439.90	43002440.17	0.0088	0.0034	
Earth	113024-07-31 09:49 G	43002439.69	43002439.91	43002440.17	0.0088	0.0030	*
Venus	113025-03-04 10:46 G	43002655.73	43002655.95	43002656.17	0.0088	0.0013	
Earth	113025-08-02 21:20 G	43002807.19	43002807.39	43002807.61	0.0088	0.0052	
Moon	113025-08-02 22:17 G	43002807.24	43002807.43	43002807.66	0.0088	0.0048	*
Venus	113025-10-15 23:44 G	43002881.27	43002881.49	43002881.72	0.0088	0.0004	
Venus	113026-05-29 12:56 G	43003106.82	43003107.04	43003107.26	0.0088	0.0006	
Moon	113026-08-05 05:44 G	43003174.64	43003174.74	43003174.88	0.0088	0.0078	
Earth	113026-08-05 08:22 G	43003174.73	43003174.85	43003175.01	0.0088	0.0074	*
Venus	113027-01-10 01:53 G	43003332.37	43003332.58	43003332.80	0.0088	0.0016	
Venus	113027-08-23 14:51 G	43003557.91	43003558.12	43003558.34	0.0088	0.0026	
Venus	113028-04-05 03:49 G	43003783.47	43003783.66	43003783.87	0.0088	0.0035	
Venus	113028-11-16 16:46 G	43004009.02	43004009.20	43004009.41	0.0088	0.0045	
Venus	113029-06-30 05:58 G	43004234.59	43004234.75	43004234.94	0.0088	0.0054	
Venus	113030-02-10 18:41 G	43004460.15	43004460.28	43004460.46	0.0088	0.0064	
Venus	113030-09-24 07:53 G	43004685.73	43004685.83	43004685.97	0.0088	0.0073	
Venus	113031-05-07 20:51 G	43004911.32	43004911.37	43004911.47	0.0088	0.0083	
Mars	113054-10-05 00:13 G	43013462.27	43013462.51	43013462.81	0.0088	0.0055	
Mars	113056-08-31 03:49 G	43014158.43	43014158.66	43014158.93	0.0088	0.0060	
Mercury	113097-03-27 10:03 G	43028976.91	43028976.92	43028976.96	0.0089	0.0088	
Mercury	113097-06-23 13:39 G	43029064.99	43029065.07	43029065.16	0.0089	0.0079	
Mercury	113097-09-19 16:46 G	43029153.09	43029153.20	43029153.32	0.0089	0.0069	
Mercury	113097-12-16 19:53 G	43029241.21	43029241.33	43029241.48	0.0089	0.0060	
Mercury	113098-03-14 23:29 G	43029329.33	43029329.48	43029329.64	0.0089	0.0051	
Mercury	113098-06-11 02:37 G	43029417.46	43029417.61	43029417.79	0.0089	0.0041	
Mercury	113098-09-07 06:13 G	43029505.59	43029505.76	43029505.93	0.0089	0.0032	
Mercury	113098-12-04 09:20 G	43029593.72	43029593.89	43029594.08	0.0089	0.0022	

Mercury	113099-03-02 12:56 G	43029681.85	43029682.04	43029682.22	0.0089	0.0012
Mercury	113099-05-29 16:17 G	43029769.99	43029770.18	43029770.37	0.0089	0.0003
Mercury	113099-08-25 19:39 G	43029858.13	43029858.32	43029858.51	0.0089	0.0007
Mercury	113099-11-21 23:01 G	43029946.28	43029946.46	43029946.65	0.0089	0.0016
Mercury	113100-02-18 02:08 G	43030034.42	43030034.59	43030034.78	0.0089	0.0027
Mercury	113100-05-17 05:29 G	43030122.57	43030122.73	43030122.92	0.0089	0.0036
Mercury	113100-08-13 09:05 G	43030210.73	43030210.88	43030211.05	0.0089	0.0046
Mercury	113100-11-09 12:27 G	43030298.88	43030299.02	43030299.18	0.0089	0.0056
Mercury	113101-02-05 15:49 G	43030387.05	43030387.16	43030387.30	0.0089	0.0065
Mercury	113101-05-04 19:10 G	43030475.22	43030475.30	43030475.42	0.0089	0.0075
Mercury	113101-07-31 23:01 G	43030563.40	43030563.46	43030563.52	0.0089	0.0085
Moon	113102-01-22 12:41 G	43030738.03	43030738.03	43030738.06	0.0089	0.0089
Earth	113103-01-25 01:53 G	43031105.45	43031105.58	43031105.76	0.0089	0.0072
Moon	113103-01-25 04:32 G	43031105.56	43031105.69	43031105.83	0.0089	0.0076 *
Venus	113103-08-09 18:41 G	43031302.23	43031302.28	43031302.38	0.0089	0.0084
Moon	113104-01-27 11:29 G	43031472.77	43031472.98	43031473.22	0.0089	0.0044
Earth	113104-01-27 14:08 G	43031472.90	43031473.09	43031473.33	0.0089	0.0049 *
Venus	113104-03-22 08:08 G	43031527.73	43031527.84	43031527.98	0.0089	0.0074
Venus	113104-11-02 21:20 G	43031753.25	43031753.39	43031753.56	0.0090	0.0064
Earth	113105-01-29 02:37 G	43031840.37	43031840.61	43031840.86	0.0090	0.0025
Moon	113105-01-29 06:27 G	43031840.53	43031840.77	43031841.01	0.0090	0.0030 *
Venus	113105-06-16 10:32 G	43031978.78	43031978.94	43031979.12	0.0090	0.0054
Venus	113106-01-27 23:44 G	43032204.30	43032204.49	43032204.68	0.0090	0.0044
Moon	113106-01-31 11:29 G	43032207.73	43032207.98	43032208.24	0.0090	0.0004
Earth	113106-01-31 14:51 G	43032207.87	43032208.12	43032208.38	0.0090	0.0002 *
Venus	113106-09-10 12:41 G	43032429.83	43032430.03	43032430.23	0.0090	0.0034
Earth	113107-02-03 02:37 G	43032575.38	43032575.61	43032575.87	0.0090	0.0022
Moon	113107-02-03 06:13 G	43032575.51	43032575.76	43032576.02	0.0090	0.0017 *
Venus	113107-04-24 01:25 G	43032655.37	43032655.56	43032655.79	0.0090	0.0025
Venus	113107-12-05 14:37 G	43032880.91	43032881.11	43032881.34	0.0090	0.0015

Moon	113108-02-05 12:27 G	43032942.83	43032943.02	43032943.24	0.0090	0.0050
Earth	113108-02-05 14:22 G	43032942.90	43032943.10	43032943.34	0.0090	0.0045 *
Venus	113108-07-18 03:49 G	43033106.45	43033106.66	43033106.88	0.0090	0.0004
Earth	113109-02-07 02:22 G	43033310.45	43033310.60	43033310.79	0.0090	0.0068
Moon	113109-02-07 03:34 G	43033310.47	43033310.65	43033310.84	0.0090	0.0063 *
Venus	113109-02-28 16:46 G	43033331.98	43033332.20	43033332.42	0.0090	0.0006
Venus	113109-10-12 05:44 G	43033557.53	43033557.74	43033557.96	0.0090	0.0016
Venus	113110-05-25 18:27 G	43033783.07	43033783.27	43033783.49	0.0090	0.0026
Venus	113111-01-06 07:25 G	43034008.62	43034008.81	43034009.02	0.0090	0.0036
Venus	113111-08-19 20:22 G	43034234.17	43034234.35	43034234.55	0.0090	0.0046
Venus	113112-04-01 09:05 G	43034459.73	43034459.88	43034460.07	0.0090	0.0056
Venus	113112-11-12 22:32 G	43034685.29	43034685.44	43034685.59	0.0090	0.0065
Venus	113113-06-26 11:15 G	43034910.86	43034910.97	43034911.10	0.0090	0.0075
Venus	113114-02-06 23:58 G	43035136.45	43035136.50	43035136.59	0.0090	0.0085
Mars	113136-09-01 09:34 G	43043378.64	43043378.90	43043379.20	0.0090	0.0026
Mars	113138-07-27 01:39 G	43044072.42	43044072.57	43044072.72	0.0090	0.0076
Jupiter	113152-12-12 13:10 G	43049324.69	43049325.05	43049325.49	0.0089	0.0056
Mercury	113177-10-27 09:05 G	43058409.86	43058409.88	43058409.93	0.0088	0.0085
Mercury	113178-01-23 10:46 G	43058497.90	43058497.95	43058498.02	0.0088	0.0078
Mercury	113178-04-21 12:13 G	43058585.94	43058586.01	43058586.10	0.0088	0.0071
Mercury	113178-07-18 13:39 G	43058673.99	43058674.07	43058674.17	0.0088	0.0064
Mercury	113178-10-14 15:20 G	43058762.04	43058762.14	43058762.25	0.0088	0.0057
Mercury	113179-01-10 16:46 G	43058850.09	43058850.20	43058850.31	0.0088	0.0050
Mercury	113179-04-08 17:58 G	43058938.14	43058938.25	43058938.38	0.0088	0.0044
Mercury	113179-07-05 19:25 G	43059026.20	43059026.31	43059026.45	0.0088	0.0037
Mercury	113179-10-01 21:05 G	43059114.25	43059114.38	43059114.51	0.0088	0.0030
Mercury	113179-12-28 22:32 G	43059202.31	43059202.44	43059202.57	0.0088	0.0023
Mercury	113180-03-25 23:58 G	43059290.37	43059290.50	43059290.63	0.0088	0.0016
Mercury	113180-06-22 01:25 G	43059378.42	43059378.56	43059378.69	0.0088	0.0010
Mercury	113180-09-18 02:51 G	43059466.48	43059466.62	43059466.75	0.0088	0.0004

Mercury	113180-12-15 04:03 G	43059554.54	43059554.67	43059554.81	0.0088	0.0005
Mercury	113181-03-13 05:29 G	43059642.60	43059642.73	43059642.87	0.0088	0.0011
Mercury	113181-06-09 06:56 G	43059730.66	43059730.79	43059730.92	0.0088	0.0017
Mercury	113181-09-05 08:08 G	43059818.72	43059818.84	43059818.98	0.0088	0.0024
Mercury	113181-12-02 09:49 G	43059906.78	43059906.91	43059907.03	0.0088	0.0030
Mercury	113182-02-28 11:01 G	43059994.84	43059994.96	43059995.09	0.0088	0.0037
Mercury	113182-05-27 12:13 G	43060082.90	43060083.01	43060083.14	0.0088	0.0044
Mercury	113182-08-23 13:53 G	43060170.97	43060171.08	43060171.19	0.0088	0.0050
Mercury	113182-11-19 15:05 G	43060259.03	43060259.13	43060259.24	0.0088	0.0057
Mercury	113183-02-15 16:32 G	43060347.10	43060347.19	43060347.29	0.0088	0.0063
Mercury	113183-05-14 17:44 G	43060435.17	43060435.24	43060435.33	0.0088	0.0070
Moon	113183-07-21 09:05 G	43060502.84	43060502.88	43060502.97	0.0088	0.0085
Mercury	113183-08-10 19:10 G	43060523.24	43060523.30	43060523.37	0.0088	0.0076
Mercury	113183-11-06 20:22 G	43060611.32	43060611.35	43060611.40	0.0088	0.0083
Moon	113184-07-22 21:20 G	43060870.26	43060870.39	43060870.57	0.0088	0.0072
Earth	113184-07-22 21:34 G	43060870.26	43060870.40	43060870.59	0.0088	0.0068 *
Venus	113185-02-09 01:39 G	43061071.51	43061071.57	43061071.68	0.0088	0.0081
Earth	113185-07-25 08:51 G	43061237.67	43061237.87	43061238.11	0.0088	0.0046
Moon	113185-07-25 10:17 G	43061237.71	43061237.93	43061238.15	0.0088	0.0041 *
Venus	113185-09-22 14:51 G	43061297.00	43061297.12	43061297.26	0.0088	0.0071
Venus	113186-05-06 03:49 G	43061522.52	43061522.66	43061522.83	0.0088	0.0062
Moon	113186-07-27 17:15 G	43061604.99	43061605.22	43061605.49	0.0088	0.0029
Earth	113186-07-27 19:53 G	43061605.10	43061605.33	43061605.59	0.0088	0.0024 *
Venus	113186-12-17 16:32 G	43061748.03	43061748.19	43061748.39	0.0088	0.0053
Earth	113187-07-30 07:25 G	43061972.55	43061972.81	43061973.07	0.0088	0.0002
Moon	113187-07-30 10:46 G	43061972.69	43061972.95	43061973.20	0.0088	0.0003 *
Venus	113187-07-31 05:44 G	43061973.55	43061973.74	43061973.94	0.0088	0.0043
Venus	113188-03-12 18:27 G	43062199.08	43062199.27	43062199.49	0.0088	0.0034
Moon	113188-07-31 15:05 G	43062339.88	43062340.13	43062340.39	0.0088	0.0016
Earth	113188-07-31 18:27 G	43062340.03	43062340.27	43062340.53	0.0088	0.0021 *

Venus	113188-10-24 07:39 G	43062424.61	43062424.82	43062425.03	0.0088	0.0024
Venus	113189-06-06 20:37 G	43062650.15	43062650.36	43062650.59	0.0088	0.0015
Earth	113189-08-03 05:29 G	43062707.52	43062707.73	43062707.97	0.0088	0.0043
Moon	113189-08-03 09:05 G	43062707.68	43062707.88	43062708.12	0.0088	0.0048 *
Venus	113190-01-18 09:49 G	43062875.69	43062875.91	43062876.13	0.0088	0.0005
Moon	113190-08-05 14:51 G	43063074.94	43063075.12	43063075.30	0.0088	0.0060
Earth	113190-08-05 16:46 G	43063075.05	43063075.20	43063075.40	0.0088	0.0065 *
Venus	113190-08-31 22:46 G	43063101.23	43063101.45	43063101.67	0.0088	0.0005
Venus	113191-04-14 11:44 G	43063326.77	43063326.99	43063327.21	0.0088	0.0014
Earth	113191-08-08 04:03 G	43063442.66	43063442.67	43063442.73	0.0088	0.0087
Venus	113191-11-26 00:41 G	43063552.32	43063552.53	43063552.75	0.0088	0.0024
Venus	113192-07-08 13:39 G	43063777.88	43063778.07	43063778.29	0.0088	0.0034
Venus	113193-02-19 02:51 G	43064003.43	43064003.62	43064003.82	0.0088	0.0043
Venus	113193-10-02 15:34 G	43064228.99	43064229.15	43064229.35	0.0088	0.0053
Venus	113194-05-16 05:01 G	43064454.57	43064454.71	43064454.88	0.0088	0.0062
Venus	113194-12-27 17:44 G	43064680.14	43064680.24	43064680.40	0.0088	0.0072
Venus	113195-08-10 06:56 G	43064905.73	43064905.79	43064905.90	0.0088	0.0081
Mars	113220-04-14 14:08 G	43073919.76	43073920.09	43073920.44	0.0088	0.0015
Mercury	113261-12-23 08:37 G	43089147.80	43089147.86	43089147.91	0.0089	0.0085
Mercury	113262-03-21 11:29 G	43089235.90	43089235.98	43089236.09	0.0089	0.0076
Mercury	113262-06-17 14:51 G	43089324.01	43089324.12	43089324.25	0.0089	0.0066
Mercury	113262-09-13 18:27 G	43089412.13	43089412.27	43089412.41	0.0089	0.0057
Mercury	113262-12-10 21:34 G	43089500.25	43089500.40	43089500.56	0.0089	0.0047
Mercury	113263-03-09 00:41 G	43089588.37	43089588.53	43089588.71	0.0089	0.0038
Mercury	113263-06-05 04:17 G	43089676.50	43089676.68	43089676.86	0.0089	0.0028
Mercury	113263-09-01 07:25 G	43089764.64	43089764.81	43089765.00	0.0089	0.0019
Mercury	113263-11-28 11:01 G	43089852.77	43089852.96	43089853.15	0.0089	0.0009
Mercury	113264-02-24 14:22 G	43089940.91	43089941.10	43089941.29	0.0089	0.0001
Mercury	113264-05-22 17:29 G	43090029.05	43090029.23	43090029.43	0.0089	0.0011
Mercury	113264-08-18 21:05 G	43090117.20	43090117.38	43090117.56	0.0089	0.0020

Mercury	113264-11-15 00:13 G	43090205.34	43090205.51	43090205.70	0.0089	0.0030
Mercury	113265-02-11 03:34 G	43090293.49	43090293.65	43090293.83	0.0089	0.0039
Mercury	113265-05-10 07:10 G	43090381.65	43090381.80	43090381.96	0.0089	0.0049
Mercury	113265-08-06 10:32 G	43090469.81	43090469.94	43090470.09	0.0089	0.0059
Mercury	113265-11-02 13:39 G	43090557.97	43090558.07	43090558.21	0.0089	0.0069
Mercury	113266-01-29 17:01 G	43090646.14	43090646.21	43090646.32	0.0089	0.0079
Mercury	113266-04-27 20:51 G	43090734.35	43090734.37	43090734.41	0.0089	0.0088
Earth	113267-01-24 08:51 G	43091005.79	43091005.87	43091006.00	0.0089	0.0082
Moon	113267-01-24 11:58 G	43091005.90	43091006.00	43091006.15	0.0089	0.0079 *
Venus	113267-11-11 04:17 G	43091296.64	43091296.68	43091296.77	0.0089	0.0086
Moon	113268-01-26 19:10 G	43091373.14	43091373.30	43091373.49	0.0089	0.0063
Earth	113268-01-26 21:20 G	43091373.21	43091373.39	43091373.60	0.0089	0.0059 *
Venus	113268-06-23 17:44 G	43091522.14	43091522.24	43091522.37	0.0089	0.0076
Earth	113269-01-28 09:34 G	43091740.69	43091740.90	43091741.16	0.0089	0.0036
Moon	113269-01-28 10:17 G	43091740.70	43091740.93	43091741.20	0.0089	0.0032 *
Venus	113269-02-04 06:56 G	43091747.66	43091747.79	43091747.95	0.0089	0.0066
Venus	113269-09-17 20:08 G	43091973.18	43091973.34	43091973.52	0.0090	0.0056
Earth	113270-01-30 22:17 G	43092108.18	43092108.43	43092108.69	0.0090	0.0012
Moon	113270-01-30 22:17 G	43092108.19	43092108.43	43092108.68	0.0090	0.0016 *
Venus	113270-05-01 09:20 G	43092198.71	43092198.89	43092199.08	0.0090	0.0046
Venus	113270-12-12 22:46 G	43092424.25	43092424.45	43092424.65	0.0090	0.0036
Moon	113271-02-02 08:37 G	43092475.61	43092475.86	43092476.13	0.0090	0.0015
Earth	113271-02-02 10:17 G	43092475.68	43092475.93	43092476.19	0.0090	0.0012 *
Venus	113271-07-26 11:44 G	43092649.78	43092649.99	43092650.20	0.0090	0.0026
Earth	113272-02-04 22:17 G	43092843.20	43092843.43	43092843.67	0.0090	0.0035
Moon	113272-02-05 00:56 G	43092843.32	43092843.54	43092843.79	0.0090	0.0031 *
Venus	113272-03-08 00:27 G	43092875.32	43092875.52	43092875.75	0.0090	0.0017
Venus	113272-10-19 13:39 G	43093100.86	43093101.07	43093101.29	0.0090	0.0007
Moon	113273-02-06 06:41 G	43093210.62	43093210.78	43093210.99	0.0090	0.0062
Earth	113273-02-06 10:17 G	43093210.75	43093210.93	43093211.13	0.0090	0.0058 *

Venus	113273-06-02 02:51 G	43093326.40	43093326.62	43093326.83	0.0090	0.0004
Venus	113274-01-13 15:34 G	43093551.94	43093552.15	43093552.37	0.0090	0.0014
Earth	113274-02-08 22:03 G	43093578.33	43093578.42	43093578.54	0.0090	0.0081
Moon	113274-02-09 01:53 G	43093578.46	43093578.58	43093578.72	0.0090	0.0077 *
Venus	113274-08-27 04:32 G	43093777.49	43093777.69	43093777.91	0.0090	0.0024
Venus	113275-04-09 17:15 G	43094003.03	43094003.22	43094003.44	0.0090	0.0034
Venus	113275-11-21 06:13 G	43094228.59	43094228.76	43094228.97	0.0090	0.0044
Venus	113276-07-03 19:25 G	43094454.14	43094454.31	43094454.49	0.0090	0.0053
Venus	113277-02-14 08:08 G	43094679.70	43094679.84	43094680.00	0.0090	0.0063
Venus	113277-09-27 20:51 G	43094905.26	43094905.37	43094905.51	0.0090	0.0073
Venus	113278-05-11 09:34 G	43095130.84	43095130.90	43095131.01	0.0090	0.0083
Mars	113300-04-17 17:01 G	43103142.04	43103142.21	43103142.43	0.0090	0.0066
Mars	113302-03-12 11:58 G	43103835.76	43103836.00	43103836.28	0.0090	0.0037
Mercury	113342-07-25 08:37 G	43118580.83	43118580.86	43118580.92	0.0088	0.0082
Mercury	113342-10-21 10:17 G	43118668.87	43118668.93	43118669.01	0.0088	0.0075
Mercury	113343-01-17 11:44 G	43118756.91	43118756.99	43118757.09	0.0088	0.0068
Mercury	113343-04-15 13:25 G	43118844.96	43118845.06	43118845.16	0.0088	0.0061
Mercury	113343-07-12 14:51 G	43118933.01	43118933.12	43118933.23	0.0088	0.0054
Mercury	113343-10-08 16:03 G	43119021.06	43119021.17	43119021.29	0.0088	0.0048
Mercury	113344-01-04 17:29 G	43119109.12	43119109.23	43119109.36	0.0088	0.0041
Mercury	113344-04-01 19:10 G	43119197.17	43119197.30	43119197.43	0.0088	0.0034
Mercury	113344-06-28 20:37 G	43119285.23	43119285.36	43119285.49	0.0088	0.0027
Mercury	113344-09-24 21:49 G	43119373.29	43119373.41	43119373.55	0.0088	0.0021
Mercury	113344-12-21 23:29 G	43119461.34	43119461.48	43119461.61	0.0088	0.0014
Mercury	113345-03-20 00:56 G	43119549.40	43119549.54	43119549.67	0.0088	0.0007
Mercury	113345-06-16 02:22 G	43119637.46	43119637.60	43119637.73	0.0088	0.0003
Mercury	113345-09-12 03:34 G	43119725.52	43119725.65	43119725.79	0.0088	0.0007
Mercury	113345-12-09 05:01 G	43119813.58	43119813.71	43119813.85	0.0088	0.0013
Mercury	113346-03-07 06:27 G	43119901.64	43119901.77	43119901.90	0.0088	0.0020
Mercury	113346-06-03 07:53 G	43119989.70	43119989.83	43119989.96	0.0088	0.0026

Mercury	113346-08-30 09:05 G	43120077.76	43120077.88	43120078.01	0.0088	0.0033
Mercury	113346-11-26 10:32 G	43120165.82	43120165.94	43120166.07	0.0088	0.0040
Mercury	113347-02-22 11:58 G	43120253.89	43120254.00	43120254.12	0.0088	0.0046
Mercury	113347-05-21 13:10 G	43120341.95	43120342.05	43120342.17	0.0088	0.0053
Mercury	113347-08-17 14:51 G	43120430.02	43120430.12	43120430.22	0.0088	0.0059
Mercury	113347-11-13 16:03 G	43120518.09	43120518.17	43120518.26	0.0088	0.0066
Mercury	113348-02-09 17:15 G	43120606.16	43120606.22	43120606.31	0.0088	0.0073
Mercury	113348-05-07 18:41 G	43120694.23	43120694.28	43120694.34	0.0088	0.0079
Moon	113348-07-23 03:05 G	43120770.50	43120770.63	43120770.79	0.0088	0.0072
Earth	113348-07-23 06:13 G	43120770.66	43120770.76	43120770.91	0.0088	0.0077 *
Mercury	113348-08-03 19:53 G	43120782.32	43120782.33	43120782.37	0.0088	0.0086
Venus	113349-05-14 11:58 G	43121065.95	43121066.00	43121066.10	0.0088	0.0082
Earth	113349-07-25 17:01 G	43121138.03	43121138.21	43121138.44	0.0088	0.0055
Moon	113349-07-25 20:22 G	43121138.18	43121138.35	43121138.57	0.0088	0.0059 *
Venus	113349-12-26 00:41 G	43121291.43	43121291.53	43121291.68	0.0088	0.0073
Moon	113350-07-28 02:51 G	43121505.39	43121505.62	43121505.87	0.0088	0.0028
Earth	113350-07-28 04:17 G	43121505.46	43121505.68	43121505.94	0.0088	0.0033 *
Venus	113350-08-08 14:08 G	43121516.94	43121517.09	43121517.24	0.0088	0.0063
Venus	113351-03-22 02:37 G	43121742.45	43121742.61	43121742.80	0.0088	0.0054
Earth	113351-07-30 15:34 G	43121872.90	43121873.15	43121873.42	0.0088	0.0011
Moon	113351-07-30 16:03 G	43121872.92	43121873.17	43121873.45	0.0088	0.0015 *
Venus	113351-11-02 15:20 G	43121967.97	43121968.14	43121968.35	0.0088	0.0045
Venus	113352-06-15 04:32 G	43122193.49	43122193.69	43122193.90	0.0088	0.0035
Earth	113352-08-01 02:37 G	43122240.36	43122240.61	43122240.87	0.0088	0.0012
Moon	113352-08-01 03:05 G	43122240.39	43122240.63	43122240.88	0.0088	0.0016 *
Venus	113353-01-26 17:15 G	43122419.02	43122419.22	43122419.44	0.0088	0.0026
Moon	113353-08-03 11:15 G	43122607.73	43122607.97	43122608.24	0.0088	0.0029
Earth	113353-08-03 13:39 G	43122607.84	43122608.07	43122608.32	0.0088	0.0034 *
Venus	113353-09-09 06:27 G	43122644.55	43122644.77	43122644.99	0.0088	0.0016
Venus	113354-04-22 19:25 G	43122870.09	43122870.31	43122870.53	0.0088	0.0007



Earth	113354-08-06 00:41 G	43122975.34	43122975.53	43122975.74	0.0088	0.0056
Moon	113354-08-06 03:20 G	43122975.48	43122975.64	43122975.85	0.0088	0.0061 *
Venus	113354-12-04 08:22 G	43123095.63	43123095.85	43123096.07	0.0088	0.0003
Venus	113355-07-17 21:05 G	43123321.17	43123321.38	43123321.61	0.0088	0.0013
Moon	113355-08-08 08:37 G	43123342.73	43123342.86	43123343.01	0.0088	0.0073
Earth	113355-08-08 11:58 G	43123342.90	43123343.00	43123343.13	0.0088	0.0078 *
Venus	113356-02-28 10:17 G	43123546.72	43123546.93	43123547.15	0.0088	0.0022
Venus	113356-10-10 23:01 G	43123772.27	43123772.46	43123772.68	0.0088	0.0032
Venus	113357-05-24 12:27 G	43123997.83	43123998.02	43123998.22	0.0088	0.0041
Venus	113358-01-05 01:10 G	43124223.39	43124223.55	43124223.75	0.0088	0.0051
Venus	113358-08-18 14:22 G	43124448.95	43124449.10	43124449.27	0.0088	0.0060
Venus	113359-04-01 03:05 G	43124674.52	43124674.63	43124674.79	0.0088	0.0070
Venus	113359-11-12 16:17 G	43124900.11	43124900.18	43124900.30	0.0088	0.0079
Mars	113383-11-28 01:39 G	43133681.27	43133681.57	43133681.91	0.0088	0.0030
Mars	113385-10-24 02:22 G	43134377.57	43134377.60	43134377.72	0.0088	0.0086
Mercury	113426-09-21 05:58 G	43149318.70	43149318.75	43149318.84	0.0089	0.0083
Mercury	113426-12-18 09:49 G	43149406.80	43149406.91	43149407.01	0.0089	0.0073
Mercury	113427-03-16 12:41 G	43149494.92	43149495.03	43149495.17	0.0089	0.0064
Mercury	113427-06-12 16:03 G	43149583.03	43149583.17	43149583.33	0.0089	0.0054
Mercury	113427-09-08 19:25 G	43149671.16	43149671.31	43149671.48	0.0089	0.0045
Mercury	113427-12-05 22:46 G	43149759.28	43149759.45	43149759.62	0.0089	0.0035
Mercury	113428-03-03 02:08 G	43149847.41	43149847.59	43149847.77	0.0089	0.0026
Mercury	113428-05-30 05:29 G	43149935.55	43149935.73	43149935.91	0.0089	0.0016
Mercury	113428-08-26 08:51 G	43150023.68	43150023.87	43150024.05	0.0089	0.0007
Mercury	113428-11-22 12:13 G	43150111.82	43150112.01	43150112.19	0.0089	0.0003
Mercury	113429-02-18 15:20 G	43150199.96	43150200.14	43150200.33	0.0089	0.0013
Mercury	113429-05-17 18:41 G	43150288.11	43150288.28	43150288.47	0.0089	0.0022
Mercury	113429-08-13 22:03 G	43150376.25	43150376.42	43150376.60	0.0089	0.0032
Mercury	113429-11-10 01:25 G	43150464.40	43150464.56	43150464.73	0.0089	0.0041
Mercury	113430-02-06 04:32 G	43150552.56	43150552.69	43150552.86	0.0089	0.0052

Mercury	113430-05-05 08:22 G	43150640.71	43150640.85	43150640.99	0.0089	0.0061
Mercury	113430-08-01 11:29 G	43150728.88	43150728.98	43150729.11	0.0089	0.0071
Mercury	113430-10-28 14:51 G	43150817.06	43150817.12	43150817.22	0.0089	0.0081
Earth	113432-01-28 03:34 G	43151273.50	43151273.65	43151273.82	0.0089	0.0069
Moon	113432-01-28 06:56 G	43151273.64	43151273.79	43151273.99	0.0089	0.0065 *
Venus	113432-02-14 13:25 G	43151291.03	43151291.06	43151291.11	0.0089	0.0088
Venus	113432-09-27 02:08 G	43151516.51	43151516.59	43151516.72	0.0089	0.0079
Moon	113433-01-29 12:56 G	43151640.83	43151641.04	43151641.25	0.0089	0.0050
Earth	113433-01-29 15:49 G	43151640.96	43151641.16	43151641.40	0.0089	0.0046 *
Venus	113433-05-10 15:34 G	43151742.03	43151742.15	43151742.31	0.0089	0.0069
Venus	113433-12-22 04:46 G	43151967.56	43151967.70	43151967.89	0.0089	0.0059
Earth	113434-02-01 04:03 G	43152008.43	43152008.67	43152008.93	0.0089	0.0023
Moon	113434-02-01 07:10 G	43152008.56	43152008.80	43152009.07	0.0089	0.0019 *
Venus	113434-08-04 17:58 G	43152193.09	43152193.25	43152193.45	0.0090	0.0049
Moon	113435-02-03 15:05 G	43152375.88	43152376.13	43152376.38	0.0090	0.0004
Earth	113435-02-03 16:46 G	43152375.94	43152376.20	43152376.45	0.0090	0.0002 *
Venus	113435-03-18 07:25 G	43152418.62	43152418.81	43152419.01	0.0090	0.0039
Venus	113435-10-29 20:37 G	43152644.16	43152644.36	43152644.57	0.0090	0.0029
Earth	113436-02-06 04:32 G	43152743.46	43152743.69	43152743.95	0.0090	0.0025
Moon	113436-02-06 05:15 G	43152743.47	43152743.72	43152743.97	0.0090	0.0028 *
Venus	113436-06-11 09:49 G	43152869.70	43152869.91	43152870.13	0.0090	0.0019
Venus	113437-01-22 22:46 G	43153095.24	43153095.45	43153095.67	0.0090	0.0009
Earth	113437-02-07 16:32 G	43153110.99	43153111.19	43153111.43	0.0090	0.0048
Moon	113437-02-07 17:15 G	43153111.01	43153111.22	43153111.45	0.0090	0.0044 *
Venus	113437-09-05 11:58 G	43153320.78	43153321.00	43153321.22	0.0090	0.0002
Moon	113438-02-10 02:37 G	43153478.48	43153478.61	43153478.76	0.0090	0.0075
Earth	113438-02-10 04:32 G	43153478.56	43153478.69	43153478.87	0.0090	0.0071 *
Venus	113438-04-19 00:41 G	43153546.32	43153546.53	43153546.76	0.0090	0.0012
Venus	113438-11-30 13:53 G	43153771.88	43153772.08	43153772.30	0.0090	0.0021
Moon	113439-02-12 19:39 G	43153846.32	43153846.32	43153846.33	0.0090	0.0090

Venus	113439-07-14 03:05 G	43153997.42	43153997.63	43153997.83	0.0090	0.0031
Venus	113440-02-24 15:49 G	43154222.97	43154223.16	43154223.36	0.0090	0.0041
Venus	113440-10-07 04:32 G	43154448.52	43154448.69	43154448.88	0.0090	0.0051
Venus	113441-05-20 17:15 G	43154674.08	43154674.22	43154674.40	0.0090	0.0061
Venus	113442-01-01 06:13 G	43154899.65	43154899.76	43154899.92	0.0090	0.0071
Venus	113442-08-14 19:25 G	43155125.22	43155125.31	43155125.42	0.0090	0.0080
Venus	113443-03-28 08:22 G	43155350.85	43155350.85	43155350.86	0.0090	0.0090
Mars	113465-10-26 18:13 G	43163598.98	43163599.26	43163599.56	0.0090	0.0004
Mercury	113507-01-25 06:56 G	43178663.77	43178663.79	43178663.81	0.0088	0.0087
Mercury	113507-04-23 07:53 G	43178751.79	43178751.83	43178751.91	0.0088	0.0081
Mercury	113507-07-20 09:34 G	43178839.83	43178839.90	43178839.99	0.0088	0.0073
Mercury	113507-10-16 11:01 G	43178927.88	43178927.96	43178928.06	0.0088	0.0066
Mercury	113508-01-12 12:27 G	43179015.93	43179016.02	43179016.13	0.0088	0.0059
Mercury	113508-04-09 14:08 G	43179103.98	43179104.09	43179104.20	0.0088	0.0052
Mercury	113508-07-06 15:34 G	43179192.03	43179192.15	43179192.27	0.0088	0.0045
Mercury	113508-10-02 16:46 G	43179280.09	43179280.20	43179280.34	0.0088	0.0039
Mercury	113508-12-29 18:27 G	43179368.14	43179368.27	43179368.40	0.0088	0.0032
Mercury	113509-03-27 19:53 G	43179456.20	43179456.33	43179456.46	0.0088	0.0025
Mercury	113509-06-23 21:20 G	43179544.26	43179544.39	43179544.52	0.0088	0.0018
Mercury	113509-09-19 22:46 G	43179632.31	43179632.45	43179632.59	0.0088	0.0012
Mercury	113509-12-17 00:13 G	43179720.37	43179720.51	43179720.65	0.0088	0.0005
Mercury	113510-03-15 01:39 G	43179808.43	43179808.57	43179808.70	0.0088	0.0002
Mercury	113510-06-11 03:05 G	43179896.49	43179896.63	43179896.76	0.0088	0.0009
Mercury	113510-09-07 04:17 G	43179984.55	43179984.68	43179984.82	0.0088	0.0016
Mercury	113510-12-04 05:44 G	43180072.61	43180072.74	43180072.88	0.0088	0.0022
Mercury	113511-03-02 07:10 G	43180160.67	43180160.80	43180160.93	0.0088	0.0029
Mercury	113511-05-29 08:37 G	43180248.74	43180248.86	43180248.99	0.0088	0.0035
Mercury	113511-08-25 09:49 G	43180336.80	43180336.91	43180337.04	0.0088	0.0042
Mercury	113511-11-21 11:15 G	43180424.87	43180424.97	43180425.09	0.0088	0.0049
Mercury	113512-02-17 12:41 G	43180512.93	43180513.03	43180513.14	0.0088	0.0055

Mercury	113512-05-15 13:53 G	43180601.00	43180601.08	43180601.19	0.0088	0.0062
Earth	113512-07-24 13:53 G	43180671.05	43180671.08	43180671.16	0.0088	0.0086
Mercury	113512-08-11 15:34 G	43180689.07	43180689.15	43180689.23	0.0088	0.0068
Mercury	113512-11-07 16:46 G	43180777.14	43180777.20	43180777.28	0.0088	0.0075
Mercury	113513-02-03 18:13 G	43180865.22	43180865.26	43180865.31	0.0088	0.0081
Mercury	113513-05-02 19:39 G	43180953.32	43180953.32	43180953.33	0.0088	0.0088
Moon	113513-07-26 21:34 G	43181038.23	43181038.40	43181038.62	0.0088	0.0059
Earth	113513-07-27 01:10 G	43181038.39	43181038.55	43181038.75	0.0088	0.0064 *
Venus	113513-08-17 21:34 G	43181060.36	43181060.40	43181060.49	0.0088	0.0084
Venus	113514-03-31 10:46 G	43181285.84	43181285.95	43181286.07	0.0088	0.0074
Earth	113514-07-29 12:13 G	43181405.80	43181406.01	43181406.26	0.0088	0.0042
Moon	113514-07-29 15:49 G	43181405.96	43181406.16	43181406.40	0.0088	0.0047 *
Venus	113514-11-11 23:29 G	43181511.35	43181511.48	43181511.64	0.0088	0.0065
Venus	113515-06-25 12:13 G	43181736.86	43181737.01	43181737.20	0.0088	0.0056
Moon	113515-07-31 20:22 G	43181773.10	43181773.35	43181773.61	0.0088	0.0015
Earth	113515-07-31 23:29 G	43181773.24	43181773.48	43181773.75	0.0088	0.0020 *
Venus	113516-02-06 01:25 G	43181962.38	43181962.56	43181962.75	0.0088	0.0046
Earth	113516-08-02 10:46 G	43182140.69	43182140.95	43182141.21	0.0088	0.0003
Moon	113516-08-02 13:39 G	43182140.81	43182141.07	43182141.34	0.0088	0.0002 *
Venus	113516-09-18 14:08 G	43182187.90	43182188.09	43182188.30	0.0088	0.0037
Venus	113517-05-02 03:20 G	43182413.43	43182413.64	43182413.85	0.0088	0.0027
Moon	113517-08-04 20:37 G	43182508.13	43182508.36	43182508.60	0.0088	0.0029
Earth	113517-08-04 21:34 G	43182508.16	43182508.40	43182508.66	0.0088	0.0025 *
Venus	113517-12-13 16:03 G	43182638.96	43182639.17	43182639.39	0.0088	0.0018
Venus	113518-07-27 05:01 G	43182864.49	43182864.71	43182864.93	0.0088	0.0008
Earth	113518-08-07 08:37 G	43182875.66	43182875.86	43182876.10	0.0088	0.0047
Moon	113518-08-07 08:51 G	43182875.66	43182875.87	43182876.13	0.0088	0.0043 *
Venus	113519-03-09 17:58 G	43183090.02	43183090.25	43183090.47	0.0088	0.0002
Earth	113519-08-09 19:39 G	43183243.18	43183243.32	43183243.50	0.0088	0.0069
Moon	113519-08-09 20:51 G	43183243.26	43183243.37	43183243.52	0.0088	0.0074 *

Venus	113519-10-21 06:41 G	43183315.56	43183315.78	43183316.01	0.0088	0.0011
Venus	113520-06-02 19:53 G	43183541.11	43183541.33	43183541.55	0.0088	0.0020
Moon	113520-08-11 04:17 G	43183610.65	43183610.68	43183610.74	0.0088	0.0086
Venus	113521-01-14 08:37 G	43183766.66	43183766.86	43183767.08	0.0088	0.0030
Venus	113521-08-27 21:49 G	43183992.21	43183992.41	43183992.61	0.0088	0.0039
Venus	113522-04-10 10:32 G	43184217.77	43184217.94	43184218.14	0.0088	0.0049
Venus	113522-11-21 23:58 G	43184443.33	43184443.50	43184443.67	0.0088	0.0058
Venus	113523-07-05 12:41 G	43184668.91	43184669.03	43184669.19	0.0088	0.0068
Venus	113524-02-16 01:53 G	43184894.49	43184894.58	43184894.70	0.0088	0.0077
Venus	113524-09-28 14:37 G	43185120.10	43185120.11	43185120.17	0.0088	0.0087
Mars	113547-07-13 13:53 G	43193442.90	43193443.08	43193443.26	0.0088	0.0074
Mars	113549-06-08 12:56 G	43194138.76	43194139.04	43194139.37	0.0088	0.0040
Mercury	113591-03-23 01:10 G	43209401.53	43209401.55	43209401.57	0.0089	0.0089
Mercury	113591-06-19 04:03 G	43209489.60	43209489.67	43209489.77	0.0089	0.0080
Mercury	113591-09-15 07:10 G	43209577.71	43209577.80	43209577.93	0.0089	0.0071
Mercury	113591-12-12 10:32 G	43209665.82	43209665.94	43209666.09	0.0089	0.0061
Mercury	113592-03-09 13:53 G	43209753.94	43209754.08	43209754.24	0.0089	0.0052
Mercury	113592-06-05 17:15 G	43209842.06	43209842.22	43209842.39	0.0089	0.0042
Mercury	113592-09-01 20:37 G	43209930.19	43209930.36	43209930.54	0.0089	0.0033
Mercury	113592-11-28 23:44 G	43210018.32	43210018.49	43210018.68	0.0089	0.0024
Mercury	113593-02-25 03:05 G	43210106.45	43210106.63	43210106.82	0.0089	0.0014
Mercury	113593-05-24 06:41 G	43210194.59	43210194.78	43210194.96	0.0089	0.0005
Mercury	113593-08-20 09:49 G	43210282.73	43210282.91	43210283.10	0.0089	0.0006
Mercury	113593-11-16 13:10 G	43210370.87	43210371.05	43210371.24	0.0089	0.0015
Mercury	113594-02-12 16:32 G	43210459.01	43210459.19	43210459.37	0.0089	0.0024
Mercury	113594-05-11 19:39 G	43210547.16	43210547.32	43210547.51	0.0089	0.0035
Mercury	113594-08-07 23:15 G	43210635.31	43210635.47	43210635.64	0.0089	0.0044
Mercury	113594-11-04 02:22 G	43210723.46	43210723.60	43210723.76	0.0089	0.0054
Mercury	113595-01-31 05:44 G	43210811.62	43210811.74	43210811.89	0.0089	0.0063
Mercury	113595-04-29 09:20 G	43210899.79	43210899.89	43210900.01	0.0089	0.0073

Mercury	113595-07-26 12:41 G	43210987.97	43210988.03	43210988.11	0.0089	0.0083
Moon	113596-01-28 06:56 G	43211173.73	43211173.79	43211173.91	0.0089	0.0085
Earth	113596-01-28 09:20 G	43211173.80	43211173.89	43211174.03	0.0089	0.0080 *
Venus	113596-12-30 11:15 G	43211510.89	43211510.97	43211511.08	0.0089	0.0081
Earth	113597-01-29 21:34 G	43211541.22	43211541.40	43211541.62	0.0089	0.0057
Moon	113597-01-30 00:41 G	43211541.33	43211541.53	43211541.73	0.0089	0.0052 *
Venus	113597-08-13 00:27 G	43211736.40	43211736.52	43211736.67	0.0089	0.0071
Moon	113598-02-01 06:41 G	43211908.55	43211908.78	43211909.02	0.0089	0.0038
Earth	113598-02-01 10:17 G	43211908.69	43211908.93	43211909.17	0.0089	0.0033 *
Venus	113598-03-26 13:39 G	43211961.92	43211962.07	43211962.24	0.0089	0.0061
Venus	113598-11-07 03:05 G	43212187.46	43212187.63	43212187.81	0.0090	0.0051
Earth	113599-02-03 22:17 G	43212276.18	43212276.43	43212276.69	0.0090	0.0010
Moon	113599-02-04 01:53 G	43212276.32	43212276.58	43212276.84	0.0090	0.0005 *
Venus	113599-06-20 15:49 G	43212412.99	43212413.16	43212413.38	0.0090	0.0042
Venus	113600-02-01 05:01 G	43212638.52	43212638.71	43212638.93	0.0090	0.0032
Moon	113600-02-06 07:25 G	43212643.57	43212643.81	43212644.07	0.0090	0.0010
Earth	113600-02-06 10:32 G	43212643.69	43212643.94	43212644.20	0.0090	0.0014 *
Venus	113600-09-13 18:13 G	43212864.06	43212864.26	43212864.48	0.0090	0.0022
Earth	113601-02-07 22:32 G	43213011.22	43213011.44	43213011.69	0.0090	0.0037
Moon	113601-02-08 00:56 G	43213011.33	43213011.54	43213011.79	0.0090	0.0042 *
Venus	113601-04-27 07:25 G	43213089.60	43213089.81	43213090.04	0.0090	0.0012
Venus	113601-12-08 20:51 G	43213315.15	43213315.37	43213315.59	0.0090	0.0001
Moon	113602-02-10 09:49 G	43213378.73	43213378.91	43213379.12	0.0090	0.0056
Earth	113602-02-10 10:17 G	43213378.77	43213378.93	43213379.14	0.0090	0.0061 *
Venus	113602-07-22 09:49 G	43213540.70	43213540.91	43213541.13	0.0090	0.0009
Earth	113603-02-12 22:17 G	43213746.37	43213746.43	43213746.55	0.0090	0.0084
Moon	113603-02-12 22:03 G	43213746.40	43213746.42	43213746.51	0.0090	0.0088 *
Venus	113603-03-04 22:46 G	43213766.24	43213766.45	43213766.67	0.0090	0.0019
Venus	113603-10-16 11:29 G	43213991.79	43213991.98	43213992.20	0.0090	0.0029
Venus	113604-05-29 00:27 G	43214217.34	43214217.52	43214217.73	0.0090	0.0039

Venus	113605-01-09 13:53 G	43214442.90	43214443.08	43214443.26	0.0090	0.0048
Venus	113605-08-23 02:37 G	43214668.45	43214668.61	43214668.78	0.0090	0.0058
Venus	113606-04-05 15:20 G	43214894.01	43214894.14	43214894.29	0.0090	0.0068
Venus	113606-11-17 04:03 G	43215119.59	43215119.67	43215119.80	0.0090	0.0078
Venus	113607-06-30 17:15 G	43215345.18	43215345.22	43215345.28	0.0090	0.0087
Mars	113629-06-11 23:01 G	43223362.23	43223362.46	43223362.73	0.0090	0.0046
Mars	113631-05-06 17:29 G	43224056.02	43224056.23	43224056.46	0.0090	0.0057
Mercury	113671-10-22 05:58 G	43238834.72	43238834.75	43238834.80	0.0088	0.0084
Mercury	113672-01-18 07:39 G	43238922.76	43238922.82	43238922.88	0.0088	0.0077
Mercury	113672-04-15 08:51 G	43239010.80	43239010.87	43239010.96	0.0088	0.0071
Mercury	113672-07-12 10:17 G	43239098.85	43239098.93	43239099.04	0.0088	0.0064
Mercury	113672-10-08 11:44 G	43239186.90	43239186.99	43239187.11	0.0088	0.0057
Mercury	113673-01-04 13:25 G	43239274.95	43239275.06	43239275.18	0.0088	0.0050
Mercury	113673-04-02 14:51 G	43239363.00	43239363.12	43239363.24	0.0088	0.0043
Mercury	113673-06-29 16:03 G	43239451.06	43239451.17	43239451.31	0.0088	0.0037
Mercury	113673-09-25 17:44 G	43239539.11	43239539.24	43239539.37	0.0088	0.0030
Mercury	113673-12-22 19:10 G	43239627.17	43239627.30	43239627.43	0.0088	0.0023
Mercury	113674-03-20 20:37 G	43239715.23	43239715.36	43239715.50	0.0088	0.0016
Mercury	113674-06-16 22:03 G	43239803.28	43239803.42	43239803.56	0.0088	0.0010
Mercury	113674-09-12 23:29 G	43239891.34	43239891.48	43239891.62	0.0088	0.0003
Mercury	113674-12-10 00:56 G	43239979.40	43239979.54	43239979.68	0.0088	0.0004
Mercury	113675-03-08 02:22 G	43240067.46	43240067.60	43240067.73	0.0088	0.0011
Mercury	113675-06-04 03:49 G	43240155.52	43240155.66	43240155.79	0.0088	0.0017
Mercury	113675-08-31 05:01 G	43240243.58	43240243.71	43240243.85	0.0088	0.0024
Mercury	113675-11-27 06:27 G	43240331.65	43240331.77	43240331.90	0.0088	0.0031
Mercury	113676-02-23 07:53 G	43240419.71	43240419.83	43240419.96	0.0088	0.0037
Mercury	113676-05-21 09:05 G	43240507.77	43240507.88	43240508.01	0.0088	0.0044
Mercury	113676-08-17 10:46 G	43240595.84	43240595.95	43240596.06	0.0088	0.0050
Mercury	113676-11-13 11:58 G	43240683.90	43240684.00	43240684.11	0.0088	0.0057
Mercury	113677-02-09 13:10 G	43240771.97	43240772.05	43240772.16	0.0088	0.0064

Mercury	113677-05-08 14:51 G	43240860.04	43240860.12	43240860.20	0.0088	0.0070
Earth	113677-07-26 08:37 G	43240938.72	43240938.86	43240939.00	0.0088	0.0073
Moon	113677-07-26 09:49 G	43240938.81	43240938.91	43240939.04	0.0088	0.0078 *
Mercury	113677-08-04 16:03 G	43240948.11	43240948.17	43240948.24	0.0088	0.0077
Mercury	113677-10-31 17:29 G	43241036.19	43241036.23	43241036.28	0.0088	0.0083
Venus	113677-11-19 07:25 G	43241054.76	43241054.81	43241054.86	0.0088	0.0085
Venus	113678-07-02 19:53 G	43241280.24	43241280.33	43241280.45	0.0088	0.0076
Moon	113678-07-28 16:32 G	43241305.99	43241306.19	43241306.44	0.0088	0.0048
Earth	113678-07-28 19:53 G	43241306.12	43241306.33	43241306.54	0.0088	0.0051 *
Venus	113679-02-13 08:37 G	43241505.74	43241505.86	43241506.02	0.0088	0.0067
Earth	113679-07-31 06:41 G	43241673.55	43241673.78	43241674.04	0.0088	0.0029
Moon	113679-07-31 09:49 G	43241673.69	43241673.91	43241674.16	0.0088	0.0034 *
Venus	113679-09-26 21:20 G	43241731.24	43241731.39	43241731.58	0.0088	0.0058
Venus	113680-05-09 10:32 G	43241956.77	43241956.94	43241957.14	0.0088	0.0048
Moon	113680-08-01 14:08 G	43242040.84	43242041.09	43242041.35	0.0088	0.0003
Earth	113680-08-01 17:58 G	43242040.99	43242041.25	43242041.51	0.0088	0.0007 *
Venus	113680-12-20 23:15 G	43242182.29	43242182.47	43242182.69	0.0088	0.0039
Venus	113681-08-03 12:27 G	43242407.81	43242408.02	43242408.23	0.0088	0.0029
Earth	113681-08-04 04:46 G	43242408.46	43242408.70	43242408.97	0.0088	0.0016
Moon	113681-08-04 08:08 G	43242408.58	43242408.84	43242409.11	0.0088	0.0011 *
Venus	113682-03-17 01:10 G	43242633.34	43242633.55	43242633.77	0.0088	0.0020
Moon	113682-08-06 13:10 G	43242775.84	43242776.05	43242776.29	0.0088	0.0042
Earth	113682-08-06 15:49 G	43242775.94	43242776.16	43242776.41	0.0088	0.0038 *
Venus	113682-10-28 13:53 G	43242858.87	43242859.08	43242859.31	0.0088	0.0011
Venus	113683-06-11 03:05 G	43243084.41	43243084.63	43243084.85	0.0088	0.0001
Earth	113683-08-09 02:37 G	43243143.45	43243143.61	43243143.82	0.0088	0.0060
Moon	113683-08-09 04:32 G	43243143.49	43243143.69	43243143.91	0.0088	0.0055 *
Venus	113684-01-22 16:03 G	43243309.95	43243310.17	43243310.39	0.0088	0.0009
Earth	113684-08-10 13:39 G	43243511.01	43243511.07	43243511.20	0.0088	0.0082
Moon	113684-08-10 13:39 G	43243511.05	43243511.07	43243511.16	0.0088	0.0086 *



Venus	113684-09-04 04:46 G	43243535.49	43243535.70	43243535.92	0.0088	0.0018
Venus	113685-04-17 17:44 G	43243761.03	43243761.24	43243761.46	0.0088	0.0028
Venus	113685-11-29 06:41 G	43243986.58	43243986.78	43243986.99	0.0088	0.0037
Venus	113686-07-12 19:25 G	43244212.14	43244212.31	43244212.52	0.0088	0.0047
Venus	113687-02-23 08:37 G	43244437.70	43244437.86	43244438.04	0.0088	0.0056
Venus	113687-10-06 21:20 G	43244663.27	43244663.39	43244663.56	0.0088	0.0066
Venus	113688-05-19 10:46 G	43244888.85	43244888.95	43244889.08	0.0088	0.0075
Venus	113688-12-30 23:29 G	43245114.45	43245114.48	43245114.57	0.0088	0.0085
Mars	113713-01-20 23:29 G	43253900.14	43253900.48	43253900.82	0.0088	0.0006
Jupiter	113728-01-29 08:37 G	43259386.55	43259386.86	43259387.27	0.0088	0.0069
Mercury	113755-12-18 22:17 G	43269572.41	43269572.43	43269572.48	0.0089	0.0087
Mercury	113756-03-16 01:53 G	43269660.49	43269660.58	43269660.67	0.0089	0.0078
Mercury	113756-06-12 05:01 G	43269748.60	43269748.71	43269748.83	0.0089	0.0068
Mercury	113756-09-08 08:08 G	43269836.71	43269836.84	43269836.99	0.0089	0.0059
Mercury	113756-12-05 11:15 G	43269924.83	43269924.97	43269925.14	0.0089	0.0050
Mercury	113757-03-03 14:51 G	43270012.96	43270013.12	43270013.29	0.0089	0.0040
Mercury	113757-05-30 17:58 G	43270101.09	43270101.25	43270101.43	0.0089	0.0031
Mercury	113757-08-26 21:20 G	43270189.22	43270189.39	43270189.58	0.0089	0.0022
Mercury	113757-11-23 00:41 G	43270277.35	43270277.53	43270277.72	0.0089	0.0012
Mercury	113758-02-19 04:03 G	43270365.49	43270365.67	43270365.86	0.0089	0.0003
Mercury	113758-05-18 07:25 G	43270453.62	43270453.81	43270454.00	0.0089	0.0007
Mercury	113758-08-14 10:46 G	43270541.76	43270541.95	43270542.13	0.0089	0.0017
Mercury	113758-11-10 13:53 G	43270629.91	43270630.08	43270630.27	0.0089	0.0026
Mercury	113759-02-06 17:15 G	43270718.06	43270718.22	43270718.40	0.0089	0.0036
Mercury	113759-05-05 20:37 G	43270806.21	43270806.36	43270806.53	0.0089	0.0045
Mercury	113759-08-01 23:44 G	43270894.36	43270894.49	43270894.66	0.0089	0.0056
Mercury	113759-10-29 03:20 G	43270982.52	43270982.64	43270982.78	0.0089	0.0065
Mercury	113760-01-25 06:41 G	43271070.69	43271070.78	43271070.89	0.0089	0.0075
Moon	113760-01-28 14:08 G	43271074.05	43271074.09	43271074.18	0.0089	0.0087
Mercury	113760-04-22 09:49 G	43271158.87	43271158.91	43271158.99	0.0089	0.0085

Moon	113761-01-30 02:22 G	43271441.47	43271441.60	43271441.78	0.0089	0.0072
Earth	113761-01-30 02:51 G	43271441.47	43271441.62	43271441.81	0.0089	0.0068 *
Venus	113761-04-03 19:10 G	43271505.25	43271505.30	43271505.41	0.0089	0.0084
Venus	113761-11-15 08:37 G	43271730.76	43271730.86	43271731.01	0.0089	0.0074
Earth	113762-02-01 14:51 G	43271808.92	43271809.12	43271809.37	0.0089	0.0045
Moon	113762-02-01 17:01 G	43271809.00	43271809.21	43271809.44	0.0089	0.0040 *
Venus	113762-06-28 22:03 G	43271956.28	43271956.42	43271956.58	0.0089	0.0064
Moon	113763-02-04 00:13 G	43272176.28	43272176.51	43272176.78	0.0089	0.0026
Earth	113763-02-04 03:34 G	43272176.41	43272176.65	43272176.91	0.0089	0.0021 *
Venus	113763-02-09 11:15 G	43272181.80	43272181.97	43272182.15	0.0089	0.0054
Venus	113763-09-23 00:27 G	43272407.33	43272407.52	43272407.71	0.0089	0.0044
Earth	113764-02-06 15:49 G	43272543.90	43272544.16	43272544.42	0.0089	0.0003
Moon	113764-02-06 18:56 G	43272544.04	43272544.29	43272544.55	0.0089	0.0008 *
Venus	113764-05-05 13:39 G	43272632.87	43272633.07	43272633.27	0.0090	0.0034
Venus	113764-12-17 02:51 G	43272858.41	43272858.62	43272858.83	0.0090	0.0024
Moon	113765-02-08 00:13 G	43272911.27	43272911.51	43272911.76	0.0090	0.0021
Earth	113765-02-08 04:03 G	43272911.42	43272911.67	43272911.91	0.0090	0.0026 *
Venus	113765-07-30 16:03 G	43273083.95	43273084.17	43273084.39	0.0090	0.0014
Earth	113766-02-10 15:34 G	43273278.96	43273279.15	43273279.39	0.0090	0.0050
Moon	113766-02-10 18:56 G	43273279.09	43273279.29	43273279.51	0.0090	0.0054 *
Venus	113766-03-13 05:01 G	43273309.50	43273309.71	43273309.93	0.0090	0.0005
Venus	113766-10-24 18:13 G	43273535.05	43273535.26	43273535.48	0.0090	0.0006
Moon	113767-02-13 01:39 G	43273646.42	43273646.57	43273646.74	0.0090	0.0068
Earth	113767-02-13 03:49 G	43273646.54	43273646.66	43273646.83	0.0090	0.0073 *
Venus	113767-06-07 07:25 G	43273760.59	43273760.81	43273761.02	0.0090	0.0016
Venus	113768-01-18 20:22 G	43273986.15	43273986.35	43273986.56	0.0090	0.0026
Venus	113768-08-31 09:20 G	43274211.70	43274211.89	43274212.10	0.0090	0.0036
Venus	113769-04-13 22:03 G	43274437.25	43274437.42	43274437.63	0.0090	0.0046
Venus	113769-11-25 11:15 G	43274662.81	43274662.97	43274663.15	0.0090	0.0056
Venus	113770-07-09 00:27 G	43274888.38	43274888.52	43274888.67	0.0090	0.0065

Venus	113771-02-19 13:10 G	43275113.94	43275114.05	43275114.18	0.0090	0.0075
Venus	113771-10-03 01:39 G	43275339.53	43275339.57	43275339.67	0.0090	0.0085
Mars	113793-01-26 01:39 G	43283125.57	43283125.57	43283125.60	0.0090	0.0089
Mars	113794-12-20 22:17 G	43283819.16	43283819.43	43283819.73	0.0090	0.0015
Mercury	113836-07-20 05:15 G	43299005.68	43299005.72	43299005.77	0.0088	0.0082
Mercury	113836-10-16 06:56 G	43299093.72	43299093.79	43299093.85	0.0088	0.0076
Mercury	113837-01-12 07:53 G	43299181.76	43299181.83	43299181.93	0.0088	0.0069
Mercury	113837-04-10 09:34 G	43299269.81	43299269.90	43299270.01	0.0088	0.0062
Mercury	113837-07-07 11:01 G	43299357.86	43299357.96	43299358.08	0.0088	0.0055
Mercury	113837-10-03 12:27 G	43299445.91	43299446.02	43299446.14	0.0088	0.0049
Mercury	113837-12-30 14:08 G	43299533.97	43299534.09	43299534.21	0.0088	0.0041
Mercury	113838-03-28 15:20 G	43299622.02	43299622.14	43299622.28	0.0088	0.0035
Mercury	113838-06-24 16:46 G	43299710.08	43299710.20	43299710.34	0.0088	0.0029
Mercury	113838-09-20 18:27 G	43299798.14	43299798.27	43299798.40	0.0088	0.0021
Mercury	113838-12-17 19:53 G	43299886.19	43299886.33	43299886.46	0.0088	0.0014
Mercury	113839-03-15 21:20 G	43299974.25	43299974.39	43299974.53	0.0088	0.0008
Mercury	113839-06-11 22:46 G	43300062.31	43300062.45	43300062.59	0.0088	0.0001
Mercury	113839-09-08 00:13 G	43300150.37	43300150.51	43300150.64	0.0088	0.0006
Mercury	113839-12-05 01:25 G	43300238.43	43300238.56	43300238.70	0.0088	0.0013
Mercury	113840-03-02 03:05 G	43300326.49	43300326.63	43300326.76	0.0088	0.0019
Mercury	113840-05-29 04:17 G	43300414.55	43300414.68	43300414.82	0.0088	0.0026
Mercury	113840-08-25 05:44 G	43300502.62	43300502.74	43300502.87	0.0088	0.0032
Mercury	113840-11-21 07:10 G	43300590.68	43300590.80	43300590.92	0.0088	0.0039
Mercury	113841-02-17 08:22 G	43300678.74	43300678.85	43300678.98	0.0088	0.0046
Mercury	113841-05-16 10:03 G	43300766.81	43300766.92	43300767.03	0.0088	0.0052
Earth	113841-07-27 15:20 G	43300839.07	43300839.14	43300839.23	0.0088	0.0083
Moon	113841-07-27 17:01 G	43300839.12	43300839.21	43300839.35	0.0088	0.0079 *
Mercury	113841-08-12 11:15 G	43300854.88	43300854.97	43300855.08	0.0088	0.0059
Mercury	113841-11-08 12:27 G	43300942.94	43300943.02	43300943.12	0.0088	0.0066
Mercury	113842-02-04 13:53 G	43301031.01	43301031.08	43301031.17	0.0088	0.0072

Venus	113842-02-22 16:17 G	43301049.16	43301049.18	43301049.21	0.0088	0.0087
Mercury	113842-05-03 15:05 G	43301119.09	43301119.13	43301119.21	0.0088	0.0079
Moon	113842-07-30 01:10 G	43301206.40	43301206.55	43301206.73	0.0088	0.0065
Earth	113842-07-30 02:22 G	43301206.43	43301206.60	43301206.80	0.0088	0.0061 *
Mercury	113842-07-30 16:46 G	43301207.17	43301207.20	43301207.24	0.0088	0.0085
Venus	113842-10-06 04:46 G	43301274.62	43301274.70	43301274.82	0.0088	0.0078
Venus	113843-05-19 17:44 G	43301500.13	43301500.24	43301500.40	0.0088	0.0069
Moon	113843-08-01 13:25 G	43301573.83	43301574.06	43301574.32	0.0088	0.0035
Earth	113843-08-01 13:25 G	43301573.84	43301574.06	43301574.31	0.0088	0.0039 *
Venus	113843-12-31 07:10 G	43301725.64	43301725.80	43301725.96	0.0088	0.0059
Earth	113844-08-03 00:41 G	43301941.29	43301941.53	43301941.80	0.0088	0.0017
Moon	113844-08-03 02:37 G	43301941.37	43301941.61	43301941.86	0.0088	0.0021 *
Venus	113844-08-12 19:39 G	43301951.15	43301951.32	43301951.51	0.0088	0.0050
Venus	113845-03-26 08:22 G	43302176.67	43302176.85	43302177.06	0.0088	0.0041
Moon	113845-08-05 09:20 G	43302308.64	43302308.89	43302309.17	0.0088	0.0010
Earth	113845-08-05 12:13 G	43302308.75	43302309.01	43302309.27	0.0088	0.0006 *
Venus	113845-11-06 21:34 G	43302402.19	43302402.40	43302402.61	0.0088	0.0031
Venus	113846-06-20 10:17 G	43302627.73	43302627.93	43302628.16	0.0088	0.0022
Earth	113846-08-07 23:01 G	43302676.22	43302676.46	43302676.72	0.0088	0.0028
Moon	113846-08-08 02:08 G	43302676.36	43302676.59	43302676.86	0.0088	0.0024 *
Venus	113847-01-31 23:29 G	43302853.26	43302853.48	43302853.70	0.0088	0.0012
Moon	113847-08-10 06:27 G	43303043.58	43303043.77	43303043.99	0.0088	0.0054
Earth	113847-08-10 10:03 G	43303043.72	43303043.92	43303044.15	0.0088	0.0050 *
Venus	113847-09-14 12:13 G	43303078.79	43303079.01	43303079.23	0.0088	0.0003
Venus	113848-04-27 01:10 G	43303304.33	43303304.55	43303304.77	0.0088	0.0007
Earth	113848-08-11 21:20 G	43303411.25	43303411.39	43303411.54	0.0088	0.0072
Moon	113848-08-12 00:27 G	43303411.37	43303411.52	43303411.70	0.0088	0.0068 *
Venus	113848-12-08 14:08 G	43303529.87	43303530.09	43303530.31	0.0088	0.0016
Venus	113849-07-22 02:51 G	43303755.41	43303755.62	43303755.84	0.0088	0.0026
Venus	113850-03-04 15:49 G	43303980.96	43303981.16	43303981.37	0.0088	0.0035

Venus	113850-10-16 04:32 G	43304206.51	43304206.69	43304206.89	0.0088	0.0045
Venus	113851-05-29 17:44 G	43304432.07	43304432.24	43304432.42	0.0088	0.0054
Venus	113852-01-10 06:27 G	43304657.64	43304657.77	43304657.94	0.0088	0.0064
Venus	113852-08-22 19:25 G	43304883.21	43304883.31	43304883.45	0.0088	0.0073
Venus	113853-04-05 08:37 G	43305108.79	43305108.86	43305108.95	0.0088	0.0082
Mars	113876-09-04 12:27 G	43313661.75	43313662.02	43313662.30	0.0088	0.0051
Mars	113878-08-01 09:34 G	43314357.68	43314357.90	43314358.15	0.0088	0.0063
Jupiter	113894-04-06 10:03 G	43320084.39	43320084.92	43320085.48	0.0088	0.0028
Mercury	113920-09-15 19:53 G	43329743.29	43329743.33	43329743.40	0.0089	0.0085
Mercury	113920-12-12 23:01 G	43329831.38	43329831.46	43329831.57	0.0089	0.0076
Mercury	113921-03-11 02:37 G	43329919.49	43329919.61	43329919.73	0.0089	0.0067
Mercury	113921-06-07 05:44 G	43330007.61	43330007.74	43330007.89	0.0089	0.0057
Mercury	113921-09-03 08:51 G	43330095.73	43330095.87	43330096.04	0.0089	0.0048
Mercury	113921-11-30 12:27 G	43330183.85	43330184.02	43330184.18	0.0089	0.0039
Mercury	113922-02-26 15:34 G	43330271.98	43330272.15	43330272.33	0.0089	0.0029
Mercury	113922-05-25 18:41 G	43330360.11	43330360.28	43330360.47	0.0089	0.0021
Mercury	113922-08-21 22:17 G	43330448.24	43330448.43	43330448.61	0.0089	0.0010
Mercury	113922-11-18 01:39 G	43330536.38	43330536.57	43330536.75	0.0089	0.0002
Mercury	113923-02-14 04:46 G	43330624.52	43330624.70	43330624.89	0.0089	0.0009
Mercury	113923-05-13 08:08 G	43330712.66	43330712.84	43330713.03	0.0089	0.0018
Mercury	113923-08-09 11:29 G	43330800.80	43330800.98	43330801.16	0.0089	0.0028
Mercury	113923-11-05 14:37 G	43330888.95	43330889.11	43330889.29	0.0089	0.0038
Mercury	113924-02-01 17:58 G	43330977.10	43330977.25	43330977.42	0.0089	0.0047
Mercury	113924-04-29 21:20 G	43331065.26	43331065.39	43331065.55	0.0089	0.0057
Mercury	113924-07-27 00:41 G	43331153.42	43331153.53	43331153.67	0.0089	0.0067
Mercury	113924-10-23 03:49 G	43331241.59	43331241.66	43331241.78	0.0089	0.0077
Mercury	113925-01-19 07:39 G	43331329.78	43331329.82	43331329.88	0.0089	0.0086
Moon	113925-01-31 04:32 G	43331341.57	43331341.69	43331341.85	0.0089	0.0074
Earth	113925-01-31 07:53 G	43331341.73	43331341.83	43331341.98	0.0089	0.0079 *
Venus	113925-07-08 04:03 G	43331499.62	43331499.67	43331499.74	0.0089	0.0086

Earth	113926-02-02 19:53 G	43331709.16	43331709.33	43331709.56	0.0089	0.0056
Moon	113926-02-02 22:46 G	43331709.26	43331709.45	43331709.65	0.0089	0.0060 *
Venus	113926-02-18 16:46 G	43331725.11	43331725.20	43331725.34	0.0089	0.0077
Venus	113926-10-02 05:58 G	43331950.62	43331950.75	43331950.92	0.0089	0.0067
Moon	113927-02-05 07:10 G	43332076.57	43332076.80	43332077.04	0.0089	0.0028
Earth	113927-02-05 08:37 G	43332076.63	43332076.86	43332077.11	0.0089	0.0032 *
Venus	113927-05-15 19:10 G	43332176.15	43332176.30	43332176.49	0.0089	0.0057
Venus	113927-12-27 08:37 G	43332401.68	43332401.86	43332402.05	0.0089	0.0047
Earth	113928-02-07 20:37 G	43332444.11	43332444.36	43332444.62	0.0089	0.0009
Moon	113928-02-07 21:05 G	43332444.12	43332444.38	43332444.65	0.0089	0.0013 *
Venus	113928-08-08 21:49 G	43332627.21	43332627.41	43332627.61	0.0090	0.0037
Earth	113929-02-09 08:51 G	43332811.62	43332811.87	43332812.12	0.0090	0.0015
Moon	113929-02-09 10:03 G	43332811.69	43332811.92	43332812.17	0.0090	0.0020 *
Venus	113929-03-22 11:01 G	43332852.75	43332852.96	43332853.17	0.0090	0.0027
Venus	113929-11-03 00:13 G	43333078.29	43333078.51	43333078.72	0.0090	0.0017
Moon	113930-02-11 18:27 G	43333179.03	43333179.27	43333179.52	0.0090	0.0034
Earth	113930-02-11 20:22 G	43333179.14	43333179.35	43333179.60	0.0090	0.0039 *
Venus	113930-06-16 13:10 G	43333303.84	43333304.05	43333304.27	0.0090	0.0007
Venus	113931-01-28 02:22 G	43333529.38	43333529.60	43333529.82	0.0090	0.0003
Earth	113931-02-14 08:22 G	43333546.69	43333546.85	43333547.06	0.0090	0.0062
Moon	113931-02-14 11:29 G	43333546.84	43333546.98	43333547.17	0.0090	0.0067 *
Venus	113931-09-10 15:20 G	43333754.93	43333755.14	43333755.36	0.0090	0.0013
Moon	113932-02-16 17:01 G	43333914.12	43333914.21	43333914.35	0.0090	0.0080
Earth	113932-02-16 20:37 G	43333914.30	43333914.36	43333914.47	0.0090	0.0085 *
Venus	113932-04-23 04:17 G	43333980.48	43333980.68	43333980.90	0.0090	0.0023
Venus	113932-12-04 17:29 G	43334206.03	43334206.23	43334206.44	0.0090	0.0033
Venus	113933-07-18 06:27 G	43334431.59	43334431.77	43334431.97	0.0090	0.0043
Venus	113934-02-28 19:10 G	43334657.15	43334657.30	43334657.50	0.0090	0.0053
Venus	113934-10-12 08:37 G	43334882.71	43334882.86	43334883.02	0.0090	0.0062
Venus	113935-05-25 21:20 G	43335108.28	43335108.39	43335108.53	0.0090	0.0072

Venus	113936-01-06 10:17 G	4335333.86	4335333.93	4335334.04	0.0090	0.0082
Mars	113958-08-06 23:58 G	43343582.22	43343582.50	43343582.78	0.0090	0.0029
Mars	113960-06-30 19:53 G	43344276.20	43344276.33	43344276.53	0.0090	0.0075

# 115TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 115th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mercury	114001-01-19 02:51 G		43359088.62	43359088.62	43359088.63	0.0088	0.0088	
Mercury	114001-04-17 04:03 G		43359176.63	43359176.67	43359176.74	0.0088	0.0081	
Mercury	114001-07-14 05:44 G		43359264.67	43359264.74	43359264.82	0.0088	0.0074	
Mercury	114001-10-10 07:10 G		43359352.72	43359352.80	43359352.90	0.0088	0.0067	
Mercury	114002-01-06 08:37 G		43359440.77	43359440.86	43359440.97	0.0088	0.0061	
Mercury	114002-04-04 10:17 G		43359528.82	43359528.93	43359529.04	0.0088	0.0053	
Mercury	114002-07-01 11:29 G		43359616.87	43359616.98	43359617.11	0.0088	0.0047	
Mercury	114002-09-27 12:56 G		43359704.93	43359705.04	43359705.17	0.0088	0.0041	
Mercury	114002-12-24 14:37 G		43359792.98	43359793.11	43359793.24	0.0088	0.0033	
Mercury	114003-03-22 16:03 G		43359881.04	43359881.17	43359881.30	0.0088	0.0026	
Mercury	114003-06-18 17:29 G		43359969.10	43359969.23	43359969.37	0.0088	0.0020	
Mercury	114003-09-14 18:56 G		43360057.16	43360057.29	43360057.43	0.0088	0.0013	
Mercury	114003-12-11 20:22 G		43360145.21	43360145.35	43360145.49	0.0088	0.0006	
Mercury	114004-03-08 21:49 G		43360233.27	43360233.41	43360233.55	0.0088	0.0001	
Mercury	114004-06-04 23:15 G		43360321.33	43360321.47	43360321.61	0.0088	0.0007	

Mercury	114004-09-01 00:41 G	43360409.40	43360409.53	43360409.67	0.0088	0.0014
Mercury	114004-11-28 01:53 G	43360497.46	43360497.58	43360497.72	0.0088	0.0021
Mercury	114005-02-24 03:34 G	43360585.52	43360585.65	43360585.78	0.0088	0.0027
Mercury	114005-05-23 04:46 G	43360673.58	43360673.70	43360673.83	0.0088	0.0034
Mercury	114005-08-19 06:13 G	43360761.65	43360761.76	43360761.89	0.0088	0.0041
Mercury	114005-11-15 07:39 G	43360849.71	43360849.82	43360849.94	0.0088	0.0047
Mercury	114006-02-11 08:51 G	43360937.77	43360937.87	43360937.99	0.0088	0.0054
Mercury	114006-05-10 10:32 G	43361025.84	43361025.94	43361026.04	0.0088	0.0060
Earth	114006-07-30 08:22 G	43361106.71	43361106.85	43361107.01	0.0088	0.0071
Moon	114006-07-30 11:29 G	43361106.84	43361106.98	43361107.17	0.0088	0.0067 *
Mercury	114006-08-06 11:44 G	43361113.91	43361113.99	43361114.08	0.0088	0.0067
Mercury	114006-11-02 13:10 G	43361201.98	43361202.05	43361202.13	0.0088	0.0073
Venus	114007-01-08 13:39 G	43361268.99	43361269.07	43361269.17	0.0088	0.0080
Mercury	114007-01-29 14:22 G	43361290.06	43361290.10	43361290.17	0.0088	0.0080
Mercury	114007-04-27 16:03 G	43361378.15	43361378.17	43361378.19	0.0088	0.0086
Moon	114007-08-01 15:49 G	43361473.98	43361474.16	43361474.38	0.0088	0.0054
Earth	114007-08-01 19:25 G	43361474.11	43361474.31	43361474.54	0.0088	0.0049 *
Venus	114007-08-22 02:22 G	43361494.49	43361494.60	43361494.74	0.0088	0.0071
Venus	114008-04-03 15:05 G	43361719.99	43361720.13	43361720.31	0.0088	0.0062
Earth	114008-08-03 06:41 G	43361841.55	43361841.78	43361842.04	0.0088	0.0027
Moon	114008-08-03 09:20 G	43361841.65	43361841.89	43361842.16	0.0088	0.0023 *
Venus	114008-11-15 04:17 G	43361945.51	43361945.68	43361945.86	0.0088	0.0052
Venus	114009-06-28 17:01 G	43362171.03	43362171.21	43362171.42	0.0088	0.0043
Moon	114009-08-05 16:03 G	43362208.92	43362209.17	43362209.43	0.0088	0.0009
Earth	114009-08-05 18:13 G	43362209.00	43362209.26	43362209.52	0.0088	0.0005 *
Venus	114010-02-09 06:13 G	43362396.56	43362396.76	43362396.97	0.0088	0.0033
Earth	114010-08-08 05:15 G	43362576.48	43362576.72	43362576.98	0.0088	0.0018
Moon	114010-08-08 05:58 G	43362576.49	43362576.75	43362577.01	0.0088	0.0022 *
Venus	114010-09-22 18:56 G	43362622.08	43362622.29	43362622.51	0.0088	0.0024
Venus	114011-05-06 07:53 G	43362847.62	43362847.83	43362848.06	0.0088	0.0015



Earth	114011-08-10 16:32 G	43362943.97	43362944.19	43362944.43	0.0088	0.0040
Moon	114011-08-10 17:29 G	43362944.01	43362944.23	43362944.46	0.0088	0.0036 *
Venus	114011-12-17 21:05 G	43363073.16	43363073.38	43363073.60	0.0088	0.0005
Venus	114012-07-30 09:49 G	43363298.69	43363298.91	43363299.14	0.0088	0.0005
Moon	114012-08-12 01:39 G	43363311.42	43363311.57	43363311.76	0.0088	0.0067
Earth	114012-08-12 04:03 G	43363311.48	43363311.67	43363311.85	0.0088	0.0062 *
Venus	114013-03-12 22:46 G	43363524.23	43363524.45	43363524.67	0.0088	0.0014
Earth	114013-08-14 14:22 G	43363679.07	43363679.10	43363679.20	0.0088	0.0085
Moon	114013-08-14 17:58 G	43363679.16	43363679.25	43363679.37	0.0088	0.0080 *
Venus	114013-10-24 11:29 G	43363749.77	43363749.98	43363750.20	0.0088	0.0024
Venus	114014-06-07 00:41 G	43363975.33	43363975.53	43363975.74	0.0088	0.0033
Venus	114015-01-18 13:25 G	43364200.88	43364201.06	43364201.27	0.0088	0.0043
Venus	114015-09-01 02:22 G	43364426.43	43364426.60	43364426.79	0.0088	0.0052
Venus	114016-04-13 15:34 G	43364651.99	43364652.15	43364652.31	0.0088	0.0061
Venus	114016-11-25 04:03 G	43364877.56	43364877.67	43364877.82	0.0088	0.0071
Venus	114017-07-08 17:15 G	43365103.15	43365103.22	43365103.33	0.0088	0.0080
Mars	114042-03-15 21:20 G	43374119.07	43374119.39	43374119.73	0.0088	0.0017
Jupiter	114060-06-07 16:03 G	43380777.61	43380778.17	43380778.75	0.0088	0.0009
Mercury	114085-06-12 17:29 G	43389914.18	43389914.23	43389914.30	0.0089	0.0084
Mercury	114085-09-08 20:37 G	43390002.27	43390002.36	43390002.47	0.0089	0.0074
Mercury	114085-12-05 23:44 G	43390090.38	43390090.49	43390090.63	0.0089	0.0065
Mercury	114086-03-04 03:20 G	43390178.50	43390178.64	43390178.78	0.0089	0.0056
Mercury	114086-05-31 06:27 G	43390266.62	43390266.77	43390266.93	0.0089	0.0046
Mercury	114086-08-27 09:34 G	43390354.74	43390354.90	43390355.08	0.0089	0.0037
Mercury	114086-11-23 13:10 G	43390442.87	43390443.05	43390443.22	0.0089	0.0028
Mercury	114087-02-19 16:17 G	43390531.00	43390531.18	43390531.36	0.0089	0.0018
Mercury	114087-05-18 19:39 G	43390619.14	43390619.32	43390619.50	0.0089	0.0009
Mercury	114087-08-14 23:01 G	43390707.27	43390707.46	43390707.64	0.0089	0.0001
Mercury	114087-11-11 02:08 G	43390795.41	43390795.59	43390795.78	0.0089	0.0011
Mercury	114088-02-07 05:29 G	43390883.55	43390883.73	43390883.92	0.0089	0.0020

Mercury	114088-05-05 08:51 G	43390971.70	43390971.87	43390972.05	0.0089	0.0029
Mercury	114088-08-01 11:58 G	43391059.84	43391060.00	43391060.18	0.0089	0.0039
Mercury	114088-10-28 15:34 G	43391148.00	43391148.15	43391148.31	0.0089	0.0049
Mercury	114089-01-24 18:41 G	43391236.15	43391236.28	43391236.43	0.0089	0.0058
Earth	114089-01-30 13:25 G	43391242.06	43391242.06	43391242.07	0.0089	0.0089
Mercury	114089-04-22 22:17 G	43391324.31	43391324.43	43391324.55	0.0089	0.0068
Mercury	114089-07-20 01:25 G	43391412.48	43391412.56	43391412.67	0.0089	0.0078
Venus	114089-10-09 11:44 G	43391493.98	43391493.99	43391494.05	0.0089	0.0089
Mercury	114089-10-16 04:46 G	43391500.68	43391500.70	43391500.76	0.0089	0.0087
Moon	114090-02-01 22:17 G	43391609.25	43391609.43	43391609.63	0.0089	0.0062
Earth	114090-02-02 01:10 G	43391609.41	43391609.55	43391609.75	0.0089	0.0067 *
Venus	114090-05-23 01:10 G	43391719.46	43391719.55	43391719.67	0.0089	0.0079
Venus	114091-01-03 14:37 G	43391944.98	43391945.11	43391945.26	0.0089	0.0069
Earth	114091-02-04 13:39 G	43391976.85	43391977.07	43391977.30	0.0089	0.0043
Moon	114091-02-04 17:01 G	43391977.01	43391977.21	43391977.44	0.0089	0.0048 *
Venus	114091-08-17 03:49 G	43392170.50	43392170.66	43392170.83	0.0089	0.0059
Moon	114092-02-06 22:17 G	43392344.19	43392344.43	43392344.69	0.0089	0.0015
Earth	114092-02-07 01:53 G	43392344.34	43392344.58	43392344.84	0.0089	0.0020 *
Venus	114092-03-29 16:32 G	43392396.03	43392396.19	43392396.39	0.0089	0.0050
Venus	114092-11-10 05:58 G	43392621.57	43392621.75	43392621.96	0.0089	0.0040
Earth	114093-02-08 13:53 G	43392711.83	43392712.08	43392712.34	0.0089	0.0004
Moon	114093-02-08 16:46 G	43392711.94	43392712.20	43392712.46	0.0089	0.0001 *
Venus	114093-06-23 19:10 G	43392847.10	43392847.30	43392847.52	0.0089	0.0030
Venus	114094-02-04 08:22 G	43393072.64	43393072.85	43393073.07	0.0090	0.0020
Moon	114094-02-10 23:44 G	43393079.27	43393079.49	43393079.73	0.0090	0.0032
Earth	114094-02-11 02:08 G	43393079.35	43393079.59	43393079.84	0.0090	0.0027 *
Venus	114094-09-17 21:20 G	43393298.18	43393298.39	43393298.61	0.0090	0.0010
Earth	114095-02-13 13:39 G	43393446.88	43393447.07	43393447.31	0.0090	0.0051
Moon	114095-02-13 14:37 G	43393446.90	43393447.11	43393447.35	0.0090	0.0046 *
Venus	114095-05-01 10:32 G	43393523.72	43393523.94	43393524.16	0.0090	0.0000

Venus	114095-12-12 23:44 G	43393749.27	43393749.49	43393749.71	0.0090	0.0010
Earth	114096-02-16 01:39 G	43393814.45	43393814.57	43393814.74	0.0090	0.0074
Moon	114096-02-16 02:51 G	43393814.50	43393814.62	43393814.74	0.0090	0.0078 *
Venus	114096-07-25 12:27 G	43393974.82	43393975.02	43393975.25	0.0090	0.0021
Venus	114097-03-08 01:39 G	43394200.37	43394200.57	43394200.78	0.0090	0.0030
Venus	114097-10-19 14:37 G	43394425.93	43394426.11	43394426.32	0.0090	0.0040
Venus	114098-06-02 03:34 G	43394651.48	43394651.65	43394651.85	0.0090	0.0050
Venus	114099-01-13 16:32 G	43394877.05	43394877.19	43394877.37	0.0090	0.0060
Venus	114099-08-27 05:58 G	43395102.61	43395102.75	43395102.89	0.0090	0.0069
Venus	114100-04-09 18:41 G	43395328.19	43395328.28	43395328.39	0.0090	0.0079
Venus	114100-11-21 07:25 G	43395553.80	43395553.81	43395553.87	0.0090	0.0089
Mars	114122-03-22 23:58 G	43403345.36	43403345.50	43403345.69	0.0090	0.0074
Mars	114124-02-14 22:03 G	43404039.16	43404039.42	43404039.71	0.0090	0.0031
Mercury	114165-10-17 01:53 G	43419259.56	43419259.58	43419259.61	0.0088	0.0086
Mercury	114166-01-13 03:20 G	43419347.59	43419347.64	43419347.71	0.0088	0.0079
Mercury	114166-04-11 04:46 G	43419435.63	43419435.70	43419435.79	0.0088	0.0073
Mercury	114166-07-08 06:27 G	43419523.68	43419523.77	43419523.86	0.0088	0.0066
Mercury	114166-10-04 07:39 G	43419611.73	43419611.82	43419611.93	0.0088	0.0059
Mercury	114166-12-31 09:05 G	43419699.78	43419699.88	43419700.00	0.0088	0.0052
Mercury	114167-03-29 10:46 G	43419787.84	43419787.95	43419788.07	0.0088	0.0045
Mercury	114167-06-25 12:13 G	43419875.89	43419876.01	43419876.14	0.0088	0.0038
Mercury	114167-09-21 13:53 G	43419963.95	43419964.08	43419964.20	0.0088	0.0031
Mercury	114167-12-18 15:05 G	43420052.00	43420052.13	43420052.27	0.0088	0.0025
Mercury	114168-03-15 16:32 G	43420140.06	43420140.19	43420140.33	0.0088	0.0018
Mercury	114168-06-11 18:13 G	43420228.12	43420228.26	43420228.39	0.0088	0.0011
Mercury	114168-09-07 19:39 G	43420316.18	43420316.32	43420316.45	0.0088	0.0005
Mercury	114168-12-04 21:05 G	43420404.24	43420404.38	43420404.51	0.0088	0.0003
Mercury	114169-03-02 22:32 G	43420492.30	43420492.44	43420492.57	0.0088	0.0009
Mercury	114169-05-29 23:44 G	43420580.36	43420580.49	43420580.63	0.0088	0.0016
Mercury	114169-08-26 01:10 G	43420668.42	43420668.55	43420668.69	0.0088	0.0022

Mercury	114169-11-22 02:37 G	43420756.48	43420756.61	43420756.74	0.0088	0.0029
Mercury	114170-02-18 03:49 G	43420844.55	43420844.66	43420844.80	0.0088	0.0036
Mercury	114170-05-17 05:29 G	43420932.61	43420932.73	43420932.85	0.0088	0.0042
Moon	114170-07-30 12:56 G	43421007.01	43421007.04	43421007.13	0.0088	0.0086
Earth	114170-07-30 14:51 G	43421007.03	43421007.12	43421007.22	0.0088	0.0081 *
Mercury	114170-08-13 06:41 G	43421020.68	43421020.78	43421020.90	0.0088	0.0049
Mercury	114170-11-09 08:22 G	43421108.74	43421108.85	43421108.95	0.0088	0.0055
Mercury	114171-02-05 09:34 G	43421196.81	43421196.90	43421197.00	0.0088	0.0062
Venus	114171-04-12 22:17 G	43421263.37	43421263.43	43421263.52	0.0088	0.0082
Mercury	114171-05-04 11:01 G	43421284.88	43421284.96	43421285.05	0.0088	0.0068
Mercury	114171-07-31 12:13 G	43421372.95	43421373.01	43421373.09	0.0088	0.0075
Earth	114171-08-02 01:53 G	43421374.39	43421374.58	43421374.77	0.0088	0.0059
Moon	114171-08-02 04:46 G	43421374.51	43421374.70	43421374.90	0.0088	0.0055 *
Mercury	114171-10-27 13:25 G	43421461.03	43421461.06	43421461.12	0.0088	0.0082
Venus	114171-11-24 11:01 G	43421488.86	43421488.96	43421489.10	0.0088	0.0073
Venus	114172-07-06 23:44 G	43421714.36	43421714.49	43421714.66	0.0088	0.0064
Moon	114172-08-03 09:34 G	43421741.68	43421741.90	43421742.14	0.0088	0.0041
Earth	114172-08-03 12:41 G	43421741.81	43421742.03	43421742.28	0.0088	0.0037 *
Venus	114173-02-17 12:56 G	43421939.87	43421940.04	43421940.22	0.0088	0.0054
Earth	114173-08-05 23:58 G	43422109.25	43422109.50	43422109.76	0.0088	0.0015
Moon	114173-08-06 03:49 G	43422109.41	43422109.66	43422109.92	0.0088	0.0010 *
Venus	114173-10-01 01:39 G	43422165.39	43422165.57	43422165.77	0.0088	0.0045
Venus	114174-05-14 14:22 G	43422390.92	43422391.10	43422391.32	0.0088	0.0036
Moon	114174-08-08 08:08 G	43422476.59	43422476.84	43422477.10	0.0088	0.0004
Earth	114174-08-08 11:15 G	43422476.72	43422476.97	43422477.23	0.0088	0.0008 *
Venus	114174-12-26 03:34 G	43422616.45	43422616.65	43422616.87	0.0088	0.0026
Venus	114175-08-08 16:32 G	43422841.98	43422842.19	43422842.41	0.0088	0.0017
Earth	114175-08-10 22:17 G	43422844.20	43422844.43	43422844.69	0.0088	0.0030
Moon	114175-08-11 00:56 G	43422844.31	43422844.54	43422844.80	0.0088	0.0034 *
Venus	114176-03-21 05:29 G	43423067.51	43423067.73	43423067.95	0.0088	0.0007

Moon	114176-08-12 08:08 G	43423211.64	43423211.84	43423212.06	0.0088	0.0048
Earth	114176-08-12 09:20 G	43423211.71	43423211.89	43423212.13	0.0088	0.0053 *
Venus	114176-11-01 18:27 G	43423293.04	43423293.27	43423293.49	0.0088	0.0003
Venus	114177-06-15 07:25 G	43423518.59	43423518.81	43423519.03	0.0088	0.0012
Moon	114177-08-14 20:37 G	43423579.25	43423579.36	43423579.49	0.0088	0.0078
Earth	114177-08-14 20:22 G	43423579.25	43423579.35	43423579.52	0.0088	0.0075 *
Venus	114178-01-26 20:22 G	43423744.13	43423744.35	43423744.56	0.0088	0.0021
Venus	114178-09-09 09:05 G	43423969.68	43423969.88	43423970.09	0.0088	0.0031
Venus	114179-04-22 22:03 G	43424195.23	43424195.42	43424195.62	0.0088	0.0040
Venus	114179-12-04 10:46 G	43424420.78	43424420.95	43424421.15	0.0088	0.0050
Venus	114180-07-16 23:58 G	43424646.34	43424646.50	43424646.67	0.0088	0.0059
Venus	114181-02-27 12:27 G	43424871.91	43424872.02	43424872.18	0.0088	0.0069
Venus	114181-10-11 01:39 G	43425097.49	43425097.57	43425097.69	0.0088	0.0078
Venus	114182-05-24 14:51 G	43425323.11	43425323.12	43425323.16	0.0088	0.0087
Mars	114205-10-29 11:58 G	43433880.70	43433881.00	43433881.34	0.0088	0.0028
Mars	114207-09-25 07:25 G	43434576.78	43434576.81	43434576.91	0.0088	0.0086
Jupiter	114226-08-09 11:15 G	43441469.52	43441469.97	43441470.52	0.0088	0.0044
Mercury	114250-03-11 15:05 G	43450085.07	43450085.13	43450085.21	0.0089	0.0082
Mercury	114250-06-07 18:13 G	43450173.16	43450173.26	43450173.37	0.0089	0.0073
Mercury	114250-09-03 21:20 G	43450261.27	43450261.39	43450261.53	0.0089	0.0064
Mercury	114250-12-01 00:27 G	43450349.39	43450349.52	43450349.68	0.0089	0.0055
Mercury	114251-02-27 03:49 G	43450437.51	43450437.66	43450437.83	0.0089	0.0045
Mercury	114251-05-26 07:10 G	43450525.64	43450525.80	43450525.97	0.0089	0.0036
Mercury	114251-08-22 10:17 G	43450613.76	43450613.93	43450614.12	0.0089	0.0027
Mercury	114251-11-18 13:39 G	43450701.90	43450702.07	43450702.26	0.0089	0.0017
Mercury	114252-02-14 17:01 G	43450790.03	43450790.21	43450790.40	0.0089	0.0007
Mercury	114252-05-12 20:22 G	43450878.16	43450878.35	43450878.54	0.0089	0.0002
Mercury	114252-08-08 23:44 G	43450966.30	43450966.49	43450966.67	0.0089	0.0012
Mercury	114252-11-05 02:51 G	43451054.44	43451054.62	43451054.81	0.0089	0.0021
Mercury	114253-02-01 05:58 G	43451142.59	43451142.75	43451142.94	0.0089	0.0031

Mercury	114253-04-30 09:20 G	43451230.74	43451230.89	43451231.07	0.0089	0.0041
Mercury	114253-07-27 12:41 G	43451318.89	43451319.03	43451319.20	0.0089	0.0050
Mercury	114253-10-23 16:03 G	43451407.04	43451407.17	43451407.32	0.0089	0.0060
Mercury	114254-01-19 19:25 G	43451495.21	43451495.31	43451495.44	0.0089	0.0069
Earth	114254-02-03 06:13 G	43451509.65	43451509.76	43451509.91	0.0089	0.0077
Moon	114254-02-03 07:25 G	43451509.73	43451509.81	43451509.94	0.0089	0.0082 *
Mercury	114254-04-17 23:01 G	43451583.38	43451583.46	43451583.55	0.0089	0.0079
Mercury	114254-07-15 02:08 G	43451671.58	43451671.59	43451671.63	0.0089	0.0089
Venus	114254-08-26 09:05 G	43451713.81	43451713.88	43451713.99	0.0089	0.0082
Moon	114255-02-05 16:32 G	43451876.98	43451877.19	43451877.42	0.0089	0.0050
Earth	114255-02-05 18:27 G	43451877.09	43451877.27	43451877.50	0.0089	0.0055 *
Venus	114255-04-08 22:32 G	43451939.32	43451939.44	43451939.58	0.0089	0.0072
Venus	114255-11-20 11:58 G	43452164.85	43452165.00	43452165.17	0.0089	0.0062
Earth	114256-02-08 06:41 G	43452244.55	43452244.78	43452245.03	0.0089	0.0031
Moon	114256-02-08 10:03 G	43452244.70	43452244.92	43452245.16	0.0089	0.0035 *
Venus	114256-07-03 01:10 G	43452390.38	43452390.55	43452390.73	0.0089	0.0052
Moon	114257-02-09 15:49 G	43452611.90	43452612.16	43452612.41	0.0089	0.0004
Earth	114257-02-09 19:10 G	43452612.04	43452612.30	43452612.56	0.0089	0.0007 *
Venus	114257-02-13 13:53 G	43452615.91	43452616.08	43452616.29	0.0089	0.0043
Venus	114257-09-27 03:05 G	43452841.44	43452841.63	43452841.85	0.0089	0.0033
Earth	114258-02-12 07:10 G	43452979.55	43452979.80	43452980.05	0.0089	0.0016
Moon	114258-02-12 10:32 G	43452979.69	43452979.94	43452980.21	0.0089	0.0012 *
Venus	114258-05-10 16:17 G	43453066.98	43453067.18	43453067.40	0.0089	0.0023
Venus	114258-12-22 05:44 G	43453292.53	43453292.74	43453292.96	0.0089	0.0012
Moon	114259-02-14 16:17 G	43453346.97	43453347.18	43453347.41	0.0089	0.0044
Earth	114259-02-14 18:41 G	43453347.07	43453347.28	43453347.53	0.0089	0.0040 *
Venus	114259-08-04 18:56 G	43453518.07	43453518.29	43453518.51	0.0090	0.0003
Earth	114260-02-17 06:41 G	43453714.62	43453714.78	43453714.98	0.0090	0.0063
Moon	114260-02-17 08:08 G	43453714.67	43453714.84	43453715.07	0.0090	0.0059 *
Venus	114260-03-17 07:53 G	43453743.61	43453743.83	43453744.05	0.0090	0.0007

Venus	114260-10-28 20:51 G	43453969.16	43453969.37	43453969.59	0.0090	0.0017
Earth	114261-02-18 18:41 G	43454082.23	43454082.28	43454082.37	0.0090	0.0086
Venus	114261-06-11 10:03 G	43454194.71	43454194.92	43454195.13	0.0090	0.0027
Venus	114262-01-22 23:01 G	43454420.26	43454420.46	43454420.66	0.0090	0.0037
Venus	114262-09-05 11:58 G	43454645.82	43454646.00	43454646.19	0.0090	0.0047
Venus	114263-04-19 00:41 G	43454871.38	43454871.53	43454871.72	0.0090	0.0057
Venus	114263-11-30 13:39 G	43455096.95	43455097.07	43455097.24	0.0090	0.0067
Venus	114264-07-13 03:05 G	43455322.52	43455322.63	43455322.75	0.0090	0.0076
Venus	114265-02-23 15:49 G	43455548.12	43455548.16	43455548.24	0.0090	0.0086
Mars	114287-09-30 23:29 G	43463802.20	43463802.48	43463802.78	0.0090	0.0014
Mercury	114330-07-16 00:41 G	43479430.51	43479430.53	43479430.57	0.0088	0.0085
Mercury	114330-10-12 02:08 G	43479518.54	43479518.59	43479518.66	0.0088	0.0078
Mercury	114331-01-08 03:49 G	43479606.59	43479606.66	43479606.75	0.0088	0.0071
Mercury	114331-04-06 05:15 G	43479694.63	43479694.72	43479694.82	0.0088	0.0064
Mercury	114331-07-03 06:56 G	43479782.68	43479782.79	43479782.89	0.0088	0.0057
Mercury	114331-09-29 08:22 G	43479870.74	43479870.85	43479870.96	0.0088	0.0051
Mercury	114331-12-26 09:34 G	43479958.79	43479958.90	43479959.03	0.0088	0.0044
Mercury	114332-03-23 11:15 G	43480046.85	43480046.97	43480047.10	0.0088	0.0037
Mercury	114332-06-19 12:41 G	43480134.90	43480135.03	43480135.16	0.0088	0.0030
Mercury	114332-09-15 14:08 G	43480222.96	43480223.09	43480223.23	0.0088	0.0024
Mercury	114332-12-12 15:34 G	43480311.02	43480311.15	43480311.29	0.0088	0.0017
Mercury	114333-03-10 17:15 G	43480399.08	43480399.22	43480399.35	0.0088	0.0010
Mercury	114333-06-06 18:41 G	43480487.14	43480487.28	43480487.41	0.0088	0.0004
Mercury	114333-09-02 20:08 G	43480575.20	43480575.34	43480575.47	0.0088	0.0004
Mercury	114333-11-29 21:20 G	43480663.26	43480663.39	43480663.53	0.0088	0.0011
Mercury	114334-02-25 23:01 G	43480751.32	43480751.46	43480751.59	0.0088	0.0017
Mercury	114334-05-25 00:13 G	43480839.38	43480839.51	43480839.65	0.0088	0.0024
Mercury	114334-08-21 01:39 G	43480927.45	43480927.57	43480927.70	0.0088	0.0030
Mercury	114334-11-17 03:05 G	43481015.51	43481015.63	43481015.76	0.0088	0.0037
Mercury	114335-02-13 04:17 G	43481103.57	43481103.68	43481103.81	0.0088	0.0044

Mercury	114335-05-12 05:58 G	43481191.64	43481191.75	43481191.86	0.0088	0.0050
Venus	114335-07-17 06:56 G	43481257.75	43481257.79	43481257.87	0.0088	0.0084
Moon	114335-08-03 04:46 G	43481274.57	43481274.70	43481274.90	0.0088	0.0070
Earth	114335-08-03 07:10 G	43481274.68	43481274.80	43481274.99	0.0088	0.0070 *
Mercury	114335-08-08 07:10 G	43481279.71	43481279.80	43481279.91	0.0088	0.0057
Mercury	114335-11-04 08:37 G	43481367.77	43481367.86	43481367.96	0.0088	0.0063
Mercury	114336-01-31 09:49 G	43481455.84	43481455.91	43481456.00	0.0088	0.0070
Venus	114336-02-27 19:39 G	43481483.22	43481483.32	43481483.45	0.0088	0.0075
Mercury	114336-04-28 11:29 G	43481543.92	43481543.98	43481544.05	0.0088	0.0076
Mercury	114336-07-25 12:41 G	43481632.00	43481632.03	43481632.08	0.0088	0.0083
Earth	114336-08-04 18:56 G	43481642.07	43481642.29	43481642.51	0.0088	0.0047
Moon	114336-08-04 21:20 G	43481642.19	43481642.39	43481642.62	0.0088	0.0047 *
Venus	114336-10-10 08:22 G	43481708.72	43481708.85	43481709.01	0.0088	0.0066
Venus	114337-05-23 21:05 G	43481934.24	43481934.38	43481934.57	0.0088	0.0057
Moon	114337-08-07 02:08 G	43482009.35	43482009.59	43482009.85	0.0088	0.0026
Earth	114337-08-07 05:44 G	43482009.50	43482009.74	43482010.00	0.0088	0.0025 *
Venus	114338-01-04 10:17 G	43482159.75	43482159.93	43482160.12	0.0088	0.0047
Earth	114338-08-09 17:01 G	43482376.96	43482377.21	43482377.47	0.0088	0.0003
Moon	114338-08-09 20:37 G	43482377.10	43482377.36	43482377.62	0.0088	0.0003 *
Venus	114338-08-17 23:01 G	43482385.27	43482385.46	43482385.67	0.0088	0.0038
Venus	114339-03-31 11:58 G	43482610.80	43482611.00	43482611.21	0.0088	0.0028
Moon	114339-08-12 01:25 G	43482744.32	43482744.56	43482744.81	0.0088	0.0019
Earth	114339-08-12 04:17 G	43482744.44	43482744.68	43482744.94	0.0088	0.0020 *
Venus	114339-11-12 00:56 G	43482836.33	43482836.54	43482836.76	0.0088	0.0019
Venus	114340-06-24 13:53 G	43483061.86	43483062.08	43483062.30	0.0088	0.0009
Earth	114340-08-13 15:20 G	43483111.93	43483112.14	43483112.38	0.0088	0.0042
Moon	114340-08-13 17:44 G	43483112.02	43483112.24	43483112.49	0.0088	0.0043 *
Venus	114341-02-05 02:51 G	43483287.40	43483287.62	43483287.84	0.0088	0.0001
Moon	114341-08-16 01:53 G	43483479.44	43483479.58	43483479.78	0.0088	0.0065
Earth	114341-08-16 03:05 G	43483479.46	43483479.63	43483479.81	0.0088	0.0064 *



Venus	114341-09-18 15:48 G	43483512.94	43483513.16	43483513.38	0.0088	0.0010
Venus	114342-05-02 04:46 G	43483738.49	43483738.70	43483738.92	0.0088	0.0019
Moon	114342-08-18 13:10 G	43483847.04	43483847.05	43483847.12	0.0088	0.0087
Earth	114342-08-18 13:39 G	43483847.06	43483847.07	43483847.14	0.0088	0.0087 *
Venus	114342-12-13 17:29 G	43483964.03	43483964.23	43483964.45	0.0088	0.0029
Venus	114343-07-27 06:41 G	43484189.58	43484189.78	43484189.98	0.0088	0.0038
Venus	114344-03-08 19:24 G	43484415.14	43484415.31	43484415.51	0.0088	0.0048
Venus	114344-10-20 08:22 G	43484640.70	43484640.85	43484641.03	0.0088	0.0057
Venus	114345-06-02 21:20 G	43484866.27	43484866.39	43484866.55	0.0088	0.0067
Venus	114346-01-14 10:17 G	43485091.84	43485091.93	43485092.06	0.0088	0.0076
Venus	114346-08-27 23:29 G	43485317.44	43485317.48	43485317.54	0.0088	0.0085
Mars	114369-06-13 02:51 G	43493642.48	43493642.62	43493642.84	0.0088	0.0074
Mars	114371-05-09 21:05 G	43494338.10	43494338.38	43494338.70	0.0088	0.0040
Jupiter	114392-10-12 02:51 G	43502164.40	43502164.62	43502164.89	0.0088	0.0080
Mercury	114414-09-10 09:34 G	43510167.89	43510167.90	43510167.93	0.0089	0.0089
Mercury	114414-12-07 12:41 G	43510255.96	43510256.03	43510256.12	0.0089	0.0080
Mercury	114415-03-05 15:48 G	43510344.06	43510344.16	43510344.29	0.0089	0.0071
Mercury	114415-06-01 18:56 G	43510432.18	43510432.29	43510432.44	0.0089	0.0062
Mercury	114415-08-28 22:17 G	43510520.29	43510520.43	43510520.59	0.0089	0.0052
Mercury	114415-11-25 01:39 G	43510608.41	43510608.57	43510608.74	0.0089	0.0043
Mercury	114416-02-21 04:46 G	43510696.54	43510696.70	43510696.88	0.0089	0.0034
Mercury	114416-05-19 08:08 G	43510784.67	43510784.84	43510785.02	0.0089	0.0024
Mercury	114416-08-15 11:29 G	43510872.80	43510872.98	43510873.16	0.0089	0.0015
Mercury	114416-11-11 14:51 G	43510960.93	43510961.12	43510961.30	0.0089	0.0005
Mercury	114417-02-07 17:58 G	43511049.07	43511049.25	43511049.44	0.0089	0.0004
Mercury	114417-05-06 21:05 G	43511137.21	43511137.38	43511137.57	0.0089	0.0015
Mercury	114417-08-03 00:27 G	43511225.35	43511225.52	43511225.71	0.0089	0.0024
Mercury	114417-10-30 03:34 G	43511313.49	43511313.65	43511313.84	0.0089	0.0034
Mercury	114418-01-26 07:10 G	43511401.64	43511401.80	43511401.97	0.0089	0.0042
Earth	114418-02-03 11:44 G	43511409.98	43511409.99	43511410.05	0.0089	0.0089

Mercury	114418-04-24 10:17 G	43511489.79	43511489.93	43511490.10	0.0089	0.0052
Mercury	114418-07-21 13:53 G	43511577.95	43511578.08	43511578.22	0.0089	0.0061
Mercury	114418-10-17 17:00 G	43511666.11	43511666.21	43511666.33	0.0089	0.0071
Venus	114418-11-28 17:44 G	43511708.18	43511708.24	43511708.33	0.0089	0.0084
Mercury	114419-01-13 20:36 G	43511754.29	43511754.36	43511754.44	0.0089	0.0081
Earth	114419-02-05 23:44 G	43511777.34	43511777.49	43511777.69	0.0089	0.0066
Moon	114419-02-06 02:36 G	43511777.45	43511777.61	43511777.80	0.0089	0.0065 *
Venus	114419-07-12 07:10 G	43511933.69	43511933.80	43511933.93	0.0089	0.0074
Moon	114420-02-08 08:51 G	43512144.66	43512144.87	43512145.11	0.0089	0.0044
Earth	114420-02-08 12:41 G	43512144.81	43512145.03	43512145.26	0.0089	0.0042 *
Venus	114420-02-22 20:08 G	43512159.21	43512159.34	43512159.51	0.0089	0.0064
Venus	114420-10-05 09:20 G	43512384.74	43512384.89	43512385.08	0.0089	0.0055
Earth	114421-02-10 00:41 G	43512512.29	43512512.53	43512512.79	0.0089	0.0019
Moon	114421-02-10 04:03 G	43512512.43	43512512.67	43512512.94	0.0089	0.0018 *
Venus	114421-05-18 22:46 G	43512610.27	43512610.45	43512610.65	0.0089	0.0045
Venus	114421-12-30 11:58 G	43512835.81	43512836.00	43512836.21	0.0089	0.0035
Moon	114422-02-12 09:48 G	43512879.65	43512879.91	43512880.16	0.0089	0.0004
Earth	114422-02-12 12:56 G	43512879.79	43512880.04	43512880.30	0.0089	0.0005 *
Venus	114422-08-13 01:10 G	43513061.35	43513061.55	43513061.77	0.0089	0.0025
Earth	114423-02-15 00:41 G	43513247.30	43513247.53	43513247.78	0.0089	0.0029
Moon	114423-02-15 03:05 G	43513247.39	43513247.63	43513247.89	0.0089	0.0030 *
Venus	114423-03-26 14:22 G	43513286.89	43513287.10	43513287.32	0.0089	0.0015
Venus	114423-11-07 03:34 G	43513512.43	43513512.65	43513512.87	0.0089	0.0005
Moon	114424-02-17 11:44 G	43513614.80	43513614.99	43513615.21	0.0089	0.0051
Earth	114424-02-17 12:41 G	43513614.83	43513615.03	43513615.25	0.0089	0.0052 *
Venus	114424-06-19 16:32 G	43513737.97	43513738.19	43513738.41	0.0090	0.0005
Venus	114425-01-31 05:29 G	43513963.52	43513963.73	43513963.95	0.0090	0.0015
Earth	114425-02-19 00:41 G	43513982.40	43513982.53	43513982.68	0.0090	0.0075
Moon	114425-02-19 00:27 G	43513982.40	43513982.52	43513982.68	0.0090	0.0076 *
Venus	114425-09-13 18:27 G	43514189.07	43514189.27	43514189.49	0.0090	0.0025

Venus	114426-04-27 07:24 G	43514414.62	43514414.81	43514415.02	0.0090	0.0034
Venus	114426-12-08 20:22 G	43514640.18	43514640.35	43514640.56	0.0090	0.0045
Venus	114427-07-22 09:34 G	43514865.73	43514865.90	43514866.08	0.0090	0.0054
Venus	114428-03-03 22:17 G	43515091.29	43515091.43	43515091.60	0.0090	0.0064
Venus	114428-10-15 11:00 G	43515316.86	43515316.96	43515317.11	0.0090	0.0074
Venus	114429-05-29 00:27 G	43515542.45	43515542.52	43515542.61	0.0090	0.0083
Mars	114451-05-16 23:44 G	43523565.29	43523565.49	43523565.73	0.0090	0.0058
Mars	114453-04-09 23:00 G	43524259.24	43524259.46	43524259.73	0.0090	0.0048
Jupiter	114469-07-17 04:32 G	43530201.41	43530201.69	43530202.08	0.0089	0.0069
Mercury	114495-04-11 23:58 G	43539601.46	43539601.50	43539601.54	0.0088	0.0084
Mercury	114495-07-09 01:10 G	43539689.49	43539689.55	43539689.63	0.0088	0.0077
Mercury	114495-10-05 02:36 G	43539777.54	43539777.61	43539777.71	0.0088	0.0070
Mercury	114496-01-01 04:03 G	43539865.59	43539865.67	43539865.78	0.0088	0.0064
Mercury	114496-03-29 05:44 G	43539953.64	43539953.74	43539953.86	0.0088	0.0056
Mercury	114496-06-25 07:10 G	43540041.70	43540041.80	43540041.93	0.0088	0.0050
Mercury	114496-09-21 08:51 G	43540129.75	43540129.87	43540129.99	0.0088	0.0042
Mercury	114496-12-18 10:17 G	43540217.81	43540217.93	43540218.06	0.0088	0.0036
Mercury	114497-03-16 11:44 G	43540305.87	43540305.99	43540306.13	0.0088	0.0029
Mercury	114497-06-12 13:10 G	43540393.92	43540394.05	43540394.19	0.0088	0.0022
Mercury	114497-09-08 14:51 G	43540481.98	43540482.12	43540482.25	0.0088	0.0015
Mercury	114497-12-05 16:17 G	43540570.04	43540570.18	43540570.32	0.0088	0.0008
Mercury	114498-03-03 17:44 G	43540658.10	43540658.24	43540658.38	0.0088	0.0002
Mercury	114498-05-30 19:10 G	43540746.16	43540746.30	43540746.44	0.0088	0.0005
Mercury	114498-08-26 20:36 G	43540834.22	43540834.36	43540834.50	0.0088	0.0012
Mercury	114498-11-22 21:48 G	43540922.28	43540922.41	43540922.55	0.0088	0.0019
Mercury	114499-02-18 23:29 G	43541010.35	43541010.48	43541010.61	0.0088	0.0025
Mercury	114499-05-18 00:41 G	43541098.41	43541098.53	43541098.66	0.0088	0.0032
Earth	114499-08-02 13:24 G	43541174.98	43541175.06	43541175.19	0.0088	0.0080
Moon	114499-08-02 16:32 G	43541175.15	43541175.19	43541175.28	0.0088	0.0085 *
Mercury	114499-08-14 02:08 G	43541186.47	43541186.59	43541186.72	0.0088	0.0039

Venus	114499-10-18 15:48 G	43541252.13	43541252.16	43541252.21	0.0088	0.0086
Mercury	114499-11-10 03:34 G	43541274.54	43541274.65	43541274.77	0.0088	0.0045
Mercury	114500-02-06 04:46 G	43541362.60	43541362.70	43541362.82	0.0088	0.0052
Mercury	114500-05-05 06:27 G	43541450.67	43541450.77	43541450.87	0.0088	0.0058
Venus	114500-06-01 04:32 G	43541477.60	43541477.69	43541477.81	0.0088	0.0077
Mercury	114500-08-01 07:39 G	43541538.74	43541538.82	43541538.92	0.0088	0.0065
Moon	114500-08-04 21:05 G	43541542.19	43541542.38	43541542.60	0.0088	0.0053
Earth	114500-08-05 00:27 G	43541542.35	43541542.52	43541542.74	0.0088	0.0058 *
Mercury	114500-10-28 09:20 G	43541626.81	43541626.89	43541626.97	0.0088	0.0071
Venus	114501-01-12 17:00 G	43541703.09	43541703.21	43541703.37	0.0088	0.0068
Mercury	114501-01-24 10:17 G	43541714.88	43541714.93	43541715.01	0.0088	0.0078
Mercury	114501-04-22 11:58 G	43541802.97	43541803.00	43541803.04	0.0088	0.0084
Earth	114501-08-07 11:44 G	43541909.76	43541909.99	43541910.24	0.0088	0.0035
Moon	114501-08-07 15:20 G	43541909.92	43541910.14	43541910.38	0.0088	0.0040 *
Venus	114501-08-26 05:44 G	43541928.60	43541928.74	43541928.93	0.0088	0.0059
Venus	114502-04-08 18:56 G	43542154.11	43542154.29	43542154.48	0.0088	0.0049
Moon	114502-08-09 20:08 G	43542277.09	43542277.34	43542277.60	0.0088	0.0008
Earth	114502-08-09 23:00 G	43542277.21	43542277.46	43542277.72	0.0088	0.0013 *
Venus	114502-11-20 07:24 G	43542379.63	43542379.81	43542380.02	0.0088	0.0040
Venus	114503-07-03 20:22 G	43542605.15	43542605.35	43542605.57	0.0088	0.0031
Earth	114503-08-12 10:03 G	43542644.67	43542644.92	43542645.18	0.0088	0.0010
Moon	114503-08-12 11:58 G	43542644.73	43542645.00	43542645.27	0.0088	0.0005 *
Venus	114504-02-14 09:20 G	43542830.68	43542830.89	43542831.11	0.0088	0.0021
Moon	114504-08-13 20:22 G	43543012.12	43543012.35	43543012.58	0.0088	0.0036
Earth	114504-08-13 20:51 G	43543012.15	43543012.37	43543012.63	0.0088	0.0032 *
Venus	114504-09-26 22:03 G	43543056.21	43543056.42	43543056.65	0.0088	0.0012
Venus	114505-05-10 11:15 G	43543281.75	43543281.97	43543282.19	0.0088	0.0002
Moon	114505-08-16 07:24 G	43543379.59	43543379.81	43543380.03	0.0088	0.0049
Earth	114505-08-16 08:22 G	43543379.65	43543379.85	43543380.06	0.0088	0.0054 *
Venus	114505-12-21 23:58 G	43543507.29	43543507.50	43543507.73	0.0088	0.0008

Venus	114506-08-04 12:56 G	43543732.83	43543733.04	43543733.26	0.0088	0.0017
Earth	114506-08-18 19:10 G	43543747.20	43543747.30	43543747.45	0.0088	0.0077
Moon	114506-08-18 21:34 G	43543747.32	43543747.40	43543747.51	0.0088	0.0081 *
Venus	114507-03-18 01:53 G	43543958.37	43543958.58	43543958.80	0.0088	0.0026
Venus	114507-10-29 14:36 G	43544183.92	43544184.11	43544184.33	0.0088	0.0036
Venus	114508-06-11 04:03 G	43544409.48	43544409.67	43544409.86	0.0088	0.0045
Venus	114509-01-22 16:46 G	43544635.04	43544635.20	43544635.39	0.0088	0.0055
Venus	114509-09-05 05:44 G	43544860.60	43544860.74	43544860.90	0.0088	0.0064
Venus	114510-04-18 18:27 G	43545086.17	43545086.27	43545086.41	0.0088	0.0074
Venus	114510-11-30 07:39 G	43545311.77	43545311.82	43545311.91	0.0088	0.0083
Mars	114534-12-22 13:24 G	43554099.73	43554100.06	43554100.40	0.0088	0.0006
Mercury	114579-06-08 07:10 G	43570338.78	43570338.80	43570338.87	0.0089	0.0087
Mercury	114579-09-04 10:17 G	43570426.86	43570426.93	43570427.04	0.0089	0.0078
Mercury	114579-12-01 13:39 G	43570514.97	43570515.07	43570515.20	0.0089	0.0068
Mercury	114580-02-27 17:15 G	43570603.08	43570603.22	43570603.35	0.0089	0.0059
Mercury	114580-05-25 20:08 G	43570691.20	43570691.34	43570691.50	0.0089	0.0050
Mercury	114580-08-21 23:15 G	43570779.32	43570779.47	43570779.65	0.0089	0.0041
Mercury	114580-11-18 02:36 G	43570867.44	43570867.61	43570867.79	0.0089	0.0031
Mercury	114581-02-14 05:58 G	43570955.57	43570955.75	43570955.93	0.0089	0.0022
Mercury	114581-05-13 09:05 G	43571043.70	43571043.88	43571044.07	0.0089	0.0013
Mercury	114581-08-09 12:27 G	43571131.84	43571132.02	43571132.21	0.0089	0.0003
Mercury	114581-11-05 15:48 G	43571219.97	43571220.16	43571220.34	0.0089	0.0007
Mercury	114582-02-01 18:56 G	43571308.11	43571308.29	43571308.48	0.0089	0.0016
Mercury	114582-04-30 22:17 G	43571396.25	43571396.43	43571396.61	0.0089	0.0025
Mercury	114582-07-28 01:24 G	43571484.40	43571484.56	43571484.74	0.0089	0.0035
Mercury	114582-10-24 04:46 G	43571572.55	43571572.70	43571572.87	0.0089	0.0044
Mercury	114583-01-20 07:53 G	43571660.70	43571660.83	43571660.99	0.0089	0.0054
Moon	114583-02-06 02:08 G	43571677.50	43571677.59	43571677.72	0.0089	0.0081
Earth	114583-02-06 05:29 G	43571677.63	43571677.73	43571677.89	0.0089	0.0076 *
Venus	114583-03-03 01:53 G	43571702.55	43571702.58	43571702.67	0.0089	0.0087

Mercury	114583-04-18 11:29 G	43571748.85	43571748.98	43571749.11	0.0089	0.0063
Mercury	114583-07-15 14:36 G	43571837.02	43571837.11	43571837.23	0.0089	0.0073
Mercury	114583-10-11 18:12 G	43571925.20	43571925.26	43571925.33	0.0089	0.0083
Venus	114583-10-14 15:20 G	43571928.05	43571928.14	43571928.27	0.0089	0.0077
Earth	114584-02-08 18:12 G	43572045.06	43572045.26	43572045.47	0.0089	0.0053
Moon	114584-02-08 21:20 G	43572045.20	43572045.39	43572045.63	0.0089	0.0049 *
Venus	114584-05-27 04:46 G	43572153.57	43572153.70	43572153.86	0.0089	0.0067
Venus	114585-01-07 18:12 G	43572379.10	43572379.26	43572379.44	0.0089	0.0057
Moon	114585-02-10 04:03 G	43572412.45	43572412.67	43572412.92	0.0089	0.0034
Earth	114585-02-10 06:27 G	43572412.54	43572412.77	43572413.02	0.0089	0.0029 *
Venus	114585-08-21 07:24 G	43572604.63	43572604.81	43572605.01	0.0089	0.0047
Earth	114586-02-12 18:41 G	43572780.03	43572780.28	43572780.54	0.0089	0.0007
Moon	114586-02-12 20:22 G	43572780.09	43572780.35	43572780.62	0.0089	0.0003 *
Venus	114586-04-03 20:22 G	43572830.17	43572830.35	43572830.57	0.0089	0.0038
Venus	114586-11-15 09:48 G	43573055.71	43573055.91	43573056.13	0.0089	0.0027
Earth	114587-02-15 06:56 G	43573147.54	43573147.79	43573148.04	0.0089	0.0018
Moon	114587-02-15 06:41 G	43573147.54	43573147.78	43573148.03	0.0089	0.0013 *
Venus	114587-06-28 23:00 G	43573281.26	43573281.46	43573281.69	0.0089	0.0018
Venus	114588-02-09 12:12 G	43573506.80	43573507.01	43573507.23	0.0089	0.0008
Moon	114588-02-17 17:15 G	43573515.00	43573515.22	43573515.46	0.0089	0.0045
Earth	114588-02-17 19:10 G	43573515.07	43573515.30	43573515.53	0.0089	0.0041 *
Venus	114588-09-22 01:24 G	43573732.34	43573732.56	43573732.78	0.0089	0.0003
Earth	114589-02-19 06:27 G	43573882.62	43573882.77	43573882.98	0.0089	0.0065
Moon	114589-02-19 08:51 G	43573882.71	43573882.87	43573883.07	0.0089	0.0061 *
Venus	114589-05-05 14:22 G	43573957.89	43573958.10	43573958.32	0.0089	0.0013
Venus	114589-12-17 03:20 G	43574183.44	43574183.64	43574183.87	0.0089	0.0023
Earth	114590-02-21 18:27 G	43574250.24	43574250.27	43574250.35	0.0089	0.0088
Venus	114590-07-30 16:46 G	43574408.99	43574409.20	43574409.40	0.0090	0.0032
Venus	114591-03-13 05:29 G	43574634.55	43574634.73	43574634.93	0.0090	0.0042
Venus	114591-10-24 18:27 G	43574860.10	43574860.27	43574860.46	0.0090	0.0052

Venus	114592-06-06 07:10 G	43575085.66	43575085.80	43575085.98	0.0090	0.0062
Venus	114593-01-17 20:36 G	43575311.23	43575311.36	43575311.50	0.0090	0.0071
Venus	114593-08-31 09:20 G	43575536.81	43575536.89	43575537.00	0.0090	0.0081
Mars	114616-11-25 00:41 G	43584022.23	43584022.53	43584022.82	0.0090	0.0004
Jupiter	114635-09-15 18:56 G	43590890.86	43590891.29	43590891.81	0.0089	0.0036
Mercury	114660-01-08 22:46 G	43599772.41	43599772.45	43599772.50	0.0088	0.0082
Mercury	114660-04-06 00:12 G	43599860.45	43599860.51	43599860.59	0.0088	0.0075
Mercury	114660-07-03 01:53 G	43599948.50	43599948.58	43599948.67	0.0088	0.0068
Mercury	114660-09-29 03:20 G	43600036.55	43600036.64	43600036.74	0.0088	0.0061
Mercury	114660-12-26 05:00 G	43600124.60	43600124.71	43600124.82	0.0088	0.0055
Mercury	114661-03-24 06:12 G	43600212.65	43600212.76	43600212.89	0.0088	0.0048
Mercury	114661-06-20 07:39 G	43600300.71	43600300.82	43600300.96	0.0088	0.0042
Mercury	114661-09-16 09:20 G	43600388.77	43600388.89	43600389.02	0.0088	0.0034
Mercury	114661-12-13 10:46 G	43600476.83	43600476.95	43600477.09	0.0088	0.0027
Mercury	114662-03-11 12:27 G	43600564.88	43600565.02	43600565.15	0.0088	0.0020
Mercury	114662-06-07 13:53 G	43600652.94	43600653.08	43600653.22	0.0088	0.0014
Mercury	114662-09-03 15:20 G	43600741.00	43600741.14	43600741.28	0.0088	0.0007
Mercury	114662-11-30 16:46 G	43600829.06	43600829.20	43600829.34	0.0088	0.0001
Mercury	114663-02-26 18:12 G	43600917.12	43600917.26	43600917.40	0.0088	0.0007
Mercury	114663-05-25 19:39 G	43601005.19	43601005.32	43601005.46	0.0088	0.0014
Mercury	114663-08-21 21:05 G	43601093.25	43601093.38	43601093.52	0.0088	0.0020
Mercury	114663-11-17 22:32 G	43601181.31	43601181.44	43601181.57	0.0088	0.0027
Mercury	114664-02-13 23:44 G	43601269.37	43601269.49	43601269.63	0.0088	0.0034
Mercury	114664-05-12 01:24 G	43601357.44	43601357.56	43601357.68	0.0088	0.0040
Earth	114664-08-05 06:41 G	43601442.64	43601442.78	43601442.97	0.0088	0.0068
Moon	114664-08-05 09:48 G	43601442.76	43601442.91	43601443.10	0.0088	0.0067 *
Mercury	114664-08-08 02:36 G	43601445.50	43601445.61	43601445.73	0.0088	0.0047
Venus	114664-09-03 13:10 G	43601471.98	43601472.05	43601472.16	0.0088	0.0079
Mercury	114664-11-04 04:17 G	43601533.57	43601533.68	43601533.79	0.0088	0.0053
Mercury	114665-01-31 05:29 G	43601621.64	43601621.73	43601621.84	0.0088	0.0060

Venus	114665-04-17 01:53 G	43601697.47	43601697.58	43601697.74	0.0088	0.0070
Mercury	114665-04-29 06:41 G	43601709.71	43601709.78	43601709.88	0.0088	0.0067
Mercury	114665-07-26 08:22 G	43601797.78	43601797.85	43601797.93	0.0088	0.0073
Moon	114665-08-07 15:20 G	43601809.95	43601810.14	43601810.38	0.0088	0.0046
Earth	114665-08-07 17:58 G	43601810.05	43601810.25	43601810.49	0.0088	0.0046 *
Mercury	114665-10-22 09:34 G	43601885.86	43601885.90	43601885.97	0.0088	0.0080
Venus	114665-11-28 15:05 G	43601922.98	43601923.13	43601923.29	0.0088	0.0060
Mercury	114666-01-18 11:00 G	43601973.95	43601973.96	43601973.99	0.0088	0.0086
Venus	114666-07-12 03:48 G	43602148.49	43602148.66	43602148.85	0.0088	0.0051
Earth	114666-08-10 05:15 G	43602177.48	43602177.72	43602177.98	0.0088	0.0023
Moon	114666-08-10 06:27 G	43602177.53	43602177.77	43602178.04	0.0088	0.0023 *
Venus	114667-02-22 16:17 G	43602374.00	43602374.18	43602374.39	0.0088	0.0042
Earth	114667-08-12 16:32 G	43602544.94	43602545.19	43602545.45	0.0088	0.0002
Moon	114667-08-12 17:00 G	43602544.97	43602545.21	43602545.47	0.0088	0.0003 *
Venus	114667-10-06 05:29 G	43602599.53	43602599.73	43602599.94	0.0088	0.0032
Venus	114668-05-18 18:12 G	43602825.06	43602825.26	43602825.48	0.0088	0.0023
Moon	114668-08-14 02:08 G	43602912.34	43602912.59	43602912.86	0.0088	0.0022
Earth	114668-08-14 03:20 G	43602912.40	43602912.64	43602912.91	0.0088	0.0022 *
Venus	114668-12-30 07:10 G	43603050.58	43603050.80	43603051.02	0.0088	0.0014
Venus	114669-08-12 20:08 G	43603276.12	43603276.34	43603276.56	0.0088	0.0004
Earth	114669-08-16 14:36 G	43603279.90	43603280.11	43603280.34	0.0088	0.0044
Moon	114669-08-16 17:29 G	43603280.01	43603280.23	43603280.45	0.0088	0.0043 *
Venus	114670-03-26 08:51 G	43603501.65	43603501.87	43603502.09	0.0088	0.0005
Moon	114670-08-18 22:17 G	43603647.28	43603647.43	43603647.61	0.0088	0.0068
Earth	114670-08-19 02:08 G	43603647.43	43603647.59	43603647.76	0.0088	0.0066 *
Venus	114670-11-06 21:34 G	43603727.19	43603727.40	43603727.63	0.0088	0.0015
Venus	114671-06-20 10:46 G	43603952.74	43603952.95	43603953.16	0.0088	0.0024
Venus	114672-01-31 23:29 G	43604178.28	43604178.48	43604178.69	0.0088	0.0034
Venus	114672-09-13 12:27 G	43604403.84	43604404.02	43604404.22	0.0088	0.0043
Venus	114673-04-27 01:10 G	43604629.39	43604629.55	43604629.75	0.0088	0.0053



Venus	114673-12-08 14:22 G	43604854.96	43604855.10	43604855.27	0.0088	0.0062
Venus	114674-07-22 03:48 G	43605080.53	43605080.66	43605080.78	0.0088	0.0071
Venus	114675-03-04 16:17 G	43605306.11	43605306.18	43605306.28	0.0088	0.0081
Mars	114698-08-06 07:39 G	43613861.57	43613861.82	43613862.11	0.0088	0.0051
Mars	114700-07-02 23:29 G	43614557.28	43614557.48	43614557.75	0.0088	0.0063
Mercury	114744-03-06 05:15 G	43630509.68	43630509.72	43630509.81	0.0089	0.0084
Mercury	114744-06-02 09:05 G	43630597.78	43630597.88	43630597.98	0.0089	0.0074
Mercury	114744-08-29 11:58 G	43630685.88	43630686.00	43630686.13	0.0089	0.0065
Mercury	114744-11-25 15:05 G	43630774.00	43630774.13	43630774.28	0.0089	0.0056
Mercury	114745-02-21 18:12 G	43630862.12	43630862.26	43630862.43	0.0089	0.0047
Mercury	114745-05-20 21:20 G	43630950.24	43630950.39	43630950.57	0.0089	0.0038
Mercury	114745-08-17 00:41 G	43631038.36	43631038.53	43631038.71	0.0089	0.0028
Mercury	114745-11-13 04:03 G	43631126.49	43631126.67	43631126.85	0.0089	0.0019
Mercury	114746-02-09 07:10 G	43631214.62	43631214.80	43631214.99	0.0089	0.0010
Mercury	114746-05-08 10:32 G	43631302.75	43631302.94	43631303.12	0.0089	0.0000
Mercury	114746-08-04 13:39 G	43631390.89	43631391.07	43631391.26	0.0089	0.0010
Mercury	114746-10-31 16:46 G	43631479.03	43631479.20	43631479.39	0.0089	0.0019
Mercury	114747-01-27 20:08 G	43631567.17	43631567.34	43631567.52	0.0089	0.0028
Earth	114747-02-07 12:27 G	43631577.97	43631578.02	43631578.10	0.0089	0.0087
Moon	114747-02-07 15:20 G	43631578.14	43631578.14	43631578.18	0.0089	0.0089
Mercury	114747-04-25 23:29 G	43631655.32	43631655.48	43631655.65	0.0089	0.0038
Venus	114747-06-06 11:00 G	43631696.95	43631696.96	43631697.02	0.0089	0.0089
Mercury	114747-07-23 02:36 G	43631743.46	43631743.61	43631743.78	0.0089	0.0047
Mercury	114747-10-19 06:12 G	43631831.62	43631831.76	43631831.90	0.0089	0.0057
Mercury	114748-01-15 09:05 G	43631919.77	43631919.88	43631920.02	0.0089	0.0067
Venus	114748-01-18 00:27 G	43631922.44	43631922.52	43631922.64	0.0089	0.0079
Moon	114748-02-09 22:46 G	43631945.27	43631945.45	43631945.63	0.0089	0.0061
Earth	114748-02-10 00:41 G	43631945.37	43631945.53	43631945.73	0.0089	0.0063 *
Mercury	114748-04-12 12:56 G	43632007.94	43632008.04	43632008.13	0.0089	0.0076
Mercury	114748-07-09 15:48 G	43632096.12	43632096.16	43632096.23	0.0089	0.0086

Venus	114748-08-30 13:53 G	43632147.95	43632148.08	43632148.23	0.0089	0.0069
Earth	114749-02-11 12:41 G	43632312.82	43632313.03	43632313.28	0.0089	0.0040
Moon	114749-02-11 13:24 G	43632312.85	43632313.06	43632313.31	0.0089	0.0043 *
Venus	114749-04-13 03:20 G	43632373.48	43632373.64	43632373.81	0.0089	0.0059
Venus	114749-11-24 16:17 G	43632599.01	43632599.18	43632599.38	0.0089	0.0049
Earth	114750-02-14 01:10 G	43632680.30	43632680.55	43632680.81	0.0089	0.0017
Moon	114750-02-14 01:39 G	43632680.33	43632680.57	43632680.82	0.0089	0.0014 *
Venus	114750-07-08 05:29 G	43632824.55	43632824.73	43632824.94	0.0089	0.0040
Moon	114751-02-16 11:44 G	43633047.73	43633047.99	43633048.26	0.0089	0.0005
Earth	114751-02-16 13:24 G	43633047.81	43633048.06	43633048.32	0.0089	0.0007 *
Venus	114751-02-18 18:56 G	43633050.09	43633050.29	43633050.50	0.0089	0.0029
Venus	114751-10-02 08:08 G	43633275.63	43633275.84	43633276.06	0.0089	0.0019
Earth	114752-02-19 01:24 G	43633415.33	43633415.56	43633415.81	0.0089	0.0030
Moon	114752-02-19 04:32 G	43633415.46	43633415.69	43633415.93	0.0089	0.0034 *
Venus	114752-05-14 21:20 G	43633501.17	43633501.39	43633501.61	0.0089	0.0010
Venus	114752-12-26 10:32 G	43633726.73	43633726.94	43633727.16	0.0089	0.0002
Moon	114753-02-20 09:48 G	43633782.72	43633782.91	43633783.14	0.0089	0.0051
Earth	114753-02-20 13:24 G	43633782.87	43633783.06	43633783.28	0.0089	0.0054 *
Venus	114753-08-08 23:44 G	43633952.27	43633952.49	43633952.71	0.0089	0.0010
Earth	114754-02-23 01:24 G	43634150.44	43634150.56	43634150.70	0.0089	0.0077
Moon	114754-02-23 04:46 G	43634150.61	43634150.70	43634150.84	0.0089	0.0080 *
Venus	114754-03-22 12:27 G	43634177.82	43634178.02	43634178.25	0.0089	0.0021
Venus	114754-11-03 01:39 G	43634403.37	43634403.57	43634403.78	0.0089	0.0030
Venus	114755-06-16 14:36 G	43634628.93	43634629.11	43634629.32	0.0090	0.0040
Venus	114756-01-28 03:34 G	43634854.48	43634854.65	43634854.85	0.0090	0.0050
Venus	114756-09-09 16:46 G	43635080.04	43635080.20	43635080.37	0.0090	0.0059
Venus	114757-04-23 05:29 G	43635305.61	43635305.73	43635305.88	0.0090	0.0069
Venus	114757-12-04 18:27 G	43635531.19	43635531.27	43635531.39	0.0090	0.0079
Venus	114758-07-18 07:39 G	43635756.79	43635756.82	43635756.87	0.0090	0.0088
Mars	114780-07-11 01:39 G	43643785.33	43643785.57	43643785.86	0.0090	0.0040

Mars	114782-06-05 01:53 G	43644479.39	43644479.58	43644479.78	0.0090	0.0066
Jupiter	114801-11-15 08:22 G	43651582.34	43651582.85	43651583.37	0.0089	0.0004
Mercury	114824-07-09 20:22 G	43659855.34	43659855.35	43659855.37	0.0088	0.0088
Mercury	114824-10-05 21:48 G	43659943.36	43659943.41	43659943.47	0.0088	0.0081
Mercury	114825-01-01 23:29 G	43660031.41	43660031.48	43660031.56	0.0088	0.0074
Mercury	114825-03-31 00:41 G	43660119.45	43660119.53	43660119.63	0.0088	0.0067
Mercury	114825-06-27 02:22 G	43660207.51	43660207.60	43660207.71	0.0088	0.0060
Mercury	114825-09-23 03:48 G	43660295.56	43660295.66	43660295.78	0.0088	0.0053
Mercury	114825-12-20 05:29 G	43660383.62	43660383.73	43660383.85	0.0088	0.0046
Mercury	114826-03-18 06:56 G	43660471.67	43660471.79	43660471.92	0.0088	0.0039
Mercury	114826-06-14 08:22 G	43660559.73	43660559.85	43660559.99	0.0088	0.0033
Mercury	114826-09-10 10:03 G	43660647.79	43660647.92	43660648.05	0.0088	0.0026
Mercury	114826-12-07 11:29 G	43660735.85	43660735.98	43660736.12	0.0088	0.0019
Mercury	114827-03-05 12:56 G	43660823.91	43660824.04	43660824.18	0.0088	0.0012
Mercury	114827-06-01 14:22 G	43660911.96	43660912.10	43660912.24	0.0088	0.0005
Mercury	114827-08-28 15:48 G	43661000.03	43661000.16	43661000.30	0.0088	0.0003
Mercury	114827-11-24 17:15 G	43661088.09	43661088.22	43661088.36	0.0088	0.0009
Mercury	114828-02-20 18:41 G	43661176.15	43661176.28	43661176.42	0.0088	0.0015
Mercury	114828-05-18 20:08 G	43661264.21	43661264.34	43661264.48	0.0088	0.0022
Moon	114828-08-05 11:15 G	43661342.91	43661342.97	43661343.08	0.0088	0.0083
Earth	114828-08-05 12:56 G	43661342.95	43661343.04	43661343.18	0.0088	0.0078 *
Mercury	114828-08-14 21:34 G	43661352.27	43661352.40	43661352.53	0.0088	0.0029
Mercury	114828-11-10 23:00 G	43661440.34	43661440.46	43661440.59	0.0088	0.0035
Venus	114828-12-06 22:03 G	43661466.36	43661466.42	43661466.52	0.0088	0.0081
Mercury	114829-02-07 00:27 G	43661528.40	43661528.52	43661528.64	0.0088	0.0042
Mercury	114829-05-06 01:53 G	43661616.47	43661616.58	43661616.70	0.0088	0.0049
Venus	114829-07-20 10:46 G	43661691.85	43661691.95	43661692.10	0.0088	0.0072
Mercury	114829-08-02 03:20 G	43661704.54	43661704.64	43661704.75	0.0088	0.0055
Earth	114829-08-08 00:12 G	43661710.33	43661710.51	43661710.73	0.0088	0.0056
Moon	114829-08-08 01:24 G	43661710.35	43661710.56	43661710.78	0.0088	0.0051 *

Mercury	114829-10-29 04:32 G	43661792.61	43661792.69	43661792.80	0.0088	0.0062
Mercury	114830-01-25 06:12 G	43661880.68	43661880.76	43661880.85	0.0088	0.0068
Venus	114830-03-02 23:58 G	43661917.35	43661917.50	43661917.66	0.0088	0.0063
Mercury	114830-04-23 07:24 G	43661968.75	43661968.81	43661968.89	0.0088	0.0075
Mercury	114830-07-20 08:51 G	43662056.83	43662056.87	43662056.93	0.0088	0.0081
Earth	114830-08-10 11:44 G	43662077.76	43662077.99	43662078.24	0.0088	0.0033
Moon	114830-08-10 11:58 G	43662077.79	43662078.00	43662078.24	0.0088	0.0038 *
Venus	114830-10-14 12:27 G	43662142.86	43662143.02	43662143.21	0.0088	0.0054
Mercury	114830-10-16 10:17 G	43662144.93	43662144.93	43662144.94	0.0088	0.0088
Venus	114831-05-28 01:24 G	43662368.38	43662368.56	43662368.76	0.0088	0.0044
Moon	114831-08-12 20:22 G	43662445.09	43662445.35	43662445.63	0.0088	0.0007
Earth	114831-08-12 22:46 G	43662445.20	43662445.45	43662445.72	0.0088	0.0011 *
Venus	114832-01-08 14:36 G	43662593.90	43662594.11	43662594.31	0.0088	0.0034
Earth	114832-08-14 09:48 G	43662812.67	43662812.91	43662813.18	0.0088	0.0012
Moon	114832-08-14 12:56 G	43662812.79	43662813.04	43662813.29	0.0088	0.0007 *
Venus	114832-08-21 03:05 G	43662819.43	43662819.63	43662819.85	0.0088	0.0025
Venus	114833-04-03 15:48 G	43663044.95	43663045.16	43663045.39	0.0088	0.0016
Moon	114833-08-16 17:29 G	43663180.01	43663180.23	43663180.48	0.0088	0.0039
Earth	114833-08-16 21:05 G	43663180.15	43663180.38	43663180.63	0.0088	0.0034 *
Venus	114833-11-15 04:46 G	43663270.48	43663270.70	43663270.93	0.0088	0.0006
Venus	114834-06-28 17:44 G	43663496.02	43663496.24	43663496.46	0.0088	0.0003
Earth	114834-08-19 07:53 G	43663547.65	43663547.83	43663548.05	0.0088	0.0057
Moon	114834-08-19 11:29 G	43663547.79	43663547.98	43663548.21	0.0088	0.0052 *
Venus	114835-02-09 06:27 G	43663721.56	43663721.77	43663722.00	0.0088	0.0013
Moon	114835-08-21 16:17 G	43663915.12	43663915.18	43663915.28	0.0088	0.0083
Earth	114835-08-21 18:56 G	43663915.21	43663915.29	43663915.44	0.0088	0.0079 *
Venus	114835-09-22 19:24 G	43663947.10	43663947.31	43663947.53	0.0088	0.0022
Venus	114836-05-05 08:08 G	43664172.65	43664172.84	43664173.06	0.0088	0.0032
Venus	114836-12-16 21:05 G	43664398.20	43664398.38	43664398.59	0.0088	0.0041
Venus	114837-07-30 09:48 G	43664623.75	43664623.91	43664624.11	0.0088	0.0051

Venus	114838-03-12 23:00 G	43664849.31	43664849.46	43664849.63	0.0088	0.0060
Venus	114838-10-24 12:12 G	43665074.88	43665075.01	43665075.15	0.0088	0.0069
Venus	114839-06-07 00:56 G	43665300.47	43665300.54	43665300.66	0.0088	0.0079
Mars	114864-02-14 17:29 G	43674318.90	43674319.23	43674319.56	0.0088	0.0017
Mercury	114908-09-05 00:41 G	43690592.52	43690592.53	43690592.56	0.0089	0.0089
Mercury	114908-12-02 03:48 G	43690680.59	43690680.66	43690680.75	0.0089	0.0080
Mercury	114909-02-28 06:56 G	43690768.69	43690768.79	43690768.91	0.0089	0.0071
Mercury	114909-05-27 10:03 G	43690856.80	43690856.92	43690857.07	0.0089	0.0062
Mercury	114909-08-23 13:10 G	43690944.92	43690945.05	43690945.21	0.0089	0.0053
Mercury	114909-11-19 16:32 G	43691033.04	43691033.19	43691033.36	0.0089	0.0043
Mercury	114910-02-15 19:39 G	43691121.16	43691121.32	43691121.50	0.0089	0.0034
Mercury	114910-05-14 23:00 G	43691209.29	43691209.46	43691209.64	0.0089	0.0025
Mercury	114910-08-11 02:08 G	43691297.41	43691297.59	43691297.78	0.0089	0.0016
Mercury	114910-11-07 05:29 G	43691385.55	43691385.73	43691385.91	0.0089	0.0006
Mercury	114911-02-03 08:36 G	43691473.68	43691473.86	43691474.05	0.0089	0.0004
Mercury	114911-05-02 11:58 G	43691561.82	43691562.00	43691562.18	0.0089	0.0013
Mercury	114911-07-29 15:05 G	43691649.96	43691650.13	43691650.31	0.0089	0.0022
Mercury	114911-10-25 18:27 G	43691738.10	43691738.27	43691738.44	0.0089	0.0031
Mercury	114912-01-21 21:20 G	43691826.24	43691826.39	43691826.57	0.0089	0.0042
Earth	114912-02-10 07:53 G	43691845.71	43691845.83	43691845.99	0.0089	0.0074
Moon	114912-02-10 08:22 G	43691845.75	43691845.85	43691846.01	0.0089	0.0077 *
Mercury	114912-04-19 00:41 G	43691914.39	43691914.53	43691914.70	0.0089	0.0051
Venus	114912-04-21 09:48 G	43691916.84	43691916.91	43691917.03	0.0089	0.0080
Mercury	114912-07-16 03:48 G	43692002.54	43692002.66	43692002.82	0.0089	0.0061
Mercury	114912-10-12 07:24 G	43692090.70	43692090.81	43692090.93	0.0089	0.0069
Venus	114912-12-02 23:15 G	43692142.35	43692142.47	43692142.62	0.0089	0.0071
Mercury	114913-01-08 10:32 G	43692178.87	43692178.94	43692179.04	0.0089	0.0079
Earth	114913-02-11 19:53 G	43692213.14	43692213.33	43692213.56	0.0089	0.0051
Moon	114913-02-11 20:51 G	43692213.18	43692213.37	43692213.60	0.0089	0.0048 *
Mercury	114913-04-06 13:53 G	43692267.07	43692267.08	43692267.12	0.0089	0.0089

Venus	114913-07-16 12:41 G	43692367.88	43692368.03	43692368.20	0.0089	0.0061
Moon	114914-02-14 05:58 G	43692580.51	43692580.75	43692581.01	0.0089	0.0030
Earth	114914-02-14 08:08 G	43692580.61	43692580.84	43692581.10	0.0089	0.0028 *
Venus	114914-02-27 01:39 G	43692593.41	43692593.57	43692593.77	0.0089	0.0051
Venus	114914-10-10 14:51 G	43692818.94	43692819.12	43692819.33	0.0089	0.0042
Earth	114915-02-16 20:36 G	43692948.11	43692948.36	43692948.62	0.0089	0.0004
Moon	114915-02-16 23:29 G	43692948.23	43692948.48	43692948.73	0.0089	0.0001 *
Venus	114915-05-24 04:17 G	43693044.48	43693044.68	43693044.89	0.0089	0.0031
Venus	114916-01-04 17:44 G	43693270.03	43693270.24	43693270.46	0.0089	0.0021
Moon	114916-02-19 05:00 G	43693315.46	43693315.71	43693315.97	0.0089	0.0017
Earth	114916-02-19 08:36 G	43693315.62	43693315.86	43693316.12	0.0089	0.0020 *
Venus	114916-08-17 06:56 G	43693495.57	43693495.79	43693496.01	0.0089	0.0012
Earth	114917-02-20 20:36 G	43693683.15	43693683.36	43693683.60	0.0089	0.0044
Moon	114917-02-20 23:58 G	43693683.29	43693683.50	43693683.73	0.0089	0.0047 *
Venus	114917-03-30 20:08 G	43693721.12	43693721.34	43693721.56	0.0089	0.0002
Venus	114917-11-11 09:20 G	43693946.67	43693946.89	43693947.11	0.0089	0.0008
Moon	114918-02-23 05:29 G	43694050.58	43694050.73	43694050.93	0.0089	0.0064
Earth	114918-02-23 08:51 G	43694050.71	43694050.87	43694051.05	0.0089	0.0067 *
Venus	114918-06-24 22:17 G	43694172.22	43694172.43	43694172.65	0.0089	0.0018
Venus	114919-02-05 11:29 G	43694397.78	43694397.98	43694398.19	0.0089	0.0028
Venus	114919-09-19 00:27 G	43694623.33	43694623.52	43694623.73	0.0089	0.0038
Venus	114920-05-01 13:24 G	43694848.89	43694849.06	43694849.26	0.0089	0.0048
Venus	114920-12-13 02:22 G	43695074.45	43695074.60	43695074.79	0.0090	0.0058
Venus	114921-07-26 15:34 G	43695300.02	43695300.15	43695300.31	0.0090	0.0067
Venus	114922-03-09 04:17 G	43695525.59	43695525.68	43695525.81	0.0090	0.0077
Venus	114922-10-20 17:29 G	43695751.18	43695751.23	43695751.30	0.0090	0.0086
Mars	114944-02-25 03:05 G	43703548.56	43703548.63	43703548.77	0.0090	0.0084
Mars	114946-01-19 05:15 G	43704242.45	43704242.72	43704243.02	0.0090	0.0024
Jupiter	114968-01-13 19:10 G	43712271.83	43712272.30	43712272.83	0.0089	0.0024
Mercury	114989-04-06 19:24 G	43720026.29	43720026.31	43720026.36	0.0088	0.0086

Mercury	114989-07-03 21:05 G	43720114.32	43720114.38	43720114.45	0.0088	0.0078
Mercury	114989-09-29 22:32 G	43720202.37	43720202.44	43720202.53	0.0088	0.0072
Mercury	114989-12-27 00:12 G	43720290.42	43720290.51	43720290.61	0.0088	0.0065
Mercury	114990-03-25 01:53 G	43720378.47	43720378.58	43720378.68	0.0088	0.0058
Mercury	114990-06-21 03:05 G	43720466.53	43720466.63	43720466.75	0.0088	0.0051
Mercury	114990-09-17 04:32 G	43720554.58	43720554.69	43720554.82	0.0088	0.0044
Mercury	114990-12-14 06:12 G	43720642.64	43720642.76	43720642.89	0.0088	0.0037
Mercury	114991-03-12 07:39 G	43720730.70	43720730.82	43720730.96	0.0088	0.0030
Mercury	114991-06-08 09:20 G	43720818.75	43720818.89	43720819.02	0.0088	0.0023
Mercury	114991-09-04 10:46 G	43720906.81	43720906.95	43720907.09	0.0088	0.0017
Mercury	114991-12-01 12:12 G	43720994.87	43720995.01	43720995.15	0.0088	0.0010
Mercury	114992-02-27 13:39 G	43721082.93	43721083.07	43721083.21	0.0088	0.0003
Mercury	114992-05-25 15:05 G	43721171.00	43721171.13	43721171.27	0.0088	0.0004
Earth	114992-08-05 20:22 G	43721243.35	43721243.35	43721243.37	0.0088	0.0088
Mercury	114992-08-21 16:32 G	43721259.06	43721259.19	43721259.33	0.0088	0.0011
Mercury	114992-11-17 17:58 G	43721347.12	43721347.25	43721347.39	0.0088	0.0017
Mercury	114993-02-13 19:24 G	43721435.18	43721435.31	43721435.45	0.0088	0.0024
Venus	114993-03-11 07:24 G	43721460.76	43721460.81	43721460.90	0.0088	0.0083
Mercury	114993-05-12 20:51 G	43721523.25	43721523.37	43721523.50	0.0088	0.0031
Earth	114993-08-08 07:10 G	43721610.66	43721610.80	43721611.00	0.0088	0.0066
Moon	114993-08-08 08:36 G	43721610.71	43721610.86	43721611.04	0.0088	0.0064 *
Mercury	114993-08-08 22:17 G	43721611.31	43721611.43	43721611.56	0.0088	0.0037
Venus	114993-10-22 20:36 G	43721686.24	43721686.36	43721686.48	0.0088	0.0074
Mercury	114993-11-04 23:44 G	43721699.38	43721699.49	43721699.61	0.0088	0.0044
Mercury	114994-02-01 00:56 G	43721787.44	43721787.54	43721787.67	0.0088	0.0051
Mercury	114994-04-30 02:36 G	43721875.51	43721875.61	43721875.72	0.0088	0.0057
Venus	114994-06-05 09:20 G	43721911.75	43721911.89	43721912.05	0.0088	0.0064
Mercury	114994-07-27 03:48 G	43721963.58	43721963.66	43721963.77	0.0088	0.0064
Moon	114994-08-10 16:17 G	43721977.98	43721978.18	43721978.44	0.0088	0.0045
Earth	114994-08-10 18:41 G	43721978.07	43721978.28	43721978.52	0.0088	0.0043 *

Mercury	114994-10-23 05:29 G	43722051.65	43722051.73	43722051.81	0.0088	0.0070
Venus	114995-01-16 22:03 G	43722137.26	43722137.42	43722137.60	0.0088	0.0055
Mercury	114995-01-19 06:41 G	43722139.73	43722139.78	43722139.85	0.0088	0.0077
Mercury	114995-04-17 08:22 G	43722227.81	43722227.85	43722227.89	0.0088	0.0083
Earth	114995-08-13 05:58 G	43722345.51	43722345.75	43722346.01	0.0088	0.0021
Moon	114995-08-13 09:20 G	43722345.65	43722345.89	43722346.15	0.0088	0.0019 *
Venus	114995-08-30 10:46 G	43722362.78	43722362.95	43722363.15	0.0088	0.0046
Venus	114996-04-11 23:44 G	43722588.30	43722588.49	43722588.70	0.0088	0.0036
Moon	114996-08-14 13:53 G	43722712.82	43722713.08	43722713.34	0.0088	0.0001
Earth	114996-08-14 17:29 G	43722712.97	43722713.23	43722713.49	0.0088	0.0002 *
Venus	114996-11-23 12:27 G	43722813.82	43722814.02	43722814.24	0.0088	0.0027
Venus	114997-07-07 01:39 G	43723039.35	43723039.57	43723039.78	0.0088	0.0017
Earth	114997-08-17 04:32 G	43723080.44	43723080.69	43723080.94	0.0088	0.0024
Moon	114997-08-17 08:08 G	43723080.59	43723080.84	43723081.09	0.0088	0.0025 *
Venus	114998-02-17 14:22 G	43723264.88	43723265.10	43723265.32	0.0088	0.0008
Moon	114998-08-19 12:27 G	43723447.83	43723448.02	43723448.26	0.0088	0.0045
Earth	114998-08-19 15:20 G	43723447.94	43723448.14	43723448.38	0.0088	0.0047 *
Venus	114998-10-01 03:05 G	43723490.41	43723490.63	43723490.85	0.0088	0.0002
Venus	114999-05-14 16:03 G	43723715.95	43723716.17	43723716.39	0.0088	0.0011
Earth	114999-08-22 02:36 G	43723815.46	43723815.61	43723815.78	0.0088	0.0069
Moon	114999-08-22 03:48 G	43723815.53	43723815.66	43723815.85	0.0088	0.0071 *
Venus	114999-12-26 04:46 G	43723941.49	43723941.70	43723941.92	0.0088	0.0020
Venus	115000-08-08 17:29 G	43724167.03	43724167.23	43724167.45	0.0088	0.0030

# 116TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 116th millennium



CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	115001-03-22 06:27	G	43724392.58	43724392.77	43724392.97	0.0088	0.0039	
Venus	115001-11-02 18:56	G	43724618.13	43724618.29	43724618.50	0.0088	0.0049	
Venus	115002-06-16 08:08	G	43724843.69	43724843.84	43724844.02	0.0088	0.0058	
Venus	115003-01-27 21:20	G	43725069.25	43725069.39	43725069.54	0.0088	0.0067	
Venus	115003-09-10 09:48	G	43725294.83	43725294.91	43725295.04	0.0088	0.0077	
Venus	115004-04-22 22:46	G	43725520.43	43725520.45	43725520.52	0.0088	0.0086	
Mars	115027-09-30 14:36	G	43734080.80	43734081.11	43734081.43	0.0088	0.0027	
Mars	115029-08-26 04:17	G	43734776.67	43734776.68	43734776.78	0.0088	0.0087	
Mercury	115073-06-02 23:29	G	43750763.42	43750763.48	43750763.53	0.0089	0.0085	
Mercury	115073-08-30 02:36	G	43750851.51	43750851.61	43750851.70	0.0089	0.0076	
Mercury	115073-11-26 05:29	G	43750939.62	43750939.73	43750939.86	0.0089	0.0067	
Mercury	115074-02-22 08:36	G	43751027.73	43751027.86	43751028.01	0.0089	0.0058	
Mercury	115074-05-21 11:44	G	43751115.85	43751115.99	43751116.15	0.0089	0.0049	
Mercury	115074-08-17 14:51	G	43751203.97	43751204.12	43751204.30	0.0089	0.0040	
Mercury	115074-11-13 18:12	G	43751292.09	43751292.26	43751292.44	0.0089	0.0030	
Mercury	115075-02-09 21:20	G	43751380.22	43751380.39	43751380.57	0.0089	0.0021	
Mercury	115075-05-09 00:41	G	43751468.35	43751468.53	43751468.71	0.0089	0.0012	
Mercury	115075-08-05 03:48	G	43751556.48	43751556.66	43751556.85	0.0089	0.0003	
Mercury	115075-11-01 06:56	G	43751644.61	43751644.79	43751644.98	0.0089	0.0008	
Mercury	115076-01-28 10:17	G	43751732.75	43751732.93	43751733.11	0.0089	0.0016	
Earth	115076-02-10 15:34	G	43751746.08	43751746.15	43751746.26	0.0089	0.0084	
Moon	115076-02-10 16:32	G	43751746.15	43751746.19	43751746.26	0.0089	0.0087	*
Mercury	115076-04-25 13:24	G	43751820.89	43751821.06	43751821.24	0.0089	0.0026	
Mercury	115076-07-22 16:32	G	43751909.03	43751909.19	43751909.37	0.0089	0.0035	
Venus	115076-07-24 19:39	G	43751911.26	43751911.32	43751911.43	0.0089	0.0082	

Mercury	115076-10-18 19:53 G	43751997.18	43751997.33	43751997.50	0.0089	0.0044
Mercury	115077-01-14 23:00 G	43752085.32	43752085.46	43752085.62	0.0089	0.0054
Moon	115077-02-12 01:39 G	43752113.38	43752113.57	43752113.79	0.0089	0.0057
Earth	115077-02-12 03:48 G	43752113.49	43752113.66	43752113.87	0.0089	0.0061 *
Venus	115077-03-07 08:51 G	43752136.76	43752136.87	43752137.02	0.0089	0.0073
Mercury	115077-04-13 02:22 G	43752173.48	43752173.60	43752173.74	0.0089	0.0063
Mercury	115077-07-10 05:29 G	43752261.64	43752261.73	43752261.85	0.0089	0.0073
Mercury	115077-10-06 08:51 G	43752349.81	43752349.87	43752349.95	0.0089	0.0083
Venus	115077-10-18 22:17 G	43752362.29	43752362.43	43752362.60	0.0089	0.0063
Earth	115078-02-14 15:48 G	43752480.95	43752481.16	43752481.41	0.0089	0.0038
Moon	115078-02-14 18:56 G	43752481.09	43752481.29	43752481.54	0.0089	0.0042 *
Venus	115078-06-01 11:44 G	43752587.82	43752587.99	43752588.17	0.0089	0.0053
Venus	115079-01-13 00:41 G	43752813.35	43752813.53	43752813.74	0.0089	0.0043
Moon	115079-02-17 00:56 G	43752848.29	43752848.54	43752848.80	0.0089	0.0010
Earth	115079-02-17 04:17 G	43752848.43	43752848.68	43752848.94	0.0089	0.0014 *
Venus	115079-08-26 13:53 G	43753038.89	43753039.08	43753039.30	0.0089	0.0034
Earth	115080-02-19 16:17 G	43753215.93	43753216.18	43753216.44	0.0089	0.0010
Moon	115080-02-19 20:08 G	43753216.08	43753216.34	43753216.60	0.0089	0.0007 *
Venus	115080-04-08 03:05 G	43753264.43	43753264.63	43753264.85	0.0089	0.0024
Venus	115080-11-19 16:32 G	43753489.98	43753490.19	43753490.41	0.0089	0.0014
Moon	115081-02-21 01:24 G	43753583.35	43753583.56	43753583.81	0.0089	0.0038
Earth	115081-02-21 04:03 G	43753583.45	43753583.67	43753583.93	0.0089	0.0034 *
Venus	115081-07-03 05:44 G	43753715.52	43753715.74	43753715.96	0.0089	0.0004
Venus	115082-02-13 18:56 G	43753941.07	43753941.29	43753941.51	0.0089	0.0006
Earth	115082-02-23 16:17 G	43753950.99	43753951.18	43753951.39	0.0089	0.0057
Moon	115082-02-23 18:27 G	43753951.07	43753951.27	43753951.49	0.0089	0.0054 *
Venus	115082-09-27 07:53 G	43754166.62	43754166.83	43754167.05	0.0089	0.0016
Moon	115083-02-26 03:34 G	43754318.58	43754318.65	43754318.75	0.0089	0.0084
Earth	115083-02-26 04:32 G	43754318.59	43754318.69	43754318.81	0.0089	0.0080 *
Venus	115083-05-10 21:05 G	43754392.18	43754392.38	43754392.59	0.0089	0.0026

Venus	115083-12-22 10:17 G	43754617.74	43754617.93	43754618.14	0.0089	0.0036
Venus	115084-08-03 23:15 G	43754843.30	43754843.47	43754843.67	0.0089	0.0046
Venus	115085-03-17 12:12 G	43755068.86	43755069.01	43755069.20	0.0089	0.0056
Venus	115085-10-29 01:24 G	43755294.42	43755294.56	43755294.72	0.0089	0.0065
Venus	115086-06-11 14:22 G	43755520.00	43755520.10	43755520.23	0.0090	0.0075
Venus	115087-01-23 03:05 G	43755745.59	43755745.63	43755745.73	0.0090	0.0085
Mars	115109-09-05 07:24 G	43764005.53	43764005.81	43764006.11	0.0090	0.0019
Mars	115111-07-31 08:22 G	43764699.82	43764699.85	43764699.94	0.0090	0.0088
Jupiter	115134-03-09 15:20 G	43772956.78	43772957.14	43772957.61	0.0089	0.0053
Mercury	115154-01-03 18:41 G	43780197.25	43780197.28	43780197.34	0.0088	0.0083
Mercury	115154-04-01 20:22 G	43780285.29	43780285.35	43780285.43	0.0088	0.0076
Mercury	115154-06-28 21:48 G	43780373.34	43780373.41	43780373.51	0.0088	0.0069
Mercury	115154-09-24 23:29 G	43780461.39	43780461.48	43780461.58	0.0088	0.0062
Mercury	115154-12-22 00:56 G	43780549.44	43780549.54	43780549.65	0.0088	0.0055
Mercury	115155-03-20 02:36 G	43780637.49	43780637.61	43780637.73	0.0088	0.0048
Mercury	115155-06-16 04:03 G	43780725.55	43780725.67	43780725.80	0.0088	0.0042
Mercury	115155-09-12 05:29 G	43780813.61	43780813.73	43780813.86	0.0088	0.0035
Mercury	115155-12-09 06:56 G	43780901.67	43780901.79	43780901.93	0.0088	0.0028
Mercury	115156-03-06 08:36 G	43780989.72	43780989.86	43780989.99	0.0088	0.0021
Mercury	115156-06-02 10:03 G	43781077.78	43781077.92	43781078.06	0.0088	0.0014
Mercury	115156-08-29 11:29 G	43781165.84	43781165.98	43781166.12	0.0088	0.0008
Mercury	115156-11-25 12:56 G	43781253.90	43781254.04	43781254.18	0.0088	0.0002
Mercury	115157-02-21 14:22 G	43781341.97	43781342.10	43781342.24	0.0088	0.0006
Mercury	115157-05-20 15:48 G	43781430.03	43781430.16	43781430.30	0.0088	0.0013
Venus	115157-06-14 17:29 G	43781455.17	43781455.23	43781455.29	0.0088	0.0085
Moon	115157-08-09 12:56 G	43781510.93	43781511.04	43781511.16	0.0088	0.0080
Earth	115157-08-09 14:51 G	43781511.00	43781511.12	43781511.26	0.0088	0.0075 *
Mercury	115157-08-16 17:15 G	43781518.09	43781518.22	43781518.36	0.0088	0.0020
Mercury	115157-11-12 18:41 G	43781606.15	43781606.28	43781606.42	0.0088	0.0026
Venus	115158-01-26 05:58 G	43781680.65	43781680.75	43781680.87	0.0088	0.0075

Mercury	115158-02-08 20:08 G	43781694.22	43781694.34	43781694.47	0.0088	0.0033
Mercury	115158-05-07 21:34 G	43781782.28	43781782.40	43781782.53	0.0088	0.0040
Mercury	115158-08-03 23:00 G	43781870.35	43781870.46	43781870.58	0.0088	0.0046
Earth	115158-08-12 01:53 G	43781878.39	43781878.58	43781878.80	0.0088	0.0053
Moon	115158-08-12 04:46 G	43781878.49	43781878.70	43781878.91	0.0088	0.0049 *
Venus	115158-09-08 18:41 G	43781906.15	43781906.28	43781906.44	0.0088	0.0066
Mercury	115158-10-31 00:27 G	43781958.42	43781958.52	43781958.63	0.0088	0.0053
Mercury	115159-01-27 01:53 G	43782046.49	43782046.58	43782046.69	0.0088	0.0059
Venus	115159-04-22 07:24 G	43782131.66	43782131.81	43782131.99	0.0088	0.0057
Mercury	115159-04-25 03:20 G	43782134.56	43782134.64	43782134.73	0.0088	0.0066
Mercury	115159-07-22 04:32 G	43782222.63	43782222.69	43782222.78	0.0088	0.0073
Moon	115159-08-14 09:48 G	43782245.68	43782245.91	43782246.15	0.0088	0.0035
Earth	115159-08-14 13:39 G	43782245.83	43782246.07	43782246.31	0.0088	0.0030 *
Mercury	115159-10-18 06:12 G	43782310.71	43782310.76	43782310.82	0.0088	0.0079
Venus	115159-12-03 20:22 G	43782357.18	43782357.35	43782357.55	0.0088	0.0047
Mercury	115160-01-14 07:24 G	43782398.80	43782398.81	43782398.85	0.0088	0.0086
Venus	115160-07-16 09:05 G	43782582.70	43782582.88	43782583.09	0.0088	0.0038
Earth	115160-08-16 00:41 G	43782613.28	43782613.53	43782613.79	0.0088	0.0008
Moon	115160-08-16 04:17 G	43782613.42	43782613.68	43782613.94	0.0088	0.0003 *
Venus	115161-02-26 21:48 G	43782808.22	43782808.41	43782808.64	0.0088	0.0029
Moon	115161-08-18 08:51 G	43782980.62	43782980.87	43782981.13	0.0088	0.0010
Earth	115161-08-18 11:58 G	43782980.75	43782981.00	43782981.27	0.0088	0.0015 *
Venus	115161-10-10 11:00 G	43783033.75	43783033.96	43783034.18	0.0088	0.0019
Venus	115162-05-23 23:58 G	43783259.28	43783259.50	43783259.72	0.0088	0.0010
Earth	115162-08-20 23:00 G	43783348.24	43783348.46	43783348.71	0.0088	0.0037
Moon	115162-08-21 01:24 G	43783348.34	43783348.56	43783348.81	0.0088	0.0042 *
Venus	115163-01-04 12:56 G	43783484.82	43783485.04	43783485.26	0.0088	0.0001
Venus	115163-08-18 01:39 G	43783710.35	43783710.57	43783710.79	0.0088	0.0009
Moon	115163-08-23 09:20 G	43783715.72	43783715.89	43783716.11	0.0088	0.0056
Earth	115163-08-23 10:03 G	43783715.76	43783715.92	43783716.13	0.0088	0.0060 *

Venus	115164-03-30 14:22 G	43783935.89	43783936.10	43783936.32	0.0088	0.0019
Earth	115164-08-24 21:20 G	43784083.33	43784083.39	43784083.51	0.0088	0.0082
Moon	115164-08-24 21:20 G	43784083.36	43784083.39	43784083.46	0.0088	0.0086 *
Venus	115164-11-11 03:05 G	43784161.43	43784161.63	43784161.85	0.0088	0.0028
Venus	115165-06-24 16:03 G	43784386.98	43784387.17	43784387.38	0.0088	0.0038
Venus	115166-02-05 05:00 G	43784612.53	43784612.71	43784612.91	0.0088	0.0047
Venus	115166-09-18 17:58 G	43784838.09	43784838.25	43784838.43	0.0088	0.0056
Venus	115167-05-02 06:27 G	43785063.65	43785063.77	43785063.94	0.0088	0.0066
Venus	115167-12-13 19:24 G	43785289.22	43785289.31	43785289.45	0.0088	0.0075
Venus	115168-07-26 08:51 G	43785514.82	43785514.87	43785514.94	0.0088	0.0084
Mars	115191-05-15 12:56 G	43793842.88	43793843.04	43793843.27	0.0088	0.0071
Mars	115193-04-10 00:56 G	43794538.27	43794538.54	43794538.86	0.0088	0.0042
Mercury	115238-02-28 21:48 G	43810934.34	43810934.41	43810934.49	0.0089	0.0081
Mercury	115238-05-28 00:56 G	43811022.44	43811022.54	43811022.65	0.0089	0.0072
Mercury	115238-08-24 04:03 G	43811110.55	43811110.67	43811110.81	0.0089	0.0063
Mercury	115238-11-20 07:10 G	43811198.66	43811198.80	43811198.95	0.0089	0.0054
Mercury	115239-02-16 10:17 G	43811286.78	43811286.93	43811287.10	0.0089	0.0045
Mercury	115239-05-15 13:24 G	43811374.90	43811375.06	43811375.24	0.0089	0.0036
Mercury	115239-08-11 16:46 G	43811463.03	43811463.20	43811463.38	0.0089	0.0026
Mercury	115239-11-07 19:53 G	43811551.16	43811551.33	43811551.52	0.0089	0.0017
Mercury	115240-02-03 23:15 G	43811639.29	43811639.47	43811639.65	0.0089	0.0007
Moon	115240-02-10 23:29 G	43811646.48	43811646.48	43811646.50	0.0089	0.0089
Mercury	115240-05-02 02:22 G	43811727.42	43811727.60	43811727.79	0.0089	0.0002
Mercury	115240-07-29 05:29 G	43811815.55	43811815.73	43811815.92	0.0089	0.0012
Mercury	115240-10-25 08:51 G	43811903.69	43811903.87	43811904.05	0.0089	0.0020
Venus	115240-10-27 05:58 G	43811905.69	43811905.75	43811905.84	0.0089	0.0083
Mercury	115241-01-21 11:58 G	43811991.83	43811992.00	43811992.18	0.0089	0.0030
Earth	115241-02-12 12:12 G	43812013.88	43812014.01	43812014.20	0.0089	0.0070
Moon	115241-02-12 14:51 G	43812014.00	43812014.12	43812014.27	0.0089	0.0075 *
Mercury	115241-04-19 15:05 G	43812079.98	43812080.13	43812080.31	0.0089	0.0040

Venus	115241-06-09 19:24 G	43812131.20	43812131.31	43812131.44	0.0089	0.0074
Mercury	115241-07-16 18:27 G	43812168.12	43812168.27	43812168.43	0.0089	0.0049
Mercury	115241-10-12 21:34 G	43812256.27	43812256.40	43812256.55	0.0089	0.0058
Mercury	115242-01-09 00:56 G	43812344.43	43812344.54	43812344.67	0.0089	0.0068
Venus	115242-01-21 08:22 G	43812356.72	43812356.85	43812357.02	0.0089	0.0064
Moon	115242-02-14 21:34 G	43812381.17	43812381.40	43812381.63	0.0089	0.0043
Earth	115242-02-15 00:56 G	43812381.33	43812381.54	43812381.76	0.0089	0.0047 *
Mercury	115242-04-07 04:03 G	43812432.59	43812432.67	43812432.78	0.0089	0.0077
Mercury	115242-07-04 07:24 G	43812520.78	43812520.81	43812520.87	0.0089	0.0087
Venus	115242-09-03 21:34 G	43812582.25	43812582.40	43812582.59	0.0089	0.0055
Earth	115243-02-17 12:56 G	43812748.80	43812749.04	43812749.29	0.0089	0.0023
Moon	115243-02-17 16:17 G	43812748.94	43812749.18	43812749.43	0.0089	0.0028 *
Venus	115243-04-17 11:00 G	43812807.78	43812807.96	43812808.16	0.0089	0.0045
Venus	115243-11-29 00:27 G	43813033.32	43813033.52	43813033.73	0.0089	0.0035
Moon	115244-02-19 21:34 G	43813116.14	43813116.40	43813116.65	0.0089	0.0005
Earth	115244-02-20 01:10 G	43813116.29	43813116.55	43813116.80	0.0089	0.0001 *
Venus	115244-07-11 13:24 G	43813258.86	43813259.06	43813259.28	0.0089	0.0025
Earth	115245-02-21 12:56 G	43813483.80	43813484.04	43813484.30	0.0089	0.0024
Moon	115245-02-21 15:34 G	43813483.90	43813484.15	43813484.41	0.0089	0.0019 *
Venus	115245-02-22 02:36 G	43813484.40	43813484.61	43813484.84	0.0089	0.0016 *
Venus	115245-10-05 16:03 G	43813709.95	43813710.17	43813710.39	0.0089	0.0005
Moon	115246-02-23 23:00 G	43813851.28	43813851.46	43813851.68	0.0089	0.0051
Earth	115246-02-24 01:10 G	43813851.34	43813851.55	43813851.77	0.0089	0.0047 *
Venus	115246-05-19 05:00 G	43813935.50	43813935.71	43813935.93	0.0089	0.0005
Venus	115246-12-30 18:12 G	43814161.05	43814161.26	43814161.48	0.0089	0.0015
Earth	115247-02-26 12:41 G	43814218.89	43814219.03	43814219.21	0.0089	0.0071
Moon	115247-02-26 13:24 G	43814218.90	43814219.06	43814219.25	0.0089	0.0066 *
Venus	115247-08-13 07:10 G	43814386.60	43814386.80	43814387.03	0.0089	0.0025
Venus	115248-03-25 20:36 G	43814612.16	43814612.36	43814612.56	0.0089	0.0034
Venus	115248-11-06 09:34 G	43814837.72	43814837.90	43814838.10	0.0089	0.0044

Venus	115249-06-19 22:32 G	43815063.28	43815063.44	43815063.63	0.0089	0.0054
Venus	115250-01-31 11:29 G	43815288.85	43815288.98	43815289.15	0.0089	0.0064
Venus	115250-09-14 00:56 G	43815514.42	43815514.54	43815514.67	0.0090	0.0073
Venus	115251-04-27 13:39 G	43815740.01	43815740.07	43815740.17	0.0090	0.0083
Mars	115273-04-20 08:08 G	43823768.65	43823768.84	43823769.08	0.0090	0.0062
Mars	115275-03-15 12:12 G	43824462.76	43824463.01	43824463.27	0.0090	0.0046
Jupiter	115300-05-05 14:08 G	43833644.92	43833645.09	43833645.37	0.0089	0.0080
Mercury	115318-07-05 16:32 G	43840280.19	43840280.19	43840280.23	0.0088	0.0088
Mercury	115318-10-01 18:12 G	43840368.22	43840368.26	43840368.33	0.0088	0.0080
Mercury	115318-12-28 19:39 G	43840456.26	43840456.32	43840456.41	0.0088	0.0074
Mercury	115319-03-26 21:20 G	43840544.31	43840544.39	43840544.49	0.0088	0.0066
Mercury	115319-06-22 23:00 G	43840632.36	43840632.46	43840632.56	0.0088	0.0059
Mercury	115319-09-19 00:27 G	43840720.41	43840720.52	43840720.64	0.0088	0.0053
Mercury	115319-12-16 02:08 G	43840808.47	43840808.59	43840808.71	0.0088	0.0046
Mercury	115320-03-13 03:34 G	43840896.53	43840896.65	43840896.78	0.0088	0.0039
Mercury	115320-06-09 05:00 G	43840984.58	43840984.71	43840984.84	0.0088	0.0032
Mercury	115320-09-05 06:27 G	43841072.64	43841072.77	43841072.91	0.0088	0.0025
Mercury	115320-12-02 08:08 G	43841160.70	43841160.84	43841160.97	0.0088	0.0018
Mercury	115321-02-28 09:34 G	43841248.76	43841248.90	43841249.04	0.0088	0.0012
Mercury	115321-05-27 11:00 G	43841336.82	43841336.96	43841337.10	0.0088	0.0005
Earth	115321-08-09 22:46 G	43841411.42	43841411.45	43841411.55	0.0088	0.0086
Moon	115321-08-10 01:10 G	43841411.51	43841411.55	43841411.64	0.0088	0.0085 *
Mercury	115321-08-23 12:27 G	43841424.88	43841425.02	43841425.16	0.0088	0.0002
Venus	115321-09-17 03:05 G	43841449.61	43841449.63	43841449.70	0.0088	0.0087
Mercury	115321-11-19 13:53 G	43841512.94	43841513.08	43841513.22	0.0088	0.0009
Mercury	115322-02-15 15:20 G	43841601.01	43841601.14	43841601.28	0.0088	0.0016
Venus	115322-04-30 15:48 G	43841675.08	43841675.16	43841675.29	0.0088	0.0077
Mercury	115322-05-14 16:46 G	43841689.07	43841689.20	43841689.34	0.0088	0.0022
Mercury	115322-08-10 18:12 G	43841777.13	43841777.26	43841777.39	0.0088	0.0029
Moon	115322-08-12 07:24 G	43841778.64	43841778.81	43841779.01	0.0088	0.0063

Earth	115322-08-12 10:32 G	43841778.76	43841778.94	43841779.12	0.0088	0.0062	*
Mercury	115322-11-06 19:24 G	43841865.20	43841865.31	43841865.45	0.0088	0.0037	
Venus	115322-12-12 05:00 G	43841900.58	43841900.71	43841900.85	0.0088	0.0068	
Mercury	115323-02-02 21:05 G	43841953.26	43841953.38	43841953.50	0.0088	0.0042	
Mercury	115323-05-01 22:32 G	43842041.33	43842041.44	43842041.56	0.0088	0.0049	
Venus	115323-07-25 17:29 G	43842126.08	43842126.23	43842126.41	0.0088	0.0058	
Mercury	115323-07-28 23:58 G	43842129.40	43842129.50	43842129.61	0.0088	0.0055	
Earth	115323-08-14 21:20 G	43842146.17	43842146.39	43842146.63	0.0088	0.0040	
Moon	115323-08-15 01:10 G	43842146.33	43842146.55	43842146.78	0.0088	0.0039	*
Mercury	115323-10-25 01:24 G	43842217.47	43842217.56	43842217.66	0.0088	0.0062	
Mercury	115324-01-21 02:36 G	43842305.54	43842305.61	43842305.71	0.0088	0.0069	
Venus	115324-03-07 06:12 G	43842351.59	43842351.76	43842351.96	0.0088	0.0049	
Mercury	115324-04-18 04:17 G	43842393.61	43842393.68	43842393.75	0.0088	0.0075	
Mercury	115324-07-15 05:29 G	43842481.69	43842481.73	43842481.79	0.0088	0.0082	
Moon	115324-08-16 05:29 G	43842513.48	43842513.73	43842513.98	0.0088	0.0017	
Earth	115324-08-16 08:51 G	43842513.62	43842513.87	43842514.13	0.0088	0.0017	*
Venus	115324-10-18 18:56 G	43842577.11	43842577.29	43842577.50	0.0088	0.0040	
Venus	115325-06-01 08:08 G	43842802.64	43842802.84	43842803.05	0.0088	0.0030	
Earth	115325-08-18 19:53 G	43842881.08	43842881.33	43842881.59	0.0088	0.0005	
Moon	115325-08-18 23:15 G	43842881.21	43842881.47	43842881.73	0.0088	0.0006	*
Venus	115326-01-12 20:51 G	43843028.17	43843028.37	43843028.59	0.0088	0.0021	
Moon	115326-08-21 05:15 G	43843248.48	43843248.72	43843248.96	0.0088	0.0027	
Earth	115326-08-21 06:56 G	43843248.56	43843248.79	43843249.05	0.0088	0.0028	*
Venus	115326-08-26 09:48 G	43843253.69	43843253.91	43843254.13	0.0088	0.0011	
Venus	115327-04-08 22:46 G	43843479.22	43843479.45	43843479.67	0.0088	0.0002	
Earth	115327-08-23 18:27 G	43843616.07	43843616.27	43843616.49	0.0088	0.0050	
Moon	115327-08-23 18:56 G	43843616.08	43843616.29	43843616.52	0.0088	0.0050	*
Venus	115327-11-20 11:29 G	43843704.76	43843704.98	43843705.20	0.0088	0.0008	
Venus	115328-07-03 00:27 G	43843930.30	43843930.52	43843930.74	0.0088	0.0017	
Earth	115328-08-25 05:15 G	43843983.60	43843983.72	43843983.89	0.0088	0.0073	



Moon	115328-08-25 06:12 G	43843983.62	43843983.76	43843983.90	0.0088	0.0072	*
Venus	115329-02-13 13:24 G	43844155.85	43844156.06	43844156.27	0.0088	0.0026	
Venus	115329-09-27 01:53 G	43844381.39	43844381.58	43844381.79	0.0088	0.0036	
Venus	115330-05-10 14:51 G	43844606.94	43844607.12	43844607.32	0.0088	0.0045	
Venus	115330-12-22 03:34 G	43844832.49	43844832.65	43844832.84	0.0088	0.0055	
Venus	115331-08-04 16:32 G	43845058.05	43845058.19	43845058.36	0.0088	0.0064	
Venus	115332-03-17 05:29 G	43845283.62	43845283.73	43845283.86	0.0088	0.0073	
Venus	115332-10-28 17:58 G	43845509.21	43845509.25	43845509.35	0.0088	0.0083	
Mars	115356-11-23 01:24 G	43854300.23	43854300.56	43854300.89	0.0088	0.0001	
Mercury	115402-08-31 17:15 G	43871017.18	43871017.22	43871017.28	0.0089	0.0086	
Mercury	115402-11-27 20:22 G	43871105.27	43871105.35	43871105.45	0.0089	0.0077	
Mercury	115403-02-23 23:29 G	43871193.37	43871193.48	43871193.61	0.0089	0.0068	
Mercury	115403-05-23 02:36 G	43871281.48	43871281.61	43871281.76	0.0089	0.0059	
Mercury	115403-08-19 05:44 G	43871369.60	43871369.74	43871369.90	0.0089	0.0050	
Mercury	115403-11-15 08:51 G	43871457.72	43871457.87	43871458.04	0.0089	0.0041	
Mercury	115404-02-11 11:58 G	43871545.84	43871546.00	43871546.18	0.0089	0.0032	
Mercury	115404-05-09 15:20 G	43871633.97	43871634.14	43871634.32	0.0089	0.0022	
Mercury	115404-08-05 18:27 G	43871722.10	43871722.27	43871722.46	0.0089	0.0013	
Mercury	115404-11-01 21:48 G	43871810.23	43871810.41	43871810.59	0.0089	0.0003	
Mercury	115405-01-29 00:56 G	43871898.36	43871898.54	43871898.73	0.0089	0.0006	
Venus	115405-01-30 15:48 G	43871900.12	43871900.16	43871900.25	0.0089	0.0085	
Moon	115405-02-13 18:12 G	43871914.18	43871914.26	43871914.41	0.0089	0.0081	
Earth	115405-02-13 21:20 G	43871914.28	43871914.39	43871914.51	0.0089	0.0080	*
Mercury	115405-04-27 04:03 G	43871986.49	43871986.67	43871986.86	0.0089	0.0015	
Mercury	115405-07-24 07:24 G	43872074.63	43872074.81	43872074.99	0.0089	0.0025	
Venus	115405-09-13 05:15 G	43872125.62	43872125.72	43872125.86	0.0089	0.0076	
Mercury	115405-10-20 10:17 G	43872162.77	43872162.93	43872163.12	0.0089	0.0035	
Mercury	115406-01-16 13:39 G	43872250.92	43872251.07	43872251.24	0.0089	0.0044	
Earth	115406-02-16 09:20 G	43872281.70	43872281.89	43872282.10	0.0089	0.0056	
Moon	115406-02-16 12:41 G	43872281.85	43872282.03	43872282.25	0.0089	0.0056	*

Mercury	115406-04-14 17:15 G	43872339.07	43872339.22	43872339.36	0.0089	0.0053
Venus	115406-04-26 18:41 G	43872351.15	43872351.28	43872351.44	0.0089	0.0066
Mercury	115406-07-11 20:08 G	43872427.22	43872427.34	43872427.48	0.0089	0.0062
Mercury	115406-10-07 23:29 G	43872515.38	43872515.48	43872515.60	0.0089	0.0072
Venus	115406-12-08 08:22 G	43872576.68	43872576.85	43872577.02	0.0089	0.0056
Mercury	115407-01-04 02:36 G	43872603.55	43872603.61	43872603.70	0.0089	0.0081
Moon	115407-02-18 18:12 G	43872649.03	43872649.26	43872649.50	0.0089	0.0034
Earth	115407-02-18 21:20 G	43872649.17	43872649.39	43872649.65	0.0089	0.0033 *
Venus	115407-07-21 21:20 G	43872802.22	43872802.39	43872802.59	0.0089	0.0046
Earth	115408-02-21 09:48 G	43873016.66	43873016.91	43873017.17	0.0089	0.0010
Moon	115408-02-21 13:24 G	43873016.80	43873017.06	43873017.32	0.0089	0.0009 *
Venus	115408-03-03 10:32 G	43873027.75	43873027.94	43873028.15	0.0089	0.0037
Venus	115408-10-14 23:44 G	43873253.29	43873253.49	43873253.71	0.0089	0.0027
Moon	115409-02-22 19:39 G	43873384.07	43873384.32	43873384.57	0.0089	0.0013
Earth	115409-02-22 21:48 G	43873384.16	43873384.41	43873384.67	0.0089	0.0014 *
Venus	115409-05-28 13:10 G	43873478.83	43873479.05	43873479.27	0.0089	0.0017
Venus	115410-01-09 02:22 G	43873704.38	43873704.60	43873704.82	0.0089	0.0007
Earth	115410-02-25 09:34 G	43873751.68	43873751.90	43873752.15	0.0089	0.0038
Moon	115410-02-25 11:15 G	43873751.74	43873751.97	43873752.22	0.0089	0.0038 *
Venus	115410-08-22 15:34 G	43873929.93	43873930.15	43873930.37	0.0089	0.0003
Moon	115411-02-27 21:05 G	43874119.22	43874119.38	43874119.58	0.0089	0.0061
Earth	115411-02-27 21:34 G	43874119.23	43874119.40	43874119.61	0.0089	0.0061 *
Venus	115411-04-05 04:46 G	43874155.48	43874155.70	43874155.91	0.0089	0.0013
Venus	115411-11-16 17:44 G	43874381.04	43874381.24	43874381.46	0.0089	0.0023
Moon	115412-03-01 07:39 G	43874486.77	43874486.82	43874486.93	0.0089	0.0086
Earth	115412-03-01 10:03 G	43874486.83	43874486.92	43874487.00	0.0089	0.0084 *
Venus	115412-06-29 06:41 G	43874606.59	43874606.78	43874607.00	0.0089	0.0033
Venus	115413-02-09 19:53 G	43874832.15	43874832.33	43874832.53	0.0089	0.0042
Venus	115413-09-23 09:20 G	43875057.71	43875057.89	43875058.06	0.0089	0.0052
Venus	115414-05-06 22:03 G	43875283.28	43875283.42	43875283.59	0.0089	0.0062

Venus	115414-12-18 11:00 G	43875508.85	43875508.96	43875509.11	0.0089	0.0072
Venus	115415-08-01 00:27 G	43875734.44	43875734.52	43875734.62	0.0089	0.0081
Mars	115438-10-30 14:51 G	43884225.83	43884226.12	43884226.42	0.0090	0.0005
Mercury	115483-04-02 16:03 G	43900451.15	43900451.17	43900451.23	0.0088	0.0084
Mercury	115483-06-29 17:44 G	43900539.18	43900539.24	43900539.32	0.0088	0.0077
Mercury	115483-09-25 19:10 G	43900627.23	43900627.30	43900627.40	0.0088	0.0071
Mercury	115483-12-22 20:51 G	43900715.28	43900715.37	43900715.48	0.0088	0.0063
Mercury	115484-03-19 22:32 G	43900803.34	43900803.44	43900803.55	0.0088	0.0056
Mercury	115484-06-15 23:58 G	43900891.39	43900891.50	43900891.62	0.0088	0.0049
Mercury	115484-09-12 01:39 G	43900979.45	43900979.57	43900979.69	0.0088	0.0042
Mercury	115484-12-09 03:05 G	43901067.50	43901067.63	43901067.76	0.0088	0.0036
Mercury	115485-03-07 04:32 G	43901155.56	43901155.69	43901155.83	0.0088	0.0029
Mercury	115485-06-03 05:58 G	43901243.62	43901243.75	43901243.89	0.0088	0.0022
Mercury	115485-08-30 07:39 G	43901331.68	43901331.82	43901331.95	0.0088	0.0015
Mercury	115485-11-26 09:05 G	43901419.74	43901419.88	43901420.02	0.0088	0.0008
Venus	115485-12-20 13:53 G	43901444.07	43901444.08	43901444.13	0.0088	0.0087
Mercury	115486-02-22 10:32 G	43901507.80	43901507.94	43901508.08	0.0088	0.0002
Mercury	115486-05-21 11:58 G	43901595.86	43901596.00	43901596.14	0.0088	0.0005
Venus	115486-08-03 02:22 G	43901669.53	43901669.60	43901669.73	0.0088	0.0079
Earth	115486-08-12 18:41 G	43901679.17	43901679.28	43901679.46	0.0088	0.0072
Moon	115486-08-12 21:34 G	43901679.31	43901679.40	43901679.56	0.0088	0.0077 *
Mercury	115486-08-17 13:24 G	43901683.93	43901684.06	43901684.20	0.0088	0.0012
Mercury	115486-11-13 14:51 G	43901771.99	43901772.12	43901772.26	0.0088	0.0019
Mercury	115487-02-09 16:17 G	43901860.05	43901860.18	43901860.32	0.0088	0.0025
Venus	115487-03-16 15:05 G	43901895.02	43901895.13	43901895.29	0.0088	0.0069
Mercury	115487-05-08 17:44 G	43901948.12	43901948.24	43901948.37	0.0088	0.0032
Mercury	115487-08-04 19:10 G	43902036.18	43902036.30	43902036.43	0.0088	0.0039
Moon	115487-08-15 02:22 G	43902046.40	43902046.60	43902046.85	0.0088	0.0045
Earth	115487-08-15 06:27 G	43902046.57	43902046.77	43902046.99	0.0088	0.0049 *
Venus	115487-10-28 04:17 G	43902120.52	43902120.68	43902120.84	0.0088	0.0060

Mercury	115487-10-31 20:36 G	43902124.25	43902124.36	43902124.48	0.0088	0.0045
Mercury	115488-01-27 22:03 G	43902212.32	43902212.42	43902212.54	0.0088	0.0052
Mercury	115488-04-24 23:44 G	43902300.39	43902300.49	43902300.59	0.0088	0.0058
Venus	115488-06-09 16:46 G	43902346.03	43902346.20	43902346.39	0.0088	0.0051
Mercury	115488-07-22 00:56 G	43902388.46	43902388.54	43902388.64	0.0088	0.0065
Earth	115488-08-16 17:15 G	43902413.99	43902414.22	43902414.48	0.0088	0.0027
Moon	115488-08-16 20:51 G	43902414.13	43902414.37	43902414.62	0.0088	0.0031 *
Mercury	115488-10-18 02:08 G	43902476.53	43902476.59	43902476.68	0.0088	0.0072
Mercury	115489-01-14 03:48 G	43902564.61	43902564.66	43902564.73	0.0088	0.0078
Venus	115489-01-21 05:29 G	43902571.55	43902571.73	43902571.94	0.0088	0.0041
Mercury	115489-04-12 05:00 G	43902652.69	43902652.71	43902652.76	0.0088	0.0085
Moon	115489-08-19 01:53 G	43902781.33	43902781.58	43902781.84	0.0088	0.0001
Earth	115489-08-19 04:46 G	43902781.44	43902781.70	43902781.96	0.0088	0.0004 *
Venus	115489-09-03 18:12 G	43902797.07	43902797.26	43902797.48	0.0088	0.0032
Venus	115490-04-17 07:10 G	43903022.59	43903022.80	43903023.02	0.0088	0.0022
Earth	115490-08-21 15:48 G	43903148.92	43903149.16	43903149.43	0.0088	0.0019
Moon	115490-08-21 17:58 G	43903148.99	43903149.25	43903149.52	0.0088	0.0014 *
Venus	115490-11-28 20:08 G	43903248.12	43903248.34	43903248.56	0.0088	0.0013
Venus	115491-07-12 09:05 G	43903473.66	43903473.88	43903474.10	0.0088	0.0003
Moon	115491-08-24 03:05 G	43903516.42	43903516.63	43903516.85	0.0088	0.0045
Earth	115491-08-24 03:05 G	43903516.42	43903516.63	43903516.87	0.0088	0.0041 *
Venus	115492-02-22 21:48 G	43903699.19	43903699.41	43903699.64	0.0088	0.0007
Moon	115492-08-25 13:24 G	43903883.89	43903884.06	43903884.28	0.0088	0.0060
Earth	115492-08-25 14:08 G	43903883.94	43903884.09	43903884.30	0.0088	0.0064 *
Venus	115492-10-05 10:32 G	43903924.73	43903924.94	43903925.17	0.0088	0.0016
Venus	115493-05-18 23:44 G	43904150.28	43904150.49	43904150.70	0.0088	0.0025
Earth	115493-08-28 01:39 G	43904251.54	43904251.57	43904251.64	0.0088	0.0086
Venus	115493-12-30 12:12 G	43904375.82	43904376.01	43904376.23	0.0088	0.0035
Venus	115494-08-13 01:10 G	43904601.37	43904601.55	43904601.75	0.0088	0.0044
Venus	115495-03-26 14:08 G	43904826.92	43904827.09	43904827.27	0.0088	0.0053

Venus	115495-11-07 02:51 G	43905052.48	43905052.62	43905052.79	0.0088	0.0063
Venus	115496-06-19 15:48 G	43905278.05	43905278.16	43905278.30	0.0088	0.0072
Venus	115497-01-31 05:00 G	43905503.64	43905503.71	43905503.80	0.0088	0.0081
Mars	115520-07-09 01:53 G	43914062.32	43914062.58	43914062.89	0.0088	0.0045
Mars	115522-06-04 12:41 G	43914757.86	43914758.03	43914758.27	0.0088	0.0069
Mercury	115567-05-29 15:48 G	43931188.11	43931188.16	43931188.26	0.0089	0.0082
Mercury	115567-08-25 18:56 G	43931276.21	43931276.29	43931276.42	0.0089	0.0073
Mercury	115567-11-21 22:03 G	43931364.31	43931364.42	43931364.57	0.0089	0.0064
Mercury	115568-02-18 01:24 G	43931452.43	43931452.56	43931452.71	0.0089	0.0054
Mercury	115568-05-16 04:32 G	43931540.54	43931540.69	43931540.86	0.0089	0.0045
Mercury	115568-08-12 07:53 G	43931628.66	43931628.83	43931629.00	0.0089	0.0036
Mercury	115568-11-08 11:00 G	43931716.79	43931716.96	43931717.14	0.0089	0.0026
Mercury	115569-02-04 14:08 G	43931804.91	43931805.09	43931805.27	0.0089	0.0017
Moon	115569-02-14 09:05 G	43931814.81	43931814.88	43931814.96	0.0089	0.0085
Mercury	115569-05-03 17:15 G	43931893.04	43931893.22	43931893.41	0.0089	0.0009
Venus	115569-05-05 02:22 G	43931894.57	43931894.60	43931894.68	0.0089	0.0087
Mercury	115569-07-30 20:36 G	43931981.18	43931981.36	43931981.54	0.0089	0.0001
Mercury	115569-10-26 23:44 G	43932069.31	43932069.49	43932069.67	0.0089	0.0010
Venus	115569-12-16 16:03 G	43932120.07	43932120.17	43932120.30	0.0089	0.0077
Mercury	115570-01-23 02:51 G	43932157.45	43932157.62	43932157.80	0.0089	0.0020
Moon	115570-02-16 14:36 G	43932181.98	43932182.11	43932182.29	0.0089	0.0071
Earth	115570-02-16 18:12 G	43932182.11	43932182.26	43932182.46	0.0089	0.0066 *
Mercury	115570-04-21 05:58 G	43932245.58	43932245.75	43932245.93	0.0089	0.0029
Mercury	115570-07-18 09:20 G	43932333.73	43932333.89	43932334.06	0.0089	0.0039
Venus	115570-07-30 05:15 G	43932345.59	43932345.72	43932345.88	0.0089	0.0067
Mercury	115570-10-14 12:12 G	43932421.87	43932422.01	43932422.18	0.0089	0.0049
Mercury	115571-01-10 15:34 G	43932510.02	43932510.15	43932510.30	0.0089	0.0058
Earth	115571-02-19 06:56 G	43932549.57	43932549.79	43932550.02	0.0089	0.0043
Moon	115571-02-19 10:03 G	43932549.71	43932549.92	43932550.17	0.0089	0.0038 *
Venus	115571-03-12 18:41 G	43932571.12	43932571.28	43932571.46	0.0089	0.0057

Mercury	115571-04-08 19:10 G	43932598.18	43932598.30	43932598.42	0.0089	0.0067
Mercury	115571-07-05 22:03 G	43932686.34	43932686.42	43932686.53	0.0089	0.0077
Mercury	115571-10-02 01:39 G	43932774.53	43932774.57	43932774.62	0.0089	0.0086
Venus	115571-10-24 07:53 G	43932796.66	43932796.83	43932797.03	0.0089	0.0048
Moon	115572-02-21 16:03 G	43932916.92	43932917.17	43932917.41	0.0089	0.0024
Earth	115572-02-21 19:10 G	43932917.06	43932917.30	43932917.56	0.0089	0.0019 *
Venus	115572-06-05 21:20 G	43933022.20	43933022.39	43933022.60	0.0089	0.0038
Venus	115573-01-17 10:46 G	43933247.74	43933247.95	43933248.16	0.0089	0.0028
Earth	115573-02-23 07:24 G	43933284.55	43933284.81	43933285.06	0.0089	0.0005
Moon	115573-02-23 09:34 G	43933284.64	43933284.90	43933285.16	0.0089	0.0009 *
Venus	115573-08-30 23:44 G	43933473.29	43933473.49	43933473.72	0.0089	0.0018
Moon	115574-02-25 18:12 G	43933652.02	43933652.26	43933652.50	0.0089	0.0024
Earth	115574-02-25 18:56 G	43933652.07	43933652.29	43933652.55	0.0089	0.0029 *
Venus	115574-04-13 12:56 G	43933698.83	43933699.04	43933699.27	0.0089	0.0009
Venus	115574-11-25 02:22 G	43933924.38	43933924.60	43933924.82	0.0089	0.0002
Earth	115575-02-28 06:56 G	43934019.60	43934019.79	43934020.02	0.0089	0.0052
Moon	115575-02-28 07:24 G	43934019.61	43934019.81	43934020.02	0.0089	0.0056 *
Venus	115575-07-08 15:20 G	43934149.93	43934150.14	43934150.37	0.0089	0.0012
Venus	115576-02-19 04:17 G	43934375.48	43934375.68	43934375.91	0.0089	0.0022
Earth	115576-03-01 19:10 G	43934387.17	43934387.30	43934387.45	0.0089	0.0075
Moon	115576-03-01 20:22 G	43934387.23	43934387.35	43934387.53	0.0089	0.0071 *
Venus	115576-10-01 17:44 G	43934601.03	43934601.24	43934601.44	0.0089	0.0031
Venus	115577-05-15 06:41 G	43934826.59	43934826.78	43934826.98	0.0089	0.0041
Venus	115577-12-26 19:39 G	43935052.16	43935052.32	43935052.52	0.0089	0.0051
Venus	115578-08-09 08:36 G	43935277.72	43935277.86	43935278.04	0.0089	0.0061
Venus	115579-03-22 21:48 G	43935503.29	43935503.41	43935503.56	0.0089	0.0070
Venus	115579-11-03 10:46 G	43935728.87	43935728.95	43935729.07	0.0090	0.0080
Venus	115580-06-15 23:58 G	43935954.49	43935954.50	43935954.53	0.0090	0.0089
Mars	115602-06-15 17:29 G	43943988.97	43943989.23	43943989.51	0.0090	0.0037
Mars	115604-05-09 21:34 G	43944683.23	43944683.40	43944683.59	0.0090	0.0071

Mercury	115647-10-02 14:22 G	43960534.09	43960534.10	43960534.12	0.0088	0.0088
Mercury	115647-12-29 16:03 G	43960622.12	43960622.17	43960622.22	0.0088	0.0081
Mercury	115648-03-26 17:29 G	43960710.16	43960710.23	43960710.31	0.0088	0.0074
Mercury	115648-06-22 19:10 G	43960798.21	43960798.30	43960798.39	0.0088	0.0067
Mercury	115648-09-18 20:22 G	43960886.26	43960886.35	43960886.46	0.0088	0.0060
Mercury	115648-12-15 22:03 G	43960974.31	43960974.42	43960974.54	0.0088	0.0053
Mercury	115649-03-13 23:29 G	43961062.37	43961062.48	43961062.61	0.0088	0.0046
Mercury	115649-06-10 01:10 G	43961150.43	43961150.55	43961150.68	0.0088	0.0039
Mercury	115649-09-06 02:36 G	43961238.49	43961238.61	43961238.74	0.0088	0.0032
Mercury	115649-12-03 04:17 G	43961326.54	43961326.68	43961326.81	0.0088	0.0025
Mercury	115650-03-01 05:44 G	43961414.60	43961414.74	43961414.88	0.0088	0.0019
Mercury	115650-05-28 07:10 G	43961502.66	43961502.80	43961502.94	0.0088	0.0012
Moon	115650-08-13 01:39 G	43961579.46	43961579.57	43961579.70	0.0088	0.0078
Earth	115650-08-13 04:17 G	43961579.61	43961579.68	43961579.81	0.0088	0.0081 *
Mercury	115650-08-24 08:36 G	43961590.72	43961590.86	43961591.00	0.0088	0.0006
Venus	115650-11-05 13:24 G	43961663.98	43961664.06	43961664.17	0.0088	0.0079
Mercury	115650-11-20 10:03 G	43961678.79	43961678.92	43961679.06	0.0088	0.0003
Mercury	115651-02-16 11:29 G	43961766.85	43961766.98	43961767.12	0.0088	0.0009
Mercury	115651-05-15 13:10 G	43961854.91	43961855.05	43961855.18	0.0088	0.0015
Venus	115651-06-19 02:08 G	43961889.47	43961889.59	43961889.74	0.0088	0.0070
Mercury	115651-08-11 14:22 G	43961942.98	43961943.10	43961943.24	0.0088	0.0023
Earth	115651-08-15 15:20 G	43961946.97	43961947.14	43961947.35	0.0088	0.0059
Moon	115651-08-15 18:56 G	43961947.13	43961947.29	43961947.50	0.0088	0.0063 *
Mercury	115651-11-07 16:03 G	43962031.04	43962031.17	43962031.30	0.0088	0.0029
Venus	115652-01-30 14:36 G	43962114.97	43962115.11	43962115.29	0.0088	0.0061
Mercury	115652-02-03 17:29 G	43962119.10	43962119.23	43962119.36	0.0088	0.0035
Mercury	115652-05-01 18:41 G	43962207.17	43962207.28	43962207.41	0.0088	0.0042
Mercury	115652-07-28 20:22 G	43962295.24	43962295.35	43962295.47	0.0088	0.0048
Moon	115652-08-16 23:29 G	43962314.25	43962314.48	43962314.73	0.0088	0.0033
Earth	115652-08-17 02:36 G	43962314.39	43962314.61	43962314.86	0.0088	0.0036 *

Venus	115652-09-12 03:48 G	43962340.48	43962340.66	43962340.84	0.0088	0.0052
Mercury	115652-10-24 21:34 G	43962383.31	43962383.40	43962383.52	0.0088	0.0056
Mercury	115653-01-20 23:00 G	43962471.38	43962471.46	43962471.57	0.0088	0.0062
Mercury	115653-04-19 00:27 G	43962559.45	43962559.52	43962559.62	0.0088	0.0069
Venus	115653-04-25 16:17 G	43962565.99	43962566.18	43962566.38	0.0088	0.0042
Mercury	115653-07-16 01:53 G	43962647.52	43962647.58	43962647.66	0.0088	0.0075
Earth	115653-08-19 13:53 G	43962681.83	43962682.08	43962682.34	0.0088	0.0013
Moon	115653-08-19 16:17 G	43962681.94	43962682.18	43962682.46	0.0088	0.0017 *
Mercury	115653-10-12 03:20 G	43962735.60	43962735.64	43962735.70	0.0088	0.0082
Venus	115653-12-07 04:46 G	43962791.51	43962791.70	43962791.92	0.0088	0.0033
Mercury	115654-01-08 04:46 G	43962823.70	43962823.70	43962823.72	0.0088	0.0088
Venus	115654-07-20 17:58 G	43963017.04	43963017.25	43963017.46	0.0088	0.0023
Moon	115654-08-21 23:15 G	43963049.23	43963049.47	43963049.72	0.0088	0.0013
Earth	115654-08-22 01:10 G	43963049.29	43963049.55	43963049.80	0.0088	0.0009 *
Venus	115655-03-03 06:27 G	43963242.56	43963242.77	43963243.00	0.0088	0.0014
Moon	115655-08-24 11:58 G	43963416.75	43963417.00	43963417.26	0.0088	0.0029
Earth	115655-08-24 11:58 G	43963416.77	43963417.00	43963417.25	0.0088	0.0032 *
Venus	115655-10-14 19:24 G	43963468.09	43963468.31	43963468.53	0.0088	0.0005
Venus	115656-05-27 08:22 G	43963693.63	43963693.85	43963694.07	0.0088	0.0005
Earth	115656-08-25 22:46 G	43963784.27	43963784.45	43963784.68	0.0088	0.0055
Moon	115656-08-26 00:27 G	43963784.33	43963784.52	43963784.71	0.0088	0.0057 *
Venus	115657-01-07 21:05 G	43963919.17	43963919.38	43963919.60	0.0088	0.0014
Venus	115657-08-21 09:48 G	43964144.71	43964144.91	43964145.13	0.0088	0.0024
Moon	115657-08-28 07:53 G	43964151.71	43964151.83	43964152.00	0.0088	0.0074
Earth	115657-08-28 10:32 G	43964151.83	43964151.94	43964152.08	0.0088	0.0077 *
Venus	115658-04-03 22:46 G	43964370.25	43964370.45	43964370.66	0.0088	0.0033
Venus	115658-11-15 11:15 G	43964595.80	43964595.97	43964596.18	0.0088	0.0043
Venus	115659-06-29 00:27 G	43964821.36	43964821.52	43964821.71	0.0088	0.0052
Venus	115660-02-09 13:39 G	43965046.92	43965047.07	43965047.23	0.0088	0.0061
Venus	115660-09-22 02:08 G	43965272.48	43965272.59	43965272.74	0.0088	0.0071



Venus	115661-05-05 15:05 G	43965498.06	43965498.13	43965498.24	0.0088	0.0080
Mars	115684-02-21 06:56 G	43973824.73	43973824.79	43973824.85	0.0088	0.0086
Mars	115686-01-16 14:22 G	43974519.80	43974520.10	43974520.43	0.0088	0.0026
Jupiter	115709-05-14 03:20 G	43983037.28	43983037.64	43983038.06	0.0088	0.0065
Mercury	115731-11-28 11:44 G	43991270.96	43991270.99	43991271.06	0.0089	0.0086
Mercury	115732-02-24 14:51 G	43991359.04	43991359.12	43991359.23	0.0089	0.0077
Mercury	115732-05-22 17:58 G	43991447.15	43991447.25	43991447.38	0.0089	0.0068
Mercury	115732-08-18 21:05 G	43991535.26	43991535.38	43991535.53	0.0089	0.0059
Mercury	115732-11-15 00:12 G	43991623.37	43991623.51	43991623.67	0.0089	0.0050
Mercury	115733-02-11 03:20 G	43991711.49	43991711.64	43991711.81	0.0089	0.0040
Mercury	115733-05-10 06:27 G	43991799.61	43991799.77	43991799.95	0.0089	0.0031
Mercury	115733-08-06 09:34 G	43991887.74	43991887.90	43991888.09	0.0089	0.0023
Venus	115733-08-07 13:10 G	43991889.02	43991889.05	43991889.10	0.0089	0.0088
Mercury	115733-11-02 12:56 G	43991975.86	43991976.04	43991976.22	0.0089	0.0013
Mercury	115734-01-29 16:03 G	43992063.99	43992064.17	43992064.36	0.0089	0.0004
Earth	115734-02-17 03:34 G	43992082.53	43992082.65	43992082.80	0.0089	0.0075
Moon	115734-02-17 07:10 G	43992082.67	43992082.80	43992082.96	0.0089	0.0074 *
Venus	115734-03-21 02:08 G	43992114.51	43992114.59	43992114.72	0.0089	0.0079
Mercury	115734-04-27 19:10 G	43992152.12	43992152.30	43992152.49	0.0089	0.0006
Mercury	115734-07-24 22:32 G	43992240.26	43992240.44	43992240.62	0.0089	0.0015
Mercury	115734-10-21 01:39 G	43992328.40	43992328.57	43992328.75	0.0089	0.0024
Venus	115734-11-01 15:48 G	43992340.03	43992340.16	43992340.31	0.0089	0.0068
Mercury	115735-01-17 05:00 G	43992416.54	43992416.71	43992416.88	0.0089	0.0034
Moon	115735-02-19 12:27 G	43992449.84	43992450.02	43992450.24	0.0089	0.0054
Earth	115735-02-19 15:48 G	43992449.97	43992450.16	43992450.39	0.0089	0.0052 *
Mercury	115735-04-15 07:53 G	43992504.68	43992504.83	43992505.00	0.0089	0.0043
Venus	115735-06-15 05:15 G	43992565.57	43992565.72	43992565.90	0.0089	0.0059
Mercury	115735-07-12 11:15 G	43992592.83	43992592.97	43992593.12	0.0089	0.0052
Mercury	115735-10-08 14:08 G	43992680.98	43992681.09	43992681.24	0.0089	0.0063
Mercury	115736-01-04 17:44 G	43992769.14	43992769.24	43992769.36	0.0089	0.0071

Venus	115736-01-26 18:41 G	43992791.10	43992791.28	43992791.47	0.0089	0.0049
Earth	115736-02-22 04:17 G	43992817.45	43992817.68	43992817.94	0.0089	0.0029
Moon	115736-02-22 07:39 G	43992817.58	43992817.82	43992818.08	0.0089	0.0026 *
Mercury	115736-04-01 20:36 G	43992857.31	43992857.36	43992857.46	0.0089	0.0082
Venus	115736-09-08 07:53 G	43993016.64	43993016.83	43993017.04	0.0089	0.0039
Moon	115737-02-23 14:51 G	43993184.88	43993185.12	43993185.37	0.0089	0.0007
Earth	115737-02-23 16:46 G	43993184.95	43993185.20	43993185.46	0.0089	0.0005 *
Venus	115737-04-21 21:05 G	43993242.19	43993242.38	43993242.60	0.0089	0.0030
Venus	115737-12-03 10:46 G	43993467.74	43993467.95	43993468.17	0.0089	0.0019
Earth	115738-02-26 04:46 G	43993552.46	43993552.70	43993552.96	0.0089	0.0019
Moon	115738-02-26 05:44 G	43993552.48	43993552.74	43993553.00	0.0089	0.0021 *
Venus	115738-07-16 23:58 G	43993693.29	43993693.50	43993693.72	0.0089	0.0010
Venus	115739-02-27 13:10 G	43993918.83	43993919.05	43993919.27	0.0089	0.0002
Earth	115739-02-28 16:46 G	43993919.99	43993920.20	43993920.44	0.0089	0.0042
Moon	115739-02-28 17:15 G	43993920.00	43993920.22	43993920.45	0.0089	0.0040 *
Venus	115739-10-11 02:22 G	43994144.38	43994144.60	43994144.82	0.0089	0.0010
Moon	115740-03-02 02:36 G	43994287.46	43994287.61	43994287.81	0.0089	0.0068
Earth	115740-03-02 04:46 G	43994287.55	43994287.70	43994287.89	0.0089	0.0066 *
Venus	115740-05-23 15:20 G	43994369.94	43994370.14	43994370.36	0.0089	0.0020
Venus	115741-01-04 04:46 G	43994595.50	43994595.70	43994595.91	0.0089	0.0030
Earth	115741-03-04 16:46 G	43994655.19	43994655.20	43994655.24	0.0089	0.0089
Moon	115741-03-04 19:10 G	43994655.28	43994655.30	43994655.38	0.0089	0.0088
Venus	115741-08-17 17:44 G	43994821.05	43994821.24	43994821.45	0.0089	0.0040
Venus	115742-03-31 06:41 G	43995046.61	43995046.78	43995046.98	0.0089	0.0049
Venus	115742-11-11 19:53 G	43995272.18	43995272.33	43995272.50	0.0089	0.0059
Venus	115743-06-25 08:51 G	43995497.75	43995497.87	43995498.02	0.0089	0.0069
Venus	115744-02-05 21:48 G	43995723.33	43995723.41	43995723.54	0.0090	0.0079
Venus	115744-09-18 11:00 G	43995948.94	43995948.96	43995949.02	0.0090	0.0088
Mars	115766-01-29 18:12 G	44003752.14	44003752.26	44003752.43	0.0090	0.0079
Mars	115767-12-25 01:10 G	44004446.27	44004446.55	44004446.84	0.0090	0.0030

Mercury	115812-06-30 13:53 G	44020705.05	44020705.08	44020705.13	0.0088	0.0084
Mercury	115812-09-26 15:20 G	44020793.09	44020793.14	44020793.22	0.0088	0.0078
Mercury	115812-12-23 17:00 G	44020881.14	44020881.21	44020881.30	0.0088	0.0070
Mercury	115813-03-21 18:27 G	44020969.19	44020969.27	44020969.38	0.0088	0.0064
Mercury	115813-06-17 20:08 G	44021057.24	44021057.34	44021057.46	0.0088	0.0056
Mercury	115813-09-13 21:48 G	44021145.30	44021145.41	44021145.53	0.0088	0.0049
Mercury	115813-12-10 23:15 G	44021233.35	44021233.47	44021233.60	0.0088	0.0043
Mercury	115814-03-09 00:56 G	44021321.41	44021321.54	44021321.67	0.0088	0.0035
Mercury	115814-06-05 02:22 G	44021409.47	44021409.60	44021409.73	0.0088	0.0029
Moon	115814-08-14 17:44 G	44021480.23	44021480.24	44021480.28	0.0088	0.0088
Mercury	115814-09-01 03:48 G	44021497.53	44021497.66	44021497.80	0.0088	0.0022
Mercury	115814-11-28 05:29 G	44021585.59	44021585.73	44021585.87	0.0088	0.0015
Venus	115815-02-09 00:41 G	44021658.46	44021658.53	44021658.63	0.0088	0.0080
Mercury	115815-02-24 06:56 G	44021673.65	44021673.79	44021673.93	0.0088	0.0008
Mercury	115815-05-23 08:22 G	44021761.71	44021761.85	44021761.99	0.0088	0.0002
Moon	115815-08-16 21:48 G	44021847.27	44021847.41	44021847.59	0.0088	0.0070
Earth	115815-08-17 01:24 G	44021847.42	44021847.56	44021847.75	0.0088	0.0067 *
Mercury	115815-08-19 09:48 G	44021849.78	44021849.91	44021850.05	0.0088	0.0006
Venus	115815-09-22 13:10 G	44021883.94	44021884.05	44021884.20	0.0088	0.0071
Mercury	115815-11-15 11:29 G	44021937.84	44021937.98	44021938.11	0.0088	0.0012
Mercury	115816-02-11 12:41 G	44022025.90	44022026.03	44022026.17	0.0088	0.0019
Venus	115816-05-05 02:22 G	44022109.44	44022109.60	44022109.76	0.0088	0.0062
Mercury	115816-05-09 14:22 G	44022113.97	44022114.10	44022114.23	0.0088	0.0026
Mercury	115816-08-05 15:48 G	44022202.03	44022202.16	44022202.29	0.0088	0.0032
Earth	115816-08-18 12:56 G	44022214.82	44022215.04	44022215.26	0.0088	0.0045
Moon	115816-08-18 15:34 G	44022214.94	44022215.15	44022215.40	0.0088	0.0042 *
Mercury	115816-11-01 17:00 G	44022290.10	44022290.21	44022290.35	0.0088	0.0040
Venus	115816-12-16 14:51 G	44022334.95	44022335.12	44022335.30	0.0088	0.0052
Mercury	115817-01-28 18:41 G	44022378.16	44022378.28	44022378.40	0.0088	0.0046
Mercury	115817-04-26 20:08 G	44022466.23	44022466.34	44022466.45	0.0088	0.0052

Mercury	115817-07-23 21:20 G	44022554.30	44022554.39	44022554.50	0.0088	0.0059
Venus	115817-07-30 03:20 G	44022560.46	44022560.64	44022560.85	0.0088	0.0043
Moon	115817-08-20 21:20 G	44022582.16	44022582.39	44022582.65	0.0088	0.0024
Earth	115817-08-20 23:44 G	44022582.25	44022582.49	44022582.75	0.0088	0.0022 *
Mercury	115817-10-19 23:00 G	44022642.37	44022642.46	44022642.55	0.0088	0.0065
Mercury	115818-01-16 00:12 G	44022730.45	44022730.51	44022730.60	0.0088	0.0072
Venus	115818-03-12 16:03 G	44022785.98	44022786.17	44022786.39	0.0088	0.0034
Mercury	115818-04-14 01:53 G	44022818.52	44022818.58	44022818.64	0.0088	0.0078
Mercury	115818-07-11 03:05 G	44022906.61	44022906.63	44022906.67	0.0088	0.0085
Earth	115818-08-23 11:00 G	44022949.70	44022949.96	44022950.22	0.0088	0.0001
Moon	115818-08-23 12:27 G	44022949.76	44022950.02	44022950.29	0.0088	0.0003 *
Venus	115818-10-24 05:00 G	44023011.50	44023011.71	44023011.92	0.0088	0.0024
Venus	115819-06-06 17:44 G	44023237.03	44023237.24	44023237.46	0.0088	0.0015
Earth	115819-08-25 21:48 G	44023317.17	44023317.41	44023317.67	0.0088	0.0023
Moon	115819-08-25 22:32 G	44023317.19	44023317.44	44023317.68	0.0088	0.0020 *
Venus	115820-01-18 06:27 G	44023462.56	44023462.77	44023463.00	0.0088	0.0006
Moon	115820-08-27 07:24 G	44023684.60	44023684.81	44023685.05	0.0088	0.0048
Earth	115820-08-27 08:36 G	44023684.66	44023684.86	44023685.11	0.0088	0.0046 *
Venus	115820-08-30 19:10 G	44023688.09	44023688.30	44023688.53	0.0088	0.0004
Venus	115821-04-13 07:53 G	44023913.62	44023913.83	44023914.05	0.0088	0.0013
Earth	115821-08-29 20:08 G	44024052.19	44024052.34	44024052.51	0.0088	0.0068
Moon	115821-08-29 22:32 G	44024052.29	44024052.44	44024052.62	0.0088	0.0066 *
Venus	115821-11-24 20:36 G	44024139.16	44024139.36	44024139.58	0.0088	0.0023
Venus	115822-07-08 09:34 G	44024364.70	44024364.90	44024365.12	0.0088	0.0032
Venus	115823-02-18 22:32 G	44024590.25	44024590.44	44024590.64	0.0088	0.0041
Venus	115823-10-02 11:00 G	44024815.80	44024815.96	44024816.16	0.0088	0.0051
Venus	115824-05-15 00:12 G	44025041.36	44025041.51	44025041.68	0.0088	0.0060
Venus	115824-12-26 13:24 G	44025266.92	44025267.06	44025267.19	0.0088	0.0069
Venus	115825-08-09 01:53 G	44025492.50	44025492.58	44025492.69	0.0088	0.0079
Mars	115849-09-01 20:08 G	44034282.03	44034282.34	44034282.68	0.0088	0.0017

Jupiter	115875-07-20 17:58 G	44043734.75	44043735.25	44043735.80	0.0088	0.0037
Mercury	115896-05-29 07:53 G	44051353.83	44051353.83	44051353.84	0.0089	0.0089
Mercury	115896-08-25 10:46 G	44051441.89	44051441.95	44051442.04	0.0089	0.0081
Mercury	115896-11-21 13:53 G	44051529.99	44051530.08	44051530.20	0.0089	0.0072
Mercury	115897-02-17 17:00 G	44051618.09	44051618.21	44051618.35	0.0089	0.0063
Mercury	115897-05-16 20:08 G	44051706.20	44051706.34	44051706.49	0.0089	0.0054
Mercury	115897-08-12 23:15 G	44051794.32	44051794.47	44051794.63	0.0089	0.0044
Mercury	115897-11-09 02:22 G	44051882.44	44051882.60	44051882.77	0.0089	0.0035
Venus	115897-11-09 23:44 G	44051883.49	44051883.49	44051883.52	0.0089	0.0089
Mercury	115898-02-05 05:29 G	44051970.56	44051970.73	44051970.91	0.0089	0.0026
Moon	115898-02-17 08:51 G	44051982.80	44051982.87	44051983.01	0.0089	0.0082
Earth	115898-02-17 13:24 G	44051982.98	44051983.06	44051983.14	0.0089	0.0085 *
Mercury	115898-05-04 08:36 G	44052058.69	44052058.86	44052059.04	0.0089	0.0017
Venus	115898-06-23 12:56 G	44052108.96	44052109.04	44052109.16	0.0089	0.0080
Mercury	115898-07-31 11:44 G	44052146.81	44052146.99	44052147.18	0.0089	0.0008
Mercury	115898-10-27 15:05 G	44052234.95	44052235.13	44052235.31	0.0089	0.0002
Mercury	115899-01-23 18:12 G	44052323.08	44052323.26	44052323.44	0.0089	0.0010
Venus	115899-02-04 02:36 G	44052334.48	44052334.61	44052334.76	0.0089	0.0070
Earth	115899-02-20 01:10 G	44052350.38	44052350.55	44052350.76	0.0089	0.0062
Moon	115899-02-20 04:46 G	44052350.53	44052350.70	44052350.89	0.0089	0.0065 *
Mercury	115899-04-21 21:05 G	44052411.21	44052411.38	44052411.57	0.0089	0.0021
Mercury	115899-07-19 00:27 G	44052499.35	44052499.52	44052499.70	0.0089	0.0029
Venus	115899-09-17 15:34 G	44052560.01	44052560.15	44052560.34	0.0089	0.0060
Mercury	115899-10-15 03:34 G	44052587.49	44052587.65	44052587.82	0.0089	0.0039
Mercury	115900-01-11 06:41 G	44052675.64	44052675.78	44052675.95	0.0089	0.0048
Moon	115900-02-22 10:32 G	44052717.73	44052717.94	44052718.19	0.0089	0.0036
Earth	115900-02-22 13:39 G	44052717.85	44052718.07	44052718.32	0.0089	0.0038 *
Mercury	115900-04-09 09:48 G	44052763.79	44052763.91	44052764.07	0.0089	0.0058
Venus	115900-05-01 05:00 G	44052785.55	44052785.71	44052785.91	0.0089	0.0051
Mercury	115900-07-06 13:24 G	44052851.94	44052852.06	44052852.19	0.0089	0.0067

Mercury	115900-10-02 16:17 G	44052940.10	44052940.18	44052940.29	0.0089	0.0076
Venus	115900-12-12 18:41 G	44053011.09	44053011.28	44053011.49	0.0089	0.0040
Mercury	115900-12-29 19:39 G	44053028.29	44053028.32	44053028.39	0.0089	0.0086
Earth	115901-02-25 01:53 G	44053085.34	44053085.58	44053085.84	0.0089	0.0015
Moon	115901-02-25 03:34 G	44053085.41	44053085.65	44053085.93	0.0089	0.0019 *
Venus	115901-07-26 08:08 G	44053236.64	44053236.84	44053237.05	0.0089	0.0031
Moon	115902-02-27 14:08 G	44053452.84	44053453.09	44053453.34	0.0089	0.0012
Earth	115902-02-27 14:22 G	44053452.85	44053453.10	44053453.36	0.0089	0.0009 *
Venus	115902-03-08 21:34 G	44053462.18	44053462.40	44053462.61	0.0089	0.0021
Venus	115902-10-20 10:46 G	44053687.73	44053687.95	44053688.17	0.0089	0.0011
Moon	115903-03-02 02:08 G	44053820.34	44053820.59	44053820.85	0.0089	0.0030
Earth	115903-03-02 02:51 G	44053820.38	44053820.62	44053820.86	0.0089	0.0033 *
Venus	115903-06-02 23:58 G	44053913.28	44053913.50	44053913.72	0.0089	0.0002
Venus	115904-01-14 13:24 G	44054138.84	44054139.06	44054139.28	0.0089	0.0009
Earth	115904-03-03 14:22 G	44054187.92	44054188.10	44054188.32	0.0089	0.0057
Moon	115904-03-03 16:32 G	44054188.02	44054188.19	44054188.39	0.0089	0.0060 *
Venus	115904-08-27 02:36 G	44054364.39	44054364.61	44054364.82	0.0089	0.0019
Moon	115905-03-05 23:29 G	44054555.36	44054555.48	44054555.63	0.0089	0.0076
Earth	115905-03-06 02:36 G	44054555.51	44054555.61	44054555.74	0.0089	0.0080 *
Venus	115905-04-09 15:34 G	44054589.95	44054590.15	44054590.36	0.0089	0.0028
Venus	115905-11-21 04:32 G	44054815.51	44054815.69	44054815.90	0.0089	0.0039
Venus	115906-07-04 17:58 G	44055041.07	44055041.25	44055041.44	0.0089	0.0048
Venus	115907-02-15 06:56 G	44055266.63	44055266.79	44055266.97	0.0089	0.0058
Venus	115907-09-28 19:39 G	44055492.20	44055492.32	44055492.49	0.0089	0.0068
Venus	115908-05-11 09:05 G	44055717.78	44055717.88	44055718.00	0.0090	0.0077
Venus	115908-12-22 22:03 G	44055943.38	44055943.42	44055943.49	0.0090	0.0087
Mars	115931-08-11 03:34 G	44064209.36	44064209.65	44064209.96	0.0090	0.0011
Mercury	115976-12-30 11:58 G	44080788.00	44080788.00	44080788.03	0.0088	0.0088
Mercury	115977-03-28 13:39 G	44080876.02	44080876.07	44080876.13	0.0088	0.0080
Mercury	115977-06-24 15:05 G	44080964.06	44080964.13	44080964.22	0.0088	0.0074

Mercury	115977-09-20 16:46 G	44081052.11	44081052.20	44081052.30	0.0088	0.0067
Mercury	115977-12-17 18:27 G	44081140.17	44081140.27	44081140.37	0.0088	0.0060
Mercury	115978-03-15 19:53 G	44081228.22	44081228.33	44081228.45	0.0088	0.0053
Mercury	115978-06-11 21:20 G	44081316.28	44081316.39	44081316.52	0.0088	0.0046
Mercury	115978-09-07 22:46 G	44081404.34	44081404.45	44081404.59	0.0088	0.0039
Mercury	115978-12-05 00:27 G	44081492.40	44081492.52	44081492.66	0.0088	0.0032
Mercury	115979-03-03 02:08 G	44081580.45	44081580.59	44081580.72	0.0088	0.0025
Venus	115979-05-14 11:44 G	44081652.93	44081652.99	44081653.09	0.0088	0.0081
Mercury	115979-05-30 03:34 G	44081668.52	44081668.65	44081668.79	0.0088	0.0018
Earth	115979-08-17 11:00 G	44081747.86	44081747.96	44081748.11	0.0088	0.0076
Moon	115979-08-17 14:36 G	44081747.99	44081748.11	44081748.29	0.0088	0.0072 *
Mercury	115979-08-26 05:00 G	44081756.58	44081756.71	44081756.85	0.0088	0.0012
Mercury	115979-11-22 06:41 G	44081844.64	44081844.78	44081844.92	0.0088	0.0005
Venus	115979-12-26 00:12 G	44081878.41	44081878.51	44081878.66	0.0088	0.0073
Mercury	115980-02-18 08:08 G	44081932.70	44081932.84	44081932.98	0.0088	0.0002
Mercury	115980-05-16 09:34 G	44082020.76	44082020.90	44082021.04	0.0088	0.0009
Venus	115980-08-07 12:56 G	44082103.91	44082104.04	44082104.22	0.0088	0.0063
Mercury	115980-08-12 11:00 G	44082108.83	44082108.96	44082109.10	0.0088	0.0016
Moon	115980-08-18 19:24 G	44082115.14	44082115.31	44082115.52	0.0088	0.0058
Earth	115980-08-18 22:32 G	44082115.25	44082115.44	44082115.66	0.0088	0.0053 *
Mercury	115980-11-08 12:41 G	44082196.89	44082197.03	44082197.16	0.0088	0.0022
Mercury	115981-02-04 13:53 G	44082284.96	44082285.08	44082285.22	0.0088	0.0029
Venus	115981-03-21 01:53 G	44082329.41	44082329.58	44082329.76	0.0088	0.0053
Mercury	115981-05-03 15:20 G	44082373.02	44082373.14	44082373.28	0.0088	0.0036
Mercury	115981-07-30 17:00 G	44082461.09	44082461.21	44082461.33	0.0088	0.0042
Earth	115981-08-21 09:34 G	44082482.67	44082482.90	44082483.16	0.0088	0.0031
Moon	115981-08-21 11:58 G	44082482.75	44082483.00	44082483.26	0.0088	0.0026 *
Mercury	115981-10-26 18:12 G	44082549.16	44082549.26	44082549.38	0.0088	0.0049
Venus	115981-11-01 14:22 G	44082554.93	44082555.10	44082555.31	0.0088	0.0045
Mercury	115982-01-22 19:39 G	44082637.23	44082637.32	44082637.44	0.0088	0.0056

Mercury	115982-04-20 21:20 G	44082725.30	44082725.39	44082725.49	0.0088	0.0062
Venus	115982-06-15 03:20 G	44082780.45	44082780.64	44082780.85	0.0088	0.0035
Mercury	115982-07-17 22:32 G	44082813.37	44082813.44	44082813.54	0.0088	0.0069
Moon	115982-08-23 19:39 G	44082850.08	44082850.32	44082850.57	0.0088	0.0013
Earth	115982-08-23 20:51 G	44082850.11	44082850.37	44082850.63	0.0088	0.0008 *
Mercury	115982-10-14 00:12 G	44082901.44	44082901.51	44082901.58	0.0088	0.0075
Mercury	115983-01-10 01:24 G	44082989.52	44082989.56	44082989.62	0.0088	0.0082
Venus	115983-01-26 16:17 G	44083005.97	44083006.18	44083006.39	0.0088	0.0025
Moon	115983-08-26 06:56 G	44083217.54	44083217.79	44083218.06	0.0088	0.0019
Earth	115983-08-26 07:53 G	44083217.58	44083217.83	44083218.09	0.0088	0.0014 *
Venus	115983-09-09 04:46 G	44083231.49	44083231.70	44083231.92	0.0088	0.0016
Venus	115984-04-21 17:29 G	44083457.02	44083457.23	44083457.46	0.0088	0.0007
Earth	115984-08-27 18:56 G	44083585.06	44083585.29	44083585.53	0.0088	0.0037
Moon	115984-08-27 20:36 G	44083585.14	44083585.36	44083585.61	0.0088	0.0033 *
Venus	115984-12-03 06:27 G	44083682.55	44083682.77	44083682.99	0.0088	0.0003
Venus	115985-07-16 19:10 G	44083908.08	44083908.30	44083908.52	0.0088	0.0012
Moon	115985-08-30 03:05 G	44083952.47	44083952.63	44083952.83	0.0088	0.0064
Earth	115985-08-30 05:29 G	44083952.57	44083952.73	44083952.95	0.0088	0.0060 *
Venus	115986-02-27 07:53 G	44084133.62	44084133.83	44084134.05	0.0088	0.0021
Earth	115986-09-01 16:46 G	44084320.13	44084320.20	44084320.32	0.0088	0.0082
Moon	115986-09-01 20:08 G	44084320.26	44084320.34	44084320.50	0.0088	0.0078 *
Venus	115986-10-10 20:22 G	44084359.16	44084359.35	44084359.57	0.0088	0.0031
Venus	115987-05-24 09:34 G	44084584.70	44084584.90	44084585.10	0.0088	0.0040
Venus	115988-01-04 22:03 G	44084810.25	44084810.42	44084810.62	0.0088	0.0050
Venus	115988-08-17 11:00 G	44085035.81	44085035.96	44085036.14	0.0088	0.0059
Venus	115989-03-30 23:58 G	44085261.37	44085261.50	44085261.65	0.0088	0.0068
Venus	115989-11-11 12:27 G	44085486.95	44085487.02	44085487.15	0.0088	0.0078
Venus	115990-06-25 01:39 G	44085712.56	44085712.57	44085712.62	0.0088	0.0087



# 117TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 117th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	116013-04-17 02:22	G	44094044.37	44094044.60	44094044.85	0.0088	0.0058	
Mars	116015-03-13 09:20	G	44094739.65	44094739.89	44094740.16	0.0088	0.0054	
Jupiter	116041-09-22 15:48	G	44104429.59	44104430.16	44104430.74	0.0088	0.0007	
Mercury	116061-02-24 06:41	G	44111524.74	44111524.78	44111524.86	0.0089	0.0084	
Mercury	116061-05-23 09:48	G	44111612.83	44111612.91	44111613.02	0.0089	0.0075	
Mercury	116061-08-19 12:56	G	44111700.93	44111701.04	44111701.17	0.0089	0.0066	
Mercury	116061-11-15 16:03	G	44111789.04	44111789.17	44111789.32	0.0089	0.0057	
Mercury	116062-02-11 19:10	G	44111877.16	44111877.30	44111877.46	0.0089	0.0048	
Mercury	116062-05-10 22:17	G	44111965.27	44111965.43	44111965.60	0.0089	0.0039	
Mercury	116062-08-07 01:24	G	44112053.40	44112053.56	44112053.74	0.0089	0.0030	
Venus	116062-09-25 23:58	G	44112103.42	44112103.50	44112103.61	0.0089	0.0080	
Mercury	116062-11-03 04:32	G	44112141.52	44112141.69	44112141.87	0.0089	0.0021	
Mercury	116063-01-30 07:39	G	44112229.64	44112229.82	44112230.01	0.0089	0.0012	
Moon	116063-02-20 07:53	G	44112250.69	44112250.83	44112251.02	0.0089	0.0067	
Earth	116063-02-20 11:44	G	44112250.83	44112250.99	44112251.14	0.0089	0.0071	*
Mercury	116063-04-28 11:00	G	44112317.77	44112317.96	44112318.14	0.0089	0.0003	
Venus	116063-05-09 13:24	G	44112328.94	44112329.06	44112329.21	0.0089	0.0071	
Mercury	116063-07-25 14:08	G	44112405.90	44112406.09	44112406.27	0.0089	0.0007	
Mercury	116063-10-21 17:15	G	44112494.04	44112494.22	44112494.40	0.0089	0.0016	

Venus	116063-12-21 02:36 G	44112554.47	44112554.61	44112554.79	0.0089	0.0062
Mercury	116064-01-17 20:08 G	44112582.17	44112582.34	44112582.53	0.0089	0.0025
Earth	116064-02-22 23:15 G	44112618.27	44112618.47	44112618.71	0.0089	0.0048
Moon	116064-02-23 02:22 G	44112618.40	44112618.60	44112618.83	0.0089	0.0052 *
Mercury	116064-04-14 23:29 G	44112670.31	44112670.48	44112670.65	0.0089	0.0034
Mercury	116064-07-12 02:36 G	44112758.46	44112758.61	44112758.78	0.0089	0.0044
Venus	116064-08-02 16:03 G	44112780.01	44112780.17	44112780.37	0.0089	0.0052
Mercury	116064-10-08 05:29 G	44112846.60	44112846.73	44112846.90	0.0089	0.0054
Mercury	116065-01-04 08:51 G	44112934.75	44112934.87	44112935.02	0.0089	0.0063
Moon	116065-02-24 10:32 G	44112985.70	44112985.94	44112986.19	0.0089	0.0020
Earth	116065-02-24 11:44 G	44112985.76	44112985.99	44112986.25	0.0089	0.0024 *
Venus	116065-03-16 05:29 G	44113005.55	44113005.73	44113005.94	0.0089	0.0042
Mercury	116065-04-02 12:12 G	44113022.91	44113023.01	44113023.13	0.0089	0.0072
Mercury	116065-06-29 15:20 G	44113111.08	44113111.14	44113111.23	0.0089	0.0081
Venus	116065-10-27 18:56 G	44113231.09	44113231.29	44113231.51	0.0089	0.0032
Moon	116066-02-27 00:12 G	44113353.25	44113353.51	44113353.78	0.0089	0.0004
Earth	116066-02-27 00:27 G	44113353.26	44113353.52	44113353.77	0.0089	0.0001 *
Venus	116066-06-10 08:08 G	44113456.64	44113456.84	44113457.07	0.0089	0.0023
Venus	116067-01-21 21:48 G	44113682.19	44113682.41	44113682.63	0.0089	0.0012
Earth	116067-03-01 12:27 G	44113720.78	44113721.02	44113721.27	0.0089	0.0024
Moon	116067-03-01 13:24 G	44113720.82	44113721.06	44113721.30	0.0089	0.0028 *
Venus	116067-09-04 11:15 G	44113907.75	44113907.97	44113908.19	0.0089	0.0003
Moon	116068-03-02 22:17 G	44114088.20	44114088.43	44114088.67	0.0089	0.0043
Earth	116068-03-03 00:27 G	44114088.32	44114088.52	44114088.76	0.0089	0.0047 *
Venus	116068-04-17 00:27 G	44114133.30	44114133.52	44114133.74	0.0089	0.0008
Venus	116068-11-28 13:39 G	44114358.86	44114359.07	44114359.29	0.0089	0.0018
Earth	116069-03-05 12:27 G	44114455.89	44114456.02	44114456.20	0.0089	0.0071
Moon	116069-03-05 15:34 G	44114456.04	44114456.15	44114456.31	0.0089	0.0075 *
Venus	116069-07-12 02:51 G	44114584.42	44114584.62	44114584.84	0.0089	0.0027
Venus	116070-02-22 15:48 G	44114809.98	44114810.16	44114810.38	0.0089	0.0038

Venus	116070-10-06 05:15 G	44115035.54	44115035.72	44115035.91	0.0089	0.0047
Venus	116071-05-19 18:12 G	44115261.10	44115261.26	44115261.44	0.0089	0.0057
Venus	116071-12-31 07:10 G	44115486.68	44115486.80	44115486.97	0.0089	0.0067
Venus	116072-08-12 20:36 G	44115712.25	44115712.36	44115712.48	0.0090	0.0076
Venus	116073-03-26 09:20 G	44115937.85	44115937.89	44115937.97	0.0090	0.0086
Mars	116095-03-26 06:27 G	44123972.53	44123972.77	44123973.02	0.0090	0.0052
Mars	116097-02-17 13:39 G	44124666.85	44124667.07	44124667.31	0.0090	0.0058
Mercury	116141-09-27 11:44 G	44140958.96	44140958.99	44140959.04	0.0088	0.0084
Mercury	116141-12-24 13:24 G	44141047.00	44141047.06	44141047.13	0.0088	0.0077
Mercury	116142-03-22 15:05 G	44141135.05	44141135.13	44141135.22	0.0088	0.0070
Mercury	116142-06-18 16:32 G	44141223.10	44141223.19	44141223.29	0.0088	0.0063
Mercury	116142-09-14 18:12 G	44141311.15	44141311.26	44141311.37	0.0088	0.0056
Mercury	116142-12-11 19:24 G	44141399.21	44141399.31	44141399.44	0.0088	0.0049
Mercury	116143-03-09 21:05 G	44141487.26	44141487.38	44141487.51	0.0088	0.0042
Mercury	116143-06-05 22:32 G	44141575.32	44141575.44	44141575.58	0.0088	0.0036
Venus	116143-08-16 23:00 G	44141647.40	44141647.46	44141647.56	0.0088	0.0082
Moon	116143-08-17 18:12 G	44141648.21	44141648.26	44141648.32	0.0088	0.0086
Earth	116143-08-17 21:05 G	44141648.35	44141648.38	44141648.48	0.0088	0.0086
Mercury	116143-09-02 00:12 G	44141663.38	44141663.51	44141663.65	0.0088	0.0028
Mercury	116143-11-29 01:53 G	44141751.44	44141751.58	44141751.71	0.0088	0.0021
Mercury	116144-02-25 03:20 G	44141839.50	44141839.64	44141839.78	0.0088	0.0014
Venus	116144-03-29 11:29 G	44141872.89	44141872.98	44141873.13	0.0088	0.0074
Mercury	116144-05-23 04:46 G	44141927.57	44141927.70	44141927.84	0.0088	0.0008
Mercury	116144-08-19 06:27 G	44142015.63	44142015.77	44142015.91	0.0088	0.0001
Earth	116144-08-19 08:36 G	44142015.70	44142015.86	44142016.06	0.0088	0.0062 *
Moon	116144-08-19 11:29 G	44142015.81	44142015.98	44142016.19	0.0088	0.0062 *
Venus	116144-11-10 00:41 G	44142098.38	44142098.53	44142098.69	0.0088	0.0064
Mercury	116144-11-15 07:53 G	44142103.69	44142103.83	44142103.97	0.0088	0.0006
Mercury	116145-02-11 09:20 G	44142191.76	44142191.89	44142192.03	0.0088	0.0013
Mercury	116145-05-10 11:00 G	44142279.82	44142279.96	44142280.09	0.0088	0.0020

Venus	116145-06-23 13:24 G	44142323.90	44142324.06	44142324.24	0.0088	0.0054
Mercury	116145-08-06 12:27 G	44142367.89	44142368.02	44142368.15	0.0088	0.0026
Moon	116145-08-21 17:58 G	44142383.04	44142383.25	44142383.49	0.0088	0.0040
Earth	116145-08-21 20:08 G	44142383.11	44142383.34	44142383.57	0.0088	0.0040 *
Mercury	116145-11-02 13:39 G	44142455.95	44142456.07	44142456.21	0.0088	0.0033
Mercury	116146-01-29 15:20 G	44142544.02	44142544.14	44142544.26	0.0088	0.0040
Venus	116146-02-04 01:53 G	44142549.41	44142549.58	44142549.78	0.0088	0.0045
Mercury	116146-04-27 16:46 G	44142632.09	44142632.20	44142632.32	0.0088	0.0046
Mercury	116146-07-24 17:58 G	44142720.15	44142720.25	44142720.37	0.0088	0.0054
Earth	116146-08-24 06:56 G	44142750.55	44142750.79	44142751.05	0.0088	0.0017
Moon	116146-08-24 07:53 G	44142750.57	44142750.83	44142751.10	0.0088	0.0016 *
Venus	116146-09-17 14:36 G	44142774.92	44142775.11	44142775.32	0.0088	0.0036
Mercury	116146-10-20 19:39 G	44142808.22	44142808.32	44142808.42	0.0088	0.0059
Mercury	116147-01-16 21:05 G	44142896.29	44142896.38	44142896.47	0.0088	0.0066
Mercury	116147-04-14 22:17 G	44142984.37	44142984.43	44142984.52	0.0088	0.0073
Venus	116147-05-01 03:34 G	44143000.44	44143000.65	44143000.86	0.0088	0.0026
Mercury	116147-07-11 23:58 G	44143072.45	44143072.50	44143072.56	0.0088	0.0079
Earth	116147-08-26 18:12 G	44143118.00	44143118.26	44143118.52	0.0088	0.0006
Moon	116147-08-26 19:10 G	44143118.05	44143118.30	44143118.55	0.0088	0.0006 *
Mercury	116147-10-08 01:10 G	44143160.54	44143160.55	44143160.59	0.0088	0.0086
Venus	116147-12-12 16:03 G	44143225.96	44143226.17	44143226.40	0.0088	0.0017
Venus	116148-07-25 05:00 G	44143451.49	44143451.71	44143451.93	0.0088	0.0008
Moon	116148-08-28 02:51 G	44143485.38	44143485.62	44143485.88	0.0088	0.0028
Earth	116148-08-28 05:00 G	44143485.48	44143485.71	44143485.97	0.0088	0.0029 *
Venus	116149-03-07 17:44 G	44143677.02	44143677.24	44143677.46	0.0088	0.0002
Earth	116149-08-30 16:03 G	44143852.97	44143853.17	44143853.39	0.0088	0.0051
Moon	116149-08-30 18:41 G	44143853.10	44143853.28	44143853.51	0.0088	0.0051 *
Venus	116149-10-19 06:27 G	44143902.55	44143902.77	44143902.99	0.0088	0.0011
Venus	116150-06-01 18:56 G	44144128.09	44144128.29	44144128.52	0.0088	0.0021
Moon	116150-09-01 23:15 G	44144220.35	44144220.47	44144220.63	0.0088	0.0073

Earth	116150-09-02 02:51 G	44144220.51	44144220.62	44144220.79	0.0088	0.0074 *
Venus	116151-01-13 07:39 G	44144353.63	44144353.82	44144354.04	0.0088	0.0030
Venus	116151-08-26 20:36 G	44144579.17	44144579.36	44144579.56	0.0088	0.0039
Venus	116152-04-08 08:51 G	44144804.71	44144804.87	44144805.08	0.0088	0.0049
Venus	116152-11-19 21:48 G	44145030.26	44145030.41	44145030.59	0.0088	0.0058
Venus	116153-07-03 11:00 G	44145255.83	44145255.96	44145256.11	0.0088	0.0067
Venus	116154-02-13 23:58 G	44145481.40	44145481.50	44145481.61	0.0088	0.0076
Venus	116154-09-27 12:27 G	44145706.99	44145707.02	44145707.09	0.0088	0.0086
Mars	116178-10-26 17:00 G	44154501.90	44154502.21	44154502.55	0.0088	0.0013
Jupiter	116207-11-28 08:08 G	44165125.32	44165125.84	44165126.43	0.0088	0.0024
Mercury	116225-08-27 03:05 G	44171607.61	44171607.63	44171607.67	0.0089	0.0088
Mercury	116225-11-23 05:44 G	44171695.68	44171695.74	44171695.84	0.0089	0.0079
Mercury	116226-02-19 08:51 G	44171783.78	44171783.87	44171784.00	0.0089	0.0070
Mercury	116226-05-18 11:58 G	44171871.89	44171872.00	44171872.15	0.0089	0.0061
Mercury	116226-08-14 15:05 G	44171960.00	44171960.13	44171960.29	0.0089	0.0052
Mercury	116226-11-10 18:12 G	44172048.11	44172048.26	44172048.43	0.0089	0.0043
Venus	116226-12-30 11:00 G	44172097.88	44172097.96	44172098.06	0.0089	0.0081
Mercury	116227-02-06 21:20 G	44172136.23	44172136.39	44172136.56	0.0089	0.0034
Earth	116227-02-21 20:36 G	44172151.27	44172151.36	44172151.50	0.0089	0.0080
Moon	116227-02-21 23:58 G	44172151.39	44172151.50	44172151.64	0.0089	0.0079 *
Mercury	116227-05-06 00:27 G	44172224.35	44172224.52	44172224.70	0.0089	0.0025
Mercury	116227-08-02 03:34 G	44172312.48	44172312.65	44172312.83	0.0089	0.0016
Venus	116227-08-12 23:58 G	44172323.40	44172323.50	44172323.66	0.0089	0.0073
Mercury	116227-10-29 06:41 G	44172400.60	44172400.78	44172400.96	0.0089	0.0007
Mercury	116228-01-25 09:48 G	44172488.73	44172488.91	44172489.10	0.0089	0.0003
Moon	116228-02-24 06:27 G	44172518.60	44172518.77	44172518.99	0.0089	0.0058
Earth	116228-02-24 09:20 G	44172518.70	44172518.89	44172519.10	0.0089	0.0057 *
Venus	116228-03-25 13:24 G	44172548.93	44172549.06	44172549.24	0.0089	0.0063
Mercury	116228-04-22 12:56 G	44172576.86	44172577.04	44172577.22	0.0089	0.0011
Mercury	116228-07-19 16:03 G	44172665.00	44172665.17	44172665.35	0.0089	0.0021

Mercury	116228-10-15 19:10 G	44172753.13	44172753.30	44172753.48	0.0089	0.0030
Venus	116228-11-06 03:05 G	44172774.46	44172774.63	44172774.82	0.0089	0.0052
Mercury	116229-01-11 22:17 G	44172841.28	44172841.43	44172841.60	0.0089	0.0039
Earth	116229-02-25 21:20 G	44172886.17	44172886.39	44172886.65	0.0089	0.0034
Moon	116229-02-25 22:46 G	44172886.21	44172886.45	44172886.71	0.0089	0.0032 *
Mercury	116229-04-10 01:24 G	44172929.42	44172929.56	44172929.73	0.0089	0.0049
Venus	116229-06-19 16:32 G	44173000.00	44173000.19	44173000.39	0.0089	0.0043
Mercury	116229-07-07 04:46 G	44173017.57	44173017.70	44173017.85	0.0089	0.0058
Mercury	116229-10-03 07:39 G	44173105.72	44173105.82	44173105.96	0.0089	0.0068
Mercury	116229-12-30 11:15 G	44173193.88	44173193.97	44173194.07	0.0089	0.0076
Venus	116230-01-31 05:58 G	44173225.55	44173225.75	44173225.96	0.0089	0.0033
Earth	116230-02-28 09:48 G	44173253.66	44173253.91	44173254.17	0.0089	0.0010
Moon	116230-02-28 10:17 G	44173253.69	44173253.93	44173254.18	0.0089	0.0011 *
Mercury	116230-03-28 14:08 G	44173282.06	44173282.09	44173282.16	0.0089	0.0086
Venus	116230-09-13 18:56 G	44173451.09	44173451.29	44173451.52	0.0089	0.0024
Moon	116231-03-02 20:36 G	44173621.11	44173621.36	44173621.64	0.0089	0.0016
Earth	116231-03-02 22:03 G	44173621.17	44173621.42	44173621.68	0.0089	0.0014 *
Venus	116231-04-27 08:22 G	44173676.64	44173676.85	44173677.08	0.0089	0.0014
Venus	116231-12-08 22:03 G	44173902.20	44173902.42	44173902.64	0.0089	0.0003
Earth	116232-03-04 10:17 G	44173988.70	44173988.93	44173989.16	0.0089	0.0038
Moon	116232-03-04 12:56 G	44173988.81	44173989.04	44173989.27	0.0089	0.0037 *
Venus	116232-07-21 11:15 G	44174127.75	44174127.97	44174128.19	0.0089	0.0007
Venus	116233-03-04 00:27 G	44174353.31	44174353.52	44174353.74	0.0089	0.0016
Moon	116233-03-06 18:41 G	44174356.12	44174356.28	44174356.49	0.0089	0.0064
Earth	116233-03-06 22:03 G	44174356.26	44174356.42	44174356.63	0.0089	0.0062 *
Venus	116233-10-15 13:24 G	44174578.87	44174579.06	44174579.29	0.0089	0.0027
Earth	116234-03-09 10:32 G	44174723.88	44174723.94	44174724.04	0.0089	0.0085
Moon	116234-03-09 13:39 G	44174724.02	44174724.07	44174724.18	0.0089	0.0085 *
Venus	116234-05-29 03:05 G	44174804.43	44174804.63	44174804.83	0.0089	0.0036
Venus	116235-01-09 16:17 G	44175030.00	44175030.18	44175030.38	0.0089	0.0046

Venus	116235-08-23 05:15 G	44175255.57	44175255.72	44175255.91	0.0089	0.0056
Venus	116236-04-04 18:12 G	44175481.14	44175481.26	44175481.43	0.0089	0.0066
Venus	116236-11-16 07:39 G	44175706.71	44175706.82	44175706.95	0.0089	0.0075
Venus	116237-06-29 20:36 G	44175932.31	44175932.36	44175932.45	0.0090	0.0085
Mars	116260-10-04 16:32 G	44184429.90	44184430.19	44184430.49	0.0090	0.0017
Mercury	116306-03-30 10:03 G	44201041.90	44201041.92	44201041.94	0.0088	0.0087
Mercury	116306-06-26 11:44 G	44201129.93	44201129.99	44201130.05	0.0088	0.0080
Mercury	116306-09-22 12:56 G	44201217.97	44201218.04	44201218.13	0.0088	0.0073
Mercury	116306-12-19 14:22 G	44201306.02	44201306.10	44201306.21	0.0088	0.0067
Mercury	116307-03-17 16:03 G	44201394.08	44201394.17	44201394.29	0.0088	0.0059
Mercury	116307-06-13 17:44 G	44201482.13	44201482.24	44201482.36	0.0088	0.0052
Mercury	116307-09-09 19:10 G	44201570.19	44201570.30	44201570.43	0.0088	0.0046
Venus	116307-11-20 10:17 G	44201641.88	44201641.93	44201642.02	0.0088	0.0083
Mercury	116307-12-06 20:51 G	44201658.25	44201658.37	44201658.50	0.0088	0.0038
Mercury	116308-03-03 22:32 G	44201746.31	44201746.44	44201746.57	0.0088	0.0031
Mercury	116308-05-30 23:58 G	44201834.37	44201834.50	44201834.64	0.0088	0.0024
Venus	116308-07-02 22:46 G	44201867.36	44201867.45	44201867.60	0.0088	0.0075
Moon	116308-08-20 16:03 G	44201916.02	44201916.17	44201916.34	0.0088	0.0067
Earth	116308-08-20 18:27 G	44201916.14	44201916.27	44201916.44	0.0088	0.0071 *
Mercury	116308-08-27 01:39 G	44201922.43	44201922.57	44201922.70	0.0088	0.0018
Mercury	116308-11-23 03:05 G	44202010.49	44202010.63	44202010.77	0.0088	0.0011
Venus	116309-02-13 11:58 G	44202092.86	44202093.00	44202093.16	0.0088	0.0064
Mercury	116309-02-19 04:32 G	44202098.55	44202098.69	44202098.83	0.0088	0.0005
Mercury	116309-05-18 06:12 G	44202186.62	44202186.76	44202186.90	0.0088	0.0003
Mercury	116309-08-14 07:39 G	44202274.68	44202274.82	44202274.96	0.0088	0.0010
Earth	116309-08-23 05:58 G	44202283.54	44202283.75	44202283.97	0.0088	0.0048
Moon	116309-08-23 07:24 G	44202283.60	44202283.81	44202284.03	0.0088	0.0052 *
Venus	116309-09-27 00:27 G	44202318.36	44202318.52	44202318.70	0.0088	0.0055
Mercury	116309-11-10 09:05 G	44202362.75	44202362.88	44202363.02	0.0088	0.0017
Mercury	116310-02-06 10:32 G	44202450.81	44202450.94	44202451.08	0.0088	0.0023

Mercury	116310-05-05 11:58 G	44202538.88	44202539.00	44202539.14	0.0088	0.0030
Venus	116310-05-10 13:10 G	44202543.88	44202544.05	44202544.25	0.0088	0.0046
Mercury	116310-08-01 13:24 G	44202626.94	44202627.06	44202627.20	0.0088	0.0037
Moon	116310-08-25 16:32 G	44202650.96	44202651.19	44202651.44	0.0088	0.0022
Earth	116310-08-25 17:00 G	44202650.97	44202651.21	44202651.47	0.0088	0.0026 *
Mercury	116310-10-28 15:05 G	44202715.01	44202715.13	44202715.25	0.0088	0.0043
Venus	116310-12-22 02:08 G	44202769.40	44202769.59	44202769.79	0.0088	0.0037
Mercury	116311-01-24 16:32 G	44202803.08	44202803.19	44202803.31	0.0088	0.0050
Mercury	116311-04-22 17:44 G	44202891.15	44202891.24	44202891.36	0.0088	0.0057
Mercury	116311-07-19 19:24 G	44202979.22	44202979.31	44202979.41	0.0088	0.0063
Venus	116311-08-04 14:51 G	44202994.92	44202995.12	44202995.33	0.0088	0.0027
Moon	116311-08-28 03:05 G	44203018.37	44203018.63	44203018.90	0.0088	0.0008
Earth	116311-08-28 04:32 G	44203018.43	44203018.69	44203018.95	0.0088	0.0003 *
Mercury	116311-10-15 20:36 G	44203067.29	44203067.36	44203067.46	0.0088	0.0070
Mercury	116312-01-11 22:17 G	44203155.37	44203155.43	44203155.50	0.0088	0.0076
Venus	116312-03-17 03:20 G	44203220.44	44203220.64	44203220.87	0.0088	0.0019
Mercury	116312-04-08 23:29 G	44203243.45	44203243.48	44203243.54	0.0088	0.0083
Earth	116312-08-29 15:20 G	44203385.90	44203386.14	44203386.41	0.0088	0.0020
Moon	116312-08-29 17:44 G	44203386.01	44203386.24	44203386.50	0.0088	0.0024 *
Venus	116312-10-28 16:17 G	44203445.96	44203446.18	44203446.40	0.0088	0.0008
Venus	116313-06-11 05:15 G	44203671.50	44203671.72	44203671.94	0.0088	0.0001
Moon	116313-08-31 23:15 G	44203753.25	44203753.47	44203753.73	0.0088	0.0038
Earth	116313-09-01 02:36 G	44203753.39	44203753.61	44203753.84	0.0088	0.0042 *
Venus	116314-01-22 17:58 G	44203897.03	44203897.25	44203897.47	0.0088	0.0010
Earth	116314-09-03 13:24 G	44204120.91	44204121.06	44204121.25	0.0088	0.0065
Moon	116314-09-03 17:00 G	44204121.08	44204121.21	44204121.39	0.0088	0.0070 *
Venus	116314-09-05 06:27 G	44204122.56	44204122.77	44204122.99	0.0088	0.0020
Venus	116315-04-18 19:10 G	44204348.10	44204348.30	44204348.52	0.0088	0.0029
Moon	116315-09-05 21:20 G	44204488.33	44204488.39	44204488.50	0.0088	0.0083
Earth	116315-09-06 01:10 G	44204488.53	44204488.55	44204488.57	0.0088	0.0087



Venus	116315-11-30 08:08 G	44204573.64	44204573.84	44204574.04	0.0088	0.0038
Venus	116316-07-12 20:36 G	44204799.19	44204799.36	44204799.56	0.0088	0.0048
Venus	116317-02-23 09:20 G	44205024.74	44205024.89	44205025.08	0.0088	0.0057
Venus	116317-10-06 22:17 G	44205250.30	44205250.43	44205250.58	0.0088	0.0066
Venus	116318-05-20 10:46 G	44205475.86	44205475.95	44205476.09	0.0088	0.0076
Venus	116318-12-31 23:44 G	44205701.45	44205701.49	44205701.57	0.0088	0.0085
Mars	116342-06-12 02:51 G	44214264.33	44214264.62	44214264.94	0.0088	0.0029
Mars	116344-05-07 07:10 G	44214959.72	44214959.80	44214959.92	0.0088	0.0083
Jupiter	116374-02-04 17:29 G	44225824.80	44225825.23	44225825.72	0.0088	0.0053
Saturn	116380-12-10 19:39 G	44228325.84	44228326.32	44228326.95	0.0089	0.0054
Mercury	116390-05-25 02:08 G	44231778.54	44231778.59	44231778.67	0.0089	0.0082
Mercury	116390-08-21 05:15 G	44231866.63	44231866.72	44231866.83	0.0089	0.0073
Mercury	116390-11-17 08:22 G	44231954.73	44231954.85	44231954.98	0.0089	0.0064
Mercury	116391-02-13 11:29 G	44232042.84	44232042.98	44232043.12	0.0089	0.0056
Earth	116391-02-22 07:10 G	44232051.80	44232051.80	44232051.83	0.0089	0.0089
Venus	116391-04-03 21:48 G	44232092.35	44232092.41	44232092.51	0.0089	0.0083
Mercury	116391-05-12 14:36 G	44232130.95	44232131.11	44232131.26	0.0089	0.0047
Mercury	116391-08-08 17:15 G	44232219.07	44232219.22	44232219.40	0.0089	0.0038
Mercury	116391-11-04 20:36 G	44232307.19	44232307.36	44232307.53	0.0089	0.0029
Venus	116391-11-15 11:44 G	44232317.87	44232317.99	44232318.12	0.0089	0.0073
Mercury	116392-01-31 23:44 G	44232395.31	44232395.49	44232395.67	0.0089	0.0020
Earth	116392-02-24 19:39 G	44232419.15	44232419.32	44232419.49	0.0089	0.0066
Moon	116392-02-24 21:34 G	44232419.23	44232419.40	44232419.61	0.0089	0.0062 *
Mercury	116392-04-29 02:51 G	44232483.44	44232483.62	44232483.80	0.0089	0.0011
Venus	116392-06-28 00:41 G	44232543.39	44232543.53	44232543.71	0.0089	0.0063
Mercury	116392-07-26 05:58 G	44232571.57	44232571.75	44232571.93	0.0089	0.0002
Mercury	116392-10-22 09:05 G	44232659.70	44232659.88	44232660.06	0.0089	0.0008
Mercury	116393-01-18 11:58 G	44232747.83	44232748.00	44232748.19	0.0089	0.0017
Venus	116393-02-08 14:08 G	44232768.93	44232769.09	44232769.28	0.0089	0.0054
Moon	116393-02-26 06:27 G	44232786.58	44232786.77	44232787.00	0.0089	0.0048

Earth	116393-02-26 07:39 G	44232786.61	44232786.82	44232787.06	0.0089	0.0042	*
Mercury	116393-04-16 15:05 G	44232835.97	44232836.13	44232836.31	0.0089	0.0026	
Mercury	116393-07-13 18:12 G	44232924.10	44232924.26	44232924.44	0.0089	0.0036	
Venus	116393-09-22 03:34 G	44232994.47	44232994.65	44232994.85	0.0089	0.0044	
Mercury	116393-10-09 21:34 G	44233012.25	44233012.40	44233012.56	0.0089	0.0045	
Mercury	116394-01-06 00:27 G	44233100.39	44233100.52	44233100.68	0.0089	0.0054	
Moon	116394-02-28 19:10 G	44233154.05	44233154.30	44233154.58	0.0089	0.0015	
Earth	116394-02-28 20:08 G	44233154.09	44233154.34	44233154.60	0.0089	0.0019	*
Mercury	116394-04-04 03:34 G	44233188.54	44233188.65	44233188.80	0.0089	0.0064	
Venus	116394-05-05 16:46 G	44233220.01	44233220.20	44233220.42	0.0089	0.0034	
Mercury	116394-07-01 06:56 G	44233276.70	44233276.79	44233276.91	0.0089	0.0073	
Mercury	116394-09-27 10:32 G	44233364.87	44233364.94	44233365.01	0.0089	0.0082	
Venus	116394-12-17 06:12 G	44233445.56	44233445.76	44233445.99	0.0089	0.0025	
Earth	116395-03-03 08:08 G	44233521.59	44233521.84	44233522.10	0.0089	0.0005	
Moon	116395-03-03 09:48 G	44233521.66	44233521.91	44233522.16	0.0089	0.0001	*
Venus	116395-07-30 19:39 G	44233671.11	44233671.32	44233671.55	0.0089	0.0015	
Moon	116396-03-04 17:15 G	44233888.99	44233889.22	44233889.48	0.0089	0.0034	
Earth	116396-03-04 20:22 G	44233889.11	44233889.35	44233889.60	0.0089	0.0028	*
Venus	116396-03-12 09:05 G	44233896.66	44233896.88	44233897.10	0.0089	0.0004	
Venus	116396-10-23 22:17 G	44234122.21	44234122.43	44234122.65	0.0089	0.0005	
Earth	116397-03-07 08:08 G	44234256.65	44234256.84	44234257.07	0.0089	0.0053	
Moon	116397-03-07 11:44 G	44234256.79	44234256.99	44234257.22	0.0089	0.0048	*
Venus	116397-06-06 11:29 G	44234347.77	44234347.98	44234348.20	0.0089	0.0015	
Venus	116398-01-18 00:41 G	44234573.33	44234573.53	44234573.75	0.0089	0.0025	
Moon	116398-03-09 16:46 G	44234624.11	44234624.20	44234624.33	0.0089	0.0081	
Earth	116398-03-09 20:22 G	44234624.23	44234624.35	44234624.50	0.0089	0.0076	*
Venus	116398-08-31 14:08 G	44234798.89	44234799.09	44234799.30	0.0089	0.0035	
Venus	116399-04-14 03:05 G	44235024.45	44235024.63	44235024.83	0.0089	0.0045	
Venus	116399-11-25 16:17 G	44235250.02	44235250.18	44235250.37	0.0089	0.0055	
Venus	116400-07-08 05:44 G	44235475.60	44235475.74	44235475.90	0.0089	0.0064	

Venus	116401-02-18 18:41 G	44235701.18	44235701.28	44235701.42	0.0089	0.0074
Venus	116401-10-02 07:39 G	44235926.77	44235926.82	44235926.93	0.0089	0.0084
Mars	116424-05-20 17:15 G	44244192.93	44244193.22	44244193.52	0.0090	0.0025
Mars	116426-04-15 02:08 G	44244887.53	44244887.59	44244887.71	0.0090	0.0086
Jupiter	116450-10-28 16:32 G	44253849.96	44253850.19	44253850.51	0.0089	0.0075
Mercury	116470-12-25 09:48 G	44261212.87	44261212.91	44261212.96	0.0088	0.0083
Mercury	116471-03-23 11:29 G	44261300.91	44261300.98	44261301.05	0.0088	0.0076
Mercury	116471-06-19 12:41 G	44261388.96	44261389.03	44261389.13	0.0088	0.0069
Mercury	116471-09-15 14:22 G	44261477.01	44261477.10	44261477.21	0.0088	0.0062
Mercury	116471-12-12 15:48 G	44261565.06	44261565.16	44261565.28	0.0088	0.0055
Venus	116472-02-21 21:34 G	44261636.37	44261636.40	44261636.50	0.0088	0.0085
Mercury	116472-03-09 17:29 G	44261653.12	44261653.23	44261653.35	0.0088	0.0048
Mercury	116472-06-05 18:56 G	44261741.18	44261741.29	44261741.43	0.0088	0.0042
Earth	116472-08-20 04:32 G	44261816.61	44261816.69	44261816.83	0.0088	0.0080
Moon	116472-08-20 07:10 G	44261816.74	44261816.80	44261816.91	0.0088	0.0083 *
Mercury	116472-09-01 20:36 G	44261829.24	44261829.36	44261829.50	0.0088	0.0034
Venus	116472-10-04 10:46 G	44261861.84	44261861.95	44261862.07	0.0088	0.0075
Mercury	116472-11-28 22:17 G	44261917.30	44261917.43	44261917.56	0.0088	0.0027
Mercury	116473-02-24 23:44 G	44262005.36	44262005.49	44262005.63	0.0088	0.0021
Venus	116473-05-17 23:15 G	44262087.34	44262087.47	44262087.63	0.0088	0.0066
Mercury	116473-05-24 01:10 G	44262093.42	44262093.55	44262093.70	0.0088	0.0014
Mercury	116473-08-20 02:51 G	44262181.48	44262181.62	44262181.76	0.0088	0.0007
Moon	116473-08-22 14:36 G	44262183.94	44262184.11	44262184.33	0.0088	0.0055
Earth	116473-08-22 15:48 G	44262183.98	44262184.16	44262184.37	0.0088	0.0057 *
Mercury	116473-11-16 04:17 G	44262269.55	44262269.68	44262269.82	0.0088	0.0003
Venus	116473-12-29 11:44 G	44262312.84	44262312.99	44262313.18	0.0088	0.0057
Mercury	116474-02-12 05:58 G	44262357.61	44262357.75	44262357.89	0.0088	0.0007
Mercury	116474-05-11 07:24 G	44262445.67	44262445.81	44262445.95	0.0088	0.0013
Mercury	116474-08-07 08:51 G	44262533.74	44262533.87	44262534.01	0.0088	0.0020
Venus	116474-08-12 00:27 G	44262538.35	44262538.52	44262538.72	0.0088	0.0047

Earth	116474-08-25 03:05 G	44262551.40	44262551.63	44262551.87	0.0088	0.0035
Moon	116474-08-25 03:20 G	44262551.40	44262551.64	44262551.89	0.0088	0.0038 *
Mercury	116474-11-03 10:17 G	44262621.80	44262621.93	44262622.07	0.0088	0.0027
Mercury	116475-01-30 11:44 G	44262709.87	44262709.99	44262710.13	0.0088	0.0034
Venus	116475-03-25 13:24 G	44262763.86	44262764.06	44262764.26	0.0088	0.0038
Mercury	116475-04-28 13:24 G	44262797.94	44262798.06	44262798.18	0.0088	0.0040
Mercury	116475-07-25 14:36 G	44262886.00	44262886.11	44262886.24	0.0088	0.0047
Earth	116475-08-27 14:08 G	44262918.84	44262919.09	44262919.36	0.0088	0.0012
Moon	116475-08-27 15:48 G	44262918.91	44262919.16	44262919.41	0.0088	0.0009 *
Mercury	116475-10-21 16:17 G	44262974.07	44262974.18	44262974.29	0.0088	0.0054
Venus	116475-11-06 01:53 G	44262989.38	44262989.58	44262989.80	0.0088	0.0028
Mercury	116476-01-17 17:44 G	44263062.14	44263062.24	44263062.34	0.0088	0.0060
Mercury	116476-04-14 18:56 G	44263150.22	44263150.29	44263150.39	0.0088	0.0067
Venus	116476-06-18 14:51 G	44263214.91	44263215.12	44263215.34	0.0088	0.0019
Mercury	116476-07-11 20:36 G	44263238.29	44263238.36	44263238.44	0.0088	0.0073
Moon	116476-08-28 22:32 G	44263286.18	44263286.44	44263286.71	0.0088	0.0009
Earth	116476-08-29 01:24 G	44263286.31	44263286.56	44263286.82	0.0088	0.0011 *
Mercury	116476-10-07 21:48 G	44263326.37	44263326.41	44263326.48	0.0088	0.0080
Mercury	116477-01-03 23:29 G	44263414.46	44263414.48	44263414.51	0.0088	0.0086
Venus	116477-01-30 03:34 G	44263440.43	44263440.65	44263440.87	0.0088	0.0010
Earth	116477-08-31 12:41 G	44263653.79	44263654.03	44263654.27	0.0088	0.0033
Moon	116477-08-31 15:20 G	44263653.93	44263654.14	44263654.39	0.0088	0.0037 *
Venus	116477-09-12 16:17 G	44263665.96	44263666.18	44263666.40	0.0088	0.0001
Venus	116478-04-26 05:00 G	44263891.49	44263891.71	44263891.93	0.0088	0.0009
Moon	116478-09-02 20:08 G	44264021.14	44264021.34	44264021.55	0.0088	0.0053
Earth	116478-09-02 23:44 G	44264021.30	44264021.49	44264021.70	0.0088	0.0056 *
Venus	116478-12-07 17:29 G	44264117.03	44264117.23	44264117.46	0.0088	0.0019
Venus	116479-07-21 06:27 G	44264342.57	44264342.77	44264342.99	0.0088	0.0028
Earth	116479-09-05 10:17 G	44264388.84	44264388.93	44264389.07	0.0088	0.0079
Moon	116479-09-05 13:39 G	44264388.99	44264389.07	44264389.19	0.0088	0.0081 *

Venus	116480-03-02 19:24 G	44264568.11	44264568.31	44264568.51	0.0088	0.0037
Venus	116480-10-14 07:39 G	44264793.65	44264793.82	44264794.02	0.0088	0.0047
Venus	116481-05-27 20:36 G	44265019.20	44265019.36	44265019.54	0.0088	0.0056
Venus	116482-01-08 09:34 G	44265244.76	44265244.90	44265245.05	0.0088	0.0065
Venus	116482-08-21 21:48 G	44265470.32	44265470.41	44265470.55	0.0088	0.0075
Venus	116483-04-04 10:46 G	44265695.91	44265695.95	44265696.03	0.0088	0.0084
Mars	116506-01-25 12:41 G	44274026.87	44274027.03	44274027.26	0.0088	0.0070
Mars	116507-12-21 16:46 G	44274721.93	44274722.20	44274722.50	0.0088	0.0042
Jupiter	116540-04-15 12:41 G	44286525.86	44286526.03	44286526.30	0.0089	0.0082
Mercury	116554-11-23 22:03 G	44291861.39	44291861.42	44291861.48	0.0089	0.0086
Mercury	116555-02-20 01:10 G	44291949.47	44291949.55	44291949.65	0.0089	0.0077
Mercury	116555-05-19 04:17 G	44292037.57	44292037.68	44292037.80	0.0089	0.0068
Venus	116555-07-07 08:51 G	44292086.81	44292086.87	44292086.96	0.0089	0.0083
Mercury	116555-08-15 07:24 G	44292125.68	44292125.81	44292125.94	0.0089	0.0060
Mercury	116555-11-11 10:32 G	44292213.79	44292213.94	44292214.09	0.0089	0.0051
Mercury	116556-02-07 13:10 G	44292301.91	44292302.05	44292302.22	0.0089	0.0042
Venus	116556-02-17 21:48 G	44292312.32	44292312.41	44292312.56	0.0089	0.0075
Moon	116556-02-25 03:05 G	44292319.52	44292319.63	44292319.76	0.0089	0.0078
Earth	116556-02-25 04:46 G	44292319.59	44292319.70	44292319.86	0.0089	0.0075 *
Mercury	116556-05-05 16:17 G	44292390.02	44292390.18	44292390.36	0.0089	0.0033
Mercury	116556-08-01 19:39 G	44292478.15	44292478.32	44292478.49	0.0089	0.0024
Venus	116556-09-30 11:29 G	44292537.84	44292537.98	44292538.15	0.0089	0.0064
Mercury	116556-10-28 22:46 G	44292566.27	44292566.45	44292566.63	0.0089	0.0015
Mercury	116557-01-25 01:53 G	44292654.40	44292654.58	44292654.76	0.0089	0.0006
Earth	116557-02-26 17:29 G	44292687.03	44292687.23	44292687.45	0.0089	0.0052
Moon	116557-02-26 18:12 G	44292687.06	44292687.26	44292687.51	0.0089	0.0050 *
Mercury	116557-04-23 05:00 G	44292742.53	44292742.71	44292742.89	0.0089	0.0004
Venus	116557-05-14 00:56 G	44292763.38	44292763.54	44292763.73	0.0089	0.0055
Mercury	116557-07-20 07:53 G	44292830.66	44292830.83	44292831.02	0.0089	0.0013
Mercury	116557-10-16 11:00 G	44292918.79	44292918.96	44292919.14	0.0089	0.0022

Venus	116557-12-25 14:36 G	44292988.93	44292989.11	44292989.31	0.0089	0.0045
Mercury	116558-01-12 14:08 G	44293006.93	44293007.09	44293007.27	0.0089	0.0031
Earth	116558-03-01 05:29 G	44293054.50	44293054.73	44293054.99	0.0089	0.0029
Moon	116558-03-01 06:41 G	44293054.55	44293054.78	44293055.02	0.0089	0.0030 *
Mercury	116558-04-10 17:15 G	44293095.07	44293095.22	44293095.39	0.0089	0.0041
Mercury	116558-07-07 20:36 G	44293183.21	44293183.36	44293183.51	0.0089	0.0050
Venus	116558-08-08 03:48 G	44293214.47	44293214.66	44293214.88	0.0089	0.0035
Mercury	116558-10-03 23:29 G	44293271.36	44293271.48	44293271.63	0.0089	0.0059
Mercury	116558-12-31 02:36 G	44293359.51	44293359.61	44293359.75	0.0089	0.0069
Moon	116559-03-03 16:32 G	44293421.92	44293422.19	44293422.45	0.0089	0.0003
Earth	116559-03-03 18:12 G	44293422.00	44293422.26	44293422.52	0.0089	0.0004 *
Venus	116559-03-21 17:15 G	44293440.02	44293440.22	44293440.44	0.0089	0.0025
Mercury	116559-03-29 05:58 G	44293447.67	44293447.75	44293447.85	0.0089	0.0078
Mercury	116559-06-25 08:51 G	44293535.86	44293535.87	44293535.94	0.0089	0.0088
Venus	116559-11-02 06:41 G	44293665.56	44293665.78	44293666.00	0.0089	0.0015
Earth	116560-03-05 06:12 G	44293789.52	44293789.76	44293790.02	0.0089	0.0019
Moon	116560-03-05 09:05 G	44293789.64	44293789.88	44293790.13	0.0089	0.0017 *
Venus	116560-06-14 20:08 G	44293891.12	44293891.34	44293891.56	0.0089	0.0006
Venus	116561-01-26 09:20 G	44294116.67	44294116.89	44294117.11	0.0089	0.0004
Moon	116561-03-07 14:36 G	44294156.90	44294157.11	44294157.35	0.0089	0.0044
Earth	116561-03-07 18:27 G	44294157.05	44294157.27	44294157.50	0.0089	0.0043 *
Venus	116561-09-08 22:32 G	44294342.23	44294342.44	44294342.66	0.0089	0.0014
Earth	116562-03-10 06:12 G	44294524.61	44294524.76	44294524.95	0.0089	0.0066
Moon	116562-03-10 09:48 G	44294524.74	44294524.91	44294525.10	0.0089	0.0064 *
Venus	116562-04-22 11:58 G	44294567.79	44294568.00	44294568.21	0.0089	0.0024
Venus	116562-12-04 01:10 G	44294793.35	44294793.55	44294793.76	0.0089	0.0034
Venus	116563-07-17 14:08 G	44295018.91	44295019.09	44295019.30	0.0089	0.0044
Venus	116564-02-28 03:20 G	44295244.48	44295244.64	44295244.83	0.0089	0.0053
Venus	116564-10-10 16:46 G	44295470.05	44295470.20	44295470.36	0.0089	0.0063
Venus	116565-05-24 05:44 G	44295695.63	44295695.74	44295695.89	0.0089	0.0073

Venus	116566-01-04 18:56 G	44295921.23	44295921.29	44295921.40	0.0089	0.0083
Mars	116588-01-04 17:15 G	44303956.05	44303956.22	44303956.44	0.0090	0.0068
Mars	116589-11-29 04:03 G	44304650.41	44304650.67	44304650.93	0.0090	0.0044
Jupiter	116617-01-01 13:24 G	44314544.68	44314545.06	44314545.53	0.0089	0.0051
Mercury	116635-06-27 07:53 G	44321295.80	44321295.83	44321295.87	0.0088	0.0086
Mercury	116635-09-23 09:34 G	44321383.84	44321383.90	44321383.96	0.0088	0.0079
Mercury	116635-12-20 11:15 G	44321471.89	44321471.97	44321472.05	0.0088	0.0072
Mercury	116636-03-17 12:41 G	44321559.94	44321560.03	44321560.13	0.0088	0.0065
Venus	116636-05-27 09:48 G	44321630.86	44321630.91	44321630.98	0.0088	0.0084
Mercury	116636-06-13 14:08 G	44321647.99	44321648.09	44321648.20	0.0088	0.0058
Mercury	116636-09-09 15:34 G	44321736.05	44321736.15	44321736.28	0.0088	0.0051
Mercury	116636-12-06 17:15 G	44321824.11	44321824.22	44321824.35	0.0088	0.0044
Venus	116637-01-07 22:17 G	44321856.33	44321856.43	44321856.55	0.0088	0.0075
Mercury	116637-03-04 18:56 G	44321912.17	44321912.29	44321912.42	0.0088	0.0037
Mercury	116637-05-31 20:22 G	44322000.23	44322000.35	44322000.49	0.0088	0.0031
Venus	116637-08-21 10:46 G	44322081.82	44322081.95	44322082.11	0.0088	0.0066
Earth	116637-08-24 02:08 G	44322084.44	44322084.59	44322084.78	0.0088	0.0066
Moon	116637-08-24 03:05 G	44322084.48	44322084.63	44322084.84	0.0088	0.0065 *
Mercury	116637-08-27 22:03 G	44322088.29	44322088.42	44322088.56	0.0088	0.0023
Mercury	116637-11-23 23:29 G	44322176.35	44322176.48	44322176.62	0.0088	0.0017
Mercury	116638-02-20 01:10 G	44322264.41	44322264.55	44322264.69	0.0088	0.0010
Venus	116638-04-03 23:15 G	44322307.32	44322307.47	44322307.65	0.0088	0.0057
Mercury	116638-05-19 02:36 G	44322352.47	44322352.61	44322352.75	0.0088	0.0004
Mercury	116638-08-15 04:17 G	44322440.54	44322440.68	44322440.82	0.0088	0.0004
Moon	116638-08-26 12:56 G	44322451.84	44322452.04	44322452.27	0.0088	0.0046
Earth	116638-08-26 13:24 G	44322451.85	44322452.06	44322452.29	0.0088	0.0044 *
Mercury	116638-11-11 05:44 G	44322528.60	44322528.74	44322528.88	0.0088	0.0011
Venus	116638-11-15 11:44 G	44322532.83	44322532.99	44322533.19	0.0088	0.0048
Mercury	116639-02-07 07:10 G	44322616.67	44322616.80	44322616.94	0.0088	0.0017
Mercury	116639-05-06 08:36 G	44322704.73	44322704.86	44322705.00	0.0088	0.0024

Venus	116639-06-29 00:41 G	44322758.34	44322758.53	44322758.74	0.0088	0.0039
Mercury	116639-08-02 10:03 G	44322792.80	44322792.92	44322793.06	0.0088	0.0031
Moon	116639-08-28 23:00 G	44322819.20	44322819.46	44322819.73	0.0088	0.0018
Earth	116639-08-29 00:12 G	44322819.27	44322819.51	44322819.77	0.0088	0.0021 *
Mercury	116639-10-29 11:44 G	44322880.86	44322880.99	44322881.11	0.0088	0.0037
Mercury	116640-01-25 12:56 G	44322968.93	44322969.04	44322969.17	0.0088	0.0045
Venus	116640-02-09 13:24 G	44322983.86	44322984.06	44322984.27	0.0088	0.0029
Mercury	116640-04-22 14:22 G	44323057.00	44323057.10	44323057.22	0.0088	0.0051
Mercury	116640-07-19 16:03 G	44323145.07	44323145.17	44323145.28	0.0088	0.0057
Earth	116640-08-30 11:29 G	44323186.73	44323186.98	44323187.24	0.0088	0.0002
Moon	116640-08-30 14:08 G	44323186.84	44323187.09	44323187.35	0.0088	0.0001 *
Venus	116640-09-22 01:53 G	44323209.38	44323209.58	44323209.81	0.0088	0.0020
Mercury	116640-10-15 17:29 G	44323233.14	44323233.23	44323233.33	0.0088	0.0064
Mercury	116641-01-11 18:41 G	44323321.21	44323321.28	44323321.38	0.0088	0.0071
Mercury	116641-04-09 20:22 G	44323409.29	44323409.35	44323409.42	0.0088	0.0077
Venus	116641-05-05 14:51 G	44323434.90	44323435.12	44323435.34	0.0088	0.0010
Mercury	116641-07-06 21:34 G	44323497.38	44323497.40	44323497.46	0.0088	0.0084
Moon	116641-09-01 19:24 G	44323554.07	44323554.31	44323554.57	0.0088	0.0027
Earth	116641-09-01 22:32 G	44323554.21	44323554.44	44323554.70	0.0088	0.0025 *
Venus	116641-12-17 03:34 G	44323660.43	44323660.65	44323660.87	0.0088	0.0002
Venus	116642-07-30 16:17 G	44323885.97	44323886.18	44323886.40	0.0088	0.0009
Earth	116642-09-04 09:48 G	44323921.70	44323921.91	44323922.14	0.0088	0.0047
Moon	116642-09-04 13:24 G	44323921.85	44323922.06	44323922.30	0.0088	0.0045 *
Venus	116643-03-13 05:00 G	44324111.50	44324111.71	44324111.93	0.0088	0.0018
Moon	116643-09-06 17:44 G	44324289.12	44324289.24	44324289.40	0.0088	0.0073
Earth	116643-09-06 20:51 G	44324289.23	44324289.37	44324289.54	0.0088	0.0070 *
Venus	116643-10-24 17:44 G	44324337.04	44324337.24	44324337.46	0.0088	0.0027
Venus	116644-06-06 06:27 G	44324562.58	44324562.77	44324562.98	0.0088	0.0037
Venus	116645-01-17 19:10 G	44324788.13	44324788.30	44324788.50	0.0088	0.0046
Venus	116645-08-31 08:08 G	44325013.67	44325013.84	44325014.02	0.0088	0.0055



Venus	116646-04-13 20:22 G	44325239.23	44325239.35	44325239.52	0.0088	0.0065
Venus	116646-11-25 09:05 G	44325464.79	44325464.88	44325465.03	0.0088	0.0074
Venus	116647-07-08 22:17 G	44325690.38	44325690.43	44325690.52	0.0088	0.0083
Mars	116671-08-06 02:51 G	44334484.30	44334484.62	44334484.94	0.0088	0.0000
Mercury	116719-08-22 21:05 G	44352032.32	44352032.38	44352032.47	0.0089	0.0081
Venus	116719-10-10 19:24 G	44352081.25	44352081.31	44352081.39	0.0089	0.0085
Mercury	116719-11-19 00:12 G	44352120.42	44352120.51	44352120.62	0.0089	0.0072
Mercury	116720-02-15 03:20 G	44352208.52	44352208.64	44352208.77	0.0089	0.0063
Earth	116720-02-26 14:36 G	44352220.04	44352220.11	44352220.20	0.0089	0.0085
Moon	116720-02-26 17:15 G	44352220.16	44352220.22	44352220.28	0.0089	0.0087 *
Mercury	116720-05-13 06:27 G	44352296.63	44352296.77	44352296.91	0.0089	0.0055
Venus	116720-05-23 08:36 G	44352306.76	44352306.86	44352307.00	0.0089	0.0075
Mercury	116720-08-09 09:34 G	44352384.74	44352384.90	44352385.05	0.0089	0.0046
Mercury	116720-11-05 12:12 G	44352472.86	44352473.01	44352473.19	0.0089	0.0037
Venus	116721-01-03 22:17 G	44352532.30	44352532.43	44352532.60	0.0089	0.0066
Mercury	116721-02-01 15:20 G	44352560.98	44352561.14	44352561.32	0.0089	0.0028
Moon	116721-02-28 01:53 G	44352587.40	44352587.58	44352587.78	0.0089	0.0059
Earth	116721-02-28 02:51 G	44352587.45	44352587.62	44352587.83	0.0089	0.0061 *
Mercury	116721-04-30 18:41 G	44352649.10	44352649.28	44352649.46	0.0089	0.0019
Mercury	116721-07-27 21:34 G	44352737.23	44352737.40	44352737.59	0.0089	0.0010
Venus	116721-08-17 11:58 G	44352757.84	44352758.00	44352758.18	0.0089	0.0056
Mercury	116721-10-24 00:56 G	44352825.35	44352825.54	44352825.72	0.0089	0.0002
Mercury	116722-01-20 03:48 G	44352913.48	44352913.66	44352913.85	0.0089	0.0009
Moon	116722-03-02 14:51 G	44352954.88	44352955.12	44352955.36	0.0089	0.0041
Earth	116722-03-02 15:20 G	44352954.92	44352955.14	44352955.39	0.0089	0.0038 *
Venus	116722-03-31 01:10 G	44352983.38	44352983.55	44352983.75	0.0089	0.0046
Mercury	116722-04-18 06:56 G	44353001.62	44353001.79	44353001.97	0.0089	0.0018
Mercury	116722-07-15 10:03 G	44353089.75	44353089.92	44353090.10	0.0089	0.0027
Mercury	116722-10-11 13:10 G	44353177.89	44353178.05	44353178.22	0.0089	0.0036
Venus	116722-11-11 14:36 G	44353208.92	44353209.11	44353209.33	0.0089	0.0036

Mercury	116723-01-07 16:17 G	44353266.03	44353266.18	44353266.35	0.0089	0.0045
Earth	116723-03-05 03:34 G	44353322.41	44353322.65	44353322.92	0.0089	0.0015
Moon	116723-03-05 05:15 G	44353322.48	44353322.72	44353322.98	0.0089	0.0012 *
Mercury	116723-04-05 19:24 G	44353354.18	44353354.31	44353354.46	0.0089	0.0055
Venus	116723-06-25 04:03 G	44353434.47	44353434.67	44353434.89	0.0089	0.0027
Mercury	116723-07-02 22:17 G	44353442.33	44353442.43	44353442.58	0.0089	0.0065
Mercury	116723-09-29 01:39 G	44353530.48	44353530.57	44353530.69	0.0089	0.0074
Mercury	116723-12-26 05:00 G	44353618.65	44353618.71	44353618.79	0.0089	0.0083
Venus	116724-02-05 17:29 G	44353660.02	44353660.23	44353660.45	0.0089	0.0017
Moon	116724-03-06 13:24 G	44353689.80	44353690.06	44353690.32	0.0089	0.0007
Earth	116724-03-06 16:03 G	44353689.92	44353690.17	44353690.43	0.0089	0.0010 *
Venus	116724-09-18 06:56 G	44353885.57	44353885.79	44353886.01	0.0089	0.0007
Earth	116725-03-09 04:03 G	44354057.44	44354057.67	44354057.92	0.0089	0.0033
Moon	116725-03-09 07:24 G	44354057.59	44354057.81	44354058.06	0.0089	0.0037 *
Venus	116725-05-01 20:08 G	44354111.12	44354111.34	44354111.56	0.0089	0.0003
Venus	116725-12-13 09:34 G	44354336.68	44354336.90	44354337.12	0.0089	0.0013
Moon	116726-03-11 12:27 G	44354424.84	44354425.02	44354425.24	0.0089	0.0054
Earth	116726-03-11 15:48 G	44354424.99	44354425.16	44354425.38	0.0089	0.0058 *
Venus	116726-07-26 22:46 G	44354562.24	44354562.45	44354562.67	0.0089	0.0023
Venus	116727-03-09 11:44 G	44354787.80	44354787.99	44354788.21	0.0089	0.0033
Earth	116727-03-14 03:48 G	44354792.58	44354792.66	44354792.80	0.0089	0.0081
Moon	116727-03-14 07:10 G	44354792.74	44354792.80	44354792.93	0.0089	0.0084 *
Venus	116727-10-21 00:56 G	44355013.36	44355013.54	44355013.75	0.0089	0.0042
Venus	116728-06-02 14:22 G	44355238.93	44355239.10	44355239.28	0.0089	0.0052
Venus	116729-01-14 03:34 G	44355464.50	44355464.65	44355464.82	0.0089	0.0062
Venus	116729-08-27 16:32 G	44355690.08	44355690.19	44355690.34	0.0089	0.0072
Venus	116730-04-10 05:58 G	44355915.67	44355915.75	44355915.85	0.0089	0.0081
Mars	116753-07-16 04:32 G	44364413.39	44364413.69	44364414.00	0.0090	0.0002
Jupiter	116783-03-02 03:48 G	44375234.18	44375234.66	44375235.16	0.0089	0.0027
Mercury	116800-03-24 07:24 G	44381466.77	44381466.81	44381466.87	0.0088	0.0082

Mercury	116800-06-20 08:51 G	44381554.82	44381554.87	44381554.96	0.0088	0.0076
Venus	116800-08-29 21:05 G	44381625.34	44381625.38	44381625.45	0.0088	0.0085
Mercury	116800-09-16 10:32 G	44381642.87	44381642.94	44381643.04	0.0088	0.0068
Mercury	116800-12-13 12:12 G	44381730.92	44381731.01	44381731.12	0.0088	0.0061
Mercury	116801-03-11 13:53 G	44381818.97	44381819.08	44381819.20	0.0088	0.0054
Venus	116801-04-12 09:20 G	44381850.80	44381850.89	44381851.02	0.0088	0.0077
Mercury	116801-06-07 15:20 G	44381907.03	44381907.14	44381907.27	0.0088	0.0048
Moon	116801-08-24 11:29 G	44381984.88	44381984.98	44381985.09	0.0088	0.0080
Earth	116801-08-24 11:58 G	44381984.90	44381985.00	44381985.17	0.0088	0.0076 *
Mercury	116801-09-03 17:00 G	44381995.09	44381995.21	44381995.34	0.0088	0.0040
Venus	116801-11-23 22:03 G	44382076.29	44382076.42	44382076.57	0.0088	0.0067
Mercury	116801-11-30 18:41 G	44382083.15	44382083.28	44382083.41	0.0088	0.0033
Mercury	116802-02-26 20:08 G	44382171.21	44382171.34	44382171.48	0.0088	0.0027
Mercury	116802-05-25 21:48 G	44382259.27	44382259.41	44382259.55	0.0088	0.0020
Venus	116802-07-07 10:32 G	44382301.80	44382301.94	44382302.12	0.0088	0.0058
Mercury	116802-08-21 23:15 G	44382347.33	44382347.47	44382347.61	0.0088	0.0013
Moon	116802-08-26 23:29 G	44382352.27	44382352.48	44382352.72	0.0088	0.0048
Earth	116802-08-26 23:15 G	44382352.28	44382352.47	44382352.69	0.0088	0.0053 *
Mercury	116802-11-18 00:56 G	44382435.40	44382435.54	44382435.68	0.0088	0.0006
Mercury	116803-02-14 02:22 G	44382523.46	44382523.60	44382523.74	0.0088	0.0001
Venus	116803-02-17 23:29 G	44382527.30	44382527.48	44382527.67	0.0088	0.0049
Mercury	116803-05-13 03:48 G	44382611.52	44382611.66	44382611.80	0.0088	0.0008
Mercury	116803-08-09 05:29 G	44382699.59	44382699.73	44382699.87	0.0088	0.0014
Earth	116803-08-29 10:03 G	44382719.69	44382719.92	44382720.18	0.0088	0.0030
Moon	116803-08-29 11:44 G	44382719.76	44382719.99	44382720.22	0.0088	0.0035 *
Venus	116803-10-01 11:58 G	44382752.81	44382753.00	44382753.20	0.0088	0.0039
Mercury	116803-11-05 06:56 G	44382787.65	44382787.79	44382787.93	0.0088	0.0021
Mercury	116804-02-01 08:22 G	44382875.72	44382875.85	44382875.98	0.0088	0.0028
Mercury	116804-04-29 09:48 G	44382963.79	44382963.91	44382964.04	0.0088	0.0034
Venus	116804-05-14 00:27 G	44382978.32	44382978.52	44382978.74	0.0088	0.0030

Mercury	116804-07-26 11:15 G	44383051.85	44383051.97	44383052.10	0.0088	0.0041
Moon	116804-08-30 18:41 G	44383087.02	44383087.28	44383087.54	0.0088	0.0003
Earth	116804-08-30 21:20 G	44383087.14	44383087.39	44383087.65	0.0088	0.0007 *
Mercury	116804-10-22 12:41 G	44383139.92	44383140.03	44383140.15	0.0088	0.0048
Venus	116804-12-25 13:10 G	44383203.84	44383204.05	44383204.27	0.0088	0.0021
Mercury	116805-01-18 14:22 G	44383227.99	44383228.10	44383228.21	0.0088	0.0054
Mercury	116805-04-16 15:34 G	44383316.06	44383316.15	44383316.26	0.0088	0.0061
Mercury	116805-07-13 17:15 G	44383404.13	44383404.22	44383404.31	0.0088	0.0067
Venus	116805-08-08 01:53 G	44383429.37	44383429.58	44383429.80	0.0088	0.0011
Earth	116805-09-02 08:08 G	44383454.60	44383454.84	44383455.11	0.0088	0.0016
Moon	116805-09-02 11:29 G	44383454.73	44383454.98	44383455.23	0.0088	0.0011 *
Mercury	116805-10-09 18:27 G	44383492.21	44383492.27	44383492.35	0.0088	0.0074
Mercury	116806-01-05 19:53 G	44383580.29	44383580.33	44383580.40	0.0088	0.0081
Venus	116806-03-21 14:36 G	44383654.89	44383655.11	44383655.33	0.0088	0.0002
Mercury	116806-04-03 21:34 G	44383668.39	44383668.40	44383668.42	0.0088	0.0087
Moon	116806-09-04 15:34 G	44383821.94	44383822.15	44383822.39	0.0088	0.0043
Earth	116806-09-04 19:24 G	44383822.09	44383822.31	44383822.55	0.0088	0.0038 *
Venus	116806-11-02 03:20 G	44383880.42	44383880.64	44383880.86	0.0088	0.0007
Venus	116807-06-15 16:03 G	44384105.96	44384106.17	44384106.39	0.0088	0.0017
Earth	116807-09-07 06:12 G	44384189.59	44384189.76	44384189.96	0.0088	0.0061
Moon	116807-09-07 09:48 G	44384189.71	44384189.91	44384190.11	0.0088	0.0056 *
Venus	116808-01-27 04:46 G	44384331.50	44384331.70	44384331.92	0.0088	0.0026
Venus	116808-09-08 17:15 G	44384557.03	44384557.22	44384557.44	0.0088	0.0036
Earth	116808-09-08 17:15 G	44384557.17	44384557.22	44384557.33	0.0088	0.0084 *
Venus	116809-04-22 05:58 G	44384782.58	44384782.75	44384782.96	0.0088	0.0045
Venus	116809-12-03 18:56 G	44385008.13	44385008.29	44385008.47	0.0088	0.0054
Venus	116810-07-17 08:08 G	44385233.69	44385233.84	44385233.99	0.0088	0.0063
Venus	116811-02-27 20:22 G	44385459.25	44385459.35	44385459.49	0.0088	0.0073
Venus	116811-10-11 09:05 G	44385684.83	44385684.88	44385684.98	0.0088	0.0082
Mars	116835-03-21 13:10 G	44394246.80	44394247.05	44394247.37	0.0088	0.0043

Mars	116837-02-13 13:39 G	44394941.91	44394942.07	44394942.31	0.0088	0.0070
Venus	116884-01-12 05:29 G	44412075.70	44412075.73	44412075.81	0.0089	0.0086
Mercury	116884-02-20 17:00 G	44412115.18	44412115.21	44412115.27	0.0089	0.0085
Mercury	116884-05-18 20:08 G	44412203.26	44412203.34	44412203.44	0.0089	0.0077
Mercury	116884-08-14 23:15 G	44412291.36	44412291.47	44412291.59	0.0089	0.0068
Venus	116884-08-24 19:10 G	44412301.20	44412301.30	44412301.43	0.0089	0.0076
Mercury	116884-11-11 01:53 G	44412379.46	44412379.58	44412379.73	0.0089	0.0059
Mercury	116885-02-07 05:00 G	44412467.58	44412467.71	44412467.87	0.0089	0.0050
Earth	116885-02-27 12:12 G	44412487.86	44412488.01	44412488.17	0.0089	0.0071
Moon	116885-02-27 13:24 G	44412487.94	44412488.06	44412488.22	0.0089	0.0075 *
Venus	116885-04-07 08:51 G	44412526.73	44412526.87	44412527.02	0.0089	0.0066
Mercury	116885-05-06 08:08 G	44412555.69	44412555.84	44412556.01	0.0089	0.0041
Mercury	116885-08-02 11:15 G	44412643.81	44412643.97	44412644.14	0.0089	0.0032
Mercury	116885-10-29 14:22 G	44412731.93	44412732.10	44412732.28	0.0089	0.0023
Venus	116885-11-18 22:32 G	44412752.27	44412752.44	44412752.61	0.0089	0.0057
Mercury	116886-01-25 17:29 G	44412820.05	44412820.23	44412820.41	0.0089	0.0014
Earth	116886-03-02 00:27 G	44412855.32	44412855.52	44412855.75	0.0089	0.0047
Moon	116886-03-02 00:41 G	44412855.33	44412855.53	44412855.77	0.0089	0.0044 *
Mercury	116886-04-23 20:36 G	44412908.18	44412908.36	44412908.54	0.0089	0.0005
Venus	116886-07-02 11:44 G	44412977.82	44412977.99	44412978.19	0.0089	0.0047
Mercury	116886-07-20 23:44 G	44412996.31	44412996.49	44412996.67	0.0089	0.0004
Mercury	116886-10-17 02:51 G	44413084.44	44413084.62	44413084.80	0.0089	0.0013
Mercury	116887-01-13 05:58 G	44413172.57	44413172.75	44413172.92	0.0089	0.0022
Venus	116887-02-13 01:10 G	44413203.36	44413203.55	44413203.76	0.0089	0.0038
Moon	116887-03-04 11:58 G	44413222.74	44413223.00	44413223.25	0.0089	0.0028
Earth	116887-03-04 13:10 G	44413222.81	44413223.05	44413223.30	0.0089	0.0024 *
Mercury	116887-04-11 09:05 G	44413260.71	44413260.88	44413261.05	0.0089	0.0032
Mercury	116887-07-08 11:58 G	44413348.85	44413349.00	44413349.17	0.0089	0.0041
Venus	116887-09-26 14:36 G	44413428.91	44413429.11	44413429.33	0.0089	0.0028
Mercury	116887-10-04 15:05 G	44413436.99	44413437.13	44413437.29	0.0089	0.0050

Mercury	116887-12-31 18:12 G	44413525.14	44413525.26	44413525.41	0.0089	0.0060
Earth	116888-03-06 01:39 G	44413590.31	44413590.57	44413590.83	0.0089	0.0000
Moon	116888-03-06 04:03 G	44413590.42	44413590.67	44413590.92	0.0089	0.0005 *
Mercury	116888-03-28 21:34 G	44413613.29	44413613.40	44413613.52	0.0089	0.0069
Venus	116888-05-09 04:17 G	44413654.46	44413654.68	44413654.90	0.0089	0.0018
Mercury	116888-06-25 00:27 G	44413701.45	44413701.52	44413701.63	0.0089	0.0078
Mercury	116888-09-21 03:48 G	44413789.64	44413789.66	44413789.71	0.0089	0.0087
Venus	116888-12-20 17:44 G	44413880.02	44413880.24	44413880.46	0.0089	0.0008
Moon	116889-03-08 10:03 G	44413957.68	44413957.92	44413958.19	0.0089	0.0020
Earth	116889-03-08 13:39 G	44413957.83	44413958.07	44413958.33	0.0089	0.0024 *
Venus	116889-08-03 07:10 G	44414105.58	44414105.80	44414106.02	0.0089	0.0002
Earth	116890-03-11 01:39 G	44414325.37	44414325.57	44414325.81	0.0089	0.0048
Moon	116890-03-11 05:00 G	44414325.52	44414325.71	44414325.94	0.0089	0.0053 *
Venus	116890-03-16 20:22 G	44414331.13	44414331.35	44414331.57	0.0089	0.0012
Venus	116890-10-28 09:34 G	44414556.69	44414556.90	44414557.12	0.0089	0.0022
Moon	116891-03-13 10:17 G	44414692.78	44414692.93	44414693.12	0.0089	0.0066
Earth	116891-03-13 13:39 G	44414692.95	44414693.07	44414693.25	0.0089	0.0072 *
Venus	116891-06-10 22:46 G	44414782.25	44414782.45	44414782.66	0.0089	0.0031
Venus	116892-01-22 11:58 G	44415007.82	44415008.00	44415008.21	0.0089	0.0041
Venus	116892-09-04 01:24 G	44415233.38	44415233.56	44415233.74	0.0089	0.0051
Venus	116893-04-17 14:22 G	44415458.95	44415459.10	44415459.27	0.0089	0.0061
Venus	116893-11-29 04:03 G	44415684.53	44415684.67	44415684.80	0.0089	0.0070
Venus	116894-07-12 16:46 G	44415910.12	44415910.20	44415910.31	0.0089	0.0080
Venus	116895-02-23 05:58 G	44416135.75	44416135.75	44416135.78	0.0089	0.0089
Mars	116917-03-01 00:56 G	44424176.29	44424176.54	44424176.84	0.0090	0.0042
Mars	116919-01-24 13:53 G	44424870.91	44424871.08	44424871.28	0.0090	0.0071
Jupiter	116949-04-26 23:58 G	44435921.00	44435921.50	44435922.03	0.0089	0.0007
Mercury	116964-09-23 05:29 G	44441549.71	44441549.73	44441549.78	0.0088	0.0085
Venus	116964-12-02 08:22 G	44441619.83	44441619.85	44441619.91	0.0088	0.0086
Mercury	116964-12-20 07:10 G	44441637.75	44441637.80	44441637.88	0.0088	0.0078

Mercury	116965-03-18 08:36 G	44441725.79	44441725.86	44441725.96	0.0088	0.0072
Mercury	116965-06-14 10:17 G	44441813.85	44441813.93	44441814.04	0.0088	0.0064
Venus	116965-07-15 20:51 G	44441845.29	44441845.37	44441845.50	0.0088	0.0077
Earth	116965-08-24 22:17 G	44441885.38	44441885.43	44441885.54	0.0088	0.0084
Moon	116965-08-25 00:27 G	44441885.44	44441885.52	44441885.64	0.0088	0.0082 *
Mercury	116965-09-10 11:58 G	44441901.90	44441902.00	44441902.12	0.0088	0.0057
Mercury	116965-12-07 13:39 G	44441989.96	44441990.07	44441990.19	0.0088	0.0050
Venus	116966-02-26 09:20 G	44442070.78	44442070.89	44442071.05	0.0088	0.0068
Mercury	116966-03-05 15:05 G	44442078.02	44442078.13	44442078.26	0.0088	0.0044
Mercury	116966-06-01 16:46 G	44442166.08	44442166.20	44442166.33	0.0088	0.0036
Moon	116966-08-27 08:22 G	44442252.70	44442252.85	44442253.04	0.0088	0.0064
Earth	116966-08-27 09:34 G	44442252.73	44442252.90	44442253.10	0.0088	0.0061 *
Mercury	116966-08-28 18:27 G	44442254.14	44442254.27	44442254.40	0.0088	0.0029
Venus	116966-10-09 22:17 G	44442296.27	44442296.43	44442296.60	0.0088	0.0059
Mercury	116966-11-24 19:53 G	44442342.20	44442342.33	44442342.47	0.0088	0.0023
Mercury	116967-02-20 21:34 G	44442430.26	44442430.40	44442430.54	0.0088	0.0016
Mercury	116967-05-19 23:00 G	44442518.32	44442518.46	44442518.60	0.0088	0.0009
Venus	116967-05-23 10:46 G	44442521.78	44442521.95	44442522.14	0.0088	0.0050
Mercury	116967-08-16 00:41 G	44442606.39	44442606.53	44442606.67	0.0088	0.0003
Moon	116967-08-29 19:53 G	44442620.10	44442620.33	44442620.58	0.0088	0.0036
Earth	116967-08-29 20:36 G	44442620.13	44442620.36	44442620.60	0.0088	0.0039 *
Mercury	116967-11-12 02:08 G	44442694.45	44442694.59	44442694.73	0.0088	0.0005
Venus	116968-01-03 23:15 G	44442747.29	44442747.47	44442747.68	0.0088	0.0041
Mercury	116968-02-08 03:34 G	44442782.52	44442782.65	44442782.79	0.0088	0.0012
Mercury	116968-05-06 05:00 G	44442870.58	44442870.71	44442870.85	0.0088	0.0019
Mercury	116968-08-02 06:27 G	44442958.64	44442958.77	44442958.91	0.0088	0.0025
Venus	116968-08-16 11:44 G	44442972.80	44442972.99	44442973.21	0.0088	0.0032
Earth	116968-08-31 07:24 G	44442987.56	44442987.81	44442988.07	0.0088	0.0016
Moon	116968-08-31 09:20 G	44442987.66	44442987.89	44442988.15	0.0088	0.0018 *
Mercury	116968-10-29 08:08 G	44443046.71	44443046.84	44443046.97	0.0088	0.0032

Mercury	116969-01-25 09:34 G	44443134.78	44443134.90	44443135.03	0.0088	0.0038
Venus	116969-03-30 00:41 G	44443198.32	44443198.53	44443198.74	0.0088	0.0022
Mercury	116969-04-23 11:00 G	44443222.85	44443222.96	44443223.08	0.0088	0.0045
Mercury	116969-07-20 12:41 G	44443310.91	44443311.03	44443311.14	0.0088	0.0051
Moon	116969-09-02 15:48 G	44443354.90	44443355.16	44443355.42	0.0088	0.0009
Earth	116969-09-02 18:27 G	44443355.02	44443355.27	44443355.53	0.0088	0.0007 *
Mercury	116969-10-16 13:53 G	44443398.98	44443399.08	44443399.19	0.0088	0.0058
Venus	116969-11-10 13:10 G	44443423.83	44443424.05	44443424.27	0.0088	0.0012
Mercury	116970-01-12 15:20 G	44443487.06	44443487.14	44443487.24	0.0088	0.0065
Mercury	116970-04-10 16:46 G	44443575.13	44443575.20	44443575.29	0.0088	0.0071
Venus	116970-06-24 01:53 G	44443649.36	44443649.58	44443649.80	0.0088	0.0003
Mercury	116970-07-07 18:12 G	44443663.21	44443663.26	44443663.33	0.0088	0.0078
Earth	116970-09-05 05:15 G	44443722.48	44443722.72	44443722.97	0.0088	0.0029
Moon	116970-09-05 08:36 G	44443722.63	44443722.86	44443723.12	0.0088	0.0027 *
Mercury	116970-10-03 19:53 G	44443751.30	44443751.33	44443751.37	0.0088	0.0084
Venus	116971-02-04 14:36 G	44443874.89	44443875.11	44443875.33	0.0088	0.0006
Moon	116971-09-07 12:27 G	44444089.84	44444090.02	44444090.25	0.0088	0.0054
Earth	116971-09-07 16:03 G	44444089.98	44444090.17	44444090.40	0.0088	0.0052 *
Venus	116971-09-18 03:05 G	44444100.42	44444100.63	44444100.85	0.0088	0.0016
Venus	116972-04-30 15:34 G	44444325.95	44444326.15	44444326.37	0.0088	0.0025
Earth	116972-09-09 02:51 G	44444457.52	44444457.62	44444457.78	0.0088	0.0075
Moon	116972-09-09 06:12 G	44444457.64	44444457.76	44444457.93	0.0088	0.0072 *
Venus	116972-12-12 04:32 G	44444551.49	44444551.69	44444551.89	0.0088	0.0034
Venus	116973-07-25 17:00 G	44444777.03	44444777.21	44444777.41	0.0088	0.0044
Venus	116974-03-08 05:44 G	44445002.58	44445002.74	44445002.93	0.0088	0.0053
Venus	116974-10-19 18:41 G	44445228.13	44445228.28	44445228.44	0.0088	0.0062
Venus	116975-06-02 07:10 G	44445453.70	44445453.80	44445453.95	0.0088	0.0072
Venus	116976-01-13 19:53 G	44445679.27	44445679.33	44445679.44	0.0088	0.0081
Mars	116998-11-04 01:53 G	44454009.51	44454009.58	44454009.70	0.0088	0.0084
Mars	117000-09-30 01:24 G	44454704.27	44454704.56	44454704.88	0.0088	0.0027



# 118TH MILLENNIUM CE

**This is a list of transits visible from Neptune in the 118th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	117048-04-16 15:34	G	44472070.13	44472070.15	44472070.21	0.0089	0.0087	
Mercury	117048-11-18 15:48	G	44472286.10	44472286.16	44472286.25	0.0089	0.0081	
Venus	117048-11-28 05:29	G	44472295.63	44472295.73	44472295.84	0.0089	0.0078	
Mercury	117049-02-14 18:41	G	44472374.19	44472374.28	44472374.40	0.0089	0.0073	
Moon	117049-02-28 18:12	G	44472388.17	44472388.26	44472388.41	0.0089	0.0079	
Earth	117049-02-28 20:36	G	44472388.26	44472388.36	44472388.48	0.0089	0.0081	*
Mercury	117049-05-13 21:48	G	44472462.30	44472462.41	44472462.54	0.0089	0.0064	
Venus	117049-07-11 18:41	G	44472521.16	44472521.28	44472521.44	0.0089	0.0068	
Mercury	117049-08-10 00:56	G	44472550.40	44472550.54	44472550.69	0.0089	0.0055	
Mercury	117049-11-06 04:03	G	44472638.52	44472638.67	44472638.82	0.0089	0.0046	
Mercury	117050-02-02 06:41	G	44472726.63	44472726.78	44472726.96	0.0089	0.0038	
Venus	117050-02-22 08:08	G	44472746.69	44472746.84	44472747.02	0.0089	0.0059	
Earth	117050-03-03 08:51	G	44472755.69	44472755.87	44472756.09	0.0089	0.0057	
Moon	117050-03-03 08:51	G	44472755.69	44472755.87	44472756.10	0.0089	0.0059	*
Mercury	117050-05-01 09:48	G	44472814.75	44472814.91	44472815.09	0.0089	0.0028	
Mercury	117050-07-28 12:56	G	44472902.87	44472903.04	44472903.23	0.0089	0.0019	
Venus	117050-10-05 21:48	G	44472972.23	44472972.41	44472972.60	0.0089	0.0049	
Mercury	117050-10-24 16:03	G	44472991.00	44472991.17	44472991.36	0.0089	0.0010	

Mercury 117051-01-20 19:24 G 44473079.12 44473079.31 44473079.49 0.0089 0.0002  
 Earth 117051-03-05 21:34 G 44473123.17 44473123.40 44473123.65 0.0089 0.0034  
 Moon 117051-03-05 22:17 G 44473123.21 44473123.43 44473123.67 0.0089 0.0032 \*  
 Mercury 117051-04-18 22:17 G 44473167.25 44473167.43 44473167.61 0.0089 0.0009  
 Venus 117051-05-19 11:29 G 44473197.78 44473197.98 44473198.18 0.0089 0.0039  
 Mercury 117051-07-16 01:24 G 44473255.39 44473255.56 44473255.74 0.0089 0.0017  
 Mercury 117051-10-12 04:32 G 44473343.52 44473343.69 44473343.87 0.0089 0.0027  
 Venus 117051-12-31 00:41 G 44473423.34 44473423.53 44473423.75 0.0089 0.0029  
 Mercury 117052-01-08 07:24 G 44473431.66 44473431.81 44473431.99 0.0089 0.0036  
 Moon 117052-03-07 08:08 G 44473490.57 44473490.84 44473491.10 0.0089 0.0012  
 Earth 117052-03-07 09:48 G 44473490.67 44473490.91 44473491.18 0.0089 0.0011 \*  
 Mercury 117052-04-05 10:32 G 44473519.80 44473519.94 44473520.11 0.0089 0.0045  
 Mercury 117052-07-02 13:39 G 44473607.94 44473608.07 44473608.23 0.0089 0.0055  
 Venus 117052-08-12 14:22 G 44473648.89 44473649.10 44473649.32 0.0089 0.0019  
 Mercury 117052-09-28 17:00 G 44473696.09 44473696.21 44473696.34 0.0089 0.0064  
 Mercury 117052-12-25 20:22 G 44473784.24 44473784.35 44473784.45 0.0089 0.0073  
 Earth 117053-03-09 22:17 G 44473858.18 44473858.43 44473858.69 0.0089 0.0014  
 Moon 117053-03-10 01:39 G 44473858.32 44473858.57 44473858.82 0.0089 0.0015 \*  
 Mercury 117053-03-23 23:00 G 44473872.41 44473872.46 44473872.55 0.0089 0.0083  
 Venus 117053-03-26 03:48 G 44473874.44 44473874.66 44473874.88 0.0089 0.0009  
 Venus 117053-11-06 17:15 G 44474100.00 44474100.22 44474100.44 0.0089 0.0001  
 Moon 117054-03-12 07:10 G 44474225.58 44474225.80 44474226.05 0.0089 0.0036  
 Earth 117054-03-12 10:46 G 44474225.72 44474225.95 44474226.19 0.0089 0.0038 \*  
 Venus 117054-06-20 06:27 G 44474325.56 44474325.77 44474326.00 0.0089 0.0011  
 Venus 117055-01-31 19:53 G 44474551.12 44474551.33 44474551.55 0.0089 0.0020  
 Earth 117055-03-14 22:32 G 44474593.28 44474593.44 44474593.65 0.0089 0.0062  
 Moon 117055-03-15 02:22 G 44474593.44 44474593.60 44474593.80 0.0089 0.0064 \*  
 Venus 117055-09-14 09:20 G 44474776.68 44474776.89 44474777.10 0.0089 0.0030  
 Moon 117056-03-16 08:08 G 44474960.77 44474960.84 44474960.94 0.0089 0.0084  
 Earth 117056-03-16 11:00 G 44474960.89 44474960.96 44474961.05 0.0089 0.0085 \*

Venus	117056-04-26 22:17 G	44475002.25	44475002.43	44475002.64	0.0089	0.0040
Venus	117056-12-08 11:29 G	44475227.82	44475227.98	44475228.18	0.0089	0.0050
Venus	117057-07-22 01:10 G	44475453.39	44475453.55	44475453.71	0.0089	0.0059
Venus	117058-03-04 14:08 G	44475678.96	44475679.09	44475679.24	0.0089	0.0069
Venus	117058-10-16 03:05 G	44475904.55	44475904.63	44475904.75	0.0089	0.0079
Venus	117059-05-29 16:32 G	44476130.16	44476130.19	44476130.24	0.0089	0.0088
Mars	117080-10-14 19:53 G	44483939.28	44483939.33	44483939.46	0.0090	0.0086
Mars	117082-09-09 10:32 G	44484633.65	44484633.94	44484634.23	0.0090	0.0028
Jupiter	117115-06-26 01:39 G	44496610.08	44496610.57	44496611.09	0.0089	0.0017
Venus	117129-03-07 19:24 G	44501614.30	44501614.31	44501614.36	0.0088	0.0087
Mercury	117129-06-22 05:15 G	44501720.67	44501720.72	44501720.78	0.0088	0.0082
Mercury	117129-09-18 06:56 G	44501808.72	44501808.79	44501808.87	0.0088	0.0074
Venus	117129-10-19 07:53 G	44501839.75	44501839.83	44501839.95	0.0088	0.0078
Mercury	117129-12-15 08:36 G	44501896.77	44501896.86	44501896.95	0.0088	0.0067
Mercury	117130-03-13 10:03 G	44501984.82	44501984.92	44501985.03	0.0088	0.0061
Venus	117130-06-01 20:22 G	44502065.24	44502065.35	44502065.51	0.0088	0.0070
Mercury	117130-06-09 11:44 G	44502072.88	44502072.99	44502073.10	0.0088	0.0054
Earth	117130-08-28 18:56 G	44502153.15	44502153.29	44502153.46	0.0088	0.0071
Moon	117130-08-28 20:08 G	44502153.22	44502153.34	44502153.52	0.0088	0.0073 *
Mercury	117130-09-05 13:24 G	44502160.94	44502161.06	44502161.18	0.0088	0.0047
Mercury	117130-12-02 14:36 G	44502249.00	44502249.11	44502249.25	0.0088	0.0041
Venus	117131-01-13 09:34 G	44502290.74	44502290.90	44502291.06	0.0088	0.0060
Mercury	117131-02-28 16:17 G	44502337.06	44502337.18	44502337.32	0.0088	0.0033
Mercury	117131-05-27 17:58 G	44502425.12	44502425.25	44502425.39	0.0088	0.0026
Mercury	117131-08-23 19:39 G	44502513.18	44502513.32	44502513.46	0.0088	0.0019
Venus	117131-08-26 21:48 G	44502516.24	44502516.41	44502516.60	0.0088	0.0051
Earth	117131-08-31 05:44 G	44502520.55	44502520.74	44502520.98	0.0088	0.0049
Moon	117131-08-31 06:12 G	44502520.56	44502520.76	44502520.98	0.0088	0.0046 *
Mercury	117131-11-19 21:05 G	44502601.24	44502601.38	44502601.52	0.0088	0.0012
Mercury	117132-02-15 22:46 G	44502689.31	44502689.45	44502689.59	0.0088	0.0006

Venus	117132-04-08 10:17 G	44502741.75	44502741.93	44502742.13	0.0088	0.0041
Mercury	117132-05-14 00:12 G	44502777.37	44502777.51	44502777.65	0.0088	0.0002
Mercury	117132-08-10 01:39 G	44502865.44	44502865.57	44502865.71	0.0088	0.0009
Moon	117132-09-01 15:05 G	44502887.90	44502888.13	44502888.40	0.0088	0.0028
Earth	117132-09-01 17:00 G	44502887.98	44502888.21	44502888.47	0.0088	0.0025 *
Mercury	117132-11-06 03:20 G	44502953.50	44502953.64	44502953.78	0.0088	0.0015
Venus	117132-11-19 22:46 G	44502967.26	44502967.45	44502967.67	0.0088	0.0032
Mercury	117133-02-02 04:46 G	44503041.57	44503041.70	44503041.84	0.0088	0.0022
Mercury	117133-05-01 06:12 G	44503129.63	44503129.76	44503129.90	0.0088	0.0028
Venus	117133-07-03 11:29 G	44503192.78	44503192.98	44503193.20	0.0088	0.0023
Mercury	117133-07-28 07:39 G	44503217.70	44503217.82	44503217.95	0.0088	0.0035
Earth	117133-09-04 04:03 G	44503255.41	44503255.67	44503255.93	0.0088	0.0003
Moon	117133-09-04 06:27 G	44503255.52	44503255.77	44503256.02	0.0088	0.0000 *
Mercury	117133-10-24 09:05 G	44503305.77	44503305.88	44503306.01	0.0088	0.0042
Mercury	117134-01-20 10:46 G	44503393.83	44503393.95	44503394.07	0.0088	0.0048
Venus	117134-02-14 00:27 G	44503418.30	44503418.52	44503418.73	0.0088	0.0013
Mercury	117134-04-18 11:58 G	44503481.90	44503482.00	44503482.12	0.0088	0.0055
Mercury	117134-07-15 13:24 G	44503569.98	44503570.06	44503570.17	0.0088	0.0062
Moon	117134-09-06 11:29 G	44503622.73	44503622.98	44503623.24	0.0088	0.0018
Earth	117134-09-06 15:05 G	44503622.88	44503623.13	44503623.38	0.0088	0.0020 *
Venus	117134-09-27 12:56 G	44503643.82	44503644.04	44503644.26	0.0088	0.0004
Mercury	117134-10-11 15:05 G	44503658.05	44503658.13	44503658.22	0.0088	0.0068
Mercury	117135-01-07 16:17 G	44503746.12	44503746.18	44503746.27	0.0088	0.0075
Mercury	117135-04-05 17:58 G	44503834.21	44503834.25	44503834.31	0.0088	0.0081
Venus	117135-05-11 01:24 G	44503869.34	44503869.56	44503869.78	0.0088	0.0006
Mercury	117135-07-02 19:24 G	44503922.31	44503922.31	44503922.33	0.0088	0.0088
Earth	117135-09-09 01:39 G	44503990.36	44503990.57	44503990.81	0.0088	0.0043
Moon	117135-09-09 05:15 G	44503990.52	44503990.72	44503990.96	0.0088	0.0046 *
Venus	117135-12-22 13:53 G	44504094.87	44504095.08	44504095.31	0.0088	0.0015
Venus	117136-08-04 02:36 G	44504320.41	44504320.61	44504320.83	0.0088	0.0024

Moon	117136-09-10 09:34 G	44504357.74	44504357.90	44504358.09	0.0088	0.0063
Earth	117136-09-10 12:27 G	44504357.88	44504358.02	44504358.22	0.0088	0.0066 *
Venus	117137-03-17 15:20 G	44504545.94	44504546.14	44504546.35	0.0088	0.0033
Venus	117137-10-29 03:34 G	44504771.48	44504771.65	44504771.86	0.0088	0.0043
Venus	117138-06-11 16:32 G	44504997.03	44504997.19	44504997.38	0.0088	0.0052
Venus	117139-01-23 05:29 G	44505222.58	44505222.73	44505222.89	0.0088	0.0061
Venus	117139-09-05 17:44 G	44505448.14	44505448.24	44505448.40	0.0088	0.0071
Venus	117140-04-18 06:41 G	44505673.71	44505673.78	44505673.89	0.0088	0.0080
Mars	117164-05-15 10:46 G	44514466.65	44514466.95	44514467.28	0.0088	0.0017
Venus	117212-07-20 01:53 G	44532064.57	44532064.58	44532064.61	0.0089	0.0089
Moon	117213-03-01 07:39 G	44532288.78	44532288.82	44532288.87	0.0089	0.0088
Venus	117213-03-02 15:05 G	44532290.05	44532290.13	44532290.25	0.0089	0.0079
Mercury	117213-05-20 11:44 G	44532368.95	44532368.99	44532369.05	0.0089	0.0085
Mercury	117213-08-16 14:51 G	44532457.03	44532457.12	44532457.21	0.0089	0.0077
Venus	117213-10-14 04:46 G	44532515.57	44532515.70	44532515.85	0.0089	0.0069
Mercury	117213-11-12 17:29 G	44532545.13	44532545.23	44532545.36	0.0089	0.0068
Mercury	117214-02-08 20:36 G	44532633.23	44532633.36	44532633.50	0.0089	0.0059
Moon	117214-03-03 17:15 G	44532656.07	44532656.22	44532656.37	0.0089	0.0071
Earth	117214-03-03 17:15 G	44532656.07	44532656.22	44532656.41	0.0089	0.0068 *
Mercury	117214-05-07 23:29 G	44532721.34	44532721.48	44532721.64	0.0089	0.0051
Venus	117214-05-27 18:27 G	44532741.11	44532741.27	44532741.43	0.0089	0.0060
Mercury	117214-08-04 02:36 G	44532809.46	44532809.61	44532809.77	0.0089	0.0042
Mercury	117214-10-31 05:44 G	44532897.57	44532897.74	44532897.91	0.0089	0.0033
Venus	117215-01-08 07:39 G	44532966.65	44532966.82	44532967.02	0.0089	0.0050
Mercury	117215-01-27 08:51 G	44532985.69	44532985.87	44532986.04	0.0089	0.0024
Moon	117215-03-06 05:29 G	44533023.49	44533023.73	44533023.97	0.0089	0.0041
Earth	117215-03-06 05:58 G	44533023.53	44533023.75	44533023.98	0.0089	0.0044 *
Mercury	117215-04-25 11:44 G	44533073.82	44533073.99	44533074.17	0.0089	0.0015
Mercury	117215-07-22 14:51 G	44533161.94	44533162.12	44533162.30	0.0089	0.0006
Venus	117215-08-21 21:05 G	44533192.20	44533192.38	44533192.59	0.0089	0.0041

Mercury	117215-10-18 17:58 G	44533250.07	44533250.25	44533250.43	0.0089	0.0003
Mercury	117216-01-14 21:05 G	44533338.20	44533338.38	44533338.56	0.0089	0.0012
Earth	117216-03-07 18:12 G	44533391.02	44533391.26	44533391.52	0.0089	0.0020
Moon	117216-03-07 19:53 G	44533391.10	44533391.33	44533391.58	0.0089	0.0023 *
Venus	117216-04-03 10:46 G	44533417.75	44533417.95	44533418.16	0.0089	0.0030
Mercury	117216-04-12 00:12 G	44533426.33	44533426.51	44533426.68	0.0089	0.0022
Mercury	117216-07-09 02:51 G	44533514.47	44533514.62	44533514.81	0.0089	0.0032
Mercury	117216-10-05 05:58 G	44533602.60	44533602.75	44533602.93	0.0089	0.0041
Venus	117216-11-15 00:27 G	44533643.30	44533643.52	44533643.73	0.0089	0.0021
Mercury	117217-01-01 09:05 G	44533690.74	44533690.88	44533691.05	0.0089	0.0050
Moon	117217-03-10 03:48 G	44533758.40	44533758.66	44533758.92	0.0089	0.0008
Earth	117217-03-10 06:56 G	44533758.53	44533758.79	44533759.05	0.0089	0.0004 *
Mercury	117217-03-30 12:27 G	44533778.89	44533779.02	44533779.16	0.0089	0.0058
Mercury	117217-06-26 15:34 G	44533867.04	44533867.15	44533867.28	0.0089	0.0068
Venus	117217-06-28 13:39 G	44533868.86	44533869.07	44533869.30	0.0089	0.0011
Mercury	117217-09-22 18:27 G	44533955.20	44533955.27	44533955.38	0.0089	0.0077
Mercury	117217-12-19 21:34 G	44534043.38	44534043.40	44534043.47	0.0089	0.0087
Venus	117218-02-09 03:20 G	44534094.42	44534094.64	44534094.86	0.0089	0.0001
Earth	117218-03-12 19:10 G	44534126.06	44534126.30	44534126.55	0.0089	0.0028
Moon	117218-03-12 22:32 G	44534126.20	44534126.44	44534126.69	0.0089	0.0025 *
Venus	117218-09-22 16:32 G	44534319.98	44534320.19	44534320.42	0.0089	0.0009
Moon	117219-03-15 03:34 G	44534493.47	44534493.65	44534493.87	0.0089	0.0055
Earth	117219-03-15 07:10 G	44534493.61	44534493.80	44534494.03	0.0089	0.0052 *
Venus	117219-05-06 05:58 G	44534545.54	44534545.75	44534545.97	0.0089	0.0019
Venus	117219-12-17 19:24 G	44534771.11	44534771.31	44534771.52	0.0089	0.0028
Earth	117220-03-16 19:39 G	44534861.19	44534861.32	44534861.47	0.0089	0.0075
Moon	117220-03-16 22:32 G	44534861.30	44534861.44	44534861.62	0.0089	0.0072 *
Venus	117220-07-30 08:36 G	44534996.67	44534996.86	44534997.07	0.0089	0.0038
Venus	117221-03-12 22:03 G	44535222.24	44535222.42	44535222.61	0.0089	0.0048
Venus	117221-10-24 11:00 G	44535447.81	44535447.96	44535448.14	0.0089	0.0058

Venus	117222-06-07 00:12 G	44535673.38	44535673.51	44535673.67	0.0089	0.0067
Venus	117223-01-18 13:39 G	44535898.97	44535899.07	44535899.19	0.0089	0.0077
Venus	117223-09-01 02:36 G	44536124.58	44536124.61	44536124.69	0.0089	0.0087
Mars	117246-04-25 05:29 G	44544396.44	44544396.73	44544397.04	0.0090	0.0017
Jupiter	117281-08-25 14:36 G	44557302.68	44557303.11	44557303.60	0.0089	0.0041
Mercury	117293-12-21 03:05 G	44561803.60	44561803.63	44561803.67	0.0088	0.0085
Venus	117294-01-20 18:56 G	44561834.21	44561834.29	44561834.40	0.0088	0.0079
Mercury	117294-03-19 04:32 G	44561891.64	44561891.69	44561891.77	0.0088	0.0079
Mercury	117294-06-15 06:12 G	44561979.69	44561979.76	44561979.85	0.0088	0.0071
Moon	117294-08-28 02:51 G	44562053.50	44562053.62	44562053.75	0.0088	0.0076
Earth	117294-08-28 04:03 G	44562053.59	44562053.67	44562053.81	0.0088	0.0080 *
Venus	117294-09-03 07:24 G	44562059.70	44562059.81	44562059.96	0.0088	0.0070
Mercury	117294-09-11 07:53 G	44562067.74	44562067.83	44562067.94	0.0088	0.0064
Mercury	117294-12-08 09:34 G	44562155.80	44562155.90	44562156.01	0.0088	0.0057
Mercury	117295-03-06 11:15 G	44562243.86	44562243.97	44562244.09	0.0088	0.0050
Venus	117295-04-16 19:53 G	44562285.19	44562285.33	44562285.51	0.0088	0.0061
Mercury	117295-06-02 12:41 G	44562331.92	44562332.03	44562332.16	0.0088	0.0044
Mercury	117295-08-29 14:22 G	44562419.98	44562420.10	44562420.23	0.0088	0.0036
Earth	117295-08-30 15:20 G	44562420.96	44562421.14	44562421.35	0.0088	0.0057
Moon	117295-08-30 15:34 G	44562420.99	44562421.15	44562421.36	0.0088	0.0062 *
Mercury	117295-11-25 16:03 G	44562508.04	44562508.17	44562508.30	0.0088	0.0029
Venus	117295-11-28 08:51 G	44562510.69	44562510.87	44562511.05	0.0088	0.0052
Mercury	117296-02-21 17:29 G	44562596.10	44562596.23	44562596.37	0.0088	0.0023
Mercury	117296-05-19 19:10 G	44562684.16	44562684.30	44562684.44	0.0088	0.0016
Venus	117296-07-10 21:20 G	44562736.21	44562736.39	44562736.59	0.0088	0.0042
Mercury	117296-08-15 20:36 G	44562772.23	44562772.36	44562772.51	0.0088	0.0010
Earth	117296-09-01 02:22 G	44562788.37	44562788.60	44562788.85	0.0088	0.0035
Moon	117296-09-01 03:34 G	44562788.43	44562788.65	44562788.90	0.0088	0.0030 *
Mercury	117296-11-11 22:17 G	44562860.29	44562860.43	44562860.57	0.0088	0.0002
Mercury	117297-02-07 23:44 G	44562948.35	44562948.49	44562948.63	0.0088	0.0005

Venus	117297-02-21 09:48 G	44562961.72	44562961.91	44562962.12	0.0088	0.0033
Mercury	117297-05-07 01:24 G	44563036.42	44563036.56	44563036.70	0.0088	0.0012
Mercury	117297-08-03 02:51 G	44563124.48	44563124.62	44563124.76	0.0088	0.0018
Moon	117297-09-03 11:15 G	44563155.71	44563155.97	44563156.24	0.0088	0.0016
Earth	117297-09-03 13:10 G	44563155.81	44563156.05	44563156.32	0.0088	0.0012 *
Venus	117297-10-04 22:17 G	44563187.23	44563187.43	44563187.65	0.0088	0.0024
Mercury	117297-10-30 04:17 G	44563212.55	44563212.68	44563212.82	0.0088	0.0025
Mercury	117298-01-26 05:44 G	44563300.62	44563300.74	44563300.88	0.0088	0.0032
Mercury	117298-04-24 07:24 G	44563388.68	44563388.81	44563388.93	0.0088	0.0038
Venus	117298-05-18 11:15 G	44563412.75	44563412.97	44563413.18	0.0088	0.0015
Mercury	117298-07-21 08:36 G	44563476.75	44563476.86	44563476.99	0.0088	0.0046
Earth	117298-09-06 00:12 G	44563523.26	44563523.51	44563523.77	0.0088	0.0011
Moon	117298-09-06 03:20 G	44563523.40	44563523.64	44563523.90	0.0088	0.0016 *
Mercury	117298-10-17 10:03 G	44563564.82	44563564.92	44563565.05	0.0088	0.0052
Venus	117298-12-29 23:44 G	44563638.27	44563638.49	44563638.71	0.0088	0.0005
Mercury	117299-01-13 11:44 G	44563652.89	44563652.99	44563653.10	0.0088	0.0058
Mercury	117299-04-11 13:10 G	44563740.96	44563741.05	44563741.15	0.0088	0.0065
Mercury	117299-07-08 14:51 G	44563829.04	44563829.12	44563829.20	0.0088	0.0071
Venus	117299-08-12 12:27 G	44563863.80	44563864.02	44563864.23	0.0088	0.0005
Moon	117299-09-08 07:24 G	44563890.58	44563890.81	44563891.07	0.0088	0.0030
Earth	117299-09-08 11:00 G	44563890.74	44563890.96	44563891.21	0.0088	0.0034 *
Mercury	117299-10-04 16:03 G	44563917.12	44563917.17	44563917.24	0.0088	0.0078
Mercury	117299-12-31 17:44 G	44564005.21	44564005.24	44564005.28	0.0088	0.0084
Venus	117300-03-26 00:56 G	44564089.32	44564089.54	44564089.76	0.0088	0.0013
Earth	117300-09-10 22:03 G	44564258.23	44564258.42	44564258.62	0.0088	0.0056
Moon	117300-09-11 01:10 G	44564258.38	44564258.55	44564258.76	0.0088	0.0061 *
Venus	117300-11-06 13:10 G	44564314.85	44564315.05	44564315.27	0.0088	0.0023
Venus	117301-06-20 01:53 G	44564540.39	44564540.58	44564540.80	0.0088	0.0032
Moon	117301-09-13 05:58 G	44564625.63	44564625.75	44564625.89	0.0088	0.0074
Earth	117301-09-13 08:36 G	44564625.77	44564625.86	44564625.99	0.0088	0.0079 *



Venus	117302-01-31 14:36 G	44564765.92	44564766.11	44564766.31	0.0088	0.0041
Venus	117302-09-14 02:51 G	44564991.46	44564991.62	44564991.82	0.0088	0.0051
Venus	117303-04-27 15:34 G	44565217.01	44565217.15	44565217.33	0.0088	0.0060
Venus	117303-12-09 04:17 G	44565442.56	44565442.68	44565442.83	0.0088	0.0069
Venus	117304-07-21 17:15 G	44565668.14	44565668.22	44565668.33	0.0088	0.0078
Venus	117305-03-04 06:12 G	44565893.75	44565893.76	44565893.79	0.0088	0.0087
Mars	117327-12-29 23:00 G	44574229.24	44574229.46	44574229.71	0.0088	0.0059
Mars	117329-11-23 19:53 G	44574924.09	44574924.33	44574924.60	0.0088	0.0052
Venus	117377-06-05 00:12 G	44592284.44	44592284.51	44592284.63	0.0089	0.0081
Venus	117378-01-16 13:53 G	44592509.97	44592510.08	44592510.23	0.0089	0.0072
Mercury	117378-02-15 10:03 G	44592539.87	44592539.92	44592540.00	0.0089	0.0082
Earth	117378-03-04 00:56 G	44592556.43	44592556.54	44592556.68	0.0089	0.0077
Moon	117378-03-04 02:08 G	44592556.45	44592556.59	44592556.76	0.0089	0.0073 *
Mercury	117378-05-14 12:56 G	44592627.96	44592628.04	44592628.16	0.0089	0.0074
Mercury	117378-08-10 16:03 G	44592716.06	44592716.17	44592716.30	0.0089	0.0065
Venus	117378-08-30 03:34 G	44592735.50	44592735.65	44592735.82	0.0089	0.0062
Mercury	117378-11-06 19:10 G	44592804.16	44592804.30	44592804.44	0.0089	0.0056
Mercury	117379-02-02 21:48 G	44592892.28	44592892.41	44592892.58	0.0089	0.0048
Earth	117379-03-06 13:10 G	44592923.86	44592924.05	44592924.27	0.0089	0.0054
Moon	117379-03-06 13:10 G	44592923.88	44592924.05	44592924.25	0.0089	0.0058 *
Venus	117379-04-12 16:46 G	44592961.04	44592961.20	44592961.40	0.0089	0.0052
Mercury	117379-05-02 00:56 G	44592980.39	44592980.54	44592980.71	0.0089	0.0038
Mercury	117379-07-29 04:03 G	44593068.51	44593068.67	44593068.85	0.0089	0.0029
Mercury	117379-10-25 07:10 G	44593156.63	44593156.80	44593156.98	0.0089	0.0020
Venus	117379-11-24 06:27 G	44593186.59	44593186.77	44593186.98	0.0089	0.0042
Mercury	117380-01-21 10:17 G	44593244.75	44593244.93	44593245.11	0.0089	0.0011
Moon	117380-03-08 00:41 G	44593291.28	44593291.53	44593291.80	0.0089	0.0026
Earth	117380-03-08 01:39 G	44593291.34	44593291.57	44593291.83	0.0089	0.0031 *
Mercury	117380-04-18 13:10 G	44593332.87	44593333.05	44593333.23	0.0089	0.0003
Venus	117380-07-06 20:08 G	44593412.14	44593412.34	44593412.55	0.0089	0.0032

Mercury	117380-07-15 16:17 G	44593421.00	44593421.18	44593421.36	0.0089	0.0007
Mercury	117380-10-11 19:10 G	44593509.13	44593509.30	44593509.49	0.0089	0.0016
Mercury	117381-01-07 22:17 G	44593597.26	44593597.43	44593597.61	0.0089	0.0025
Venus	117381-02-17 09:34 G	44593637.69	44593637.90	44593638.12	0.0089	0.0023
Earth	117381-03-10 14:22 G	44593658.84	44593659.10	44593659.36	0.0089	0.0007
Moon	117381-03-10 16:46 G	44593658.96	44593659.20	44593659.46	0.0089	0.0012 *
Mercury	117381-04-06 01:24 G	44593685.40	44593685.56	44593685.73	0.0089	0.0034
Mercury	117381-07-03 04:32 G	44593773.54	44593773.69	44593773.85	0.0089	0.0043
Mercury	117381-09-29 07:39 G	44593861.68	44593861.82	44593861.97	0.0089	0.0052
Venus	117381-09-30 23:15 G	44593863.25	44593863.47	44593863.68	0.0089	0.0013
Mercury	117381-12-26 10:46 G	44593949.83	44593949.95	44593950.09	0.0089	0.0062
Moon	117382-03-12 23:29 G	44594026.23	44594026.48	44594026.74	0.0089	0.0022
Earth	117382-03-13 02:36 G	44594026.36	44594026.61	44594026.87	0.0089	0.0017 *
Mercury	117382-03-24 13:39 G	44594037.98	44594038.07	44594038.20	0.0089	0.0071
Venus	117382-05-14 12:27 G	44594088.80	44594089.02	44594089.25	0.0089	0.0003
Mercury	117382-06-20 16:46 G	44594126.14	44594126.20	44594126.30	0.0089	0.0081
Venus	117382-12-26 02:08 G	44594314.37	44594314.59	44594314.81	0.0089	0.0007
Earth	117383-03-15 14:22 G	44594393.90	44594394.10	44594394.35	0.0089	0.0042
Moon	117383-03-15 18:41 G	44594394.04	44594394.28	44594394.51	0.0089	0.0036 *
Venus	117383-08-08 15:34 G	44594539.93	44594540.15	44594540.37	0.0089	0.0017
Moon	117384-03-16 23:44 G	44594761.35	44594761.49	44594761.67	0.0089	0.0069
Earth	117384-03-17 03:05 G	44594761.47	44594761.63	44594761.83	0.0089	0.0065 *
Venus	117384-03-21 04:46 G	44594765.50	44594765.70	44594765.92	0.0089	0.0027
Venus	117384-11-01 17:58 G	44594991.06	44594991.25	44594991.46	0.0089	0.0037
Earth	117385-03-19 15:05 G	44595129.12	44595129.13	44595129.21	0.0089	0.0089
Moon	117385-03-19 17:58 G	44595129.19	44595129.25	44595129.37	0.0089	0.0084 *
Venus	117385-06-15 07:10 G	44595216.63	44595216.80	44595217.01	0.0089	0.0047
Venus	117386-01-26 21:05 G	44595442.21	44595442.38	44595442.55	0.0089	0.0056
Venus	117386-09-09 10:03 G	44595667.79	44595667.92	44595668.08	0.0089	0.0066
Venus	117387-04-22 23:00 G	44595893.37	44595893.46	44595893.61	0.0089	0.0076

Venus	117387-12-04 12:41 G	44596118.97	44596119.03	44596119.11	0.0089	0.0085
Mars	117409-12-09 19:39 G	44604159.12	44604159.32	44604159.56	0.0090	0.0063
Mars	117411-11-04 12:27 G	44604853.79	44604854.02	44604854.29	0.0090	0.0052
Jupiter	117447-10-27 07:10 G	44617994.48	44617994.80	44617995.21	0.0089	0.0063
Venus	117458-04-26 05:29 G	44621828.66	44621828.73	44621828.83	0.0088	0.0081
Mercury	117458-09-19 02:22 G	44621974.56	44621974.60	44621974.66	0.0088	0.0082
Venus	117458-12-07 17:58 G	44622054.14	44622054.25	44622054.39	0.0088	0.0072
Mercury	117458-12-16 04:03 G	44622062.61	44622062.67	44622062.75	0.0088	0.0075
Mercury	117459-03-14 05:44 G	44622150.66	44622150.74	44622150.84	0.0088	0.0068
Mercury	117459-06-10 07:24 G	44622238.71	44622238.81	44622238.92	0.0088	0.0061
Venus	117459-07-21 06:27 G	44622279.64	44622279.77	44622279.94	0.0088	0.0063
Moon	117459-08-31 22:46 G	44622321.30	44622321.45	44622321.64	0.0088	0.0064
Earth	117459-09-01 00:27 G	44622321.35	44622321.52	44622321.69	0.0088	0.0067 *
Mercury	117459-09-06 08:51 G	44622326.77	44622326.87	44622326.99	0.0088	0.0055
Mercury	117459-12-03 10:32 G	44622414.83	44622414.94	44622415.07	0.0088	0.0047
Mercury	117460-02-29 12:12 G	44622502.89	44622503.01	44622503.14	0.0088	0.0040
Venus	117460-03-02 18:56 G	44622505.14	44622505.29	44622505.49	0.0088	0.0054
Mercury	117460-05-27 13:53 G	44622590.95	44622591.08	44622591.21	0.0088	0.0033
Mercury	117460-08-23 15:34 G	44622679.01	44622679.15	44622679.28	0.0088	0.0026
Moon	117460-09-02 10:17 G	44622688.72	44622688.93	44622689.18	0.0088	0.0046
Earth	117460-09-02 11:00 G	44622688.75	44622688.96	44622689.20	0.0088	0.0044 *
Venus	117460-10-14 07:39 G	44622730.65	44622730.82	44622731.03	0.0088	0.0044
Mercury	117460-11-19 17:00 G	44622767.08	44622767.21	44622767.35	0.0088	0.0020
Mercury	117461-02-15 18:27 G	44622855.14	44622855.27	44622855.42	0.0088	0.0014
Mercury	117461-05-14 20:08 G	44622943.20	44622943.34	44622943.48	0.0088	0.0006
Venus	117461-05-27 20:36 G	44622956.16	44622956.36	44622956.56	0.0088	0.0034
Mercury	117461-08-10 21:48 G	44623031.27	44623031.41	44623031.55	0.0088	0.0002
Earth	117461-09-04 22:17 G	44623056.18	44623056.43	44623056.68	0.0088	0.0021
Moon	117461-09-04 23:29 G	44623056.25	44623056.48	44623056.73	0.0088	0.0019 *
Mercury	117461-11-06 23:15 G	44623119.33	44623119.47	44623119.61	0.0088	0.0008

Venus	117462-01-08 09:05 G	44623181.68	44623181.88	44623182.10	0.0088	0.0025
Mercury	117462-02-03 00:41 G	44623207.40	44623207.53	44623207.67	0.0088	0.0015
Mercury	117462-05-02 02:22 G	44623295.46	44623295.60	44623295.74	0.0088	0.0021
Mercury	117462-07-29 03:48 G	44623383.53	44623383.66	44623383.80	0.0088	0.0028
Venus	117462-08-21 21:34 G	44623407.19	44623407.40	44623407.63	0.0088	0.0016
Moon	117462-09-07 06:27 G	44623423.51	44623423.77	44623424.04	0.0088	0.0002
Earth	117462-09-07 09:20 G	44623423.64	44623423.89	44623424.15	0.0088	0.0002 *
Mercury	117462-10-25 05:15 G	44623471.60	44623471.72	44623471.85	0.0088	0.0035
Mercury	117463-01-21 06:56 G	44623559.67	44623559.79	44623559.91	0.0088	0.0041
Venus	117463-04-04 10:17 G	44623632.71	44623632.93	44623633.15	0.0088	0.0006
Mercury	117463-04-19 08:22 G	44623647.74	44623647.85	44623647.97	0.0088	0.0048
Mercury	117463-07-16 09:34 G	44623735.81	44623735.90	44623736.02	0.0088	0.0055
Earth	117463-09-09 20:08 G	44623791.10	44623791.34	44623791.60	0.0088	0.0025
Moon	117463-09-09 23:44 G	44623791.25	44623791.49	44623791.74	0.0088	0.0026 *
Mercury	117463-10-12 11:29 G	44623823.88	44623823.98	44623824.08	0.0088	0.0061
Venus	117463-11-15 23:00 G	44623858.24	44623858.46	44623858.68	0.0088	0.0003
Mercury	117464-01-08 12:41 G	44623911.95	44623912.03	44623912.13	0.0088	0.0068
Mercury	117464-04-05 14:08 G	44624000.03	44624000.09	44624000.17	0.0088	0.0075
Venus	117464-06-28 11:44 G	44624083.77	44624083.99	44624084.21	0.0088	0.0012
Mercury	117464-07-02 15:34 G	44624088.11	44624088.15	44624088.21	0.0088	0.0081
Moon	117464-09-11 03:34 G	44624158.44	44624158.65	44624158.88	0.0088	0.0044
Earth	117464-09-11 06:56 G	44624158.59	44624158.79	44624159.02	0.0088	0.0047 *
Mercury	117464-09-28 17:15 G	44624176.22	44624176.22	44624176.23	0.0088	0.0088
Venus	117465-02-08 23:58 G	44624309.30	44624309.50	44624309.73	0.0088	0.0022
Earth	117465-09-13 17:29 G	44624526.10	44624526.23	44624526.42	0.0088	0.0070
Moon	117465-09-13 21:34 G	44624526.26	44624526.40	44624526.55	0.0088	0.0072 *
Venus	117465-09-22 12:27 G	44624534.83	44624535.02	44624535.24	0.0088	0.0031
Venus	117466-05-06 01:10 G	44624760.36	44624760.55	44624760.75	0.0088	0.0040
Venus	117466-12-17 13:53 G	44624985.90	44624986.08	44624986.27	0.0088	0.0049
Venus	117467-07-31 02:08 G	44625211.45	44625211.59	44625211.78	0.0088	0.0059

Venus	117468-03-12 14:51 G	44625437.00	44625437.12	44625437.28	0.0088	0.0068
Venus	117468-10-24 03:34 G	44625662.56	44625662.65	44625662.77	0.0088	0.0077
Venus	117469-06-06 16:32 G	44625888.16	44625888.19	44625888.24	0.0088	0.0086
Mars	117493-07-09 06:56 G	44634686.48	44634686.79	44634687.11	0.0088	0.0008
Venus	117541-09-08 09:48 G	44652278.84	44652278.91	44652279.00	0.0089	0.0082
Earth	117542-03-05 07:53 G	44652456.82	44652456.83	44652456.90	0.0089	0.0088
Venus	117542-04-21 23:00 G	44652504.36	44652504.46	44652504.61	0.0089	0.0073
Mercury	117542-08-18 05:29 G	44652622.71	44652622.73	44652622.79	0.0089	0.0087
Mercury	117542-11-14 08:36 G	44652710.79	44652710.86	44652710.95	0.0089	0.0078
Venus	117542-12-03 12:41 G	44652729.89	44652730.03	44652730.20	0.0089	0.0064
Mercury	117543-02-10 11:44 G	44652798.88	44652798.99	44652799.10	0.0089	0.0070
Earth	117543-03-07 20:22 G	44652824.19	44652824.35	44652824.55	0.0089	0.0065
Moon	117543-03-07 21:05 G	44652824.21	44652824.38	44652824.59	0.0089	0.0063 *
Mercury	117543-05-09 14:22 G	44652886.99	44652887.10	44652887.24	0.0089	0.0061
Venus	117543-07-17 02:22 G	44652955.43	44652955.60	44652955.79	0.0089	0.0054
Mercury	117543-08-05 17:29 G	44652975.09	44652975.23	44652975.38	0.0089	0.0052
Mercury	117543-11-01 20:22 G	44653063.21	44653063.35	44653063.52	0.0089	0.0044
Mercury	117544-01-28 23:29 G	44653151.32	44653151.48	44653151.65	0.0089	0.0035
Venus	117544-02-27 15:34 G	44653180.98	44653181.15	44653181.36	0.0089	0.0044
Earth	117544-03-09 08:51 G	44653191.66	44653191.87	44653192.12	0.0089	0.0041
Moon	117544-03-09 09:20 G	44653191.69	44653191.89	44653192.12	0.0089	0.0043 *
Mercury	117544-04-26 02:22 G	44653239.44	44653239.60	44653239.78	0.0089	0.0026
Mercury	117544-07-23 05:29 G	44653327.56	44653327.73	44653327.91	0.0089	0.0017
Venus	117544-10-10 05:00 G	44653406.52	44653406.71	44653406.93	0.0089	0.0035
Mercury	117544-10-19 08:36 G	44653415.68	44653415.86	44653416.04	0.0089	0.0008
Mercury	117545-01-15 11:29 G	44653503.80	44653503.98	44653504.16	0.0089	0.0003
Moon	117545-03-11 18:56 G	44653559.04	44653559.29	44653559.57	0.0089	0.0017
Earth	117545-03-11 21:20 G	44653559.15	44653559.39	44653559.66	0.0089	0.0018 *
Mercury	117545-04-13 14:36 G	44653591.93	44653592.11	44653592.29	0.0089	0.0010
Venus	117545-05-23 18:41 G	44653632.07	44653632.28	44653632.50	0.0089	0.0024

Mercury	117545-07-10 17:29 G	44653680.06	44653680.23	44653680.41	0.0089	0.0019
Mercury	117545-10-06 20:36 G	44653768.19	44653768.36	44653768.54	0.0089	0.0028
Mercury	117546-01-02 23:44 G	44653856.33	44653856.49	44653856.66	0.0089	0.0037
Venus	117546-01-04 08:22 G	44653857.63	44653857.85	44653858.07	0.0089	0.0015
Earth	117546-03-14 09:48 G	44653926.65	44653926.91	44653927.16	0.0089	0.0007
Moon	117546-03-14 12:27 G	44653926.77	44653927.02	44653927.28	0.0089	0.0005 *
Mercury	117546-04-01 02:36 G	44653944.47	44653944.61	44653944.78	0.0089	0.0047
Mercury	117546-06-28 05:44 G	44654032.61	44654032.74	44654032.89	0.0089	0.0056
Venus	117546-08-17 21:48 G	44654083.19	44654083.41	44654083.63	0.0089	0.0005
Mercury	117546-09-24 09:05 G	44654120.76	44654120.88	44654121.00	0.0089	0.0065
Mercury	117546-12-21 11:44 G	44654208.91	44654208.99	44654209.11	0.0089	0.0075
Moon	117547-03-16 18:12 G	44654294.03	44654294.26	44654294.52	0.0089	0.0033
Earth	117547-03-16 21:48 G	44654294.18	44654294.41	44654294.67	0.0089	0.0030 *
Mercury	117547-03-19 14:51 G	44654297.08	44654297.12	44654297.21	0.0089	0.0084
Venus	117547-03-31 11:00 G	44654308.75	44654308.96	44654309.19	0.0089	0.0006
Venus	117547-11-12 00:27 G	44654534.31	44654534.52	44654534.74	0.0089	0.0015
Earth	117548-03-18 10:17 G	44654661.73	44654661.93	44654662.14	0.0089	0.0054
Moon	117548-03-18 13:24 G	44654661.88	44654662.06	44654662.30	0.0089	0.0053 *
Venus	117548-06-24 13:53 G	44654759.87	44654760.08	44654760.30	0.0089	0.0025
Venus	117549-02-05 03:05 G	44654985.44	44654985.63	44654985.85	0.0089	0.0035
Moon	117549-03-20 19:10 G	44655029.21	44655029.30	44655029.44	0.0089	0.0080
Earth	117549-03-20 22:17 G	44655029.32	44655029.43	44655029.57	0.0089	0.0078 *
Venus	117549-09-18 16:17 G	44655211.01	44655211.18	44655211.39	0.0089	0.0045
Venus	117550-05-02 05:58 G	44655436.58	44655436.75	44655436.93	0.0089	0.0054
Venus	117550-12-13 19:10 G	44655662.16	44655662.30	44655662.47	0.0089	0.0064
Venus	117551-07-27 08:22 G	44655887.75	44655887.85	44655888.00	0.0089	0.0074
Venus	117552-03-08 21:48 G	44656113.35	44656113.41	44656113.51	0.0089	0.0083
Mars	117575-06-20 02:36 G	44664616.30	44664616.61	44664616.92	0.0090	0.0005
Jupiter	117613-12-24 18:56 G	44678684.15	44678684.29	44678684.55	0.0089	0.0082
Venus	117622-07-29 15:34 G	44681823.10	44681823.15	44681823.26	0.0088	0.0083

Venus	117623-03-12 04:03 G	44682048.57	44682048.67	44682048.82	0.0088	0.0073
Mercury	117623-03-21 00:12 G	44682057.49	44682057.51	44682057.54	0.0088	0.0086
Mercury	117623-06-17 01:53 G	44682145.53	44682145.58	44682145.64	0.0088	0.0079
Earth	117623-09-01 08:22 G	44682221.73	44682221.85	44682221.99	0.0088	0.0076
Moon	117623-09-01 09:48 G	44682221.79	44682221.91	44682222.07	0.0088	0.0075 *
Mercury	117623-09-13 03:34 G	44682233.57	44682233.65	44682233.73	0.0088	0.0072
Venus	117623-10-23 17:00 G	44682274.06	44682274.21	44682274.36	0.0088	0.0064
Mercury	117623-12-10 05:00 G	44682321.63	44682321.71	44682321.82	0.0088	0.0066
Mercury	117624-03-07 06:41 G	44682409.68	44682409.78	44682409.89	0.0088	0.0059
Mercury	117624-06-03 08:22 G	44682497.74	44682497.85	44682497.97	0.0088	0.0051
Venus	117624-06-05 05:29 G	44682499.57	44682499.73	44682499.91	0.0088	0.0054
Mercury	117624-08-30 10:03 G	44682585.80	44682585.92	44682586.04	0.0088	0.0044
Earth	117624-09-02 18:41 G	44682589.11	44682589.28	44682589.51	0.0088	0.0055
Moon	117624-09-02 19:10 G	44682589.13	44682589.30	44682589.51	0.0088	0.0057 *
Mercury	117624-11-26 11:44 G	44682673.86	44682673.99	44682674.12	0.0088	0.0038
Venus	117625-01-16 17:58 G	44682725.07	44682725.25	44682725.45	0.0088	0.0045
Mercury	117625-02-22 13:10 G	44682761.92	44682762.05	44682762.19	0.0088	0.0031
Mercury	117625-05-21 14:36 G	44682849.98	44682850.11	44682850.26	0.0088	0.0024
Mercury	117625-08-17 16:17 G	44682938.05	44682938.18	44682938.32	0.0088	0.0017
Venus	117625-08-30 06:27 G	44682950.58	44682950.77	44682950.98	0.0088	0.0036
Moon	117625-09-05 05:00 G	44682956.47	44682956.71	44682956.97	0.0088	0.0029
Earth	117625-09-05 05:58 G	44682956.53	44682956.75	44682957.01	0.0088	0.0032 *
Mercury	117625-11-13 17:58 G	44683026.11	44683026.25	44683026.39	0.0088	0.0010
Mercury	117626-02-09 19:24 G	44683114.17	44683114.31	44683114.46	0.0088	0.0004
Venus	117626-04-12 18:56 G	44683176.09	44683176.29	44683176.51	0.0088	0.0027
Mercury	117626-05-08 21:05 G	44683202.24	44683202.38	44683202.52	0.0088	0.0004
Mercury	117626-08-04 22:32 G	44683290.30	44683290.44	44683290.58	0.0088	0.0011
Earth	117626-09-07 17:29 G	44683323.97	44683324.23	44683324.48	0.0088	0.0008
Moon	117626-09-07 19:53 G	44683324.08	44683324.33	44683324.58	0.0088	0.0010 *
Mercury	117626-11-01 00:12 G	44683378.37	44683378.51	44683378.65	0.0088	0.0017

Venus	117626-11-24 07:39 G	44683401.61	44683401.82	44683402.04	0.0088	0.0017
Mercury	117627-01-28 01:39 G	44683466.44	44683466.57	44683466.71	0.0088	0.0024
Mercury	117627-04-26 03:05 G	44683554.50	44683554.63	44683554.77	0.0088	0.0031
Venus	117627-07-07 20:22 G	44683627.14	44683627.35	44683627.58	0.0088	0.0008
Mercury	117627-07-23 04:46 G	44683642.57	44683642.70	44683642.83	0.0088	0.0037
Moon	117627-09-10 00:56 G	44683691.28	44683691.54	44683691.80	0.0088	0.0018
Earth	117627-09-10 04:17 G	44683691.43	44683691.68	44683691.94	0.0088	0.0015 *
Mercury	117627-10-19 06:12 G	44683730.64	44683730.76	44683730.88	0.0088	0.0044
Mercury	117628-01-15 07:39 G	44683818.71	44683818.82	44683818.94	0.0088	0.0051
Venus	117628-02-18 09:05 G	44683852.66	44683852.88	44683853.10	0.0088	0.0001
Mercury	117628-04-12 09:20 G	44683906.78	44683906.89	44683906.99	0.0088	0.0057
Mercury	117628-07-09 10:32 G	44683994.86	44683994.94	44683995.05	0.0088	0.0064
Earth	117628-09-11 15:05 G	44684058.90	44684059.13	44684059.37	0.0088	0.0037
Moon	117628-09-11 18:41 G	44684059.05	44684059.28	44684059.52	0.0088	0.0035 *
Venus	117628-09-30 21:34 G	44684078.19	44684078.40	44684078.62	0.0088	0.0011
Mercury	117628-10-05 11:58 G	44684082.93	44684083.00	44684083.09	0.0088	0.0071
Mercury	117629-01-01 13:39 G	44684171.01	44684171.07	44684171.14	0.0088	0.0077
Mercury	117629-03-30 14:51 G	44684259.10	44684259.12	44684259.18	0.0088	0.0084
Venus	117629-05-14 10:03 G	44684303.71	44684303.92	44684304.14	0.0088	0.0020
Moon	117629-09-13 22:46 G	44684426.28	44684426.45	44684426.63	0.0088	0.0062
Earth	117629-09-14 01:53 G	44684426.41	44684426.58	44684426.79	0.0088	0.0060 *
Venus	117629-12-25 22:46 G	44684529.25	44684529.45	44684529.66	0.0088	0.0029
Venus	117630-08-08 11:15 G	44684754.79	44684754.97	44684755.18	0.0088	0.0039
Earth	117630-09-16 12:27 G	44684793.97	44684794.02	44684794.14	0.0088	0.0083
Moon	117630-09-16 15:05 G	44684794.05	44684794.13	44684794.27	0.0088	0.0080 *
Venus	117631-03-21 23:44 G	44684980.32	44684980.49	44684980.69	0.0088	0.0048
Venus	117631-11-02 12:27 G	44685205.87	44685206.02	44685206.20	0.0088	0.0057
Venus	117632-06-15 01:24 G	44685431.42	44685431.56	44685431.71	0.0088	0.0066
Venus	117633-01-26 13:39 G	44685656.98	44685657.07	44685657.20	0.0088	0.0076
Venus	117633-09-09 02:08 G	44685882.56	44685882.59	44685882.67	0.0088	0.0085



Mars	117657-02-21 17:29 G	44694448.95	44694449.23	44694449.53	0.0088	0.0036
Mars	117659-01-17 12:56 G	44695143.90	44695144.04	44695144.23	0.0088	0.0075
Venus	117705-12-11 18:27 G	44712273.21	44712273.27	44712273.35	0.0089	0.0084
Venus	117706-07-25 07:39 G	44712498.73	44712498.82	44712498.96	0.0089	0.0075
Venus	117707-03-07 21:20 G	44712724.26	44712724.39	44712724.56	0.0089	0.0065
Moon	117707-03-08 02:22 G	44712724.46	44712724.60	44712724.74	0.0089	0.0073 *
Earth	117707-03-08 02:51 G	44712724.50	44712724.62	44712724.77	0.0089	0.0075 *
Mercury	117707-05-16 03:48 G	44712793.62	44712793.66	44712793.73	0.0089	0.0084
Mercury	117707-08-12 06:56 G	44712881.70	44712881.79	44712881.89	0.0089	0.0075
Venus	117707-10-19 11:00 G	44712949.79	44712949.96	44712950.14	0.0089	0.0056
Mercury	117707-11-08 09:34 G	44712969.80	44712969.90	44712970.03	0.0089	0.0067
Mercury	117708-02-04 12:41 G	44713057.90	44713058.03	44713058.17	0.0089	0.0058
Moon	117708-03-09 15:05 G	44713091.93	44713092.13	44713092.36	0.0089	0.0054
Earth	117708-03-09 15:34 G	44713091.94	44713092.15	44713092.36	0.0089	0.0052 *
Mercury	117708-05-02 15:34 G	44713146.01	44713146.15	44713146.31	0.0089	0.0050
Venus	117708-06-01 00:12 G	44713175.34	44713175.51	44713175.72	0.0089	0.0046
Mercury	117708-07-29 18:41 G	44713234.13	44713234.28	44713234.44	0.0089	0.0041
Mercury	117708-10-25 21:34 G	44713322.24	44713322.40	44713322.57	0.0089	0.0032
Venus	117709-01-12 13:53 G	44713400.89	44713401.08	44713401.30	0.0089	0.0037
Mercury	117709-01-22 00:27 G	44713410.36	44713410.52	44713410.70	0.0089	0.0024
Earth	117709-03-12 03:34 G	44713459.42	44713459.65	44713459.91	0.0089	0.0029
Moon	117709-03-12 05:29 G	44713459.51	44713459.73	44713459.99	0.0089	0.0026 *
Mercury	117709-04-20 03:34 G	44713498.48	44713498.65	44713498.83	0.0089	0.0014
Mercury	117709-07-17 06:41 G	44713586.60	44713586.78	44713586.96	0.0089	0.0005
Venus	117709-08-26 03:34 G	44713626.44	44713626.65	44713626.87	0.0089	0.0026
Mercury	117709-10-13 09:48 G	44713674.73	44713674.91	44713675.09	0.0089	0.0004
Mercury	117710-01-09 12:41 G	44713762.85	44713763.03	44713763.21	0.0089	0.0013
Moon	117710-03-14 13:24 G	44713826.80	44713827.06	44713827.33	0.0089	0.0008
Earth	117710-03-14 16:17 G	44713826.93	44713827.18	44713827.44	0.0089	0.0005 *
Mercury	117710-04-07 15:34 G	44713850.98	44713851.15	44713851.33	0.0089	0.0022

Venus	117710-04-08 17:00 G	44713852.00	44713852.21	44713852.43	0.0089	0.0017
Mercury	117710-07-04 18:41 G	44713939.12	44713939.28	44713939.45	0.0089	0.0031
Mercury	117710-09-30 21:34 G	44714027.25	44714027.40	44714027.57	0.0089	0.0040
Venus	117710-11-20 06:27 G	44714077.55	44714077.77	44714077.99	0.0089	0.0007
Mercury	117710-12-28 00:41 G	44714115.39	44714115.53	44714115.69	0.0089	0.0049
Earth	117711-03-17 04:17 G	44714194.44	44714194.68	44714194.95	0.0089	0.0020
Moon	117711-03-17 07:39 G	44714194.59	44714194.82	44714195.08	0.0089	0.0023 *
Mercury	117711-03-26 03:48 G	44714203.53	44714203.66	44714203.81	0.0089	0.0058
Mercury	117711-06-22 06:56 G	44714291.68	44714291.79	44714291.92	0.0089	0.0067
Venus	117711-07-03 19:53 G	44714303.11	44714303.33	44714303.55	0.0089	0.0003
Mercury	117711-09-18 10:03 G	44714379.84	44714379.92	44714380.02	0.0089	0.0077
Mercury	117711-12-15 13:24 G	44714468.01	44714468.06	44714468.11	0.0089	0.0086
Venus	117712-02-14 09:20 G	44714528.68	44714528.89	44714529.11	0.0089	0.0013
Moon	117712-03-18 12:56 G	44714561.83	44714562.04	44714562.29	0.0089	0.0040
Earth	117712-03-18 16:32 G	44714561.98	44714562.19	44714562.43	0.0089	0.0043 *
Venus	117712-09-26 22:46 G	44714754.24	44714754.45	44714754.66	0.0089	0.0023
Earth	117713-03-21 04:46 G	44714929.55	44714929.70	44714929.89	0.0089	0.0067
Moon	117713-03-21 07:39 G	44714929.68	44714929.82	44714930.01	0.0089	0.0070 *
Venus	117713-05-10 11:58 G	44714979.80	44714980.00	44714980.21	0.0089	0.0032
Venus	117713-12-22 01:10 G	44715205.38	44715205.55	44715205.76	0.0089	0.0043
Moon	117714-03-23 14:22 G	44715297.07	44715297.10	44715297.17	0.0089	0.0088
Venus	117714-08-04 14:51 G	44715430.95	44715431.12	44715431.31	0.0089	0.0052
Venus	117715-03-18 04:03 G	44715656.52	44715656.67	44715656.84	0.0089	0.0062
Venus	117715-10-29 17:00 G	44715882.11	44715882.21	44715882.37	0.0089	0.0072
Venus	117716-06-11 06:41 G	44716107.70	44716107.78	44716107.89	0.0089	0.0081
Mars	117739-02-02 14:22 G	44724378.85	44724379.10	44724379.39	0.0090	0.0044
Mars	117740-12-28 07:39 G	44725073.65	44725073.82	44725074.01	0.0090	0.0072
Venus	117786-11-01 01:53 G	44741817.53	44741817.58	44741817.67	0.0088	0.0084
Venus	117787-06-14 14:36 G	44742043.01	44742043.11	44742043.24	0.0088	0.0074
Earth	117787-09-01 16:03 G	44742122.15	44742122.17	44742122.25	0.0088	0.0087

Mercury	117787-12-16 23:29 G	44742228.45	44742228.48	44742228.53	0.0088	0.0084
Venus	117788-01-26 03:05 G	44742268.50	44742268.63	44742268.79	0.0088	0.0065
Mercury	117788-03-14 01:10 G	44742316.49	44742316.55	44742316.62	0.0088	0.0077
Mercury	117788-06-10 02:51 G	44742404.54	44742404.62	44742404.71	0.0088	0.0070
Moon	117788-09-03 02:51 G	44742489.44	44742489.62	44742489.84	0.0088	0.0059
Earth	117788-09-03 02:51 G	44742489.47	44742489.62	44742489.82	0.0088	0.0064 *
Mercury	117788-09-06 04:31 G	44742492.59	44742492.69	44742492.79	0.0088	0.0063
Venus	117788-09-07 15:19 G	44742493.99	44742494.14	44742494.33	0.0088	0.0056
Mercury	117788-12-03 06:12 G	44742580.65	44742580.76	44742580.87	0.0088	0.0056
Mercury	117789-03-01 07:24 G	44742668.71	44742668.81	44742668.94	0.0088	0.0050
Venus	117789-04-21 04:17 G	44742719.49	44742719.68	44742719.86	0.0088	0.0047
Mercury	117789-05-28 09:05 G	44742756.77	44742756.88	44742757.02	0.0088	0.0042
Mercury	117789-08-24 10:46 G	44742844.83	44742844.95	44742845.09	0.0088	0.0035
Earth	117789-09-05 13:53 G	44742856.87	44742857.08	44742857.33	0.0088	0.0042
Moon	117789-09-05 15:19 G	44742856.93	44742857.14	44742857.36	0.0088	0.0045 *
Mercury	117789-11-20 12:27 G	44742932.89	44742933.02	44742933.16	0.0088	0.0028
Venus	117789-12-02 16:31 G	44742945.00	44742945.19	44742945.40	0.0088	0.0038
Mercury	117790-02-16 14:07 G	44743020.95	44743021.09	44743021.23	0.0088	0.0021
Mercury	117790-05-15 15:34 G	44743109.02	44743109.15	44743109.30	0.0088	0.0015
Venus	117790-07-16 05:15 G	44743170.52	44743170.72	44743170.93	0.0088	0.0028
Mercury	117790-08-11 17:15 G	44743197.08	44743197.22	44743197.36	0.0088	0.0007
Moon	117790-09-07 22:46 G	44743224.19	44743224.45	44743224.71	0.0088	0.0013
Earth	117790-09-08 01:10 G	44743224.30	44743224.55	44743224.80	0.0088	0.0018 *
Mercury	117790-11-07 18:41 G	44743285.14	44743285.28	44743285.43	0.0088	0.0003
Mercury	117791-02-03 20:22 G	44743373.21	44743373.35	44743373.49	0.0088	0.0006
Venus	117791-02-26 17:43 G	44743396.03	44743396.24	44743396.46	0.0088	0.0019
Mercury	117791-05-02 21:48 G	44743461.27	44743461.41	44743461.55	0.0088	0.0013
Mercury	117791-07-29 23:15 G	44743549.34	44743549.47	44743549.62	0.0088	0.0021
Earth	117791-09-10 11:58 G	44743591.75	44743592.00	44743592.26	0.0088	0.0005
Moon	117791-09-10 15:34 G	44743591.89	44743592.15	44743592.40	0.0088	0.0001 *

Venus	117791-10-10 06:27 G	44743621.55	44743621.77	44743621.99	0.0088	0.0010
Mercury	117791-10-26 00:55 G	44743637.41	44743637.54	44743637.68	0.0088	0.0027
Mercury	117792-01-22 02:22 G	44743725.48	44743725.60	44743725.74	0.0088	0.0034
Mercury	117792-04-19 03:48 G	44743813.55	44743813.66	44743813.79	0.0088	0.0041
Venus	117792-05-22 18:55 G	44743847.08	44743847.29	44743847.51	0.0088	0.0002
Mercury	117792-07-16 05:15 G	44743901.62	44743901.72	44743901.85	0.0088	0.0047
Moon	117792-09-11 19:24 G	44743959.08	44743959.31	44743959.57	0.0088	0.0032
Earth	117792-09-11 23:00 G	44743959.22	44743959.46	44743959.72	0.0088	0.0027 *
Mercury	117792-10-12 07:10 G	44743989.69	44743989.80	44743989.91	0.0088	0.0053
Venus	117793-01-03 07:39 G	44744072.60	44744072.82	44744073.04	0.0088	0.0009
Mercury	117793-01-08 08:22 G	44744077.76	44744077.85	44744077.96	0.0088	0.0060
Mercury	117793-04-06 09:48 G	44744165.83	44744165.91	44744166.01	0.0088	0.0067
Mercury	117793-07-03 11:29 G	44744253.91	44744253.98	44744254.06	0.0088	0.0073
Venus	117793-08-16 20:07 G	44744298.13	44744298.34	44744298.56	0.0088	0.0019
Earth	117793-09-14 09:48 G	44744326.72	44744326.91	44744327.14	0.0088	0.0050
Moon	117793-09-14 13:24 G	44744326.85	44744327.06	44744327.30	0.0088	0.0045 *
Mercury	117793-09-29 12:55 G	44744341.99	44744342.04	44744342.11	0.0088	0.0080
Mercury	117793-12-26 14:36 G	44744430.09	44744430.11	44744430.13	0.0088	0.0086
Venus	117794-03-30 08:36 G	44744523.66	44744523.86	44744524.08	0.0088	0.0028
Moon	117794-09-16 18:41 G	44744694.17	44744694.28	44744694.41	0.0088	0.0077
Earth	117794-09-16 20:36 G	44744694.25	44744694.36	44744694.53	0.0088	0.0073 *
Venus	117794-11-10 21:19 G	44744749.20	44744749.39	44744749.59	0.0088	0.0037
Venus	117795-06-24 10:03 G	44744974.74	44744974.92	44744975.11	0.0088	0.0046
Venus	117796-02-04 22:17 G	44745200.28	44745200.43	44745200.62	0.0088	0.0056
Venus	117796-09-17 11:00 G	44745425.83	44745425.96	44745426.13	0.0088	0.0065
Venus	117797-04-30 23:43 G	44745651.39	44745651.49	44745651.62	0.0088	0.0074
Venus	117797-12-12 12:12 G	44745876.96	44745877.01	44745877.10	0.0088	0.0083
Mars	117820-10-08 06:55 G	44754211.68	44754211.79	44754211.94	0.0088	0.0080
Mars	117822-09-02 23:43 G	44754906.21	44754906.49	44754906.81	0.0088	0.0031
Venus	117870-03-16 02:07 G	44772267.57	44772267.59	44772267.66	0.0089	0.0087

Venus	117870-10-27 15:48 G	44772493.07	44772493.16	44772493.29	0.0089	0.0077
Earth	117871-03-08 08:22 G	44772624.81	44772624.85	44772624.93	0.0089	0.0087
Venus	117871-06-10 05:43 G	44772718.60	44772718.74	44772718.89	0.0089	0.0067
Venus	117872-01-21 18:55 G	44772944.15	44772944.29	44772944.48	0.0089	0.0058
Mercury	117872-02-11 01:39 G	44772964.52	44772964.57	44772964.66	0.0089	0.0082
Earth	117872-03-09 20:36 G	44772992.21	44772992.36	44772992.57	0.0089	0.0064
Moon	117872-03-09 21:34 G	44772992.22	44772992.40	44772992.60	0.0089	0.0059 *
Mercury	117872-05-09 04:46 G	44773052.61	44773052.70	44773052.81	0.0089	0.0073
Mercury	117872-08-05 07:53 G	44773140.71	44773140.83	44773140.95	0.0089	0.0064
Venus	117872-09-03 08:36 G	44773169.69	44773169.86	44773170.06	0.0089	0.0048
Mercury	117872-11-01 10:31 G	44773228.82	44773228.94	44773229.09	0.0089	0.0056
Mercury	117873-01-28 13:24 G	44773316.93	44773317.06	44773317.23	0.0089	0.0048
Moon	117873-03-12 07:10 G	44773359.58	44773359.80	44773360.04	0.0089	0.0043
Earth	117873-03-12 09:19 G	44773359.68	44773359.89	44773360.14	0.0089	0.0040 *
Venus	117873-04-16 22:17 G	44773395.24	44773395.43	44773395.64	0.0089	0.0038
Mercury	117873-04-26 16:31 G	44773405.04	44773405.19	44773405.36	0.0089	0.0038
Mercury	117873-07-23 19:39 G	44773493.15	44773493.32	44773493.49	0.0089	0.0029
Mercury	117873-10-19 22:46 G	44773581.27	44773581.45	44773581.62	0.0089	0.0021
Venus	117873-11-28 11:58 G	44773620.79	44773621.00	44773621.21	0.0089	0.0029
Mercury	117874-01-16 01:39 G	44773669.39	44773669.57	44773669.75	0.0089	0.0012
Earth	117874-03-14 22:03 G	44773727.16	44773727.42	44773727.67	0.0089	0.0016
Moon	117874-03-15 00:55 G	44773727.29	44773727.54	44773727.79	0.0089	0.0011 *
Mercury	117874-04-14 04:31 G	44773757.52	44773757.69	44773757.87	0.0089	0.0004
Mercury	117874-07-11 07:39 G	44773845.64	44773845.82	44773846.00	0.0089	0.0006
Venus	117874-07-12 01:10 G	44773846.34	44773846.55	44773846.78	0.0089	0.0019
Mercury	117874-10-07 10:31 G	44773933.77	44773933.94	44773934.12	0.0089	0.0015
Mercury	117875-01-03 13:24 G	44774021.90	44774022.06	44774022.24	0.0089	0.0025
Venus	117875-02-22 14:51 G	44774071.90	44774072.12	44774072.34	0.0089	0.0009
Moon	117875-03-17 06:55 G	44774094.53	44774094.79	44774095.05	0.0089	0.0003
Earth	117875-03-17 10:17 G	44774094.68	44774094.93	44774095.19	0.0089	0.0008 *

Mercury	117875-04-01 16:31 G	44774110.03	44774110.19	44774110.36	0.0089	0.0033
Mercury	117875-06-28 19:24 G	44774198.17	44774198.31	44774198.48	0.0089	0.0043
Mercury	117875-09-24 22:31 G	44774286.30	44774286.44	44774286.60	0.0089	0.0052
Venus	117875-10-06 04:17 G	44774297.46	44774297.68	44774297.90	0.0089	0.0001
Mercury	117875-12-22 01:39 G	44774374.45	44774374.57	44774374.71	0.0089	0.0061
Earth	117876-03-18 22:31 G	44774462.20	44774462.44	44774462.68	0.0089	0.0032
Moon	117876-03-19 01:53 G	44774462.36	44774462.58	44774462.83	0.0089	0.0037 *
Mercury	117876-03-19 04:46 G	44774462.60	44774462.70	44774462.82	0.0089	0.0070 *
Venus	117876-05-18 17:29 G	44774523.02	44774523.23	44774523.46	0.0089	0.0011
Mercury	117876-06-15 07:53 G	44774550.75	44774550.83	44774550.92	0.0089	0.0079
Mercury	117876-09-11 10:31 G	44774638.94	44774638.94	44774639.00	0.0089	0.0089
Venus	117876-12-30 06:55 G	44774748.58	44774748.79	44774749.01	0.0089	0.0020
Moon	117877-03-21 07:39 G	44774829.63	44774829.82	44774830.04	0.0089	0.0051
Earth	117877-03-21 10:31 G	44774829.75	44774829.94	44774830.15	0.0089	0.0056 *
Venus	117877-08-12 20:07 G	44774974.15	44774974.34	44774974.56	0.0089	0.0031
Earth	117878-03-23 23:00 G	44775197.34	44775197.46	44775197.58	0.0089	0.0079
Moon	117878-03-24 00:55 G	44775197.47	44775197.54	44775197.66	0.0089	0.0084 *
Venus	117878-03-26 09:34 G	44775199.71	44775199.90	44775200.11	0.0089	0.0040
Venus	117878-11-06 22:46 G	44775425.28	44775425.45	44775425.65	0.0089	0.0050
Venus	117879-06-20 11:58 G	44775650.86	44775651.00	44775651.19	0.0089	0.0060
Venus	117880-02-01 01:53 G	44775876.45	44775876.58	44775876.72	0.0089	0.0069
Venus	117880-09-13 14:51 G	44776102.04	44776102.12	44776102.24	0.0089	0.0079
Venus	117881-04-27 04:31 G	44776327.66	44776327.69	44776327.73	0.0089	0.0088
Mars	117904-08-13 19:10 G	44784836.02	44784836.30	44784836.62	0.0090	0.0024
Venus	117951-02-04 11:43 G	44801811.96	44801811.99	44801812.07	0.0088	0.0085
Venus	117951-09-17 23:58 G	44802037.42	44802037.50	44802037.64	0.0088	0.0077
Venus	117952-04-30 12:27 G	44802262.90	44802263.02	44802263.18	0.0088	0.0067
Earth	117952-09-04 10:03 G	44802389.81	44802389.92	44802390.09	0.0088	0.0075
Moon	117952-09-04 11:15 G	44802389.84	44802389.97	44802390.10	0.0088	0.0075 *
Mercury	117952-09-13 22:31 G	44802399.40	44802399.44	44802399.50	0.0088	0.0082

Mercury	117952-12-11 00:12 G	44802487.44	44802487.51	44802487.59	0.0088	0.0075
Venus	117952-12-12 01:24 G	44802488.40	44802488.56	44802488.73	0.0088	0.0058
Mercury	117953-03-09 01:53 G	44802575.50	44802575.58	44802575.68	0.0088	0.0067
Mercury	117953-06-05 03:34 G	44802663.55	44802663.65	44802663.76	0.0088	0.0060
Venus	117953-07-25 13:53 G	44802713.90	44802714.08	44802714.27	0.0088	0.0048
Mercury	117953-09-01 05:15 G	44802751.61	44802751.72	44802751.83	0.0088	0.0053
Moon	117953-09-06 19:39 G	44802757.12	44802757.32	44802757.55	0.0088	0.0051
Earth	117953-09-06 21:05 G	44802757.19	44802757.38	44802757.61	0.0088	0.0052 *
Mercury	117953-11-28 06:55 G	44802839.67	44802839.79	44802839.91	0.0088	0.0047
Mercury	117954-02-24 08:22 G	44802927.73	44802927.85	44802927.98	0.0088	0.0040
Venus	117954-03-08 02:07 G	44802939.41	44802939.59	44802939.80	0.0088	0.0040
Mercury	117954-05-23 09:48 G	44803015.79	44803015.91	44803016.05	0.0088	0.0033
Mercury	117954-08-19 11:29 G	44803103.85	44803103.98	44803104.12	0.0088	0.0026
Earth	117954-09-09 08:22 G	44803124.60	44803124.85	44803125.09	0.0088	0.0029
Moon	117954-09-09 10:31 G	44803124.72	44803124.94	44803125.19	0.0088	0.0030 *
Venus	117954-10-19 14:36 G	44803164.92	44803165.11	44803165.33	0.0088	0.0030
Mercury	117954-11-15 13:10 G	44803191.91	44803192.05	44803192.19	0.0088	0.0019
Mercury	117955-02-11 14:51 G	44803279.98	44803280.12	44803280.26	0.0088	0.0012
Mercury	117955-05-10 16:17 G	44803368.04	44803368.18	44803368.33	0.0088	0.0006
Venus	117955-06-02 03:05 G	44803390.43	44803390.63	44803390.86	0.0088	0.0021
Mercury	117955-08-06 17:58 G	44803456.11	44803456.25	44803456.39	0.0088	0.0002
Moon	117955-09-11 15:34 G	44803491.89	44803492.15	44803492.41	0.0088	0.0006
Earth	117955-09-11 19:10 G	44803492.04	44803492.30	44803492.56	0.0088	0.0006 *
Mercury	117955-11-02 19:24 G	44803544.17	44803544.31	44803544.46	0.0088	0.0009
Venus	117956-01-13 16:03 G	44803615.95	44803616.17	44803616.38	0.0088	0.0011
Mercury	117956-01-29 21:05 G	44803632.24	44803632.38	44803632.52	0.0088	0.0015
Mercury	117956-04-26 22:31 G	44803720.31	44803720.44	44803720.58	0.0088	0.0022
Mercury	117956-07-23 23:58 G	44803808.37	44803808.50	44803808.64	0.0088	0.0029
Venus	117956-08-26 04:31 G	44803841.47	44803841.69	44803841.91	0.0088	0.0002
Earth	117956-09-13 05:58 G	44803859.50	44803859.75	44803860.01	0.0088	0.0017

Moon	117956-09-13 09:19 G	44803859.65	44803859.89	44803860.15	0.0088	0.0016 *
Mercury	117956-10-20 01:39 G	44803896.44	44803896.57	44803896.70	0.0088	0.0035
Mercury	117957-01-16 03:05 G	44803984.51	44803984.63	44803984.76	0.0088	0.0042
Venus	117957-04-08 17:00 G	44804066.99	44804067.21	44804067.43	0.0088	0.0007
Mercury	117957-04-14 04:31 G	44804072.58	44804072.69	44804072.82	0.0088	0.0049
Mercury	117957-07-11 06:12 G	44804160.66	44804160.76	44804160.87	0.0088	0.0056
Moon	117957-09-15 13:24 G	44804226.85	44804227.06	44804227.30	0.0088	0.0041
Earth	117957-09-15 16:46 G	44804226.99	44804227.20	44804227.45	0.0088	0.0040 *
Mercury	117957-10-07 07:39 G	44804248.73	44804248.82	44804248.92	0.0088	0.0062
Venus	117957-11-20 05:29 G	44804292.52	44804292.73	44804292.95	0.0088	0.0017
Mercury	117958-01-03 09:05 G	44804336.80	44804336.88	44804336.98	0.0088	0.0069
Mercury	117958-04-01 10:46 G	44804424.88	44804424.95	44804425.02	0.0088	0.0075
Mercury	117958-06-28 11:58 G	44804512.97	44804513.00	44804513.06	0.0088	0.0082
Venus	117958-07-03 18:12 G	44804518.06	44804518.26	44804518.48	0.0088	0.0026
Earth	117958-09-18 04:03 G	44804594.49	44804594.67	44804594.85	0.0088	0.0062
Moon	117958-09-18 05:43 G	44804594.58	44804594.74	44804594.95	0.0088	0.0062 *
Venus	117959-02-14 06:55 G	44804743.59	44804743.79	44804743.99	0.0088	0.0035
Moon	117959-09-20 13:39 G	44804962.04	44804962.07	44804962.14	0.0088	0.0086
Earth	117959-09-20 14:51 G	44804962.08	44804962.12	44804962.20	0.0088	0.0085 *
Venus	117959-09-27 19:10 G	44804969.13	44804969.30	44804969.51	0.0088	0.0045
Venus	117960-05-10 07:53 G	44805194.67	44805194.83	44805195.02	0.0088	0.0054
Venus	117960-12-21 20:36 G	44805420.22	44805420.36	44805420.52	0.0088	0.0063
Venus	117961-08-04 09:34 G	44805645.78	44805645.90	44805646.03	0.0088	0.0072
Venus	117962-03-17 22:17 G	44805871.35	44805871.43	44805871.51	0.0088	0.0081
Mars	117986-04-18 11:43 G	44814668.69	44814668.99	44814669.31	0.0088	0.0016

# 119TH MILLENNIUM CE



**This is a list of transits visible from Neptune in the 119th millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	118023-01-11 22:31	G	44828086.13	44828086.44	44828086.86	0.0088	0.0069	
Venus	118034-06-18 10:31	G	44832261.94	44832261.94	44832261.95	0.0089	0.0089	
Venus	118035-01-29 23:58	G	44832487.41	44832487.50	44832487.61	0.0089	0.0079	
Venus	118035-09-12 13:10	G	44832712.94	44832713.05	44832713.21	0.0089	0.0070	
Moon	118036-03-10 01:10	G	44832892.41	44832892.55	44832892.71	0.0089	0.0073	
Earth	118036-03-10 02:07	G	44832892.47	44832892.59	44832892.75	0.0089	0.0074	*
Venus	118036-04-25 02:51	G	44832938.48	44832938.62	44832938.80	0.0089	0.0061	
Mercury	118036-08-11 20:51	G	44833047.36	44833047.37	44833047.41	0.0089	0.0088	
Mercury	118036-11-07 23:58	G	44833135.43	44833135.50	44833135.58	0.0089	0.0079	
Venus	118036-12-06 16:46	G	44833164.03	44833164.20	44833164.39	0.0089	0.0050	
Mercury	118037-02-04 02:36	G	44833223.52	44833223.61	44833223.73	0.0089	0.0071	
Earth	118037-03-12 15:05	G	44833259.91	44833260.13	44833260.34	0.0089	0.0051	
Moon	118037-03-12 17:15	G	44833260.03	44833260.22	44833260.44	0.0089	0.0052	*
Mercury	118037-05-03 05:43	G	44833311.62	44833311.74	44833311.87	0.0089	0.0062	
Venus	118037-07-20 06:27	G	44833389.58	44833389.77	44833389.97	0.0089	0.0041	
Mercury	118037-07-30 08:36	G	44833399.73	44833399.86	44833400.01	0.0089	0.0054	
Mercury	118037-10-26 11:29	G	44833487.84	44833487.98	44833488.14	0.0089	0.0045	
Mercury	118038-01-22 14:22	G	44833575.95	44833576.10	44833576.27	0.0089	0.0036	
Venus	118038-03-02 19:39	G	44833615.13	44833615.32	44833615.55	0.0089	0.0032	
Moon	118038-03-15 00:12	G	44833627.26	44833627.51	44833627.76	0.0089	0.0025	
Earth	118038-03-15 03:19	G	44833627.41	44833627.64	44833627.90	0.0089	0.0027	*

Mercury	118038-04-20 17:29 G	44833664.07	44833664.23	44833664.40	0.0089	0.0027
Mercury	118038-07-17 20:36 G	44833752.18	44833752.36	44833752.53	0.0089	0.0018
Mercury	118038-10-13 23:29 G	44833840.30	44833840.48	44833840.66	0.0089	0.0009
Venus	118038-10-14 09:19 G	44833840.68	44833840.89	44833841.11	0.0089	0.0021
Mercury	118039-01-10 02:36 G	44833928.43	44833928.61	44833928.79	0.0089	0.0002
Earth	118039-03-17 16:03 G	44833994.91	44833995.17	44833995.43	0.0089	0.0003
Moon	118039-03-17 19:39 G	44833995.06	44833995.32	44833995.57	0.0089	0.0004 *
Mercury	118039-04-08 05:29 G	44834016.55	44834016.73	44834016.91	0.0089	0.0008
Venus	118039-05-27 23:00 G	44834066.24	44834066.46	44834066.68	0.0089	0.0011
Mercury	118039-07-05 08:22 G	44834104.68	44834104.85	44834105.03	0.0089	0.0018
Mercury	118039-10-01 11:29 G	44834192.81	44834192.98	44834193.15	0.0089	0.0026
Mercury	118039-12-28 14:22 G	44834280.94	44834281.10	44834281.27	0.0089	0.0036
Venus	118040-01-08 12:41 G	44834291.81	44834292.03	44834292.25	0.0089	0.0002
Moon	118040-03-19 00:41 G	44834362.29	44834362.53	44834362.78	0.0089	0.0022
Earth	118040-03-19 04:03 G	44834362.43	44834362.67	44834362.93	0.0089	0.0021 *
Mercury	118040-03-25 17:29 G	44834369.08	44834369.23	44834369.39	0.0089	0.0044
Mercury	118040-06-21 20:36 G	44834457.22	44834457.36	44834457.51	0.0089	0.0053
Venus	118040-08-21 01:53 G	44834517.37	44834517.58	44834517.81	0.0089	0.0009
Mercury	118040-09-17 23:29 G	44834545.36	44834545.48	44834545.62	0.0089	0.0063
Mercury	118040-12-15 02:51 G	44834633.51	44834633.62	44834633.72	0.0089	0.0072
Mercury	118041-03-13 05:29 G	44834721.67	44834721.73	44834721.82	0.0089	0.0081
Earth	118041-03-21 16:03 G	44834729.97	44834730.17	44834730.41	0.0089	0.0045
Moon	118041-03-21 18:41 G	44834730.06	44834730.28	44834730.53	0.0089	0.0043 *
Venus	118041-04-03 15:05 G	44834742.93	44834743.13	44834743.36	0.0089	0.0019
Venus	118041-11-15 04:46 G	44834968.49	44834968.70	44834968.91	0.0089	0.0028
Moon	118042-03-24 02:22 G	44835097.47	44835097.60	44835097.79	0.0089	0.0069
Earth	118042-03-24 04:31 G	44835097.54	44835097.69	44835097.87	0.0089	0.0068 *
Venus	118042-06-28 17:58 G	44835194.06	44835194.25	44835194.46	0.0089	0.0037
Venus	118043-02-09 07:10 G	44835419.63	44835419.80	44835420.00	0.0089	0.0048
Venus	118043-09-22 20:51 G	44835645.20	44835645.37	44835645.54	0.0089	0.0057

Venus	118044-05-05 09:48 G	44835870.78	44835870.91	44835871.07	0.0089	0.0067
Venus	118044-12-16 23:00 G	44836096.37	44836096.46	44836096.60	0.0089	0.0077
Venus	118045-07-30 12:27 G	44836321.98	44836322.02	44836322.10	0.0089	0.0086
Mars	118068-03-28 03:05 G	44844598.35	44844598.63	44844598.95	0.0090	0.0027
Mars	118070-02-20 23:43 G	44845293.49	44845293.49	44845293.51	0.0090	0.0090
Venus	118115-05-09 21:34 G	44861806.37	44861806.40	44861806.45	0.0088	0.0087
Venus	118115-12-21 10:03 G	44862031.83	44862031.92	44862032.03	0.0088	0.0078
Venus	118116-08-02 22:17 G	44862257.31	44862257.43	44862257.58	0.0088	0.0069
Earth	118116-09-04 17:15 G	44862290.17	44862290.22	44862290.32	0.0088	0.0085
Mercury	118117-03-15 19:53 G	44862482.32	44862482.33	44862482.37	0.0088	0.0087
Venus	118117-03-16 10:46 G	44862482.80	44862482.95	44862483.12	0.0088	0.0060
Mercury	118117-06-11 21:34 G	44862570.35	44862570.40	44862570.47	0.0088	0.0080
Earth	118117-09-07 04:31 G	44862657.51	44862657.69	44862657.87	0.0088	0.0062
Moon	118117-09-07 06:41 G	44862657.59	44862657.78	44862657.97	0.0088	0.0058 *
Mercury	118117-09-07 23:15 G	44862658.40	44862658.47	44862658.56	0.0088	0.0072
Venus	118117-10-27 23:15 G	44862708.30	44862708.47	44862708.66	0.0088	0.0050
Mercury	118117-12-05 00:55 G	44862746.45	44862746.54	44862746.64	0.0088	0.0065
Mercury	118118-03-03 02:36 G	44862834.51	44862834.61	44862834.72	0.0088	0.0058
Mercury	118118-05-30 04:17 G	44862922.57	44862922.68	44862922.80	0.0088	0.0051
Venus	118118-06-10 11:43 G	44862933.81	44862933.99	44862934.20	0.0088	0.0041
Mercury	118118-08-26 05:58 G	44863010.63	44863010.75	44863010.87	0.0088	0.0044
Moon	118118-09-09 11:58 G	44863024.78	44863025.00	44863025.24	0.0088	0.0043
Earth	118118-09-09 14:51 G	44863024.91	44863025.12	44863025.37	0.0088	0.0039 *
Mercury	118118-11-22 07:24 G	44863098.69	44863098.81	44863098.95	0.0088	0.0038
Venus	118119-01-22 00:12 G	44863159.32	44863159.51	44863159.73	0.0088	0.0032
Mercury	118119-02-18 09:05 G	44863186.75	44863186.88	44863187.02	0.0088	0.0031
Mercury	118119-05-17 10:46 G	44863274.81	44863274.95	44863275.09	0.0088	0.0024
Mercury	118119-08-13 12:12 G	44863362.88	44863363.01	44863363.15	0.0088	0.0017
Venus	118119-09-04 12:55 G	44863384.83	44863385.04	44863385.25	0.0088	0.0022
Earth	118119-09-12 01:53 G	44863392.33	44863392.58	44863392.84	0.0088	0.0016

Moon	118119-09-12 05:43 G	44863392.49	44863392.74	44863393.00	0.0088	0.0011	*
Mercury	118119-11-09 13:53 G	44863450.94	44863451.08	44863451.22	0.0088	0.0010	
Mercury	118120-02-05 15:34 G	44863539.01	44863539.15	44863539.29	0.0088	0.0004	
Venus	118120-04-17 01:10 G	44863610.34	44863610.55	44863610.77	0.0088	0.0013	
Mercury	118120-05-03 17:00 G	44863627.07	44863627.21	44863627.35	0.0088	0.0004	
Mercury	118120-07-30 18:27 G	44863715.14	44863715.27	44863715.42	0.0088	0.0011	
Moon	118120-09-13 09:48 G	44863759.65	44863759.91	44863760.16	0.0088	0.0002	
Earth	118120-09-13 12:55 G	44863759.79	44863760.04	44863760.30	0.0088	0.0007	*
Mercury	118120-10-26 20:07 G	44863803.20	44863803.34	44863803.48	0.0088	0.0017	
Venus	118120-11-28 13:53 G	44863835.86	44863836.08	44863836.30	0.0088	0.0004	
Mercury	118121-01-22 21:34 G	44863891.27	44863891.40	44863891.54	0.0088	0.0024	
Mercury	118121-04-20 23:00 G	44863979.34	44863979.46	44863979.60	0.0088	0.0032	
Venus	118121-07-12 02:22 G	44864061.39	44864061.60	44864061.82	0.0088	0.0006	
Mercury	118121-07-18 00:55 G	44864067.41	44864067.54	44864067.66	0.0088	0.0038	
Earth	118121-09-15 23:29 G	44864127.24	44864127.48	44864127.73	0.0088	0.0029	
Moon	118121-09-16 02:36 G	44864127.37	44864127.61	44864127.86	0.0088	0.0034	*
Mercury	118121-10-14 02:07 G	44864155.48	44864155.59	44864155.72	0.0088	0.0045	
Mercury	118122-01-10 03:34 G	44864243.55	44864243.65	44864243.78	0.0088	0.0052	
Venus	118122-02-22 14:51 G	44864286.91	44864287.12	44864287.34	0.0088	0.0015	
Mercury	118122-04-08 05:29 G	44864331.62	44864331.73	44864331.83	0.0088	0.0058	
Mercury	118122-07-05 06:41 G	44864419.70	44864419.78	44864419.88	0.0088	0.0064	
Moon	118122-09-18 09:05 G	44864494.67	44864494.88	44864495.09	0.0088	0.0047	
Earth	118122-09-18 10:17 G	44864494.74	44864494.93	44864495.15	0.0088	0.0052	*
Mercury	118122-10-01 08:07 G	44864507.77	44864507.84	44864507.93	0.0088	0.0071	
Venus	118122-10-06 03:19 G	44864512.44	44864512.64	44864512.86	0.0088	0.0024	
Mercury	118122-12-28 09:48 G	44864595.85	44864595.91	44864595.98	0.0088	0.0077	
Mercury	118123-03-26 11:15 G	44864683.94	44864683.97	44864684.02	0.0088	0.0084	
Venus	118123-05-19 16:03 G	44864737.97	44864738.17	44864738.37	0.0088	0.0033	
Earth	118123-09-20 21:05 G	44864862.27	44864862.38	44864862.54	0.0088	0.0075	
Moon	118123-09-20 21:05 G	44864862.30	44864862.38	44864862.54	0.0088	0.0079	*

Venus	118123-12-31 04:17 G	44864963.51	44864963.68	44864963.89	0.0088	0.0043
Venus	118124-08-12 17:00 G	44865189.05	44865189.21	44865189.40	0.0088	0.0052
Venus	118125-03-26 05:43 G	44865414.60	44865414.74	44865414.91	0.0088	0.0061
Venus	118125-11-06 18:27 G	44865640.15	44865640.27	44865640.41	0.0088	0.0070
Venus	118126-06-20 06:41 G	44865865.72	44865865.78	44865865.90	0.0088	0.0080
Mars	118149-12-02 01:39 G	44874431.37	44874431.57	44874431.83	0.0088	0.0060
Mars	118151-10-27 17:00 G	44875125.98	44875126.21	44875126.50	0.0088	0.0051
Jupiter	118189-03-16 17:58 G	44888780.80	44888781.25	44888781.79	0.0089	0.0045
Venus	118199-05-04 07:10 G	44892481.74	44892481.80	44892481.91	0.0089	0.0082
Venus	118199-12-15 21:05 G	44892707.27	44892707.38	44892707.52	0.0089	0.0072
Earth	118200-03-11 07:10 G	44892792.73	44892792.80	44892792.87	0.0089	0.0085
Venus	118200-07-29 11:00 G	44892932.80	44892932.96	44892933.12	0.0089	0.0062
Venus	118201-03-12 00:12 G	44893158.35	44893158.51	44893158.70	0.0089	0.0053
Moon	118201-03-13 16:03 G	44893159.99	44893160.17	44893160.39	0.0089	0.0057
Earth	118201-03-13 19:24 G	44893160.14	44893160.31	44893160.51	0.0089	0.0062 *
Mercury	118201-05-10 18:41 G	44893218.25	44893218.28	44893218.33	0.0089	0.0086
Mercury	118201-08-06 21:19 G	44893306.33	44893306.39	44893306.50	0.0089	0.0078
Venus	118201-10-23 13:53 G	44893383.89	44893384.08	44893384.28	0.0089	0.0043
Mercury	118201-11-03 00:27 G	44893394.42	44893394.52	44893394.64	0.0089	0.0069
Mercury	118202-01-30 03:34 G	44893482.52	44893482.65	44893482.78	0.0089	0.0060
Earth	118202-03-16 08:07 G	44893527.61	44893527.84	44893528.08	0.0089	0.0038
Moon	118202-03-16 11:29 G	44893527.77	44893527.98	44893528.22	0.0089	0.0043 *
Mercury	118202-04-28 06:12 G	44893570.63	44893570.76	44893570.92	0.0089	0.0052
Venus	118202-06-06 03:34 G	44893609.45	44893609.65	44893609.86	0.0089	0.0033
Mercury	118202-07-25 09:05 G	44893658.74	44893658.88	44893659.05	0.0089	0.0044
Mercury	118202-10-21 12:12 G	44893746.85	44893747.01	44893747.18	0.0089	0.0034
Mercury	118203-01-17 15:19 G	44893834.97	44893835.14	44893835.31	0.0089	0.0025
Venus	118203-01-17 17:15 G	44893835.01	44893835.22	44893835.44	0.0089	0.0024 *
Moon	118203-03-18 17:00 G	44893894.96	44893895.21	44893895.47	0.0089	0.0011
Earth	118203-03-18 20:36 G	44893895.11	44893895.36	44893895.62	0.0089	0.0015 *

Mercury	118203-04-15 17:58 G	44893923.09	44893923.25	44893923.44	0.0089	0.0018
Mercury	118203-07-12 21:05 G	44894011.21	44894011.38	44894011.56	0.0089	0.0008
Venus	118203-08-31 06:41 G	44894060.57	44894060.78	44894061.00	0.0089	0.0014
Mercury	118203-10-09 00:12 G	44894099.33	44894099.51	44894099.69	0.0089	0.0001
Mercury	118204-01-05 03:05 G	44894187.46	44894187.63	44894187.81	0.0089	0.0010
Earth	118204-03-20 08:51 G	44894262.62	44894262.87	44894263.14	0.0089	0.0010
Moon	118204-03-20 12:12 G	44894262.75	44894263.01	44894263.28	0.0089	0.0004 *
Mercury	118204-04-02 05:58 G	44894275.58	44894275.75	44894275.93	0.0089	0.0019
Venus	118204-04-12 20:07 G	44894286.12	44894286.34	44894286.57	0.0089	0.0005
Mercury	118204-06-29 09:05 G	44894363.71	44894363.88	44894364.05	0.0089	0.0028
Mercury	118204-09-25 11:58 G	44894451.85	44894452.00	44894452.17	0.0089	0.0037
Venus	118204-11-24 09:34 G	44894511.69	44894511.90	44894512.13	0.0089	0.0007
Mercury	118204-12-22 14:51 G	44894539.98	44894540.12	44894540.29	0.0089	0.0047
Mercury	118205-03-20 17:58 G	44894628.12	44894628.25	44894628.40	0.0089	0.0055
Moon	118205-03-22 19:24 G	44894630.10	44894630.31	44894630.55	0.0089	0.0038
Earth	118205-03-22 21:19 G	44894630.16	44894630.39	44894630.64	0.0089	0.0033 *
Mercury	118205-06-16 21:05 G	44894716.27	44894716.38	44894716.52	0.0089	0.0064
Venus	118205-07-07 23:15 G	44894737.25	44894737.47	44894737.69	0.0089	0.0015
Mercury	118205-09-13 00:12 G	44894804.42	44894804.51	44894804.62	0.0089	0.0073
Mercury	118205-12-10 03:19 G	44894892.58	44894892.64	44894892.71	0.0089	0.0083
Venus	118206-02-18 12:27 G	44894962.82	44894963.02	44894963.24	0.0089	0.0026
Earth	118206-03-25 09:19 G	44894997.71	44894997.89	44894998.11	0.0089	0.0057
Moon	118206-03-25 10:46 G	44894997.74	44894997.95	44894998.17	0.0089	0.0052 *
Venus	118206-10-02 01:39 G	44895188.38	44895188.57	44895188.79	0.0089	0.0036
Earth	118207-03-27 21:48 G	44895365.31	44895365.41	44895365.53	0.0089	0.0080
Moon	118207-03-27 22:17 G	44895365.37	44895365.43	44895365.52	0.0089	0.0085 *
Venus	118207-05-15 15:19 G	44895413.95	44895414.14	44895414.33	0.0089	0.0045
Venus	118207-12-27 04:31 G	44895639.53	44895639.69	44895639.88	0.0089	0.0055
Venus	118208-08-08 17:43 G	44895865.11	44895865.24	44895865.41	0.0089	0.0064
Venus	118209-03-22 07:10 G	44896090.69	44896090.80	44896090.94	0.0089	0.0074

Venus	118209-11-02 20:07 G	44896316.29	44896316.34	44896316.45	0.0089	0.0084
Mars	118231-11-12 08:51 G	44904360.75	44904360.87	44904361.06	0.0090	0.0078
Mars	118233-10-07 06:55 G	44905055.52	44905055.79	44905056.08	0.0090	0.0040
Venus	118280-03-24 18:55 G	44922026.21	44922026.29	44922026.39	0.0088	0.0080
Venus	118280-11-05 07:24 G	44922251.69	44922251.81	44922251.95	0.0088	0.0071
Venus	118281-06-18 19:53 G	44922477.19	44922477.33	44922477.50	0.0088	0.0062
Moon	118281-09-07 07:24 G	44922557.69	44922557.81	44922557.97	0.0088	0.0075
Earth	118281-09-07 10:17 G	44922557.81	44922557.93	44922558.10	0.0088	0.0073 *
Mercury	118281-12-11 18:55 G	44922653.26	44922653.29	44922653.34	0.0088	0.0085
Venus	118282-01-30 08:22 G	44922702.69	44922702.85	44922703.04	0.0088	0.0052
Mercury	118282-03-09 20:36 G	44922741.30	44922741.36	44922741.43	0.0088	0.0078
Mercury	118282-06-05 22:17 G	44922829.35	44922829.43	44922829.52	0.0088	0.0071
Mercury	118282-09-01 23:58 G	44922917.41	44922917.50	44922917.60	0.0088	0.0063
Earth	118282-09-09 21:05 G	44922925.19	44922925.38	44922925.61	0.0088	0.0050
Moon	118282-09-10 00:55 G	44922925.33	44922925.54	44922925.75	0.0088	0.0047 *
Venus	118282-09-12 20:51 G	44922928.19	44922928.37	44922928.57	0.0088	0.0043
Mercury	118282-11-29 01:39 G	44923005.46	44923005.57	44923005.68	0.0088	0.0056
Mercury	118283-02-25 03:19 G	44923093.52	44923093.64	44923093.76	0.0088	0.0049
Venus	118283-04-26 09:34 G	44923153.70	44923153.90	44923154.10	0.0088	0.0034
Mercury	118283-05-24 05:00 G	44923181.58	44923181.71	44923181.83	0.0088	0.0043
Mercury	118283-08-20 06:27 G	44923269.64	44923269.77	44923269.90	0.0088	0.0036
Moon	118283-09-12 04:46 G	44923292.47	44923292.70	44923292.95	0.0088	0.0029
Earth	118283-09-12 08:22 G	44923292.62	44923292.85	44923293.11	0.0088	0.0027 *
Mercury	118283-11-16 08:07 G	44923357.71	44923357.84	44923357.98	0.0088	0.0029
Venus	118283-12-07 21:48 G	44923379.21	44923379.41	44923379.63	0.0088	0.0025
Mercury	118284-02-12 09:34 G	44923445.77	44923445.90	44923446.05	0.0088	0.0022
Mercury	118284-05-10 11:15 G	44923533.83	44923533.97	44923534.11	0.0088	0.0015
Venus	118284-07-20 10:31 G	44923604.73	44923604.94	44923605.16	0.0088	0.0015
Mercury	118284-08-06 12:55 G	44923621.90	44923622.04	44923622.18	0.0088	0.0008
Earth	118284-09-13 19:24 G	44923660.05	44923660.31	44923660.56	0.0088	0.0004

Moon	118284-09-13 22:17 G	44923660.17	44923660.43	44923660.69	0.0088	0.0002	*
Mercury	118284-11-02 14:22 G	44923709.96	44923710.10	44923710.25	0.0088	0.0004	
Mercury	118285-01-29 16:03 G	44923798.03	44923798.17	44923798.31	0.0088	0.0006	
Venus	118285-03-02 23:00 G	44923830.25	44923830.46	44923830.68	0.0088	0.0006	
Mercury	118285-04-27 17:43 G	44923886.10	44923886.24	44923886.38	0.0088	0.0013	
Mercury	118285-07-24 19:10 G	44923974.16	44923974.30	44923974.44	0.0088	0.0019	
Moon	118285-09-16 03:34 G	44924027.42	44924027.65	44924027.91	0.0088	0.0017	
Earth	118285-09-16 06:12 G	44924027.51	44924027.76	44924028.01	0.0088	0.0019	*
Venus	118285-10-14 11:29 G	44924055.77	44924055.98	44924056.20	0.0088	0.0004	
Mercury	118285-10-20 20:36 G	44924062.23	44924062.36	44924062.50	0.0088	0.0026	
Mercury	118286-01-16 22:03 G	44924150.30	44924150.42	44924150.56	0.0088	0.0033	
Mercury	118286-04-14 23:58 G	44924238.37	44924238.50	44924238.62	0.0088	0.0039	
Venus	118286-05-27 23:58 G	44924281.29	44924281.50	44924281.72	0.0088	0.0013	
Mercury	118286-07-12 01:24 G	44924326.44	44924326.56	44924326.68	0.0088	0.0046	
Earth	118286-09-18 17:00 G	44924394.99	44924395.21	44924395.44	0.0088	0.0041	
Moon	118286-09-18 17:43 G	44924395.02	44924395.24	44924395.48	0.0088	0.0043	*
Mercury	118286-10-08 02:36 G	44924414.51	44924414.61	44924414.74	0.0088	0.0054	
Mercury	118287-01-04 04:31 G	44924502.59	44924502.69	44924502.79	0.0088	0.0059	
Venus	118287-01-08 12:27 G	44924506.82	44924507.02	44924507.24	0.0088	0.0022	
Mercury	118287-04-02 05:43 G	44924590.66	44924590.74	44924590.84	0.0088	0.0066	
Mercury	118287-06-29 07:10 G	44924678.74	44924678.80	44924678.89	0.0088	0.0073	
Venus	118287-08-22 01:10 G	44924732.35	44924732.55	44924732.76	0.0088	0.0031	
Earth	118287-09-21 03:34 G	44924762.50	44924762.65	44924762.85	0.0088	0.0064	
Moon	118287-09-21 04:17 G	44924762.53	44924762.68	44924762.88	0.0088	0.0063	*
Mercury	118287-09-25 08:51 G	44924766.82	44924766.87	44924766.94	0.0088	0.0079	
Mercury	118287-12-22 10:17 G	44924854.91	44924854.93	44924854.97	0.0088	0.0086	
Venus	118288-04-03 13:24 G	44924957.88	44924958.06	44924958.27	0.0088	0.0041	
Earth	118288-09-22 14:22 G	44925130.09	44925130.10	44925130.17	0.0088	0.0087	
Venus	118288-11-15 02:07 G	44925183.42	44925183.59	44925183.78	0.0088	0.0050	
Venus	118289-06-28 14:51 G	44925408.97	44925409.12	44925409.29	0.0088	0.0059	



Venus	118290-02-09 03:48 G	44925634.52	44925634.66	44925634.80	0.0088	0.0068
Venus	118290-09-22 15:48 G	44925860.08	44925860.16	44925860.29	0.0088	0.0078
Venus	118291-05-06 04:31 G	44926085.68	44926085.69	44926085.74	0.0088	0.0087
Mars	118315-06-13 05:43 G	44934888.43	44934888.74	44934889.06	0.0088	0.0005
Jupiter	118355-05-25 17:00 G	44949479.66	44949480.21	44949480.78	0.0089	0.0021
Venus	118363-08-07 15:19 G	44952476.09	44952476.14	44952476.23	0.0089	0.0084
Venus	118364-03-20 05:15 G	44952701.60	44952701.72	44952701.84	0.0089	0.0074
Venus	118364-10-31 18:27 G	44952927.14	44952927.27	44952927.44	0.0089	0.0065
Earth	118365-03-14 00:12 G	44953060.40	44953060.51	44953060.69	0.0089	0.0074
Moon	118365-03-14 02:51 G	44953060.46	44953060.62	44953060.79	0.0089	0.0069 *
Venus	118365-06-14 08:07 G	44953152.68	44953152.84	44953153.03	0.0089	0.0055
Venus	118366-01-25 21:48 G	44953378.23	44953378.41	44953378.61	0.0089	0.0046
Mercury	118366-02-05 16:31 G	44953389.15	44953389.19	44953389.26	0.0089	0.0084
Earth	118366-03-16 12:55 G	44953427.84	44953428.04	44953428.27	0.0089	0.0050
Moon	118366-03-16 12:41 G	44953427.85	44953428.03	44953428.24	0.0089	0.0055 *
Mercury	118366-05-04 19:39 G	44953477.23	44953477.32	44953477.42	0.0089	0.0075
Mercury	118366-07-31 22:17 G	44953565.33	44953565.43	44953565.56	0.0089	0.0067
Venus	118366-09-08 11:15 G	44953603.78	44953603.97	44953604.19	0.0089	0.0036
Mercury	118366-10-28 01:24 G	44953653.43	44953653.56	44953653.70	0.0089	0.0058
Mercury	118367-01-24 04:03 G	44953741.54	44953741.67	44953741.83	0.0089	0.0050
Moon	118367-03-19 00:12 G	44953795.26	44953795.51	44953795.78	0.0089	0.0022
Earth	118367-03-19 01:53 G	44953795.33	44953795.58	44953795.82	0.0089	0.0027 *
Venus	118367-04-22 00:55 G	44953829.33	44953829.54	44953829.76	0.0089	0.0026
Mercury	118367-04-22 07:10 G	44953829.65	44953829.80	44953829.96	0.0089	0.0041 *
Mercury	118367-07-19 10:03 G	44953917.76	44953917.92	44953918.09	0.0089	0.0032
Mercury	118367-10-15 13:10 G	44954005.88	44954006.05	44954006.22	0.0089	0.0023
Venus	118367-12-03 14:36 G	44954054.89	44954055.11	44954055.33	0.0089	0.0016
Mercury	118368-01-11 15:48 G	44954093.99	44954094.16	44954094.35	0.0089	0.0015
Earth	118368-03-20 14:07 G	44954162.83	44954163.09	44954163.35	0.0089	0.0003
Moon	118368-03-20 16:17 G	44954162.93	44954163.18	44954163.43	0.0089	0.0007 *

Mercury	118368-04-08 18:55 G	44954182.12	44954182.29	44954182.47	0.0089	0.0006
Mercury	118368-07-05 22:03 G	44954270.24	44954270.42	44954270.60	0.0089	0.0003
Venus	118368-07-16 04:17 G	44954280.45	44954280.68	44954280.90	0.0089	0.0007
Mercury	118368-10-02 00:55 G	44954358.36	44954358.54	44954358.72	0.0089	0.0012
Mercury	118368-12-29 03:48 G	44954446.49	44954446.66	44954446.84	0.0089	0.0021
Venus	118369-02-26 17:43 G	44954506.02	44954506.24	44954506.46	0.0089	0.0003
Moon	118369-03-22 23:00 G	44954530.22	44954530.46	44954530.72	0.0089	0.0026
Earth	118369-03-23 02:22 G	44954530.36	44954530.60	44954530.86	0.0089	0.0021 *
Mercury	118369-03-27 06:41 G	44954534.62	44954534.78	44954534.96	0.0089	0.0030
Mercury	118369-06-23 09:34 G	44954622.75	44954622.90	44954623.08	0.0089	0.0040
Mercury	118369-09-19 12:41 G	44954710.89	44954711.03	44954711.19	0.0089	0.0048
Venus	118369-10-10 06:55 G	44954731.58	44954731.79	44954732.02	0.0089	0.0014
Mercury	118369-12-16 15:34 G	44954799.03	44954799.15	44954799.31	0.0089	0.0058
Mercury	118370-03-14 18:41 G	44954887.18	44954887.28	44954887.42	0.0089	0.0066
Earth	118370-03-25 15:05 G	44954897.90	44954898.13	44954898.35	0.0089	0.0045
Moon	118370-03-25 18:12 G	44954898.04	44954898.26	44954898.50	0.0089	0.0040 *
Venus	118370-05-23 20:22 G	44954957.15	44954957.35	44954957.57	0.0089	0.0023
Mercury	118370-06-10 21:48 G	44954975.33	44954975.41	44954975.52	0.0089	0.0075
Mercury	118370-09-07 00:55 G	44955063.50	44955063.54	44955063.61	0.0089	0.0084
Venus	118371-01-04 10:03 G	44955182.72	44955182.92	44955183.13	0.0089	0.0033
Moon	118371-03-27 23:58 G	44955265.35	44955265.50	44955265.64	0.0089	0.0073
Earth	118371-03-28 02:51 G	44955265.47	44955265.62	44955265.80	0.0089	0.0068 *
Venus	118371-08-17 23:15 G	44955408.29	44955408.47	44955408.68	0.0089	0.0043
Moon	118372-03-29 17:58 G	44955633.20	44955633.25	44955633.32	0.0089	0.0087
Venus	118372-03-30 12:27 G	44955633.86	44955634.02	44955634.22	0.0089	0.0052
Venus	118372-11-11 01:53 G	44955859.43	44955859.58	44955859.75	0.0089	0.0062
Venus	118373-06-24 15:05 G	44956085.02	44956085.13	44956085.28	0.0089	0.0072
Venus	118374-02-05 04:46 G	44956310.62	44956310.70	44956310.80	0.0089	0.0081
Mars	118397-05-22 14:07 G	44964817.78	44964818.09	44964818.40	0.0090	0.0011
Venus	118444-06-27 04:03 G	44982020.60	44982020.67	44982020.76	0.0088	0.0082

Venus	118445-02-07 16:31 G	44982246.07	44982246.19	44982246.32	0.0088	0.0073
Moon	118445-09-07 13:24 G	44982457.99	44982458.06	44982458.19	0.0088	0.0082
Earth	118445-09-07 16:17 G	44982458.12	44982458.18	44982458.28	0.0088	0.0084 *
Venus	118445-09-21 04:46 G	44982471.56	44982471.70	44982471.86	0.0088	0.0064
Venus	118446-05-04 17:15 G	44982697.06	44982697.22	44982697.40	0.0088	0.0054
Mercury	118446-09-08 17:43 G	44982824.20	44982824.24	44982824.29	0.0088	0.0083
Earth	118446-09-10 03:34 G	44982825.47	44982825.65	44982825.84	0.0088	0.0061
Moon	118446-09-10 06:55 G	44982825.62	44982825.79	44982825.97	0.0088	0.0064 *
Mercury	118446-12-05 19:10 G	44982912.25	44982912.30	44982912.39	0.0088	0.0077
Venus	118446-12-16 05:43 G	44982922.56	44982922.74	44982922.94	0.0088	0.0045
Mercury	118447-03-03 20:51 G	44983000.30	44983000.37	44983000.48	0.0088	0.0070
Mercury	118447-05-30 22:31 G	44983088.36	44983088.44	44983088.56	0.0088	0.0063
Venus	118447-07-29 18:12 G	44983148.08	44983148.26	44983148.47	0.0088	0.0036
Mercury	118447-08-27 00:12 G	44983176.41	44983176.51	44983176.64	0.0088	0.0056
Moon	118447-09-12 10:46 G	44983192.73	44983192.95	44983193.20	0.0088	0.0036
Earth	118447-09-12 14:07 G	44983192.87	44983193.09	44983193.34	0.0088	0.0038 *
Mercury	118447-11-23 01:53 G	44983264.47	44983264.58	44983264.71	0.0088	0.0049
Mercury	118448-02-19 03:34 G	44983352.53	44983352.65	44983352.79	0.0088	0.0041
Venus	118448-03-11 06:55 G	44983373.59	44983373.79	44983374.00	0.0088	0.0027
Mercury	118448-05-17 05:15 G	44983440.60	44983440.72	44983440.86	0.0088	0.0034
Mercury	118448-08-13 06:55 G	44983528.66	44983528.79	44983528.93	0.0088	0.0027
Earth	118448-09-14 00:55 G	44983560.30	44983560.54	44983560.81	0.0088	0.0016
Moon	118448-09-14 04:31 G	44983560.44	44983560.69	44983560.95	0.0088	0.0018 *
Venus	118448-10-22 19:24 G	44983599.10	44983599.31	44983599.53	0.0088	0.0017
Mercury	118448-11-09 08:36 G	44983616.72	44983616.86	44983617.00	0.0088	0.0020
Mercury	118449-02-05 10:17 G	44983704.79	44983704.93	44983705.07	0.0088	0.0013
Mercury	118449-05-04 11:43 G	44983792.85	44983792.99	44983793.14	0.0088	0.0007
Venus	118449-06-05 07:53 G	44983824.62	44983824.83	44983825.05	0.0088	0.0008
Mercury	118449-07-31 13:24 G	44983880.92	44983881.06	44983881.20	0.0088	0.0001
Moon	118449-09-16 10:03 G	44983927.67	44983927.92	44983928.17	0.0088	0.0011

Earth	118449-09-16 11:58 G	44983927.75	44983928.00	44983928.26	0.0088	0.0008	*
Mercury	118449-10-27 15:05 G	44983968.99	44983969.13	44983969.27	0.0088	0.0007	
Venus	118450-01-16 20:36 G	44984050.14	44984050.36	44984050.58	0.0088	0.0002	
Mercury	118450-01-23 16:31 G	44984057.05	44984057.19	44984057.33	0.0088	0.0014	
Mercury	118450-04-21 17:58 G	44984145.12	44984145.25	44984145.40	0.0088	0.0021	
Mercury	118450-07-18 19:39 G	44984233.19	44984233.32	44984233.46	0.0088	0.0028	
Venus	118450-08-30 08:51 G	44984275.66	44984275.87	44984276.09	0.0088	0.0011	
Earth	118450-09-18 23:00 G	44984295.22	44984295.46	44984295.70	0.0088	0.0031	
Moon	118450-09-18 23:43 G	44984295.25	44984295.49	44984295.76	0.0088	0.0028	*
Mercury	118450-10-14 21:19 G	44984321.26	44984321.39	44984321.52	0.0088	0.0034	
Mercury	118451-01-10 22:46 G	44984409.33	44984409.45	44984409.58	0.0088	0.0041	
Mercury	118451-04-09 00:12 G	44984497.40	44984497.51	44984497.64	0.0088	0.0048	
Venus	118451-04-12 21:19 G	44984501.18	44984501.39	44984501.61	0.0088	0.0020	
Mercury	118451-07-06 01:53 G	44984585.47	44984585.58	44984585.69	0.0088	0.0054	
Earth	118451-09-21 09:34 G	44984662.71	44984662.90	44984663.12	0.0088	0.0053	
Moon	118451-09-21 09:48 G	44984662.73	44984662.91	44984663.12	0.0088	0.0056	*
Mercury	118451-10-02 03:19 G	44984673.55	44984673.64	44984673.75	0.0088	0.0061	
Venus	118451-11-24 09:48 G	44984726.71	44984726.91	44984727.12	0.0088	0.0029	
Mercury	118451-12-29 04:46 G	44984761.62	44984761.70	44984761.80	0.0088	0.0068	
Mercury	118452-03-26 06:27 G	44984849.70	44984849.77	44984849.85	0.0088	0.0074	
Mercury	118452-06-22 07:39 G	44984937.78	44984937.82	44984937.89	0.0088	0.0081	
Venus	118452-07-06 22:46 G	44984952.25	44984952.45	44984952.64	0.0088	0.0039	
Mercury	118452-09-18 09:19 G	44985025.89	44985025.89	44985025.91	0.0088	0.0088	
Moon	118452-09-22 17:58 G	44985030.12	44985030.25	44985030.42	0.0088	0.0073	
Earth	118452-09-22 20:07 G	44985030.24	44985030.34	44985030.50	0.0088	0.0076	*
Venus	118453-02-17 10:46 G	44985177.79	44985177.95	44985178.15	0.0088	0.0048	
Venus	118453-09-30 23:29 G	44985403.33	44985403.48	44985403.66	0.0088	0.0057	
Venus	118454-05-14 11:58 G	44985628.87	44985629.00	44985629.16	0.0088	0.0066	
Venus	118454-12-26 00:55 G	44985854.43	44985854.54	44985854.65	0.0088	0.0075	
Venus	118455-08-08 13:10 G	44986080.02	44986080.05	44986080.13	0.0088	0.0085	

Mars	118479-01-25 19:39 G	44994651.05	44994651.32	44994651.60	0.0088	0.0041
Mars	118480-12-20 08:51 G	44995345.71	44995345.87	44995346.09	0.0088	0.0070
Jupiter	118521-08-02 02:22 G	45010179.03	45010179.60	45010180.18	0.0089	0.0001
Venus	118527-11-09 23:15 G	45012470.43	45012470.47	45012470.54	0.0089	0.0086
Venus	118528-06-22 12:41 G	45012695.94	45012696.03	45012696.16	0.0089	0.0077
Venus	118529-02-03 02:22 G	45012921.47	45012921.60	45012921.76	0.0089	0.0067
Earth	118529-03-14 05:29 G	45012960.68	45012960.73	45012960.83	0.0089	0.0085
Moon	118529-03-14 07:53 G	45012960.72	45012960.83	45012960.93	0.0089	0.0081 *
Venus	118529-09-16 16:17 G	45013147.01	45013147.18	45013147.35	0.0089	0.0057
Moon	118530-03-16 17:29 G	45013328.08	45013328.23	45013328.43	0.0089	0.0065
Earth	118530-03-16 18:27 G	45013328.09	45013328.27	45013328.46	0.0089	0.0061 *
Venus	118530-04-30 05:29 G	45013372.56	45013372.73	45013372.93	0.0089	0.0048
Mercury	118530-11-03 14:22 G	45013560.05	45013560.10	45013560.19	0.0089	0.0082
Venus	118530-12-11 19:10 G	45013598.11	45013598.30	45013598.51	0.0089	0.0038
Mercury	118531-01-30 17:29 G	45013648.14	45013648.23	45013648.33	0.0089	0.0073
Moon	118531-03-19 06:12 G	45013695.51	45013695.76	45013696.01	0.0089	0.0034
Earth	118531-03-19 06:27 G	45013695.56	45013695.77	45013696.02	0.0089	0.0038 *
Mercury	118531-04-28 20:07 G	45013736.24	45013736.34	45013736.47	0.0089	0.0065
Venus	118531-07-25 08:51 G	45013823.67	45013823.87	45013824.09	0.0089	0.0028
Mercury	118531-07-25 23:15 G	45013824.34	45013824.47	45013824.61	0.0089	0.0056
Mercury	118531-10-22 01:53 G	45013912.45	45013912.58	45013912.74	0.0089	0.0048
Mercury	118532-01-18 04:46 G	45014000.56	45014000.70	45014000.87	0.0089	0.0040
Venus	118532-03-06 22:31 G	45014049.22	45014049.44	45014049.66	0.0089	0.0018
Earth	118532-03-20 19:10 G	45014063.05	45014063.30	45014063.56	0.0089	0.0014
Moon	118532-03-20 21:34 G	45014063.16	45014063.40	45014063.65	0.0089	0.0017 *
Mercury	118532-04-15 07:53 G	45014088.67	45014088.83	45014089.00	0.0089	0.0030
Mercury	118532-07-12 11:00 G	45014176.78	45014176.96	45014177.13	0.0089	0.0022
Mercury	118532-10-08 13:39 G	45014264.90	45014265.07	45014265.25	0.0089	0.0013
Venus	118532-10-18 11:43 G	45014274.78	45014274.99	45014275.22	0.0089	0.0009
Mercury	118533-01-04 16:46 G	45014353.02	45014353.20	45014353.38	0.0089	0.0004

Moon	118533-03-23 04:31 G	45014430.44	45014430.69	45014430.96	0.0089	0.0012
Earth	118533-03-23 07:53 G	45014430.57	45014430.83	45014431.08	0.0089	0.0009 *
Mercury	118533-04-02 19:39 G	45014441.15	45014441.32	45014441.50	0.0089	0.0005
Venus	118533-06-01 01:24 G	45014500.34	45014500.56	45014500.78	0.0089	0.0001
Mercury	118533-06-29 22:31 G	45014529.27	45014529.44	45014529.62	0.0089	0.0014
Mercury	118533-09-26 01:24 G	45014617.40	45014617.56	45014617.74	0.0089	0.0023
Mercury	118533-12-23 04:31 G	45014705.53	45014705.69	45014705.86	0.0089	0.0032
Venus	118534-01-12 15:05 G	45014725.91	45014726.13	45014726.35	0.0089	0.0011
Mercury	118534-03-21 07:24 G	45014793.66	45014793.81	45014793.98	0.0089	0.0041
Earth	118534-03-25 19:39 G	45014798.10	45014798.32	45014798.58	0.0089	0.0033
Moon	118534-03-25 23:29 G	45014798.24	45014798.48	45014798.73	0.0089	0.0029 *
Mercury	118534-06-17 10:17 G	45014881.80	45014881.93	45014882.10	0.0089	0.0050
Venus	118534-08-26 04:31 G	45014951.48	45014951.69	45014951.91	0.0089	0.0021
Mercury	118534-09-13 13:24 G	45014969.94	45014970.06	45014970.21	0.0089	0.0059
Mercury	118534-12-10 16:17 G	45015058.09	45015058.18	45015058.32	0.0089	0.0069
Mercury	118535-03-08 19:24 G	45015146.24	45015146.31	45015146.42	0.0089	0.0077
Moon	118535-03-28 04:46 G	45015165.53	45015165.70	45015165.90	0.0089	0.0060
Earth	118535-03-28 08:22 G	45015165.66	45015165.85	45015166.06	0.0089	0.0057 *
Venus	118535-04-08 17:58 G	45015177.04	45015177.25	45015177.46	0.0089	0.0030
Mercury	118535-06-04 22:31 G	45015234.41	45015234.44	45015234.50	0.0089	0.0086
Venus	118535-11-20 07:10 G	45015402.62	45015402.80	45015403.01	0.0089	0.0040
Earth	118536-03-29 20:22 G	45015533.26	45015533.35	45015533.48	0.0089	0.0081
Moon	118536-03-29 23:00 G	45015533.36	45015533.46	45015533.62	0.0089	0.0078 *
Venus	118536-07-02 20:51 G	45015628.19	45015628.37	45015628.56	0.0089	0.0050
Venus	118537-02-13 10:17 G	45015853.77	45015853.93	45015854.10	0.0089	0.0059
Venus	118537-09-26 23:15 G	45016079.36	45016079.47	45016079.63	0.0089	0.0070
Venus	118538-05-10 12:55 G	45016304.95	45016305.04	45016305.15	0.0089	0.0079
Venus	118538-12-22 01:53 G	45016530.58	45016530.58	45016530.64	0.0089	0.0089
Mars	118561-01-04 17:00 G	45024580.02	45024580.21	45024580.46	0.0090	0.0064
Mars	118562-11-30 17:29 G	45025275.01	45025275.23	45025275.50	0.0090	0.0056

Venus	118608-09-30 12:55 G	45042014.98	45042015.04	45042015.11	0.0088	0.0084
Venus	118609-05-14 01:10 G	45042240.45	45042240.55	45042240.67	0.0088	0.0075
Venus	118609-12-25 13:39 G	45042465.94	45042466.07	45042466.22	0.0088	0.0066
Venus	118610-08-08 02:07 G	45042691.44	45042691.59	45042691.77	0.0088	0.0056
Earth	118610-09-11 09:05 G	45042725.74	45042725.88	45042726.04	0.0088	0.0072
Moon	118610-09-11 11:58 G	45042725.89	45042726.00	45042726.14	0.0088	0.0077 *
Venus	118611-03-21 14:36 G	45042916.94	45042917.11	45042917.31	0.0088	0.0047
Mercury	118611-06-07 16:31 G	45042995.15	45042995.19	45042995.25	0.0088	0.0082
Mercury	118611-09-03 18:12 G	45043083.19	45043083.26	45043083.35	0.0088	0.0075
Moon	118611-09-13 16:17 G	45043092.97	45043093.18	45043093.42	0.0088	0.0044
Earth	118611-09-13 19:53 G	45043093.14	45043093.33	45043093.56	0.0088	0.0050 *
Venus	118611-11-02 03:19 G	45043142.45	45043142.64	45043142.84	0.0088	0.0038
Mercury	118611-11-30 19:53 G	45043171.25	45043171.33	45043171.43	0.0088	0.0068
Mercury	118612-02-26 21:34 G	45043259.30	45043259.40	45043259.51	0.0088	0.0060
Mercury	118612-05-24 23:15 G	45043347.36	45043347.47	45043347.59	0.0088	0.0053
Venus	118612-06-14 15:48 G	45043367.96	45043368.16	45043368.38	0.0088	0.0029
Mercury	118612-08-21 00:55 G	45043435.42	45043435.54	45043435.67	0.0088	0.0046
Earth	118612-09-15 06:55 G	45043460.56	45043460.79	45043461.05	0.0088	0.0026
Moon	118612-09-15 10:03 G	45043460.69	45043460.92	45043461.18	0.0088	0.0031 *
Mercury	118612-11-17 02:36 G	45043523.49	45043523.61	45043523.74	0.0088	0.0039
Venus	118613-01-26 04:17 G	45043593.48	45043593.68	45043593.90	0.0088	0.0020
Mercury	118613-02-13 04:17 G	45043611.55	45043611.68	45043611.82	0.0088	0.0032
Mercury	118613-05-12 05:58 G	45043699.61	45043699.75	45043699.89	0.0088	0.0025
Mercury	118613-08-08 07:39 G	45043787.68	45043787.82	45043787.96	0.0088	0.0018
Venus	118613-09-08 16:46 G	45043818.99	45043819.20	45043819.43	0.0088	0.0011
Moon	118613-09-17 15:34 G	45043827.90	45043828.15	45043828.40	0.0088	0.0002
Earth	118613-09-17 18:12 G	45043828.01	45043828.26	45043828.52	0.0088	0.0004 *
Mercury	118613-11-04 09:05 G	45043875.74	45043875.88	45043876.03	0.0088	0.0012
Mercury	118614-01-31 10:46 G	45043963.81	45043963.95	45043964.09	0.0088	0.0005
Venus	118614-04-22 05:29 G	45044044.51	45044044.73	45044044.95	0.0088	0.0001

Mercury	118614-04-29 12:27 G	45044051.88	45044052.02	45044052.16	0.0088	0.0002
Mercury	118614-07-26 13:53 G	45044139.94	45044140.08	45044140.23	0.0088	0.0010
Earth	118614-09-20 05:15 G	45044195.47	45044195.72	45044195.97	0.0088	0.0020
Moon	118614-09-20 06:27 G	45044195.52	45044195.77	45044196.04	0.0088	0.0015 *
Mercury	118614-10-22 15:34 G	45044228.01	45044228.15	45044228.29	0.0088	0.0016
Venus	118614-12-03 17:58 G	45044270.03	45044270.25	45044270.47	0.0088	0.0009
Mercury	118615-01-18 17:00 G	45044316.08	45044316.21	45044316.35	0.0088	0.0023
Mercury	118615-04-16 18:41 G	45044404.15	45044404.28	45044404.42	0.0088	0.0030
Mercury	118615-07-13 20:07 G	45044492.22	45044492.34	45044492.48	0.0088	0.0037
Venus	118615-07-17 06:27 G	45044495.56	45044495.77	45044495.99	0.0088	0.0018
Earth	118615-09-22 15:48 G	45044562.95	45044563.16	45044563.40	0.0088	0.0043
Moon	118615-09-22 16:03 G	45044562.98	45044563.17	45044563.40	0.0088	0.0047 *
Mercury	118615-10-09 21:34 G	45044580.29	45044580.40	45044580.54	0.0088	0.0044
Mercury	118616-01-05 23:15 G	45044668.36	45044668.47	45044668.59	0.0088	0.0050
Venus	118616-02-27 19:10 G	45044721.09	45044721.30	45044721.51	0.0088	0.0027
Mercury	118616-04-03 00:55 G	45044756.43	45044756.54	45044756.65	0.0088	0.0056
Mercury	118616-06-30 02:07 G	45044844.51	45044844.59	45044844.70	0.0088	0.0064
Moon	118616-09-24 00:55 G	45044930.38	45044930.54	45044930.76	0.0088	0.0061
Earth	118616-09-24 02:36 G	45044930.46	45044930.61	45044930.80	0.0088	0.0065 *
Mercury	118616-09-26 04:03 G	45044932.58	45044932.67	45044932.75	0.0088	0.0070
Venus	118616-10-10 07:39 G	45044946.62	45044946.82	45044947.02	0.0088	0.0037
Mercury	118616-12-23 05:15 G	45045020.66	45045020.72	45045020.80	0.0088	0.0077
Mercury	118617-03-21 06:41 G	45045108.75	45045108.78	45045108.84	0.0088	0.0083
Venus	118617-05-23 19:53 G	45045172.16	45045172.33	45045172.53	0.0088	0.0046
Earth	118617-09-26 13:24 G	45045298.06	45045298.06	45045298.11	0.0088	0.0088
Venus	118618-01-04 08:22 G	45045397.69	45045397.85	45045398.04	0.0088	0.0055
Venus	118618-08-17 21:05 G	45045623.24	45045623.38	45045623.54	0.0088	0.0064
Venus	118619-03-31 09:48 G	45045848.80	45045848.91	45045849.03	0.0088	0.0074
Venus	118619-11-11 21:48 G	45046074.37	45046074.41	45046074.51	0.0088	0.0083
Mars	118642-09-11 11:58 G	45054413.96	45054414.00	45054414.08	0.0088	0.0086



Mars	118644-08-05 23:43 G	45055108.19	45055108.49	45055108.80	0.0088	0.0023
Jupiter	118687-10-06 14:36 G	45070874.58	45070875.11	45070875.70	0.0089	0.0020
Venus	118692-02-12 07:39 G	45072464.81	45072464.82	45072464.86	0.0089	0.0088
Venus	118692-09-24 20:51 G	45072690.30	45072690.37	45072690.50	0.0089	0.0079
Venus	118693-05-08 10:46 G	45072915.82	45072915.95	45072916.10	0.0089	0.0069
Venus	118693-12-20 00:41 G	45073141.37	45073141.53	45073141.70	0.0089	0.0059
Moon	118694-03-16 23:15 G	45073228.33	45073228.47	45073228.63	0.0089	0.0071
Earth	118694-03-16 23:43 G	45073228.37	45073228.49	45073228.67	0.0089	0.0073 *
Venus	118694-08-02 13:53 G	45073366.91	45073367.08	45073367.28	0.0089	0.0050
Venus	118695-03-16 03:19 G	45073592.46	45073592.64	45073592.85	0.0089	0.0040
Moon	118695-03-19 11:29 G	45073595.78	45073595.98	45073596.21	0.0089	0.0051
Earth	118695-03-19 12:27 G	45073595.82	45073596.02	45073596.25	0.0089	0.0049 *
Mercury	118695-05-05 09:34 G	45073642.90	45073642.90	45073642.95	0.0089	0.0088
Mercury	118695-08-01 12:41 G	45073730.96	45073731.03	45073731.12	0.0089	0.0079
Venus	118695-10-27 17:00 G	45073818.01	45073818.21	45073818.42	0.0089	0.0030
Mercury	118695-10-28 15:19 G	45073819.05	45073819.14	45073819.26	0.0089	0.0071
Mercury	118696-01-24 18:27 G	45073907.15	45073907.27	45073907.40	0.0089	0.0062
Earth	118696-03-21 00:41 G	45073963.30	45073963.53	45073963.80	0.0089	0.0026
Moon	118696-03-21 02:36 G	45073963.38	45073963.61	45073963.86	0.0089	0.0024 *
Mercury	118696-04-21 21:05 G	45073995.25	45073995.38	45073995.53	0.0089	0.0054
Venus	118696-06-09 06:27 G	45074043.56	45074043.77	45074043.99	0.0089	0.0021
Mercury	118696-07-18 23:58 G	45074083.36	45074083.50	45074083.66	0.0089	0.0045
Mercury	118696-10-15 03:05 G	45074171.47	45074171.63	45074171.79	0.0089	0.0037
Mercury	118697-01-11 05:43 G	45074259.58	45074259.74	45074259.92	0.0089	0.0028
Venus	118697-01-20 20:07 G	45074269.12	45074269.34	45074269.56	0.0089	0.0011
Moon	118697-03-23 10:17 G	45074330.67	45074330.93	45074331.19	0.0089	0.0004
Earth	118697-03-23 13:24 G	45074330.80	45074331.06	45074331.32	0.0089	0.0002 *
Mercury	118697-04-09 08:51 G	45074347.70	45074347.87	45074348.04	0.0089	0.0019
Mercury	118697-07-06 11:43 G	45074435.82	45074435.99	45074436.17	0.0089	0.0010
Venus	118697-09-03 09:34 G	45074494.68	45074494.90	45074495.13	0.0089	0.0003

Mercury	118697-10-02 14:36 G	45074523.94	45074524.11	45074524.29	0.0089	0.0003
Mercury	118697-12-29 17:43 G	45074612.06	45074612.24	45074612.41	0.0089	0.0007
Earth	118698-03-26 01:39 G	45074698.32	45074698.57	45074698.82	0.0089	0.0022
Moon	118698-03-26 05:00 G	45074698.47	45074698.71	45074698.96	0.0089	0.0024 *
Mercury	118698-03-27 20:36 G	45074700.18	45074700.36	45074700.54	0.0089	0.0016
Venus	118698-04-16 23:00 G	45074720.24	45074720.46	45074720.69	0.0089	0.0009
Mercury	118698-06-23 23:29 G	45074788.31	45074788.48	45074788.65	0.0089	0.0025
Mercury	118698-09-20 02:22 G	45074876.44	45074876.60	45074876.77	0.0089	0.0034
Venus	118698-11-28 12:27 G	45074945.81	45074946.02	45074946.24	0.0089	0.0018
Mercury	118698-12-17 05:15 G	45074964.58	45074964.72	45074964.89	0.0089	0.0043
Mercury	118699-03-15 08:07 G	45075052.71	45075052.84	45075053.00	0.0089	0.0052
Moon	118699-03-28 10:03 G	45075065.72	45075065.92	45075066.16	0.0089	0.0044
Earth	118699-03-28 13:39 G	45075065.86	45075066.07	45075066.31	0.0089	0.0046 *
Mercury	118699-06-11 11:15 G	45075140.85	45075140.97	45075141.11	0.0089	0.0061
Venus	118699-07-12 01:53 G	45075171.38	45075171.58	45075171.80	0.0089	0.0028
Mercury	118699-09-07 14:07 G	45075229.00	45075229.09	45075229.22	0.0089	0.0070
Mercury	118699-12-04 17:15 G	45075317.16	45075317.22	45075317.32	0.0089	0.0079
Venus	118700-02-22 15:19 G	45075396.95	45075397.14	45075397.35	0.0089	0.0038
Mercury	118700-03-02 20:22 G	45075405.34	45075405.35	45075405.39	0.0089	0.0088
Earth	118700-03-31 01:39 G	45075433.43	45075433.57	45075433.76	0.0089	0.0069
Moon	118700-03-31 05:15 G	45075433.57	45075433.72	45075433.89	0.0089	0.0071 *
Venus	118700-10-06 04:46 G	45075622.52	45075622.70	45075622.90	0.0089	0.0048
Venus	118701-05-19 17:58 G	45075848.10	45075848.25	45075848.44	0.0089	0.0058
Venus	118701-12-31 07:53 G	45076073.69	45076073.83	45076073.98	0.0089	0.0067
Venus	118702-08-13 21:05 G	45076299.28	45076299.38	45076299.50	0.0089	0.0076
Venus	118703-03-27 10:03 G	45076524.89	45076524.92	45076525.01	0.0089	0.0087
Mars	118726-07-16 22:31 G	45085037.13	45085037.44	45085037.76	0.0090	0.0005
Venus	118773-01-02 21:19 G	45102009.36	45102009.39	45102009.46	0.0088	0.0086
Venus	118773-08-16 10:17 G	45102234.82	45102234.93	45102235.03	0.0088	0.0077
Venus	118774-03-29 22:31 G	45102460.31	45102460.44	45102460.58	0.0088	0.0068

Earth	118774-09-11 14:51 G	45102626.04	45102626.12	45102626.21	0.0088	0.0083
Moon	118774-09-11 17:58 G	45102626.19	45102626.25	45102626.33	0.0088	0.0085 *
Venus	118774-11-10 10:46 G	45102685.80	45102685.95	45102686.12	0.0088	0.0059
Venus	118775-06-23 23:15 G	45102911.31	45102911.47	45102911.67	0.0088	0.0050
Moon	118775-09-13 22:03 G	45102993.24	45102993.42	45102993.63	0.0088	0.0059
Earth	118775-09-14 01:10 G	45102993.39	45102993.55	45102993.76	0.0088	0.0061 *
Mercury	118775-12-07 13:39 G	45103078.06	45103078.07	45103078.10	0.0088	0.0087
Venus	118776-02-04 11:43 G	45103136.81	45103136.99	45103137.20	0.0088	0.0041
Mercury	118776-03-04 15:19 G	45103166.09	45103166.14	45103166.21	0.0088	0.0080
Mercury	118776-05-31 17:00 G	45103254.14	45103254.21	45103254.30	0.0088	0.0073
Mercury	118776-08-27 18:41 G	45103342.19	45103342.28	45103342.38	0.0088	0.0066
Earth	118776-09-15 12:27 G	45103360.80	45103361.02	45103361.27	0.0088	0.0038
Moon	118776-09-15 15:48 G	45103360.95	45103361.16	45103361.42	0.0088	0.0041 *
Venus	118776-09-17 00:41 G	45103362.32	45103362.53	45103362.73	0.0088	0.0031
Mercury	118776-11-23 20:22 G	45103430.25	45103430.35	45103430.46	0.0088	0.0059
Mercury	118777-02-19 22:03 G	45103518.31	45103518.42	45103518.54	0.0088	0.0052
Venus	118777-04-30 12:55 G	45103587.84	45103588.04	45103588.26	0.0088	0.0022
Mercury	118777-05-18 23:43 G	45103606.37	45103606.49	45103606.62	0.0088	0.0045
Mercury	118777-08-15 01:24 G	45103694.43	45103694.56	45103694.69	0.0088	0.0038
Moon	118777-09-17 21:19 G	45103728.14	45103728.39	45103728.64	0.0088	0.0013
Earth	118777-09-17 23:58 G	45103728.25	45103728.50	45103728.75	0.0088	0.0014 *
Mercury	118777-11-11 03:05 G	45103782.50	45103782.63	45103782.77	0.0088	0.0031
Venus	118777-12-12 01:24 G	45103813.35	45103813.56	45103813.79	0.0088	0.0013
Mercury	118778-02-07 04:46 G	45103870.56	45103870.70	45103870.84	0.0088	0.0024
Mercury	118778-05-06 06:27 G	45103958.63	45103958.77	45103958.91	0.0088	0.0017
Venus	118778-07-25 14:22 G	45104038.88	45104039.10	45104039.32	0.0088	0.0003
Mercury	118778-08-02 08:07 G	45104046.70	45104046.84	45104046.98	0.0088	0.0010
Earth	118778-09-20 10:46 G	45104095.70	45104095.95	45104096.21	0.0088	0.0009
Moon	118778-09-20 12:12 G	45104095.75	45104096.01	45104096.28	0.0088	0.0007 *
Mercury	118778-10-29 09:34 G	45104134.76	45104134.90	45104135.05	0.0088	0.0004

Mercury	118779-01-25 11:15 G	45104222.83	45104222.97	45104223.11	0.0088	0.0004
Venus	118779-03-08 02:51 G	45104264.40	45104264.62	45104264.84	0.0088	0.0007
Mercury	118779-04-23 12:55 G	45104310.90	45104311.04	45104311.18	0.0088	0.0011
Mercury	118779-07-20 14:36 G	45104398.97	45104399.11	45104399.24	0.0088	0.0018
Moon	118779-09-22 21:05 G	45104463.16	45104463.38	45104463.62	0.0088	0.0033
Earth	118779-09-22 21:34 G	45104463.17	45104463.40	45104463.65	0.0088	0.0032 *
Mercury	118779-10-16 16:03 G	45104487.03	45104487.17	45104487.31	0.0088	0.0024
Venus	118779-10-19 15:05 G	45104489.93	45104490.13	45104490.36	0.0088	0.0016
Mercury	118780-01-12 17:29 G	45104575.10	45104575.23	45104575.37	0.0088	0.0031
Mercury	118780-04-09 18:55 G	45104663.18	45104663.29	45104663.43	0.0088	0.0039
Venus	118780-06-01 03:48 G	45104715.45	45104715.66	45104715.87	0.0088	0.0025
Mercury	118780-07-06 20:51 G	45104751.25	45104751.37	45104751.49	0.0088	0.0045
Moon	118780-09-24 06:55 G	45104830.59	45104830.79	45104831.02	0.0088	0.0054
Earth	118780-09-24 08:36 G	45104830.67	45104830.86	45104831.07	0.0088	0.0054 *
Mercury	118780-10-02 22:17 G	45104839.32	45104839.43	45104839.55	0.0088	0.0051
Mercury	118780-12-29 23:43 G	45104927.39	45104927.49	45104927.60	0.0088	0.0058
Venus	118781-01-12 16:31 G	45104940.99	45104941.19	45104941.39	0.0088	0.0035
Mercury	118781-03-28 01:24 G	45105015.47	45105015.56	45105015.66	0.0088	0.0065
Mercury	118781-06-24 02:51 G	45105103.54	45105103.62	45105103.71	0.0088	0.0071
Venus	118781-08-26 04:46 G	45105166.52	45105166.70	45105166.90	0.0088	0.0044
Mercury	118781-09-20 04:17 G	45105191.63	45105191.68	45105191.75	0.0088	0.0078
Earth	118781-09-26 19:10 G	45105198.20	45105198.30	45105198.45	0.0088	0.0077
Moon	118781-09-26 21:34 G	45105198.31	45105198.40	45105198.55	0.0088	0.0078 *
Mercury	118781-12-17 05:58 G	45105279.72	45105279.75	45105279.79	0.0088	0.0084
Venus	118782-04-08 17:15 G	45105392.06	45105392.22	45105392.41	0.0088	0.0053
Venus	118782-11-20 05:58 G	45105617.60	45105617.75	45105617.91	0.0088	0.0062
Venus	118783-07-03 18:12 G	45105843.16	45105843.26	45105843.41	0.0088	0.0072
Venus	118784-02-14 06:55 G	45106068.73	45106068.79	45106068.90	0.0088	0.0081
Mars	118808-03-21 13:53 G	45114870.80	45114871.08	45114871.40	0.0088	0.0023
Mars	118810-02-14 02:07 G	45115565.59	45115565.59	45115565.62	0.0088	0.0088

Jupiter	118853-12-07 21:34 G	45131567.94	45131568.40	45131568.95	0.0089	0.0043
Venus	118856-12-28 05:29 G	45132684.66	45132684.73	45132684.85	0.0089	0.0081
Venus	118857-08-10 19:10 G	45132910.19	45132910.30	45132910.46	0.0089	0.0071
Moon	118858-03-17 05:00 G	45133128.63	45133128.71	45133128.85	0.0089	0.0080
Earth	118858-03-17 05:58 G	45133128.70	45133128.75	45133128.87	0.0089	0.0084 *
Venus	118858-03-24 09:05 G	45133135.73	45133135.88	45133136.05	0.0089	0.0061
Venus	118858-11-04 22:17 G	45133361.27	45133361.43	45133361.63	0.0089	0.0052
Earth	118859-03-19 18:55 G	45133496.11	45133496.29	45133496.49	0.0089	0.0060
Moon	118859-03-19 19:10 G	45133496.12	45133496.30	45133496.49	0.0089	0.0064 *
Venus	118859-06-18 11:58 G	45133586.82	45133587.00	45133587.21	0.0089	0.0042
Venus	118860-01-30 01:39 G	45133812.37	45133812.57	45133812.79	0.0089	0.0032
Mercury	118860-01-31 07:53 G	45133813.80	45133813.83	45133813.90	0.0089	0.0085
Earth	118860-03-21 07:10 G	45133863.58	45133863.80	45133864.05	0.0089	0.0037
Moon	118860-03-21 09:05 G	45133863.66	45133863.88	45133864.12	0.0089	0.0032 *
Mercury	118860-04-28 11:00 G	45133901.88	45133901.96	45133902.06	0.0089	0.0076
Mercury	118860-07-25 13:39 G	45133989.97	45133990.07	45133990.20	0.0089	0.0068
Venus	118860-09-11 15:05 G	45134037.93	45134038.13	45134038.36	0.0089	0.0023
Mercury	118860-10-21 16:46 G	45134078.07	45134078.20	45134078.33	0.0089	0.0059
Mercury	118861-01-17 19:24 G	45134166.18	45134166.31	45134166.46	0.0089	0.0051
Moon	118861-03-23 16:46 G	45134230.95	45134231.20	45134231.47	0.0089	0.0018
Earth	118861-03-23 19:39 G	45134231.07	45134231.32	45134231.59	0.0089	0.0013 *
Mercury	118861-04-15 22:17 G	45134254.28	45134254.43	45134254.59	0.0089	0.0042
Venus	118861-04-25 04:46 G	45134263.48	45134263.70	45134263.92	0.0089	0.0013
Mercury	118861-07-13 01:10 G	45134342.39	45134342.55	45134342.72	0.0089	0.0034
Mercury	118861-10-09 04:03 G	45134430.51	45134430.67	45134430.84	0.0089	0.0025
Venus	118861-12-06 18:12 G	45134489.04	45134489.26	45134489.49	0.0089	0.0004
Mercury	118862-01-05 06:55 G	45134518.62	45134518.79	45134518.97	0.0089	0.0017
Earth	118862-03-26 08:07 G	45134598.58	45134598.84	45134599.10	0.0089	0.0010
Moon	118862-03-26 11:15 G	45134598.73	45134598.97	45134599.23	0.0089	0.0015 *
Mercury	118862-04-03 09:48 G	45134606.74	45134606.91	45134607.09	0.0089	0.0008

Mercury	118862-06-30 12:55 G	45134694.86	45134695.04	45134695.22	0.0089	0.0002
Venus	118862-07-20 07:39 G	45134714.61	45134714.82	45134715.05	0.0089	0.0007
Mercury	118862-09-26 15:48 G	45134782.98	45134783.16	45134783.34	0.0089	0.0010
Mercury	118862-12-23 18:41 G	45134871.11	45134871.28	45134871.46	0.0089	0.0019
Venus	118863-03-02 21:19 G	45134940.17	45134940.39	45134940.61	0.0089	0.0016
Mercury	118863-03-21 21:34 G	45134959.24	45134959.40	45134959.57	0.0089	0.0028
Moon	118863-03-28 16:31 G	45134965.96	45134966.19	45134966.44	0.0089	0.0029
Earth	118863-03-28 20:07 G	45134966.12	45134966.34	45134966.59	0.0089	0.0035 *
Mercury	118863-06-18 00:41 G	45135047.37	45135047.53	45135047.69	0.0089	0.0037
Mercury	118863-09-14 03:34 G	45135135.50	45135135.65	45135135.81	0.0089	0.0045
Venus	118863-10-14 10:31 G	45135165.74	45135165.94	45135166.16	0.0089	0.0026
Mercury	118863-12-11 06:27 G	45135223.64	45135223.77	45135223.92	0.0089	0.0055
Mercury	118864-03-08 09:34 G	45135311.78	45135311.90	45135312.03	0.0089	0.0063
Earth	118864-03-30 08:07 G	45135333.67	45135333.84	45135334.06	0.0089	0.0058
Moon	118864-03-30 11:15 G	45135333.80	45135333.97	45135334.18	0.0089	0.0063 *
Venus	118864-05-26 23:43 G	45135391.31	45135391.49	45135391.71	0.0089	0.0036
Mercury	118864-06-04 12:27 G	45135399.93	45135400.02	45135400.13	0.0089	0.0073
Mercury	118864-08-31 15:34 G	45135488.09	45135488.15	45135488.23	0.0089	0.0082
Venus	118865-01-07 13:39 G	45135616.88	45135617.07	45135617.26	0.0089	0.0046
Moon	118865-04-01 17:43 G	45135701.15	45135701.24	45135701.40	0.0089	0.0077
Earth	118865-04-01 20:22 G	45135701.27	45135701.35	45135701.48	0.0089	0.0082 *
Venus	118865-08-21 02:51 G	45135842.46	45135842.62	45135842.81	0.0089	0.0055
Venus	118866-04-03 16:03 G	45136068.04	45136068.17	45136068.34	0.0089	0.0065
Venus	118866-11-15 05:29 G	45136293.63	45136293.73	45136293.87	0.0089	0.0075
Venus	118867-06-28 18:41 G	45136519.24	45136519.28	45136519.38	0.0089	0.0085
Mars	118890-02-28 02:36 G	45144799.36	45144799.61	45144799.89	0.0090	0.0048
Mars	118892-01-24 04:03 G	45145494.48	45145494.67	45145494.85	0.0090	0.0072
Saturn	118928-06-25 20:51 G	45158796.09	45158796.37	45158796.82	0.0089	0.0076
Jupiter	118930-07-30 17:15 G	45159561.03	45159561.22	45159561.50	0.0089	0.0079
Venus	118937-04-07 06:55 G	45162003.78	45162003.79	45162003.82	0.0089	0.0088

Venus	118937-11-18 19:24 G	45162229.22	45162229.31	45162229.41	0.0088	0.0079
Venus	118938-07-02 07:53 G	45162454.71	45162454.83	45162454.97	0.0088	0.0070
Venus	118939-02-12 20:07 G	45162680.20	45162680.34	45162680.51	0.0088	0.0061
Moon	118939-09-14 03:48 G	45162893.55	45162893.66	45162893.83	0.0088	0.0075
Earth	118939-09-14 07:39 G	45162893.69	45162893.82	45162894.00	0.0088	0.0071 *
Venus	118939-09-26 08:22 G	45162905.69	45162905.85	45162906.05	0.0088	0.0052
Venus	118940-05-08 20:51 G	45163131.20	45163131.37	45163131.58	0.0088	0.0043
Mercury	118940-09-03 12:27 G	45163249.00	45163249.02	45163249.06	0.0088	0.0086
Earth	118940-09-15 18:41 G	45163261.08	45163261.28	45163261.51	0.0088	0.0049
Moon	118940-09-15 22:03 G	45163261.22	45163261.42	45163261.66	0.0088	0.0045 *
Mercury	118940-11-30 14:07 G	45163337.04	45163337.09	45163337.17	0.0088	0.0079
Venus	118940-12-20 09:34 G	45163356.70	45163356.90	45163357.11	0.0088	0.0033
Mercury	118941-02-26 15:48 G	45163425.09	45163425.16	45163425.26	0.0088	0.0072
Mercury	118941-05-25 17:29 G	45163513.15	45163513.23	45163513.34	0.0088	0.0065
Venus	118941-08-02 22:03 G	45163582.22	45163582.42	45163582.64	0.0088	0.0024
Mercury	118941-08-21 19:10 G	45163601.20	45163601.30	45163601.42	0.0088	0.0058
Moon	118941-09-18 02:36 G	45163628.39	45163628.61	45163628.87	0.0088	0.0029
Earth	118941-09-18 05:43 G	45163628.51	45163628.74	45163629.00	0.0088	0.0026 *
Mercury	118941-11-17 20:51 G	45163689.26	45163689.37	45163689.50	0.0088	0.0051
Mercury	118942-02-13 22:31 G	45163777.33	45163777.44	45163777.58	0.0088	0.0044
Venus	118942-03-16 10:31 G	45163807.74	45163807.94	45163808.17	0.0088	0.0015
Mercury	118942-05-13 00:12 G	45163865.39	45163865.51	45163865.65	0.0088	0.0037
Mercury	118942-08-09 01:53 G	45163953.45	45163953.58	45163953.72	0.0088	0.0030
Earth	118942-09-20 17:00 G	45163995.95	45163996.21	45163996.47	0.0088	0.0002
Moon	118942-09-20 19:10 G	45163996.03	45163996.30	45163996.56	0.0088	0.0002 *
Venus	118942-10-27 23:15 G	45164033.25	45164033.47	45164033.69	0.0088	0.0005
Mercury	118942-11-05 03:34 G	45164041.52	45164041.65	45164041.80	0.0088	0.0023
Mercury	118943-02-01 05:15 G	45164129.58	45164129.72	45164129.87	0.0088	0.0016
Mercury	118943-04-30 06:55 G	45164217.65	45164217.79	45164217.94	0.0088	0.0009
Venus	118943-06-10 11:43 G	45164258.78	45164258.99	45164259.21	0.0088	0.0005

Mercury	118943-07-27 08:36 G	45164305.72	45164305.86	45164306.00	0.0088	0.0002
Earth	118943-09-23 04:03 G	45164363.42	45164363.67	45164363.92	0.0088	0.0021
Moon	118943-09-23 03:34 G	45164363.42	45164363.65	45164363.91	0.0088	0.0018 *
Mercury	118943-10-23 10:17 G	45164393.79	45164393.93	45164394.07	0.0088	0.0006
Mercury	118944-01-19 11:58 G	45164481.85	45164482.00	45164482.14	0.0088	0.0013
Venus	118944-01-22 00:12 G	45164484.30	45164484.51	45164484.74	0.0088	0.0015
Mercury	118944-04-16 13:24 G	45164569.92	45164570.06	45164570.20	0.0088	0.0019
Mercury	118944-07-13 15:05 G	45164657.99	45164658.13	45164658.27	0.0088	0.0026
Venus	118944-09-03 12:55 G	45164709.83	45164710.04	45164710.25	0.0088	0.0023
Moon	118944-09-24 14:07 G	45164730.87	45164731.09	45164731.33	0.0088	0.0046
Earth	118944-09-24 14:51 G	45164730.91	45164731.12	45164731.36	0.0088	0.0044 *
Mercury	118944-10-09 16:31 G	45164746.06	45164746.19	45164746.33	0.0088	0.0033
Mercury	118945-01-05 18:12 G	45164834.13	45164834.26	45164834.39	0.0088	0.0040
Mercury	118945-04-03 19:39 G	45164922.21	45164922.32	45164922.45	0.0088	0.0047
Venus	118945-04-17 01:24 G	45164935.36	45164935.56	45164935.77	0.0088	0.0033
Mercury	118945-06-30 21:05 G	45165010.28	45165010.38	45165010.50	0.0088	0.0054
Mercury	118945-09-26 22:31 G	45165098.35	45165098.44	45165098.56	0.0088	0.0061
Earth	118945-09-27 01:39 G	45165098.42	45165098.57	45165098.76	0.0088	0.0067 *
Moon	118945-09-27 03:48 G	45165098.51	45165098.66	45165098.86	0.0088	0.0063 *
Venus	118945-11-28 13:39 G	45165160.89	45165161.07	45165161.28	0.0088	0.0042
Mercury	118945-12-24 00:27 G	45165186.43	45165186.52	45165186.61	0.0088	0.0066
Mercury	118946-03-22 01:53 G	45165274.51	45165274.58	45165274.66	0.0088	0.0073
Mercury	118946-06-18 03:05 G	45165362.59	45165362.63	45165362.71	0.0088	0.0081
Venus	118946-07-12 02:22 G	45165386.44	45165386.60	45165386.79	0.0088	0.0052
Mercury	118946-09-14 05:00 G	45165450.69	45165450.71	45165450.74	0.0088	0.0086
Venus	118947-02-22 15:05 G	45165611.98	45165612.13	45165612.30	0.0088	0.0061
Venus	118947-10-06 03:48 G	45165837.53	45165837.66	45165837.79	0.0088	0.0070
Venus	118948-05-18 15:48 G	45166063.09	45166063.16	45166063.28	0.0088	0.0079
Venus	118948-12-30 04:46 G	45166288.70	45166288.70	45166288.72	0.0088	0.0088
Mars	118971-11-05 06:55 G	45174633.62	45174633.79	45174634.01	0.0088	0.0068



Mars 118973-09-29 17:15 G 45175327.97 45175328.22 45175328.52 0.0088 0.0043

# 120TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 120th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	119020-02-11 15:19 G		45192262.83	45192263.14	45192263.55	0.0089	0.0069	
Venus	119021-04-02 13:53 G		45192679.03	45192679.08	45192679.19	0.0089	0.0083	
Venus	119021-11-14 03:48 G		45192904.55	45192904.66	45192904.80	0.0089	0.0073	
Venus	119022-06-27 17:43 G		45193130.09	45193130.24	45193130.40	0.0089	0.0063	
Venus	119023-02-08 06:55 G		45193355.64	45193355.79	45193355.99	0.0089	0.0054	
Earth	119023-03-21 01:10 G		45193396.42	45193396.55	45193396.73	0.0089	0.0071	
Moon	119023-03-21 01:10 G		45193396.43	45193396.55	45193396.73	0.0089	0.0074	*
Venus	119023-09-21 20:51 G		45193581.19	45193581.37	45193581.57	0.0089	0.0044	
Earth	119024-03-22 14:07 G		45193763.88	45193764.09	45193764.31	0.0089	0.0047	
Moon	119024-03-22 14:51 G		45193763.91	45193764.12	45193764.34	0.0089	0.0044	*
Venus	119024-05-04 10:31 G		45193806.74	45193806.94	45193807.15	0.0089	0.0034	
Mercury	119024-10-29 06:12 G		45193984.72	45193984.76	45193984.85	0.0089	0.0082	
Venus	119024-12-16 00:12 G		45194032.29	45194032.51	45194032.72	0.0089	0.0024	
Mercury	119025-01-25 09:19 G		45194072.80	45194072.89	45194073.00	0.0089	0.0073	
Moon	119025-03-24 23:58 G		45194131.26	45194131.50	45194131.76	0.0089	0.0027	
Earth	119025-03-25 02:07 G		45194131.36	45194131.59	45194131.86	0.0089	0.0024	*
Mercury	119025-04-23 11:58 G		45194160.90	45194161.00	45194161.13	0.0089	0.0065	

Mercury	119025-07-20 15:05 G	45194249.00	45194249.13	45194249.27	0.0089	0.0056
Venus	119025-07-29 13:24 G	45194257.85	45194258.06	45194258.29	0.0089	0.0015
Mercury	119025-10-16 17:43 G	45194337.10	45194337.24	45194337.40	0.0089	0.0048
Mercury	119026-01-12 20:36 G	45194425.21	45194425.36	45194425.52	0.0089	0.0039
Venus	119026-03-12 03:05 G	45194483.41	45194483.63	45194483.85	0.0089	0.0005
Earth	119026-03-27 14:51 G	45194498.86	45194499.12	45194499.38	0.0089	0.0001
Moon	119026-03-27 17:58 G	45194499.00	45194499.25	45194499.51	0.0089	0.0003 *
Mercury	119026-04-10 23:15 G	45194513.32	45194513.47	45194513.65	0.0089	0.0032
Mercury	119026-07-08 02:22 G	45194601.43	45194601.60	45194601.77	0.0089	0.0022
Mercury	119026-10-04 05:15 G	45194689.55	45194689.72	45194689.90	0.0089	0.0013
Venus	119026-10-23 16:31 G	45194708.97	45194709.19	45194709.41	0.0089	0.0005
Mercury	119026-12-31 08:07 G	45194777.67	45194777.84	45194778.02	0.0089	0.0005
Mercury	119027-03-29 11:00 G	45194865.79	45194865.96	45194866.14	0.0089	0.0005
Moon	119027-03-29 23:29 G	45194866.24	45194866.48	45194866.74	0.0089	0.0020
Earth	119027-03-30 03:05 G	45194866.38	45194866.63	45194866.88	0.0089	0.0023 *
Venus	119027-06-06 05:58 G	45194934.53	45194934.75	45194934.97	0.0089	0.0014
Mercury	119027-06-25 13:53 G	45194953.91	45194954.08	45194954.26	0.0089	0.0013
Mercury	119027-09-21 16:46 G	45195042.04	45195042.20	45195042.38	0.0089	0.0022
Mercury	119027-12-18 19:53 G	45195130.16	45195130.33	45195130.50	0.0089	0.0030
Venus	119028-01-17 19:24 G	45195160.10	45195160.31	45195160.53	0.0089	0.0024
Mercury	119028-03-15 22:46 G	45195218.29	45195218.45	45195218.61	0.0089	0.0039
Earth	119028-03-31 14:36 G	45195233.92	45195234.11	45195234.35	0.0089	0.0048
Moon	119028-03-31 18:41 G	45195234.07	45195234.28	45195234.50	0.0089	0.0050 *
Mercury	119028-06-12 01:39 G	45195306.43	45195306.57	45195306.73	0.0089	0.0048
Venus	119028-08-30 08:36 G	45195385.67	45195385.86	45195386.08	0.0089	0.0034
Mercury	119028-09-08 04:31 G	45195394.57	45195394.69	45195394.84	0.0089	0.0057
Mercury	119028-12-05 07:24 G	45195482.71	45195482.81	45195482.94	0.0089	0.0067
Mercury	119029-03-03 10:31 G	45195570.86	45195570.94	45195571.05	0.0089	0.0075
Moon	119029-04-03 00:41 G	45195601.39	45195601.53	45195601.71	0.0089	0.0068
Earth	119029-04-03 03:19 G	45195601.49	45195601.64	45195601.81	0.0089	0.0070 *

Venus	119029-04-12 22:17 G	45195611.24	45195611.43	45195611.63	0.0089	0.0043
Mercury	119029-05-30 13:24 G	45195659.02	45195659.06	45195659.13	0.0089	0.0084
Venus	119029-11-24 11:29 G	45195836.82	45195836.98	45195837.17	0.0089	0.0053
Venus	119030-07-08 00:41 G	45196062.40	45196062.53	45196062.71	0.0089	0.0063
Venus	119031-02-18 14:36 G	45196287.99	45196288.11	45196288.24	0.0089	0.0072
Venus	119031-10-02 03:34 G	45196513.59	45196513.65	45196513.76	0.0089	0.0083
Mars	119055-09-09 09:34 G	45205256.60	45205256.90	45205257.22	0.0090	0.0022
Jupiter	119096-09-26 02:07 G	45220249.24	45220249.59	45220250.03	0.0089	0.0058
Venus	119102-02-22 04:46 G	45222223.63	45222223.70	45222223.80	0.0089	0.0081
Venus	119102-10-05 17:00 G	45222449.10	45222449.21	45222449.35	0.0088	0.0072
Venus	119103-05-19 05:29 G	45222674.59	45222674.73	45222674.90	0.0088	0.0063
Moon	119103-09-15 12:12 G	45222793.97	45222794.01	45222794.10	0.0088	0.0086
Earth	119103-09-15 14:36 G	45222794.03	45222794.11	45222794.22	0.0088	0.0082 *
Venus	119103-12-30 17:43 G	45222900.09	45222900.24	45222900.43	0.0088	0.0054
Venus	119104-08-12 06:41 G	45223125.59	45223125.78	45223125.97	0.0088	0.0044
Earth	119104-09-17 01:10 G	45223161.38	45223161.55	45223161.76	0.0088	0.0059
Moon	119104-09-17 04:31 G	45223161.51	45223161.69	45223161.90	0.0088	0.0055 *
Venus	119105-03-25 18:55 G	45223351.10	45223351.29	45223351.50	0.0088	0.0035
Mercury	119105-06-02 11:29 G	45223419.94	45223419.98	45223420.03	0.0088	0.0084
Mercury	119105-08-29 13:10 G	45223507.99	45223508.05	45223508.13	0.0088	0.0077
Moon	119105-09-19 08:22 G	45223528.65	45223528.85	45223529.10	0.0088	0.0042
Earth	119105-09-19 12:12 G	45223528.79	45223529.01	45223529.26	0.0088	0.0037 *
Venus	119105-11-06 07:24 G	45223576.61	45223576.81	45223577.02	0.0088	0.0025
Mercury	119105-11-25 14:51 G	45223596.04	45223596.12	45223596.22	0.0088	0.0070
Mercury	119106-02-21 16:31 G	45223684.10	45223684.19	45223684.30	0.0088	0.0062
Mercury	119106-05-20 18:12 G	45223772.16	45223772.26	45223772.38	0.0088	0.0055
Venus	119106-06-19 19:53 G	45223802.12	45223802.33	45223802.55	0.0088	0.0016
Mercury	119106-08-16 19:53 G	45223860.22	45223860.33	45223860.46	0.0088	0.0048
Earth	119106-09-21 23:15 G	45223896.22	45223896.47	45223896.73	0.0088	0.0013
Moon	119106-09-22 02:36 G	45223896.36	45223896.61	45223896.87	0.0088	0.0009 *

Mercury	119106-11-12 21:34 G	45223948.28	45223948.40	45223948.54	0.0088	0.0041
Venus	119107-01-31 08:36 G	45224027.64	45224027.86	45224028.08	0.0088	0.0007
Mercury	119107-02-08 23:15 G	45224036.35	45224036.47	45224036.61	0.0088	0.0034
Mercury	119107-05-08 00:55 G	45224124.41	45224124.54	45224124.68	0.0088	0.0027
Mercury	119107-08-04 02:36 G	45224212.48	45224212.61	45224212.76	0.0088	0.0020
Venus	119107-09-13 21:05 G	45224253.16	45224253.38	45224253.60	0.0088	0.0003
Moon	119107-09-24 07:39 G	45224263.57	45224263.82	45224264.07	0.0088	0.0005
Earth	119107-09-24 10:17 G	45224263.68	45224263.93	45224264.20	0.0088	0.0010 *
Mercury	119107-10-31 04:17 G	45224300.54	45224300.68	45224300.83	0.0088	0.0013
Mercury	119108-01-27 05:58 G	45224388.61	45224388.75	45224388.90	0.0088	0.0006
Mercury	119108-04-24 07:39 G	45224476.68	45224476.82	45224476.96	0.0088	0.0001
Venus	119108-04-26 09:19 G	45224478.68	45224478.89	45224479.12	0.0088	0.0013
Mercury	119108-07-21 09:19 G	45224564.75	45224564.89	45224565.03	0.0088	0.0008
Earth	119108-09-25 21:34 G	45224631.16	45224631.40	45224631.64	0.0088	0.0033
Moon	119108-09-25 22:31 G	45224631.21	45224631.44	45224631.70	0.0088	0.0037 *
Mercury	119108-10-17 11:00 G	45224652.81	45224652.96	45224653.10	0.0088	0.0015
Venus	119108-12-07 22:03 G	45224704.21	45224704.42	45224704.63	0.0088	0.0021
Mercury	119109-01-13 12:27 G	45224740.88	45224741.02	45224741.16	0.0088	0.0021
Mercury	119109-04-11 13:53 G	45224828.95	45224829.08	45224829.22	0.0088	0.0029
Mercury	119109-07-08 15:34 G	45224917.02	45224917.15	45224917.28	0.0088	0.0035
Venus	119109-07-21 10:31 G	45224929.75	45224929.94	45224930.16	0.0088	0.0031
Earth	119109-09-28 08:22 G	45224998.66	45224998.85	45224999.06	0.0088	0.0056
Moon	119109-09-28 08:22 G	45224998.66	45224998.85	45224999.06	0.0088	0.0052 *
Mercury	119109-10-04 17:15 G	45225005.10	45225005.22	45225005.35	0.0088	0.0042
Mercury	119109-12-31 18:41 G	45225093.17	45225093.28	45225093.40	0.0088	0.0049
Venus	119110-03-03 23:00 G	45225155.28	45225155.46	45225155.67	0.0088	0.0041
Mercury	119110-03-29 20:07 G	45225181.24	45225181.34	45225181.46	0.0088	0.0056
Mercury	119110-06-25 21:48 G	45225269.32	45225269.41	45225269.52	0.0088	0.0062
Mercury	119110-09-21 23:29 G	45225357.40	45225357.48	45225357.57	0.0088	0.0069
Moon	119110-09-30 18:27 G	45225366.19	45225366.27	45225366.37	0.0088	0.0083

Earth	119110-09-30 19:10 G	45225366.21	45225366.30	45225366.44	0.0088	0.0079 *
Venus	119110-10-15 11:43 G	45225380.82	45225380.99	45225381.18	0.0088	0.0049
Mercury	119110-12-19 00:55 G	45225445.48	45225445.54	45225445.62	0.0088	0.0075
Mercury	119111-03-17 02:22 G	45225533.56	45225533.60	45225533.66	0.0088	0.0082
Venus	119111-05-29 00:27 G	45225606.36	45225606.52	45225606.69	0.0088	0.0059
Venus	119112-01-09 12:41 G	45225831.91	45225832.03	45225832.19	0.0088	0.0068
Venus	119112-08-22 01:24 G	45226057.47	45226057.56	45226057.68	0.0088	0.0077
Venus	119113-04-04 14:07 G	45226283.06	45226283.09	45226283.14	0.0088	0.0086
Mars	119137-05-16 10:03 G	45235090.61	45235090.92	45235091.23	0.0088	0.0004
Venus	119185-07-05 23:15 G	45252673.42	45252673.47	45252673.56	0.0089	0.0084
Venus	119186-02-16 13:24 G	45252898.94	45252899.06	45252899.18	0.0089	0.0074
Venus	119186-09-30 02:36 G	45253124.47	45253124.61	45253124.78	0.0089	0.0065
Earth	119187-03-21 08:51 G	45253296.78	45253296.87	45253296.99	0.0089	0.0081
Moon	119187-03-21 12:12 G	45253296.96	45253297.01	45253297.11	0.0089	0.0085 *
Venus	119187-05-13 16:17 G	45253350.02	45253350.18	45253350.37	0.0089	0.0055
Venus	119187-12-25 05:58 G	45253575.57	45253575.75	45253575.96	0.0089	0.0046
Moon	119188-03-22 19:10 G	45253664.11	45253664.30	45253664.50	0.0089	0.0055
Earth	119188-03-22 21:19 G	45253664.21	45253664.39	45253664.60	0.0089	0.0058 *
Venus	119188-08-06 19:39 G	45253801.13	45253801.32	45253801.53	0.0089	0.0036
Venus	119189-03-20 09:19 G	45254026.68	45254026.89	45254027.11	0.0089	0.0026
Earth	119189-03-25 10:03 G	45254031.69	45254031.92	45254032.16	0.0089	0.0034
Moon	119189-03-25 11:43 G	45254031.75	45254031.99	45254032.24	0.0089	0.0037 *
Mercury	119189-04-30 02:22 G	45254067.57	45254067.60	45254067.65	0.0089	0.0086
Mercury	119189-07-27 05:00 G	45254155.64	45254155.71	45254155.81	0.0089	0.0078
Mercury	119189-10-23 08:07 G	45254243.73	45254243.84	45254243.95	0.0089	0.0069
Venus	119189-10-31 23:00 G	45254252.24	45254252.46	45254252.68	0.0089	0.0016
Mercury	119190-01-19 10:46 G	45254331.83	45254331.95	45254332.08	0.0089	0.0061
Moon	119190-03-27 22:03 G	45254399.18	45254399.42	45254399.68	0.0089	0.0008
Earth	119190-03-27 22:17 G	45254399.19	45254399.43	45254399.70	0.0089	0.0011 *
Mercury	119190-04-17 13:24 G	45254419.93	45254420.06	45254420.21	0.0089	0.0053

Venus	119190-06-14 12:27 G	45254477.80	45254478.02	45254478.24	0.0089	0.0007
Mercury	119190-07-14 16:17 G	45254508.04	45254508.18	45254508.34	0.0089	0.0044
Mercury	119190-10-10 19:24 G	45254596.15	45254596.31	45254596.47	0.0089	0.0036
Mercury	119191-01-06 22:03 G	45254684.26	45254684.42	45254684.59	0.0089	0.0027
Venus	119191-01-26 02:07 G	45254703.37	45254703.59	45254703.81	0.0089	0.0003
Moon	119191-03-30 09:05 G	45254766.62	45254766.88	45254767.15	0.0089	0.0011
Earth	119191-03-30 10:31 G	45254766.69	45254766.94	45254767.21	0.0089	0.0013 *
Mercury	119191-04-05 00:55 G	45254772.37	45254772.54	45254772.72	0.0089	0.0018
Mercury	119191-07-02 03:48 G	45254860.49	45254860.66	45254860.84	0.0089	0.0010
Venus	119191-09-08 15:19 G	45254928.93	45254929.14	45254929.37	0.0089	0.0013
Mercury	119191-09-28 06:41 G	45254948.61	45254948.78	45254948.96	0.0089	0.0002
Mercury	119191-12-25 09:34 G	45255036.73	45255036.90	45255037.08	0.0089	0.0008
Mercury	119192-03-22 12:27 G	45255124.85	45255125.02	45255125.20	0.0089	0.0017
Earth	119192-03-31 22:46 G	45255134.22	45255134.45	45255134.69	0.0089	0.0036
Moon	119192-04-01 00:55 G	45255134.33	45255134.54	45255134.78	0.0089	0.0039 *
Venus	119192-04-21 05:00 G	45255154.49	45255154.71	45255154.92	0.0089	0.0023
Mercury	119192-06-18 15:19 G	45255212.98	45255213.14	45255213.32	0.0089	0.0025
Mercury	119192-09-14 18:12 G	45255301.10	45255301.26	45255301.43	0.0089	0.0034
Venus	119192-12-02 18:12 G	45255380.06	45255380.26	45255380.47	0.0089	0.0032
Mercury	119192-12-11 21:05 G	45255389.24	45255389.38	45255389.55	0.0089	0.0043
Mercury	119193-03-09 23:58 G	45255477.37	45255477.50	45255477.66	0.0089	0.0052
Moon	119193-04-03 07:24 G	45255501.63	45255501.81	45255502.04	0.0089	0.0057
Earth	119193-04-03 10:46 G	45255501.78	45255501.95	45255502.16	0.0089	0.0060 *
Mercury	119193-06-06 02:51 G	45255565.51	45255565.62	45255565.77	0.0089	0.0061
Venus	119193-07-16 07:24 G	45255605.63	45255605.81	45255606.02	0.0089	0.0042
Mercury	119193-09-02 06:12 G	45255653.65	45255653.76	45255653.87	0.0089	0.0070
Mercury	119193-11-29 09:05 G	45255741.80	45255741.88	45255741.97	0.0089	0.0079
Mercury	119194-02-25 12:12 G	45255829.98	45255830.01	45255830.04	0.0089	0.0088
Venus	119194-02-26 21:05 G	45255831.21	45255831.38	45255831.57	0.0089	0.0052
Earth	119194-04-05 23:00 G	45255869.39	45255869.46	45255869.56	0.0089	0.0083

Moon	119194-04-06 02:22 G	45255869.56	45255869.60	45255869.69	0.0089	0.0086	*
Venus	119194-10-10 10:17 G	45256056.79	45256056.93	45256057.10	0.0089	0.0061	
Venus	119195-05-23 23:29 G	45256282.37	45256282.48	45256282.64	0.0089	0.0071	
Venus	119196-01-04 13:10 G	45256507.97	45256508.05	45256508.16	0.0089	0.0080	
Mars	119219-04-24 14:22 G	45265018.80	45265019.10	45265019.40	0.0090	0.0029	
Jupiter	119262-11-23 22:31 G	45280938.00	45280938.44	45280938.94	0.0089	0.0037	
Venus	119266-05-26 14:36 G	45282218.05	45282218.11	45282218.21	0.0089	0.0083	
Venus	119267-01-07 02:51 G	45282443.53	45282443.62	45282443.77	0.0089	0.0074	
Venus	119267-08-20 15:48 G	45282669.01	45282669.16	45282669.31	0.0088	0.0064	
Venus	119268-04-02 04:03 G	45282894.51	45282894.67	45282894.85	0.0088	0.0055	
Moon	119268-09-16 08:36 G	45283061.72	45283061.86	45283062.05	0.0088	0.0066	
Earth	119268-09-16 08:51 G	45283061.73	45283061.87	45283062.05	0.0088	0.0070	*
Venus	119268-11-13 16:17 G	45283120.01	45283120.18	45283120.38	0.0088	0.0046	
Venus	119269-06-27 04:46 G	45283345.52	45283345.70	45283345.91	0.0088	0.0037	
Moon	119269-09-18 18:41 G	45283429.07	45283429.28	45283429.51	0.0088	0.0051	
Earth	119269-09-18 19:39 G	45283429.12	45283429.32	45283429.55	0.0088	0.0047	*
Mercury	119269-12-01 09:05 G	45283502.88	45283502.88	45283502.88	0.0088	0.0088	
Venus	119270-02-07 17:15 G	45283571.02	45283571.22	45283571.44	0.0088	0.0027	
Mercury	119270-02-27 10:31 G	45283590.90	45283590.94	45283591.00	0.0088	0.0081	
Mercury	119270-05-26 12:12 G	45283678.94	45283679.01	45283679.10	0.0088	0.0074	
Mercury	119270-08-22 13:53 G	45283767.00	45283767.08	45283767.18	0.0088	0.0067	
Venus	119270-09-21 05:29 G	45283796.53	45283796.73	45283796.96	0.0088	0.0019	
Earth	119270-09-21 06:41 G	45283796.54	45283796.78	45283797.03	0.0088	0.0024	*
Moon	119270-09-21 09:05 G	45283796.65	45283796.88	45283797.14	0.0088	0.0020	*
Mercury	119270-11-18 15:34 G	45283855.06	45283855.15	45283855.27	0.0088	0.0060	
Mercury	119271-02-14 17:15 G	45283943.12	45283943.22	45283943.35	0.0088	0.0053	
Venus	119271-05-04 18:12 G	45284022.04	45284022.26	45284022.48	0.0088	0.0008	
Mercury	119271-05-13 19:10 G	45284031.18	45284031.30	45284031.43	0.0088	0.0046	
Mercury	119271-08-09 20:51 G	45284119.24	45284119.37	45284119.50	0.0088	0.0039	
Moon	119271-09-23 14:22 G	45284163.85	45284164.10	45284164.37	0.0088	0.0006	

Earth	119271-09-23 17:43 G	45284163.98	45284164.24	45284164.50	0.0088	0.0001	*
Mercury	119271-11-05 22:31 G	45284207.31	45284207.44	45284207.58	0.0088	0.0032	
Venus	119271-12-16 06:41 G	45284247.56	45284247.78	45284248.00	0.0088	0.0001	
Mercury	119272-02-01 23:58 G	45284295.37	45284295.50	45284295.65	0.0088	0.0026	
Mercury	119272-04-30 01:39 G	45284383.44	45284383.57	45284383.72	0.0088	0.0019	
Mercury	119272-07-27 03:19 G	45284471.50	45284471.64	45284471.79	0.0088	0.0012	
Venus	119272-07-28 19:10 G	45284473.09	45284473.30	45284473.52	0.0088	0.0010	
Earth	119272-09-25 04:03 G	45284531.44	45284531.67	45284531.94	0.0088	0.0023	
Moon	119272-09-25 08:07 G	45284531.59	45284531.84	45284532.08	0.0088	0.0027	*
Mercury	119272-10-23 05:00 G	45284559.57	45284559.71	45284559.86	0.0088	0.0005	
Mercury	119273-01-19 06:41 G	45284647.64	45284647.78	45284647.93	0.0088	0.0004	
Venus	119273-03-11 07:39 G	45284698.61	45284698.82	45284699.04	0.0088	0.0020	
Mercury	119273-04-17 08:22 G	45284735.71	45284735.85	45284735.99	0.0088	0.0010	
Mercury	119273-07-14 10:03 G	45284823.78	45284823.92	45284824.06	0.0088	0.0017	
Moon	119273-09-27 11:58 G	45284898.79	45284899.00	45284899.24	0.0088	0.0040	
Earth	119273-09-27 15:05 G	45284898.93	45284899.13	45284899.37	0.0088	0.0045	*
Mercury	119273-10-10 11:29 G	45284911.85	45284911.98	45284912.12	0.0088	0.0024	
Venus	119273-10-22 19:53 G	45284924.14	45284924.33	45284924.55	0.0088	0.0029	
Mercury	119274-01-06 13:10 G	45284999.92	45285000.05	45285000.18	0.0088	0.0030	
Mercury	119274-04-04 14:36 G	45285087.99	45285088.11	45285088.25	0.0088	0.0037	
Venus	119274-06-05 08:36 G	45285149.67	45285149.86	45285150.06	0.0088	0.0038	
Mercury	119274-07-01 16:03 G	45285176.06	45285176.17	45285176.31	0.0088	0.0045	
Mercury	119274-09-27 17:58 G	45285264.13	45285264.25	45285264.36	0.0088	0.0051	
Earth	119274-09-30 01:53 G	45285266.44	45285266.58	45285266.77	0.0088	0.0068	
Moon	119274-09-30 04:17 G	45285266.56	45285266.68	45285266.86	0.0088	0.0073	*
Mercury	119274-12-24 19:24 G	45285352.21	45285352.31	45285352.42	0.0088	0.0057	
Venus	119275-01-16 21:05 G	45285375.21	45285375.38	45285375.58	0.0088	0.0048	
Mercury	119275-03-22 20:51 G	45285440.28	45285440.37	45285440.48	0.0088	0.0064	
Mercury	119275-06-18 22:17 G	45285528.36	45285528.43	45285528.53	0.0088	0.0071	
Venus	119275-08-30 09:34 G	45285600.75	45285600.90	45285601.09	0.0088	0.0057	



Mercury	119275-09-14 23:58 G	45285616.45	45285616.50	45285616.58	0.0088	0.0078
Moon	119275-10-02 11:43 G	45285633.96	45285633.99	45285634.06	0.0088	0.0087
Mercury	119275-12-12 01:24 G	45285704.54	45285704.56	45285704.61	0.0088	0.0084
Venus	119276-04-11 22:03 G	45285826.30	45285826.42	45285826.59	0.0088	0.0067
Venus	119276-11-23 10:46 G	45286051.86	45286051.95	45286052.08	0.0088	0.0075
Venus	119277-07-06 23:43 G	45286277.44	45286277.49	45286277.56	0.0088	0.0084
Mars	119300-12-30 05:00 G	45294853.49	45294853.71	45294854.00	0.0088	0.0049
Mars	119302-11-24 13:53 G	45295547.89	45295548.08	45295548.33	0.0088	0.0062
Venus	119349-10-08 08:07 G	45312667.81	45312667.84	45312667.92	0.0089	0.0086
Venus	119350-05-21 22:03 G	45312893.32	45312893.42	45312893.55	0.0089	0.0076
Venus	119351-01-02 11:29 G	45313118.86	45313118.98	45313119.15	0.0089	0.0067
Venus	119351-08-16 01:24 G	45313344.40	45313344.56	45313344.75	0.0089	0.0057
Moon	119352-03-23 01:10 G	45313564.39	45313564.55	45313564.75	0.0089	0.0065
Earth	119352-03-23 04:46 G	45313564.55	45313564.70	45313564.88	0.0089	0.0068 *
Venus	119352-03-28 15:19 G	45313569.95	45313570.14	45313570.33	0.0089	0.0047
Venus	119352-11-09 04:31 G	45313795.51	45313795.69	45313795.91	0.0089	0.0038
Earth	119353-03-25 17:00 G	45313932.01	45313932.21	45313932.46	0.0089	0.0045
Moon	119353-03-25 20:36 G	45313932.17	45313932.36	45313932.60	0.0089	0.0048 *
Venus	119353-06-22 18:12 G	45314021.06	45314021.26	45314021.49	0.0089	0.0028
Mercury	119354-01-26 00:41 G	45314238.49	45314238.53	45314238.61	0.0089	0.0083
Venus	119354-02-03 08:07 G	45314246.63	45314246.84	45314247.06	0.0089	0.0018
Moon	119354-03-28 02:51 G	45314299.37	45314299.62	45314299.87	0.0089	0.0018
Earth	119354-03-28 05:58 G	45314299.50	45314299.75	45314300.01	0.0089	0.0021 *
Mercury	119354-04-24 03:48 G	45314326.57	45314326.66	45314326.76	0.0089	0.0074
Mercury	119354-07-21 06:27 G	45314414.66	45314414.77	45314414.89	0.0089	0.0066
Venus	119354-09-16 21:48 G	45314472.19	45314472.41	45314472.63	0.0089	0.0008
Mercury	119354-10-17 09:05 G	45314502.76	45314502.88	45314503.03	0.0089	0.0058
Mercury	119355-01-13 11:58 G	45314590.87	45314591.00	45314591.16	0.0089	0.0049
Earth	119355-03-30 18:27 G	45314667.01	45314667.27	45314667.53	0.0089	0.0002
Moon	119355-03-30 21:19 G	45314667.13	45314667.39	45314667.66	0.0089	0.0001 *

Mercury	119355-04-11 15:05 G	45314678.98	45314679.13	45314679.29	0.0089	0.0040
Venus	119355-04-30 11:15 G	45314697.75	45314697.97	45314698.20	0.0089	0.0002
Mercury	119355-07-08 17:43 G	45314767.08	45314767.24	45314767.41	0.0089	0.0032
Mercury	119355-10-04 20:36 G	45314855.20	45314855.36	45314855.54	0.0089	0.0023
Venus	119355-12-12 00:55 G	45314923.32	45314923.54	45314923.76	0.0089	0.0011
Mercury	119355-12-31 23:29 G	45314943.31	45314943.48	45314943.66	0.0089	0.0015
Mercury	119356-03-29 02:22 G	45315031.43	45315031.60	45315031.78	0.0089	0.0006
Moon	119356-04-01 05:15 G	45315034.50	45315034.72	45315034.98	0.0089	0.0029
Earth	119356-04-01 06:41 G	45315034.54	45315034.78	45315035.03	0.0089	0.0026 *
Mercury	119356-06-25 05:15 G	45315119.55	45315119.72	45315119.90	0.0089	0.0003
Venus	119356-07-24 14:22 G	45315148.89	45315149.10	45315149.32	0.0089	0.0021
Mercury	119356-09-21 08:07 G	45315207.67	45315207.84	45315208.02	0.0089	0.0012
Mercury	119356-12-18 11:00 G	45315295.79	45315295.96	45315296.14	0.0089	0.0020
Venus	119357-03-07 03:34 G	45315374.46	45315374.65	45315374.87	0.0089	0.0031
Mercury	119357-03-16 13:53 G	45315383.92	45315384.08	45315384.25	0.0089	0.0029
Earth	119357-04-03 18:27 G	45315402.08	45315402.27	45315402.51	0.0089	0.0051
Moon	119357-04-03 18:55 G	45315402.08	45315402.29	45315402.53	0.0089	0.0047 *
Mercury	119357-06-12 16:46 G	45315472.05	45315472.20	45315472.37	0.0089	0.0038
Mercury	119357-09-08 19:39 G	45315560.18	45315560.32	45315560.48	0.0089	0.0047
Venus	119357-10-18 17:15 G	45315600.03	45315600.22	45315600.42	0.0089	0.0040
Mercury	119357-12-05 22:46 G	45315648.31	45315648.45	45315648.59	0.0089	0.0056
Mercury	119358-03-04 01:39 G	45315736.45	45315736.57	45315736.70	0.0089	0.0064
Earth	119358-04-06 06:41 G	45315769.66	45315769.78	45315769.95	0.0089	0.0074
Moon	119358-04-06 07:53 G	45315769.73	45315769.83	45315769.98	0.0089	0.0077 *
Mercury	119358-05-31 04:31 G	45315824.60	45315824.69	45315824.80	0.0089	0.0073
Venus	119358-06-01 06:27 G	45315825.60	45315825.77	45315825.97	0.0089	0.0050
Mercury	119358-08-27 07:24 G	45315912.76	45315912.81	45315912.89	0.0089	0.0083
Venus	119359-01-12 19:53 G	45316051.19	45316051.33	45316051.51	0.0089	0.0060
Venus	119359-08-26 09:19 G	45316276.77	45316276.89	45316277.05	0.0089	0.0070
Venus	119360-04-07 22:31 G	45316502.36	45316502.44	45316502.56	0.0089	0.0079

Venus	119360-11-19 11:58 G	45316727.99	45316728.00	45316728.05	0.0089	0.0089
Mars	119382-12-07 17:43 G	45324781.13	45324781.24	45324781.42	0.0090	0.0080
Mars	119384-11-01 23:15 G	45325476.22	45325476.47	45325476.78	0.0090	0.0043
Jupiter	119429-01-25 10:17 G	45341630.44	45341630.93	45341631.45	0.0089	0.0017
Venus	119430-08-30 01:10 G	45342212.49	45342212.55	45342212.62	0.0089	0.0084
Venus	119431-04-12 13:24 G	45342437.96	45342438.06	45342438.18	0.0088	0.0075
Venus	119431-11-24 01:39 G	45342663.44	45342663.57	45342663.73	0.0088	0.0066
Venus	119432-07-06 14:07 G	45342888.94	45342889.09	45342889.28	0.0088	0.0057
Moon	119432-09-17 13:39 G	45342961.96	45342962.07	45342962.22	0.0088	0.0075
Earth	119432-09-17 16:46 G	45342962.12	45342962.20	45342962.34	0.0088	0.0080 *
Venus	119433-02-17 02:36 G	45343114.44	45343114.61	45343114.81	0.0088	0.0047
Earth	119433-09-20 03:48 G	45343329.48	45343329.66	45343329.87	0.0088	0.0057
Moon	119433-09-20 06:12 G	45343329.59	45343329.76	45343329.97	0.0088	0.0061 *
Venus	119433-09-30 15:19 G	45343339.94	45343340.14	45343340.34	0.0088	0.0038
Venus	119434-05-14 03:34 G	45343565.45	45343565.65	45343565.86	0.0088	0.0029
Mercury	119434-08-30 08:07 G	45343673.81	45343673.84	45343673.88	0.0088	0.0085
Moon	119434-09-22 13:10 G	45343696.83	45343697.05	45343697.30	0.0088	0.0030
Earth	119434-09-22 15:05 G	45343696.89	45343697.13	45343697.37	0.0088	0.0034 *
Mercury	119434-11-26 09:48 G	45343761.85	45343761.91	45343761.98	0.0088	0.0078
Venus	119434-12-25 15:48 G	45343790.96	45343791.16	45343791.39	0.0088	0.0020
Mercury	119435-02-22 11:29 G	45343849.91	45343849.98	45343850.07	0.0088	0.0071
Mercury	119435-05-21 13:10 G	45343937.96	45343938.05	45343938.16	0.0088	0.0064
Venus	119435-08-08 04:31 G	45344016.48	45344016.69	45344016.91	0.0088	0.0010
Mercury	119435-08-17 14:51 G	45344026.02	45344026.12	45344026.24	0.0088	0.0057
Moon	119435-09-25 01:24 G	45344064.30	45344064.56	45344064.83	0.0088	0.0015
Earth	119435-09-25 01:53 G	45344064.32	45344064.58	45344064.83	0.0088	0.0011 *
Mercury	119435-11-13 16:31 G	45344114.08	45344114.19	45344114.32	0.0088	0.0050
Mercury	119436-02-09 18:12 G	45344202.15	45344202.26	45344202.40	0.0088	0.0044
Venus	119436-03-20 17:00 G	45344241.99	45344242.21	45344242.43	0.0088	0.0001
Mercury	119436-05-07 19:53 G	45344290.21	45344290.33	45344290.47	0.0088	0.0037

Mercury 119436-08-03 21:34 G 45344378.27 45344378.40 45344378.55 0.0088 0.0030

Earth 119436-09-26 12:27 G 45344431.77 45344432.02 45344432.28 0.0088 0.0012

Moon 119436-09-26 13:53 G 45344431.84 45344432.08 45344432.33 0.0088 0.0017 \*

Mercury 119436-10-30 23:15 G 45344466.34 45344466.47 45344466.62 0.0088 0.0023

Venus 119436-11-01 05:29 G 45344467.51 45344467.73 45344467.95 0.0088 0.0009

Mercury 119437-01-27 01:10 G 45344554.41 45344554.55 45344554.69 0.0088 0.0015

Mercury 119437-04-25 02:51 G 45344642.47 45344642.62 45344642.76 0.0088 0.0008

Venus 119437-06-14 17:43 G 45344693.04 45344693.24 45344693.46 0.0088 0.0018

Mercury 119437-07-22 04:17 G 45344730.54 45344730.68 45344730.83 0.0088 0.0004

Moon 119437-09-28 20:51 G 45344799.13 45344799.37 45344799.63 0.0088 0.0030

Earth 119437-09-28 23:15 G 45344799.25 45344799.47 45344799.72 0.0088 0.0035 \*

Mercury 119437-10-18 05:58 G 45344818.61 45344818.75 45344818.90 0.0088 0.0006

Mercury 119438-01-14 07:39 G 45344906.68 45344906.82 45344906.96 0.0088 0.0013

Venus 119438-01-26 06:12 G 45344918.56 45344918.76 45344918.98 0.0088 0.0028

Mercury 119438-04-12 09:19 G 45344994.75 45344994.89 45344995.03 0.0088 0.0020

Mercury 119438-07-09 10:46 G 45345082.82 45345082.95 45345083.09 0.0088 0.0026

Venus 119438-09-08 18:55 G 45345144.09 45345144.29 45345144.49 0.0088 0.0037

Earth 119438-10-01 10:31 G 45345166.74 45345166.94 45345167.13 0.0088 0.0058

Moon 119438-10-01 13:53 G 45345166.91 45345167.08 45345167.26 0.0088 0.0063 \*

Mercury 119438-10-05 12:27 G 45345170.89 45345171.02 45345171.15 0.0088 0.0033

Mercury 119439-01-01 13:53 G 45345258.96 45345259.08 45345259.21 0.0088 0.0040

Mercury 119439-03-30 15:34 G 45345347.03 45345347.15 45345347.27 0.0088 0.0047

Venus 119439-04-22 06:55 G 45345369.62 45345369.79 45345370.00 0.0088 0.0047

Mercury 119439-06-26 17:15 G 45345435.11 45345435.22 45345435.33 0.0088 0.0053

Mercury 119439-09-22 18:41 G 45345523.18 45345523.28 45345523.39 0.0088 0.0060

Moon 119439-10-03 17:29 G 45345534.13 45345534.23 45345534.39 0.0088 0.0076

Earth 119439-10-03 21:19 G 45345534.30 45345534.39 45345534.50 0.0088 0.0081 \*

Venus 119439-12-03 19:39 G 45345595.16 45345595.32 45345595.50 0.0088 0.0055

Mercury 119439-12-19 20:07 G 45345611.26 45345611.34 45345611.44 0.0088 0.0067

Mercury 119440-03-16 21:48 G 45345699.34 45345699.41 45345699.49 0.0088 0.0074

Mercury	119440-06-12 23:15 G	45345787.43	45345787.47	45345787.54	0.0088	0.0080
Venus	119440-07-16 08:36 G	45345820.72	45345820.86	45345821.01	0.0088	0.0064
Mercury	119440-09-09 00:41 G	45345875.53	45345875.53	45345875.57	0.0088	0.0087
Venus	119441-02-26 20:36 G	45346046.27	45346046.36	45346046.51	0.0088	0.0075
Venus	119441-10-10 09:19 G	45346271.84	45346271.89	45346271.98	0.0088	0.0083
Mars	119466-07-10 09:34 G	45355310.61	45355310.90	45355311.22	0.0088	0.0017
Venus	119514-01-11 18:12 G	45372662.23	45372662.26	45372662.31	0.0089	0.0087
Venus	119514-08-25 07:38 G	45372887.73	45372887.82	45372887.95	0.0089	0.0078
Venus	119515-04-07 21:19 G	45373113.26	45373113.39	45373113.55	0.0089	0.0068
Venus	119515-11-19 11:14 G	45373338.81	45373338.97	45373339.14	0.0089	0.0058
Moon	119516-03-24 13:10 G	45373464.91	45373465.05	45373465.19	0.0089	0.0075
Earth	119516-03-24 13:10 G	45373464.93	45373465.05	45373465.17	0.0089	0.0078 *
Venus	119516-07-02 00:26 G	45373564.36	45373564.52	45373564.73	0.0089	0.0049
Venus	119517-02-12 14:22 G	45373789.91	45373790.10	45373790.31	0.0089	0.0039
Earth	119517-03-27 01:10 G	45373832.36	45373832.55	45373832.77	0.0089	0.0055
Moon	119517-03-27 02:22 G	45373832.43	45373832.60	45373832.80	0.0089	0.0058 *
Venus	119517-09-26 04:02 G	45374015.47	45374015.67	45374015.89	0.0089	0.0029
Moon	119518-03-29 11:00 G	45374199.72	45374199.96	45374200.22	0.0089	0.0029
Earth	119518-03-29 14:07 G	45374199.85	45374200.09	45374200.33	0.0089	0.0031 *
Venus	119518-05-09 17:29 G	45374241.03	45374241.23	45374241.46	0.0089	0.0020
Mercury	119518-07-28 20:50 G	45374321.35	45374321.37	45374321.42	0.0089	0.0087
Mercury	119518-10-24 23:29 G	45374409.42	45374409.48	45374409.58	0.0089	0.0079
Venus	119518-12-21 07:24 G	45374466.59	45374466.81	45374467.03	0.0089	0.0010
Mercury	119519-01-21 02:36 G	45374497.51	45374497.61	45374497.72	0.0089	0.0070
Earth	119519-04-01 02:22 G	45374567.35	45374567.60	45374567.87	0.0089	0.0008
Moon	119519-04-01 05:29 G	45374567.48	45374567.73	45374567.99	0.0089	0.0011 *
Mercury	119519-04-19 05:14 G	45374585.61	45374585.72	45374585.85	0.0089	0.0062
Mercury	119519-07-16 07:53 G	45374673.71	45374673.83	45374673.98	0.0089	0.0054
Venus	119519-08-03 21:05 G	45374692.16	45374692.38	45374692.60	0.0089	0.0000
Mercury	119519-10-12 10:46 G	45374761.81	45374761.95	45374762.11	0.0089	0.0045

Mercury	119520-01-08 13:53 G	45374849.92	45374850.08	45374850.24	0.0089	0.0036
Venus	119520-03-16 10:31 G	45374917.72	45374917.94	45374918.17	0.0089	0.0010
Moon	119520-04-02 11:14 G	45374934.72	45374934.97	45374935.23	0.0089	0.0019
Earth	119520-04-02 14:50 G	45374934.88	45374935.12	45374935.39	0.0089	0.0016 *
Mercury	119520-04-05 16:31 G	45374938.03	45374938.19	45374938.36	0.0089	0.0028
Mercury	119520-07-02 19:24 G	45375026.14	45375026.31	45375026.48	0.0089	0.0019
Mercury	119520-09-28 22:17 G	45375114.26	45375114.43	45375114.61	0.0089	0.0011
Venus	119520-10-27 23:58 G	45375143.29	45375143.50	45375143.72	0.0089	0.0020
Mercury	119520-12-26 01:10 G	45375202.38	45375202.55	45375202.73	0.0089	0.0002
Mercury	119521-03-24 04:02 G	45375290.49	45375290.67	45375290.85	0.0089	0.0007
Earth	119521-04-05 03:34 G	45375302.41	45375302.65	45375302.88	0.0089	0.0040
Moon	119521-04-05 06:26 G	45375302.55	45375302.77	45375303.02	0.0089	0.0037 *
Venus	119521-06-10 13:24 G	45375368.86	45375369.06	45375369.28	0.0089	0.0029
Mercury	119521-06-20 06:55 G	45375378.62	45375378.79	45375378.96	0.0089	0.0015
Mercury	119521-09-16 09:48 G	45375466.74	45375466.91	45375467.08	0.0089	0.0024
Mercury	119521-12-13 12:26 G	45375554.87	45375555.02	45375555.20	0.0089	0.0033
Venus	119522-01-22 02:50 G	45375594.44	45375594.62	45375594.84	0.0089	0.0040
Mercury	119522-03-11 15:19 G	45375643.00	45375643.14	45375643.31	0.0089	0.0042
Moon	119522-04-07 12:41 G	45375669.88	45375670.03	45375670.22	0.0089	0.0066
Earth	119522-04-07 15:05 G	45375669.98	45375670.13	45375670.34	0.0089	0.0064 *
Mercury	119522-06-07 18:12 G	45375731.13	45375731.26	45375731.42	0.0089	0.0051
Mercury	119522-09-03 21:34 G	45375819.27	45375819.40	45375819.53	0.0089	0.0060
Venus	119522-09-04 16:46 G	45375820.01	45375820.20	45375820.38	0.0089	0.0049
Mercury	119522-12-01 00:12 G	45375907.41	45375907.51	45375907.63	0.0089	0.0069
Mercury	119523-02-27 03:05 G	45375995.56	45375995.63	45375995.73	0.0089	0.0078
Earth	119523-04-10 03:34 G	45376037.61	45376037.65	45376037.73	0.0089	0.0087
Moon	119523-04-10 05:14 G	45376037.65	45376037.72	45376037.83	0.0089	0.0083 *
Venus	119523-04-18 05:43 G	45376045.59	45376045.74	45376045.92	0.0089	0.0059
Mercury	119523-05-26 06:12 G	45376083.73	45376083.76	45376083.81	0.0089	0.0086
Venus	119523-11-29 18:55 G	45376271.17	45376271.29	45376271.46	0.0089	0.0068

Venus	119524-07-12 08:36 G	45376496.77	45376496.86	45376496.98	0.0089	0.0077
Venus	119525-02-22 21:48 G	45376722.39	45376722.41	45376722.48	0.0089	0.0087
Mars	119548-06-18 06:41 G	45385238.47	45385238.78	45385239.11	0.0090	0.0007
Venus	119594-12-02 11:14 G	45402206.93	45402206.97	45402207.04	0.0089	0.0086
Jupiter	119595-03-27 08:22 G	45402321.34	45402321.85	45402322.38	0.0089	0.0004
Venus	119595-07-15 23:43 G	45402432.40	45402432.49	45402432.62	0.0089	0.0077
Venus	119596-02-26 11:58 G	45402657.89	45402658.00	45402658.17	0.0088	0.0068
Moon	119596-09-17 23:14 G	45402862.41	45402862.47	45402862.56	0.0088	0.0085
Venus	119596-10-09 00:55 G	45402883.38	45402883.54	45402883.70	0.0088	0.0058
Venus	119597-05-22 13:10 G	45403108.88	45403109.05	45403109.24	0.0088	0.0049
Earth	119597-09-20 12:12 G	45403229.86	45403230.01	45403230.20	0.0088	0.0067
Moon	119597-09-20 15:34 G	45403230.02	45403230.15	45403230.32	0.0088	0.0071 *
Venus	119598-01-03 01:24 G	45403334.38	45403334.56	45403334.77	0.0088	0.0040
Venus	119598-08-16 13:53 G	45403559.89	45403560.08	45403560.30	0.0088	0.0031
Moon	119598-09-22 19:38 G	45403597.11	45403597.32	45403597.57	0.0088	0.0040
Earth	119598-09-22 23:14 G	45403597.26	45403597.47	45403597.71	0.0088	0.0044 *
Venus	119599-03-30 02:36 G	45403785.40	45403785.61	45403785.82	0.0088	0.0021
Mercury	119599-05-28 07:24 G	45403844.77	45403844.81	45403844.87	0.0088	0.0083
Mercury	119599-08-24 09:05 G	45403932.82	45403932.88	45403932.96	0.0088	0.0075
Earth	119599-09-25 10:02 G	45403964.68	45403964.92	45403965.18	0.0088	0.0021
Moon	119599-09-25 13:24 G	45403964.83	45403965.06	45403965.33	0.0088	0.0026 *
Venus	119599-11-10 14:50 G	45404010.91	45404011.12	45404011.34	0.0088	0.0012
Mercury	119599-11-20 10:46 G	45404020.87	45404020.95	45404021.05	0.0088	0.0068
Mercury	119600-02-16 12:26 G	45404108.93	45404109.02	45404109.14	0.0088	0.0061
Mercury	119600-05-14 14:07 G	45404196.99	45404197.09	45404197.22	0.0088	0.0055
Venus	119600-06-23 03:34 G	45404236.43	45404236.65	45404236.87	0.0088	0.0002
Mercury	119600-08-10 15:48 G	45404285.05	45404285.16	45404285.30	0.0088	0.0048
Moon	119600-09-26 18:26 G	45404332.03	45404332.27	45404332.53	0.0088	0.0008
Earth	119600-09-26 21:05 G	45404332.12	45404332.38	45404332.64	0.0088	0.0002 *
Mercury	119600-11-06 17:29 G	45404373.11	45404373.23	45404373.37	0.0088	0.0041

Mercury	119601-02-02 19:10 G	45404461.18	45404461.30	45404461.45	0.0088	0.0034
Venus	119601-02-03 15:48 G	45404461.95	45404462.16	45404462.38	0.0088	0.0008
Mercury	119601-05-01 21:05 G	45404549.24	45404549.38	45404549.52	0.0088	0.0026
Mercury	119601-07-28 22:46 G	45404637.31	45404637.45	45404637.59	0.0088	0.0019
Venus	119601-09-17 04:17 G	45404687.47	45404687.68	45404687.90	0.0088	0.0017
Earth	119601-09-29 07:38 G	45404699.58	45404699.82	45404700.08	0.0088	0.0025
Moon	119601-09-29 08:50 G	45404699.63	45404699.87	45404700.14	0.0088	0.0021 *
Mercury	119601-10-25 00:26 G	45404725.38	45404725.52	45404725.66	0.0088	0.0012
Mercury	119602-01-21 02:07 G	45404813.44	45404813.59	45404813.73	0.0088	0.0005
Mercury	119602-04-19 03:48 G	45404901.51	45404901.66	45404901.80	0.0088	0.0003
Venus	119602-04-30 16:31 G	45404912.99	45404913.19	45404913.41	0.0088	0.0026
Mercury	119602-07-16 05:14 G	45404989.58	45404989.72	45404989.87	0.0088	0.0009
Earth	119602-10-01 18:12 G	45405067.07	45405067.26	45405067.50	0.0088	0.0049
Moon	119602-10-01 18:12 G	45405067.08	45405067.26	45405067.47	0.0088	0.0053 *
Mercury	119602-10-12 06:55 G	45405077.65	45405077.79	45405077.93	0.0088	0.0016
Venus	119602-12-12 05:00 G	45405138.52	45405138.71	45405138.92	0.0088	0.0035
Mercury	119603-01-08 08:36 G	45405165.72	45405165.86	45405166.00	0.0088	0.0022
Mercury	119603-04-06 10:02 G	45405253.79	45405253.92	45405254.06	0.0088	0.0029
Mercury	119603-07-03 11:43 G	45405341.86	45405341.99	45405342.12	0.0088	0.0036
Venus	119603-07-25 17:43 G	45405364.06	45405364.24	45405364.43	0.0088	0.0044
Mercury	119603-09-29 13:10 G	45405429.94	45405430.05	45405430.18	0.0088	0.0043
Moon	119603-10-04 03:48 G	45405434.48	45405434.66	45405434.84	0.0088	0.0066
Earth	119603-10-04 05:29 G	45405434.58	45405434.73	45405434.89	0.0088	0.0071 *
Mercury	119603-12-26 14:50 G	45405518.01	45405518.12	45405518.24	0.0088	0.0050
Venus	119604-03-07 05:43 G	45405589.59	45405589.74	45405589.94	0.0088	0.0055
Mercury	119604-03-23 16:31 G	45405606.08	45405606.19	45405606.30	0.0088	0.0056
Mercury	119604-06-19 17:58 G	45405694.16	45405694.25	45405694.36	0.0088	0.0063
Mercury	119604-09-15 19:24 G	45405782.24	45405782.31	45405782.41	0.0088	0.0070
Venus	119604-10-18 18:12 G	45405815.13	45405815.26	45405815.44	0.0088	0.0064
Mercury	119604-12-12 21:05 G	45405870.32	45405870.38	45405870.46	0.0088	0.0077



Mercury	119605-03-10 22:31 G	45405958.41	45405958.44	45405958.50	0.0088	0.0083
Venus	119605-06-01 06:55 G	45406040.68	45406040.79	45406040.93	0.0088	0.0072
Venus	119606-01-12 19:38 G	45406266.25	45406266.32	45406266.41	0.0088	0.0081
Mars	119630-02-23 06:41 G	45415073.50	45415073.78	45415074.09	0.0088	0.0028
Mars	119632-01-18 14:07 G	45415768.02	45415768.09	45415768.22	0.0088	0.0083
Venus	119678-04-15 03:48 G	45432656.66	45432656.66	45432656.69	0.0089	0.0089
Venus	119678-11-26 17:29 G	45432882.14	45432882.23	45432882.34	0.0089	0.0079
Venus	119679-07-10 06:55 G	45433107.67	45433107.79	45433107.95	0.0089	0.0070
Venus	119680-02-20 20:36 G	45433333.22	45433333.36	45433333.55	0.0089	0.0060
Earth	119680-03-23 21:19 G	45433365.37	45433365.39	45433365.42	0.0089	0.0088
Moon	119680-03-24 00:26 G	45433365.46	45433365.52	45433365.61	0.0089	0.0085
Venus	119680-10-03 10:31 G	45433558.76	45433558.94	45433559.13	0.0089	0.0050
Moon	119681-03-26 07:10 G	45433732.65	45433732.80	45433732.97	0.0089	0.0068
Earth	119681-03-26 09:34 G	45433732.74	45433732.90	45433733.10	0.0089	0.0065 *
Venus	119681-05-17 00:12 G	45433784.32	45433784.51	45433784.71	0.0089	0.0040
Venus	119681-12-28 13:38 G	45434009.88	45434010.07	45434010.30	0.0089	0.0031
Earth	119682-03-28 22:31 G	45434100.21	45434100.44	45434100.66	0.0089	0.0041
Moon	119682-03-28 23:58 G	45434100.27	45434100.50	45434100.76	0.0089	0.0038 *
Venus	119682-08-11 03:34 G	45434235.44	45434235.65	45434235.87	0.0089	0.0021
Venus	119683-03-24 17:14 G	45434461.00	45434461.22	45434461.44	0.0089	0.0011
Earth	119683-03-31 10:46 G	45434467.71	45434467.95	45434468.21	0.0089	0.0018
Moon	119683-03-31 10:46 G	45434467.72	45434467.95	45434468.21	0.0089	0.0021 *
Mercury	119683-04-24 19:38 G	45434492.28	45434492.32	45434492.40	0.0089	0.0083
Mercury	119683-07-21 22:17 G	45434580.36	45434580.43	45434580.54	0.0089	0.0075
Mercury	119683-10-18 01:24 G	45434668.45	45434668.56	45434668.68	0.0089	0.0066
Venus	119683-11-05 06:55 G	45434686.56	45434686.79	45434687.01	0.0089	0.0002
Mercury	119684-01-14 04:02 G	45434756.55	45434756.67	45434756.81	0.0089	0.0058
Moon	119684-04-01 22:17 G	45434835.17	45434835.43	45434835.70	0.0089	0.0009
Earth	119684-04-01 23:29 G	45434835.23	45434835.48	45434835.74	0.0089	0.0006 *
Mercury	119684-04-11 06:55 G	45434844.65	45434844.79	45434844.94	0.0089	0.0049

Venus	119684-06-17 20:22 G	45434912.13	45434912.35	45434912.57	0.0089	0.0008
Mercury	119684-07-08 09:34 G	45434932.76	45434932.90	45434933.07	0.0089	0.0041
Mercury	119684-10-04 12:41 G	45435020.87	45435021.03	45435021.19	0.0089	0.0032
Mercury	119684-12-31 15:19 G	45435108.98	45435109.14	45435109.32	0.0089	0.0024
Venus	119685-01-29 10:02 G	45435137.71	45435137.92	45435138.14	0.0089	0.0018
Mercury	119685-03-29 18:12 G	45435197.09	45435197.26	45435197.44	0.0089	0.0015
Earth	119685-04-04 11:58 G	45435202.76	45435203.00	45435203.24	0.0089	0.0029
Moon	119685-04-04 13:53 G	45435202.85	45435203.08	45435203.33	0.0089	0.0026 *
Mercury	119685-06-25 21:05 G	45435285.21	45435285.38	45435285.56	0.0089	0.0007
Venus	119685-09-11 23:29 G	45435363.28	45435363.48	45435363.70	0.0089	0.0028
Mercury	119685-09-21 23:58 G	45435373.33	45435373.50	45435373.68	0.0089	0.0003
Mercury	119685-12-19 02:50 G	45435461.45	45435461.62	45435461.80	0.0089	0.0011
Mercury	119686-03-17 05:43 G	45435549.57	45435549.74	45435549.91	0.0089	0.0020
Moon	119686-04-06 20:50 G	45435570.17	45435570.37	45435570.58	0.0089	0.0055
Earth	119686-04-06 23:58 G	45435570.32	45435570.50	45435570.73	0.0089	0.0054 *
Venus	119686-04-25 12:55 G	45435588.85	45435589.04	45435589.25	0.0089	0.0038
Mercury	119686-06-13 08:36 G	45435637.69	45435637.86	45435638.03	0.0089	0.0029
Mercury	119686-09-09 11:29 G	45435725.82	45435725.98	45435726.14	0.0089	0.0037
Mercury	119686-12-06 14:22 G	45435813.95	45435814.10	45435814.26	0.0089	0.0046
Venus	119686-12-07 02:36 G	45435814.43	45435814.61	45435814.80	0.0089	0.0047
Mercury	119687-03-04 17:00 G	45435902.09	45435902.21	45435902.37	0.0089	0.0056
Earth	119687-04-09 12:41 G	45435937.91	45435938.03	45435938.17	0.0089	0.0077
Moon	119687-04-09 16:02 G	45435938.04	45435938.17	45435938.33	0.0089	0.0074 *
Mercury	119687-05-31 19:53 G	45435990.23	45435990.33	45435990.47	0.0089	0.0065
Venus	119687-07-20 16:02 G	45436040.01	45436040.17	45436040.35	0.0089	0.0057
Mercury	119687-08-27 22:46 G	45436078.37	45436078.45	45436078.57	0.0089	0.0074
Mercury	119687-11-24 01:38 G	45436166.53	45436166.57	45436166.66	0.0089	0.0083
Venus	119688-03-02 05:14 G	45436265.60	45436265.72	45436265.89	0.0089	0.0067
Venus	119688-10-13 18:55 G	45436491.19	45436491.29	45436491.42	0.0089	0.0077
Venus	119689-05-27 08:07 G	45436716.81	45436716.84	45436716.92	0.0089	0.0086

Mars	119712-02-01 11:58 G	45445000.77	45445001.00	45445001.27	0.0090	0.0057
Mars	119713-12-27 19:10 G	45445696.11	45445696.30	45445696.54	0.0090	0.0067
Venus	119759-03-06 22:17 G	45462201.41	45462201.43	45462201.49	0.0089	0.0087
Venus	119759-10-18 10:31 G	45462426.86	45462426.94	45462427.06	0.0089	0.0078
Venus	119760-05-30 23:00 G	45462652.34	45462652.46	45462652.62	0.0089	0.0069
Venus	119761-01-11 11:14 G	45462877.84	45462877.97	45462878.16	0.0088	0.0060
Jupiter	119761-05-20 23:29 G	45463007.01	45463007.48	45463008.00	0.0088	0.0028
Venus	119761-08-25 00:12 G	45463103.34	45463103.51	45463103.69	0.0088	0.0050
Moon	119761-09-20 20:36 G	45463130.28	45463130.36	45463130.49	0.0088	0.0081
Earth	119761-09-20 21:48 G	45463130.28	45463130.41	45463130.54	0.0088	0.0076 *
Venus	119762-04-07 12:26 G	45463328.84	45463329.02	45463329.22	0.0088	0.0041
Moon	119762-09-23 07:10 G	45463497.59	45463497.80	45463498.03	0.0088	0.0049
Earth	119762-09-23 08:22 G	45463497.66	45463497.85	45463498.07	0.0088	0.0054 *
Venus	119762-11-19 00:55 G	45463554.35	45463554.54	45463554.75	0.0088	0.0031
Venus	119763-07-02 13:38 G	45463779.86	45463780.07	45463780.28	0.0088	0.0022
Earth	119763-09-25 19:10 G	45463865.07	45463865.30	45463865.56	0.0088	0.0031
Moon	119763-09-25 21:34 G	45463865.18	45463865.40	45463865.64	0.0088	0.0035 *
Mercury	119763-11-27 05:00 G	45463927.69	45463927.71	45463927.75	0.0088	0.0086
Venus	119764-02-13 02:07 G	45464005.37	45464005.59	45464005.81	0.0088	0.0012
Mercury	119764-02-23 06:41 G	45464015.73	45464015.78	45464015.86	0.0088	0.0079
Mercury	119764-05-21 08:50 G	45464103.78	45464103.87	45464103.95	0.0088	0.0072
Mercury	119764-08-17 10:17 G	45464191.84	45464191.93	45464192.04	0.0088	0.0065
Venus	119764-09-25 14:36 G	45464230.89	45464231.11	45464231.32	0.0088	0.0004
Moon	119764-09-27 03:19 G	45464232.38	45464232.64	45464232.90	0.0088	0.0003
Earth	119764-09-27 06:26 G	45464232.51	45464232.77	45464233.03	0.0088	0.0007 *
Mercury	119764-11-13 12:12 G	45464279.90	45464280.01	45464280.12	0.0088	0.0058
Mercury	119765-02-09 13:53 G	45464367.96	45464368.08	45464368.20	0.0088	0.0050
Mercury	119765-05-08 15:34 G	45464456.03	45464456.15	45464456.28	0.0088	0.0043
Venus	119765-05-09 02:50 G	45464456.40	45464456.62	45464456.84	0.0088	0.0006
Mercury	119765-08-04 17:14 G	45464544.09	45464544.22	45464544.35	0.0088	0.0036

Earth	119765-09-29 17:14 G	45464599.97	45464600.22	45464600.47	0.0088	0.0016
Moon	119765-09-29 20:50 G	45464600.12	45464600.37	45464600.63	0.0088	0.0011 *
Mercury	119765-10-31 18:55 G	45464632.16	45464632.29	45464632.43	0.0088	0.0029
Venus	119765-12-20 15:19 G	45464681.92	45464682.14	45464682.35	0.0088	0.0015
Mercury	119766-01-27 20:36 G	45464720.22	45464720.36	45464720.50	0.0088	0.0022
Mercury	119766-04-25 22:17 G	45464808.29	45464808.43	45464808.57	0.0088	0.0015
Mercury	119766-07-22 23:58 G	45464896.36	45464896.50	45464896.64	0.0088	0.0008
Venus	119766-08-03 03:48 G	45464907.45	45464907.66	45464907.87	0.0088	0.0025
Moon	119766-10-02 00:55 G	45464967.32	45464967.54	45464967.76	0.0088	0.0043
Earth	119766-10-02 03:48 G	45464967.44	45464967.66	45464967.90	0.0088	0.0038 *
Mercury	119766-10-19 01:38 G	45464984.42	45464984.57	45464984.71	0.0088	0.0002
Mercury	119767-01-15 03:05 G	45465072.49	45465072.63	45465072.78	0.0088	0.0007
Venus	119767-03-16 16:02 G	45465132.98	45465133.17	45465133.38	0.0088	0.0034
Mercury	119767-04-13 04:46 G	45465160.56	45465160.70	45465160.85	0.0088	0.0012
Mercury	119767-07-10 06:26 G	45465248.63	45465248.77	45465248.91	0.0088	0.0019
Earth	119767-10-04 14:22 G	45465334.94	45465335.10	45465335.30	0.0088	0.0061
Moon	119767-10-04 17:00 G	45465335.04	45465335.21	45465335.44	0.0088	0.0058 *
Mercury	119767-10-06 07:53 G	45465336.70	45465336.83	45465336.98	0.0088	0.0026
Venus	119767-10-28 04:31 G	45465358.51	45465358.69	45465358.89	0.0088	0.0043
Mercury	119768-01-02 09:34 G	45465424.77	45465424.90	45465425.04	0.0088	0.0033
Mercury	119768-03-30 11:14 G	45465512.85	45465512.97	45465513.10	0.0088	0.0040
Venus	119768-06-09 17:00 G	45465584.04	45465584.21	45465584.39	0.0088	0.0053
Mercury	119768-06-26 12:41 G	45465600.92	45465601.03	45465601.16	0.0088	0.0047
Mercury	119768-09-22 14:22 G	45465688.99	45465689.10	45465689.22	0.0088	0.0053
Earth	119768-10-06 01:53 G	45465702.50	45465702.58	45465702.65	0.0088	0.0084
Mercury	119768-12-19 16:02 G	45465777.07	45465777.17	45465777.28	0.0088	0.0060
Venus	119769-01-21 05:00 G	45465809.58	45465809.71	45465809.89	0.0088	0.0063
Mercury	119769-03-17 17:29 G	45465865.15	45465865.23	45465865.33	0.0088	0.0067
Mercury	119769-06-13 18:55 G	45465953.23	45465953.29	45465953.38	0.0088	0.0074
Venus	119769-09-03 17:43 G	45466035.13	45466035.24	45466035.39	0.0088	0.0071

Mercury	119769-09-09 20:50 G	45466041.31	45466041.37	45466041.43	0.0088	0.0080
Mercury	119769-12-06 22:17 G	45466129.41	45466129.43	45466129.46	0.0088	0.0086
Venus	119770-04-17 06:12 G	45466260.69	45466260.76	45466260.87	0.0088	0.0080
Mars	119793-10-09 08:36 G	45474836.71	45474836.86	45474837.08	0.0088	0.0071
Mars	119795-09-03 13:53 G	45475530.82	45475531.08	45475531.37	0.0088	0.0039
Venus	119843-03-02 03:34 G	45492876.57	45492876.65	45492876.76	0.0089	0.0080
Venus	119843-10-13 17:00 G	45493102.10	45493102.21	45493102.37	0.0089	0.0071
Venus	119844-05-26 06:41 G	45493327.64	45493327.78	45493327.96	0.0089	0.0061
Venus	119845-01-06 20:50 G	45493553.19	45493553.37	45493553.55	0.0089	0.0051
Moon	119845-03-27 14:36 G	45493632.99	45493633.11	45493633.26	0.0089	0.0075
Earth	119845-03-27 17:58 G	45493633.14	45493633.25	45493633.42	0.0089	0.0075 *
Venus	119845-08-20 10:02 G	45493778.74	45493778.92	45493779.13	0.0089	0.0042
Earth	119846-03-30 06:55 G	45494000.59	45494000.79	45494001.01	0.0089	0.0051
Moon	119846-03-30 10:02 G	45494000.71	45494000.92	45494001.14	0.0089	0.0050 *
Venus	119846-04-02 23:43 G	45494004.29	45494004.49	45494004.71	0.0089	0.0032
Venus	119846-11-14 13:24 G	45494229.85	45494230.06	45494230.28	0.0089	0.0022
Moon	119847-04-01 17:00 G	45494367.99	45494368.21	45494368.46	0.0089	0.0029
Earth	119847-04-01 19:24 G	45494368.08	45494368.31	45494368.57	0.0089	0.0028 *
Venus	119847-06-28 03:05 G	45494455.41	45494455.63	45494455.85	0.0089	0.0013
Mercury	119847-10-25 15:48 G	45494575.15	45494575.16	45494575.21	0.0089	0.0087
Mercury	119848-01-21 18:26 G	45494663.21	45494663.27	45494663.37	0.0089	0.0079
Venus	119848-02-08 16:46 G	45494680.98	45494681.20	45494681.43	0.0089	0.0003
Earth	119848-04-03 08:07 G	45494735.58	45494735.84	45494736.10	0.0089	0.0004
Moon	119848-04-03 08:50 G	45494735.60	45494735.87	45494736.14	0.0089	0.0004 *
Mercury	119848-04-18 21:34 G	45494751.30	45494751.40	45494751.51	0.0089	0.0070
Mercury	119848-07-16 00:12 G	45494839.40	45494839.51	45494839.64	0.0089	0.0062
Venus	119848-09-21 06:26 G	45494906.55	45494906.77	45494906.99	0.0089	0.0007
Mercury	119848-10-12 03:05 G	45494927.50	45494927.63	45494927.77	0.0089	0.0053
Mercury	119849-01-08 05:43 G	45495015.60	45495015.74	45495015.90	0.0089	0.0045
Earth	119849-04-05 20:36 G	45495103.11	45495103.36	45495103.61	0.0089	0.0020

Moon	119849-04-05 21:19 G	45495103.14	45495103.39	45495103.63	0.0089	0.0019	*
Mercury	119849-04-06 08:22 G	45495103.71	45495103.85	45495104.02	0.0089	0.0037	
Venus	119849-05-04 19:53 G	45495132.12	45495132.33	45495132.55	0.0089	0.0017	
Mercury	119849-07-03 11:29 G	45495191.82	45495191.98	45495192.15	0.0089	0.0028	
Mercury	119849-09-29 14:22 G	45495279.93	45495280.10	45495280.27	0.0089	0.0019	
Venus	119849-12-16 09:34 G	45495357.69	45495357.90	45495358.11	0.0089	0.0027	
Mercury	119849-12-26 17:00 G	45495368.04	45495368.21	45495368.39	0.0089	0.0011	
Mercury	119850-03-24 20:07 G	45495456.16	45495456.34	45495456.51	0.0089	0.0003	
Moon	119850-04-08 07:24 G	45495470.58	45495470.81	45495471.04	0.0089	0.0044	
Earth	119850-04-08 08:50 G	45495470.65	45495470.87	45495471.10	0.0089	0.0043	*
Mercury	119850-06-20 22:46 G	45495544.28	45495544.45	45495544.63	0.0089	0.0007	
Venus	119850-07-29 23:00 G	45495583.27	45495583.46	45495583.67	0.0089	0.0036	
Mercury	119850-09-17 01:38 G	45495632.40	45495632.57	45495632.75	0.0089	0.0015	
Mercury	119850-12-14 04:31 G	45495720.52	45495720.69	45495720.86	0.0089	0.0024	
Mercury	119851-03-12 07:10 G	45495808.65	45495808.80	45495808.98	0.0089	0.0033	
Venus	119851-03-12 12:26 G	45495808.85	45495809.02	45495809.22	0.0089	0.0046	*
Earth	119851-04-10 20:50 G	45495838.23	45495838.37	45495838.57	0.0089	0.0067	
Moon	119851-04-10 23:58 G	45495838.36	45495838.50	45495838.69	0.0089	0.0067	*
Mercury	119851-06-08 10:17 G	45495896.78	45495896.93	45495897.09	0.0089	0.0042	
Mercury	119851-09-04 13:10 G	45495984.91	45495985.05	45495985.20	0.0089	0.0050	
Venus	119851-10-24 01:53 G	45496034.43	45496034.58	45496034.77	0.0089	0.0056	
Mercury	119851-12-01 16:02 G	45496073.04	45496073.17	45496073.31	0.0089	0.0059	
Mercury	119852-02-27 18:55 G	45496161.19	45496161.29	45496161.41	0.0089	0.0068	
Mercury	119852-05-25 21:48 G	45496249.33	45496249.41	45496249.51	0.0089	0.0077	
Venus	119852-06-05 15:34 G	45496260.01	45496260.15	45496260.31	0.0089	0.0065	
Mercury	119852-08-22 00:41 G	45496337.50	45496337.53	45496337.59	0.0089	0.0086	
Venus	119853-01-17 05:00 G	45496485.61	45496485.71	45496485.85	0.0089	0.0075	
Venus	119853-08-30 18:41 G	45496711.22	45496711.28	45496711.36	0.0089	0.0085	
Mars	119877-08-12 02:22 G	45505458.30	45505458.60	45505458.93	0.0090	0.0018	
Venus	119923-06-10 09:34 G	45522195.89	45522195.90	45522195.94	0.0089	0.0088	

Venus	119924-01-21 21:48 G	45522421.33	45522421.41	45522421.52	0.0089	0.0079
Venus	119924-09-03 10:02 G	45522646.81	45522646.92	45522647.07	0.0089	0.0070
Venus	119925-04-16 22:17 G	45522872.29	45522872.43	45522872.61	0.0089	0.0061
Earth	119925-09-22 06:26 G	45523030.73	45523030.77	45523030.86	0.0088	0.0086
Moon	119925-09-22 07:38 G	45523030.81	45523030.82	45523030.88	0.0088	0.0088 *
Venus	119925-11-28 10:46 G	45523097.79	45523097.95	45523098.14	0.0088	0.0052
Venus	119926-07-11 23:43 G	45523323.30	45523323.49	45523323.68	0.0088	0.0042
Moon	119926-09-24 15:19 G	45523397.96	45523398.14	45523398.34	0.0088	0.0061
Earth	119926-09-24 17:29 G	45523398.06	45523398.23	45523398.42	0.0088	0.0063 *
Venus	119927-02-22 11:58 G	45523548.81	45523549.00	45523549.21	0.0088	0.0033
Jupiter	119927-07-18 16:46 G	45523694.82	45523695.20	45523695.65	0.0088	0.0053
Earth	119927-09-27 04:46 G	45523765.47	45523765.70	45523765.93	0.0088	0.0040
Moon	119927-09-27 07:24 G	45523765.61	45523765.81	45523766.05	0.0088	0.0043 *
Venus	119927-10-06 00:26 G	45523774.32	45523774.52	45523774.74	0.0088	0.0023
Venus	119928-05-18 12:55 G	45523999.83	45524000.04	45524000.26	0.0088	0.0014
Mercury	119928-08-25 04:31 G	45524098.65	45524098.69	45524098.75	0.0088	0.0083
Moon	119928-09-28 12:12 G	45524132.75	45524133.01	45524133.26	0.0088	0.0016
Earth	119928-09-28 15:34 G	45524132.91	45524133.15	45524133.41	0.0088	0.0017 *
Mercury	119928-11-21 06:12 G	45524186.70	45524186.76	45524186.85	0.0088	0.0076
Venus	119928-12-30 01:24 G	45524225.34	45524225.56	45524225.78	0.0088	0.0004
Mercury	119929-02-17 07:53 G	45524274.75	45524274.83	45524274.93	0.0088	0.0069
Mercury	119929-05-16 09:48 G	45524362.81	45524362.91	45524363.02	0.0088	0.0061
Mercury	119929-08-12 11:29 G	45524450.87	45524450.98	45524451.10	0.0088	0.0054
Venus	119929-08-12 13:53 G	45524450.87	45524451.08	45524451.30	0.0088	0.0005 *
Earth	119929-10-01 02:22 G	45524500.35	45524500.60	45524500.86	0.0088	0.0006
Moon	119929-10-01 05:43 G	45524500.48	45524500.74	45524501.00	0.0088	0.0004 *
Mercury	119929-11-08 13:10 G	45524538.94	45524539.05	45524539.18	0.0088	0.0047
Mercury	119930-02-04 14:50 G	45524627.00	45524627.12	45524627.26	0.0088	0.0040
Venus	119930-03-26 02:22 G	45524676.39	45524676.60	45524676.82	0.0088	0.0014
Mercury	119930-05-03 16:31 G	45524715.07	45524715.19	45524715.34	0.0088	0.0033

Mercury	119930-07-30 18:12 G	45524803.13	45524803.26	45524803.41	0.0088	0.0027
Moon	119930-10-03 10:46 G	45524867.71	45524867.95	45524868.18	0.0088	0.0031
Earth	119930-10-03 13:10 G	45524867.82	45524868.05	45524868.31	0.0088	0.0029 *
Mercury	119930-10-26 19:53 G	45524891.20	45524891.33	45524891.48	0.0088	0.0020
Venus	119930-11-06 14:50 G	45524901.91	45524902.12	45524902.33	0.0088	0.0024
Mercury	119931-01-22 21:48 G	45524979.27	45524979.41	45524979.55	0.0088	0.0012
Mercury	119931-04-20 23:29 G	45525067.34	45525067.48	45525067.62	0.0088	0.0005
Venus	119931-06-20 03:05 G	45525127.44	45525127.63	45525127.84	0.0088	0.0033
Mercury	119931-07-18 01:10 G	45525155.40	45525155.55	45525155.69	0.0088	0.0002
Earth	119931-10-06 00:12 G	45525235.31	45525235.51	45525235.72	0.0088	0.0052
Moon	119931-10-06 01:10 G	45525235.34	45525235.55	45525235.78	0.0088	0.0051 *
Mercury	119931-10-14 02:36 G	45525243.47	45525243.61	45525243.76	0.0088	0.0010
Mercury	119932-01-10 04:17 G	45525331.54	45525331.68	45525331.83	0.0088	0.0016
Venus	119932-01-31 15:34 G	45525352.97	45525353.15	45525353.35	0.0088	0.0042
Mercury	119932-04-07 05:58 G	45525419.61	45525419.75	45525419.89	0.0088	0.0023
Mercury	119932-07-04 07:38 G	45525507.69	45525507.82	45525507.96	0.0088	0.0030
Venus	119932-09-13 04:02 G	45525578.50	45525578.67	45525578.86	0.0088	0.0052
Mercury	119932-09-30 09:05 G	45525595.76	45525595.88	45525596.02	0.0088	0.0037
Earth	119932-10-07 10:46 G	45525602.83	45525602.95	45525603.11	0.0088	0.0075
Moon	119932-10-07 11:14 G	45525602.85	45525602.97	45525603.10	0.0088	0.0076 *
Mercury	119932-12-27 10:46 G	45525683.83	45525683.95	45525684.08	0.0088	0.0043
Mercury	119933-03-25 12:12 G	45525771.91	45525772.01	45525772.14	0.0088	0.0050
Venus	119933-04-26 16:17 G	45525804.04	45525804.18	45525804.36	0.0088	0.0061
Mercury	119933-06-21 14:07 G	45525859.98	45525860.09	45525860.20	0.0088	0.0057
Mercury	119933-09-17 15:34 G	45525948.06	45525948.15	45525948.25	0.0088	0.0063
Venus	119933-12-08 04:46 G	45526029.59	45526029.70	45526029.85	0.0088	0.0070
Mercury	119933-12-14 17:00 G	45526036.14	45526036.21	45526036.31	0.0088	0.0070
Mercury	119934-03-12 18:55 G	45526124.22	45526124.29	45526124.35	0.0088	0.0077
Mercury	119934-06-08 20:22 G	45526212.31	45526212.35	45526212.40	0.0088	0.0083
Venus	119934-07-21 17:29 G	45526255.15	45526255.23	45526255.34	0.0088	0.0079



Mars 119959-04-20 15:19 G 45535293.84 45535294.14 45535294.45 0.0088 0.0004

# 121ST MILLENNIUM CE

This is a list of transits visible from Neptune in the 121st millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	120007-06-04 13:53	G	45552871.00	45552871.08	45552871.18	0.0089	0.0081	
Venus	120008-01-16 03:19	G	45553096.53	45553096.64	45553096.80	0.0089	0.0072	
Venus	120008-08-28 17:14	G	45553322.08	45553322.22	45553322.39	0.0089	0.0062	
Moon	120009-03-28 01:24	G	45553533.48	45553533.56	45553533.69	0.0089	0.0080	
Earth	120009-03-28 03:48	G	45553533.59	45553533.66	45553533.75	0.0089	0.0084	*
Venus	120009-04-11 07:10	G	45553547.62	45553547.80	45553547.98	0.0089	0.0052	
Venus	120009-11-22 20:22	G	45553773.17	45553773.35	45553773.56	0.0089	0.0043	
Earth	120010-03-30 16:02	G	45553901.01	45553901.17	45553901.38	0.0089	0.0061	
Moon	120010-03-30 17:43	G	45553901.07	45553901.24	45553901.43	0.0089	0.0065	*
Venus	120010-07-06 10:17	G	45553998.73	45553998.93	45553999.14	0.0089	0.0033	
Venus	120011-02-16 23:58	G	45554224.29	45554224.50	45554224.72	0.0089	0.0023	
Earth	120011-04-02 05:00	G	45554268.48	45554268.71	45554268.95	0.0089	0.0037	
Moon	120011-04-02 05:14	G	45554268.50	45554268.72	45554268.97	0.0089	0.0033	*
Venus	120011-09-30 13:24	G	45554449.85	45554450.06	45554450.29	0.0089	0.0014	
Moon	120012-04-03 15:19	G	45554635.89	45554636.14	45554636.41	0.0089	0.0018	
Earth	120012-04-03 17:14	G	45554635.98	45554636.22	45554636.49	0.0089	0.0014	*
Venus	120012-05-13 03:19	G	45554675.41	45554675.64	45554675.86	0.0089	0.0004	

Mercury	120012-07-22 15:05 G	45554746.08	45554746.13	45554746.21	0.0089	0.0082
Mercury	120012-10-18 17:43 G	45554834.16	45554834.24	45554834.35	0.0089	0.0074
Venus	120012-12-24 16:46 G	45554900.98	45554901.20	45554901.43	0.0089	0.0006
Mercury	120013-01-14 20:50 G	45554922.25	45554922.37	45554922.49	0.0089	0.0065
Earth	120013-04-06 05:43 G	45555003.49	45555003.74	45555004.00	0.0089	0.0010
Moon	120013-04-06 08:07 G	45555003.60	45555003.84	45555004.10	0.0089	0.0015 *
Mercury	120013-04-12 23:14 G	45555010.35	45555010.47	45555010.62	0.0089	0.0057
Mercury	120013-07-10 01:53 G	45555098.45	45555098.58	45555098.74	0.0089	0.0049
Venus	120013-08-07 06:12 G	45555126.55	45555126.76	45555126.99	0.0089	0.0016
Mercury	120013-10-06 05:00 G	45555186.56	45555186.71	45555186.87	0.0089	0.0040
Mercury	120014-01-02 07:38 G	45555274.67	45555274.82	45555274.99	0.0089	0.0032
Venus	120014-03-20 20:07 G	45555352.12	45555352.34	45555352.55	0.0089	0.0026
Mercury	120014-03-31 10:31 G	45555362.78	45555362.94	45555363.11	0.0089	0.0023
Moon	120014-04-08 14:22 G	45555370.87	45555371.10	45555371.36	0.0089	0.0029
Earth	120014-04-08 18:26 G	45555371.03	45555371.27	45555371.51	0.0089	0.0033 *
Mercury	120014-06-27 13:24 G	45555450.89	45555451.06	45555451.23	0.0089	0.0015
Mercury	120014-09-23 16:17 G	45555539.00	45555539.18	45555539.35	0.0089	0.0006
Venus	120014-11-01 09:19 G	45555577.70	45555577.89	45555578.10	0.0089	0.0035
Mercury	120014-12-20 19:10 G	45555627.12	45555627.30	45555627.47	0.0089	0.0003
Mercury	120015-03-18 21:48 G	45555715.24	45555715.41	45555715.59	0.0089	0.0011
Earth	120015-04-11 06:12 G	45555738.59	45555738.76	45555738.98	0.0089	0.0058
Moon	120015-04-11 10:02 G	45555738.74	45555738.92	45555739.12	0.0089	0.0061 *
Venus	120015-06-14 22:46 G	45555803.27	45555803.45	45555803.66	0.0089	0.0045
Mercury	120015-06-15 00:41 G	45555803.36	45555803.53	45555803.70	0.0089	0.0020 *
Mercury	120015-09-11 03:19 G	45555891.49	45555891.64	45555891.82	0.0089	0.0029
Mercury	120015-12-08 06:26 G	45555979.61	45555979.77	45555979.93	0.0089	0.0037
Venus	120016-01-26 12:12 G	45556028.86	45556029.01	45556029.21	0.0089	0.0056
Mercury	120016-03-05 09:19 G	45556067.74	45556067.89	45556068.04	0.0089	0.0046
Moon	120016-04-12 15:19 G	45556106.04	45556106.14	45556106.30	0.0089	0.0076
Earth	120016-04-12 18:55 G	45556106.19	45556106.29	45556106.41	0.0089	0.0081 *

Mercury	120016-06-01 11:58 G	45556155.88	45556156.00	45556156.15	0.0089	0.0055
Mercury	120016-08-28 14:50 G	45556244.01	45556244.12	45556244.26	0.0089	0.0064
Venus	120016-09-08 02:07 G	45556254.45	45556254.59	45556254.75	0.0089	0.0064
Mercury	120016-11-24 17:43 G	45556332.16	45556332.24	45556332.36	0.0089	0.0073
Mercury	120017-02-20 20:36 G	45556420.31	45556420.36	45556420.45	0.0089	0.0082
Venus	120017-04-21 15:19 G	45556480.04	45556480.14	45556480.29	0.0089	0.0074
Venus	120017-12-03 05:00 G	45556705.65	45556705.71	45556705.80	0.0089	0.0084
Mars	120041-03-27 08:36 G	45565220.57	45565220.86	45565221.17	0.0090	0.0032
Venus	120088-04-24 09:19 G	45582415.82	45582415.89	45582416.00	0.0089	0.0080
Venus	120088-12-05 21:34 G	45582641.29	45582641.40	45582641.55	0.0089	0.0071
Venus	120089-07-19 10:02 G	45582866.78	45582866.92	45582867.10	0.0089	0.0062
Venus	120090-03-01 22:17 G	45583092.28	45583092.43	45583092.63	0.0089	0.0053
Moon	120090-09-23 23:58 G	45583298.39	45583298.50	45583298.64	0.0088	0.0077
Earth	120090-09-24 03:48 G	45583298.51	45583298.66	45583298.81	0.0088	0.0072 *
Venus	120090-10-13 11:00 G	45583317.78	45583317.96	45583318.16	0.0088	0.0043
Venus	120091-05-26 23:14 G	45583543.28	45583543.47	45583543.68	0.0088	0.0034
Earth	120091-09-26 14:07 G	45583665.90	45583666.09	45583666.32	0.0088	0.0050
Moon	120091-09-26 17:29 G	45583666.03	45583666.23	45583666.47	0.0088	0.0045 *
Venus	120092-01-07 11:43 G	45583768.79	45583768.99	45583769.21	0.0088	0.0024
Venus	120092-08-20 00:26 G	45583994.30	45583994.52	45583994.73	0.0088	0.0015
Moon	120092-09-27 22:31 G	45584033.21	45584033.44	45584033.68	0.0088	0.0031
Earth	120092-09-28 01:10 G	45584033.32	45584033.55	45584033.81	0.0088	0.0027 *
Mercury	120093-02-23 02:07 G	45584181.58	45584181.59	45584181.64	0.0088	0.0087
Venus	120093-04-02 12:41 G	45584219.82	45584220.03	45584220.25	0.0088	0.0006
Mercury	120093-05-22 04:17 G	45584269.62	45584269.68	45584269.74	0.0088	0.0079
Mercury	120093-08-18 05:58 G	45584357.67	45584357.75	45584357.84	0.0088	0.0072
Jupiter	120093-09-17 03:48 G	45584387.47	45584387.66	45584387.92	0.0088	0.0080
Earth	120093-09-30 12:12 G	45584400.76	45584401.01	45584401.27	0.0088	0.0004
Moon	120093-09-30 14:22 G	45584400.83	45584401.10	45584401.36	0.0088	0.0002 *
Venus	120093-11-14 01:10 G	45584445.33	45584445.55	45584445.77	0.0088	0.0004

Mercury	120093-11-14 07:38 G	45584445.73	45584445.82	45584445.92	0.0088	0.0065 *
Mercury	120094-02-10 09:19 G	45584533.79	45584533.89	45584534.01	0.0088	0.0057
Mercury	120094-05-09 11:00 G	45584621.85	45584621.96	45584622.09	0.0088	0.0051
Venus	120094-06-27 13:38 G	45584670.86	45584671.07	45584671.29	0.0088	0.0013
Mercury	120094-08-05 12:41 G	45584709.91	45584710.03	45584710.17	0.0088	0.0044
Earth	120094-10-02 23:00 G	45584768.22	45584768.46	45584768.72	0.0088	0.0020
Moon	120094-10-02 23:00 G	45584768.22	45584768.46	45584768.71	0.0088	0.0015 *
Mercury	120094-11-01 14:22 G	45584797.98	45584798.10	45584798.24	0.0088	0.0037
Mercury	120095-01-28 16:17 G	45584886.04	45584886.18	45584886.32	0.0088	0.0029
Venus	120095-02-08 02:07 G	45584896.38	45584896.59	45584896.80	0.0088	0.0023
Mercury	120095-04-26 17:58 G	45584974.11	45584974.25	45584974.39	0.0088	0.0022
Mercury	120095-07-23 19:38 G	45585062.18	45585062.32	45585062.47	0.0088	0.0015
Venus	120095-09-21 14:22 G	45585121.91	45585122.10	45585122.31	0.0088	0.0032
Moon	120095-10-05 08:36 G	45585135.65	45585135.86	45585136.10	0.0088	0.0047
Earth	120095-10-05 09:48 G	45585135.70	45585135.91	45585136.15	0.0088	0.0043 *
Mercury	120095-10-19 21:19 G	45585150.25	45585150.39	45585150.54	0.0088	0.0008
Mercury	120096-01-15 23:00 G	45585238.32	45585238.46	45585238.61	0.0088	0.0001
Mercury	120096-04-13 00:41 G	45585326.39	45585326.53	45585326.67	0.0088	0.0006
Venus	120096-05-04 02:50 G	45585347.44	45585347.62	45585347.82	0.0088	0.0041
Mercury	120096-07-10 02:22 G	45585414.46	45585414.60	45585414.74	0.0088	0.0013
Mercury	120096-10-06 04:02 G	45585502.53	45585502.67	45585502.81	0.0088	0.0020
Earth	120096-10-06 20:36 G	45585503.21	45585503.36	45585503.55	0.0088	0.0065
Moon	120096-10-06 23:00 G	45585503.29	45585503.46	45585503.65	0.0088	0.0061 *
Venus	120096-12-15 15:19 G	45585572.97	45585573.14	45585573.33	0.0088	0.0051
Mercury	120097-01-02 05:29 G	45585590.60	45585590.73	45585590.87	0.0088	0.0027
Mercury	120097-03-31 07:10 G	45585678.67	45585678.80	45585678.94	0.0088	0.0033
Mercury	120097-06-27 08:50 G	45585766.75	45585766.87	45585767.00	0.0088	0.0040
Venus	120097-07-29 04:02 G	45585798.51	45585798.67	45585798.83	0.0088	0.0060
Mercury	120097-09-23 10:17 G	45585854.82	45585854.93	45585855.06	0.0088	0.0047
Earth	120097-10-09 07:24 G	45585870.81	45585870.81	45585870.85	0.0088	0.0088

Mercury	120097-12-20 12:12 G	45585942.89	45585943.01	45585943.12	0.0088	0.0054
Venus	120098-03-11 16:02 G	45586024.06	45586024.17	45586024.33	0.0088	0.0069
Mercury	120098-03-18 13:38 G	45586030.97	45586031.07	45586031.18	0.0088	0.0060
Mercury	120098-06-14 15:05 G	45586119.05	45586119.13	45586119.23	0.0088	0.0067
Mercury	120098-09-10 16:31 G	45586207.13	45586207.19	45586207.28	0.0088	0.0074
Venus	120098-10-23 04:31 G	45586249.61	45586249.69	45586249.81	0.0088	0.0078
Mercury	120098-12-07 18:26 G	45586295.22	45586295.27	45586295.33	0.0088	0.0080
Mercury	120099-03-05 19:53 G	45586383.32	45586383.33	45586383.36	0.0088	0.0087
Venus	120099-06-05 17:00 G	45586475.20	45586475.21	45586475.26	0.0088	0.0088
Mars	120122-12-04 18:26 G	45595057.03	45595057.27	45595057.55	0.0088	0.0047
Mars	120124-10-28 22:46 G	45595751.27	45595751.45	45595751.69	0.0088	0.0064
Venus	120171-09-06 23:43 G	45612865.43	45612865.49	45612865.59	0.0089	0.0083
Venus	120172-04-19 13:38 G	45613090.96	45613091.07	45613091.21	0.0089	0.0073
Venus	120172-12-01 03:34 G	45613316.50	45613316.65	45613316.81	0.0089	0.0063
Venus	120173-07-14 17:00 G	45613542.05	45613542.21	45613542.40	0.0089	0.0054
Venus	120174-02-25 06:41 G	45613767.60	45613767.78	45613767.99	0.0089	0.0044
Moon	120174-03-30 23:43 G	45613801.34	45613801.49	45613801.68	0.0089	0.0068
Earth	120174-03-31 01:38 G	45613801.42	45613801.57	45613801.73	0.0089	0.0070 *
Venus	120174-10-08 20:36 G	45613993.16	45613993.36	45613993.57	0.0089	0.0034
Earth	120175-04-02 13:53 G	45614168.87	45614169.08	45614169.31	0.0089	0.0047
Moon	120175-04-02 16:31 G	45614168.99	45614169.19	45614169.41	0.0089	0.0049 *
Venus	120175-05-22 10:17 G	45614218.72	45614218.93	45614219.15	0.0089	0.0024
Venus	120176-01-02 23:58 G	45614444.29	45614444.50	45614444.72	0.0089	0.0015
Moon	120176-04-03 23:00 G	45614536.22	45614536.46	45614536.73	0.0089	0.0022
Earth	120176-04-04 02:36 G	45614536.36	45614536.61	45614536.86	0.0089	0.0023 *
Venus	120176-08-15 13:38 G	45614669.85	45614670.07	45614670.29	0.0089	0.0005
Mercury	120177-01-21 11:43 G	45614828.95	45614828.99	45614829.04	0.0089	0.0085
Venus	120177-03-29 03:05 G	45614895.41	45614895.63	45614895.86	0.0089	0.0005
Earth	120177-04-06 15:05 G	45614903.87	45614904.13	45614904.39	0.0089	0.0001
Moon	120177-04-06 18:55 G	45614904.03	45614904.29	45614904.55	0.0089	0.0002 *

Mercury	120177-04-19 14:22 G	45614917.02	45614917.10	45614917.19	0.0089	0.0077
Mercury	120177-07-16 17:00 G	45615005.11	45615005.21	45615005.33	0.0089	0.0069
Mercury	120177-10-12 19:38 G	45615093.21	45615093.32	45615093.46	0.0089	0.0061
Venus	120177-11-09 16:31 G	45615120.98	45615121.19	45615121.42	0.0089	0.0015
Mercury	120178-01-08 22:31 G	45615181.31	45615181.44	45615181.59	0.0089	0.0052
Mercury	120178-04-07 01:10 G	45615269.41	45615269.55	45615269.71	0.0089	0.0044
Moon	120178-04-09 00:26 G	45615271.28	45615271.52	45615271.77	0.0089	0.0026
Earth	120178-04-09 03:19 G	45615271.41	45615271.64	45615271.91	0.0089	0.0024 *
Venus	120178-06-23 06:12 G	45615346.55	45615346.76	45615346.98	0.0089	0.0024
Mercury	120178-07-04 04:02 G	45615357.52	45615357.67	45615357.83	0.0089	0.0036
Mercury	120178-09-30 06:41 G	45615445.62	45615445.78	45615445.96	0.0089	0.0027
Mercury	120178-12-27 09:34 G	45615533.74	45615533.90	45615534.08	0.0089	0.0019
Venus	120179-02-03 19:53 G	45615572.13	45615572.33	45615572.54	0.0089	0.0034
Mercury	120179-03-25 12:26 G	45615621.85	45615622.02	45615622.19	0.0089	0.0010
Earth	120179-04-11 15:34 G	45615638.95	45615639.15	45615639.39	0.0089	0.0048
Moon	120179-04-11 18:55 G	45615639.06	45615639.29	45615639.51	0.0089	0.0046 *
Mercury	120179-06-21 15:19 G	45615709.96	45615710.14	45615710.31	0.0089	0.0002
Venus	120179-09-17 09:05 G	45615797.71	45615797.88	45615798.09	0.0089	0.0045
Mercury	120179-09-17 17:58 G	45615798.08	45615798.25	45615798.43	0.0089	0.0008 *
Mercury	120179-12-14 20:50 G	45615886.20	45615886.37	45615886.55	0.0089	0.0016
Mercury	120180-03-11 23:29 G	45615974.32	45615974.48	45615974.66	0.0089	0.0025
Moon	120180-04-13 03:05 G	45616006.50	45616006.63	45616006.78	0.0089	0.0074
Earth	120180-04-13 03:48 G	45616006.53	45616006.66	45616006.84	0.0089	0.0071 *
Venus	120180-04-29 23:00 G	45616023.29	45616023.46	45616023.64	0.0089	0.0053
Mercury	120180-06-08 02:36 G	45616062.45	45616062.61	45616062.77	0.0089	0.0033
Mercury	120180-09-04 05:14 G	45616150.58	45616150.72	45616150.88	0.0089	0.0042
Mercury	120180-12-01 08:07 G	45616238.71	45616238.84	45616238.99	0.0089	0.0051
Venus	120180-12-11 12:12 G	45616248.87	45616249.01	45616249.18	0.0089	0.0064
Mercury	120181-02-27 10:46 G	45616326.84	45616326.95	45616327.10	0.0089	0.0061
Mercury	120181-05-26 14:07 G	45616414.98	45616415.09	45616415.20	0.0089	0.0069

Venus	120181-07-25 01:38 G	45616474.47	45616474.57	45616474.72	0.0089	0.0073
Mercury	120181-08-22 17:00 G	45616503.13	45616503.21	45616503.30	0.0089	0.0077
Mercury	120181-11-18 19:53 G	45616591.30	45616591.33	45616591.38	0.0089	0.0086
Venus	120182-03-07 15:34 G	45616700.08	45616700.15	45616700.24	0.0089	0.0083
Mars	120204-11-10 13:10 G	45624982.95	45624983.05	45624983.21	0.0090	0.0082
Mars	120206-10-07 00:26 G	45625678.26	45625678.52	45625678.82	0.0090	0.0044
Venus	120252-07-28 21:05 G	45642410.31	45642410.38	45642410.49	0.0089	0.0081
Venus	120253-03-11 09:19 G	45642635.79	45642635.89	45642636.04	0.0089	0.0072
Venus	120253-10-22 21:34 G	45642861.27	45642861.40	45642861.58	0.0089	0.0063
Venus	120254-06-05 10:17 G	45643086.76	45643086.93	45643087.11	0.0089	0.0053
Moon	120254-09-25 10:17 G	45643198.86	45643198.93	45643199.05	0.0089	0.0082
Earth	120254-09-25 13:24 G	45643198.99	45643199.06	45643199.19	0.0089	0.0082 *
Venus	120255-01-16 22:31 G	45643312.26	45643312.44	45643312.64	0.0088	0.0044
Venus	120255-08-30 10:46 G	45643537.77	45643537.95	45643538.17	0.0088	0.0035
Earth	120255-09-28 00:26 G	45643566.34	45643566.52	45643566.73	0.0088	0.0059
Moon	120255-09-28 03:05 G	45643566.46	45643566.63	45643566.85	0.0088	0.0058 *
Venus	120256-04-11 23:14 G	45643763.27	45643763.47	45643763.69	0.0088	0.0025
Moon	120256-09-29 09:34 G	45643933.69	45643933.90	45643934.14	0.0088	0.0036
Earth	120256-09-29 11:29 G	45643933.75	45643933.98	45643934.22	0.0088	0.0036 *
Venus	120256-11-23 11:43 G	45643988.78	45643988.99	45643989.21	0.0088	0.0016
Venus	120257-07-07 00:12 G	45644214.30	45644214.51	45644214.73	0.0088	0.0007
Moon	120257-10-01 21:48 G	45644301.16	45644301.41	45644301.68	0.0088	0.0014
Earth	120257-10-01 22:17 G	45644301.18	45644301.43	45644301.68	0.0088	0.0013 *
Mercury	120257-11-22 01:38 G	45644352.54	45644352.57	45644352.64	0.0088	0.0083
Venus	120258-02-17 12:41 G	45644439.82	45644440.03	45644440.25	0.0088	0.0003
Mercury	120258-02-18 03:48 G	45644440.59	45644440.66	45644440.74	0.0088	0.0075
Mercury	120258-05-17 05:29 G	45644528.64	45644528.73	45644528.83	0.0088	0.0068
Mercury	120258-08-13 07:10 G	45644616.70	45644616.80	45644616.91	0.0088	0.0061
Venus	120258-10-01 01:10 G	45644665.33	45644665.55	45644665.76	0.0088	0.0012
Earth	120258-10-04 09:05 G	45644668.63	45644668.88	45644669.14	0.0088	0.0010

Moon	120258-10-04 10:17 G	45644668.69	45644668.93	45644669.18	0.0088	0.0010	*
Mercury	120258-11-09 08:50 G	45644704.76	45644704.87	45644705.00	0.0088	0.0054	
Mercury	120259-02-05 10:31 G	45644792.83	45644792.94	45644793.08	0.0088	0.0047	
Mercury	120259-05-04 12:26 G	45644880.89	45644881.02	45644881.15	0.0088	0.0039	
Venus	120259-05-14 13:24 G	45644890.86	45644891.06	45644891.28	0.0088	0.0022	
Mercury	120259-07-31 14:07 G	45644968.96	45644969.09	45644969.23	0.0088	0.0032	
Moon	120259-10-06 17:43 G	45645036.00	45645036.24	45645036.48	0.0088	0.0033	
Earth	120259-10-06 19:53 G	45645036.11	45645036.33	45645036.59	0.0088	0.0034	*
Mercury	120259-10-27 15:48 G	45645057.03	45645057.16	45645057.30	0.0088	0.0025	
Venus	120259-12-26 01:38 G	45645116.38	45645116.57	45645116.79	0.0088	0.0032	
Mercury	120260-01-23 17:29 G	45645145.09	45645145.23	45645145.38	0.0088	0.0018	
Mercury	120260-04-20 19:10 G	45645233.16	45645233.30	45645233.45	0.0088	0.0012	
Mercury	120260-07-17 21:05 G	45645321.23	45645321.38	45645321.52	0.0088	0.0005	
Venus	120260-08-07 14:22 G	45645341.92	45645342.10	45645342.31	0.0088	0.0041	
Earth	120260-10-08 06:26 G	45645403.60	45645403.77	45645404.00	0.0088	0.0057	
Moon	120260-10-08 10:02 G	45645403.75	45645403.92	45645404.14	0.0088	0.0057	*
Mercury	120260-10-13 22:46 G	45645409.30	45645409.45	45645409.59	0.0088	0.0004	
Mercury	120261-01-10 00:12 G	45645497.37	45645497.51	45645497.66	0.0088	0.0010	
Venus	120261-03-21 03:05 G	45645567.45	45645567.63	45645567.81	0.0088	0.0050	
Mercury	120261-04-08 01:53 G	45645585.44	45645585.58	45645585.73	0.0088	0.0017	
Mercury	120261-07-05 03:34 G	45645673.52	45645673.65	45645673.79	0.0088	0.0024	
Mercury	120261-10-01 05:14 G	45645761.59	45645761.72	45645761.86	0.0088	0.0031	
Moon	120261-10-10 14:07 G	45645771.00	45645771.09	45645771.23	0.0088	0.0078	
Earth	120261-10-10 17:58 G	45645771.14	45645771.25	45645771.37	0.0088	0.0079	*
Venus	120261-11-01 15:05 G	45645792.99	45645793.13	45645793.31	0.0088	0.0059	
Mercury	120261-12-28 06:55 G	45645849.66	45645849.79	45645849.92	0.0088	0.0037	
Mercury	120262-03-26 08:22 G	45645937.74	45645937.85	45645937.98	0.0088	0.0045	
Venus	120262-06-15 03:34 G	45646018.53	45646018.65	45646018.81	0.0088	0.0069	
Mercury	120262-06-22 10:02 G	45646025.81	45646025.92	45646026.04	0.0088	0.0051	
Mercury	120262-09-18 11:29 G	45646113.89	45646113.98	45646114.10	0.0088	0.0058	



Mercury	120262-12-15 13:24 G	45646201.97	45646202.06	45646202.16	0.0088	0.0064
Venus	120263-01-26 16:17 G	45646244.09	45646244.18	45646244.30	0.0088	0.0077
Mercury	120263-03-13 14:50 G	45646290.05	45646290.12	45646290.21	0.0088	0.0071
Mercury	120263-06-09 16:17 G	45646378.13	45646378.18	45646378.26	0.0088	0.0078
Mercury	120263-09-05 18:12 G	45646466.22	45646466.26	45646466.30	0.0088	0.0084
Venus	120263-09-09 05:00 G	45646469.68	45646469.71	45646469.75	0.0088	0.0087
Mars	120288-06-14 02:22 G	45655514.30	45655514.60	45655514.90	0.0088	0.0020
Venus	120335-12-11 10:02 G	45672859.87	45672859.92	45672860.02	0.0089	0.0084
Venus	120336-07-23 23:58 G	45673085.40	45673085.50	45673085.64	0.0089	0.0074
Venus	120337-03-06 13:53 G	45673310.94	45673311.08	45673311.25	0.0089	0.0064
Venus	120337-10-18 03:19 G	45673536.49	45673536.64	45673536.84	0.0089	0.0055
Moon	120338-04-01 08:50 G	45673701.76	45673701.87	45673702.04	0.0089	0.0076
Earth	120338-04-01 10:46 G	45673701.86	45673701.95	45673702.08	0.0089	0.0080 *
Venus	120338-05-31 17:14 G	45673762.04	45673762.22	45673762.43	0.0089	0.0045
Venus	120339-01-12 07:10 G	45673987.61	45673987.80	45673988.02	0.0089	0.0035
Earth	120339-04-03 23:43 G	45674069.29	45674069.49	45674069.69	0.0089	0.0056
Moon	120339-04-04 01:53 G	45674069.42	45674069.58	45674069.79	0.0089	0.0062 *
Venus	120339-08-25 21:05 G	45674213.17	45674213.38	45674213.59	0.0089	0.0025
Moon	120340-04-05 08:50 G	45674436.62	45674436.87	45674437.12	0.0089	0.0028
Earth	120340-04-05 12:12 G	45674436.78	45674437.01	45674437.26	0.0089	0.0033 *
Venus	120340-04-07 10:31 G	45674438.73	45674438.94	45674439.17	0.0089	0.0016
Venus	120340-11-19 00:12 G	45674664.29	45674664.51	45674664.74	0.0089	0.0006
Earth	120341-04-08 00:55 G	45674804.29	45674804.54	45674804.80	0.0089	0.0009
Moon	120341-04-08 04:17 G	45674804.43	45674804.68	45674804.94	0.0089	0.0014 *
Venus	120341-07-02 13:53 G	45674889.86	45674890.08	45674890.30	0.0089	0.0004
Mercury	120341-07-24 08:22 G	45674911.84	45674911.85	45674911.87	0.0089	0.0088
Mercury	120341-10-20 11:00 G	45674999.90	45674999.96	45675000.04	0.0089	0.0080
Mercury	120342-01-16 13:38 G	45675087.98	45675088.07	45675088.18	0.0089	0.0072
Venus	120342-02-13 03:34 G	45675115.43	45675115.65	45675115.87	0.0089	0.0014
Moon	120342-04-10 09:48 G	45675171.67	45675171.91	45675172.17	0.0089	0.0019

Earth	120342-04-10 13:24 G	45675171.81	45675172.06	45675172.32	0.0089	0.0014	*
Mercury	120342-04-14 16:17 G	45675176.07	45675176.18	45675176.31	0.0089	0.0064	
Mercury	120342-07-11 19:10 G	45675264.17	45675264.30	45675264.44	0.0089	0.0055	
Venus	120342-09-26 17:14 G	45675341.00	45675341.22	45675341.43	0.0089	0.0023	
Mercury	120342-10-07 21:48 G	45675352.27	45675352.41	45675352.56	0.0089	0.0047	
Mercury	120343-01-04 00:26 G	45675440.37	45675440.52	45675440.68	0.0089	0.0039	
Mercury	120343-04-02 03:19 G	45675528.48	45675528.64	45675528.81	0.0089	0.0030	
Earth	120343-04-13 01:24 G	45675539.34	45675539.56	45675539.81	0.0089	0.0038	
Moon	120343-04-13 03:48 G	45675539.42	45675539.66	45675539.92	0.0089	0.0033	*
Venus	120343-05-10 06:26 G	45675566.57	45675566.77	45675566.99	0.0089	0.0033	
Mercury	120343-06-29 05:58 G	45675616.59	45675616.75	45675616.93	0.0089	0.0022	
Mercury	120343-09-25 08:50 G	45675704.70	45675704.87	45675705.04	0.0089	0.0013	
Venus	120343-12-21 19:53 G	45675792.15	45675792.33	45675792.54	0.0089	0.0043	
Mercury	120343-12-22 11:43 G	45675792.81	45675792.99	45675793.16	0.0089	0.0005	
Mercury	120344-03-19 14:22 G	45675880.93	45675881.10	45675881.28	0.0089	0.0004	
Moon	120344-04-14 12:26 G	45675906.88	45675907.02	45675907.21	0.0089	0.0066	
Earth	120344-04-14 13:53 G	45675906.91	45675907.08	45675907.28	0.0089	0.0061	*
Mercury	120344-06-15 17:14 G	45675969.05	45675969.22	45675969.39	0.0089	0.0012	
Venus	120344-08-03 09:48 G	45676017.73	45676017.91	45676018.09	0.0089	0.0052	
Mercury	120344-09-11 19:53 G	45676057.17	45676057.33	45676057.51	0.0089	0.0021	
Mercury	120344-12-08 22:46 G	45676145.29	45676145.45	45676145.62	0.0089	0.0030	
Mercury	120345-03-07 01:38 G	45676233.42	45676233.57	45676233.73	0.0089	0.0038	
Venus	120345-03-16 23:00 G	45676243.32	45676243.46	45676243.63	0.0089	0.0062	
Moon	120345-04-17 01:53 G	45676274.50	45676274.58	45676274.73	0.0089	0.0080	
Earth	120345-04-17 01:53 G	45676274.53	45676274.58	45676274.69	0.0089	0.0085	*
Mercury	120345-06-03 04:17 G	45676321.54	45676321.68	45676321.84	0.0089	0.0048	
Mercury	120345-08-30 07:10 G	45676409.68	45676409.80	45676409.95	0.0089	0.0056	
Venus	120345-10-28 12:12 G	45676468.91	45676469.01	45676469.17	0.0089	0.0073	
Mercury	120345-11-26 09:48 G	45676497.81	45676497.91	45676498.05	0.0089	0.0066	
Mercury	120346-02-22 13:10 G	45676585.96	45676586.05	45676586.15	0.0089	0.0074	

Mercury	120346-05-21 16:02 G	45676674.11	45676674.17	45676674.24	0.0089	0.0082
Venus	120346-06-11 02:07 G	45676694.51	45676694.59	45676694.69	0.0089	0.0081
Mars	120370-05-22 06:41 G	45685440.46	45685440.78	45685441.11	0.0090	0.0006
Venus	120416-10-31 08:50 G	45702404.81	45702404.87	45702404.98	0.0089	0.0082
Venus	120417-06-13 21:05 G	45702630.28	45702630.38	45702630.53	0.0089	0.0073
Venus	120418-01-25 10:02 G	45702855.77	45702855.92	45702856.07	0.0089	0.0063
Venus	120418-09-07 22:02 G	45703081.26	45703081.42	45703081.60	0.0089	0.0054
Venus	120419-04-21 10:17 G	45703306.76	45703306.93	45703307.13	0.0089	0.0045
Earth	120419-09-28 11:00 G	45703466.81	45703466.96	45703467.14	0.0089	0.0068
Moon	120419-09-28 14:50 G	45703466.97	45703467.12	45703467.29	0.0089	0.0069 *
Venus	120419-12-02 22:31 G	45703532.26	45703532.44	45703532.65	0.0089	0.0036
Venus	120420-07-15 11:00 G	45703757.77	45703757.96	45703758.18	0.0088	0.0026
Moon	120420-09-29 18:26 G	45703834.06	45703834.27	45703834.50	0.0088	0.0044
Earth	120420-09-29 21:48 G	45703834.20	45703834.41	45703834.64	0.0088	0.0045 *
Venus	120421-02-25 23:29 G	45703983.27	45703983.48	45703983.70	0.0088	0.0017
Earth	120421-10-02 08:07 G	45704201.61	45704201.84	45704202.11	0.0088	0.0023
Moon	120421-10-02 11:29 G	45704201.74	45704201.98	45704202.25	0.0088	0.0023 *
Venus	120421-10-09 11:58 G	45704208.78	45704209.00	45704209.21	0.0088	0.0007
Venus	120422-05-23 00:12 G	45704434.29	45704434.51	45704434.73	0.0088	0.0002
Mercury	120422-05-23 23:29 G	45704435.46	45704435.48	45704435.53	0.0088	0.0086
Mercury	120422-08-20 01:24 G	45704523.51	45704523.56	45704523.64	0.0088	0.0078
Moon	120422-10-04 17:43 G	45704568.99	45704569.24	45704569.49	0.0088	0.0003
Earth	120422-10-04 19:24 G	45704569.05	45704569.31	45704569.57	0.0088	0.0001 *
Mercury	120422-11-16 03:05 G	45704611.56	45704611.63	45704611.73	0.0088	0.0071
Venus	120423-01-03 12:26 G	45704659.81	45704660.02	45704660.24	0.0088	0.0012
Mercury	120423-02-12 05:14 G	45704699.62	45704699.72	45704699.82	0.0088	0.0064
Mercury	120423-05-11 06:55 G	45704787.68	45704787.79	45704787.90	0.0088	0.0057
Mercury	120423-08-07 08:36 G	45704875.74	45704875.86	45704875.98	0.0088	0.0049
Venus	120423-08-17 00:55 G	45704885.34	45704885.54	45704885.76	0.0088	0.0021
Earth	120423-10-07 05:58 G	45704936.51	45704936.75	45704937.00	0.0088	0.0024

Moon	120423-10-07 06:26 G	45704936.52	45704936.77	45704937.03	0.0088	0.0023	*
Mercury	120423-11-03 10:17 G	45704963.81	45704963.93	45704964.06	0.0088	0.0042	
Mercury	120424-01-30 11:58 G	45705051.87	45705052.00	45705052.14	0.0088	0.0035	
Venus	120424-03-29 13:10 G	45705110.86	45705111.05	45705111.27	0.0088	0.0031	
Mercury	120424-04-27 13:38 G	45705139.94	45705140.07	45705140.22	0.0088	0.0029	
Mercury	120424-07-24 15:19 G	45705228.01	45705228.14	45705228.29	0.0088	0.0022	
Earth	120424-10-08 16:46 G	45705303.99	45705304.20	45705304.42	0.0088	0.0047	
Moon	120424-10-08 17:00 G	45705304.03	45705304.21	45705304.44	0.0088	0.0049	*
Mercury	120424-10-20 17:14 G	45705316.08	45705316.22	45705316.36	0.0088	0.0014	
Venus	120424-11-10 01:38 G	45705336.39	45705336.57	45705336.78	0.0088	0.0040	
Mercury	120425-01-16 18:55 G	45705404.14	45705404.29	45705404.43	0.0088	0.0007	
Mercury	120425-04-14 20:36 G	45705492.21	45705492.36	45705492.50	0.0088	0.0000	
Venus	120425-06-23 14:22 G	45705561.92	45705562.10	45705562.29	0.0088	0.0049	
Mercury	120425-07-11 22:17 G	45705580.29	45705580.43	45705580.57	0.0088	0.0007	
Mercury	120425-10-07 23:58 G	45705668.36	45705668.50	45705668.64	0.0088	0.0014	
Moon	120425-10-11 00:41 G	45705671.39	45705671.53	45705671.73	0.0088	0.0068	
Earth	120425-10-11 03:34 G	45705671.51	45705671.65	45705671.82	0.0088	0.0070	*
Mercury	120426-01-04 01:38 G	45705756.43	45705756.57	45705756.71	0.0088	0.0021	
Venus	120426-02-04 02:22 G	45705787.46	45705787.60	45705787.79	0.0088	0.0059	
Mercury	120426-04-02 03:19 G	45705844.50	45705844.64	45705844.77	0.0088	0.0028	
Mercury	120426-06-29 04:46 G	45705932.58	45705932.70	45705932.84	0.0088	0.0035	
Venus	120426-09-17 15:05 G	45706013.01	45706013.13	45706013.29	0.0088	0.0067	
Mercury	120426-09-25 06:26 G	45706020.65	45706020.77	45706020.90	0.0088	0.0041	
Mercury	120426-12-22 08:07 G	45706108.72	45706108.84	45706108.96	0.0088	0.0048	
Mercury	120427-03-20 09:34 G	45706196.80	45706196.90	45706197.02	0.0088	0.0055	
Venus	120427-05-01 03:34 G	45706238.56	45706238.65	45706238.77	0.0088	0.0077	
Mercury	120427-06-16 11:29 G	45706284.88	45706284.98	45706285.08	0.0088	0.0062	
Mercury	120427-09-12 12:55 G	45706372.96	45706373.04	45706373.14	0.0088	0.0068	
Mercury	120427-12-09 14:22 G	45706461.04	45706461.10	45706461.19	0.0088	0.0075	
Venus	120427-12-12 16:17 G	45706464.14	45706464.18	45706464.24	0.0088	0.0086	

Mercury	120428-03-06 15:48 G	45706549.13	45706549.16	45706549.23	0.0088	0.0083
Mars	120452-01-29 07:10 G	45715277.53	45715277.80	45715278.11	0.0088	0.0023
Mars	120453-12-23 10:31 G	45715971.94	45715971.94	45715971.95	0.0088	0.0088
Venus	120500-03-14 20:07 G	45732854.30	45732854.34	45732854.43	0.0089	0.0085
Venus	120500-10-26 10:02 G	45733079.82	45733079.92	45733080.06	0.0089	0.0075
Venus	120501-06-09 00:12 G	45733305.36	45733305.51	45733305.66	0.0089	0.0065
Venus	120502-01-20 13:38 G	45733530.92	45733531.07	45733531.27	0.0089	0.0056
Moon	120502-04-01 23:00 G	45733602.41	45733602.46	45733602.56	0.0089	0.0085
Venus	120502-09-03 03:34 G	45733756.47	45733756.65	45733756.86	0.0089	0.0046
Jupiter	120502-11-23 21:48 G	45733838.06	45733838.41	45733838.87	0.0089	0.0063
Moon	120503-04-04 05:58 G	45733969.61	45733969.75	45733969.92	0.0089	0.0070
Earth	120503-04-04 08:50 G	45733969.71	45733969.87	45733970.05	0.0089	0.0066 *
Venus	120503-04-16 17:29 G	45733982.03	45733982.23	45733982.44	0.0089	0.0036
Venus	120503-11-28 07:24 G	45734207.59	45734207.81	45734208.02	0.0089	0.0026
Earth	120504-04-05 21:19 G	45734337.19	45734337.39	45734337.64	0.0089	0.0043
Moon	120504-04-05 23:29 G	45734337.25	45734337.48	45734337.73	0.0089	0.0038 *
Venus	120504-07-10 20:50 G	45734433.16	45734433.37	45734433.60	0.0089	0.0017
Venus	120505-02-21 10:46 G	45734658.73	45734658.95	45734659.18	0.0089	0.0007
Earth	120505-04-08 10:17 G	45734704.69	45734704.93	45734705.19	0.0089	0.0019
Moon	120505-04-08 10:31 G	45734704.70	45734704.94	45734705.18	0.0089	0.0023 *
Venus	120505-10-05 00:26 G	45734884.30	45734884.52	45734884.75	0.0089	0.0003
Moon	120506-04-10 22:02 G	45735072.16	45735072.42	45735072.69	0.0089	0.0009
Earth	120506-04-10 23:00 G	45735072.21	45735072.46	45735072.72	0.0089	0.0005 *
Mercury	120506-04-21 07:38 G	45735082.77	45735082.82	45735082.88	0.0089	0.0083
Venus	120506-05-18 13:53 G	45735109.87	45735110.08	45735110.31	0.0089	0.0013
Mercury	120506-07-18 10:17 G	45735170.85	45735170.93	45735171.02	0.0089	0.0075
Mercury	120506-10-14 12:41 G	45735258.94	45735259.03	45735259.16	0.0089	0.0067
Venus	120506-12-30 03:34 G	45735335.45	45735335.65	45735335.88	0.0089	0.0023
Mercury	120507-01-10 15:19 G	45735347.03	45735347.14	45735347.29	0.0089	0.0059
Mercury	120507-04-08 18:26 G	45735435.13	45735435.27	45735435.41	0.0089	0.0050

Earth	120507-04-13 11:29 G	45735439.74	45735439.98	45735440.23	0.0089	0.0028
Moon	120507-04-13 13:38 G	45735439.83	45735440.07	45735440.32	0.0089	0.0024 *
Mercury	120507-07-05 21:05 G	45735523.23	45735523.38	45735523.54	0.0089	0.0042
Venus	120507-08-12 17:14 G	45735561.02	45735561.22	45735561.44	0.0089	0.0033
Mercury	120507-10-01 23:58 G	45735611.34	45735611.50	45735611.66	0.0089	0.0034
Mercury	120507-12-29 02:36 G	45735699.45	45735699.61	45735699.78	0.0089	0.0025
Venus	120508-03-25 06:41 G	45735786.60	45735786.78	45735786.99	0.0089	0.0042
Mercury	120508-03-26 05:14 G	45735787.56	45735787.72	45735787.90	0.0089	0.0017
Moon	120508-04-14 20:36 G	45735807.16	45735807.36	45735807.57	0.0089	0.0056
Earth	120508-04-14 23:29 G	45735807.30	45735807.48	45735807.72	0.0089	0.0053 *
Mercury	120508-06-22 08:07 G	45735875.67	45735875.84	45735876.01	0.0089	0.0008
Mercury	120508-09-18 11:00 G	45735963.78	45735963.96	45735964.13	0.0089	0.0002
Venus	120508-11-05 20:07 G	45736012.18	45736012.34	45736012.54	0.0089	0.0052
Mercury	120508-12-15 13:38 G	45736051.90	45736052.07	45736052.25	0.0089	0.0009
Mercury	120509-03-13 16:31 G	45736140.02	45736140.19	45736140.36	0.0089	0.0018
Earth	120509-04-17 12:12 G	45736174.89	45736175.01	45736175.16	0.0089	0.0075
Moon	120509-04-17 15:19 G	45736175.01	45736175.14	45736175.32	0.0089	0.0072 *
Mercury	120509-06-09 19:10 G	45736228.14	45736228.30	45736228.47	0.0089	0.0026
Venus	120509-06-19 09:48 G	45736237.76	45736237.91	45736238.08	0.0089	0.0062
Mercury	120509-09-05 21:48 G	45736316.26	45736316.41	45736316.58	0.0089	0.0036
Mercury	120509-12-03 00:55 G	45736404.39	45736404.54	45736404.69	0.0089	0.0044
Venus	120510-01-30 23:14 G	45736463.36	45736463.47	45736463.63	0.0089	0.0071
Mercury	120510-03-01 03:34 G	45736492.52	45736492.65	45736492.80	0.0089	0.0053
Mercury	120510-05-28 06:26 G	45736580.65	45736580.77	45736580.91	0.0089	0.0061
Mercury	120510-08-24 09:05 G	45736668.79	45736668.88	45736669.01	0.0089	0.0071
Venus	120510-09-13 13:10 G	45736688.96	45736689.05	45736689.15	0.0089	0.0081
Mercury	120510-11-20 11:58 G	45736756.94	45736757.00	45736757.10	0.0089	0.0079
Mercury	120511-02-16 15:19 G	45736845.11	45736845.14	45736845.17	0.0089	0.0088
Mars	120534-01-04 09:34 G	45745202.68	45745202.90	45745203.19	0.0090	0.0056
Mars	120535-11-30 22:31 G	45745898.27	45745898.44	45745898.67	0.0090	0.0071

Venus	120581-02-02 21:19 G	45762399.31	45762399.39	45762399.47	0.0089	0.0082
Venus	120581-09-16 09:34 G	45762624.78	45762624.90	45762625.03	0.0089	0.0073
Venus	120582-04-29 21:34 G	45762850.27	45762850.40	45762850.56	0.0089	0.0064
Venus	120582-12-11 09:48 G	45763075.76	45763075.91	45763076.10	0.0089	0.0055
Venus	120583-07-24 22:17 G	45763301.26	45763301.43	45763301.63	0.0089	0.0046
Moon	120583-09-28 20:36 G	45763367.24	45763367.36	45763367.50	0.0089	0.0075
Earth	120583-09-28 21:48 G	45763367.30	45763367.41	45763367.56	0.0089	0.0077 *
Venus	120584-03-06 11:00 G	45763526.76	45763526.96	45763527.16	0.0089	0.0036
Moon	120584-09-30 08:07 G	45763734.64	45763734.84	45763735.06	0.0088	0.0055
Earth	120584-09-30 08:36 G	45763734.67	45763734.86	45763735.08	0.0088	0.0054 *
Venus	120584-10-17 23:14 G	45763752.26	45763752.47	45763752.68	0.0088	0.0027
Venus	120585-05-31 11:29 G	45763977.77	45763977.98	45763978.20	0.0088	0.0017
Earth	120585-10-02 19:10 G	45764102.08	45764102.30	45764102.56	0.0088	0.0032
Moon	120585-10-02 20:36 G	45764102.14	45764102.36	45764102.61	0.0088	0.0030 *
Venus	120586-01-11 23:43 G	45764203.28	45764203.49	45764203.71	0.0088	0.0008
Venus	120586-08-25 12:12 G	45764428.80	45764429.01	45764429.23	0.0088	0.0002
Moon	120586-10-05 03:34 G	45764469.39	45764469.65	45764469.91	0.0088	0.0010
Earth	120586-10-05 06:12 G	45764469.51	45764469.76	45764470.02	0.0088	0.0008 *
Mercury	120586-11-22 21:34 G	45764518.40	45764518.40	45764518.42	0.0088	0.0088
Mercury	120587-02-18 23:29 G	45764606.43	45764606.48	45764606.54	0.0088	0.0081
Venus	120587-04-08 00:41 G	45764654.31	45764654.53	45764654.74	0.0088	0.0011
Mercury	120587-05-18 01:10 G	45764694.48	45764694.55	45764694.64	0.0088	0.0074
Mercury	120587-08-14 02:50 G	45764782.54	45764782.62	45764782.73	0.0088	0.0067
Earth	120587-10-07 16:46 G	45764836.95	45764837.20	45764837.46	0.0088	0.0015
Moon	120587-10-07 20:22 G	45764837.10	45764837.35	45764837.60	0.0088	0.0016 *
Mercury	120587-11-10 04:46 G	45764870.60	45764870.70	45764870.81	0.0088	0.0059
Venus	120587-11-19 12:41 G	45764879.83	45764880.03	45764880.25	0.0088	0.0020
Mercury	120588-02-06 06:26 G	45764958.66	45764958.77	45764958.90	0.0088	0.0052
Mercury	120588-05-04 08:07 G	45765046.73	45765046.84	45765046.98	0.0088	0.0045
Venus	120588-07-02 01:10 G	45765105.35	45765105.55	45765105.76	0.0088	0.0029

Mercury	120588-07-31 09:48 G	45765134.79	45765134.91	45765135.05	0.0088	0.0039
Moon	120588-10-08 23:43 G	45765204.28	45765204.49	45765204.74	0.0088	0.0037
Earth	120588-10-09 03:19 G	45765204.42	45765204.64	45765204.89	0.0088	0.0038 *
Mercury	120588-10-27 11:43 G	45765222.86	45765222.99	45765223.13	0.0088	0.0031
Mercury	120589-01-23 13:24 G	45765310.92	45765311.06	45765311.21	0.0088	0.0024
Venus	120589-02-12 13:38 G	45765330.88	45765331.07	45765331.27	0.0088	0.0039
Mercury	120589-04-21 15:05 G	45765398.99	45765399.13	45765399.28	0.0088	0.0017
Mercury	120589-07-18 16:46 G	45765487.06	45765487.20	45765487.35	0.0088	0.0011
Venus	120589-09-26 01:38 G	45765556.41	45765556.57	45765556.77	0.0088	0.0049
Earth	120589-10-11 13:53 G	45765571.92	45765572.08	45765572.29	0.0088	0.0061
Moon	120589-10-11 17:14 G	45765572.06	45765572.22	45765572.43	0.0088	0.0063 *
Mercury	120589-10-14 18:41 G	45765575.13	45765575.28	45765575.42	0.0088	0.0003
Mercury	120590-01-10 20:22 G	45765663.20	45765663.35	45765663.49	0.0088	0.0004
Mercury	120590-04-08 22:02 G	45765751.27	45765751.42	45765751.56	0.0088	0.0011
Venus	120590-05-09 14:07 G	45765781.94	45765782.09	45765782.27	0.0088	0.0058
Mercury	120590-07-05 23:29 G	45765839.35	45765839.48	45765839.63	0.0088	0.0019
Mercury	120590-10-02 01:10 G	45765927.42	45765927.55	45765927.70	0.0088	0.0025
Moon	120590-10-13 23:14 G	45765939.39	45765939.47	45765939.56	0.0088	0.0083
Earth	120590-10-14 00:41 G	45765939.48	45765939.53	45765939.64	0.0088	0.0084 *
Venus	120590-12-21 02:36 G	45766007.49	45766007.61	45766007.77	0.0088	0.0067
Mercury	120590-12-29 02:50 G	45766015.49	45766015.62	45766015.76	0.0088	0.0032
Mercury	120591-03-27 04:31 G	45766103.57	45766103.69	45766103.82	0.0088	0.0039
Mercury	120591-06-23 06:12 G	45766191.64	45766191.76	45766191.89	0.0088	0.0045
Venus	120591-08-03 15:34 G	45766233.04	45766233.15	45766233.26	0.0088	0.0076
Mercury	120591-09-19 07:53 G	45766279.72	45766279.83	45766279.95	0.0088	0.0052
Mercury	120591-12-16 09:19 G	45766367.80	45766367.89	45766368.01	0.0088	0.0059
Mercury	120592-03-13 10:46 G	45766455.87	45766455.95	45766456.06	0.0088	0.0067
Venus	120592-03-16 04:17 G	45766458.62	45766458.68	45766458.73	0.0088	0.0085
Mercury	120592-06-09 12:41 G	45766543.96	45766544.03	45766544.12	0.0088	0.0073
Mercury	120592-09-05 14:07 G	45766632.04	45766632.09	45766632.16	0.0088	0.0080



Mercury	120592-12-02 15:34 G	45766720.14	45766720.15	45766720.20	0.0088	0.0087
Mars	120615-09-15 12:41 G	45775040.85	45775041.03	45775041.26	0.0088	0.0065
Mars	120617-08-09 14:50 G	45775734.88	45775735.12	45775735.40	0.0088	0.0045
Venus	120664-06-17 06:41 G	45792848.75	45792848.78	45792848.86	0.0089	0.0086
Venus	120665-01-28 20:50 G	45793074.27	45793074.37	45793074.50	0.0089	0.0076
Venus	120665-09-11 10:46 G	45793299.81	45793299.95	45793300.10	0.0089	0.0066
Venus	120666-04-25 00:12 G	45793525.35	45793525.51	45793525.70	0.0089	0.0057
Venus	120666-12-06 13:53 G	45793750.91	45793751.08	45793751.29	0.0089	0.0047
Moon	120667-04-04 15:34 G	45793870.06	45793870.15	45793870.31	0.0089	0.0079
Earth	120667-04-04 17:43 G	45793870.14	45793870.24	45793870.41	0.0089	0.0076 *
Venus	120667-07-20 03:48 G	45793976.47	45793976.66	45793976.87	0.0089	0.0037
Venus	120668-03-01 17:29 G	45794202.03	45794202.23	45794202.46	0.0089	0.0028
Earth	120668-04-06 06:55 G	45794237.59	45794237.79	45794238.01	0.0089	0.0052
Moon	120668-04-06 09:19 G	45794237.70	45794237.89	45794238.12	0.0089	0.0050 *
Venus	120668-10-13 07:24 G	45794427.60	45794427.81	45794428.03	0.0089	0.0018
Jupiter	120669-01-28 05:58 G	45794534.25	45794534.75	45794535.33	0.0089	0.0030
Moon	120669-04-08 15:48 G	45794604.93	45794605.16	45794605.42	0.0089	0.0032
Earth	120669-04-08 19:38 G	45794605.09	45794605.32	45794605.58	0.0089	0.0029 *
Venus	120669-05-26 21:05 G	45794653.16	45794653.38	45794653.61	0.0089	0.0008
Venus	120670-01-07 11:00 G	45794878.74	45794878.96	45794879.18	0.0089	0.0002
Earth	120670-04-11 08:22 G	45794972.60	45794972.85	45794973.11	0.0089	0.0005
Moon	120670-04-11 11:58 G	45794972.74	45794973.00	45794973.26	0.0089	0.0002 *
Venus	120670-08-21 00:41 G	45795104.31	45795104.53	45795104.75	0.0089	0.0012
Mercury	120670-10-21 03:48 G	45795165.65	45795165.66	45795165.72	0.0089	0.0087
Mercury	120671-01-17 06:55 G	45795253.71	45795253.79	45795253.87	0.0089	0.0078
Venus	120671-04-03 14:07 G	45795329.88	45795330.09	45795330.32	0.0089	0.0022
Moon	120671-04-13 17:43 G	45795340.00	45795340.24	45795340.50	0.0089	0.0017
Earth	120671-04-13 21:05 G	45795340.13	45795340.38	45795340.64	0.0089	0.0019 *
Mercury	120671-04-15 09:34 G	45795341.80	45795341.90	45795342.01	0.0089	0.0070
Mercury	120671-07-12 11:58 G	45795429.89	45795430.00	45795430.14	0.0089	0.0062

Mercury	120671-10-08 14:36 G	45795517.99	45795518.11	45795518.26	0.0089	0.0054
Venus	120671-11-15 03:48 G	45795555.46	45795555.66	45795555.87	0.0089	0.0031
Mercury	120672-01-04 17:29 G	45795606.09	45795606.23	45795606.39	0.0089	0.0045
Mercury	120672-04-01 20:07 G	45795694.19	45795694.34	45795694.51	0.0089	0.0037
Earth	120672-04-15 09:34 G	45795707.68	45795707.90	45795708.14	0.0089	0.0042
Moon	120672-04-15 11:43 G	45795707.78	45795707.99	45795708.24	0.0089	0.0045 *
Venus	120672-06-27 17:14 G	45795781.04	45795781.22	45795781.43	0.0089	0.0041
Mercury	120672-06-28 22:46 G	45795782.30	45795782.45	45795782.63	0.0089	0.0029
Mercury	120672-09-25 01:38 G	45795870.41	45795870.57	45795870.75	0.0089	0.0020
Mercury	120672-12-22 04:31 G	45795958.52	45795958.69	45795958.86	0.0089	0.0012
Venus	120673-02-08 06:55 G	45796006.62	45796006.79	45796006.99	0.0089	0.0051
Mercury	120673-03-20 07:10 G	45796046.63	45796046.80	45796046.98	0.0089	0.0004
Moon	120673-04-17 21:05 G	45796075.22	45796075.38	45796075.57	0.0089	0.0063
Earth	120673-04-17 21:34 G	45796075.25	45796075.40	45796075.60	0.0089	0.0066 *
Mercury	120673-06-16 10:02 G	45796134.75	45796134.92	45796135.10	0.0089	0.0006
Mercury	120673-09-12 12:41 G	45796222.87	45796223.03	45796223.21	0.0089	0.0015
Venus	120673-09-21 20:36 G	45796232.21	45796232.36	45796232.53	0.0089	0.0061
Mercury	120673-12-09 15:34 G	45796310.99	45796311.15	45796311.32	0.0089	0.0023
Mercury	120674-03-07 18:26 G	45796399.11	45796399.27	45796399.43	0.0089	0.0031
Earth	120674-04-20 10:31 G	45796442.94	45796442.94	45796442.95	0.0089	0.0089
Venus	120674-05-05 09:48 G	45796457.80	45796457.91	45796458.07	0.0089	0.0071
Mercury	120674-06-03 21:05 G	45796487.23	45796487.38	45796487.54	0.0089	0.0040
Mercury	120674-08-31 00:12 G	45796575.36	45796575.51	45796575.65	0.0089	0.0049
Mercury	120674-11-27 02:50 G	45796663.49	45796663.62	45796663.76	0.0089	0.0057
Venus	120674-12-16 23:43 G	45796683.40	45796683.49	45796683.59	0.0089	0.0080
Mercury	120675-02-23 05:29 G	45796751.63	45796751.73	45796751.86	0.0089	0.0066
Mercury	120675-05-22 08:22 G	45796839.77	45796839.85	45796839.96	0.0089	0.0075
Venus	120675-07-30 13:10 G	45796909.05	45796909.05	45796909.07	0.0089	0.0089
Mercury	120675-08-18 11:29 G	45796927.93	45796927.98	45796928.04	0.0089	0.0084
Mars	120699-07-16 03:48 G	45805660.35	45805660.66	45805660.98	0.0090	0.0022

Venus	120745-05-09 08:50 G	45822393.80	45822393.87	45822393.95	0.0089	0.0083
Venus	120745-12-20 21:05 G	45822619.27	45822619.38	45822619.51	0.0089	0.0074
Venus	120746-08-03 09:34 G	45822844.76	45822844.90	45822845.05	0.0089	0.0065
Venus	120747-03-16 21:48 G	45823070.25	45823070.41	45823070.59	0.0089	0.0056
Moon	120747-09-30 05:29 G	45823267.65	45823267.73	45823267.84	0.0089	0.0082
Earth	120747-09-30 08:22 G	45823267.81	45823267.85	45823267.93	0.0089	0.0086 *
Venus	120747-10-28 10:02 G	45823295.75	45823295.92	45823296.12	0.0089	0.0046
Venus	120748-06-09 22:31 G	45823521.25	45823521.44	45823521.64	0.0089	0.0037
Earth	120748-10-01 19:10 G	45823635.13	45823635.30	45823635.49	0.0088	0.0063
Moon	120748-10-01 23:00 G	45823635.30	45823635.46	45823635.63	0.0088	0.0067 *
Venus	120749-01-21 10:46 G	45823746.75	45823746.95	45823747.17	0.0088	0.0028
Venus	120749-09-03 23:14 G	45823972.26	45823972.47	45823972.69	0.0088	0.0018
Moon	120749-10-04 02:50 G	45824002.40	45824002.62	45824002.86	0.0088	0.0037
Earth	120749-10-04 05:43 G	45824002.53	45824002.74	45824002.99	0.0088	0.0041 *
Venus	120750-04-17 11:43 G	45824197.77	45824197.99	45824198.20	0.0088	0.0009
Earth	120750-10-06 16:31 G	45824369.95	45824370.19	45824370.45	0.0088	0.0018
Moon	120750-10-06 19:10 G	45824370.06	45824370.30	45824370.57	0.0088	0.0022 *
Venus	120750-11-28 23:58 G	45824423.28	45824423.50	45824423.72	0.0088	0.0000
Venus	120751-07-12 12:26 G	45824648.80	45824649.02	45824649.23	0.0088	0.0010
Mercury	120751-08-21 21:19 G	45824689.35	45824689.39	45824689.44	0.0088	0.0084
Moon	120751-10-09 01:38 G	45824737.33	45824737.57	45824737.83	0.0088	0.0010
Earth	120751-10-09 03:19 G	45824737.39	45824737.64	45824737.90	0.0088	0.0006 *
Mercury	120751-11-17 23:00 G	45824777.40	45824777.46	45824777.54	0.0088	0.0077
Mercury	120752-02-14 00:41 G	45824865.45	45824865.53	45824865.63	0.0088	0.0070
Venus	120752-02-23 00:26 G	45824874.32	45824874.52	45824874.75	0.0088	0.0020
Mercury	120752-05-12 02:36 G	45824953.51	45824953.61	45824953.72	0.0088	0.0062
Mercury	120752-08-08 04:17 G	45825041.58	45825041.68	45825041.80	0.0088	0.0055
Venus	120752-10-05 12:55 G	45825099.84	45825100.04	45825100.25	0.0088	0.0028
Moon	120752-10-10 13:38 G	45825104.82	45825105.07	45825105.33	0.0088	0.0026
Earth	120752-10-10 13:53 G	45825104.85	45825105.08	45825105.33	0.0088	0.0029 *

Mercury	120752-11-04 05:58 G	45825129.64	45825129.75	45825129.89	0.0088	0.0049
Mercury	120753-01-31 07:38 G	45825217.71	45825217.82	45825217.96	0.0088	0.0042
Mercury	120753-04-29 09:34 G	45825305.77	45825305.90	45825306.04	0.0088	0.0034
Venus	120753-05-19 01:10 G	45825325.36	45825325.55	45825325.75	0.0088	0.0038
Mercury	120753-07-26 11:29 G	45825393.84	45825393.98	45825394.12	0.0088	0.0027
Earth	120753-10-13 00:12 G	45825472.33	45825472.51	45825472.75	0.0088	0.0052
Moon	120753-10-13 01:38 G	45825472.39	45825472.57	45825472.78	0.0088	0.0054 *
Mercury	120753-10-22 13:10 G	45825481.91	45825482.05	45825482.19	0.0088	0.0020
Venus	120753-12-30 13:24 G	45825550.89	45825551.06	45825551.26	0.0088	0.0047
Mercury	120754-01-18 14:50 G	45825569.98	45825570.12	45825570.27	0.0088	0.0013
Mercury	120754-04-16 16:31 G	45825658.05	45825658.19	45825658.34	0.0088	0.0006
Mercury	120754-07-13 18:12 G	45825746.12	45825746.26	45825746.41	0.0088	0.0002
Venus	120754-08-13 01:53 G	45825776.43	45825776.58	45825776.76	0.0088	0.0057
Mercury	120754-10-09 19:53 G	45825834.19	45825834.33	45825834.48	0.0088	0.0008
Moon	120754-10-15 08:22 G	45825839.71	45825839.85	45825840.03	0.0088	0.0071
Earth	120754-10-15 10:46 G	45825839.84	45825839.95	45825840.12	0.0088	0.0075 *
Mercury	120755-01-05 21:34 G	45825922.26	45825922.40	45825922.55	0.0088	0.0015
Venus	120755-03-26 14:22 G	45826001.97	45826002.10	45826002.26	0.0088	0.0066
Mercury	120755-04-03 23:14 G	45826010.33	45826010.47	45826010.61	0.0088	0.0022
Mercury	120755-07-01 00:55 G	45826098.41	45826098.54	45826098.68	0.0088	0.0029
Mercury	120755-09-27 02:22 G	45826186.48	45826186.60	45826186.74	0.0088	0.0037
Venus	120755-11-07 02:50 G	45826227.52	45826227.62	45826227.74	0.0088	0.0075
Mercury	120755-12-24 04:17 G	45826274.56	45826274.68	45826274.81	0.0088	0.0043
Mercury	120756-03-21 05:58 G	45826362.63	45826362.75	45826362.87	0.0088	0.0049
Mercury	120756-06-17 07:24 G	45826450.71	45826450.81	45826450.93	0.0088	0.0056
Venus	120756-06-19 14:50 G	45826453.08	45826453.12	45826453.21	0.0088	0.0085
Mercury	120756-09-13 09:05 G	45826538.79	45826538.88	45826538.99	0.0088	0.0063
Mercury	120756-12-10 10:31 G	45826626.87	45826626.94	45826627.04	0.0088	0.0070
Mercury	120757-03-08 12:26 G	45826714.95	45826715.02	45826715.09	0.0088	0.0076
Mercury	120757-06-04 13:53 G	45826803.04	45826803.08	45826803.13	0.0088	0.0083

Mars	120781-03-25 19:10 G	45835498.00	45835498.30	45835498.60	0.0088	0.0002
Venus	120828-09-19 17:00 G	45852843.19	45852843.21	45852843.29	0.0089	0.0087
Venus	120829-05-03 07:10 G	45853068.70	45853068.80	45853068.92	0.0089	0.0077
Venus	120829-12-14 21:05 G	45853294.24	45853294.38	45853294.53	0.0089	0.0067
Venus	120830-07-28 10:31 G	45853519.79	45853519.94	45853520.13	0.0089	0.0058
Venus	120831-03-11 00:26 G	45853745.34	45853745.52	45853745.72	0.0089	0.0048
Earth	120831-04-05 03:34 G	45853770.59	45853770.65	45853770.74	0.0089	0.0085
Moon	120831-04-05 06:55 G	45853770.71	45853770.79	45853770.90	0.0089	0.0082 *
Venus	120831-10-22 14:22 G	45853970.90	45853971.10	45853971.30	0.0089	0.0038
Moon	120832-04-06 12:55 G	45854137.88	45854138.04	45854138.23	0.0089	0.0065
Earth	120832-04-06 16:02 G	45854138.01	45854138.17	45854138.38	0.0089	0.0062 *
Venus	120832-06-04 03:48 G	45854196.46	45854196.66	45854196.89	0.0089	0.0029
Venus	120833-01-15 17:43 G	45854422.03	45854422.24	45854422.47	0.0089	0.0019
Earth	120833-04-09 05:00 G	45854505.49	45854505.71	45854505.95	0.0089	0.0038
Moon	120833-04-09 08:36 G	45854505.63	45854505.86	45854506.11	0.0089	0.0034 *
Venus	120833-08-29 07:38 G	45854647.60	45854647.82	45854648.05	0.0089	0.0009
Moon	120834-04-11 15:19 G	45854872.90	45854873.14	45854873.40	0.0089	0.0018
Earth	120834-04-11 17:58 G	45854873.00	45854873.25	45854873.51	0.0089	0.0015 *
Venus	120834-04-11 21:19 G	45854873.17	45854873.39	45854873.62	0.0089	0.0002 *
Venus	120834-11-23 11:00 G	45855098.74	45855098.96	45855099.18	0.0089	0.0011
Jupiter	120835-04-04 04:31 G	45855230.12	45855230.69	45855231.27	0.0089	0.0005
Earth	120835-04-14 06:41 G	45855240.53	45855240.78	45855241.04	0.0089	0.0009
Moon	120835-04-14 08:22 G	45855240.60	45855240.85	45855241.13	0.0089	0.0013 *
Venus	120835-07-07 00:26 G	45855324.32	45855324.52	45855324.75	0.0089	0.0021
Mercury	120835-07-19 03:05 G	45855336.59	45855336.63	45855336.72	0.0089	0.0082
Mercury	120835-10-15 06:12 G	45855424.67	45855424.76	45855424.85	0.0089	0.0073
Mercury	120836-01-11 08:36 G	45855512.76	45855512.86	45855512.99	0.0089	0.0065
Venus	120836-02-17 14:36 G	45855549.90	45855550.11	45855550.32	0.0089	0.0030
Mercury	120836-04-08 11:14 G	45855600.85	45855600.97	45855601.11	0.0089	0.0057
Moon	120836-04-15 18:26 G	45855608.05	45855608.27	45855608.52	0.0089	0.0029

Earth	120836-04-15 18:55 G	45855608.07	45855608.29	45855608.55	0.0089	0.0033 *
Mercury	120836-07-05 13:53 G	45855688.95	45855689.08	45855689.24	0.0089	0.0049
Venus	120836-09-30 04:02 G	45855775.48	45855775.67	45855775.88	0.0089	0.0040
Mercury	120836-10-01 16:46 G	45855777.05	45855777.20	45855777.36	0.0089	0.0040
Mercury	120836-12-28 19:24 G	45855865.16	45855865.31	45855865.48	0.0089	0.0032
Mercury	120837-03-26 22:17 G	45855953.27	45855953.43	45855953.60	0.0089	0.0023
Moon	120837-04-18 06:26 G	45855975.59	45855975.77	45855975.99	0.0089	0.0059
Earth	120837-04-18 07:38 G	45855975.64	45855975.82	45855976.04	0.0089	0.0056 *
Venus	120837-05-13 17:29 G	45856001.06	45856001.23	45856001.43	0.0089	0.0050
Mercury	120837-06-23 00:55 G	45856041.38	45856041.54	45856041.72	0.0089	0.0015
Mercury	120837-09-19 03:48 G	45856129.49	45856129.66	45856129.83	0.0089	0.0006
Mercury	120837-12-16 06:26 G	45856217.60	45856217.77	45856217.95	0.0089	0.0003
Venus	120837-12-25 06:55 G	45856226.65	45856226.79	45856226.98	0.0089	0.0060
Mercury	120838-03-14 09:19 G	45856305.72	45856305.89	45856306.06	0.0089	0.0011
Earth	120838-04-20 19:53 G	45856343.25	45856343.33	45856343.47	0.0089	0.0080
Moon	120838-04-20 22:17 G	45856343.31	45856343.43	45856343.57	0.0089	0.0077 *
Mercury	120838-06-10 11:58 G	45856393.84	45856394.00	45856394.18	0.0089	0.0019
Venus	120838-08-07 20:50 G	45856452.25	45856452.37	45856452.52	0.0089	0.0069
Mercury	120838-09-06 14:36 G	45856481.96	45856482.11	45856482.29	0.0089	0.0028
Mercury	120838-12-03 17:43 G	45856570.08	45856570.24	45856570.40	0.0089	0.0036
Mercury	120839-03-01 20:22 G	45856658.21	45856658.35	45856658.51	0.0089	0.0045
Venus	120839-03-21 10:17 G	45856677.85	45856677.93	45856678.05	0.0089	0.0079
Mercury	120839-05-28 23:00 G	45856746.34	45856746.46	45856746.61	0.0089	0.0054
Mercury	120839-08-25 02:07 G	45856834.47	45856834.59	45856834.72	0.0089	0.0063
Venus	120839-11-01 23:58 G	45856903.49	45856903.50	45856903.54	0.0089	0.0089
Mercury	120839-11-21 04:46 G	45856922.61	45856922.70	45856922.82	0.0089	0.0072
Mercury	120840-02-17 07:38 G	45857010.76	45857010.82	45857010.91	0.0089	0.0080
Mercury	120840-05-15 10:31 G	45857098.94	45857098.94	45857098.96	0.0089	0.0089
Mars	120863-02-28 06:26 G	45865422.46	45865422.77	45865423.08	0.0090	0.0029
Venus	120909-08-11 20:36 G	45882388.31	45882388.36	45882388.44	0.0089	0.0084

Venus	120910-03-25 08:50 G	45882613.77	45882613.87	45882614.00	0.0089	0.0075
Venus	120910-11-05 21:05 G	45882839.26	45882839.38	45882839.54	0.0089	0.0066
Venus	120911-06-19 09:34 G	45883064.75	45883064.90	45883065.08	0.0089	0.0057
Venus	120912-01-30 22:17 G	45883290.25	45883290.43	45883290.61	0.0089	0.0047
Venus	120912-09-12 10:17 G	45883515.75	45883515.93	45883516.14	0.0089	0.0038
Moon	120912-10-02 02:22 G	45883535.47	45883535.60	45883535.78	0.0089	0.0072
Earth	120912-10-02 06:12 G	45883535.62	45883535.76	45883535.91	0.0089	0.0072 *
Venus	120913-04-25 22:31 G	45883741.25	45883741.44	45883741.66	0.0088	0.0029
Earth	120913-10-04 16:31 G	45883903.00	45883903.19	45883903.42	0.0088	0.0050
Moon	120913-10-04 20:07 G	45883903.14	45883903.34	45883903.56	0.0088	0.0050 *
Venus	120913-12-07 11:14 G	45883966.76	45883966.97	45883967.18	0.0088	0.0019
Venus	120914-07-20 23:43 G	45884192.27	45884192.49	45884192.70	0.0088	0.0010
Moon	120914-10-06 23:43 G	45884270.26	45884270.49	45884270.75	0.0088	0.0026
Earth	120914-10-07 03:19 G	45884270.41	45884270.64	45884270.89	0.0088	0.0027 *
Venus	120915-03-03 11:58 G	45884417.78	45884418.00	45884418.22	0.0088	0.0001
Earth	120915-10-09 14:07 G	45884637.84	45884638.09	45884638.35	0.0088	0.0004
Moon	120915-10-09 17:00 G	45884637.95	45884638.21	45884638.48	0.0088	0.0005 *
Venus	120915-10-15 00:12 G	45884643.30	45884643.51	45884643.73	0.0088	0.0009
Mercury	120916-02-20 19:10 G	45884772.28	45884772.30	45884772.33	0.0088	0.0087
Mercury	120916-05-18 20:50 G	45884860.32	45884860.37	45884860.44	0.0088	0.0080
Venus	120916-05-27 12:26 G	45884868.81	45884869.02	45884869.24	0.0088	0.0018
Mercury	120916-08-14 22:31 G	45884948.37	45884948.44	45884948.54	0.0088	0.0073
Moon	120916-10-10 23:29 G	45885005.24	45885005.48	45885005.72	0.0088	0.0020
Earth	120916-10-11 00:41 G	45885005.29	45885005.53	45885005.79	0.0088	0.0020 *
Mercury	120916-11-11 00:26 G	45885036.43	45885036.52	45885036.63	0.0088	0.0065
Venus	120917-01-08 00:41 G	45885094.33	45885094.53	45885094.75	0.0088	0.0028
Mercury	120917-02-07 02:07 G	45885124.49	45885124.59	45885124.71	0.0088	0.0058
Mercury	120917-05-06 04:17 G	45885212.56	45885212.68	45885212.80	0.0088	0.0051
Mercury	120917-08-02 05:58 G	45885300.62	45885300.75	45885300.88	0.0088	0.0044
Venus	120917-08-21 12:55 G	45885319.86	45885320.04	45885320.26	0.0088	0.0038

Earth	120917-10-13 11:00 G	45885372.76	45885372.96	45885373.21	0.0088	0.0043
Moon	120917-10-13 11:43 G	45885372.77	45885372.99	45885373.24	0.0088	0.0042 *
Mercury	120917-10-29 07:38 G	45885388.69	45885388.82	45885388.96	0.0088	0.0037
Mercury	120918-01-25 09:19 G	45885476.76	45885476.89	45885477.03	0.0088	0.0030
Venus	120918-04-04 01:24 G	45885545.39	45885545.56	45885545.76	0.0088	0.0046
Mercury	120918-04-23 11:00 G	45885564.82	45885564.96	45885565.11	0.0088	0.0023
Mercury	120918-07-20 12:55 G	45885652.89	45885653.04	45885653.18	0.0088	0.0016
Earth	120918-10-15 22:02 G	45885740.25	45885740.42	45885740.60	0.0088	0.0065
Moon	120918-10-15 22:46 G	45885740.30	45885740.45	45885740.63	0.0088	0.0065 *
Mercury	120918-10-16 14:36 G	45885740.96	45885741.11	45885741.25	0.0088	0.0008
Venus	120918-11-15 13:38 G	45885770.92	45885771.07	45885771.25	0.0088	0.0056
Mercury	120919-01-12 16:17 G	45885829.03	45885829.18	45885829.33	0.0088	0.0001
Mercury	120919-04-10 17:58 G	45885917.11	45885917.25	45885917.40	0.0088	0.0005
Venus	120919-06-29 02:22 G	45885996.45	45885996.60	45885996.75	0.0088	0.0065
Mercury	120919-07-07 19:38 G	45886005.18	45886005.32	45886005.46	0.0088	0.0012
Mercury	120919-10-03 21:19 G	45886093.25	45886093.39	45886093.53	0.0088	0.0019
Moon	120919-10-18 06:12 G	45886107.74	45886107.76	45886107.80	0.0088	0.0088
Earth	120919-10-18 08:22 G	45886107.84	45886107.85	45886107.91	0.0088	0.0088
Mercury	120919-12-30 23:00 G	45886181.32	45886181.46	45886181.60	0.0088	0.0026
Venus	120920-02-09 14:07 G	45886222.00	45886222.09	45886222.23	0.0088	0.0075
Mercury	120920-03-28 00:26 G	45886269.40	45886269.52	45886269.66	0.0088	0.0034
Mercury	120920-06-24 02:07 G	45886357.47	45886357.59	45886357.73	0.0088	0.0040
Mercury	120920-09-20 04:02 G	45886445.55	45886445.67	45886445.79	0.0088	0.0047
Venus	120920-09-22 02:36 G	45886447.56	45886447.61	45886447.70	0.0088	0.0084
Mercury	120920-12-17 05:29 G	45886533.62	45886533.73	45886533.85	0.0088	0.0054
Mercury	120921-03-15 07:10 G	45886621.70	45886621.80	45886621.91	0.0088	0.0060
Mercury	120921-06-11 08:36 G	45886709.78	45886709.86	45886709.97	0.0088	0.0067
Mercury	120921-09-07 10:17 G	45886797.86	45886797.93	45886798.02	0.0088	0.0074
Mercury	120921-12-04 11:58 G	45886885.95	45886886.00	45886886.06	0.0088	0.0081
Mercury	120922-03-02 13:24 G	45886974.06	45886974.06	45886974.09	0.0088	0.0088



Mars	120944-11-09 02:36 G	45895261.37	45895261.61	45895261.90	0.0088	0.0041
Mars	120946-10-04 01:53 G	45895955.41	45895955.58	45895955.78	0.0088	0.0069
Venus	120992-12-23 03:19 G	45912837.64	45912837.64	45912837.71	0.0089	0.0088
Venus	120993-08-05 17:29 G	45913063.14	45913063.23	45913063.35	0.0089	0.0078
Venus	120994-03-19 07:24 G	45913288.67	45913288.81	45913288.96	0.0089	0.0068
Venus	120994-10-30 20:50 G	45913514.22	45913514.37	45913514.55	0.0089	0.0059
Venus	120995-06-13 10:31 G	45913739.77	45913739.94	45913740.14	0.0089	0.0049
Venus	120996-01-25 00:41 G	45913965.33	45913965.53	45913965.73	0.0089	0.0039
Earth	120996-04-07 01:24 G	45914038.42	45914038.56	45914038.72	0.0089	0.0071
Moon	120996-04-07 04:02 G	45914038.54	45914038.67	45914038.84	0.0089	0.0071 *
Venus	120996-09-06 14:07 G	45914190.89	45914191.09	45914191.31	0.0089	0.0030
Moon	120997-04-09 10:02 G	45914405.73	45914405.92	45914406.16	0.0089	0.0049
Earth	120997-04-09 14:07 G	45914405.88	45914406.09	45914406.32	0.0089	0.0048 *
Venus	120997-04-20 03:48 G	45914416.45	45914416.66	45914416.89	0.0089	0.0020
Venus	120997-12-01 17:43 G	45914642.02	45914642.24	45914642.46	0.0089	0.0010
Earth	120998-04-12 03:05 G	45914773.38	45914773.63	45914773.88	0.0089	0.0024
Moon	120998-04-12 06:26 G	45914773.52	45914773.77	45914774.03	0.0089	0.0024 *
Venus	120998-07-15 07:24 G	45914867.59	45914867.81	45914868.04	0.0089	0.0002
Venus	120999-02-25 21:05 G	45915093.17	45915093.38	45915093.61	0.0089	0.0010
Moon	120999-04-14 12:41 G	45915140.78	45915141.03	45915141.29	0.0089	0.0002
Earth	120999-04-14 15:48 G	45915140.90	45915141.16	45915141.42	0.0089	0.0001 *
Venus	120999-10-09 11:00 G	45915318.74	45915318.96	45915319.18	0.0089	0.0019
Mercury	121000-01-17 23:43 G	45915419.46	45915419.49	45915419.55	0.0089	0.0085
Mercury	121000-04-16 02:22 G	45915507.53	45915507.60	45915507.69	0.0089	0.0077
Earth	121000-04-17 04:02 G	45915508.43	45915508.67	45915508.93	0.0089	0.0023
Moon	121000-04-17 06:26 G	45915508.52	45915508.77	45915509.04	0.0089	0.0024 *
Venus	121000-05-23 00:26 G	45915544.32	45915544.52	45915544.74	0.0089	0.0029
Mercury	121000-07-13 05:00 G	45915595.62	45915595.71	45915595.83	0.0089	0.0069
Mercury	121000-10-09 07:38 G	45915683.71	45915683.82	45915683.96	0.0089	0.0061

# 122ND MILLENNIUM CE

**This is a list of transits visible from Neptune in the 122nd millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	121001-01-03 14:07	G	45915769.90	45915770.09	45915770.30	0.0089	0.0039	
Mercury	121001-01-05 10:31	G	45915771.81	45915771.94	45915772.08	0.0089	0.0052	
Mercury	121001-04-03 13:10	G	45915859.91	45915860.05	45915860.20	0.0089	0.0044	
Moon	121001-04-19 16:17	G	45915875.98	45915876.18	45915876.40	0.0089	0.0046	
Earth	121001-04-19 16:46	G	45915875.99	45915876.20	45915876.43	0.0089	0.0046	*
Jupiter	121001-06-11 08:07	G	45915928.37	45915928.84	45915929.39	0.0089	0.0040	
Mercury	121001-06-30 15:48	G	45915948.01	45915948.16	45915948.32	0.0089	0.0036	
Venus	121001-08-17 03:34	G	45915995.49	45915995.65	45915995.86	0.0089	0.0050	
Mercury	121001-09-26 18:41	G	45916036.12	45916036.28	45916036.44	0.0089	0.0027	
Mercury	121001-12-23 21:19	G	45916124.22	45916124.39	45916124.56	0.0089	0.0019	
Mercury	121002-03-22 00:12	G	45916212.33	45916212.51	45916212.68	0.0089	0.0011	
Venus	121002-03-30 17:43	G	45916221.08	45916221.24	45916221.41	0.0089	0.0058	
Moon	121002-04-22 05:14	G	45916243.56	45916243.72	45916243.89	0.0089	0.0070	
Earth	121002-04-22 05:00	G	45916243.58	45916243.71	45916243.90	0.0089	0.0071	*
Mercury	121002-06-18 02:50	G	45916300.45	45916300.62	45916300.79	0.0089	0.0002	
Mercury	121002-09-14 05:29	G	45916388.56	45916388.73	45916388.91	0.0089	0.0007	
Venus	121002-11-11 07:10	G	45916446.67	45916446.80	45916446.95	0.0089	0.0068	
Mercury	121002-12-11 08:22	G	45916476.68	45916476.85	45916477.02	0.0089	0.0015	
Mercury	121003-03-09 11:00	G	45916564.80	45916564.96	45916565.13	0.0089	0.0024	

Mercury	121003-06-05 13:53 G	45916652.92	45916653.08	45916653.24	0.0089	0.0033
Venus	121003-06-24 20:22 G	45916672.27	45916672.35	45916672.48	0.0089	0.0079
Mercury	121003-09-01 16:31 G	45916741.05	45916741.19	45916741.35	0.0089	0.0041
Mercury	121003-11-28 19:10 G	45916829.17	45916829.30	45916829.46	0.0089	0.0051
Venus	121004-02-05 10:31 G	45916897.91	45916897.94	45916897.99	0.0089	0.0087
Mercury	121004-02-24 22:17 G	45916917.30	45916917.43	45916917.57	0.0089	0.0059
Mercury	121004-05-23 01:10 G	45917005.44	45917005.55	45917005.67	0.0089	0.0067
Mercury	121004-08-19 03:48 G	45917093.58	45917093.66	45917093.76	0.0089	0.0076
Mercury	121004-11-15 06:26 G	45917181.74	45917181.77	45917181.84	0.0089	0.0086
Mars	121026-10-14 05:00 G	45925184.59	45925184.71	45925184.87	0.0090	0.0081
Mars	121028-09-08 22:17 G	45925880.17	45925880.43	45925880.72	0.0090	0.0048
Venus	121073-11-14 08:22 G	45942382.80	45942382.85	45942382.92	0.0089	0.0085
Venus	121074-06-27 20:36 G	45942608.26	45942608.36	45942608.49	0.0089	0.0076
Venus	121075-02-08 08:50 G	45942833.74	45942833.87	45942834.03	0.0089	0.0067
Venus	121075-09-21 21:05 G	45943059.23	45943059.38	45943059.56	0.0089	0.0058
Venus	121076-05-04 09:34 G	45943284.73	45943284.90	45943285.09	0.0089	0.0048
Earth	121076-10-02 15:48 G	45943436.09	45943436.16	45943436.29	0.0089	0.0082
Moon	121076-10-02 18:12 G	45943436.16	45943436.26	45943436.39	0.0089	0.0079 *
Venus	121076-12-15 21:48 G	45943510.23	45943510.41	45943510.61	0.0089	0.0039
Venus	121077-07-29 10:17 G	45943735.74	45943735.93	45943736.15	0.0088	0.0030
Moon	121077-10-04 23:29 G	45943803.32	45943803.48	45943803.69	0.0088	0.0062
Earth	121077-10-05 02:36 G	45943803.44	45943803.61	45943803.82	0.0088	0.0059 *
Venus	121078-03-11 22:31 G	45943961.24	45943961.44	45943961.67	0.0088	0.0021
Earth	121078-10-07 13:38 G	45944170.84	45944171.07	45944171.31	0.0088	0.0036
Moon	121078-10-07 17:00 G	45944170.98	45944171.21	45944171.45	0.0088	0.0034 *
Venus	121078-10-23 11:14 G	45944186.75	45944186.97	45944187.18	0.0088	0.0011
Venus	121079-06-05 23:29 G	45944412.26	45944412.48	45944412.70	0.0088	0.0001
Moon	121079-10-09 21:05 G	45944538.13	45944538.38	45944538.63	0.0088	0.0016
Earth	121079-10-10 00:41 G	45944538.28	45944538.53	45944538.79	0.0088	0.0013 *
Venus	121080-01-17 11:43 G	45944637.78	45944637.99	45944638.21	0.0088	0.0009

Venus	121080-08-30 00:12 G	45944863.30	45944863.51	45944863.73	0.0088	0.0018
Earth	121080-10-11 11:00 G	45944905.72	45944905.96	45944906.23	0.0088	0.0011
Moon	121080-10-11 14:07 G	45944905.83	45944906.09	45944906.35	0.0088	0.0013 *
Mercury	121080-11-17 18:41 G	45944943.24	45944943.28	45944943.34	0.0088	0.0083
Mercury	121081-02-13 20:22 G	45945031.29	45945031.35	45945031.44	0.0088	0.0076
Venus	121081-04-12 12:41 G	45945088.82	45945089.03	45945089.24	0.0088	0.0027
Mercury	121081-05-12 22:17 G	45945119.35	45945119.43	45945119.53	0.0088	0.0068
Mercury	121081-08-08 23:58 G	45945207.41	45945207.50	45945207.62	0.0088	0.0061
Moon	121081-10-13 19:53 G	45945273.10	45945273.33	45945273.56	0.0088	0.0031
Earth	121081-10-13 22:02 G	45945273.18	45945273.42	45945273.66	0.0088	0.0033 *
Mercury	121081-11-05 02:07 G	45945295.47	45945295.59	45945295.70	0.0088	0.0054
Venus	121081-11-24 00:41 G	45945314.34	45945314.53	45945314.74	0.0088	0.0036
Mercury	121082-02-01 03:48 G	45945383.54	45945383.66	45945383.79	0.0088	0.0047
Mercury	121082-04-30 05:29 G	45945471.60	45945471.73	45945471.87	0.0088	0.0040
Venus	121082-07-07 13:10 G	45945539.87	45945540.05	45945540.25	0.0088	0.0046
Mercury	121082-07-27 07:10 G	45945559.67	45945559.80	45945559.94	0.0088	0.0033
Earth	121082-10-16 08:22 G	45945640.66	45945640.85	45945641.06	0.0088	0.0056
Moon	121082-10-16 08:50 G	45945640.69	45945640.87	45945641.09	0.0088	0.0059 *
Mercury	121082-10-23 09:05 G	45945647.74	45945647.88	45945648.02	0.0088	0.0025
Mercury	121083-01-19 10:46 G	45945735.81	45945735.95	45945736.10	0.0088	0.0018
Venus	121083-02-18 01:38 G	45945765.41	45945765.57	45945765.75	0.0088	0.0055
Mercury	121083-04-17 12:26 G	45945823.88	45945824.02	45945824.17	0.0088	0.0011
Mercury	121083-07-14 14:07 G	45945911.95	45945912.09	45945912.24	0.0088	0.0005
Venus	121083-10-01 13:38 G	45945990.94	45945991.07	45945991.24	0.0088	0.0064
Mercury	121083-10-10 16:02 G	45946000.02	45946000.17	45946000.31	0.0088	0.0003
Earth	121083-10-18 18:55 G	45946008.19	45946008.29	45946008.43	0.0088	0.0079
Moon	121083-10-18 19:53 G	45946008.22	45946008.33	45946008.47	0.0088	0.0076 *
Mercury	121084-01-06 17:29 G	45946088.09	45946088.23	45946088.38	0.0088	0.0011
Mercury	121084-04-03 19:24 G	45946176.17	45946176.31	45946176.45	0.0088	0.0017
Venus	121084-05-14 01:53 G	45946216.48	45946216.58	45946216.72	0.0088	0.0074

Mercury	121084-06-30 21:05 G	45946264.24	45946264.38	45946264.52	0.0088	0.0024
Mercury	121084-09-26 22:46 G	45946352.31	45946352.45	45946352.58	0.0088	0.0030
Mercury	121084-12-24 00:12 G	45946440.39	45946440.51	45946440.65	0.0088	0.0038
Venus	121084-12-25 14:22 G	45946442.04	45946442.10	45946442.19	0.0088	0.0083
Mercury	121085-03-22 01:53 G	45946528.46	45946528.58	45946528.71	0.0088	0.0044
Mercury	121085-06-18 03:34 G	45946616.54	45946616.65	45946616.77	0.0088	0.0051
Mercury	121085-09-14 05:00 G	45946704.62	45946704.71	45946704.83	0.0088	0.0058
Mercury	121085-12-11 06:55 G	45946792.70	45946792.79	45946792.89	0.0088	0.0064
Mercury	121086-03-09 08:22 G	45946880.78	45946880.85	45946880.94	0.0088	0.0071
Mercury	121086-06-05 09:48 G	45946968.86	45946968.91	45946968.99	0.0088	0.0079
Mercury	121086-09-01 11:43 G	45947056.96	45947056.99	45947057.03	0.0088	0.0085
Mars	121108-06-26 08:07 G	45955024.78	45955024.84	45955024.97	0.0088	0.0084
Mars	121110-05-21 07:38 G	45955718.55	45955718.82	45955719.12	0.0088	0.0026
Venus	121157-03-28 13:53 G	45972832.08	45972832.08	45972832.11	0.0089	0.0088
Venus	121157-11-09 03:34 G	45973057.56	45973057.65	45973057.76	0.0089	0.0079
Venus	121158-06-22 17:43 G	45973283.10	45973283.24	45973283.38	0.0089	0.0069
Venus	121159-02-03 07:10 G	45973508.65	45973508.80	45973508.98	0.0089	0.0060
Venus	121159-09-16 21:05 G	45973734.20	45973734.38	45973734.57	0.0089	0.0050
Moon	121160-04-08 09:05 G	45973938.76	45973938.88	45973939.01	0.0089	0.0078
Earth	121160-04-08 10:31 G	45973938.85	45973938.94	45973939.06	0.0089	0.0081 *
Venus	121160-04-29 11:00 G	45973959.76	45973959.96	45973960.16	0.0089	0.0040
Venus	121160-12-11 00:26 G	45974185.32	45974185.52	45974185.74	0.0089	0.0031
Earth	121161-04-10 23:00 G	45974306.29	45974306.46	45974306.68	0.0089	0.0058
Moon	121161-04-11 02:22 G	45974306.42	45974306.60	45974306.80	0.0089	0.0060 *
Venus	121161-07-24 14:07 G	45974410.88	45974411.09	45974411.32	0.0089	0.0021
Venus	121162-03-07 04:02 G	45974636.45	45974636.67	45974636.90	0.0089	0.0011
Moon	121162-04-13 08:22 G	45974673.62	45974673.85	45974674.11	0.0089	0.0031
Earth	121162-04-13 12:12 G	45974673.78	45974674.01	45974674.25	0.0089	0.0034 *
Venus	121162-10-18 17:43 G	45974862.02	45974862.24	45974862.47	0.0089	0.0002
Earth	121163-04-16 00:41 G	45975041.28	45975041.53	45975041.80	0.0089	0.0011

Moon	121163-04-16 04:17 G	45975041.43	45975041.68	45975041.94	0.0089	0.0013	*
Venus	121163-06-01 07:24 G	45975087.59	45975087.81	45975088.04	0.0089	0.0009	
Venus	121164-01-12 21:19 G	45975313.17	45975313.39	45975313.61	0.0089	0.0018	
Moon	121164-04-17 10:02 G	45975408.68	45975408.92	45975409.18	0.0089	0.0016	
Earth	121164-04-17 13:24 G	45975408.81	45975409.06	45975409.32	0.0089	0.0013	*
Mercury	121164-07-19 20:22 G	45975502.35	45975502.35	45975502.37	0.0089	0.0089	
Venus	121164-08-25 10:46 G	45975538.75	45975538.95	45975539.17	0.0089	0.0028	
Mercury	121164-10-15 23:14 G	45975590.40	45975590.47	45975590.54	0.0089	0.0080	
Mercury	121165-01-12 01:38 G	45975678.48	45975678.57	45975678.67	0.0089	0.0072	
Venus	121165-04-08 00:26 G	45975764.33	45975764.52	45975764.73	0.0089	0.0038	
Mercury	121165-04-10 04:17 G	45975766.57	45975766.68	45975766.80	0.0089	0.0064	
Earth	121165-04-20 01:38 G	45975776.35	45975776.57	45975776.83	0.0089	0.0037	
Moon	121165-04-20 03:48 G	45975776.43	45975776.66	45975776.92	0.0089	0.0034	*
Mercury	121165-07-07 06:41 G	45975854.66	45975854.78	45975854.93	0.0089	0.0056	
Mercury	121165-10-03 09:19 G	45975942.76	45975942.89	45975943.05	0.0089	0.0048	
Venus	121165-11-19 13:53 G	45975989.91	45975990.08	45975990.28	0.0089	0.0048	
Mercury	121165-12-30 12:12 G	45976030.86	45976031.01	45976031.17	0.0089	0.0039	
Mercury	121166-03-28 14:50 G	45976118.97	45976119.12	45976119.29	0.0089	0.0031	
Moon	121166-04-22 13:10 G	45976143.89	45976144.05	45976144.24	0.0089	0.0062	
Earth	121166-04-22 14:22 G	45976143.93	45976144.10	45976144.31	0.0089	0.0060	*
Mercury	121166-06-24 17:29 G	45976207.08	45976207.23	45976207.41	0.0089	0.0023	
Venus	121166-07-03 03:48 G	45976215.50	45976215.66	45976215.83	0.0089	0.0057	
Mercury	121166-09-20 20:22 G	45976295.18	45976295.35	45976295.52	0.0089	0.0014	
Mercury	121166-12-17 23:14 G	45976383.29	45976383.47	45976383.64	0.0089	0.0006	
Venus	121167-02-13 17:14 G	45976441.10	45976441.22	45976441.39	0.0089	0.0067	
Mercury	121167-03-16 01:53 G	45976471.41	45976471.58	45976471.75	0.0089	0.0003	
Moon	121167-04-25 02:22 G	45976511.52	45976511.60	45976511.74	0.0089	0.0081	
Earth	121167-04-25 03:05 G	45976511.55	45976511.63	45976511.73	0.0089	0.0084	*
Mercury	121167-06-12 04:46 G	45976559.52	45976559.70	45976559.87	0.0089	0.0012	
Jupiter	121167-08-20 01:24 G	45976628.31	45976628.56	45976628.89	0.0089	0.0076	

Mercury	121167-09-08 07:24 G	45976647.64	45976647.81	45976647.98	0.0089	0.0020
Venus	121167-09-27 06:41 G	45976666.70	45976666.78	45976666.92	0.0089	0.0077
Mercury	121167-12-05 10:17 G	45976735.76	45976735.93	45976736.09	0.0089	0.0029
Mercury	121168-03-02 12:55 G	45976823.89	45976824.04	45976824.20	0.0089	0.0037
Venus	121168-05-09 20:36 G	45976892.32	45976892.36	45976892.43	0.0089	0.0086
Mercury	121168-05-29 15:34 G	45976912.01	45976912.15	45976912.31	0.0089	0.0046
Mercury	121168-08-25 18:26 G	45977000.14	45977000.27	45977000.41	0.0089	0.0055
Mercury	121168-11-21 21:05 G	45977088.27	45977088.38	45977088.52	0.0089	0.0064
Mercury	121169-02-17 23:58 G	45977176.41	45977176.50	45977176.61	0.0089	0.0072
Mercury	121169-05-17 02:36 G	45977264.56	45977264.61	45977264.70	0.0089	0.0081
Mars	121192-04-23 22:17 G	45985642.10	45985642.43	45985642.76	0.0090	0.0004
Venus	121238-02-16 20:07 G	46002377.31	46002377.34	46002377.41	0.0089	0.0086
Venus	121238-09-30 08:21 G	46002602.76	46002602.85	46002602.97	0.0089	0.0077
Venus	121239-05-13 20:21 G	46002828.24	46002828.35	46002828.51	0.0089	0.0068
Venus	121239-12-25 08:36 G	46003053.72	46003053.86	46003054.05	0.0089	0.0059
Venus	121240-08-06 21:33 G	46003279.22	46003279.40	46003279.58	0.0089	0.0049
Venus	121241-03-20 09:33 G	46003504.72	46003504.90	46003505.10	0.0089	0.0040
Earth	121241-10-05 12:55 G	46003703.89	46003704.04	46003704.22	0.0089	0.0068
Moon	121241-10-05 14:50 G	46003703.96	46003704.12	46003704.30	0.0089	0.0064 *
Venus	121241-10-31 21:48 G	46003730.22	46003730.41	46003730.62	0.0089	0.0031
Venus	121242-06-14 10:02 G	46003955.72	46003955.92	46003956.14	0.0088	0.0022
Moon	121242-10-07 20:50 G	46004071.17	46004071.37	46004071.60	0.0088	0.0050
Earth	121242-10-07 23:57 G	46004071.28	46004071.50	46004071.72	0.0088	0.0045 *
Venus	121243-01-25 22:31 G	46004181.23	46004181.44	46004181.66	0.0088	0.0012
Venus	121243-09-08 11:00 G	46004406.74	46004406.96	46004407.18	0.0088	0.0002
Earth	121243-10-10 10:17 G	46004438.69	46004438.93	46004439.19	0.0088	0.0023
Moon	121243-10-10 13:53 G	46004438.84	46004439.08	46004439.34	0.0088	0.0018 *
Jupiter	121244-03-14 14:50 G	46004594.88	46004595.12	46004595.49	0.0088	0.0072
Venus	121244-04-20 23:14 G	46004632.26	46004632.47	46004632.69	0.0088	0.0007
Moon	121244-10-11 17:57 G	46004806.00	46004806.25	46004806.51	0.0088	0.0004

Earth	121244-10-11 21:19 G	46004806.14	46004806.39	46004806.65	0.0088	0.0002	*
Venus	121244-12-02 11:29 G	46004857.78	46004857.98	46004858.20	0.0088	0.0017	
Mercury	121245-05-19 16:31 G	46005026.16	46005026.19	46005026.23	0.0088	0.0086	
Venus	121245-07-16 00:12 G	46005083.30	46005083.51	46005083.72	0.0088	0.0026	
Mercury	121245-08-15 18:12 G	46005114.21	46005114.26	46005114.34	0.0088	0.0079	
Earth	121245-10-14 07:53 G	46005173.59	46005173.83	46005174.08	0.0088	0.0023	
Moon	121245-10-14 11:14 G	46005173.73	46005173.97	46005174.22	0.0088	0.0028	*
Mercury	121245-11-11 20:07 G	46005202.26	46005202.34	46005202.43	0.0088	0.0071	
Mercury	121246-02-07 21:48 G	46005290.32	46005290.41	46005290.52	0.0088	0.0064	
Venus	121246-02-26 12:12 G	46005308.82	46005309.01	46005309.22	0.0088	0.0035	
Mercury	121246-05-06 23:29 G	46005378.38	46005378.48	46005378.61	0.0088	0.0058	
Mercury	121246-08-03 01:38 G	46005466.45	46005466.57	46005466.69	0.0088	0.0050	
Venus	121246-10-10 00:41 G	46005534.35	46005534.53	46005534.72	0.0088	0.0044	
Moon	121246-10-16 16:31 G	46005540.98	46005541.19	46005541.42	0.0088	0.0042	
Earth	121246-10-16 18:26 G	46005541.07	46005541.27	46005541.50	0.0088	0.0047	*
Mercury	121246-10-30 03:19 G	46005554.51	46005554.64	46005554.77	0.0088	0.0043	
Mercury	121247-01-26 05:00 G	46005642.58	46005642.71	46005642.85	0.0088	0.0036	
Mercury	121247-04-24 06:55 G	46005730.65	46005730.79	46005730.93	0.0088	0.0028	
Venus	121247-05-23 12:55 G	46005759.88	46005760.04	46005760.22	0.0088	0.0054	
Mercury	121247-07-21 08:36 G	46005818.72	46005818.86	46005819.00	0.0088	0.0021	
Mercury	121247-10-17 10:17 G	46005906.79	46005906.93	46005907.08	0.0088	0.0015	
Earth	121247-10-19 04:45 G	46005908.57	46005908.70	46005908.89	0.0088	0.0070	
Moon	121247-10-19 05:29 G	46005908.61	46005908.73	46005908.91	0.0088	0.0074	*
Venus	121248-01-04 00:55 G	46005985.41	46005985.54	46005985.71	0.0088	0.0064	
Mercury	121248-01-13 12:12 G	46005994.86	46005995.01	46005995.15	0.0088	0.0008	
Mercury	121248-04-10 13:53 G	46006082.93	46006083.08	46006083.22	0.0088	0.0001	
Mercury	121248-07-07 15:33 G	46006171.00	46006171.15	46006171.30	0.0088	0.0007	
Venus	121248-08-16 13:24 G	46006210.96	46006211.06	46006211.21	0.0088	0.0073	
Mercury	121248-10-03 17:14 G	46006259.08	46006259.22	46006259.36	0.0088	0.0014	
Moon	121248-10-20 15:48 G	46006276.15	46006276.16	46006276.21	0.0088	0.0088	



Mercury	121248-12-30 18:55 G	46006347.15	46006347.29	46006347.43	0.0088	0.0021
Mercury	121249-03-28 20:36 G	46006435.22	46006435.36	46006435.50	0.0088	0.0027
Venus	121249-03-30 01:53 G	46006436.52	46006436.58	46006436.68	0.0088	0.0082
Mercury	121249-06-24 22:17 G	46006523.30	46006523.43	46006523.56	0.0088	0.0034
Mercury	121249-09-20 23:43 G	46006611.37	46006611.49	46006611.63	0.0088	0.0042
Mercury	121249-12-18 01:24 G	46006699.45	46006699.56	46006699.69	0.0088	0.0048
Mercury	121250-03-16 03:05 G	46006787.53	46006787.63	46006787.75	0.0088	0.0055
Mercury	121250-06-12 04:45 G	46006875.61	46006875.70	46006875.81	0.0088	0.0062
Mercury	121250-09-08 06:26 G	46006963.69	46006963.77	46006963.86	0.0088	0.0068
Mercury	121250-12-05 07:53 G	46007051.77	46007051.83	46007051.92	0.0088	0.0075
Mercury	121251-03-03 09:48 G	46007139.86	46007139.91	46007139.96	0.0088	0.0082
Mars	121274-01-03 13:38 G	46015481.79	46015482.07	46015482.37	0.0088	0.0018
Venus	121322-02-11 12:55 G	46033051.97	46033052.04	46033052.16	0.0089	0.0081
Venus	121322-09-25 02:50 G	46033277.51	46033277.62	46033277.77	0.0089	0.0071
Venus	121323-05-08 17:00 G	46033503.05	46033503.21	46033503.38	0.0089	0.0061
Venus	121323-12-20 06:55 G	46033728.61	46033728.79	46033728.97	0.0089	0.0051
Venus	121324-08-01 20:21 G	46033954.17	46033954.35	46033954.56	0.0089	0.0042
Venus	121325-03-15 10:17 G	46034179.73	46034179.93	46034180.15	0.0089	0.0032
Moon	121325-04-11 05:14 G	46034206.56	46034206.72	46034206.94	0.0089	0.0063
Earth	121325-04-11 07:24 G	46034206.67	46034206.81	46034207.00	0.0089	0.0068 *
Venus	121325-10-26 23:57 G	46034405.29	46034405.50	46034405.73	0.0089	0.0022
Earth	121326-04-13 20:21 G	46034574.14	46034574.35	46034574.59	0.0089	0.0044
Moon	121326-04-13 23:14 G	46034574.27	46034574.47	46034574.70	0.0089	0.0049 *
Venus	121326-06-09 13:53 G	46034630.86	46034631.08	46034631.30	0.0089	0.0012
Venus	121327-01-21 03:33 G	46034856.43	46034856.65	46034856.88	0.0089	0.0003
Moon	121327-04-16 05:43 G	46034941.49	46034941.74	46034942.01	0.0089	0.0016
Earth	121327-04-16 09:05 G	46034941.64	46034941.88	46034942.14	0.0089	0.0021 *
Venus	121327-09-03 17:29 G	46035082.00	46035082.23	46035082.45	0.0089	0.0007
Venus	121328-04-16 06:55 G	46035307.58	46035307.79	46035308.01	0.0089	0.0017
Earth	121328-04-17 21:48 G	46035309.16	46035309.41	46035309.67	0.0089	0.0003

Moon	121328-04-18 01:38 G	46035309.31	46035309.57	46035309.83	0.0089	0.0002	*
Venus	121328-11-27 20:21 G	46035533.15	46035533.35	46035533.58	0.0089	0.0027	
Mercury	121329-04-16 19:24 G	46035673.27	46035673.31	46035673.37	0.0089	0.0084	
Moon	121329-04-20 07:24 G	46035676.59	46035676.81	46035677.06	0.0089	0.0031	
Earth	121329-04-20 10:31 G	46035676.70	46035676.94	46035677.19	0.0089	0.0026	*
Venus	121329-07-11 10:02 G	46035758.73	46035758.92	46035759.14	0.0089	0.0037	
Mercury	121329-07-13 22:02 G	46035761.34	46035761.42	46035761.51	0.0089	0.0076	
Mercury	121329-10-10 00:26 G	46035849.42	46035849.52	46035849.64	0.0089	0.0068	
Mercury	121330-01-06 03:05 G	46035937.52	46035937.63	46035937.77	0.0089	0.0060	
Venus	121330-02-21 23:57 G	46035984.32	46035984.50	46035984.70	0.0089	0.0046	
Mercury	121330-04-04 05:43 G	46036025.61	46036025.74	46036025.89	0.0089	0.0052	
Earth	121330-04-22 22:45 G	46036044.25	46036044.45	46036044.68	0.0089	0.0050	
Moon	121330-04-23 01:09 G	46036044.35	46036044.55	46036044.80	0.0089	0.0046	*
Mercury	121330-07-01 08:36 G	46036113.71	46036113.86	46036114.01	0.0089	0.0043	
Mercury	121330-09-27 11:14 G	46036201.82	46036201.97	46036202.13	0.0089	0.0035	
Venus	121330-10-05 13:24 G	46036209.91	46036210.06	46036210.25	0.0089	0.0056	
Mercury	121330-12-24 13:53 G	46036289.92	46036290.08	46036290.25	0.0089	0.0027	
Mercury	121331-03-22 16:31 G	46036378.03	46036378.19	46036378.36	0.0089	0.0018	
Moon	121331-04-25 10:17 G	46036411.83	46036411.93	46036412.06	0.0089	0.0078	
Earth	121331-04-25 11:29 G	46036411.85	46036411.98	46036412.14	0.0089	0.0073	*
Venus	121331-05-19 02:50 G	46036435.50	46036435.62	46036435.79	0.0089	0.0066	
Mercury	121331-06-18 19:24 G	46036466.14	46036466.31	46036466.48	0.0089	0.0010	
Mercury	121331-09-14 22:02 G	46036554.25	46036554.42	46036554.59	0.0089	0.0002	
Mercury	121331-12-12 00:55 G	46036642.36	46036642.54	46036642.71	0.0089	0.0007	
Venus	121331-12-30 17:00 G	46036661.10	46036661.21	46036661.33	0.0089	0.0075	
Mercury	121332-03-09 03:19 G	46036730.48	46036730.64	46036730.82	0.0089	0.0016	
Mercury	121332-06-05 06:12 G	46036818.60	46036818.76	46036818.93	0.0089	0.0024	
Venus	121332-08-12 06:26 G	46036886.72	46036886.77	46036886.85	0.0089	0.0085	
Mercury	121332-09-01 08:50 G	46036906.72	46036906.87	46036907.04	0.0089	0.0033	
Mercury	121332-11-28 11:43 G	46036994.84	46036994.99	46036995.15	0.0089	0.0042	

Mercury	121333-02-24 14:21 G	46037082.97	46037083.10	46037083.26	0.0089	0.0050
Mercury	121333-05-23 17:00 G	46037171.10	46037171.21	46037171.36	0.0089	0.0060
Mercury	121333-08-19 20:07 G	46037259.24	46037259.34	46037259.46	0.0089	0.0068
Mercury	121333-11-15 22:45 G	46037347.38	46037347.45	46037347.55	0.0089	0.0077
Mercury	121334-02-12 01:38 G	46037435.54	46037435.57	46037435.63	0.0089	0.0085
Mars	121355-12-07 18:55 G	46045404.07	46045404.29	46045404.57	0.0090	0.0058
Mars	121357-11-02 12:55 G	46046099.88	46046100.04	46046100.27	0.0090	0.0073
Venus	121402-05-23 07:38 G	46062371.80	46062371.82	46062371.88	0.0089	0.0087
Venus	121403-01-03 19:53 G	46062597.25	46062597.33	46062597.45	0.0089	0.0078
Venus	121403-08-17 08:07 G	46062822.73	46062822.84	46062823.00	0.0089	0.0069
Venus	121404-03-29 20:21 G	46063048.21	46063048.35	46063048.53	0.0089	0.0060
Venus	121404-11-10 08:50 G	46063273.70	46063273.87	46063274.06	0.0089	0.0050
Venus	121405-06-23 21:05 G	46063499.20	46063499.38	46063499.58	0.0089	0.0041
Moon	121405-10-06 22:17 G	46063604.35	46063604.43	46063604.56	0.0089	0.0081
Earth	121405-10-06 23:29 G	46063604.36	46063604.48	46063604.61	0.0089	0.0077 *
Venus	121406-02-04 09:19 G	46063724.70	46063724.89	46063725.10	0.0089	0.0032
Venus	121406-09-17 21:48 G	46063950.20	46063950.41	46063950.62	0.0089	0.0022
Earth	121406-10-09 09:33 G	46063971.72	46063971.90	46063972.12	0.0088	0.0055
Moon	121406-10-09 11:00 G	46063971.78	46063971.96	46063972.19	0.0088	0.0051 *
Venus	121407-05-01 10:02 G	46064175.71	46064175.92	46064176.14	0.0088	0.0013
Moon	121407-10-11 17:14 G	46064338.99	46064339.22	46064339.47	0.0088	0.0036
Earth	121407-10-11 20:21 G	46064339.12	46064339.35	46064339.60	0.0088	0.0032 *
Venus	121407-12-12 22:17 G	46064401.22	46064401.43	46064401.65	0.0088	0.0004
Venus	121408-07-25 10:45 G	46064626.74	46064626.95	46064627.17	0.0088	0.0006
Earth	121408-10-13 06:55 G	46064706.54	46064706.79	46064707.05	0.0088	0.0009
Moon	121408-10-13 10:17 G	46064706.68	46064706.93	46064707.19	0.0088	0.0006 *
Venus	121409-03-07 23:00 G	46064852.25	46064852.46	46064852.68	0.0088	0.0016
Moon	121409-10-15 14:21 G	46065073.85	46065074.10	46065074.36	0.0088	0.0010
Earth	121409-10-15 17:43 G	46065074.00	46065074.24	46065074.50	0.0088	0.0015 *
Venus	121409-10-19 11:29 G	46065077.77	46065077.98	46065078.19	0.0088	0.0025

Mercury	121410-02-15 15:48 G	46065197.12	46065197.16	46065197.23	0.0088	0.0082
Jupiter	121410-05-14 11:14 G	46065284.56	46065284.97	46065285.47	0.0088	0.0043
Mercury	121410-05-14 17:43 G	46065285.17	46065285.24	46065285.33	0.0088	0.0075 *
Venus	121410-06-01 23:29 G	46065303.29	46065303.48	46065303.69	0.0088	0.0034
Mercury	121410-08-10 19:38 G	46065373.23	46065373.32	46065373.42	0.0088	0.0067
Earth	121410-10-18 04:31 G	46065441.47	46065441.69	46065441.93	0.0088	0.0037
Moon	121410-10-18 07:53 G	46065441.60	46065441.83	46065442.06	0.0088	0.0041 *
Mercury	121410-11-06 21:19 G	46065461.29	46065461.39	46065461.51	0.0088	0.0060
Venus	121411-01-13 11:57 G	46065528.82	46065529.00	46065529.20	0.0088	0.0044
Mercury	121411-02-02 23:00 G	46065549.36	46065549.46	46065549.59	0.0088	0.0054
Mercury	121411-05-02 00:55 G	46065637.42	46065637.54	46065637.67	0.0088	0.0046
Mercury	121411-07-29 02:50 G	46065725.49	46065725.62	46065725.76	0.0088	0.0039
Venus	121411-08-27 00:41 G	46065754.36	46065754.53	46065754.70	0.0088	0.0053
Moon	121411-10-20 12:55 G	46065808.88	46065809.04	46065809.26	0.0088	0.0057
Earth	121411-10-20 15:05 G	46065808.96	46065809.13	46065809.34	0.0088	0.0060 *
Mercury	121411-10-25 04:31 G	46065813.56	46065813.69	46065813.83	0.0088	0.0032
Mercury	121412-01-21 06:26 G	46065901.63	46065901.77	46065901.91	0.0088	0.0024
Venus	121412-04-08 12:26 G	46065979.89	46065980.02	46065980.20	0.0088	0.0063
Mercury	121412-04-18 08:07 G	46065989.70	46065989.84	46065989.99	0.0088	0.0017
Mercury	121412-07-15 10:02 G	46066077.77	46066077.92	46066078.06	0.0088	0.0011
Mercury	121412-10-11 11:43 G	46066165.84	46066165.99	46066166.14	0.0088	0.0003
Earth	121412-10-22 01:24 G	46066176.50	46066176.56	46066176.69	0.0088	0.0083
Moon	121412-10-22 02:36 G	46066176.59	46066176.61	46066176.70	0.0088	0.0087 *
Venus	121412-11-20 00:55 G	46066205.43	46066205.54	46066205.69	0.0088	0.0072
Mercury	121413-01-07 13:24 G	46066253.92	46066254.06	46066254.21	0.0088	0.0004
Mercury	121413-04-05 15:05 G	46066341.99	46066342.13	46066342.28	0.0088	0.0011
Mercury	121413-07-02 16:45 G	46066430.06	46066430.20	46066430.35	0.0088	0.0018
Venus	121413-07-03 13:24 G	46066430.99	46066431.06	46066431.16	0.0088	0.0081
Mercury	121413-09-28 18:26 G	46066518.13	46066518.27	46066518.41	0.0088	0.0025
Mercury	121413-12-25 20:07 G	46066606.21	46066606.34	46066606.48	0.0088	0.0032

Mercury	121414-03-23 21:48 G	46066694.28	46066694.41	46066694.55	0.0088	0.0038
Mercury	121414-06-19 23:29 G	46066782.36	46066782.48	46066782.61	0.0088	0.0045
Mercury	121414-09-16 00:55 G	46066870.44	46066870.54	46066870.67	0.0088	0.0053
Mercury	121414-12-13 02:36 G	46066958.52	46066958.61	46066958.73	0.0088	0.0059
Mercury	121415-03-11 04:31 G	46067046.60	46067046.69	46067046.79	0.0088	0.0066
Mercury	121415-06-07 05:57 G	46067134.68	46067134.75	46067134.84	0.0088	0.0073
Mercury	121415-09-03 07:24 G	46067222.77	46067222.81	46067222.89	0.0088	0.0080
Mercury	121415-11-30 09:05 G	46067310.87	46067310.88	46067310.93	0.0088	0.0086
Mars	121437-08-20 21:19 G	46075245.19	46075245.39	46075245.61	0.0088	0.0062
Mars	121439-07-15 17:43 G	46075939.02	46075939.24	46075939.52	0.0088	0.0048
Venus	121486-05-16 22:31 G	46093046.37	46093046.44	46093046.54	0.0089	0.0082
Venus	121486-12-28 12:41 G	46093271.91	46093272.03	46093272.16	0.0089	0.0072
Venus	121487-08-11 02:07 G	46093497.45	46093497.59	46093497.77	0.0089	0.0063
Venus	121488-03-23 16:02 G	46093723.01	46093723.17	46093723.37	0.0089	0.0053
Venus	121488-11-04 05:57 G	46093948.56	46093948.75	46093948.95	0.0089	0.0043
Earth	121489-04-11 15:19 G	46094107.04	46094107.14	46094107.30	0.0089	0.0078
Moon	121489-04-11 16:02 G	46094107.10	46094107.17	46094107.30	0.0089	0.0082 *
Venus	121489-06-17 19:53 G	46094174.13	46094174.33	46094174.54	0.0089	0.0033
Venus	121490-01-29 09:33 G	46094399.70	46094399.90	46094400.13	0.0089	0.0024
Moon	121490-04-14 02:07 G	46094474.39	46094474.59	46094474.83	0.0089	0.0051
Earth	121490-04-14 04:31 G	46094474.49	46094474.69	46094474.90	0.0089	0.0054 *
Venus	121490-09-11 23:29 G	46094625.26	46094625.48	46094625.71	0.0089	0.0014
Earth	121491-04-16 17:00 G	46094841.98	46094842.21	46094842.47	0.0089	0.0031
Moon	121491-04-16 19:38 G	46094842.10	46094842.32	46094842.57	0.0089	0.0035 *
Venus	121491-04-25 13:09 G	46094850.83	46094851.05	46094851.28	0.0089	0.0004
Venus	121491-12-07 02:50 G	46095076.40	46095076.62	46095076.85	0.0089	0.0006
Moon	121492-04-18 02:21 G	46095209.34	46095209.60	46095209.87	0.0089	0.0003
Earth	121492-04-18 06:12 G	46095209.50	46095209.76	46095210.02	0.0089	0.0007 *
Venus	121492-07-19 16:31 G	46095301.98	46095302.19	46095302.42	0.0089	0.0016
Venus	121493-03-02 06:26 G	46095527.56	46095527.77	46095527.98	0.0089	0.0025

Earth	121493-04-20 18:41 G	46095577.02	46095577.28	46095577.53	0.0089	0.0016
Moon	121493-04-20 21:48 G	46095577.17	46095577.41	46095577.68	0.0089	0.0013 *
Venus	121493-10-13 19:53 G	46095753.13	46095753.33	46095753.54	0.0089	0.0035
Mercury	121493-10-16 15:48 G	46095756.15	46095756.16	46095756.18	0.0089	0.0088
Mercury	121494-01-12 18:12 G	46095844.20	46095844.26	46095844.34	0.0089	0.0080
Mercury	121494-04-10 20:50 G	46095932.28	46095932.37	46095932.47	0.0089	0.0072
Moon	121494-04-23 03:48 G	46095944.45	46095944.66	46095944.89	0.0089	0.0044
Earth	121494-04-23 06:55 G	46095944.58	46095944.79	46095945.04	0.0089	0.0040 *
Venus	121494-05-27 09:19 G	46095978.71	46095978.89	46095979.10	0.0089	0.0045
Mercury	121494-07-07 23:14 G	46096020.37	46096020.47	46096020.60	0.0089	0.0064
Mercury	121494-10-04 01:53 G	46096108.46	46096108.58	46096108.73	0.0089	0.0056
Mercury	121494-12-31 04:31 G	46096196.56	46096196.69	46096196.85	0.0089	0.0048
Venus	121495-01-07 23:00 G	46096204.30	46096204.46	46096204.65	0.0089	0.0055
Mercury	121495-03-29 07:24 G	46096284.66	46096284.81	46096284.97	0.0089	0.0039
Earth	121495-04-25 19:24 G	46096312.15	46096312.31	46096312.51	0.0089	0.0063
Moon	121495-04-25 21:48 G	46096312.23	46096312.41	46096312.63	0.0089	0.0059 *
Mercury	121495-06-25 10:02 G	46096372.76	46096372.92	46096373.08	0.0089	0.0031
Venus	121495-08-21 12:41 G	46096429.89	46096430.03	46096430.20	0.0089	0.0065
Mercury	121495-09-21 12:41 G	46096460.87	46096461.03	46096461.20	0.0089	0.0023
Mercury	121495-12-18 15:33 G	46096548.98	46096549.15	46096549.31	0.0089	0.0015
Mercury	121496-03-15 18:12 G	46096637.09	46096637.26	46096637.43	0.0089	0.0006
Venus	121496-04-03 02:07 G	46096655.49	46096655.59	46096655.74	0.0089	0.0075
Earth	121496-04-27 08:21 G	46096679.79	46096679.85	46096679.91	0.0089	0.0086
Mercury	121496-06-11 20:50 G	46096725.20	46096725.37	46096725.54	0.0089	0.0002
Mercury	121496-09-07 23:29 G	46096813.31	46096813.48	46096813.65	0.0089	0.0011
Venus	121496-11-14 16:17 G	46096881.11	46096881.18	46096881.25	0.0089	0.0084
Mercury	121496-12-05 02:21 G	46096901.43	46096901.60	46096901.77	0.0089	0.0019
Mercury	121497-03-03 05:00 G	46096989.55	46096989.71	46096989.88	0.0089	0.0028
Mercury	121497-05-30 07:53 G	46097077.67	46097077.83	46097077.98	0.0089	0.0037
Mercury	121497-08-26 10:17 G	46097165.79	46097165.93	46097166.09	0.0089	0.0046

Mercury	121497-11-22 12:55 G	46097253.92	46097254.04	46097254.20	0.0089	0.0055
Mercury	121498-02-18 16:02 G	46097342.05	46097342.17	46097342.30	0.0089	0.0063
Mercury	121498-05-17 18:41 G	46097430.19	46097430.28	46097430.40	0.0089	0.0071
Mercury	121498-08-13 21:19 G	46097518.34	46097518.39	46097518.48	0.0089	0.0081
Mercury	121498-11-10 00:12 G	46097606.51	46097606.51	46097606.54	0.0089	0.0089
Mars	121521-06-18 11:00 G	46105861.64	46105861.96	46105862.29	0.0090	0.0019
Venus	121566-08-25 19:09 G	46122366.29	46122366.30	46122366.34	0.0089	0.0088
Venus	121567-04-08 07:24 G	46122591.73	46122591.81	46122591.92	0.0089	0.0079
Venus	121567-11-19 19:24 G	46122817.20	46122817.31	46122817.46	0.0089	0.0070
Venus	121568-07-02 07:38 G	46123042.69	46123042.82	46123043.00	0.0089	0.0061
Venus	121569-02-12 19:53 G	46123268.18	46123268.33	46123268.53	0.0089	0.0052
Venus	121569-09-26 08:21 G	46123493.67	46123493.85	46123494.05	0.0089	0.0042
Moon	121569-10-07 07:53 G	46123504.80	46123504.83	46123504.92	0.0089	0.0086
Earth	121569-10-07 08:36 G	46123504.84	46123504.86	46123504.94	0.0089	0.0087 *
Venus	121570-05-09 20:36 G	46123719.17	46123719.36	46123719.57	0.0089	0.0033
Moon	121570-10-09 18:55 G	46123872.13	46123872.29	46123872.49	0.0089	0.0066
Earth	121570-10-09 19:38 G	46123872.15	46123872.32	46123872.50	0.0089	0.0064 *
Venus	121570-12-21 08:50 G	46123944.67	46123944.87	46123945.08	0.0089	0.0023
Venus	121571-08-03 21:19 G	46124170.18	46124170.39	46124170.61	0.0089	0.0014
Earth	121571-10-12 05:29 G	46124239.53	46124239.73	46124239.98	0.0088	0.0042
Moon	121571-10-12 07:53 G	46124239.62	46124239.83	46124240.06	0.0088	0.0041 *
Venus	121572-03-16 09:33 G	46124395.68	46124395.90	46124396.12	0.0088	0.0005
Moon	121572-10-13 13:24 G	46124606.82	46124607.06	46124607.33	0.0088	0.0020
Earth	121572-10-13 16:31 G	46124606.94	46124607.19	46124607.44	0.0088	0.0019 *
Venus	121572-10-27 21:48 G	46124621.19	46124621.41	46124621.63	0.0088	0.0005
Venus	121573-06-10 09:48 G	46124846.71	46124846.91	46124847.13	0.0088	0.0015
Earth	121573-10-16 03:05 G	46124974.38	46124974.63	46124974.89	0.0088	0.0004
Moon	121573-10-16 06:26 G	46124974.52	46124974.77	46124975.03	0.0088	0.0006 *
Venus	121574-01-21 22:17 G	46125072.22	46125072.43	46125072.64	0.0088	0.0023
Mercury	121574-08-17 13:38 G	46125280.04	46125280.07	46125280.10	0.0088	0.0086

Venus	121574-09-04 10:45 G	46125297.75	46125297.95	46125298.15	0.0088	0.0033
Moon	121574-10-18 10:02 G	46125341.68	46125341.92	46125342.17	0.0088	0.0027
Earth	121574-10-18 13:24 G	46125341.83	46125342.06	46125342.32	0.0088	0.0028 *
Mercury	121574-11-13 15:19 G	46125368.08	46125368.14	46125368.21	0.0088	0.0079
Mercury	121575-02-09 17:00 G	46125456.13	46125456.21	46125456.31	0.0088	0.0071
Venus	121575-04-17 22:45 G	46125523.27	46125523.45	46125523.65	0.0088	0.0042
Mercury	121575-05-08 18:41 G	46125544.20	46125544.28	46125544.40	0.0088	0.0065
Mercury	121575-08-04 20:50 G	46125632.26	46125632.37	46125632.48	0.0088	0.0057
Earth	121575-10-21 00:12 G	46125709.31	46125709.51	46125709.73	0.0088	0.0050
Moon	121575-10-21 02:50 G	46125709.43	46125709.62	46125709.85	0.0088	0.0051 *
Mercury	121575-10-31 22:31 G	46125720.33	46125720.44	46125720.57	0.0088	0.0050
Venus	121575-11-29 11:14 G	46125748.80	46125748.97	46125749.15	0.0088	0.0051
Mercury	121576-01-28 00:26 G	46125808.39	46125808.52	46125808.65	0.0088	0.0042
Mercury	121576-04-25 02:07 G	46125896.46	46125896.59	46125896.73	0.0088	0.0035
Jupiter	121576-07-09 14:50 G	46125971.62	46125972.12	46125972.64	0.0088	0.0012
Venus	121576-07-11 23:43 G	46125974.34	46125974.49	46125974.65	0.0088	0.0061
Mercury	121576-07-22 03:48 G	46125984.53	46125984.66	46125984.81	0.0088	0.0029
Mercury	121576-10-18 05:43 G	46126072.60	46126072.74	46126072.89	0.0088	0.0021
Moon	121576-10-22 08:21 G	46126076.73	46126076.85	46126077.02	0.0088	0.0072
Earth	121576-10-22 10:45 G	46126076.83	46126076.95	46126077.12	0.0088	0.0073 *
Mercury	121577-01-14 07:24 G	46126160.67	46126160.81	46126160.96	0.0088	0.0015
Venus	121577-02-22 11:43 G	46126199.88	46126199.99	46126200.14	0.0088	0.0071
Mercury	121577-04-12 09:19 G	46126248.74	46126248.89	46126249.04	0.0088	0.0007
Mercury	121577-07-09 11:00 G	46126336.82	46126336.96	46126337.11	0.0088	0.0002
Mercury	121577-10-05 12:41 G	46126424.89	46126425.03	46126425.18	0.0088	0.0008
Venus	121577-10-06 00:12 G	46126425.44	46126425.51	46126425.62	0.0088	0.0080
Mercury	121578-01-01 14:36 G	46126512.96	46126513.11	46126513.25	0.0088	0.0014
Mercury	121578-03-30 16:17 G	46126601.04	46126601.18	46126601.32	0.0088	0.0021
Mercury	121578-06-26 17:43 G	46126689.11	46126689.24	46126689.39	0.0088	0.0029
Mercury	121578-09-22 19:24 G	46126777.19	46126777.31	46126777.45	0.0088	0.0035



Mercury	121578-12-19 21:05 G	46126865.26	46126865.38	46126865.52	0.0088	0.0042
Mercury	121579-03-17 23:00 G	46126953.34	46126953.46	46126953.58	0.0088	0.0049
Mercury	121579-06-14 00:41 G	46127041.42	46127041.53	46127041.64	0.0088	0.0055
Mercury	121579-09-10 02:07 G	46127129.50	46127129.59	46127129.70	0.0088	0.0063
Mercury	121579-12-07 03:48 G	46127217.58	46127217.66	46127217.76	0.0088	0.0069
Mercury	121580-03-04 05:14 G	46127305.67	46127305.72	46127305.81	0.0088	0.0076
Mercury	121580-05-31 07:09 G	46127393.76	46127393.80	46127393.85	0.0088	0.0083
Mars	121603-03-01 01:09 G	46135702.25	46135702.55	46135702.85	0.0088	0.0003
Venus	121650-08-19 07:09 G	46153040.75	46153040.80	46153040.90	0.0089	0.0084
Venus	121651-04-01 21:05 G	46153266.28	46153266.38	46153266.52	0.0089	0.0074
Venus	121651-11-13 11:14 G	46153491.82	46153491.97	46153492.13	0.0089	0.0064
Venus	121652-06-26 00:41 G	46153717.37	46153717.53	46153717.73	0.0089	0.0055
Venus	121653-02-06 14:50 G	46153942.94	46153943.12	46153943.33	0.0089	0.0045
Earth	121653-04-11 22:17 G	46154007.42	46154007.43	46154007.49	0.0089	0.0088
Moon	121653-04-11 22:45 G	46154007.43	46154007.45	46154007.53	0.0089	0.0087 *
Venus	121653-09-20 04:45 G	46154168.50	46154168.70	46154168.91	0.0089	0.0035
Earth	121654-04-14 11:14 G	46154374.82	46154374.97	46154375.17	0.0089	0.0065
Moon	121654-04-14 12:26 G	46154374.86	46154375.02	46154375.20	0.0089	0.0065 *
Venus	121654-05-03 18:41 G	46154394.07	46154394.28	46154394.50	0.0089	0.0025
Venus	121654-12-15 08:21 G	46154619.64	46154619.85	46154620.08	0.0089	0.0016
Moon	121655-04-16 22:45 G	46154742.22	46154742.45	46154742.70	0.0089	0.0040
Earth	121655-04-17 00:41 G	46154742.30	46154742.53	46154742.76	0.0089	0.0041 *
Venus	121655-07-28 22:17 G	46154845.21	46154845.43	46154845.66	0.0089	0.0006
Venus	121656-03-10 12:12 G	46155070.79	46155071.01	46155071.23	0.0089	0.0004
Earth	121656-04-18 13:09 G	46155109.81	46155110.05	46155110.32	0.0089	0.0018
Moon	121656-04-18 16:17 G	46155109.94	46155110.18	46155110.44	0.0089	0.0019 *
Venus	121656-10-22 01:53 G	46155296.36	46155296.58	46155296.80	0.0089	0.0014
Moon	121657-04-20 22:45 G	46155477.19	46155477.45	46155477.71	0.0089	0.0006
Earth	121657-04-21 02:07 G	46155477.34	46155477.59	46155477.86	0.0089	0.0006 *
Venus	121657-06-04 15:19 G	46155521.94	46155522.14	46155522.37	0.0089	0.0024

Venus	121658-01-16 05:00 G	46155747.52	46155747.71	46155747.93	0.0089	0.0034
Earth	121658-04-23 14:50 G	46155844.87	46155845.12	46155845.36	0.0089	0.0029
Moon	121658-04-23 17:57 G	46155845.02	46155845.25	46155845.52	0.0089	0.0028 *
Mercury	121658-07-14 14:36 G	46155927.06	46155927.11	46155927.16	0.0089	0.0084
Venus	121658-08-29 18:41 G	46155973.10	46155973.28	46155973.49	0.0089	0.0044
Mercury	121658-10-10 17:00 G	46156015.14	46156015.21	46156015.30	0.0089	0.0076
Mercury	121659-01-06 19:38 G	46156103.22	46156103.32	46156103.43	0.0089	0.0068
Mercury	121659-04-04 22:17 G	46156191.31	46156191.43	46156191.56	0.0089	0.0060
Venus	121659-04-12 08:36 G	46156198.69	46156198.86	46156199.04	0.0089	0.0053
Moon	121659-04-25 23:43 G	46156212.31	46156212.49	46156212.72	0.0089	0.0054
Earth	121659-04-26 03:05 G	46156212.44	46156212.63	46156212.86	0.0089	0.0053 *
Mercury	121659-07-02 00:41 G	46156279.41	46156279.53	46156279.68	0.0089	0.0052
Mercury	121659-09-28 03:19 G	46156367.50	46156367.64	46156367.80	0.0089	0.0044
Venus	121659-11-23 21:48 G	46156424.28	46156424.41	46156424.59	0.0089	0.0064
Mercury	121659-12-25 06:12 G	46156455.61	46156455.76	46156455.92	0.0089	0.0036
Mercury	121660-03-22 08:50 G	46156543.71	46156543.87	46156544.03	0.0089	0.0027
Earth	121660-04-27 15:33 G	46156580.04	46156580.15	46156580.30	0.0089	0.0076
Moon	121660-04-27 17:43 G	46156580.12	46156580.24	46156580.40	0.0089	0.0075 *
Mercury	121660-06-18 11:29 G	46156631.82	46156631.98	46156632.15	0.0089	0.0019
Venus	121660-07-06 11:57 G	46156649.87	46156650.00	46156650.13	0.0089	0.0073
Mercury	121660-09-14 14:07 G	46156719.92	46156720.09	46156720.26	0.0089	0.0011
Mercury	121660-12-11 16:45 G	46156808.03	46156808.20	46156808.38	0.0089	0.0003
Venus	121661-02-17 01:24 G	46156875.49	46156875.56	46156875.66	0.0089	0.0082
Mercury	121661-03-09 19:38 G	46156896.15	46156896.32	46156896.49	0.0089	0.0006
Mercury	121661-06-05 22:17 G	46156984.26	46156984.43	46156984.60	0.0089	0.0015
Mercury	121661-09-02 00:55 G	46157072.38	46157072.54	46157072.71	0.0089	0.0023
Mercury	121661-11-29 03:33 G	46157160.50	46157160.65	46157160.82	0.0089	0.0032
Mercury	121662-02-25 06:26 G	46157248.62	46157248.77	46157248.93	0.0089	0.0040
Mercury	121662-05-24 09:05 G	46157336.74	46157336.88	46157337.03	0.0089	0.0049
Mercury	121662-08-20 11:57 G	46157424.87	46157425.00	46157425.13	0.0089	0.0058

Mercury	121662-11-16 14:36 G	46157513.00	46157513.11	46157513.23	0.0089	0.0066
Mercury	121663-02-12 17:14 G	46157601.14	46157601.22	46157601.33	0.0089	0.0075
Mercury	121663-05-11 20:21 G	46157689.29	46157689.35	46157689.41	0.0089	0.0084
Mars	121685-01-30 04:02 G	46165623.39	46165623.67	46165624.00	0.0090	0.0037
Venus	121731-07-11 18:41 G	46182586.20	46182586.28	46182586.38	0.0089	0.0080
Venus	121732-02-22 06:55 G	46182811.67	46182811.79	46182811.93	0.0089	0.0071
Venus	121732-10-04 18:55 G	46183037.15	46183037.29	46183037.46	0.0089	0.0062
Venus	121733-05-18 07:09 G	46183262.64	46183262.80	46183262.99	0.0089	0.0053
Venus	121733-12-29 19:38 G	46183488.13	46183488.32	46183488.51	0.0089	0.0043
Venus	121734-08-12 07:53 G	46183713.64	46183713.83	46183714.04	0.0089	0.0034
Earth	121734-10-10 04:31 G	46183772.58	46183772.69	46183772.86	0.0089	0.0074
Moon	121734-10-10 05:29 G	46183772.61	46183772.73	46183772.85	0.0089	0.0077 *
Venus	121735-03-25 20:07 G	46183939.14	46183939.34	46183939.55	0.0089	0.0025
Moon	121735-10-12 13:09 G	46184139.84	46184140.05	46184140.28	0.0089	0.0047
Earth	121735-10-12 15:33 G	46184139.95	46184140.15	46184140.36	0.0089	0.0051 *
Venus	121735-11-06 08:21 G	46184164.64	46184164.85	46184165.07	0.0089	0.0015
Venus	121736-06-18 20:36 G	46184390.15	46184390.36	46184390.58	0.0089	0.0006
Earth	121736-10-14 01:38 G	46184507.35	46184507.57	46184507.83	0.0088	0.0029
Moon	121736-10-14 04:31 G	46184507.48	46184507.69	46184507.94	0.0088	0.0033 *
Venus	121737-01-30 08:50 G	46184615.66	46184615.87	46184616.09	0.0088	0.0004
Venus	121737-09-12 21:05 G	46184841.17	46184841.38	46184841.60	0.0088	0.0013
Moon	121737-10-16 09:05 G	46184874.63	46184874.88	46184875.14	0.0088	0.0002
Earth	121737-10-16 12:41 G	46184874.77	46184875.03	46184875.28	0.0088	0.0006 *
Venus	121738-04-26 09:19 G	46185066.69	46185066.89	46185067.11	0.0088	0.0022
Earth	121738-10-18 22:45 G	46185242.21	46185242.45	46185242.71	0.0088	0.0018
Moon	121738-10-19 02:21 G	46185242.36	46185242.60	46185242.87	0.0088	0.0014 *
Venus	121738-12-07 21:33 G	46185292.20	46185292.40	46185292.61	0.0088	0.0032
Mercury	121739-05-15 12:41 G	46185450.99	46185451.03	46185451.09	0.0088	0.0082
Venus	121739-07-21 09:33 G	46185517.73	46185517.90	46185518.11	0.0088	0.0042
Mercury	121739-08-11 14:21 G	46185539.04	46185539.10	46185539.19	0.0088	0.0076

Moon	121739-10-21 06:26 G	46185609.57	46185609.77	46185610.01	0.0088	0.0044
Earth	121739-10-21 09:05 G	46185609.67	46185609.88	46185610.13	0.0088	0.0041 *
Mercury	121739-11-07 16:31 G	46185627.10	46185627.19	46185627.29	0.0088	0.0068
Mercury	121740-02-03 18:12 G	46185715.16	46185715.26	46185715.38	0.0088	0.0061
Venus	121740-03-02 22:02 G	46185743.26	46185743.42	46185743.61	0.0088	0.0050
Mercury	121740-05-01 20:07 G	46185803.23	46185803.34	46185803.46	0.0088	0.0053
Mercury	121740-07-28 21:48 G	46185891.29	46185891.41	46185891.55	0.0088	0.0046
Venus	121740-10-14 10:17 G	46185968.79	46185968.93	46185969.11	0.0088	0.0060
Earth	121740-10-22 20:07 G	46185977.17	46185977.34	46185977.52	0.0088	0.0063
Moon	121740-10-22 21:48 G	46185977.24	46185977.41	46185977.63	0.0088	0.0060 *
Mercury	121740-10-24 23:43 G	46185979.36	46185979.49	46185979.63	0.0088	0.0039
Mercury	121741-01-21 01:24 G	46186067.43	46186067.56	46186067.71	0.0088	0.0032
Mercury	121741-04-19 03:19 G	46186155.50	46186155.64	46186155.78	0.0088	0.0025
Venus	121741-05-27 22:45 G	46186194.32	46186194.45	46186194.59	0.0088	0.0069
Mercury	121741-07-16 05:14 G	46186243.57	46186243.72	46186243.86	0.0088	0.0018
Mercury	121741-10-12 06:55 G	46186331.64	46186331.79	46186331.94	0.0088	0.0011
Earth	121741-10-25 06:26 G	46186344.73	46186344.77	46186344.86	0.0088	0.0086
Mercury	121742-01-08 08:36 G	46186419.72	46186419.86	46186420.01	0.0088	0.0004
Venus	121742-01-08 10:45 G	46186419.87	46186419.95	46186420.07	0.0088	0.0078 *
Mercury	121742-04-06 10:17 G	46186507.79	46186507.93	46186508.08	0.0088	0.0005
Mercury	121742-07-03 12:12 G	46186595.86	46186596.01	46186596.15	0.0088	0.0011
Venus	121742-08-21 23:14 G	46186645.47	46186645.47	46186645.53	0.0088	0.0088
Jupiter	121742-09-06 02:07 G	46186660.10	46186660.59	46186661.11	0.0088	0.0023
Mercury	121742-09-29 13:53 G	46186683.94	46186684.08	46186684.22	0.0088	0.0018
Mercury	121742-12-26 15:33 G	46186772.01	46186772.15	46186772.29	0.0088	0.0024
Mercury	121743-03-24 17:14 G	46186860.09	46186860.22	46186860.36	0.0088	0.0031
Mercury	121743-06-20 18:55 G	46186948.16	46186948.29	46186948.42	0.0088	0.0038
Mercury	121743-09-16 20:36 G	46187036.24	46187036.36	46187036.49	0.0088	0.0045
Mercury	121743-12-13 22:17 G	46187124.32	46187124.43	46187124.55	0.0088	0.0052
Mercury	121744-03-10 23:43 G	46187212.40	46187212.49	46187212.61	0.0088	0.0059

Mercury	121744-06-07 01:38 G	46187300.48	46187300.57	46187300.67	0.0088	0.0066
Mercury	121744-09-03 03:19 G	46187388.56	46187388.64	46187388.72	0.0088	0.0072
Mercury	121744-11-30 04:45 G	46187476.65	46187476.70	46187476.77	0.0088	0.0079
Mercury	121745-02-26 06:26 G	46187564.75	46187564.77	46187564.81	0.0088	0.0086
Mars	121766-10-15 08:21 G	46195465.60	46195465.85	46195466.12	0.0088	0.0042
Mars	121768-09-08 04:31 G	46196159.53	46196159.69	46196159.91	0.0088	0.0068
Venus	121814-11-22 15:33 G	46213035.12	46213035.15	46213035.24	0.0089	0.0086
Venus	121815-07-06 05:43 G	46213260.64	46213260.74	46213260.87	0.0089	0.0076
Venus	121816-02-16 19:53 G	46213486.19	46213486.33	46213486.48	0.0089	0.0066
Venus	121816-09-29 09:19 G	46213711.74	46213711.89	46213712.08	0.0089	0.0057
Venus	121817-05-12 23:14 G	46213937.29	46213937.47	46213937.67	0.0089	0.0047
Venus	121817-12-24 13:09 G	46214162.86	46214163.05	46214163.26	0.0089	0.0037
Moon	121818-04-15 14:36 G	46214275.02	46214275.11	46214275.25	0.0089	0.0080
Earth	121818-04-15 17:43 G	46214275.12	46214275.24	46214275.39	0.0089	0.0075 *
Venus	121818-08-07 03:05 G	46214388.42	46214388.63	46214388.85	0.0089	0.0027
Venus	121819-03-20 17:00 G	46214613.99	46214614.21	46214614.43	0.0089	0.0017
Earth	121819-04-18 06:26 G	46214642.58	46214642.77	46214643.00	0.0089	0.0052
Moon	121819-04-18 10:02 G	46214642.71	46214642.92	46214643.14	0.0089	0.0047 *
Venus	121819-11-01 06:41 G	46214839.56	46214839.78	46214840.01	0.0089	0.0008
Moon	121820-04-19 15:33 G	46215009.93	46215010.15	46215010.41	0.0089	0.0034
Earth	121820-04-19 19:53 G	46215010.08	46215010.33	46215010.58	0.0089	0.0028 *
Venus	121820-06-13 20:36 G	46215065.14	46215065.36	46215065.58	0.0089	0.0002
Venus	121821-01-25 10:31 G	46215290.72	46215290.94	46215291.16	0.0089	0.0012
Earth	121821-04-22 08:36 G	46215377.60	46215377.86	46215378.12	0.0089	0.0005
Moon	121821-04-22 11:43 G	46215377.73	46215377.99	46215378.26	0.0089	0.0001 *
Venus	121821-09-08 00:12 G	46215516.30	46215516.51	46215516.73	0.0089	0.0022
Venus	121822-04-21 13:38 G	46215741.88	46215742.07	46215742.29	0.0089	0.0032
Moon	121822-04-24 18:41 G	46215745.04	46215745.28	46215745.54	0.0089	0.0014
Earth	121822-04-24 21:05 G	46215745.14	46215745.38	46215745.65	0.0089	0.0019 *
Venus	121822-12-03 03:19 G	46215967.46	46215967.64	46215967.85	0.0089	0.0042

Mercury	121823-04-12 13:09 G	46216097.99	46216098.05	46216098.12	0.0089	0.0081
Earth	121823-04-27 09:48 G	46216112.69	46216112.91	46216113.15	0.0089	0.0042
Moon	121823-04-27 11:14 G	46216112.77	46216112.97	46216113.22	0.0089	0.0047 *
Mercury	121823-07-09 15:33 G	46216186.07	46216186.15	46216186.25	0.0089	0.0073
Venus	121823-07-16 17:14 G	46216193.04	46216193.22	46216193.41	0.0089	0.0051
Mercury	121823-10-05 18:12 G	46216274.15	46216274.26	46216274.38	0.0089	0.0065
Mercury	121824-01-01 20:36 G	46216362.25	46216362.36	46216362.50	0.0089	0.0057
Venus	121824-02-27 06:55 G	46216418.64	46216418.79	46216418.96	0.0089	0.0061
Mercury	121824-03-29 23:14 G	46216450.34	46216450.47	46216450.62	0.0089	0.0049
Earth	121824-04-28 22:31 G	46216480.27	46216480.44	46216480.62	0.0089	0.0065
Moon	121824-04-28 22:31 G	46216480.27	46216480.44	46216480.63	0.0089	0.0061 *
Mercury	121824-06-26 01:53 G	46216538.44	46216538.58	46216538.74	0.0089	0.0041
Mercury	121824-09-22 04:45 G	46216626.54	46216626.70	46216626.86	0.0089	0.0032
Venus	121824-10-09 20:21 G	46216644.24	46216644.35	46216644.50	0.0089	0.0071
Mercury	121824-12-19 07:24 G	46216714.65	46216714.81	46216714.97	0.0089	0.0024
Mercury	121825-03-17 10:02 G	46216802.75	46216802.92	46216803.09	0.0089	0.0016
Earth	121825-05-01 10:45 G	46216847.95	46216847.95	46216847.99	0.0089	0.0089
Venus	121825-05-23 10:02 G	46216869.84	46216869.92	46216870.03	0.0089	0.0081
Mercury	121825-06-13 12:41 G	46216890.86	46216891.03	46216891.20	0.0089	0.0007
Mercury	121825-09-09 15:19 G	46216978.97	46216979.14	46216979.31	0.0089	0.0002
Mercury	121825-12-06 17:57 G	46217067.08	46217067.25	46217067.42	0.0089	0.0010
Mercury	121826-03-04 20:36 G	46217155.20	46217155.36	46217155.53	0.0089	0.0018
Mercury	121826-05-31 23:29 G	46217243.31	46217243.48	46217243.64	0.0089	0.0026
Mercury	121826-08-28 01:53 G	46217331.43	46217331.58	46217331.75	0.0089	0.0035
Mercury	121826-11-24 04:45 G	46217419.56	46217419.70	46217419.86	0.0089	0.0043
Mercury	121827-02-20 07:24 G	46217507.68	46217507.81	46217507.96	0.0089	0.0052
Mercury	121827-05-19 10:17 G	46217595.81	46217595.93	46217596.06	0.0089	0.0061
Mercury	121827-08-15 12:55 G	46217683.94	46217684.04	46217684.16	0.0089	0.0069
Mercury	121827-11-11 15:33 G	46217772.08	46217772.15	46217772.25	0.0089	0.0078
Mercury	121828-02-07 18:41 G	46217860.24	46217860.28	46217860.32	0.0089	0.0086

Mars	121850-08-11 17:29 G	46226080.96	46226081.23	46226081.56	0.0090	0.0040
Venus	121895-10-14 04:45 G	46242580.64	46242580.70	46242580.80	0.0089	0.0082
Venus	121896-05-26 17:00 G	46242806.11	46242806.21	46242806.35	0.0089	0.0073
Venus	121897-01-07 05:14 G	46243031.59	46243031.72	46243031.89	0.0089	0.0064
Venus	121897-08-20 17:57 G	46243257.08	46243257.25	46243257.42	0.0089	0.0054
Venus	121898-04-03 05:57 G	46243482.58	46243482.75	46243482.95	0.0089	0.0045
Moon	121898-10-10 10:45 G	46243672.86	46243672.95	46243673.06	0.0089	0.0082
Earth	121898-10-10 13:09 G	46243672.99	46243673.05	46243673.16	0.0089	0.0084 *
Venus	121898-11-14 18:12 G	46243708.08	46243708.26	46243708.47	0.0089	0.0036
Venus	121899-06-28 06:41 G	46243933.58	46243933.78	46243933.99	0.0089	0.0026
Earth	121899-10-12 23:57 G	46244040.32	46244040.50	46244040.69	0.0089	0.0061
Moon	121899-10-13 03:19 G	46244040.48	46244040.64	46244040.84	0.0089	0.0063 *
Venus	121900-02-08 18:55 G	46244159.08	46244159.29	46244159.51	0.0089	0.0017
Venus	121900-09-22 07:09 G	46244384.59	46244384.80	46244385.02	0.0089	0.0008
Moon	121900-10-15 07:09 G	46244407.58	46244407.80	46244408.04	0.0089	0.0038
Earth	121900-10-15 10:17 G	46244407.72	46244407.93	46244408.18	0.0089	0.0039 *
Venus	121901-05-05 19:24 G	46244610.10	46244610.31	46244610.53	0.0088	0.0003
Earth	121901-10-17 21:05 G	46244775.13	46244775.38	46244775.64	0.0088	0.0015
Moon	121901-10-17 23:57 G	46244775.26	46244775.50	46244775.77	0.0088	0.0018 *
Venus	121901-12-17 07:38 G	46244835.61	46244835.82	46244836.04	0.0088	0.0012
Venus	121902-07-30 20:07 G	46245061.13	46245061.34	46245061.55	0.0088	0.0021
Moon	121902-10-20 05:29 G	46245142.48	46245142.73	46245142.98	0.0088	0.0009
Earth	121902-10-20 07:24 G	46245142.56	46245142.81	46245143.07	0.0088	0.0008 *
Venus	121903-03-13 08:07 G	46245286.65	46245286.84	46245287.05	0.0088	0.0030
Earth	121903-10-22 17:43 G	46245510.02	46245510.24	46245510.50	0.0088	0.0031
Moon	121903-10-22 18:12 G	46245510.02	46245510.26	46245510.52	0.0088	0.0030 *
Venus	121903-10-24 20:21 G	46245512.17	46245512.35	46245512.55	0.0088	0.0040
Mercury	121903-11-15 10:02 G	46245533.90	46245533.92	46245533.96	0.0088	0.0087
Mercury	121904-02-11 11:43 G	46245621.94	46245621.99	46245622.07	0.0088	0.0080
Mercury	121904-05-09 13:38 G	46245710.00	46245710.07	46245710.17	0.0088	0.0072

Venus	121904-06-06 08:36 G	46245737.69	46245737.86	46245738.05	0.0088	0.0049
Mercury	121904-08-05 15:48 G	46245798.06	46245798.16	46245798.26	0.0088	0.0065
Earth	121904-10-24 04:31 G	46245877.49	46245877.69	46245877.90	0.0088	0.0053
Moon	121904-10-24 05:00 G	46245877.53	46245877.71	46245877.92	0.0088	0.0054 *
Mercury	121904-11-01 17:29 G	46245886.12	46245886.23	46245886.35	0.0088	0.0058
Venus	121905-01-17 20:36 G	46245963.22	46245963.36	46245963.54	0.0088	0.0059
Mercury	121905-01-28 19:09 G	46245974.19	46245974.30	46245974.43	0.0088	0.0051
Mercury	121905-04-26 21:05 G	46246062.26	46246062.38	46246062.52	0.0088	0.0043
Mercury	121905-07-23 22:45 G	46246150.33	46246150.45	46246150.60	0.0088	0.0037
Venus	121905-08-31 09:05 G	46246188.76	46246188.88	46246189.04	0.0088	0.0068
Mercury	121905-10-20 00:41 G	46246238.40	46246238.53	46246238.68	0.0088	0.0029
Moon	121905-10-26 12:41 G	46246244.91	46246245.03	46246245.19	0.0088	0.0074
Earth	121905-10-26 14:36 G	46246245.00	46246245.11	46246245.27	0.0088	0.0076 *
Mercury	121906-01-16 02:36 G	46246326.47	46246326.61	46246326.75	0.0088	0.0022
Venus	121906-04-13 21:33 G	46246414.31	46246414.40	46246414.52	0.0088	0.0077
Mercury	121906-04-14 04:17 G	46246414.54	46246414.68	46246414.83	0.0088	0.0015
Mercury	121906-07-11 06:12 G	46246502.61	46246502.76	46246502.90	0.0088	0.0008
Mercury	121906-10-07 07:53 G	46246590.68	46246590.83	46246590.98	0.0088	0.0001
Venus	121906-11-25 10:02 G	46246639.88	46246639.92	46246639.98	0.0088	0.0086
Mercury	121907-01-03 09:33 G	46246678.76	46246678.90	46246679.05	0.0088	0.0007
Mercury	121907-04-01 11:14 G	46246766.83	46246766.97	46246767.12	0.0088	0.0014
Mercury	121907-06-28 13:09 G	46246854.90	46246855.05	46246855.19	0.0088	0.0021
Mercury	121907-09-24 14:50 G	46246942.98	46246943.12	46246943.26	0.0088	0.0028
Mercury	121907-12-21 16:31 G	46247031.06	46247031.19	46247031.32	0.0088	0.0034
Mercury	121908-03-18 18:12 G	46247119.13	46247119.26	46247119.39	0.0088	0.0041
Mercury	121908-06-14 19:53 G	46247207.21	46247207.33	46247207.45	0.0088	0.0048
Mercury	121908-09-10 21:19 G	46247295.29	46247295.39	46247295.52	0.0088	0.0056
Jupiter	121908-11-05 19:38 G	46247350.96	46247351.32	46247351.75	0.0088	0.0058
Mercury	121908-12-07 23:00 G	46247383.37	46247383.46	46247383.58	0.0088	0.0062
Mercury	121909-03-06 00:41 G	46247471.45	46247471.53	46247471.63	0.0088	0.0069



Mercury	121909-06-02 02:36 G	46247559.54	46247559.61	46247559.69	0.0088	0.0076
Mercury	121909-08-29 04:02 G	46247647.63	46247647.67	46247647.73	0.0088	0.0083
Mars	121930-06-01 15:48 G	46255229.16	46255229.16	46255229.21	0.0088	0.0088
Mars	121932-04-25 09:48 G	46255922.63	46255922.91	46255923.21	0.0088	0.0022
Venus	121979-02-25 00:41 G	46273029.50	46273029.53	46273029.57	0.0089	0.0087
Venus	121979-10-08 14:07 G	46273255.00	46273255.09	46273255.21	0.0089	0.0078
Venus	121980-05-21 04:02 G	46273480.54	46273480.67	46273480.82	0.0089	0.0068
Venus	121981-01-01 18:12 G	46273706.09	46273706.26	46273706.43	0.0089	0.0058
Venus	121981-08-15 07:38 G	46273931.65	46273931.82	46273932.02	0.0089	0.0049
Venus	121982-03-28 21:33 G	46274157.21	46274157.40	46274157.61	0.0089	0.0039
Earth	121982-04-15 23:43 G	46274175.44	46274175.49	46274175.57	0.0089	0.0086
Moon	121982-04-16 03:19 G	46274175.63	46274175.64	46274175.70	0.0089	0.0088
Venus	121982-11-09 11:14 G	46274382.77	46274382.97	46274383.19	0.0089	0.0029
Moon	121983-04-18 09:33 G	46274542.73	46274542.90	46274543.10	0.0089	0.0061
Earth	121983-04-18 12:26 G	46274542.86	46274543.02	46274543.23	0.0089	0.0063 *
Venus	121983-06-23 01:24 G	46274608.34	46274608.56	46274608.77	0.0089	0.0019
Venus	121984-02-03 15:05 G	46274833.91	46274834.13	46274834.36	0.0089	0.0010
Earth	121984-04-20 01:09 G	46274910.34	46274910.55	46274910.81	0.0089	0.0040
Moon	121984-04-20 04:31 G	46274910.46	46274910.69	46274910.93	0.0089	0.0040 *
Venus	121984-09-16 05:00 G	46275059.49	46275059.71	46275059.94	0.0089	0.0001
Moon	121985-04-22 13:09 G	46275277.80	46275278.05	46275278.30	0.0089	0.0014
Earth	121985-04-22 14:36 G	46275277.86	46275278.11	46275278.37	0.0089	0.0016 *
Venus	121985-04-29 18:41 G	46275285.06	46275285.28	46275285.51	0.0089	0.0010
Venus	121985-12-11 08:21 G	46275510.64	46275510.85	46275511.07	0.0089	0.0020
Moon	121986-04-25 03:33 G	46275645.38	46275645.65	46275645.92	0.0089	0.0006
Earth	121986-04-25 03:19 G	46275645.39	46275645.64	46275645.91	0.0089	0.0008 *
Venus	121986-07-24 22:02 G	46275736.22	46275736.42	46275736.64	0.0089	0.0030
Venus	121987-03-07 11:57 G	46275961.81	46275962.00	46275962.21	0.0089	0.0040
Earth	121987-04-27 16:02 G	46276012.94	46276013.17	46276013.42	0.0089	0.0031
Moon	121987-04-27 16:31 G	46276012.98	46276013.19	46276013.45	0.0089	0.0033 *

Mercury	121987-10-12 09:05 G	46276180.85	46276180.88	46276180.92	0.0089	0.0086
Venus	121987-10-19 01:24 G	46276187.40	46276187.56	46276187.77	0.0089	0.0050
Mercury	121988-01-08 11:29 G	46276268.91	46276268.98	46276269.07	0.0089	0.0078
Mercury	121988-04-05 14:07 G	46276356.99	46276357.09	46276357.20	0.0089	0.0070
Moon	121988-04-29 02:07 G	46276380.39	46276380.59	46276380.82	0.0089	0.0052
Earth	121988-04-29 05:00 G	46276380.51	46276380.71	46276380.92	0.0089	0.0054 *
Venus	121988-05-31 15:19 G	46276412.99	46276413.14	46276413.32	0.0089	0.0059
Mercury	121988-07-02 16:31 G	46276445.08	46276445.19	46276445.32	0.0089	0.0062
Mercury	121988-09-28 19:09 G	46276533.18	46276533.30	46276533.44	0.0089	0.0054
Mercury	121988-12-25 21:48 G	46276621.27	46276621.41	46276621.56	0.0089	0.0046
Venus	121989-01-12 05:00 G	46276638.59	46276638.71	46276638.86	0.0089	0.0069
Mercury	121989-03-24 00:26 G	46276709.37	46276709.52	46276709.68	0.0089	0.0038
Earth	121989-05-01 17:00 G	46276748.11	46276748.21	46276748.36	0.0089	0.0078
Moon	121989-05-01 20:07 G	46276748.26	46276748.34	46276748.48	0.0089	0.0080 *
Mercury	121989-06-20 03:05 G	46276797.48	46276797.63	46276797.80	0.0089	0.0029
Venus	121989-08-25 18:26 G	46276864.19	46276864.27	46276864.40	0.0089	0.0079
Mercury	121989-09-16 05:43 G	46276885.58	46276885.74	46276885.91	0.0089	0.0021
Mercury	121989-12-13 08:21 G	46276973.69	46276973.85	46276974.02	0.0089	0.0013
Mercury	121990-03-11 11:00 G	46277061.80	46277061.96	46277062.14	0.0089	0.0005
Venus	121990-04-08 08:21 G	46277089.84	46277089.85	46277089.89	0.0089	0.0088
Mercury	121990-06-07 13:53 G	46277149.91	46277150.08	46277150.25	0.0089	0.0004
Mercury	121990-09-03 16:31 G	46277238.02	46277238.19	46277238.36	0.0089	0.0012
Mercury	121990-11-30 18:55 G	46277326.13	46277326.29	46277326.47	0.0089	0.0021
Mercury	121991-02-26 21:48 G	46277414.25	46277414.41	46277414.58	0.0089	0.0029
Mercury	121991-05-26 00:12 G	46277502.37	46277502.51	46277502.68	0.0089	0.0039
Mercury	121991-08-22 03:05 G	46277590.49	46277590.63	46277590.79	0.0089	0.0046
Mercury	121991-11-18 05:43 G	46277678.62	46277678.74	46277678.89	0.0089	0.0055
Mercury	121992-02-14 08:36 G	46277766.75	46277766.86	46277766.99	0.0089	0.0064
Mercury	121992-05-12 11:14 G	46277854.88	46277854.97	46277855.08	0.0089	0.0072
Mercury	121992-08-08 13:53 G	46277943.02	46277943.08	46277943.17	0.0089	0.0081

# 123RD MILLENNIUM CE

**This is a list of transits visible from Neptune in the 123rd millennium CE.**

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	122014-03-26 08:36	G	46285842.55	46285842.86	46285843.20	0.0090	0.0019	
Venus	122060-01-16 14:50	G	46302575.08	46302575.12	46302575.22	0.0089	0.0084	
Venus	122060-08-29 03:05	G	46302800.54	46302800.63	46302800.77	0.0089	0.0075	
Venus	122061-04-11 15:48	G	46303026.02	46303026.16	46303026.31	0.0089	0.0065	
Venus	122061-11-23 04:02	G	46303251.51	46303251.67	46303251.85	0.0089	0.0056	
Venus	122062-07-06 16:17	G	46303477.01	46303477.18	46303477.38	0.0089	0.0047	
Venus	122063-02-17 04:45	G	46303702.51	46303702.70	46303702.90	0.0089	0.0037	
Venus	122063-09-30 17:00	G	46303928.01	46303928.21	46303928.42	0.0089	0.0028	
Moon	122063-10-13 04:45	G	46303940.58	46303940.70	46303940.84	0.0089	0.0076	
Earth	122063-10-13 08:07	G	46303940.70	46303940.84	46303941.00	0.0089	0.0071	*
Venus	122064-05-13 05:14	G	46304153.51	46304153.72	46304153.94	0.0089	0.0018	
Earth	122064-10-14 18:26	G	46304308.08	46304308.27	46304308.50	0.0089	0.0049	
Moon	122064-10-14 21:05	G	46304308.17	46304308.38	46304308.62	0.0089	0.0044	*
Venus	122064-12-24 17:29	G	46304379.02	46304379.23	46304379.45	0.0089	0.0009	
Venus	122065-08-07 05:57	G	46304604.53	46304604.75	46304604.97	0.0089	0.0001	
Moon	122065-10-17 04:02	G	46304675.44	46304675.67	46304675.90	0.0089	0.0030	
Earth	122065-10-17 05:00	G	46304675.48	46304675.71	46304675.97	0.0089	0.0026	*
Venus	122066-03-20 18:12	G	46304830.05	46304830.26	46304830.48	0.0089	0.0010	

Earth	122066-10-19 15:48 G	46305042.90	46305043.16	46305043.42	0.0088	0.0003
Moon	122066-10-19 16:02 G	46305042.91	46305043.17	46305043.44	0.0088	0.0002 *
Venus	122066-11-01 06:12 G	46305055.56	46305055.76	46305055.98	0.0088	0.0020
Venus	122067-06-14 18:26 G	46305281.07	46305281.27	46305281.48	0.0088	0.0029
Earth	122067-10-22 02:21 G	46305410.35	46305410.60	46305410.85	0.0088	0.0020
Moon	122067-10-22 03:33 G	46305410.42	46305410.65	46305410.91	0.0088	0.0016 *
Venus	122068-01-26 06:55 G	46305506.59	46305506.79	46305506.98	0.0088	0.0038
Mercury	122068-08-11 09:05 G	46305704.85	46305704.88	46305704.94	0.0088	0.0084
Venus	122068-09-07 18:55 G	46305732.12	46305732.29	46305732.49	0.0088	0.0047
Moon	122068-10-23 10:02 G	46305777.70	46305777.92	46305778.15	0.0088	0.0047
Earth	122068-10-23 12:26 G	46305777.81	46305778.02	46305778.26	0.0088	0.0043 *
Mercury	122068-11-07 11:00 G	46305792.90	46305792.96	46305793.04	0.0088	0.0077
Mercury	122069-02-03 12:41 G	46305880.95	46305881.03	46305881.14	0.0088	0.0070
Venus	122069-04-21 07:09 G	46305957.65	46305957.80	46305957.98	0.0088	0.0057
Mercury	122069-05-02 14:50 G	46305969.02	46305969.12	46305969.23	0.0088	0.0062
Mercury	122069-07-29 16:31 G	46306057.08	46306057.19	46306057.31	0.0088	0.0055
Mercury	122069-10-25 18:26 G	46306145.15	46306145.27	46306145.40	0.0088	0.0047
Earth	122069-10-25 22:31 G	46306145.30	46306145.44	46306145.64	0.0088	0.0066 *
Moon	122069-10-26 01:53 G	46306145.42	46306145.58	46306145.79	0.0088	0.0061 *
Venus	122069-12-02 19:24 G	46306183.18	46306183.31	46306183.47	0.0088	0.0066
Mercury	122070-01-21 20:07 G	46306233.22	46306233.34	46306233.48	0.0088	0.0041
Mercury	122070-04-19 22:02 G	46306321.29	46306321.42	46306321.56	0.0088	0.0033
Venus	122070-07-16 07:24 G	46306408.72	46306408.81	46306408.95	0.0088	0.0076
Mercury	122070-07-16 23:43 G	46306409.36	46306409.49	46306409.64	0.0088	0.0026
Mercury	122070-10-13 01:38 G	46306497.43	46306497.57	46306497.72	0.0088	0.0019
Earth	122070-10-28 09:19 G	46306512.88	46306512.89	46306512.95	0.0088	0.0088
Mercury	122071-01-09 03:19 G	46306585.50	46306585.64	46306585.79	0.0088	0.0012
Venus	122071-02-26 19:53 G	46306634.29	46306634.33	46306634.41	0.0088	0.0084
Mercury	122071-04-07 05:14 G	46306673.57	46306673.72	46306673.87	0.0088	0.0005
Mercury	122071-07-04 06:55 G	46306761.65	46306761.79	46306761.94	0.0088	0.0003

Mercury	122071-09-30 08:50 G	46306849.72	46306849.87	46306850.01	0.0088	0.0010
Mercury	122071-12-27 10:31 G	46306937.79	46306937.94	46306938.08	0.0088	0.0016
Mercury	122072-03-24 12:12 G	46307025.87	46307026.01	46307026.15	0.0088	0.0023
Mercury	122072-06-20 13:53 G	46307113.94	46307114.08	46307114.22	0.0088	0.0030
Mercury	122072-09-16 15:33 G	46307202.02	46307202.15	46307202.29	0.0088	0.0037
Mercury	122072-12-13 17:14 G	46307290.10	46307290.22	46307290.35	0.0088	0.0044
Mercury	122073-03-11 18:41 G	46307378.18	46307378.28	46307378.41	0.0088	0.0052
Mercury	122073-06-07 20:21 G	46307466.26	46307466.35	46307466.48	0.0088	0.0059
Mercury	122073-09-03 22:17 G	46307554.34	46307554.43	46307554.53	0.0088	0.0065
Mercury	122073-11-30 23:57 G	46307642.42	46307642.50	46307642.59	0.0088	0.0071
Mercury	122074-02-27 01:38 G	46307730.51	46307730.57	46307730.64	0.0088	0.0078
Mercury	122074-05-26 03:05 G	46307818.61	46307818.63	46307818.68	0.0088	0.0085
Mars	122095-12-09 18:12 G	46315685.99	46315686.26	46315686.56	0.0088	0.0025
Mars	122097-11-02 11:43 G	46316379.96	46316379.99	46316380.09	0.0088	0.0086
Venus	122144-01-10 22:02 G	46333249.34	46333249.42	46333249.54	0.0089	0.0080
Venus	122144-08-23 12:12 G	46333474.88	46333475.01	46333475.15	0.0089	0.0070
Venus	122145-04-06 01:38 G	46333700.42	46333700.57	46333700.75	0.0089	0.0061
Venus	122145-11-17 15:19 G	46333925.98	46333926.14	46333926.34	0.0089	0.0051
Venus	122146-07-01 05:29 G	46334151.53	46334151.73	46334151.93	0.0089	0.0041
Venus	122147-02-11 19:24 G	46334377.10	46334377.31	46334377.52	0.0089	0.0031
Earth	122147-04-18 17:29 G	46334443.11	46334443.23	46334443.40	0.0089	0.0074
Moon	122147-04-18 19:24 G	46334443.21	46334443.31	46334443.46	0.0089	0.0078 *
Venus	122147-09-25 08:50 G	46334602.67	46334602.87	46334603.10	0.0089	0.0022
Moon	122148-04-20 05:29 G	46334810.53	46334810.73	46334810.96	0.0089	0.0047
Earth	122148-04-20 06:26 G	46334810.58	46334810.77	46334811.00	0.0089	0.0051 *
Venus	122148-05-07 22:45 G	46334828.23	46334828.45	46334828.68	0.0089	0.0012
Venus	122148-12-19 12:41 G	46335053.81	46335054.03	46335054.25	0.0089	0.0002
Moon	122149-04-22 18:55 G	46335178.06	46335178.29	46335178.56	0.0089	0.0032
Earth	122149-04-22 19:38 G	46335178.08	46335178.32	46335178.57	0.0089	0.0027 *
Venus	122149-08-02 02:21 G	46335279.38	46335279.60	46335279.83	0.0089	0.0008

Venus	122150-03-15 16:17 G	46335504.96	46335505.18	46335505.40	0.0089	0.0018
Earth	122150-04-25 08:21 G	46335545.60	46335545.85	46335546.12	0.0089	0.0004
Moon	122150-04-25 10:17 G	46335545.68	46335545.93	46335546.19	0.0089	0.0002 *
Venus	122150-10-27 05:43 G	46335730.54	46335730.74	46335730.97	0.0089	0.0028
Moon	122151-04-27 18:41 G	46335913.02	46335913.28	46335913.55	0.0089	0.0016
Earth	122151-04-27 21:05 G	46335913.14	46335913.38	46335913.65	0.0089	0.0020 *
Venus	122151-06-09 19:24 G	46335956.13	46335956.31	46335956.53	0.0089	0.0038
Venus	122152-01-21 09:33 G	46336181.72	46336181.90	46336182.09	0.0089	0.0047
Earth	122152-04-29 09:48 G	46336280.69	46336280.91	46336281.15	0.0089	0.0043
Moon	122152-04-29 13:09 G	46336280.85	46336281.05	46336281.28	0.0089	0.0048 *
Mercury	122152-07-09 07:09 G	46336351.76	46336351.80	46336351.86	0.0089	0.0084
Venus	122152-09-02 23:14 G	46336407.31	46336407.47	46336407.65	0.0089	0.0057
Mercury	122152-10-05 09:33 G	46336439.83	46336439.90	46336440.00	0.0089	0.0076
Mercury	122153-01-01 12:12 G	46336527.92	46336528.01	46336528.13	0.0089	0.0068
Mercury	122153-03-30 14:50 G	46336616.01	46336616.12	46336616.25	0.0089	0.0060
Venus	122153-04-16 12:41 G	46336632.91	46336633.03	46336633.20	0.0089	0.0067
Moon	122153-05-01 18:55 G	46336648.13	46336648.29	46336648.49	0.0089	0.0063
Earth	122153-05-01 22:17 G	46336648.29	46336648.43	46336648.63	0.0089	0.0067 *
Mercury	122153-06-26 17:14 G	46336704.10	46336704.22	46336704.37	0.0089	0.0052
Mercury	122153-09-22 20:07 G	46336792.20	46336792.34	46336792.49	0.0089	0.0043
Venus	122153-11-28 02:50 G	46336858.51	46336858.62	46336858.73	0.0089	0.0076
Mercury	122153-12-19 22:45 G	46336880.30	46336880.45	46336880.61	0.0089	0.0035
Mercury	122154-03-18 01:24 G	46336968.40	46336968.56	46336968.72	0.0089	0.0027
Mercury	122154-06-14 03:48 G	46337056.50	46337056.66	46337056.84	0.0089	0.0019
Venus	122154-07-11 16:17 G	46337084.14	46337084.18	46337084.25	0.0089	0.0086
Mercury	122154-09-10 06:41 G	46337144.61	46337144.78	46337144.95	0.0089	0.0010
Mercury	122154-12-07 09:19 G	46337232.72	46337232.89	46337233.06	0.0089	0.0002
Mercury	122155-03-05 11:57 G	46337320.83	46337321.00	46337321.17	0.0089	0.0006
Mercury	122155-06-01 14:36 G	46337408.94	46337409.11	46337409.28	0.0089	0.0015
Mercury	122155-08-28 17:14 G	46337497.06	46337497.22	46337497.39	0.0089	0.0023

Mercury	122155-11-24 19:53 G	46337585.18	46337585.33	46337585.50	0.0089	0.0032
Mercury	122156-02-20 22:31 G	46337673.30	46337673.44	46337673.60	0.0089	0.0040
Mercury	122156-05-19 01:09 G	46337761.42	46337761.55	46337761.71	0.0089	0.0049
Mercury	122156-08-15 04:02 G	46337849.54	46337849.67	46337849.81	0.0089	0.0057
Mercury	122156-11-11 06:26 G	46337937.67	46337937.77	46337937.90	0.0089	0.0067
Mercury	122157-02-07 09:33 G	46338025.81	46338025.90	46338026.00	0.0089	0.0074
Mercury	122157-05-06 11:57 G	46338113.96	46338114.00	46338114.08	0.0089	0.0084
Mars	122177-11-07 17:43 G	46345604.12	46345604.24	46345604.44	0.0090	0.0079
Mars	122179-10-04 19:09 G	46346300.04	46346300.30	46346300.57	0.0090	0.0055
Venus	122224-04-21 00:41 G	46362569.50	46362569.53	46362569.61	0.0089	0.0086
Venus	122224-12-02 12:55 G	46362794.96	46362795.04	46362795.17	0.0089	0.0077
Venus	122225-07-16 01:38 G	46363020.44	46363020.57	46363020.72	0.0089	0.0067
Venus	122226-02-26 13:38 G	46363245.92	46363246.07	46363246.25	0.0089	0.0058
Venus	122226-10-10 01:53 G	46363471.42	46363471.58	46363471.78	0.0089	0.0049
Venus	122227-05-23 14:21 G	46363696.91	46363697.10	46363697.30	0.0089	0.0039
Earth	122227-10-14 15:05 G	46363841.05	46363841.13	46363841.25	0.0089	0.0082
Moon	122227-10-14 15:33 G	46363841.07	46363841.15	46363841.23	0.0089	0.0084 *
Venus	122228-01-04 02:36 G	46363922.41	46363922.61	46363922.82	0.0089	0.0030
Venus	122228-08-16 15:05 G	46364147.93	46364148.13	46364148.35	0.0089	0.0020
Earth	122228-10-16 02:07 G	46364208.40	46364208.59	46364208.78	0.0089	0.0059
Moon	122228-10-16 03:19 G	46364208.45	46364208.64	46364208.84	0.0089	0.0056 *
Venus	122229-03-30 03:33 G	46364373.43	46364373.65	46364373.86	0.0089	0.0011
Moon	122229-10-18 09:19 G	46364575.68	46364575.89	46364576.14	0.0089	0.0041
Earth	122229-10-18 12:26 G	46364575.80	46364576.02	46364576.27	0.0089	0.0037 *
Venus	122229-11-10 15:48 G	46364598.94	46364599.16	46364599.38	0.0089	0.0001
Venus	122230-06-24 04:02 G	46364824.46	46364824.67	46364824.89	0.0089	0.0008
Earth	122230-10-20 23:14 G	46364943.22	46364943.47	46364943.73	0.0088	0.0014
Moon	122230-10-21 02:21 G	46364943.36	46364943.60	46364943.86	0.0088	0.0011 *
Venus	122231-02-04 16:17 G	46365049.97	46365050.18	46365050.40	0.0088	0.0017
Venus	122231-09-18 04:45 G	46365275.49	46365275.70	46365275.90	0.0088	0.0027

Moon	122231-10-23 06:12 G	46365310.51	46365310.76	46365311.02	0.0088	0.0006
Earth	122231-10-23 09:48 G	46365310.66	46365310.91	46365311.17	0.0088	0.0009 *
Venus	122232-04-30 16:31 G	46365501.01	46365501.19	46365501.40	0.0088	0.0037
Earth	122232-10-24 20:21 G	46365678.11	46365678.35	46365678.59	0.0088	0.0032
Moon	122232-10-24 23:14 G	46365678.24	46365678.47	46365678.72	0.0088	0.0036 *
Venus	122232-12-12 05:00 G	46365726.53	46365726.71	46365726.90	0.0088	0.0046
Mercury	122233-02-11 06:26 G	46365787.77	46365787.77	46365787.78	0.0088	0.0088
Mercury	122233-05-10 07:53 G	46365875.79	46365875.83	46365875.91	0.0088	0.0082
Venus	122233-07-25 17:29 G	46365952.06	46365952.23	46365952.40	0.0088	0.0055
Mercury	122233-08-06 10:02 G	46365963.85	46365963.92	46365964.01	0.0088	0.0074
Moon	122233-10-27 04:31 G	46366045.50	46366045.69	46366045.90	0.0088	0.0051
Earth	122233-10-27 06:41 G	46366045.59	46366045.78	46366045.99	0.0088	0.0055 *
Mercury	122233-11-02 11:43 G	46366051.91	46366051.99	46366052.10	0.0088	0.0067
Mercury	122234-01-29 13:38 G	46366139.97	46366140.07	46366140.19	0.0088	0.0060
Venus	122234-03-08 05:14 G	46366177.60	46366177.72	46366177.89	0.0088	0.0065
Mercury	122234-04-27 15:33 G	46366228.04	46366228.15	46366228.28	0.0088	0.0052
Mercury	122234-07-24 17:29 G	46366316.11	46366316.23	46366316.36	0.0088	0.0045
Venus	122234-10-19 17:43 G	46366403.14	46366403.24	46366403.37	0.0088	0.0074
Mercury	122234-10-20 19:09 G	46366404.17	46366404.30	46366404.44	0.0088	0.0038
Earth	122234-10-29 16:45 G	46366413.11	46366413.20	46366413.36	0.0088	0.0078
Moon	122234-10-29 18:12 G	46366413.17	46366413.26	46366413.39	0.0088	0.0081 *
Mercury	122235-01-16 21:05 G	46366492.24	46366492.38	46366492.52	0.0088	0.0030
Mercury	122235-04-14 22:45 G	46366580.32	46366580.45	46366580.60	0.0088	0.0024
Venus	122235-06-02 05:57 G	46366628.69	46366628.75	46366628.84	0.0088	0.0083
Mercury	122235-07-12 00:41 G	46366668.39	46366668.53	46366668.68	0.0088	0.0016
Mercury	122235-10-08 02:21 G	46366756.46	46366756.60	46366756.75	0.0088	0.0010
Mercury	122236-01-04 04:17 G	46366844.53	46366844.68	46366844.83	0.0088	0.0002
Mercury	122236-04-01 05:57 G	46366932.61	46366932.75	46366932.90	0.0088	0.0005
Mercury	122236-06-28 07:38 G	46367020.68	46367020.82	46367020.97	0.0088	0.0013
Mercury	122236-09-24 09:19 G	46367108.76	46367108.89	46367109.04	0.0088	0.0020



Mercury	122236-12-21 11:00 G	46367196.83	46367196.96	46367197.11	0.0088	0.0027
Mercury	122237-03-19 12:55 G	46367284.91	46367285.04	46367285.18	0.0088	0.0033
Mercury	122237-06-15 14:36 G	46367372.99	46367373.11	46367373.24	0.0088	0.0040
Mercury	122237-09-11 16:02 G	46367461.06	46367461.17	46367461.31	0.0088	0.0048
Mercury	122237-12-08 18:12 G	46367549.14	46367549.26	46367549.37	0.0088	0.0054
Mercury	122238-03-06 19:38 G	46367637.22	46367637.32	46367637.43	0.0088	0.0061
Mercury	122238-06-02 21:19 G	46367725.31	46367725.39	46367725.49	0.0088	0.0067
Mercury	122238-08-29 23:00 G	46367813.39	46367813.46	46367813.55	0.0088	0.0074
Mercury	122238-11-26 00:26 G	46367901.49	46367901.52	46367901.60	0.0088	0.0082
Mercury	122239-02-22 02:36 G	46367989.60	46367989.61	46367989.62	0.0088	0.0087
Mars	122259-07-27 00:55 G	46375449.37	46375449.54	46375449.72	0.0088	0.0070
Mars	122261-06-19 18:41 G	46376143.03	46376143.28	46376143.56	0.0088	0.0039
Venus	122308-04-15 05:57 G	46393243.69	46393243.75	46393243.86	0.0089	0.0082
Venus	122308-11-26 20:07 G	46393469.21	46393469.34	46393469.47	0.0089	0.0072
Venus	122309-07-10 09:33 G	46393694.76	46393694.90	46393695.08	0.0089	0.0063
Venus	122310-02-20 23:29 G	46393920.32	46393920.48	46393920.68	0.0089	0.0053
Venus	122310-10-04 13:24 G	46394145.87	46394146.06	46394146.27	0.0089	0.0043
Earth	122311-04-19 23:00 G	46394343.41	46394343.46	46394343.56	0.0089	0.0085
Venus	122311-05-18 03:05 G	46394371.43	46394371.63	46394371.85	0.0089	0.0033
Venus	122311-12-29 16:45 G	46394597.00	46394597.20	46394597.43	0.0089	0.0024
Moon	122312-04-21 08:36 G	46394710.69	46394710.86	46394711.08	0.0089	0.0059
Earth	122312-04-21 11:57 G	46394710.83	46394711.00	46394711.20	0.0089	0.0062 *
Venus	122312-08-11 06:41 G	46394822.57	46394822.78	46394823.01	0.0089	0.0014
Venus	122313-03-24 20:36 G	46395048.14	46395048.36	46395048.59	0.0089	0.0004
Earth	122313-04-24 00:41 G	46395078.31	46395078.53	46395078.78	0.0089	0.0039
Moon	122313-04-24 03:33 G	46395078.42	46395078.65	46395078.89	0.0089	0.0042 *
Venus	122313-11-05 10:17 G	46395273.71	46395273.93	46395274.16	0.0089	0.0006
Moon	122314-04-26 11:57 G	46395445.76	46395446.00	46395446.26	0.0089	0.0012
Earth	122314-04-26 13:53 G	46395445.82	46395446.08	46395446.34	0.0089	0.0015 *
Venus	122314-06-18 23:57 G	46395499.28	46395499.50	46395499.73	0.0089	0.0016

Venus	122315-01-30 13:38 G	46395724.87	46395725.07	46395725.30	0.0089	0.0026
Moon	122315-04-29 02:07 G	46395813.33	46395813.59	46395813.86	0.0089	0.0006
Earth	122315-04-29 02:21 G	46395813.35	46395813.60	46395813.86	0.0089	0.0008 *
Venus	122315-09-13 03:48 G	46395950.45	46395950.66	46395950.86	0.0089	0.0035
Venus	122316-04-25 17:14 G	46396176.04	46396176.22	46396176.42	0.0089	0.0045
Earth	122316-04-30 14:50 G	46396180.89	46396181.12	46396181.38	0.0089	0.0032
Moon	122316-04-30 16:02 G	46396180.95	46396181.17	46396181.41	0.0089	0.0035 *
Venus	122316-12-07 06:41 G	46396401.62	46396401.78	46396401.97	0.0089	0.0055
Mercury	122317-04-07 05:14 G	46396522.67	46396522.72	46396522.80	0.0089	0.0082
Moon	122317-05-03 01:09 G	46396548.35	46396548.55	46396548.79	0.0089	0.0052
Earth	122317-05-03 03:48 G	46396548.47	46396548.66	46396548.87	0.0089	0.0055 *
Mercury	122317-07-04 07:53 G	46396610.75	46396610.83	46396610.93	0.0089	0.0074
Venus	122317-07-20 20:21 G	46396627.22	46396627.35	46396627.52	0.0089	0.0065
Mercury	122317-09-30 10:17 G	46396698.84	46396698.93	46396699.06	0.0089	0.0066
Mercury	122317-12-27 12:55 G	46396786.93	46396787.04	46396787.18	0.0089	0.0058
Venus	122318-03-03 10:31 G	46396852.83	46396852.94	46396853.07	0.0089	0.0074
Mercury	122318-03-25 15:48 G	46396875.02	46396875.16	46396875.30	0.0089	0.0049
Earth	122318-05-05 16:17 G	46396916.07	46396916.18	46396916.32	0.0089	0.0078
Moon	122318-05-05 19:53 G	46396916.24	46396916.33	46396916.44	0.0089	0.0081 *
Mercury	122318-06-21 18:12 G	46396963.12	46396963.26	46396963.42	0.0089	0.0041
Mercury	122318-09-17 20:50 G	46397051.22	46397051.37	46397051.53	0.0089	0.0033
Venus	122318-10-14 23:57 G	46397078.45	46397078.50	46397078.59	0.0089	0.0084
Mercury	122318-12-14 23:29 G	46397139.32	46397139.48	46397139.65	0.0089	0.0025
Mercury	122319-03-13 02:07 G	46397227.43	46397227.59	46397227.76	0.0089	0.0017
Mercury	122319-06-09 04:45 G	46397315.53	46397315.70	46397315.87	0.0089	0.0008
Mercury	122319-09-05 07:24 G	46397403.64	46397403.81	46397403.98	0.0089	0.0001
Mercury	122319-12-02 10:02 G	46397491.75	46397491.92	46397492.09	0.0089	0.0009
Mercury	122320-02-28 12:41 G	46397579.86	46397580.03	46397580.20	0.0089	0.0017
Mercury	122320-05-26 15:19 G	46397667.98	46397668.14	46397668.31	0.0089	0.0025
Mercury	122320-08-22 17:57 G	46397756.10	46397756.25	46397756.41	0.0089	0.0034

Mercury	122320-11-18 20:36 G	46397844.22	46397844.36	46397844.52	0.0089	0.0042
Mercury	122321-02-14 23:14 G	46397932.34	46397932.47	46397932.62	0.0089	0.0051
Mercury	122321-05-14 02:07 G	46398020.47	46398020.59	46398020.72	0.0089	0.0059
Mercury	122321-08-10 04:31 G	46398108.60	46398108.69	46398108.82	0.0089	0.0068
Mercury	122321-11-06 07:38 G	46398196.73	46398196.82	46398196.91	0.0089	0.0077
Mercury	122322-02-02 10:02 G	46398284.89	46398284.92	46398284.98	0.0089	0.0085
Mars	122343-05-20 04:45 G	46406061.37	46406061.70	46406062.04	0.0090	0.0005
Venus	122388-07-24 10:31 G	46422563.93	46422563.94	46422564.00	0.0089	0.0088
Venus	122389-03-06 23:14 G	46422789.37	46422789.47	46422789.57	0.0089	0.0078
Venus	122389-10-18 11:14 G	46423014.84	46423014.97	46423015.11	0.0089	0.0069
Venus	122390-05-31 23:14 G	46423240.32	46423240.47	46423240.64	0.0089	0.0060
Venus	122391-01-12 11:14 G	46423465.81	46423465.97	46423466.17	0.0089	0.0051
Venus	122391-08-25 23:57 G	46423691.31	46423691.50	46423691.70	0.0089	0.0041
Venus	122392-04-07 12:12 G	46423916.81	46423917.01	46423917.22	0.0089	0.0032
Moon	122392-10-16 06:55 G	46424108.66	46424108.79	46424108.98	0.0089	0.0067
Earth	122392-10-16 08:21 G	46424108.71	46424108.85	46424109.02	0.0089	0.0070 *
Venus	122392-11-19 00:12 G	46424142.31	46424142.51	46424142.73	0.0089	0.0023
Venus	122393-07-02 12:41 G	46424367.82	46424368.03	46424368.25	0.0089	0.0013
Earth	122393-10-18 18:41 G	46424476.09	46424476.28	46424476.52	0.0089	0.0048
Moon	122393-10-18 18:41 G	46424476.09	46424476.28	46424476.52	0.0089	0.0052 *
Venus	122394-02-13 01:09 G	46424593.33	46424593.55	46424593.76	0.0089	0.0004
Venus	122394-09-26 13:24 G	46424818.85	46424819.06	46424819.28	0.0089	0.0006
Earth	122394-10-21 05:43 G	46424843.50	46424843.74	46424843.99	0.0089	0.0025
Moon	122394-10-21 07:53 G	46424843.58	46424843.83	46424844.07	0.0089	0.0020 *
Venus	122395-05-10 01:38 G	46425044.36	46425044.57	46425044.79	0.0089	0.0015
Moon	122395-10-23 13:38 G	46425210.81	46425211.07	46425211.33	0.0089	0.0006
Earth	122395-10-23 16:31 G	46425210.94	46425211.19	46425211.45	0.0089	0.0002 *
Venus	122395-12-21 13:53 G	46425269.88	46425270.08	46425270.29	0.0089	0.0025
Venus	122396-08-03 02:07 G	46425495.40	46425495.59	46425495.80	0.0088	0.0035
Earth	122396-10-25 03:05 G	46425578.38	46425578.63	46425578.87	0.0088	0.0021

Moon	122396-10-25 06:12 G	46425578.52	46425578.76	46425579.01	0.0088	0.0026 *
Venus	122397-03-16 14:21 G	46425720.93	46425721.10	46425721.30	0.0088	0.0044
Moon	122397-10-27 10:02 G	46425945.70	46425945.92	46425946.15	0.0088	0.0039
Earth	122397-10-27 13:24 G	46425945.85	46425946.06	46425946.29	0.0088	0.0044 *
Venus	122397-10-28 02:50 G	46425946.45	46425946.62	46425946.80	0.0088	0.0053
Mercury	122397-11-09 05:00 G	46425958.69	46425958.71	46425958.75	0.0088	0.0087
Mercury	122398-02-05 06:41 G	46426046.73	46426046.78	46426046.86	0.0088	0.0080
Mercury	122398-05-04 08:50 G	46426134.79	46426134.87	46426134.96	0.0088	0.0072
Venus	122398-06-10 14:36 G	46426171.98	46426172.11	46426172.29	0.0088	0.0063
Mercury	122398-07-31 10:45 G	46426222.85	46426222.95	46426223.06	0.0088	0.0064
Mercury	122398-10-27 12:26 G	46426310.92	46426311.02	46426311.14	0.0088	0.0057
Earth	122398-10-29 23:43 G	46426313.34	46426313.49	46426313.68	0.0088	0.0067
Moon	122398-10-30 02:50 G	46426313.48	46426313.62	46426313.79	0.0088	0.0071 *
Venus	122399-01-22 03:05 G	46426397.52	46426397.63	46426397.77	0.0088	0.0072
Mercury	122399-01-23 14:36 G	46426398.99	46426399.11	46426399.23	0.0088	0.0050
Mercury	122399-04-21 16:17 G	46426487.05	46426487.18	46426487.31	0.0088	0.0043
Mercury	122399-07-18 18:12 G	46426575.12	46426575.26	46426575.40	0.0088	0.0035
Venus	122399-09-04 15:33 G	46426623.08	46426623.15	46426623.25	0.0088	0.0081
Mercury	122399-10-14 19:53 G	46426663.19	46426663.33	46426663.48	0.0088	0.0028
Moon	122399-11-01 08:07 G	46426680.79	46426680.84	46426680.93	0.0088	0.0085
Mercury	122400-01-10 21:48 G	46426751.27	46426751.41	46426751.55	0.0088	0.0021
Mercury	122400-04-07 23:29 G	46426839.34	46426839.48	46426839.63	0.0088	0.0014
Mercury	122400-07-05 01:24 G	46426927.41	46426927.56	46426927.71	0.0088	0.0007
Mercury	122400-10-01 03:05 G	46427015.48	46427015.63	46427015.78	0.0088	0.0002
Mercury	122400-12-28 05:00 G	46427103.56	46427103.71	46427103.85	0.0088	0.0008
Mercury	122401-03-26 06:41 G	46427191.63	46427191.78	46427191.92	0.0088	0.0014
Mercury	122401-06-22 08:21 G	46427279.71	46427279.85	46427279.99	0.0088	0.0021
Mercury	122401-09-18 10:02 G	46427367.79	46427367.92	46427368.06	0.0088	0.0028
Mercury	122401-12-15 11:43 G	46427455.86	46427455.99	46427456.13	0.0088	0.0035
Mercury	122402-03-13 13:24 G	46427543.94	46427544.06	46427544.20	0.0088	0.0042

Mercury	122402-06-09 15:05 G	46427632.02	46427632.13	46427632.26	0.0088	0.0049
Mercury	122402-09-05 16:45 G	46427720.10	46427720.20	46427720.32	0.0088	0.0056
Mercury	122402-12-02 18:41 G	46427808.18	46427808.28	46427808.39	0.0088	0.0063
Mercury	122403-02-28 20:21 G	46427896.27	46427896.35	46427896.44	0.0088	0.0069
Mercury	122403-05-27 22:02 G	46427984.35	46427984.42	46427984.50	0.0088	0.0076
Mercury	122403-08-23 23:29 G	46428072.45	46428072.48	46428072.54	0.0088	0.0083
Mars	122425-02-03 00:12 G	46435906.22	46435906.51	46435906.81	0.0088	0.0008
Venus	122472-07-17 13:38 G	46453238.01	46453238.07	46453238.15	0.0088	0.0084
Venus	122473-02-28 03:19 G	46453463.54	46453463.64	46453463.78	0.0088	0.0075
Venus	122473-10-11 17:14 G	46453689.08	46453689.22	46453689.39	0.0089	0.0065
Venus	122474-05-25 07:09 G	46453914.63	46453914.80	46453914.98	0.0089	0.0055
Venus	122475-01-05 20:50 G	46454140.19	46454140.37	46454140.58	0.0089	0.0046
Venus	122475-08-19 10:45 G	46454365.76	46454365.95	46454366.17	0.0089	0.0036
Venus	122476-04-01 00:41 G	46454591.32	46454591.53	46454591.75	0.0089	0.0026
Moon	122476-04-20 13:24 G	46454610.93	46454611.06	46454611.25	0.0089	0.0071
Earth	122476-04-20 17:00 G	46454611.08	46454611.21	46454611.37	0.0089	0.0073 *
Venus	122476-11-12 14:21 G	46454816.89	46454817.10	46454817.33	0.0089	0.0016
Earth	122477-04-23 05:43 G	46454978.54	46454978.74	46454978.97	0.0089	0.0050
Moon	122477-04-23 09:19 G	46454978.70	46454978.89	46454979.12	0.0089	0.0052 *
Venus	122477-06-26 04:17 G	46455042.46	46455042.68	46455042.90	0.0089	0.0006
Venus	122478-02-06 18:12 G	46455268.03	46455268.26	46455268.48	0.0089	0.0004
Moon	122478-04-25 15:19 G	46455345.90	46455346.14	46455346.40	0.0089	0.0025
Earth	122478-04-25 18:26 G	46455346.04	46455346.27	46455346.53	0.0089	0.0027 *
Venus	122478-09-20 07:38 G	46455493.61	46455493.82	46455494.05	0.0089	0.0014
Earth	122479-04-28 07:24 G	46455713.55	46455713.81	46455714.07	0.0089	0.0003
Moon	122479-04-28 10:31 G	46455713.67	46455713.94	46455714.20	0.0089	0.0006 *
Venus	122479-05-03 21:33 G	46455719.18	46455719.40	46455719.62	0.0089	0.0023
Venus	122479-12-15 11:00 G	46455944.76	46455944.96	46455945.18	0.0089	0.0033
Moon	122480-04-29 18:55 G	46456081.05	46456081.29	46456081.54	0.0089	0.0022
Earth	122480-04-29 20:07 G	46456081.09	46456081.34	46456081.60	0.0089	0.0020 *

Venus	122480-07-28 00:41 G	46456170.35	46456170.53	46456170.74	0.0089	0.0043
Venus	122481-03-10 14:21 G	46456395.94	46456396.10	46456396.30	0.0089	0.0053
Moon	122481-05-02 08:36 G	46456448.64	46456448.86	46456449.11	0.0089	0.0042
Earth	122481-05-02 08:21 G	46456448.65	46456448.85	46456449.10	0.0089	0.0044 *
Mercury	122481-10-06 01:09 G	46456605.53	46456605.55	46456605.59	0.0089	0.0087
Venus	122481-10-22 04:31 G	46456621.53	46456621.69	46456621.85	0.0089	0.0062
Mercury	122482-01-02 03:48 G	46456693.59	46456693.66	46456693.74	0.0089	0.0079
Mercury	122482-03-31 06:12 G	46456781.67	46456781.76	46456781.86	0.0089	0.0071
Earth	122482-05-04 21:05 G	46456816.23	46456816.38	46456816.57	0.0089	0.0067
Moon	122482-05-04 22:17 G	46456816.29	46456816.43	46456816.60	0.0089	0.0069 *
Venus	122482-06-04 17:57 G	46456847.13	46456847.25	46456847.39	0.0089	0.0072
Mercury	122482-06-27 08:50 G	46456869.76	46456869.87	46456869.99	0.0089	0.0063
Mercury	122482-09-23 11:14 G	46456957.85	46456957.97	46456958.11	0.0089	0.0055
Mercury	122482-12-20 13:53 G	46457045.94	46457046.08	46457046.23	0.0089	0.0047
Venus	122483-01-16 07:24 G	46457072.75	46457072.81	46457072.92	0.0089	0.0082
Mercury	122483-03-18 16:17 G	46457134.04	46457134.18	46457134.34	0.0089	0.0039
Moon	122483-05-07 07:09 G	46457183.80	46457183.80	46457183.84	0.0089	0.0089
Mercury	122483-06-14 18:55 G	46457222.14	46457222.29	46457222.46	0.0089	0.0031
Mercury	122483-09-10 21:33 G	46457310.24	46457310.40	46457310.57	0.0089	0.0023
Mercury	122483-12-08 00:12 G	46457398.35	46457398.51	46457398.68	0.0089	0.0014
Mercury	122484-03-05 02:50 G	46457486.45	46457486.62	46457486.79	0.0089	0.0006
Jupiter	122484-03-11 21:48 G	46457493.07	46457493.41	46457493.87	0.0089	0.0064
Mercury	122484-06-01 05:29 G	46457574.56	46457574.73	46457574.90	0.0089	0.0003
Mercury	122484-08-28 08:07 G	46457662.67	46457662.84	46457663.01	0.0089	0.0011
Mercury	122484-11-24 10:45 G	46457750.79	46457750.95	46457751.12	0.0089	0.0019
Mercury	122485-02-20 13:09 G	46457838.90	46457839.05	46457839.23	0.0089	0.0028
Mercury	122485-05-19 16:02 G	46457927.02	46457927.17	46457927.33	0.0089	0.0036
Mercury	122485-08-15 18:41 G	46458015.14	46458015.28	46458015.43	0.0089	0.0044
Mercury	122485-11-11 21:19 G	46458103.26	46458103.39	46458103.54	0.0089	0.0053
Mercury	122486-02-08 00:12 G	46458191.39	46458191.51	46458191.64	0.0089	0.0061

Mercury	122486-05-07 02:36 G	46458279.52	46458279.61	46458279.73	0.0089	0.0070
Mercury	122486-08-03 05:14 G	46458367.66	46458367.72	46458367.82	0.0089	0.0079
Mercury	122486-10-30 08:07 G	46458455.82	46458455.84	46458455.88	0.0089	0.0087
Mars	122507-01-01 11:57 G	46465822.78	46465823.00	46465823.23	0.0090	0.0066
Mars	122508-11-27 12:41 G	46466518.85	46466519.03	46466519.28	0.0090	0.0069
Venus	122553-06-09 07:53 G	46482783.77	46482783.83	46482783.95	0.0089	0.0081
Venus	122554-01-20 20:36 G	46483009.24	46483009.36	46483009.49	0.0089	0.0071
Venus	122554-09-03 08:36 G	46483234.72	46483234.86	46483235.03	0.0089	0.0062
Venus	122555-04-16 20:50 G	46483460.21	46483460.37	46483460.56	0.0089	0.0053
Venus	122555-11-28 09:19 G	46483685.71	46483685.89	46483686.08	0.0089	0.0043
Venus	122556-07-10 21:33 G	46483911.21	46483911.40	46483911.61	0.0089	0.0034
Moon	122556-10-16 11:57 G	46484008.88	46484009.00	46484009.13	0.0089	0.0076
Earth	122556-10-16 15:05 G	46484009.04	46484009.13	46484009.24	0.0089	0.0081 *
Venus	122557-02-21 09:33 G	46484136.71	46484136.90	46484137.12	0.0089	0.0025
Venus	122557-10-04 22:02 G	46484362.21	46484362.42	46484362.64	0.0089	0.0015
Earth	122557-10-19 01:09 G	46484376.38	46484376.55	46484376.77	0.0089	0.0059
Moon	122557-10-19 03:33 G	46484376.48	46484376.65	46484376.85	0.0089	0.0063 *
Venus	122558-05-18 10:17 G	46484587.72	46484587.93	46484588.15	0.0089	0.0006
Moon	122558-10-21 10:31 G	46484743.73	46484743.94	46484744.19	0.0089	0.0032
Earth	122558-10-21 12:12 G	46484743.78	46484744.01	46484744.25	0.0089	0.0036 *
Venus	122558-12-29 22:31 G	46484813.23	46484813.44	46484813.66	0.0089	0.0004
Venus	122559-08-12 11:00 G	46485038.75	46485038.96	46485039.18	0.0089	0.0013
Moon	122559-10-23 22:17 G	46485111.18	46485111.43	46485111.69	0.0089	0.0018
Earth	122559-10-23 22:45 G	46485111.20	46485111.45	46485111.71	0.0089	0.0013 *
Venus	122560-03-24 23:14 G	46485264.27	46485264.47	46485264.69	0.0089	0.0023
Earth	122560-10-25 09:33 G	46485478.64	46485478.90	46485479.15	0.0089	0.0010
Moon	122560-10-25 11:14 G	46485478.73	46485478.97	46485479.22	0.0089	0.0014 *
Venus	122560-11-05 11:14 G	46485489.79	46485489.97	46485490.19	0.0089	0.0033
Venus	122561-06-18 23:43 G	46485715.31	46485715.49	46485715.69	0.0088	0.0042
Moon	122561-10-27 17:29 G	46485845.99	46485846.23	46485846.49	0.0088	0.0028

Earth	122561-10-27 20:07 G	46485846.11	46485846.34	46485846.59	0.0088	0.0033 *
Venus	122562-01-30 12:12 G	46485940.84	46485941.01	46485941.19	0.0088	0.0051
Mercury	122562-08-07 03:48 G	46486129.63	46486129.66	46486129.71	0.0088	0.0084
Venus	122562-09-13 00:12 G	46486166.37	46486166.51	46486166.69	0.0088	0.0061
Earth	122562-10-30 06:12 G	46486213.59	46486213.76	46486213.99	0.0088	0.0056
Moon	122562-10-30 10:02 G	46486213.75	46486213.92	46486214.12	0.0088	0.0061 *
Mercury	122562-11-03 05:57 G	46486217.68	46486217.75	46486217.82	0.0088	0.0077
Mercury	122563-01-30 07:38 G	46486305.73	46486305.82	46486305.92	0.0088	0.0070
Venus	122563-04-26 12:41 G	46486391.91	46486392.03	46486392.18	0.0088	0.0070
Mercury	122563-04-28 09:19 G	46486393.80	46486393.89	46486394.01	0.0088	0.0063
Mercury	122563-07-25 11:14 G	46486481.86	46486481.97	46486482.10	0.0088	0.0055
Mercury	122563-10-21 13:24 G	46486569.93	46486570.06	46486570.18	0.0088	0.0048
Moon	122563-11-01 13:38 G	46486580.95	46486581.07	46486581.23	0.0088	0.0074
Earth	122563-11-01 17:29 G	46486581.11	46486581.23	46486581.35	0.0088	0.0078 *
Venus	122563-12-08 01:09 G	46486617.46	46486617.55	46486617.65	0.0088	0.0079
Mercury	122564-01-17 15:05 G	46486658.00	46486658.13	46486658.27	0.0088	0.0041
Mercury	122564-04-14 16:45 G	46486746.07	46486746.20	46486746.35	0.0088	0.0034
Mercury	122564-07-11 18:41 G	46486834.14	46486834.28	46486834.43	0.0088	0.0026
Venus	122564-07-20 13:09 G	46486843.05	46486843.05	46486843.09	0.0088	0.0088
Mercury	122564-10-07 20:36 G	46486922.22	46486922.36	46486922.51	0.0088	0.0019
Mercury	122565-01-03 22:17 G	46487010.29	46487010.43	46487010.58	0.0088	0.0012
Mercury	122565-04-02 00:12 G	46487098.36	46487098.51	46487098.66	0.0088	0.0005
Mercury	122565-06-29 01:53 G	46487186.44	46487186.58	46487186.73	0.0088	0.0004
Mercury	122565-09-25 03:48 G	46487274.51	46487274.66	46487274.81	0.0088	0.0009
Mercury	122565-12-22 05:29 G	46487362.59	46487362.73	46487362.88	0.0088	0.0016
Mercury	122566-03-20 07:09 G	46487450.66	46487450.80	46487450.95	0.0088	0.0024
Mercury	122566-06-16 08:50 G	46487538.74	46487538.87	46487539.02	0.0088	0.0031
Mercury	122566-09-12 10:45 G	46487626.82	46487626.95	46487627.08	0.0088	0.0037
Mercury	122566-12-09 12:26 G	46487714.90	46487715.02	46487715.15	0.0088	0.0044
Mercury	122567-03-07 14:07 G	46487802.98	46487803.09	46487803.21	0.0088	0.0051



Mercury	122567-06-03 15:48 G	46487891.06	46487891.16	46487891.28	0.0088	0.0058
Mercury	122567-08-30 17:14 G	46487979.14	46487979.22	46487979.34	0.0088	0.0066
Mercury	122567-11-26 19:24 G	46488067.23	46488067.31	46488067.39	0.0088	0.0072
Mercury	122568-02-22 20:50 G	46488155.32	46488155.37	46488155.45	0.0088	0.0079
Mercury	122568-05-20 22:31 G	46488243.42	46488243.44	46488243.49	0.0088	0.0085
Mars	122588-09-19 06:55 G	46495669.59	46495669.79	46495670.04	0.0088	0.0056
Mars	122590-08-13 23:29 G	46496363.25	46496363.48	46496363.72	0.0088	0.0054
Venus	122636-10-20 21:33 G	46513232.35	46513232.40	46513232.45	0.0088	0.0086
Venus	122637-06-03 11:00 G	46513457.87	46513457.96	46513458.09	0.0088	0.0077
Venus	122638-01-15 01:09 G	46513683.41	46513683.55	46513683.71	0.0088	0.0067
Venus	122638-08-28 14:36 G	46513908.96	46513909.11	46513909.31	0.0089	0.0058
Venus	122639-04-11 04:31 G	46514134.52	46514134.69	46514134.90	0.0089	0.0048
Venus	122639-11-22 18:26 G	46514360.08	46514360.27	46514360.49	0.0089	0.0038
Moon	122640-04-21 20:50 G	46514511.30	46514511.37	46514511.48	0.0089	0.0084
Earth	122640-04-21 22:17 G	46514511.36	46514511.43	46514511.52	0.0089	0.0084 *
Venus	122640-07-05 08:21 G	46514585.64	46514585.85	46514586.07	0.0089	0.0028
Venus	122641-02-15 22:31 G	46514811.22	46514811.44	46514811.66	0.0089	0.0018
Earth	122641-04-24 10:45 G	46514878.78	46514878.95	46514879.16	0.0089	0.0061
Moon	122641-04-24 12:55 G	46514878.87	46514879.04	46514879.23	0.0089	0.0062 *
Venus	122641-09-29 11:57 G	46515036.79	46515037.00	46515037.23	0.0089	0.0009
Moon	122642-04-26 20:07 G	46515246.12	46515246.34	46515246.60	0.0089	0.0038
Earth	122642-04-26 23:43 G	46515246.27	46515246.49	46515246.74	0.0089	0.0038 *
Venus	122642-05-13 01:53 G	46515262.35	46515262.58	46515262.80	0.0089	0.0002
Venus	122642-12-24 15:19 G	46515487.93	46515488.14	46515488.37	0.0089	0.0012
Earth	122643-04-29 12:26 G	46515613.77	46515614.02	46515614.29	0.0089	0.0015
Moon	122643-04-29 16:02 G	46515613.92	46515614.17	46515614.43	0.0089	0.0015 *
Venus	122643-08-07 05:14 G	46515713.50	46515713.72	46515713.94	0.0089	0.0021
Venus	122644-03-19 18:55 G	46515939.09	46515939.29	46515939.51	0.0089	0.0031
Moon	122644-04-30 21:48 G	46515981.15	46515981.41	46515981.67	0.0089	0.0010
Earth	122644-05-01 01:09 G	46515981.30	46515981.55	46515981.82	0.0089	0.0009 *

Venus	122644-10-31 08:21 G	46516164.67	46516164.85	46516165.06	0.0089	0.0041
Earth	122645-05-03 13:53 G	46516348.84	46516349.08	46516349.33	0.0089	0.0032
Moon	122645-05-03 16:31 G	46516348.96	46516349.19	46516349.45	0.0089	0.0032 *
Venus	122645-06-13 22:31 G	46516390.25	46516390.44	46516390.62	0.0089	0.0050
Venus	122646-01-25 11:57 G	46516615.85	46516616.00	46516616.17	0.0089	0.0060
Moon	122646-05-06 00:26 G	46516716.35	46516716.52	46516716.74	0.0089	0.0056
Earth	122646-05-06 02:36 G	46516716.41	46516716.61	46516716.81	0.0089	0.0055 *
Mercury	122646-07-04 23:14 G	46516776.44	46516776.47	46516776.53	0.0089	0.0085
Venus	122646-09-08 01:24 G	46516841.44	46516841.56	46516841.72	0.0089	0.0070
Mercury	122646-10-01 01:53 G	46516864.51	46516864.58	46516864.67	0.0089	0.0077
Mercury	122646-12-28 04:17 G	46516952.59	46516952.68	46516952.79	0.0089	0.0069
Mercury	122647-03-26 06:55 G	46517040.68	46517040.79	46517040.92	0.0089	0.0061
Venus	122647-04-21 14:50 G	46517067.05	46517067.12	46517067.25	0.0089	0.0080
Earth	122647-05-08 14:36 G	46517084.02	46517084.11	46517084.26	0.0089	0.0079
Moon	122647-05-08 15:19 G	46517084.04	46517084.14	46517084.30	0.0089	0.0078 *
Mercury	122647-06-22 09:19 G	46517128.77	46517128.89	46517129.03	0.0089	0.0053
Mercury	122647-09-18 11:57 G	46517216.86	46517217.00	46517217.15	0.0089	0.0045
Mercury	122647-12-15 14:36 G	46517304.96	46517305.11	46517305.26	0.0089	0.0037
Mercury	122648-03-12 17:00 G	46517393.06	46517393.21	46517393.38	0.0089	0.0029
Mercury	122648-06-08 19:38 G	46517481.16	46517481.32	46517481.49	0.0089	0.0021
Mercury	122648-09-04 22:17 G	46517569.27	46517569.43	46517569.60	0.0089	0.0012
Mercury	122648-12-02 00:55 G	46517657.37	46517657.54	46517657.71	0.0089	0.0004
Mercury	122649-02-28 03:33 G	46517745.48	46517745.65	46517745.82	0.0089	0.0004
Mercury	122649-05-27 05:57 G	46517833.59	46517833.75	46517833.93	0.0089	0.0013
Mercury	122649-08-23 08:36 G	46517921.70	46517921.86	46517922.03	0.0089	0.0021
Mercury	122649-11-19 11:29 G	46518009.82	46518009.98	46518010.14	0.0089	0.0029
Mercury	122650-02-15 13:53 G	46518097.94	46518098.08	46518098.24	0.0089	0.0038
Jupiter	122650-05-15 01:38 G	46518186.05	46518186.57	46518187.17	0.0089	0.0022
Mercury	122650-05-14 16:45 G	46518186.06	46518186.20	46518186.35	0.0089	0.0046 *
Mercury	122650-08-10 19:09 G	46518274.18	46518274.30	46518274.45	0.0089	0.0055

Mercury	122650-11-06 22:02 G	46518362.31	46518362.42	46518362.54	0.0089	0.0063
Mercury	122651-02-03 00:26 G	46518450.44	46518450.52	46518450.64	0.0089	0.0072
Mercury	122651-05-02 03:33 G	46518538.58	46518538.65	46518538.72	0.0089	0.0080
Mercury	122651-07-29 06:12 G	46518626.76	46518626.76	46518626.77	0.0089	0.0089
Mars	122672-07-11 21:19 G	46526280.07	46526280.39	46526280.73	0.0090	0.0008
Venus	122717-09-12 17:14 G	46542778.16	46542778.22	46542778.31	0.0089	0.0083
Venus	122718-04-26 05:14 G	46543003.63	46543003.72	46543003.86	0.0089	0.0074
Venus	122718-12-07 17:57 G	46543229.11	46543229.25	46543229.40	0.0089	0.0064
Venus	122719-07-21 05:57 G	46543454.60	46543454.75	46543454.94	0.0089	0.0055
Venus	122720-03-02 18:12 G	46543680.09	46543680.26	46543680.46	0.0089	0.0046
Venus	122720-10-14 06:41 G	46543905.58	46543905.78	46543905.98	0.0089	0.0036
Moon	122720-10-17 18:26 G	46543909.23	46543909.27	46543909.32	0.0089	0.0087
Venus	122721-05-27 18:41 G	46544131.08	46544131.28	46544131.49	0.0089	0.0027
Earth	122721-10-20 07:09 G	46544276.67	46544276.80	46544276.99	0.0089	0.0070
Moon	122721-10-20 11:00 G	46544276.85	46544276.96	46544277.12	0.0089	0.0075 *
Venus	122722-01-08 06:55 G	46544356.59	46544356.79	46544357.01	0.0089	0.0018
Venus	122722-08-21 19:24 G	46544582.10	46544582.31	46544582.53	0.0089	0.0008
Moon	122722-10-22 14:36 G	46544643.91	46544644.11	46544644.35	0.0089	0.0043
Earth	122722-10-22 18:12 G	46544644.05	46544644.26	46544644.48	0.0089	0.0047 *
Venus	122723-04-04 07:38 G	46544807.61	46544807.82	46544808.04	0.0089	0.0002
Earth	122723-10-25 04:17 G	46545011.45	46545011.68	46545011.94	0.0089	0.0025
Moon	122723-10-25 07:38 G	46545011.58	46545011.82	46545012.07	0.0089	0.0029 *
Venus	122723-11-15 19:53 G	46545033.12	46545033.33	46545033.55	0.0089	0.0011
Venus	122724-06-28 07:53 G	46545258.63	46545258.83	46545259.05	0.0089	0.0021
Moon	122724-10-26 13:38 G	46545378.82	46545379.07	46545379.32	0.0089	0.0003
Earth	122724-10-26 15:19 G	46545378.88	46545379.14	46545379.40	0.0089	0.0002 *
Venus	122725-02-08 20:21 G	46545484.15	46545484.35	46545484.56	0.0089	0.0030
Venus	122725-09-22 08:36 G	46545709.68	46545709.86	46545710.06	0.0089	0.0039
Moon	122725-10-29 01:38 G	46545746.32	46545746.57	46545746.84	0.0089	0.0018
Earth	122725-10-29 01:38 G	46545746.33	46545746.57	46545746.83	0.0089	0.0022 *

Venus	122726-05-05 20:50 G	46545935.20	46545935.37	46545935.56	0.0088	0.0049
Earth	122726-10-31 12:26 G	46546113.81	46546114.02	46546114.25	0.0088	0.0044
Moon	122726-10-31 12:55 G	46546113.86	46546114.04	46546114.27	0.0088	0.0049 *
Venus	122726-12-17 08:50 G	46546160.73	46546160.87	46546161.06	0.0088	0.0059
Mercury	122727-05-06 02:21 G	46546300.56	46546300.60	46546300.66	0.0088	0.0083
Venus	122727-07-30 21:33 G	46546386.28	46546386.40	46546386.55	0.0088	0.0068
Mercury	122727-08-02 04:17 G	46546388.61	46546388.68	46546388.76	0.0088	0.0075
Mercury	122727-10-29 05:57 G	46546476.67	46546476.75	46546476.86	0.0088	0.0069
Moon	122727-11-02 20:36 G	46546481.18	46546481.36	46546481.56	0.0088	0.0062
Earth	122727-11-02 23:00 G	46546481.31	46546481.46	46546481.64	0.0088	0.0067 *
Mercury	122728-01-25 08:07 G	46546564.74	46546564.84	46546564.95	0.0088	0.0061
Venus	122728-03-12 10:02 G	46546611.82	46546611.92	46546612.04	0.0088	0.0077
Mercury	122728-04-22 09:48 G	46546652.80	46546652.91	46546653.04	0.0088	0.0054
Mercury	122728-07-19 11:43 G	46546740.87	46546740.99	46546741.13	0.0088	0.0046
Mercury	122728-10-15 13:53 G	46546828.94	46546829.08	46546829.21	0.0088	0.0039
Venus	122728-10-23 22:31 G	46546837.40	46546837.44	46546837.49	0.0088	0.0086
Mercury	122729-01-11 15:33 G	46546917.01	46546917.15	46546917.29	0.0088	0.0032
Mercury	122729-04-09 17:29 G	46547005.09	46547005.23	46547005.37	0.0088	0.0024
Mercury	122729-07-06 19:09 G	46547093.16	46547093.30	46547093.45	0.0088	0.0018
Mercury	122729-10-02 21:05 G	46547181.23	46547181.38	46547181.53	0.0088	0.0010
Mercury	122729-12-29 23:00 G	46547269.31	46547269.46	46547269.61	0.0088	0.0003
Mercury	122730-03-28 00:41 G	46547357.38	46547357.53	46547357.68	0.0088	0.0004
Mercury	122730-06-24 02:36 G	46547445.46	46547445.61	46547445.75	0.0088	0.0011
Mercury	122730-09-20 04:17 G	46547533.54	46547533.68	46547533.82	0.0088	0.0018
Mercury	122730-12-17 05:57 G	46547621.61	46547621.75	46547621.90	0.0088	0.0025
Mercury	122731-03-15 07:38 G	46547709.69	46547709.82	46547709.96	0.0088	0.0033
Mercury	122731-06-11 09:33 G	46547797.77	46547797.90	46547798.03	0.0088	0.0039
Mercury	122731-09-07 11:14 G	46547885.85	46547885.97	46547886.10	0.0088	0.0046
Mercury	122731-12-04 12:55 G	46547973.93	46547974.04	46547974.16	0.0088	0.0053
Mercury	122732-03-01 14:36 G	46548062.01	46548062.11	46548062.22	0.0088	0.0060

Mercury	122732-05-28 16:17 G	46548150.10	46548150.18	46548150.28	0.0088	0.0067
Mercury	122732-08-24 18:12 G	46548238.18	46548238.26	46548238.34	0.0088	0.0074
Mercury	122732-11-20 19:53 G	46548326.28	46548326.33	46548326.39	0.0088	0.0080
Mercury	122733-02-16 21:19 G	46548414.39	46548414.39	46548414.42	0.0088	0.0088
Mars	122754-03-31 05:14 G	46556126.42	46556126.72	46556127.01	0.0088	0.0006
Venus	122801-01-23 05:00 G	46573226.71	46573226.71	46573226.74	0.0088	0.0088
Venus	122801-09-05 18:55 G	46573452.20	46573452.29	46573452.40	0.0088	0.0079
Venus	122802-04-19 08:50 G	46573677.74	46573677.87	46573678.02	0.0088	0.0069
Venus	122802-11-30 22:17 G	46573903.29	46573903.43	46573903.62	0.0088	0.0060
Venus	122803-07-14 12:26 G	46574128.84	46574129.02	46574129.21	0.0088	0.0050
Venus	122804-02-25 02:21 G	46574354.41	46574354.60	46574354.81	0.0089	0.0040
Venus	122804-10-07 16:17 G	46574579.97	46574580.18	46574580.40	0.0089	0.0030
Moon	122805-04-24 14:50 G	46574779.01	46574779.12	46574779.30	0.0089	0.0073
Earth	122805-04-24 16:31 G	46574779.05	46574779.19	46574779.35	0.0089	0.0072 *
Venus	122805-05-21 05:57 G	46574805.54	46574805.75	46574805.98	0.0089	0.0021
Venus	122806-01-01 19:53 G	46575031.11	46575031.33	46575031.56	0.0089	0.0011
Earth	122806-04-27 05:14 G	46575146.51	46575146.72	46575146.95	0.0089	0.0049
Moon	122806-04-27 05:14 G	46575146.52	46575146.72	46575146.97	0.0089	0.0049 *
Venus	122806-08-15 09:48 G	46575256.69	46575256.91	46575257.14	0.0089	0.0001
Venus	122807-03-28 23:29 G	46575482.26	46575482.48	46575482.71	0.0089	0.0010
Earth	122807-04-29 17:57 G	46575514.01	46575514.25	46575514.51	0.0089	0.0026
Moon	122807-04-29 19:24 G	46575514.08	46575514.31	46575514.56	0.0089	0.0026 *
Venus	122807-11-09 13:24 G	46575707.84	46575708.06	46575708.28	0.0089	0.0019
Moon	122808-05-01 04:17 G	46575881.41	46575881.68	46575881.94	0.0089	0.0003
Earth	122808-05-01 06:55 G	46575881.53	46575881.79	46575882.06	0.0089	0.0003 *
Venus	122808-06-22 02:50 G	46575933.42	46575933.62	46575933.84	0.0089	0.0029
Venus	122809-02-02 16:31 G	46576159.00	46576159.19	46576159.41	0.0089	0.0039
Earth	122809-05-03 19:24 G	46576249.06	46576249.31	46576249.57	0.0089	0.0021
Moon	122809-05-03 22:17 G	46576249.20	46576249.43	46576249.69	0.0089	0.0021 *
Venus	122809-09-16 06:12 G	46576384.59	46576384.76	46576384.96	0.0089	0.0049

Venus	122810-04-29 20:07 G	46576610.18	46576610.34	46576610.51	0.0089	0.0058
Moon	122810-05-06 04:02 G	46576616.46	46576616.67	46576616.91	0.0089	0.0044
Earth	122810-05-06 08:07 G	46576616.62	46576616.84	46576617.07	0.0089	0.0044 *
Venus	122810-12-11 09:33 G	46576835.77	46576835.90	46576836.06	0.0089	0.0068
Mercury	122811-04-01 21:48 G	46576947.36	46576947.41	46576947.48	0.0089	0.0082
Earth	122811-05-08 20:36 G	46576984.20	46576984.36	46576984.54	0.0089	0.0067
Moon	122811-05-09 00:12 G	46576984.34	46576984.51	46576984.68	0.0089	0.0067 *
Mercury	122811-06-28 23:57 G	46577035.43	46577035.50	46577035.61	0.0089	0.0075
Venus	122811-07-24 23:00 G	46577061.38	46577061.46	46577061.59	0.0089	0.0078
Mercury	122811-09-25 02:36 G	46577123.51	46577123.61	46577123.73	0.0089	0.0067
Mercury	122811-12-22 05:00 G	46577211.60	46577211.71	46577211.85	0.0089	0.0059
Venus	122812-03-06 12:55 G	46577287.02	46577287.04	46577287.10	0.0089	0.0087
Mercury	122812-03-19 07:38 G	46577299.69	46577299.82	46577299.97	0.0089	0.0051
Mercury	122812-06-15 10:02 G	46577387.79	46577387.92	46577388.08	0.0089	0.0043
Mercury	122812-09-11 12:55 G	46577475.89	46577476.04	46577476.19	0.0089	0.0034
Mercury	122812-12-08 15:33 G	46577563.99	46577564.15	46577564.31	0.0089	0.0026
Mercury	122813-03-06 17:57 G	46577652.09	46577652.25	46577652.42	0.0089	0.0018
Mercury	122813-06-02 20:36 G	46577740.19	46577740.36	46577740.53	0.0089	0.0010
Mercury	122813-08-29 23:14 G	46577828.30	46577828.47	46577828.64	0.0089	0.0002
Mercury	122813-11-26 01:38 G	46577916.41	46577916.57	46577916.74	0.0089	0.0007
Mercury	122814-02-22 04:17 G	46578004.52	46578004.68	46578004.85	0.0089	0.0015
Mercury	122814-05-21 06:55 G	46578092.63	46578092.79	46578092.96	0.0089	0.0023
Mercury	122814-08-17 09:19 G	46578180.74	46578180.89	46578181.06	0.0089	0.0032
Mercury	122814-11-13 12:12 G	46578268.86	46578269.01	46578269.16	0.0089	0.0040
Mercury	122815-02-09 14:36 G	46578356.98	46578357.11	46578357.27	0.0089	0.0049
Mercury	122815-05-08 17:14 G	46578445.10	46578445.22	46578445.37	0.0089	0.0057
Mercury	122815-08-04 20:21 G	46578533.23	46578533.35	46578533.46	0.0089	0.0065
Mercury	122815-10-31 22:45 G	46578621.37	46578621.45	46578621.55	0.0089	0.0074
Mercury	122816-01-28 01:09 G	46578709.51	46578709.55	46578709.63	0.0089	0.0083
Jupiter	122816-07-16 17:43 G	46578879.71	46578880.24	46578880.82	0.0089	0.0024

Mars	122836-02-24 02:21 G	46586041.37	46586041.60	46586041.90	0.0090	0.0055
Mars	122838-01-20 06:12 G	46586737.63	46586737.76	46586737.91	0.0090	0.0081
Venus	122881-12-15 02:21 G	46602772.56	46602772.60	46602772.68	0.0089	0.0085
Venus	122882-07-28 14:36 G	46602998.02	46602998.11	46602998.24	0.0089	0.0076
Venus	122883-03-11 03:19 G	46603223.50	46603223.64	46603223.78	0.0089	0.0066
Venus	122883-10-22 15:19 G	46603448.99	46603449.14	46603449.31	0.0089	0.0057
Venus	122884-06-04 03:19 G	46603674.48	46603674.64	46603674.84	0.0089	0.0048
Venus	122885-01-15 16:02 G	46603899.97	46603900.17	46603900.36	0.0089	0.0038
Venus	122885-08-29 04:02 G	46604125.48	46604125.67	46604125.88	0.0089	0.0029
Earth	122885-10-19 13:38 G	46604176.99	46604177.07	46604177.20	0.0089	0.0081
Moon	122885-10-19 14:50 G	46604177.07	46604177.12	46604177.20	0.0089	0.0085 *
Venus	122886-04-11 16:17 G	46604350.98	46604351.18	46604351.40	0.0089	0.0020
Moon	122886-10-21 22:02 G	46604544.22	46604544.42	46604544.63	0.0089	0.0053
Earth	122886-10-22 00:41 G	46604544.34	46604544.53	46604544.72	0.0089	0.0058 *
Venus	122886-11-23 04:45 G	46604576.48	46604576.70	46604576.91	0.0089	0.0010
Venus	122887-07-06 17:00 G	46604801.99	46604802.21	46604802.42	0.0089	0.0001
Earth	122887-10-24 10:45 G	46604911.73	46604911.95	46604912.20	0.0089	0.0036
Moon	122887-10-24 14:07 G	46604911.88	46604912.09	46604912.33	0.0089	0.0040 *
Venus	122888-02-17 05:14 G	46605027.50	46605027.72	46605027.93	0.0089	0.0009
Venus	122888-09-29 17:14 G	46605253.01	46605253.22	46605253.44	0.0089	0.0018
Moon	122888-10-25 17:57 G	46605279.01	46605279.25	46605279.51	0.0089	0.0009
Earth	122888-10-25 21:33 G	46605279.15	46605279.40	46605279.66	0.0089	0.0013 *
Venus	122889-05-13 05:29 G	46605478.53	46605478.73	46605478.94	0.0089	0.0028
Earth	122889-10-28 08:07 G	46605646.58	46605646.84	46605647.09	0.0089	0.0010
Moon	122889-10-28 11:29 G	46605646.72	46605646.98	46605647.24	0.0089	0.0005 *
Venus	122889-12-24 17:29 G	46605704.05	46605704.23	46605704.44	0.0089	0.0038
Venus	122890-08-07 05:57 G	46605929.58	46605929.75	46605929.95	0.0089	0.0047
Moon	122890-10-30 16:17 G	46606013.96	46606014.18	46606014.41	0.0089	0.0037
Earth	122890-10-30 18:12 G	46606014.04	46606014.26	46606014.51	0.0089	0.0033 *
Venus	122891-03-20 18:26 G	46606155.11	46606155.27	46606155.44	0.0089	0.0056

Venus	122891-11-01 06:12 G	46606380.64	46606380.76	46606380.93	0.0088	0.0066
Earth	122891-11-02 04:45 G	46606381.52	46606381.70	46606381.92	0.0088	0.0056
Moon	122891-11-02 05:57 G	46606381.56	46606381.75	46606381.99	0.0088	0.0052 *
Mercury	122892-01-31 00:41 G	46606471.49	46606471.53	46606471.61	0.0088	0.0082
Mercury	122892-04-28 02:50 G	46606559.55	46606559.62	46606559.71	0.0088	0.0074
Venus	122892-06-13 18:41 G	46606606.18	46606606.28	46606606.41	0.0088	0.0075
Mercury	122892-07-25 04:45 G	46606647.61	46606647.70	46606647.81	0.0088	0.0067
Mercury	122892-10-21 06:26 G	46606735.68	46606735.77	46606735.90	0.0088	0.0060
Earth	122892-11-03 15:48 G	46606749.05	46606749.16	46606749.29	0.0088	0.0078
Moon	122892-11-03 15:33 G	46606749.09	46606749.15	46606749.26	0.0088	0.0083 *
Mercury	122893-01-17 08:36 G	46606823.74	46606823.86	46606823.99	0.0088	0.0052
Venus	122893-01-25 07:09 G	46606831.74	46606831.80	46606831.88	0.0088	0.0084
Mercury	122893-04-15 10:31 G	46606911.81	46606911.94	46606912.07	0.0088	0.0044
Mercury	122893-07-12 12:12 G	46606999.88	46607000.01	46607000.16	0.0088	0.0038
Mercury	122893-10-08 14:07 G	46607087.96	46607088.09	46607088.24	0.0088	0.0030
Mercury	122894-01-04 16:02 G	46607176.03	46607176.17	46607176.32	0.0088	0.0023
Mercury	122894-04-02 17:57 G	46607264.10	46607264.25	46607264.40	0.0088	0.0016
Mercury	122894-06-29 19:53 G	46607352.18	46607352.33	46607352.47	0.0088	0.0009
Mercury	122894-09-25 21:33 G	46607440.25	46607440.40	46607440.55	0.0088	0.0002
Mercury	122894-12-22 23:29 G	46607528.33	46607528.48	46607528.62	0.0088	0.0006
Mercury	122895-03-21 01:09 G	46607616.41	46607616.55	46607616.70	0.0088	0.0013
Mercury	122895-06-17 02:50 G	46607704.48	46607704.62	46607704.77	0.0088	0.0020
Mercury	122895-09-13 04:45 G	46607792.56	46607792.70	46607792.84	0.0088	0.0027
Mercury	122895-12-10 06:26 G	46607880.64	46607880.77	46607880.91	0.0088	0.0034
Mercury	122896-03-07 08:07 G	46607968.72	46607968.84	46607968.98	0.0088	0.0041
Mercury	122896-06-03 09:48 G	46608056.80	46608056.91	46608057.04	0.0088	0.0049
Mercury	122896-08-30 11:29 G	46608144.88	46608144.98	46608145.11	0.0088	0.0056
Mercury	122896-11-26 13:09 G	46608232.96	46608233.05	46608233.17	0.0088	0.0063
Mercury	122897-02-22 15:19 G	46608321.05	46608321.14	46608321.23	0.0088	0.0069
Mercury	122897-05-21 17:00 G	46608409.14	46608409.21	46608409.28	0.0088	0.0076



Mercury	122897-08-17 18:26 G	46608497.23	46608497.27	46608497.33	0.0088	0.0083
Mars	122917-11-14 11:57 G	46615889.75	46615890.00	46615890.27	0.0088	0.0042
Mars	122919-10-09 03:33 G	46616583.49	46616583.65	46616583.86	0.0088	0.0068
Venus	122965-12-09 02:50 G	46633446.54	46633446.62	46633446.72	0.0088	0.0081
Venus	122966-07-22 16:17 G	46633672.07	46633672.18	46633672.34	0.0088	0.0072
Venus	122967-03-05 06:26 G	46633897.62	46633897.77	46633897.95	0.0088	0.0062
Venus	122967-10-16 20:21 G	46634123.18	46634123.35	46634123.54	0.0088	0.0052
Venus	122968-05-29 10:17 G	46634348.74	46634348.93	46634349.13	0.0088	0.0042
Venus	122969-01-09 23:57 G	46634574.30	46634574.50	46634574.72	0.0089	0.0032
Moon	122969-04-24 17:29 G	46634679.16	46634679.23	46634679.35	0.0089	0.0083
Earth	122969-04-24 21:33 G	46634679.33	46634679.40	46634679.50	0.0089	0.0083 *
Venus	122969-08-23 13:53 G	46634799.87	46634800.08	46634800.31	0.0089	0.0022
Venus	122970-04-06 03:48 G	46635025.44	46635025.66	46635025.89	0.0089	0.0013
Earth	122970-04-27 10:31 G	46635046.76	46635046.94	46635047.14	0.0089	0.0060
Moon	122970-04-27 13:09 G	46635046.88	46635047.05	46635047.27	0.0089	0.0061 *
Venus	122970-11-17 17:43 G	46635251.01	46635251.24	46635251.46	0.0089	0.0003
Moon	122971-04-29 21:05 G	46635414.16	46635414.38	46635414.62	0.0089	0.0037
Earth	122971-04-29 23:29 G	46635414.25	46635414.48	46635414.73	0.0089	0.0037 *
Venus	122971-07-01 07:24 G	46635476.59	46635476.81	46635477.03	0.0089	0.0007
Venus	122972-02-11 21:19 G	46635702.17	46635702.39	46635702.61	0.0089	0.0017
Earth	122972-05-01 12:12 G	46635781.76	46635782.01	46635782.27	0.0089	0.0014
Moon	122972-05-01 13:24 G	46635781.79	46635782.06	46635782.33	0.0089	0.0014 *
Venus	122972-09-24 11:00 G	46635927.75	46635927.96	46635928.18	0.0089	0.0027
Earth	122973-05-04 00:55 G	46636149.29	46636149.54	46636149.81	0.0089	0.0010
Moon	122973-05-04 01:53 G	46636149.33	46636149.58	46636149.83	0.0089	0.0011 *
Venus	122973-05-08 00:26 G	46636153.33	46636153.52	46636153.74	0.0089	0.0037
Venus	122973-12-19 14:07 G	46636378.92	46636379.09	46636379.30	0.0089	0.0047
Moon	122974-05-06 11:43 G	46636516.76	46636516.99	46636517.26	0.0089	0.0033
Earth	122974-05-06 13:38 G	46636516.84	46636517.07	46636517.32	0.0089	0.0033 *
Venus	122974-08-02 04:02 G	46636604.51	46636604.67	46636604.85	0.0089	0.0056

Venus	122975-03-15 17:43 G	46636830.10	46636830.24	46636830.40	0.0089	0.0066
Earth	122975-05-09 02:07 G	46636884.40	46636884.59	46636884.80	0.0089	0.0056
Moon	122975-05-09 04:45 G	46636884.53	46636884.70	46636884.92	0.0089	0.0057 *
Mercury	122975-10-01 17:29 G	46637030.22	46637030.23	46637030.27	0.0089	0.0088
Venus	122975-10-27 07:09 G	46637055.71	46637055.80	46637055.94	0.0089	0.0076
Mercury	122975-12-28 19:53 G	46637118.28	46637118.33	46637118.42	0.0089	0.0080
Mercury	122976-03-25 22:31 G	46637206.36	46637206.44	46637206.55	0.0089	0.0072
Moon	122976-05-10 10:45 G	46637251.86	46637251.95	46637252.11	0.0089	0.0078
Earth	122976-05-10 14:50 G	46637252.02	46637252.12	46637252.25	0.0089	0.0079 *
Venus	122976-06-08 21:05 G	46637281.33	46637281.38	46637281.45	0.0089	0.0085
Mercury	122976-06-22 00:55 G	46637294.44	46637294.54	46637294.67	0.0089	0.0064
Mercury	122976-09-18 03:33 G	46637382.53	46637382.65	46637382.79	0.0089	0.0056
Mercury	122976-12-15 05:57 G	46637470.62	46637470.75	46637470.90	0.0089	0.0048
Mercury	122977-03-13 08:36 G	46637558.72	46637558.86	46637559.01	0.0089	0.0040
Mercury	122977-06-09 11:00 G	46637646.81	46637646.96	46637647.13	0.0089	0.0032
Mercury	122977-09-05 13:38 G	46637734.91	46637735.07	46637735.24	0.0089	0.0024
Mercury	122977-12-02 16:17 G	46637823.01	46637823.18	46637823.35	0.0089	0.0016
Mercury	122978-02-28 18:41 G	46637911.12	46637911.28	46637911.45	0.0089	0.0008
Mercury	122978-05-27 21:19 G	46637999.22	46637999.39	46637999.56	0.0089	0.0002
Mercury	122978-08-23 23:57 G	46638087.33	46638087.50	46638087.67	0.0089	0.0009
Mercury	122978-11-20 02:36 G	46638175.44	46638175.61	46638175.78	0.0089	0.0017
Mercury	122979-02-16 05:00 G	46638263.56	46638263.71	46638263.88	0.0089	0.0026
Mercury	122979-05-15 07:38 G	46638351.67	46638351.82	46638351.98	0.0089	0.0034
Mercury	122979-08-11 10:31 G	46638439.79	46638439.94	46638440.09	0.0089	0.0042
Mercury	122979-11-07 12:55 G	46638527.91	46638528.04	46638528.19	0.0089	0.0051
Mercury	122980-02-03 15:33 G	46638616.03	46638616.15	46638616.29	0.0089	0.0059
Mercury	122980-05-01 18:12 G	46638704.16	46638704.26	46638704.38	0.0089	0.0068
Mercury	122980-07-28 21:05 G	46638792.30	46638792.38	46638792.47	0.0089	0.0076
Mercury	122980-10-24 23:29 G	46638880.45	46638880.48	46638880.54	0.0089	0.0085
Jupiter	122982-09-22 19:24 G	46639578.01	46639578.31	46639578.75	0.0089	0.0068

# 124TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 124th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Mars	123001-09-04 13:09	G	46646498.74	46646499.05	46646499.39	0.0090	0.0021	
Venus	123046-03-20 11:14	G	46662766.96	46662766.97	46662767.03	0.0089	0.0088	
Venus	123046-10-31 23:43	G	46662992.40	46662992.49	46662992.60	0.0089	0.0078	
Venus	123047-06-14 11:57	G	46663217.88	46663218.00	46663218.15	0.0089	0.0069	
Venus	123048-01-26 00:12	G	46663443.37	46663443.51	46663443.68	0.0089	0.0060	
Venus	123048-09-07 12:41	G	46663668.86	46663669.03	46663669.22	0.0089	0.0050	
Venus	123049-04-21 00:55	G	46663894.36	46663894.54	46663894.74	0.0089	0.0041	
Venus	123049-12-02 13:24	G	46664119.86	46664120.06	46664120.26	0.0089	0.0031	
Venus	123050-07-16 01:24	G	46664345.36	46664345.56	46664345.78	0.0089	0.0022	
Earth	123050-10-23 06:41	G	46664444.64	46664444.78	46664444.95	0.0089	0.0069	
Moon	123050-10-23 07:38	G	46664444.66	46664444.82	46664445.02	0.0089	0.0065	*
Venus	123051-02-26 13:53	G	46664570.87	46664571.08	46664571.30	0.0089	0.0012	
Venus	123051-10-10 02:07	G	46664796.37	46664796.59	46664796.81	0.0089	0.0003	
Earth	123051-10-25 17:00	G	46664812.02	46664812.21	46664812.45	0.0089	0.0047	
Moon	123051-10-25 17:43	G	46664812.04	46664812.24	46664812.45	0.0089	0.0051	*
Venus	123052-05-22 14:21	G	46665021.88	46665022.10	46665022.31	0.0089	0.0007	
Moon	123052-10-27 01:53	G	46665179.32	46665179.58	46665179.84	0.0089	0.0020	
Earth	123052-10-27 04:02	G	46665179.43	46665179.67	46665179.92	0.0089	0.0024	*

Venus	123053-01-03 02:36 G	46665247.40	46665247.61	46665247.82	0.0089	0.0016
Venus	123053-08-16 14:36 G	46665472.92	46665473.11	46665473.33	0.0089	0.0026
Earth	123053-10-29 14:21 G	46665546.84	46665547.10	46665547.35	0.0089	0.0001
Moon	123053-10-29 17:00 G	46665546.96	46665547.21	46665547.46	0.0089	0.0005 *
Venus	123054-03-30 03:05 G	46665698.44	46665698.63	46665698.83	0.0089	0.0035
Moon	123054-10-31 21:19 G	46665914.15	46665914.39	46665914.64	0.0089	0.0026
Earth	123054-11-01 00:41 G	46665914.29	46665914.53	46665914.79	0.0089	0.0022 *
Venus	123054-11-10 15:05 G	46665923.96	46665924.13	46665924.33	0.0089	0.0045
Venus	123055-06-24 03:19 G	46666149.48	46666149.64	46666149.82	0.0089	0.0054
Earth	123055-11-03 11:29 G	46666281.76	46666281.98	46666282.20	0.0089	0.0044
Moon	123055-11-03 14:50 G	46666281.90	46666282.12	46666282.35	0.0089	0.0040 *
Venus	123056-02-04 15:48 G	46666375.01	46666375.16	46666375.31	0.0089	0.0063
Mercury	123056-08-01 21:48 G	46666554.39	46666554.41	46666554.44	0.0089	0.0087
Venus	123056-09-17 03:48 G	46666600.56	46666600.66	46666600.80	0.0089	0.0073
Mercury	123056-10-28 23:29 G	46666642.43	46666642.48	46666642.56	0.0088	0.0080
Moon	123056-11-04 18:41 G	46666649.15	46666649.28	46666649.45	0.0088	0.0071
Earth	123056-11-04 21:33 G	46666649.25	46666649.40	46666649.59	0.0088	0.0067 *
Mercury	123057-01-25 01:38 G	46666730.49	46666730.57	46666730.66	0.0088	0.0072
Mercury	123057-04-23 03:19 G	46666818.55	46666818.64	46666818.75	0.0088	0.0065
Venus	123057-04-30 16:17 G	46666826.11	46666826.18	46666826.27	0.0088	0.0082
Mercury	123057-07-20 05:14 G	46666906.62	46666906.72	46666906.84	0.0088	0.0058
Mercury	123057-10-16 07:24 G	46666994.69	46666994.81	46666994.93	0.0088	0.0050
Moon	123057-11-07 10:17 G	46667016.88	46667016.93	46667017.03	0.0088	0.0085
Mercury	123058-01-12 09:05 G	46667082.76	46667082.88	46667083.02	0.0088	0.0043
Mercury	123058-04-10 11:00 G	46667170.83	46667170.96	46667171.10	0.0088	0.0035
Mercury	123058-07-07 12:41 G	46667258.90	46667259.03	46667259.18	0.0088	0.0029
Mercury	123058-10-03 14:50 G	46667346.97	46667347.12	46667347.26	0.0088	0.0021
Mercury	123058-12-30 16:45 G	46667435.05	46667435.20	46667435.34	0.0088	0.0014
Mercury	123059-03-28 18:26 G	46667523.12	46667523.27	46667523.42	0.0088	0.0007
Mercury	123059-06-24 20:21 G	46667611.20	46667611.35	46667611.50	0.0088	0.0001

Mercury	123059-09-20 22:02 G	46667699.28	46667699.42	46667699.57	0.0088	0.0008
Mercury	123059-12-17 23:57 G	46667787.35	46667787.50	46667787.65	0.0088	0.0015
Mercury	123060-03-15 01:38 G	46667875.43	46667875.57	46667875.72	0.0088	0.0022
Mercury	123060-06-11 03:19 G	46667963.51	46667963.64	46667963.79	0.0088	0.0030
Mercury	123060-09-07 05:14 G	46668051.59	46668051.72	46668051.86	0.0088	0.0036
Mercury	123060-12-04 06:55 G	46668139.67	46668139.79	46668139.93	0.0088	0.0043
Mercury	123061-03-02 08:36 G	46668227.75	46668227.86	46668227.99	0.0088	0.0051
Mercury	123061-05-29 10:17 G	46668315.83	46668315.93	46668316.06	0.0088	0.0058
Mercury	123061-08-25 12:12 G	46668403.92	46668404.01	46668404.12	0.0088	0.0064
Mercury	123061-11-21 13:53 G	46668492.01	46668492.08	46668492.18	0.0088	0.0071
Mercury	123062-02-17 15:48 G	46668580.10	46668580.16	46668580.23	0.0088	0.0078
Mercury	123062-05-16 17:29 G	46668668.20	46668668.23	46668668.27	0.0088	0.0085
Mars	123083-05-25 09:05 G	46676346.60	46676346.88	46676347.17	0.0088	0.0019
Venus	123130-03-14 11:00 G	46693440.91	46693440.96	46693441.06	0.0088	0.0083
Venus	123130-10-26 01:09 G	46693666.43	46693666.55	46693666.68	0.0088	0.0073
Venus	123131-06-08 14:36 G	46693891.97	46693892.11	46693892.29	0.0088	0.0064
Venus	123132-01-20 04:31 G	46694117.53	46694117.69	46694117.89	0.0088	0.0054
Venus	123132-09-01 18:41 G	46694343.09	46694343.28	46694343.48	0.0088	0.0044
Venus	123133-04-15 08:36 G	46694568.65	46694568.86	46694569.07	0.0088	0.0034
Venus	123133-11-26 22:02 G	46694794.21	46694794.42	46694794.65	0.0089	0.0025
Earth	123134-04-28 16:17 G	46694947.05	46694947.18	46694947.36	0.0089	0.0071
Moon	123134-04-28 19:09 G	46694947.18	46694947.30	46694947.48	0.0089	0.0072 *
Venus	123134-07-10 11:57 G	46695019.78	46695020.00	46695020.23	0.0089	0.0015
Venus	123135-02-21 02:07 G	46695245.36	46695245.59	46695245.81	0.0089	0.0005
Moon	123135-05-01 01:24 G	46695314.36	46695314.56	46695314.81	0.0089	0.0047
Earth	123135-05-01 05:14 G	46695314.52	46695314.72	46695314.96	0.0089	0.0048 *
Venus	123135-10-04 15:48 G	46695470.94	46695471.16	46695471.39	0.0089	0.0005
Earth	123136-05-02 18:12 G	46695682.02	46695682.26	46695682.52	0.0089	0.0025
Moon	123136-05-02 21:48 G	46695682.17	46695682.41	46695682.67	0.0089	0.0025 *
Venus	123136-05-17 05:29 G	46695696.51	46695696.73	46695696.96	0.0089	0.0015

Venus	123136-12-28 19:24 G	46695922.09	46695922.31	46695922.52	0.0089	0.0025
Moon	123137-05-05 04:17 G	46696049.42	46696049.68	46696049.93	0.0089	0.0001
Earth	123137-05-05 07:24 G	46696049.55	46696049.81	46696050.07	0.0089	0.0001 *
Venus	123137-08-11 08:50 G	46696147.68	46696147.87	46696148.09	0.0089	0.0035
Venus	123138-03-24 22:45 G	46696373.27	46696373.45	46696373.65	0.0089	0.0045
Earth	123138-05-07 20:07 G	46696417.09	46696417.34	46696417.59	0.0089	0.0022
Moon	123138-05-07 22:02 G	46696417.16	46696417.42	46696417.68	0.0089	0.0021 *
Venus	123138-11-05 12:12 G	46696598.86	46696599.01	46696599.21	0.0089	0.0055
Moon	123139-05-10 07:24 G	46696784.61	46696784.81	46696785.04	0.0089	0.0046
Earth	123139-05-10 08:50 G	46696784.65	46696784.87	46696785.10	0.0089	0.0045 *
Venus	123139-06-19 02:07 G	46696824.45	46696824.59	46696824.76	0.0089	0.0064
Venus	123140-01-30 15:48 G	46697050.06	46697050.16	46697050.30	0.0089	0.0074
Moon	123140-05-11 20:21 G	46697152.20	46697152.35	46697152.55	0.0089	0.0068
Earth	123140-05-11 21:19 G	46697152.23	46697152.39	46697152.56	0.0089	0.0068 *
Mercury	123140-06-29 16:02 G	46697201.14	46697201.17	46697201.24	0.0089	0.0085
Venus	123140-09-12 05:14 G	46697275.68	46697275.72	46697275.82	0.0089	0.0084
Mercury	123140-09-25 18:26 G	46697289.21	46697289.27	46697289.37	0.0089	0.0077
Mercury	123140-12-22 21:05 G	46697377.29	46697377.38	46697377.50	0.0089	0.0069
Mercury	123141-03-20 23:29 G	46697465.37	46697465.48	46697465.61	0.0089	0.0061
Mercury	123141-06-17 02:07 G	46697553.46	46697553.59	46697553.73	0.0089	0.0053
Mercury	123141-09-13 04:31 G	46697641.56	46697641.69	46697641.84	0.0089	0.0045
Mercury	123141-12-10 07:09 G	46697729.65	46697729.80	46697729.96	0.0089	0.0037
Mercury	123142-03-08 09:33 G	46697817.75	46697817.90	46697818.07	0.0089	0.0029
Mercury	123142-06-04 12:12 G	46697905.85	46697906.01	46697906.18	0.0089	0.0021
Mercury	123142-08-31 14:36 G	46697993.95	46697994.11	46697994.28	0.0089	0.0013
Mercury	123142-11-27 17:14 G	46698082.06	46698082.22	46698082.39	0.0089	0.0005
Mercury	123143-02-23 19:53 G	46698170.16	46698170.33	46698170.50	0.0089	0.0004
Mercury	123143-05-22 22:17 G	46698258.27	46698258.43	46698258.60	0.0089	0.0012
Mercury	123143-08-19 00:55 G	46698346.38	46698346.54	46698346.71	0.0089	0.0020
Mercury	123143-11-15 03:19 G	46698434.49	46698434.64	46698434.81	0.0089	0.0029

Mercury	123144-02-11 05:57 G	46698522.61	46698522.75	46698522.91	0.0089	0.0037
Mercury	123144-05-09 08:50 G	46698610.72	46698610.87	46698611.02	0.0089	0.0045
Mercury	123144-08-05 11:00 G	46698698.84	46698698.96	46698699.11	0.0089	0.0054
Mercury	123144-11-01 13:53 G	46698786.97	46698787.08	46698787.21	0.0089	0.0062
Mercury	123145-01-28 16:45 G	46698875.10	46698875.20	46698875.30	0.0089	0.0070
Mercury	123145-04-26 19:09 G	46698963.24	46698963.30	46698963.39	0.0089	0.0079
Mercury	123145-07-23 22:02 G	46699051.40	46699051.42	46699051.45	0.0089	0.0087
Mars	123165-04-18 21:33 G	46706260.10	46706260.40	46706260.70	0.0090	0.0040
Venus	123211-02-03 09:19 G	46722986.81	46722986.89	46722986.99	0.0089	0.0080
Venus	123211-09-16 21:19 G	46723212.28	46723212.39	46723212.54	0.0089	0.0071
Venus	123212-04-29 09:33 G	46723437.76	46723437.90	46723438.07	0.0089	0.0062
Venus	123212-12-10 22:02 G	46723663.26	46723663.42	46723663.60	0.0089	0.0052
Venus	123213-07-24 10:17 G	46723888.76	46723888.93	46723889.13	0.0089	0.0043
Venus	123214-03-06 22:31 G	46724114.26	46724114.44	46724114.65	0.0089	0.0034
Venus	123214-10-18 11:00 G	46724339.76	46724339.96	46724340.17	0.0089	0.0024
Earth	123214-10-23 13:24 G	46724344.97	46724345.06	46724345.18	0.0089	0.0080
Moon	123214-10-23 17:14 G	46724345.09	46724345.22	46724345.36	0.0089	0.0075 *
Venus	123215-05-31 23:00 G	46724565.26	46724565.46	46724565.68	0.0089	0.0015
Moon	123215-10-25 20:50 G	46724712.20	46724712.37	46724712.56	0.0089	0.0062
Earth	123215-10-25 23:43 G	46724712.32	46724712.49	46724712.71	0.0089	0.0058 *
Venus	123216-01-12 11:29 G	46724790.77	46724790.98	46724791.20	0.0089	0.0005
Venus	123216-08-24 23:57 G	46725016.28	46725016.50	46725016.71	0.0089	0.0005
Earth	123216-10-27 10:17 G	46725079.71	46725079.93	46725080.18	0.0089	0.0035
Moon	123216-10-27 13:24 G	46725079.82	46725080.06	46725080.31	0.0089	0.0030 *
Venus	123217-04-07 12:12 G	46725241.79	46725242.01	46725242.22	0.0089	0.0014
Moon	123217-10-29 19:38 G	46725447.08	46725447.32	46725447.57	0.0089	0.0017
Earth	123217-10-29 21:05 G	46725447.13	46725447.38	46725447.63	0.0089	0.0012 *
Venus	123217-11-18 23:57 G	46725467.31	46725467.50	46725467.72	0.0089	0.0024
Venus	123218-07-02 12:26 G	46725692.82	46725693.02	46725693.22	0.0089	0.0033
Earth	123218-11-01 07:24 G	46725814.56	46725814.81	46725815.07	0.0089	0.0011

Moon	123218-11-01 07:53 G	46725814.58	46725814.83	46725815.10	0.0089	0.0015	*
Venus	123219-02-13 00:26 G	46725918.34	46725918.52	46725918.72	0.0089	0.0043	
Venus	123219-09-26 12:41 G	46726143.87	46726144.03	46726144.22	0.0089	0.0052	
Earth	123219-11-03 17:29 G	46726182.01	46726182.23	46726182.49	0.0089	0.0034	
Moon	123219-11-03 18:41 G	46726182.06	46726182.28	46726182.53	0.0089	0.0029	*
Venus	123220-05-09 01:09 G	46726369.40	46726369.55	46726369.71	0.0089	0.0061	
Moon	123220-11-05 01:24 G	46726549.38	46726549.56	46726549.77	0.0089	0.0060	
Earth	123220-11-05 04:02 G	46726549.49	46726549.67	46726549.89	0.0089	0.0056	*
Venus	123220-12-20 12:55 G	46726594.93	46726595.04	46726595.19	0.0089	0.0071	
Mercury	123221-04-29 20:21 G	46726725.32	46726725.35	46726725.40	0.0089	0.0085	
Mercury	123221-07-26 22:17 G	46726813.37	46726813.43	46726813.51	0.0089	0.0078	
Venus	123221-08-03 01:24 G	46726820.49	46726820.56	46726820.67	0.0089	0.0080	
Mercury	123221-10-22 23:57 G	46726901.43	46726901.50	46726901.61	0.0089	0.0071	
Earth	123221-11-07 14:07 G	46726917.01	46726917.09	46726917.24	0.0089	0.0079	
Moon	123221-11-07 17:43 G	46726917.11	46726917.24	46726917.39	0.0089	0.0074	*
Mercury	123222-01-19 02:07 G	46726989.49	46726989.59	46726989.70	0.0089	0.0063	
Mercury	123222-04-17 04:02 G	46727077.56	46727077.67	46727077.79	0.0088	0.0055	
Mercury	123222-07-14 05:43 G	46727165.63	46727165.74	46727165.88	0.0088	0.0049	
Mercury	123222-10-10 07:53 G	46727253.70	46727253.83	46727253.96	0.0088	0.0041	
Mercury	123223-01-06 09:33 G	46727341.77	46727341.90	46727342.05	0.0088	0.0034	
Mercury	123223-04-04 11:29 G	46727429.84	46727429.98	46727430.13	0.0088	0.0027	
Mercury	123223-07-01 13:24 G	46727517.92	46727518.06	46727518.21	0.0088	0.0019	
Mercury	123223-09-27 15:19 G	46727605.99	46727606.14	46727606.29	0.0088	0.0012	
Mercury	123223-12-24 17:14 G	46727694.07	46727694.22	46727694.37	0.0088	0.0005	
Mercury	123224-03-21 18:55 G	46727782.15	46727782.29	46727782.44	0.0088	0.0004	
Mercury	123224-06-17 20:50 G	46727870.22	46727870.37	46727870.52	0.0088	0.0010	
Mercury	123224-09-13 22:31 G	46727958.30	46727958.44	46727958.59	0.0088	0.0017	
Mercury	123224-12-11 00:26 G	46728046.38	46728046.52	46728046.66	0.0088	0.0024	
Mercury	123225-03-09 02:07 G	46728134.46	46728134.59	46728134.74	0.0088	0.0031	
Mercury	123225-06-05 03:48 G	46728222.54	46728222.66	46728222.81	0.0088	0.0039	



Jupiter	123225-06-15 21:05 G	46728233.05	46728233.38	46728233.78	0.0088	0.0063
Mercury	123225-09-01 05:43 G	46728310.62	46728310.74	46728310.87	0.0088	0.0045
Mercury	123225-11-28 07:24 G	46728398.70	46728398.81	46728398.94	0.0088	0.0052
Mercury	123226-02-24 09:05 G	46728486.79	46728486.88	46728487.00	0.0088	0.0059
Mercury	123226-05-23 10:45 G	46728574.87	46728574.95	46728575.06	0.0088	0.0067
Mercury	123226-08-19 12:55 G	46728662.96	46728663.04	46728663.12	0.0088	0.0073
Mercury	123226-11-15 14:36 G	46728751.05	46728751.11	46728751.17	0.0088	0.0080
Mercury	123227-02-11 16:17 G	46728839.16	46728839.18	46728839.21	0.0088	0.0086
Mars	123247-01-08 17:43 G	46736109.97	46736110.24	46736110.52	0.0088	0.0029
Mars	123248-12-02 08:07 G	46736803.74	46736803.84	46736803.95	0.0088	0.0081
Venus	123294-06-15 19:24 G	46753435.27	46753435.31	46753435.40	0.0088	0.0085
Venus	123295-01-27 09:33 G	46753660.79	46753660.90	46753661.03	0.0088	0.0075
Venus	123295-09-09 23:00 G	46753886.34	46753886.46	46753886.64	0.0088	0.0066
Venus	123296-04-22 12:55 G	46754111.88	46754112.04	46754112.23	0.0088	0.0056
Venus	123296-12-04 02:50 G	46754337.44	46754337.62	46754337.82	0.0088	0.0046
Venus	123297-07-17 16:45 G	46754563.00	46754563.20	46754563.41	0.0088	0.0036
Venus	123298-02-28 06:26 G	46754788.57	46754788.77	46754789.00	0.0089	0.0027
Moon	123298-04-27 19:53 G	46754847.25	46754847.33	46754847.47	0.0089	0.0080
Earth	123298-04-27 22:17 G	46754847.35	46754847.43	46754847.56	0.0089	0.0082 *
Venus	123298-10-11 20:21 G	46755014.14	46755014.35	46755014.58	0.0089	0.0017
Earth	123299-04-30 11:00 G	46755214.79	46755214.96	46755215.19	0.0089	0.0059
Moon	123299-04-30 12:41 G	46755214.84	46755215.03	46755215.23	0.0089	0.0060 *
Venus	123299-05-25 10:17 G	46755239.71	46755239.93	46755240.16	0.0089	0.0007
Venus	123300-01-06 00:12 G	46755465.28	46755465.51	46755465.73	0.0089	0.0004
Earth	123300-05-03 00:12 G	46755582.29	46755582.51	46755582.77	0.0089	0.0036
Moon	123300-05-03 01:09 G	46755582.32	46755582.55	46755582.78	0.0089	0.0034 *
Venus	123300-08-19 13:53 G	46755690.86	46755691.08	46755691.31	0.0089	0.0013
Venus	123301-04-02 03:48 G	46755916.44	46755916.66	46755916.88	0.0089	0.0023
Moon	123301-05-05 11:57 G	46755949.74	46755950.00	46755950.27	0.0089	0.0014
Earth	123301-05-05 13:24 G	46755949.81	46755950.06	46755950.32	0.0089	0.0012 *

Venus	123301-11-13 17:29 G	46756142.03	46756142.23	46756142.44	0.0089	0.0033
Earth	123302-05-08 02:07 G	46756317.34	46756317.59	46756317.86	0.0089	0.0012
Moon	123302-05-08 05:00 G	46756317.46	46756317.71	46756317.97	0.0089	0.0013 *
Venus	123302-06-27 07:09 G	46756367.61	46756367.80	46756368.00	0.0089	0.0043
Venus	123303-02-07 20:50 G	46756593.21	46756593.37	46756593.57	0.0089	0.0053
Moon	123303-05-10 11:14 G	46756684.74	46756684.97	46756685.23	0.0089	0.0034
Earth	123303-05-10 14:50 G	46756684.89	46756685.12	46756685.37	0.0089	0.0035 *
Venus	123303-09-21 10:31 G	46756818.80	46756818.94	46756819.12	0.0089	0.0063
Venus	123304-05-04 00:26 G	46757044.41	46757044.52	46757044.66	0.0089	0.0072
Earth	123304-05-12 03:19 G	46757052.47	46757052.64	46757052.86	0.0089	0.0058
Moon	123304-05-12 07:09 G	46757052.62	46757052.80	46757053.01	0.0089	0.0060 *
Venus	123304-12-15 13:53 G	46757270.02	46757270.08	46757270.19	0.0089	0.0082
Mercury	123305-03-27 15:05 G	46757372.07	46757372.13	46757372.20	0.0089	0.0081
Moon	123305-05-14 12:55 G	46757419.95	46757420.04	46757420.18	0.0089	0.0079
Earth	123305-05-14 16:02 G	46757420.10	46757420.17	46757420.31	0.0089	0.0081 *
Mercury	123305-06-23 17:29 G	46757460.14	46757460.23	46757460.32	0.0089	0.0073
Mercury	123305-09-19 19:38 G	46757548.22	46757548.32	46757548.45	0.0089	0.0066
Mercury	123305-12-16 22:02 G	46757636.31	46757636.42	46757636.56	0.0089	0.0058
Mercury	123306-03-15 00:41 G	46757724.40	46757724.53	46757724.68	0.0089	0.0050
Mercury	123306-06-11 03:05 G	46757812.50	46757812.63	46757812.79	0.0089	0.0042
Mercury	123306-09-07 05:43 G	46757900.59	46757900.74	46757900.90	0.0089	0.0034
Mercury	123306-12-04 08:07 G	46757988.69	46757988.84	46757989.01	0.0089	0.0026
Mercury	123307-03-02 10:45 G	46758076.79	46758076.95	46758077.12	0.0089	0.0018
Mercury	123307-05-29 13:24 G	46758164.89	46758165.06	46758165.23	0.0089	0.0009
Mercury	123307-08-25 15:48 G	46758253.00	46758253.16	46758253.33	0.0089	0.0003
Mercury	123307-11-21 18:26 G	46758341.10	46758341.27	46758341.44	0.0089	0.0007
Mercury	123308-02-17 21:05 G	46758429.21	46758429.38	46758429.54	0.0089	0.0015
Mercury	123308-05-15 23:29 G	46758517.32	46758517.48	46758517.65	0.0089	0.0024
Mercury	123308-08-12 02:07 G	46758605.44	46758605.59	46758605.75	0.0089	0.0032
Mercury	123308-11-08 04:45 G	46758693.55	46758693.70	46758693.85	0.0089	0.0040

Mercury	123309-02-04 07:09 G	46758781.67	46758781.80	46758781.95	0.0089	0.0049
Mercury	123309-05-03 09:48 G	46758869.79	46758869.91	46758870.05	0.0089	0.0057
Mercury	123309-07-30 12:41 G	46758957.92	46758958.03	46758958.14	0.0089	0.0065
Mercury	123309-10-26 14:50 G	46759046.05	46759046.12	46759046.23	0.0089	0.0074
Mercury	123310-01-22 17:43 G	46759134.19	46759134.24	46759134.31	0.0089	0.0082
Mars	123330-10-28 10:45 G	46766717.64	46766717.95	46766718.26	0.0090	0.0036
Venus	123375-05-08 18:26 G	46782981.22	46782981.27	46782981.38	0.0089	0.0083
Venus	123375-12-20 07:09 G	46783206.69	46783206.80	46783206.93	0.0089	0.0073
Venus	123376-08-01 19:24 G	46783432.18	46783432.31	46783432.47	0.0089	0.0064
Venus	123377-03-15 07:53 G	46783657.66	46783657.83	46783658.00	0.0089	0.0054
Venus	123377-10-26 19:53 G	46783883.16	46783883.33	46783883.53	0.0089	0.0045
Venus	123378-06-09 08:07 G	46784108.66	46784108.84	46784109.05	0.0089	0.0036
Moon	123378-10-23 19:24 G	46784245.29	46784245.31	46784245.39	0.0089	0.0087
Venus	123379-01-20 20:36 G	46784334.16	46784334.36	46784334.57	0.0089	0.0026
Venus	123379-09-03 08:50 G	46784559.67	46784559.87	46784560.09	0.0089	0.0017
Moon	123379-10-26 06:26 G	46784612.63	46784612.77	46784612.93	0.0089	0.0072
Earth	123379-10-26 07:09 G	46784612.65	46784612.80	46784612.98	0.0089	0.0068 *
Venus	123380-04-15 21:19 G	46784785.18	46784785.39	46784785.61	0.0089	0.0007
Earth	123380-10-27 17:29 G	46784980.03	46784980.23	46784980.47	0.0089	0.0046
Moon	123380-10-27 19:09 G	46784980.10	46784980.30	46784980.54	0.0089	0.0042 *
Venus	123380-11-27 09:33 G	46785010.69	46785010.90	46785011.12	0.0089	0.0003
Venus	123381-07-10 21:48 G	46785236.20	46785236.41	46785236.63	0.0089	0.0012
Moon	123381-10-30 01:09 G	46785347.32	46785347.55	46785347.81	0.0089	0.0028
Earth	123381-10-30 04:17 G	46785347.45	46785347.68	46785347.94	0.0089	0.0023 *
Venus	123382-02-21 10:02 G	46785461.72	46785461.92	46785462.13	0.0089	0.0022
Venus	123382-10-04 22:31 G	46785687.23	46785687.44	46785687.64	0.0089	0.0031
Earth	123382-11-01 15:05 G	46785714.87	46785715.13	46785715.38	0.0089	0.0001
Moon	123382-11-01 18:26 G	46785715.02	46785715.27	46785715.53	0.0089	0.0005 *
Venus	123383-05-18 10:17 G	46785912.75	46785912.93	46785913.14	0.0089	0.0041
Moon	123383-11-03 22:02 G	46786082.18	46786082.42	46786082.67	0.0089	0.0018

Earth	123383-11-04 01:24 G	46786082.32	46786082.56	46786082.81	0.0089	0.0023	*
Venus	123383-12-29 22:45 G	46786138.28	46786138.45	46786138.63	0.0089	0.0050	
Venus	123384-08-11 10:45 G	46786363.81	46786363.95	46786364.13	0.0089	0.0060	
Earth	123384-11-05 11:43 G	46786449.78	46786449.99	46786450.22	0.0089	0.0045	
Moon	123384-11-05 14:36 G	46786449.91	46786450.11	46786450.34	0.0089	0.0050	*
Venus	123385-03-24 23:00 G	46786589.34	46786589.46	46786589.61	0.0089	0.0069	
Venus	123385-11-05 11:29 G	46786814.89	46786814.98	46786815.09	0.0089	0.0078	
Moon	123385-11-07 20:21 G	46786817.20	46786817.35	46786817.55	0.0089	0.0064	
Earth	123385-11-07 22:02 G	46786817.27	46786817.42	46786817.60	0.0089	0.0068	*
Mercury	123386-01-25 19:09 G	46786896.26	46786896.30	46786896.36	0.0089	0.0083	
Mercury	123386-04-23 21:19 G	46786984.31	46786984.39	46786984.47	0.0089	0.0075	
Venus	123386-06-18 23:14 G	46787040.46	46787040.47	46787040.53	0.0089	0.0088	
Mercury	123386-07-20 23:00 G	46787072.37	46787072.46	46787072.56	0.0089	0.0068	
Mercury	123386-10-17 00:55 G	46787160.44	46787160.54	46787160.66	0.0089	0.0060	
Mercury	123387-01-13 03:05 G	46787248.51	46787248.63	46787248.75	0.0089	0.0053	
Mercury	123387-04-11 04:45 G	46787336.58	46787336.70	46787336.83	0.0088	0.0046	
Mercury	123387-07-08 06:41 G	46787424.65	46787424.78	46787424.92	0.0088	0.0038	
Mercury	123387-10-04 08:21 G	46787512.72	46787512.85	46787513.00	0.0088	0.0032	
Mercury	123387-12-31 10:31 G	46787600.80	46787600.94	46787601.09	0.0088	0.0024	
Mercury	123388-03-28 12:26 G	46787688.87	46787689.02	46787689.17	0.0088	0.0017	
Mercury	123388-06-24 14:07 G	46787776.95	46787777.09	46787777.24	0.0088	0.0010	
Mercury	123388-09-20 16:02 G	46787865.02	46787865.17	46787865.32	0.0088	0.0003	
Mercury	123388-12-17 17:57 G	46787953.10	46787953.25	46787953.40	0.0088	0.0005	
Mercury	123389-03-15 19:38 G	46788041.18	46788041.32	46788041.47	0.0088	0.0013	
Mercury	123389-06-11 21:33 G	46788129.26	46788129.40	46788129.55	0.0088	0.0019	
Mercury	123389-09-07 23:14 G	46788217.34	46788217.47	46788217.62	0.0088	0.0027	
Mercury	123389-12-05 01:09 G	46788305.42	46788305.55	46788305.69	0.0088	0.0033	
Mercury	123390-03-03 02:50 G	46788393.50	46788393.62	46788393.76	0.0088	0.0041	
Mercury	123390-05-30 04:45 G	46788481.58	46788481.70	46788481.83	0.0088	0.0047	
Mercury	123390-08-26 06:26 G	46788569.66	46788569.77	46788569.89	0.0088	0.0055	

Mercury	123390-11-22 08:07 G	46788657.74	46788657.84	46788657.95	0.0088	0.0062
Mercury	123391-02-18 09:48 G	46788745.83	46788745.91	46788746.01	0.0088	0.0069
Mercury	123391-05-17 11:29 G	46788833.92	46788833.98	46788834.07	0.0088	0.0076
Jupiter	123391-08-13 02:36 G	46788921.14	46788921.61	46788922.14	0.0088	0.0022
Mercury	123391-08-13 13:09 G	46788922.02	46788922.05	46788922.12	0.0088	0.0083 *
Mars	123410-08-26 02:21 G	46795873.49	46795873.60	46795873.77	0.0088	0.0077
Mars	123412-07-19 17:00 G	46796566.95	46796567.21	46796567.49	0.0088	0.0033
Venus	123458-09-19 05:00 G	46813429.66	46813429.71	46813429.76	0.0088	0.0086
Venus	123459-05-02 18:12 G	46813655.17	46813655.26	46813655.40	0.0088	0.0077
Venus	123459-12-14 08:21 G	46813880.71	46813880.85	46813881.00	0.0088	0.0067
Venus	123460-07-26 21:48 G	46814106.26	46814106.41	46814106.60	0.0088	0.0058
Venus	123461-03-09 11:43 G	46814331.82	46814331.99	46814332.20	0.0088	0.0048
Venus	123461-10-21 01:38 G	46814557.38	46814557.57	46814557.79	0.0088	0.0038
Moon	123462-04-29 02:50 G	46814747.62	46814747.62	46814747.65	0.0089	0.0088
Venus	123462-06-03 15:33 G	46814782.94	46814783.15	46814783.37	0.0089	0.0028
Venus	123463-01-15 05:29 G	46815008.51	46815008.73	46815008.95	0.0089	0.0018
Earth	123463-05-01 17:57 G	46815115.11	46815115.25	46815115.44	0.0089	0.0069
Moon	123463-05-01 21:19 G	46815115.27	46815115.39	46815115.56	0.0089	0.0073 *
Venus	123463-08-28 19:09 G	46815234.08	46815234.30	46815234.53	0.0089	0.0008
Venus	123464-04-10 09:05 G	46815459.65	46815459.88	46815460.10	0.0089	0.0002
Moon	123464-05-03 03:33 G	46815482.43	46815482.65	46815482.89	0.0089	0.0042
Earth	123464-05-03 07:09 G	46815482.59	46815482.80	46815483.04	0.0089	0.0046 *
Venus	123464-11-21 22:31 G	46815685.23	46815685.44	46815685.67	0.0089	0.0012
Earth	123465-05-05 19:53 G	46815850.09	46815850.33	46815850.60	0.0089	0.0023
Moon	123465-05-05 23:14 G	46815850.23	46815850.47	46815850.73	0.0089	0.0026 *
Venus	123465-07-05 12:12 G	46815910.81	46815911.01	46815911.24	0.0089	0.0022
Venus	123466-02-16 02:07 G	46816136.39	46816136.59	46816136.81	0.0089	0.0032
Moon	123466-05-08 06:12 G	46816217.51	46816217.76	46816218.02	0.0089	0.0005
Earth	123466-05-08 09:05 G	46816217.62	46816217.88	46816218.14	0.0089	0.0001 *
Venus	123466-09-29 16:02 G	46816361.98	46816362.17	46816362.38	0.0089	0.0041

Earth	123467-05-10 21:48 G	46816585.16	46816585.41	46816585.66	0.0089	0.0024
Moon	123467-05-10 23:00 G	46816585.21	46816585.46	46816585.74	0.0089	0.0021 *
Venus	123467-05-13 05:43 G	46816587.57	46816587.74	46816587.93	0.0089	0.0051
Venus	123467-12-24 19:09 G	46816813.16	46816813.30	46816813.49	0.0089	0.0061
Earth	123468-05-12 10:31 G	46816952.73	46816952.94	46816953.17	0.0089	0.0047
Moon	123468-05-12 10:45 G	46816952.75	46816952.95	46816953.16	0.0089	0.0050 *
Venus	123468-08-06 09:19 G	46817038.76	46817038.89	46817039.03	0.0089	0.0070
Venus	123469-03-19 23:00 G	46817264.38	46817264.46	46817264.57	0.0089	0.0080
Moon	123469-05-14 21:48 G	46817320.26	46817320.41	46817320.62	0.0089	0.0067
Earth	123469-05-14 23:14 G	46817320.32	46817320.47	46817320.64	0.0089	0.0070 *
Mercury	123469-09-26 11:00 G	46817454.94	46817454.96	46817455.02	0.0089	0.0086
Mercury	123469-12-23 13:38 G	46817543.00	46817543.07	46817543.15	0.0089	0.0078
Mercury	123470-03-21 16:02 G	46817631.08	46817631.17	46817631.28	0.0089	0.0070
Mercury	123470-06-17 18:41 G	46817719.16	46817719.28	46817719.40	0.0089	0.0062
Mercury	123470-09-13 21:05 G	46817807.25	46817807.38	46817807.51	0.0089	0.0054
Mercury	123470-12-10 23:29 G	46817895.34	46817895.48	46817895.63	0.0089	0.0046
Mercury	123471-03-09 02:07 G	46817983.44	46817983.59	46817983.74	0.0089	0.0038
Mercury	123471-06-05 04:31 G	46818071.53	46818071.69	46818071.85	0.0089	0.0030
Mercury	123471-09-01 06:55 G	46818159.63	46818159.79	46818159.96	0.0089	0.0022
Mercury	123471-11-28 09:33 G	46818247.73	46818247.90	46818248.06	0.0089	0.0014
Mercury	123472-02-24 11:57 G	46818335.84	46818336.00	46818336.17	0.0089	0.0006
Mercury	123472-05-22 14:36 G	46818423.94	46818424.11	46818424.28	0.0089	0.0002
Mercury	123472-08-18 17:00 G	46818512.05	46818512.21	46818512.38	0.0089	0.0011
Mercury	123472-11-14 19:38 G	46818600.16	46818600.32	46818600.49	0.0089	0.0019
Mercury	123473-02-10 22:02 G	46818688.27	46818688.42	46818688.59	0.0089	0.0027
Mercury	123473-05-10 00:41 G	46818776.38	46818776.53	46818776.69	0.0089	0.0035
Mercury	123473-08-06 03:05 G	46818864.50	46818864.63	46818864.79	0.0089	0.0044
Mercury	123473-11-02 05:43 G	46818952.62	46818952.74	46818952.89	0.0089	0.0052
Mercury	123474-01-29 08:36 G	46819040.74	46819040.86	46819040.99	0.0089	0.0060
Mercury	123474-04-27 11:00 G	46819128.87	46819128.96	46819129.08	0.0089	0.0069

Mercury	123474-07-24 13:38 G	46819217.00	46819217.07	46819217.16	0.0089	0.0077
Mercury	123474-10-20 16:02 G	46819305.15	46819305.17	46819305.24	0.0089	0.0086
Mars	123494-06-11 19:24 G	46826479.00	46826479.31	46826479.65	0.0090	0.0024
Venus	123539-08-12 05:29 G	46842975.67	46842975.73	46842975.79	0.0089	0.0084
Venus	123540-03-24 17:14 G	46843201.12	46843201.22	46843201.35	0.0089	0.0075
Venus	123540-11-05 05:14 G	46843426.60	46843426.72	46843426.89	0.0089	0.0066
Venus	123541-06-18 17:57 G	46843652.08	46843652.25	46843652.42	0.0089	0.0056
Venus	123542-01-30 05:57 G	46843877.58	46843877.75	46843877.94	0.0089	0.0047
Venus	123542-09-12 18:12 G	46844103.08	46844103.26	46844103.47	0.0089	0.0038
Venus	123543-04-26 06:26 G	46844328.58	46844328.77	46844328.98	0.0089	0.0028
Earth	123543-10-27 14:07 G	46844513.00	46844513.09	46844513.24	0.0089	0.0079
Moon	123543-10-27 17:57 G	46844513.18	46844513.25	46844513.37	0.0089	0.0082 *
Venus	123543-12-07 18:41 G	46844554.08	46844554.28	46844554.50	0.0089	0.0019
Venus	123544-07-20 07:09 G	46844779.59	46844779.80	46844780.02	0.0089	0.0009
Moon	123544-10-28 22:02 G	46844880.24	46844880.42	46844880.64	0.0089	0.0053
Earth	123544-10-29 01:09 G	46844880.37	46844880.55	46844880.76	0.0089	0.0056 *
Venus	123545-03-02 19:24 G	46845005.10	46845005.31	46845005.53	0.0089	0.0002
Venus	123545-10-14 07:38 G	46845230.61	46845230.82	46845231.04	0.0089	0.0010
Earth	123545-10-31 11:29 G	46845247.77	46845247.98	46845248.24	0.0089	0.0034
Moon	123545-10-31 14:07 G	46845247.87	46845248.09	46845248.35	0.0089	0.0036 *
Venus	123546-05-27 19:53 G	46845456.13	46845456.33	46845456.55	0.0089	0.0020
Moon	123546-11-02 21:33 G	46845615.16	46845615.40	46845615.65	0.0089	0.0008
Earth	123546-11-02 22:31 G	46845615.19	46845615.44	46845615.70	0.0089	0.0011 *
Venus	123547-01-08 08:21 G	46845681.64	46845681.85	46845682.05	0.0089	0.0029
Venus	123547-08-21 20:21 G	46845907.17	46845907.35	46845907.56	0.0089	0.0039
Moon	123547-11-05 08:07 G	46845982.58	46845982.84	46845983.11	0.0089	0.0008
Earth	123547-11-05 08:50 G	46845982.62	46845982.87	46845983.13	0.0089	0.0012 *
Venus	123548-04-03 08:50 G	46846132.69	46846132.87	46846133.06	0.0089	0.0048
Earth	123548-11-06 19:09 G	46846350.08	46846350.30	46846350.55	0.0089	0.0035
Moon	123548-11-06 20:50 G	46846350.15	46846350.37	46846350.60	0.0089	0.0038 *

Venus	123548-11-14 20:36 G	46846358.22	46846358.36	46846358.55	0.0089	0.0058
Venus	123549-06-28 09:05 G	46846583.75	46846583.88	46846584.03	0.0089	0.0067
Moon	123549-11-09 02:50 G	46846717.42	46846717.62	46846717.83	0.0089	0.0053
Earth	123549-11-09 05:57 G	46846717.56	46846717.75	46846717.95	0.0089	0.0057 *
Venus	123550-02-08 21:33 G	46846809.29	46846809.40	46846809.51	0.0089	0.0076
Mercury	123550-07-28 16:02 G	46846979.16	46846979.17	46846979.20	0.0089	0.0087
Venus	123550-09-22 09:33 G	46847034.86	46847034.90	46847034.97	0.0089	0.0086
Mercury	123550-10-24 18:12 G	46847067.20	46847067.26	46847067.33	0.0089	0.0080
Earth	123550-11-11 15:48 G	46847085.07	46847085.16	46847085.30	0.0089	0.0080
Moon	123550-11-11 19:09 G	46847085.25	46847085.30	46847085.41	0.0089	0.0084 *
Mercury	123551-01-20 19:53 G	46847155.26	46847155.33	46847155.43	0.0089	0.0073
Mercury	123551-04-18 22:02 G	46847243.32	46847243.42	46847243.52	0.0089	0.0065
Mercury	123551-07-15 23:57 G	46847331.39	46847331.50	46847331.62	0.0089	0.0058
Mercury	123551-10-12 01:38 G	46847419.46	46847419.57	46847419.71	0.0089	0.0051
Mercury	123552-01-08 03:48 G	46847507.53	46847507.66	46847507.79	0.0088	0.0043
Mercury	123552-04-05 05:43 G	46847595.60	46847595.74	46847595.88	0.0088	0.0036
Mercury	123552-07-02 07:24 G	46847683.68	46847683.81	46847683.96	0.0088	0.0029
Mercury	123552-09-28 09:19 G	46847771.75	46847771.89	46847772.04	0.0088	0.0022
Mercury	123552-12-25 11:14 G	46847859.83	46847859.97	46847860.12	0.0088	0.0014
Mercury	123553-03-23 13:09 G	46847947.90	46847948.05	46847948.20	0.0088	0.0007
Mercury	123553-06-19 15:05 G	46848035.98	46848036.13	46848036.28	0.0088	0.0001
Mercury	123553-09-15 17:00 G	46848124.06	46848124.21	46848124.36	0.0088	0.0008
Mercury	123553-12-12 18:41 G	46848212.14	46848212.28	46848212.43	0.0088	0.0015
Mercury	123554-03-10 20:36 G	46848300.21	46848300.36	46848300.50	0.0088	0.0022
Mercury	123554-06-06 22:17 G	46848388.29	46848388.43	46848388.57	0.0088	0.0029
Mercury	123554-09-02 23:57 G	46848476.37	46848476.50	46848476.64	0.0088	0.0036
Mercury	123554-11-30 01:53 G	46848564.46	46848564.58	46848564.71	0.0088	0.0043
Mercury	123555-02-26 03:33 G	46848652.54	46848652.65	46848652.78	0.0088	0.0050
Mercury	123555-05-25 05:14 G	46848740.62	46848740.72	46848740.84	0.0088	0.0058
Mercury	123555-08-21 06:55 G	46848828.71	46848828.79	46848828.91	0.0088	0.0065



Mercury	123555-11-17 08:50 G	46848916.79	46848916.87	46848916.97	0.0088	0.0071
Mercury	123556-02-13 10:45 G	46849004.89	46849004.95	46849005.02	0.0088	0.0078
Mercury	123556-05-11 12:26 G	46849092.99	46849093.02	46849093.07	0.0088	0.0085
Jupiter	123557-10-10 16:31 G	46849609.70	46849610.19	46849610.70	0.0088	0.0023
Mars	123576-03-05 02:07 G	46856330.31	46856330.59	46856330.88	0.0088	0.0014
Venus	123622-12-22 13:24 G	46873424.05	46873424.06	46873424.10	0.0088	0.0088
Venus	123623-08-05 03:05 G	46873649.55	46873649.63	46873649.75	0.0088	0.0078
Venus	123624-03-17 17:00 G	46873875.09	46873875.21	46873875.37	0.0088	0.0069
Venus	123624-10-29 06:55 G	46874100.64	46874100.79	46874100.97	0.0088	0.0059
Venus	123625-06-11 21:05 G	46874326.19	46874326.38	46874326.57	0.0088	0.0049
Venus	123626-01-23 10:31 G	46874551.76	46874551.94	46874552.16	0.0088	0.0040
Venus	123626-09-06 00:26 G	46874777.32	46874777.52	46874777.75	0.0088	0.0030
Venus	123627-04-19 14:21 G	46875002.89	46875003.10	46875003.33	0.0089	0.0020
Moon	123627-05-02 00:12 G	46875015.44	46875015.51	46875015.61	0.0089	0.0083
Earth	123627-05-02 01:24 G	46875015.46	46875015.56	46875015.70	0.0089	0.0079 *
Venus	123627-12-01 04:17 G	46875228.46	46875228.68	46875228.90	0.0089	0.0010
Earth	123628-05-03 14:21 G	46875382.92	46875383.10	46875383.32	0.0089	0.0056
Moon	123628-05-03 15:05 G	46875382.92	46875383.13	46875383.36	0.0089	0.0051 *
Venus	123628-07-13 17:57 G	46875454.03	46875454.25	46875454.48	0.0089	0.0002
Venus	123629-02-24 07:53 G	46875679.61	46875679.83	46875680.06	0.0089	0.0010
Earth	123629-05-06 03:19 G	46875750.41	46875750.64	46875750.89	0.0089	0.0033
Moon	123629-05-06 04:31 G	46875750.48	46875750.69	46875750.93	0.0089	0.0038 *
Venus	123629-10-07 21:33 G	46875905.19	46875905.40	46875905.63	0.0089	0.0020
Moon	123630-05-08 13:53 G	46876117.81	46876118.08	46876118.35	0.0089	0.0005
Earth	123630-05-08 16:17 G	46876117.93	46876118.18	46876118.45	0.0089	0.0010 *
Venus	123630-05-21 11:14 G	46876130.77	46876130.97	46876131.19	0.0089	0.0030
Venus	123631-01-02 00:55 G	46876356.35	46876356.54	46876356.76	0.0089	0.0040
Earth	123631-05-11 05:00 G	46876485.46	46876485.71	46876485.98	0.0089	0.0014
Moon	123631-05-11 08:07 G	46876485.59	46876485.84	46876486.10	0.0089	0.0009 *
Venus	123631-08-15 14:36 G	46876581.94	46876582.11	46876582.32	0.0089	0.0050

Venus	123632-03-28 04:45 G	46876807.54	46876807.70	46876807.87	0.0089	0.0059
Moon	123632-05-12 13:53 G	46876852.87	46876853.08	46876853.33	0.0089	0.0042
Earth	123632-05-12 17:43 G	46876853.02	46876853.24	46876853.49	0.0089	0.0037 *
Venus	123632-11-08 18:26 G	46877033.14	46877033.27	46877033.42	0.0089	0.0069
Earth	123633-05-15 06:26 G	46877220.60	46877220.77	46877220.98	0.0089	0.0060
Moon	123633-05-15 10:02 G	46877220.72	46877220.92	46877221.13	0.0089	0.0055 *
Venus	123633-06-22 07:53 G	46877258.75	46877258.83	46877258.96	0.0089	0.0079
Venus	123634-02-02 22:17 G	46877484.41	46877484.43	46877484.45	0.0089	0.0088
Moon	123634-05-17 16:02 G	46877588.16	46877588.17	46877588.24	0.0089	0.0088
Earth	123634-05-17 19:09 G	46877588.23	46877588.30	46877588.42	0.0089	0.0083 *
Mercury	123634-06-24 10:02 G	46877625.87	46877625.92	46877625.99	0.0089	0.0082
Mercury	123634-09-20 12:41 G	46877713.94	46877714.03	46877714.12	0.0089	0.0074
Mercury	123634-12-17 15:05 G	46877802.02	46877802.13	46877802.24	0.0089	0.0066
Mercury	123635-03-15 17:29 G	46877890.11	46877890.23	46877890.36	0.0089	0.0058
Mercury	123635-06-11 19:38 G	46877978.20	46877978.32	46877978.47	0.0089	0.0051
Mercury	123635-09-07 22:17 G	46878066.29	46878066.43	46878066.58	0.0089	0.0043
Mercury	123635-12-05 00:41 G	46878154.39	46878154.53	46878154.69	0.0089	0.0035
Mercury	123636-03-02 03:05 G	46878242.48	46878242.63	46878242.80	0.0089	0.0027
Mercury	123636-05-29 05:57 G	46878330.58	46878330.75	46878330.91	0.0089	0.0018
Mercury	123636-08-25 08:21 G	46878418.69	46878418.85	46878419.02	0.0089	0.0010
Mercury	123636-11-21 11:00 G	46878506.79	46878506.96	46878507.12	0.0089	0.0003
Mercury	123637-02-17 13:24 G	46878594.90	46878595.06	46878595.23	0.0089	0.0006
Mercury	123637-05-16 16:02 G	46878683.00	46878683.17	46878683.33	0.0089	0.0014
Mercury	123637-08-12 18:26 G	46878771.11	46878771.27	46878771.44	0.0089	0.0023
Mercury	123637-11-08 20:50 G	46878859.22	46878859.37	46878859.54	0.0089	0.0031
Mercury	123638-02-04 23:43 G	46878947.34	46878947.49	46878947.64	0.0089	0.0039
Mercury	123638-05-04 01:53 G	46879035.45	46879035.58	46879035.74	0.0089	0.0048
Mercury	123638-07-31 04:31 G	46879123.57	46879123.69	46879123.84	0.0089	0.0056
Mercury	123638-10-27 07:24 G	46879211.70	46879211.81	46879211.93	0.0089	0.0064
Mercury	123639-01-23 09:48 G	46879299.83	46879299.91	46879300.02	0.0089	0.0073

Mercury	123639-04-21 12:26 G	46879387.97	46879388.02	46879388.10	0.0089	0.0081
Mars	123658-01-24 04:31 G	46886240.59	46886240.69	46886240.83	0.0090	0.0084
Mars	123659-12-21 12:12 G	46886936.76	46886937.01	46886937.29	0.0090	0.0055
Venus	123703-11-14 15:48 G	46902970.12	46902970.16	46902970.22	0.0089	0.0086
Venus	123704-06-27 03:48 G	46903195.57	46903195.66	46903195.79	0.0089	0.0077
Venus	123705-02-07 16:17 G	46903421.05	46903421.18	46903421.33	0.0089	0.0067
Venus	123705-09-21 04:17 G	46903646.54	46903646.68	46903646.86	0.0089	0.0058
Venus	123706-05-04 16:31 G	46903872.02	46903872.19	46903872.38	0.0089	0.0049
Venus	123706-12-16 04:45 G	46904097.52	46904097.70	46904097.90	0.0089	0.0039
Venus	123707-07-29 17:00 G	46904323.02	46904323.21	46904323.43	0.0089	0.0030
Earth	123707-10-27 23:00 G	46904413.46	46904413.46	46904413.50	0.0089	0.0089
Venus	123708-03-11 05:29 G	46904548.52	46904548.73	46904548.94	0.0089	0.0020
Venus	123708-10-22 17:43 G	46904774.03	46904774.24	46904774.45	0.0089	0.0011
Moon	123708-10-29 06:55 G	46904780.64	46904780.79	46904781.00	0.0089	0.0064
Earth	123708-10-29 09:33 G	46904780.75	46904780.90	46904781.09	0.0089	0.0066 *
Venus	123709-06-05 05:57 G	46904999.53	46904999.75	46904999.96	0.0089	0.0001
Earth	123709-10-31 19:53 G	46905148.13	46905148.33	46905148.57	0.0089	0.0044
Moon	123709-10-31 23:14 G	46905148.27	46905148.47	46905148.69	0.0089	0.0046 *
Venus	123710-01-16 17:57 G	46905225.04	46905225.25	46905225.47	0.0089	0.0009
Venus	123710-08-30 06:26 G	46905450.57	46905450.77	46905450.99	0.0089	0.0018
Moon	123710-11-03 03:19 G	46905515.39	46905515.64	46905515.89	0.0089	0.0019
Earth	123710-11-03 06:41 G	46905515.54	46905515.78	46905516.04	0.0089	0.0021 *
Venus	123711-04-12 18:41 G	46905676.08	46905676.28	46905676.49	0.0089	0.0028
Earth	123711-11-05 17:29 G	46905882.97	46905883.23	46905883.48	0.0089	0.0002
Moon	123711-11-05 21:05 G	46905883.12	46905883.38	46905883.63	0.0089	0.0002 *
Venus	123711-11-24 06:55 G	46905901.60	46905901.79	46905901.99	0.0089	0.0037
Venus	123712-07-06 18:55 G	46906127.12	46906127.29	46906127.49	0.0089	0.0047
Moon	123712-11-07 01:38 G	46906250.33	46906250.57	46906250.81	0.0089	0.0027
Earth	123712-11-07 03:48 G	46906250.43	46906250.66	46906250.92	0.0089	0.0025 *
Venus	123713-02-17 07:24 G	46906352.65	46906352.81	46906352.99	0.0089	0.0056

Venus	123713-09-30 19:24 G	46906578.19	46906578.31	46906578.48	0.0089	0.0066
Earth	123713-11-09 14:21 G	46906617.89	46906618.10	46906618.32	0.0089	0.0047
Moon	123713-11-09 16:02 G	46906617.96	46906618.17	46906618.41	0.0089	0.0045 *
Venus	123714-05-14 07:53 G	46906803.73	46906803.83	46906803.96	0.0089	0.0075
Earth	123714-11-12 00:26 G	46906985.39	46906985.52	46906985.70	0.0089	0.0070
Moon	123714-11-12 00:12 G	46906985.40	46906985.51	46906985.68	0.0089	0.0073 *
Venus	123714-12-25 20:07 G	46907029.29	46907029.34	46907029.42	0.0089	0.0084
Mercury	123715-04-25 14:50 G	46907150.10	46907150.12	46907150.19	0.0089	0.0085
Mercury	123715-07-22 17:00 G	46907238.15	46907238.21	46907238.30	0.0089	0.0077
Mercury	123715-10-18 18:55 G	46907326.21	46907326.29	46907326.40	0.0089	0.0070
Moon	123715-11-14 09:33 G	46907352.90	46907352.90	46907352.93	0.0089	0.0088
Mercury	123716-01-14 21:05 G	46907414.28	46907414.38	46907414.49	0.0089	0.0062
Mercury	123716-04-11 23:00 G	46907502.35	46907502.46	46907502.58	0.0089	0.0055
Mercury	123716-07-09 00:41 G	46907590.42	46907590.53	46907590.67	0.0089	0.0048
Mercury	123716-10-05 02:50 G	46907678.49	46907678.62	46907678.76	0.0089	0.0040
Mercury	123717-01-01 04:45 G	46907766.56	46907766.70	46907766.84	0.0088	0.0033
Mercury	123717-03-30 06:41 G	46907854.64	46907854.78	46907854.93	0.0088	0.0025
Mercury	123717-06-26 08:21 G	46907942.71	46907942.85	46907943.01	0.0088	0.0019
Mercury	123717-09-22 10:31 G	46908030.79	46908030.94	46908031.09	0.0088	0.0011
Mercury	123717-12-19 12:26 G	46908118.87	46908119.02	46908119.17	0.0088	0.0004
Mercury	123718-03-17 14:07 G	46908206.94	46908207.09	46908207.24	0.0088	0.0004
Mercury	123718-06-13 16:02 G	46908295.02	46908295.17	46908295.32	0.0088	0.0011
Mercury	123718-09-09 17:43 G	46908383.10	46908383.24	46908383.39	0.0088	0.0018
Mercury	123718-12-06 19:24 G	46908471.18	46908471.31	46908471.46	0.0088	0.0026
Mercury	123719-03-04 21:19 G	46908559.26	46908559.39	46908559.54	0.0088	0.0032
Mercury	123719-05-31 23:00 G	46908647.34	46908647.46	46908647.61	0.0088	0.0040
Mercury	123719-08-28 00:55 G	46908735.42	46908735.54	46908735.67	0.0088	0.0046
Mercury	123719-11-24 02:36 G	46908823.50	46908823.61	46908823.74	0.0088	0.0054
Mercury	123720-02-20 04:17 G	46908911.59	46908911.68	46908911.80	0.0088	0.0061
Mercury	123720-05-18 06:12 G	46908999.68	46908999.76	46908999.87	0.0088	0.0067

Mercury	123720-08-14 07:53 G	46909087.77	46909087.83	46909087.92	0.0088	0.0074
Mercury	123720-11-10 09:48 G	46909175.86	46909175.91	46909175.97	0.0088	0.0081
Mercury	123721-02-06 11:29 G	46909263.98	46909263.98	46909264.01	0.0088	0.0088
Jupiter	123723-12-07 12:26 G	46910297.74	46910298.02	46910298.42	0.0088	0.0068
Mars	123739-10-20 14:36 G	46916093.92	46916094.11	46916094.33	0.0088	0.0061
Mars	123741-09-13 03:05 G	46916787.42	46916787.63	46916787.90	0.0088	0.0050
Venus	123787-11-07 12:26 G	46933643.94	46933644.02	46933644.13	0.0088	0.0080
Venus	123788-06-20 01:53 G	46933869.47	46933869.58	46933869.74	0.0088	0.0071
Venus	123789-01-31 16:02 G	46934095.03	46934095.17	46934095.35	0.0088	0.0061
Venus	123789-09-14 06:12 G	46934320.58	46934320.76	46934320.95	0.0088	0.0051
Venus	123790-04-27 20:07 G	46934546.14	46934546.34	46934546.54	0.0088	0.0041
Venus	123790-12-09 10:02 G	46934771.71	46934771.92	46934772.13	0.0088	0.0031
Earth	123791-05-02 09:05 G	46934915.88	46934915.88	46934915.91	0.0089	0.0088
Venus	123791-07-22 23:29 G	46934997.27	46934997.48	46934997.71	0.0089	0.0022
Venus	123792-03-04 13:38 G	46935222.85	46935223.07	46935223.30	0.0089	0.0011
Earth	123792-05-03 21:48 G	46935283.25	46935283.41	46935283.60	0.0089	0.0066
Moon	123792-05-04 01:24 G	46935283.37	46935283.56	46935283.75	0.0089	0.0061 *
Venus	123792-10-16 03:33 G	46935448.42	46935448.65	46935448.87	0.0089	0.0002
Moon	123793-05-06 07:53 G	46935650.64	46935650.83	46935651.07	0.0089	0.0048
Earth	123793-05-06 10:45 G	46935650.74	46935650.95	46935651.19	0.0089	0.0043 *
Venus	123793-05-29 17:14 G	46935674.00	46935674.22	46935674.44	0.0089	0.0008
Venus	123794-01-10 06:41 G	46935899.57	46935899.78	46935900.01	0.0089	0.0019
Earth	123794-05-08 23:43 G	46936018.24	46936018.49	46936018.75	0.0089	0.0020
Moon	123794-05-09 01:09 G	46936018.29	46936018.55	46936018.82	0.0089	0.0015 *
Venus	123794-08-23 20:50 G	46936125.16	46936125.37	46936125.58	0.0089	0.0028
Venus	123795-04-06 10:31 G	46936350.74	46936350.94	46936351.15	0.0089	0.0038
Earth	123795-05-11 12:41 G	46936385.77	46936386.03	46936386.29	0.0089	0.0004
Moon	123795-05-11 12:55 G	46936385.79	46936386.04	46936386.29	0.0089	0.0001 *
Venus	123795-11-17 23:57 G	46936576.33	46936576.50	46936576.70	0.0089	0.0048
Moon	123796-05-13 00:12 G	46936753.27	46936753.51	46936753.77	0.0089	0.0031

Earth	123796-05-13 01:09 G	46936753.32	46936753.55	46936753.82	0.0089	0.0027 *
Venus	123796-06-30 13:38 G	46936801.92	46936802.07	46936802.26	0.0089	0.0058
Venus	123797-02-11 03:19 G	46937027.52	46937027.64	46937027.81	0.0089	0.0068
Earth	123797-05-15 13:53 G	46937120.88	46937121.08	46937121.31	0.0089	0.0050
Moon	123797-05-15 16:45 G	46937120.99	46937121.20	46937121.43	0.0089	0.0045 *
Venus	123797-09-24 17:29 G	46937253.13	46937253.23	46937253.35	0.0089	0.0077
Venus	123798-05-08 06:55 G	46937478.77	46937478.79	46937478.86	0.0089	0.0087
Moon	123798-05-17 23:14 G	46937488.36	46937488.47	46937488.62	0.0089	0.0077
Earth	123798-05-18 02:36 G	46937488.49	46937488.61	46937488.78	0.0089	0.0073 *
Mercury	123798-12-24 06:41 G	46937708.75	46937708.78	46937708.82	0.0089	0.0086
Mercury	123799-03-22 09:05 G	46937796.81	46937796.88	46937796.96	0.0089	0.0078
Mercury	123799-06-18 11:14 G	46937884.89	46937884.97	46937885.08	0.0089	0.0071
Mercury	123799-09-14 13:38 G	46937972.97	46937973.07	46937973.20	0.0089	0.0063
Mercury	123799-12-11 16:02 G	46938061.06	46938061.17	46938061.32	0.0089	0.0055
Mercury	123800-03-09 18:41 G	46938149.15	46938149.28	46938149.43	0.0089	0.0047
Mercury	123800-06-05 21:05 G	46938237.24	46938237.38	46938237.54	0.0089	0.0039
Mercury	123800-09-01 23:43 G	46938325.34	46938325.49	46938325.65	0.0089	0.0031
Mercury	123800-11-29 02:07 G	46938413.44	46938413.59	46938413.76	0.0089	0.0023
Mercury	123801-02-25 04:45 G	46938501.54	46938501.70	46938501.86	0.0089	0.0015
Mercury	123801-05-24 07:09 G	46938589.64	46938589.80	46938589.97	0.0089	0.0007
Mercury	123801-08-20 09:48 G	46938677.74	46938677.91	46938678.08	0.0089	0.0002
Mercury	123801-11-16 12:12 G	46938765.85	46938766.01	46938766.18	0.0089	0.0010
Mercury	123802-02-12 14:50 G	46938853.96	46938854.12	46938854.28	0.0089	0.0018
Mercury	123802-05-11 17:14 G	46938942.07	46938942.22	46938942.39	0.0089	0.0027
Mercury	123802-08-07 19:38 G	46939030.18	46939030.32	46939030.49	0.0089	0.0035
Mercury	123802-11-03 22:17 G	46939118.29	46939118.43	46939118.59	0.0089	0.0043
Mercury	123803-01-31 01:09 G	46939206.41	46939206.55	46939206.69	0.0089	0.0051
Mercury	123803-04-29 03:19 G	46939294.53	46939294.64	46939294.78	0.0089	0.0060
Mercury	123803-07-26 06:12 G	46939382.66	46939382.76	46939382.87	0.0089	0.0068
Mercury	123803-10-22 08:21 G	46939470.79	46939470.85	46939470.96	0.0089	0.0077

Mercury	123804-01-18 11:14 G	46939558.94	46939558.97	46939559.03	0.0089	0.0085
Mars	123823-08-05 23:57 G	46946698.16	46946698.50	46946698.84	0.0090	0.0004
Venus	123868-02-17 02:21 G	46962964.59	46962964.60	46962964.66	0.0089	0.0088
Venus	123868-09-29 14:50 G	46963190.03	46963190.12	46963190.23	0.0089	0.0078
Venus	123869-05-13 02:50 G	46963415.51	46963415.62	46963415.77	0.0089	0.0069
Venus	123869-12-24 15:05 G	46963640.99	46963641.13	46963641.31	0.0089	0.0060
Venus	123870-08-07 03:33 G	46963866.48	46963866.65	46963866.84	0.0089	0.0050
Venus	123871-03-20 15:33 G	46964091.98	46964092.15	46964092.36	0.0089	0.0041
Venus	123871-11-01 04:02 G	46964317.47	46964317.67	46964317.87	0.0089	0.0031
Venus	123872-06-13 16:02 G	46964542.97	46964543.17	46964543.39	0.0089	0.0022
Earth	123872-10-29 18:26 G	46964681.16	46964681.27	46964681.42	0.0089	0.0076
Moon	123872-10-29 20:50 G	46964681.23	46964681.37	46964681.51	0.0089	0.0074 *
Venus	123873-01-25 04:17 G	46964768.47	46964768.68	46964768.90	0.0089	0.0012
Venus	123873-09-07 16:45 G	46964993.98	46964994.20	46964994.42	0.0089	0.0003
Earth	123873-11-01 04:31 G	46965048.51	46965048.69	46965048.92	0.0089	0.0054
Moon	123873-11-01 04:45 G	46965048.52	46965048.70	46965048.90	0.0089	0.0056 *
Venus	123874-04-21 05:00 G	46965219.49	46965219.71	46965219.92	0.0089	0.0007
Moon	123874-11-03 14:07 G	46965415.84	46965416.09	46965416.34	0.0089	0.0028
Earth	123874-11-03 15:19 G	46965415.91	46965416.14	46965416.39	0.0089	0.0031 *
Venus	123874-12-02 17:00 G	46965445.00	46965445.21	46965445.43	0.0089	0.0016
Venus	123875-07-16 05:14 G	46965670.52	46965670.72	46965670.93	0.0089	0.0026
Earth	123875-11-06 01:53 G	46965783.33	46965783.58	46965783.84	0.0089	0.0009
Moon	123875-11-06 04:02 G	46965783.43	46965783.67	46965783.92	0.0089	0.0011 *
Venus	123876-02-26 17:14 G	46965896.04	46965896.22	46965896.44	0.0089	0.0036
Venus	123876-10-09 05:43 G	46966121.57	46966121.74	46966121.94	0.0089	0.0045
Moon	123876-11-07 08:50 G	46966150.63	46966150.87	46966151.14	0.0089	0.0018
Earth	123876-11-07 12:26 G	46966150.78	46966151.02	46966151.28	0.0089	0.0015 *
Venus	123877-05-22 17:43 G	46966347.09	46966347.24	46966347.43	0.0089	0.0055
Earth	123877-11-09 23:00 G	46966518.24	46966518.46	46966518.70	0.0089	0.0037
Moon	123877-11-10 02:21 G	46966518.38	46966518.60	46966518.85	0.0089	0.0034 *

Venus	123878-01-03 06:12 G	46966572.63	46966572.76	46966572.92	0.0089	0.0064
Venus	123878-08-16 18:26 G	46966798.17	46966798.27	46966798.41	0.0089	0.0074
Moon	123878-11-12 06:12 G	46966885.59	46966885.76	46966885.95	0.0089	0.0062
Earth	123878-11-12 09:05 G	46966885.72	46966885.88	46966886.10	0.0089	0.0060 *
Venus	123879-03-30 06:41 G	46967023.73	46967023.78	46967023.88	0.0089	0.0083
Mercury	123879-10-25 12:26 G	46967233.02	46967233.02	46967233.03	0.0089	0.0088
Earth	123879-11-14 19:53 G	46967253.25	46967253.33	46967253.44	0.0089	0.0082
Moon	123879-11-14 22:31 G	46967253.34	46967253.44	46967253.58	0.0089	0.0079 *
Mercury	123880-01-21 14:21 G	46967321.05	46967321.10	46967321.17	0.0089	0.0081
Mercury	123880-04-18 16:02 G	46967409.11	46967409.17	46967409.27	0.0089	0.0074
Mercury	123880-07-15 18:26 G	46967497.17	46967497.27	46967497.37	0.0089	0.0066
Mercury	123880-10-11 20:07 G	46967585.24	46967585.34	46967585.46	0.0089	0.0059
Mercury	123881-01-07 22:02 G	46967673.31	46967673.42	46967673.56	0.0088	0.0051
Mercury	123881-04-06 00:12 G	46967761.38	46967761.51	46967761.64	0.0088	0.0044
Mercury	123881-07-03 01:53 G	46967849.45	46967849.58	46967849.73	0.0088	0.0037
Mercury	123881-09-29 03:48 G	46967937.53	46967937.66	46967937.81	0.0088	0.0030
Mercury	123881-12-26 05:57 G	46968025.60	46968025.75	46968025.90	0.0088	0.0022
Mercury	123882-03-24 07:53 G	46968113.68	46968113.83	46968113.98	0.0088	0.0014
Mercury	123882-06-20 09:48 G	46968201.76	46968201.91	46968202.06	0.0088	0.0007
Mercury	123882-09-16 11:43 G	46968289.84	46968289.99	46968290.14	0.0088	0.0003
Mercury	123882-12-13 13:24 G	46968377.91	46968378.06	46968378.21	0.0088	0.0007
Mercury	123883-03-11 15:19 G	46968465.99	46968466.14	46968466.29	0.0088	0.0014
Mercury	123883-06-07 17:00 G	46968554.07	46968554.21	46968554.36	0.0088	0.0022
Mercury	123883-09-03 18:55 G	46968642.15	46968642.29	46968642.43	0.0088	0.0029
Mercury	123883-11-30 20:36 G	46968730.23	46968730.36	46968730.50	0.0088	0.0036
Mercury	123884-02-26 22:31 G	46968818.31	46968818.44	46968818.57	0.0088	0.0043
Mercury	123884-05-25 00:12 G	46968906.40	46968906.51	46968906.64	0.0088	0.0050
Mercury	123884-08-21 02:07 G	46968994.48	46968994.59	46968994.71	0.0088	0.0057
Mercury	123884-11-17 03:48 G	46969082.57	46969082.66	46969082.77	0.0088	0.0064
Mercury	123885-02-13 05:29 G	46969170.65	46969170.73	46969170.83	0.0088	0.0071



Mercury	123885-05-12 07:24 G	46969258.75	46969258.81	46969258.88	0.0088	0.0077
Mercury	123885-08-08 09:05 G	46969346.85	46969346.88	46969346.93	0.0088	0.0084
Mars	123905-04-30 16:02 G	46976550.88	46976551.17	46976551.46	0.0088	0.0002
Venus	123952-02-10 21:33 G	46993638.34	46993638.40	46993638.51	0.0088	0.0082
Venus	123952-09-23 11:43 G	46993863.87	46993863.99	46993864.13	0.0088	0.0072
Venus	123953-05-07 01:38 G	46994089.42	46994089.57	46994089.74	0.0088	0.0062
Venus	123953-12-18 15:48 G	46994314.97	46994315.16	46994315.34	0.0088	0.0052
Venus	123954-08-01 05:14 G	46994540.54	46994540.72	46994540.93	0.0088	0.0042
Venus	123955-03-14 19:09 G	46994766.11	46994766.30	46994766.53	0.0088	0.0033
Venus	123955-10-26 09:19 G	46994991.68	46994991.89	46994992.11	0.0088	0.0022
Earth	123956-05-05 05:43 G	46995183.63	46995183.74	46995183.90	0.0089	0.0076
Moon	123956-05-05 08:36 G	46995183.72	46995183.86	46995184.03	0.0089	0.0071 *
Venus	123956-06-07 23:14 G	46995217.25	46995217.47	46995217.69	0.0089	0.0013
Venus	123957-01-19 13:09 G	46995442.83	46995443.05	46995443.28	0.0089	0.0003
Moon	123957-05-07 15:33 G	46995550.96	46995551.15	46995551.37	0.0089	0.0057
Earth	123957-05-07 18:55 G	46995551.10	46995551.29	46995551.52	0.0089	0.0053 *
Venus	123957-09-02 02:50 G	46995668.40	46995668.62	46995668.85	0.0089	0.0008
Venus	123958-04-15 16:31 G	46995893.98	46995894.19	46995894.42	0.0089	0.0018
Earth	123958-05-10 07:53 G	46995918.60	46995918.83	46995919.09	0.0089	0.0030
Moon	123958-05-10 11:29 G	46995918.74	46995918.98	46995919.24	0.0089	0.0025 *
Venus	123958-11-27 06:26 G	46996119.56	46996119.77	46996119.99	0.0089	0.0027
Moon	123959-05-12 17:29 G	46996285.98	46996286.23	46996286.49	0.0089	0.0011
Earth	123959-05-12 21:05 G	46996286.12	46996286.38	46996286.64	0.0089	0.0006 *
Venus	123959-07-10 20:07 G	46996345.15	46996345.34	46996345.55	0.0089	0.0037
Venus	123960-02-21 10:02 G	46996570.74	46996570.92	46996571.12	0.0089	0.0047
Earth	123960-05-14 09:33 G	46996653.65	46996653.90	46996654.17	0.0089	0.0017
Moon	123960-05-14 12:12 G	46996653.76	46996654.01	46996654.28	0.0089	0.0021 *
Venus	123960-10-03 23:29 G	46996796.33	46996796.48	46996796.67	0.0089	0.0057
Moon	123961-05-16 20:21 G	46997021.14	46997021.35	46997021.60	0.0089	0.0036
Earth	123961-05-16 22:17 G	46997021.21	46997021.43	46997021.68	0.0089	0.0040 *

Venus	123961-05-17 13:38 G	46997021.93	46997022.07	46997022.22	0.0089	0.0066
Venus	123961-12-29 03:05 G	46997247.53	46997247.63	46997247.76	0.0089	0.0076
Earth	123962-05-19 11:00 G	46997388.80	46997388.96	46997389.16	0.0089	0.0063
Moon	123962-05-19 11:29 G	46997388.81	46997388.98	46997389.16	0.0089	0.0067 *
Venus	123962-08-11 16:31 G	46997473.16	46997473.19	46997473.28	0.0089	0.0086
Earth	123963-05-21 23:29 G	46997756.44	46997756.48	46997756.57	0.0089	0.0086
Moon	123963-05-22 00:55 G	46997756.47	46997756.54	46997756.66	0.0089	0.0082 *
Mercury	123963-09-22 05:29 G	46997879.69	46997879.73	46997879.81	0.0089	0.0082
Mercury	123963-12-19 08:07 G	46997967.76	46997967.84	46997967.94	0.0089	0.0074
Mercury	123964-03-16 10:31 G	46998055.84	46998055.94	46998056.06	0.0089	0.0066
Mercury	123964-06-12 13:09 G	46998143.92	46998144.05	46998144.17	0.0089	0.0058
Mercury	123964-09-08 15:33 G	46998232.01	46998232.15	46998232.28	0.0089	0.0050
Mercury	123964-12-05 17:43 G	46998320.10	46998320.24	46998320.39	0.0089	0.0043
Mercury	123965-03-03 20:07 G	46998408.20	46998408.34	46998408.50	0.0089	0.0035
Mercury	123965-05-30 22:45 G	46998496.30	46998496.45	46998496.61	0.0089	0.0026
Mercury	123965-08-27 01:09 G	46998584.39	46998584.55	46998584.72	0.0089	0.0019
Mercury	123965-11-23 03:48 G	46998672.49	46998672.66	46998672.83	0.0089	0.0010
Mercury	123966-02-19 06:12 G	46998760.60	46998760.76	46998760.93	0.0089	0.0003
Mercury	123966-05-18 08:50 G	46998848.70	46998848.87	46998849.04	0.0089	0.0006
Mercury	123966-08-14 11:14 G	46998936.81	46998936.97	46998937.14	0.0089	0.0014
Mercury	123966-11-10 13:53 G	46999024.92	46999025.08	46999025.24	0.0089	0.0022
Mercury	123967-02-06 16:17 G	46999113.03	46999113.18	46999113.34	0.0089	0.0031
Mercury	123967-05-05 18:41 G	46999201.14	46999201.28	46999201.44	0.0089	0.0039
Mercury	123967-08-01 21:19 G	46999289.26	46999289.39	46999289.54	0.0089	0.0047
Mercury	123967-10-28 23:43 G	46999377.37	46999377.49	46999377.64	0.0089	0.0056
Mercury	123968-01-25 02:21 G	46999465.50	46999465.60	46999465.73	0.0089	0.0064
Mercury	123968-04-22 05:00 G	46999553.62	46999553.71	46999553.82	0.0089	0.0072
Mercury	123968-07-19 07:24 G	46999641.76	46999641.81	46999641.90	0.0089	0.0081
Mars	123987-03-20 10:17 G	47006459.69	47006459.93	47006460.17	0.0090	0.0063
Mars	123989-02-13 18:41 G	47007156.14	47007156.28	47007156.49	0.0090	0.0077

# 125TH MILLENNIUM CE

This is a list of transits visible from Neptune in the 125th millennium CE.

PLANET	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Venus	124033-01-02 01:53	G	47023184.51	47023184.58	47023184.70	0.0089	0.0080	
Venus	124033-08-15 14:36	G	47023409.99	47023410.11	47023410.25	0.0089	0.0070	
Venus	124034-03-29 02:36	G	47023635.47	47023635.61	47023635.78	0.0089	0.0061	
Venus	124034-11-09 15:05	G	47023860.96	47023861.13	47023861.31	0.0089	0.0051	
Venus	124035-06-23 03:05	G	47024086.45	47024086.63	47024086.83	0.0089	0.0042	
Venus	124036-02-03 15:05	G	47024311.95	47024312.13	47024312.35	0.0089	0.0033	
Venus	124036-09-16 03:33	G	47024537.45	47024537.65	47024537.86	0.0089	0.0023	
Earth	124036-10-30 04:31	G	47024581.63	47024581.69	47024581.77	0.0089	0.0085	
Moon	124036-10-30 07:53	G	47024581.76	47024581.83	47024581.93	0.0089	0.0083	*
Venus	124037-04-29 15:48	G	47024762.95	47024763.16	47024763.38	0.0089	0.0014	
Moon	124037-11-01 11:00	G	47024948.81	47024948.96	47024949.16	0.0089	0.0065	
Earth	124037-11-01 14:36	G	47024948.95	47024949.11	47024949.31	0.0089	0.0063	*
Venus	124037-12-11 04:02	G	47024988.45	47024988.67	47024988.88	0.0089	0.0004	
Venus	124038-07-24 16:17	G	47025213.96	47025214.18	47025214.39	0.0089	0.0006	
Earth	124038-11-04 00:55	G	47025316.33	47025316.54	47025316.78	0.0089	0.0041	
Moon	124038-11-04 03:48	G	47025316.45	47025316.66	47025316.91	0.0089	0.0039	*
Venus	124039-03-07 04:17	G	47025439.47	47025439.68	47025439.90	0.0089	0.0015	
Venus	124039-10-18 16:17	G	47025664.99	47025665.18	47025665.40	0.0089	0.0025	

Moon	124039-11-06 09:48 G	47025683.68	47025683.91	47025684.17	0.0089	0.0021
Earth	124039-11-06 11:29 G	47025683.74	47025683.98	47025684.24	0.0089	0.0018 *
Venus	124040-05-31 04:31 G	47025890.50	47025890.69	47025890.90	0.0089	0.0034
Earth	124040-11-07 22:02 G	47026051.16	47026051.42	47026051.67	0.0089	0.0005
Moon	124040-11-07 22:45 G	47026051.18	47026051.45	47026051.71	0.0089	0.0006 *
Venus	124041-01-11 16:31 G	47026116.02	47026116.19	47026116.40	0.0089	0.0044
Venus	124041-08-25 05:14 G	47026341.55	47026341.72	47026341.90	0.0089	0.0053
Earth	124041-11-10 08:07 G	47026418.60	47026418.84	47026419.09	0.0089	0.0027
Moon	124041-11-10 09:05 G	47026418.65	47026418.88	47026419.13	0.0089	0.0025 *
Venus	124042-04-07 17:00 G	47026567.08	47026567.21	47026567.39	0.0089	0.0063
Moon	124042-11-12 15:48 G	47026785.97	47026786.16	47026786.39	0.0089	0.0053
Earth	124042-11-12 18:26 G	47026786.08	47026786.27	47026786.50	0.0089	0.0050 *
Venus	124042-11-19 05:29 G	47026792.62	47026792.73	47026792.87	0.0089	0.0072
Venus	124043-07-02 17:57 G	47027018.17	47027018.25	47027018.34	0.0089	0.0081
Earth	124043-11-15 05:14 G	47027153.58	47027153.72	47027153.88	0.0089	0.0072
Moon	124043-11-15 08:07 G	47027153.70	47027153.84	47027154.01	0.0089	0.0070 *
Mercury	124044-07-22 11:29 G	47027403.95	47027403.98	47027404.03	0.0089	0.0085
Mercury	124044-10-18 13:24 G	47027492.00	47027492.06	47027492.15	0.0089	0.0078
Mercury	124045-01-14 15:33 G	47027580.06	47027580.15	47027580.25	0.0089	0.0070
Mercury	124045-04-12 17:29 G	47027668.13	47027668.23	47027668.35	0.0089	0.0062
Mercury	124045-07-09 19:38 G	47027756.20	47027756.32	47027756.44	0.0089	0.0055
Mercury	124045-10-05 21:19 G	47027844.27	47027844.39	47027844.53	0.0088	0.0048
Mercury	124046-01-01 23:14 G	47027932.35	47027932.47	47027932.62	0.0088	0.0041
Mercury	124046-03-31 01:24 G	47028020.42	47028020.56	47028020.70	0.0088	0.0033
Mercury	124046-06-27 03:19 G	47028108.50	47028108.64	47028108.79	0.0088	0.0025
Mercury	124046-09-23 05:14 G	47028196.57	47028196.72	47028196.87	0.0088	0.0018
Mercury	124046-12-20 07:09 G	47028284.65	47028284.80	47028284.95	0.0088	0.0011
Mercury	124047-03-18 09:05 G	47028372.73	47028372.88	47028373.03	0.0088	0.0004
Mercury	124047-06-14 10:45 G	47028460.81	47028460.95	47028461.11	0.0088	0.0005
Mercury	124047-09-10 12:41 G	47028548.88	47028549.03	47028549.18	0.0088	0.0011

Mercury	124047-12-07 14:36 G	47028636.96	47028637.11	47028637.26	0.0088	0.0018
Mercury	124048-03-04 16:17 G	47028725.04	47028725.18	47028725.33	0.0088	0.0025
Mercury	124048-05-31 18:12 G	47028813.12	47028813.26	47028813.40	0.0088	0.0032
Mercury	124048-08-27 19:53 G	47028901.21	47028901.33	47028901.47	0.0088	0.0040
Mercury	124048-11-23 21:48 G	47028989.29	47028989.41	47028989.54	0.0088	0.0046
Mercury	124049-02-19 23:29 G	47029077.37	47029077.48	47029077.61	0.0088	0.0054
Mercury	124049-05-19 01:09 G	47029165.46	47029165.55	47029165.67	0.0088	0.0061
Mercury	124049-08-15 03:05 G	47029253.54	47029253.63	47029253.73	0.0088	0.0067
Mercury	124049-11-11 04:45 G	47029341.64	47029341.70	47029341.79	0.0088	0.0075
Mercury	124050-02-07 06:26 G	47029429.73	47029429.77	47029429.84	0.0088	0.0082
Mercury	124050-05-06 08:36 G	47029517.85	47029517.86	47029517.87	0.0088	0.0088
Uranus	124067-11-21 21:19 G	47035925.85	47035926.39	47035927.08	0.0088	0.0061
Mars	124068-12-14 06:12 G	47036314.54	47036314.76	47036315.04	0.0088	0.0044
Mars	124070-11-07 19:09 G	47037008.13	47037008.30	47037008.50	0.0088	0.0067
Venus	124116-05-15 07:09 G	47053632.74	47053632.80	47053632.89	0.0088	0.0083
Venus	124116-12-26 20:50 G	47053858.27	47053858.37	47053858.52	0.0088	0.0073
Venus	124117-08-09 10:45 G	47054083.82	47054083.95	47054084.13	0.0088	0.0064
Venus	124118-03-23 00:55 G	47054309.37	47054309.54	47054309.73	0.0088	0.0054
Venus	124118-11-03 14:50 G	47054534.93	47054535.12	47054535.32	0.0088	0.0044
Venus	124119-06-17 04:45 G	47054760.50	47054760.70	47054760.91	0.0088	0.0034
Venus	124120-01-28 18:55 G	47054986.07	47054986.29	47054986.51	0.0088	0.0024
Moon	124120-05-05 11:29 G	47055083.90	47055083.98	47055084.11	0.0088	0.0081
Earth	124120-05-05 13:53 G	47055084.01	47055084.08	47055084.16	0.0088	0.0085 *
Venus	124120-09-10 08:36 G	47055211.65	47055211.86	47055212.09	0.0089	0.0014
Venus	124121-04-23 22:31 G	47055437.22	47055437.44	47055437.67	0.0089	0.0005
Earth	124121-05-08 03:05 G	47055451.45	47055451.63	47055451.82	0.0089	0.0062
Moon	124121-05-08 03:05 G	47055451.47	47055451.63	47055451.82	0.0089	0.0067 *
Venus	124121-12-05 12:26 G	47055662.80	47055663.02	47055663.25	0.0089	0.0006
Earth	124122-05-10 15:48 G	47055818.94	47055819.16	47055819.41	0.0089	0.0040
Moon	124122-05-10 17:14 G	47055818.99	47055819.22	47055819.46	0.0089	0.0035 *

Venus	124122-07-19 02:07 G	47055888.38	47055888.59	47055888.82	0.0089	0.0016
Venus	124123-03-01 16:02 G	47056113.97	47056114.17	47056114.40	0.0089	0.0026
Moon	124123-05-13 02:50 G	47056186.37	47056186.62	47056186.90	0.0089	0.0021
Earth	124123-05-13 05:14 G	47056186.46	47056186.72	47056186.97	0.0089	0.0016 *
Venus	124123-10-13 05:57 G	47056339.55	47056339.75	47056339.96	0.0089	0.0036
Earth	124124-05-14 17:57 G	47056553.99	47056554.25	47056554.51	0.0089	0.0007
Moon	124124-05-14 21:19 G	47056554.14	47056554.39	47056554.64	0.0089	0.0012 *
Venus	124124-05-25 19:24 G	47056565.14	47056565.31	47056565.52	0.0089	0.0046
Venus	124125-01-06 09:33 G	47056790.73	47056790.90	47056791.08	0.0089	0.0055
Moon	124125-05-17 03:05 G	47056921.40	47056921.63	47056921.90	0.0089	0.0026
Earth	124125-05-17 06:55 G	47056921.55	47056921.79	47056922.04	0.0089	0.0030 *
Venus	124125-08-19 23:14 G	47057016.33	47057016.47	47057016.63	0.0089	0.0065
Venus	124126-04-02 12:55 G	47057241.94	47057242.04	47057242.18	0.0089	0.0075
Earth	124126-05-19 19:24 G	47057289.12	47057289.31	47057289.53	0.0089	0.0053
Moon	124126-05-19 22:45 G	47057289.28	47057289.45	47057289.67	0.0089	0.0058 *
Venus	124126-11-14 02:21 G	47057467.56	47057467.60	47057467.70	0.0089	0.0085
Moon	124127-05-22 05:14 G	47057656.59	47057656.72	47057656.89	0.0089	0.0071
Earth	124127-05-22 08:07 G	47057656.73	47057656.84	47057657.00	0.0089	0.0076 *
Mercury	124128-03-23 02:36 G	47057962.57	47057962.61	47057962.66	0.0089	0.0085
Mercury	124128-06-19 05:00 G	47058050.64	47058050.71	47058050.79	0.0089	0.0077
Mercury	124128-09-15 07:09 G	47058138.71	47058138.80	47058138.91	0.0089	0.0070
Mercury	124128-12-12 09:33 G	47058226.79	47058226.90	47058227.03	0.0089	0.0062
Mercury	124129-03-10 11:57 G	47058314.88	47058315.00	47058315.14	0.0089	0.0054
Mercury	124129-06-06 14:21 G	47058402.97	47058403.10	47058403.25	0.0089	0.0046
Mercury	124129-09-02 17:00 G	47058491.06	47058491.21	47058491.36	0.0089	0.0038
Mercury	124129-11-29 19:24 G	47058579.16	47058579.31	47058579.47	0.0089	0.0030
Mercury	124130-02-25 21:48 G	47058667.26	47058667.41	47058667.58	0.0089	0.0022
Mercury	124130-05-25 00:26 G	47058755.36	47058755.52	47058755.68	0.0089	0.0014
Mercury	124130-08-21 02:50 G	47058843.46	47058843.62	47058843.79	0.0089	0.0006
Mercury	124130-11-17 05:29 G	47058931.56	47058931.73	47058931.89	0.0089	0.0003

Mercury	124131-02-13 07:53 G	47059019.66	47059019.83	47059020.00	0.0089	0.0010
Mercury	124131-05-12 10:17 G	47059107.77	47059107.93	47059108.10	0.0089	0.0019
Mercury	124131-08-08 12:41 G	47059195.88	47059196.03	47059196.20	0.0089	0.0027
Mercury	124131-11-04 15:19 G	47059283.99	47059284.14	47059284.30	0.0089	0.0035
Mercury	124132-01-31 17:57 G	47059372.11	47059372.25	47059372.40	0.0089	0.0043
Mercury	124132-04-28 20:21 G	47059460.22	47059460.35	47059460.50	0.0089	0.0052
Mercury	124132-07-25 22:45 G	47059548.34	47059548.45	47059548.59	0.0089	0.0060
Mercury	124132-10-22 01:38 G	47059636.47	47059636.57	47059636.68	0.0089	0.0068
Mercury	124133-01-18 04:02 G	47059724.60	47059724.67	47059724.77	0.0089	0.0077
Mercury	124133-04-16 06:41 G	47059812.74	47059812.78	47059812.84	0.0089	0.0085
Mars	124152-09-28 06:12 G	47066917.44	47066917.76	47066918.11	0.0090	0.0019
Venus	124197-04-06 13:38 G	47083178.99	47083179.07	47083179.16	0.0089	0.0081
Venus	124197-11-18 01:38 G	47083404.46	47083404.57	47083404.71	0.0089	0.0072
Venus	124198-07-01 14:07 G	47083629.95	47083630.09	47083630.25	0.0089	0.0062
Venus	124199-02-12 02:07 G	47083855.44	47083855.59	47083855.78	0.0089	0.0053
Venus	124199-09-25 14:36 G	47084080.93	47084081.11	47084081.31	0.0089	0.0043
Venus	124200-05-09 02:36 G	47084306.43	47084306.61	47084306.82	0.0089	0.0034
Venus	124200-12-20 15:05 G	47084531.93	47084532.13	47084532.34	0.0089	0.0024
Venus	124201-08-03 03:19 G	47084757.43	47084757.64	47084757.86	0.0089	0.0015
Moon	124201-11-02 22:45 G	47084849.33	47084849.45	47084849.61	0.0089	0.0074
Earth	124201-11-03 01:09 G	47084849.41	47084849.55	47084849.70	0.0089	0.0072 *
Venus	124202-03-16 15:33 G	47084982.94	47084983.15	47084983.37	0.0089	0.0005
Venus	124202-10-28 03:48 G	47085208.44	47085208.66	47085208.87	0.0089	0.0004
Earth	124202-11-05 11:14 G	47085216.78	47085216.97	47085217.20	0.0089	0.0050
Moon	124202-11-05 13:53 G	47085216.89	47085217.08	47085217.30	0.0089	0.0049 *
Venus	124203-06-10 15:48 G	47085433.95	47085434.16	47085434.38	0.0089	0.0014
Moon	124203-11-07 17:57 G	47085584.03	47085584.25	47085584.51	0.0089	0.0030
Earth	124203-11-07 21:33 G	47085584.18	47085584.40	47085584.66	0.0089	0.0028 *
Venus	124204-01-22 03:48 G	47085659.46	47085659.66	47085659.88	0.0089	0.0024
Venus	124204-09-03 16:17 G	47085884.99	47085885.18	47085885.39	0.0089	0.0033

Earth	124204-11-09 08:07 G	47085951.59	47085951.84	47085952.09	0.0089	0.0005
Moon	124204-11-09 11:29 G	47085951.73	47085951.98	47085952.24	0.0089	0.0003 *
Venus	124205-04-17 04:17 G	47086110.50	47086110.68	47086110.88	0.0089	0.0043
Moon	124205-11-11 15:33 G	47086318.90	47086319.15	47086319.40	0.0089	0.0016
Earth	124205-11-11 18:12 G	47086319.03	47086319.26	47086319.53	0.0089	0.0018 *
Venus	124205-11-28 16:31 G	47086336.03	47086336.19	47086336.37	0.0089	0.0052
Venus	124206-07-12 04:31 G	47086561.55	47086561.69	47086561.86	0.0089	0.0062
Earth	124206-11-14 04:45 G	47086686.48	47086686.70	47086686.93	0.0089	0.0040
Moon	124206-11-14 06:41 G	47086686.56	47086686.78	47086687.03	0.0089	0.0042 *
Venus	124207-02-22 16:45 G	47086787.09	47086787.20	47086787.35	0.0089	0.0071
Venus	124207-10-06 05:14 G	47087012.64	47087012.72	47087012.82	0.0089	0.0080
Moon	124207-11-16 14:36 G	47087053.95	47087054.11	47087054.31	0.0089	0.0061
Earth	124207-11-16 14:50 G	47087053.96	47087054.12	47087054.32	0.0089	0.0063 *
Moon	124208-11-18 00:26 G	47087421.50	47087421.52	47087421.61	0.0089	0.0087
Earth	124208-11-18 01:24 G	47087421.51	47087421.56	47087421.65	0.0089	0.0085 *
Mercury	124209-01-22 08:50 G	47087486.87	47087486.87	47087486.89	0.0089	0.0088
Mercury	124209-04-20 11:00 G	47087574.90	47087574.96	47087575.02	0.0089	0.0081
Mercury	124209-07-17 12:41 G	47087662.96	47087663.03	47087663.13	0.0089	0.0074
Mercury	124209-10-13 14:50 G	47087751.03	47087751.12	47087751.23	0.0089	0.0066
Mercury	124210-01-09 16:45 G	47087839.10	47087839.20	47087839.33	0.0088	0.0059
Mercury	124210-04-07 18:55 G	47087927.17	47087927.29	47087927.42	0.0088	0.0051
Mercury	124210-07-04 20:50 G	47088015.24	47088015.37	47088015.51	0.0088	0.0043
Mercury	124210-09-30 22:45 G	47088103.32	47088103.45	47088103.60	0.0088	0.0036
Mercury	124210-12-28 00:41 G	47088191.39	47088191.53	47088191.68	0.0088	0.0029
Mercury	124211-03-26 02:36 G	47088279.47	47088279.61	47088279.76	0.0088	0.0022
Mercury	124211-06-22 04:31 G	47088367.55	47088367.69	47088367.85	0.0088	0.0014
Mercury	124211-09-18 06:26 G	47088455.63	47088455.77	47088455.93	0.0088	0.0007
Mercury	124211-12-15 08:21 G	47088543.70	47088543.85	47088544.01	0.0088	0.0003
Mercury	124212-03-12 10:17 G	47088631.78	47088631.93	47088632.08	0.0088	0.0008
Mercury	124212-06-08 12:12 G	47088719.86	47088720.01	47088720.16	0.0088	0.0015



Mercury	124212-09-04 13:53 G	47088807.94	47088808.08	47088808.23	0.0088	0.0022
Mercury	124212-12-01 15:48 G	47088896.02	47088896.16	47088896.31	0.0088	0.0029
Mercury	124213-02-27 17:29 G	47088984.11	47088984.23	47088984.38	0.0088	0.0037
Mercury	124213-05-26 19:24 G	47089072.19	47089072.31	47089072.45	0.0088	0.0044
Mercury	124213-08-22 21:19 G	47089160.27	47089160.39	47089160.51	0.0088	0.0050
Mercury	124213-11-18 23:00 G	47089248.36	47089248.46	47089248.58	0.0088	0.0058
Mercury	124214-02-15 00:55 G	47089336.44	47089336.54	47089336.64	0.0088	0.0064
Mercury	124214-05-14 02:36 G	47089424.53	47089424.61	47089424.70	0.0088	0.0072
Mercury	124214-08-10 04:17 G	47089512.63	47089512.68	47089512.76	0.0088	0.0079
Mercury	124214-11-06 05:57 G	47089600.73	47089600.75	47089600.80	0.0088	0.0086
Mars	124234-06-25 08:36 G	47096771.58	47096771.86	47096772.15	0.0088	0.0021
Venus	124280-08-17 17:14 G	47113627.17	47113627.22	47113627.30	0.0088	0.0084
Venus	124281-03-31 06:55 G	47113852.69	47113852.79	47113852.93	0.0088	0.0074
Venus	124281-11-11 20:50 G	47114078.23	47114078.37	47114078.54	0.0088	0.0065
Venus	124282-06-25 10:45 G	47114303.79	47114303.95	47114304.14	0.0088	0.0055
Venus	124283-02-06 00:55 G	47114529.35	47114529.54	47114529.74	0.0088	0.0045
Venus	124283-09-19 14:50 G	47114754.92	47114755.12	47114755.33	0.0088	0.0035
Venus	124284-05-02 04:31 G	47114980.48	47114980.69	47114980.92	0.0088	0.0025
Venus	124284-12-13 18:26 G	47115206.05	47115206.27	47115206.50	0.0088	0.0015
Earth	124285-05-08 11:00 G	47115351.83	47115351.96	47115352.14	0.0089	0.0072
Moon	124285-05-08 14:36 G	47115352.00	47115352.11	47115352.27	0.0089	0.0077 *
Venus	124285-07-27 08:21 G	47115431.63	47115431.85	47115432.08	0.0089	0.0006
Venus	124286-03-09 22:31 G	47115657.21	47115657.44	47115657.66	0.0089	0.0005
Moon	124286-05-10 21:33 G	47115719.18	47115719.40	47115719.63	0.0089	0.0044
Earth	124286-05-11 00:26 G	47115719.31	47115719.52	47115719.75	0.0089	0.0049 *
Venus	124286-10-21 12:12 G	47115882.79	47115883.01	47115883.24	0.0089	0.0015
Earth	124287-05-13 13:38 G	47116086.83	47116087.07	47116087.33	0.0089	0.0026
Moon	124287-05-13 15:05 G	47116086.90	47116087.13	47116087.40	0.0089	0.0031 *
Venus	124287-06-04 01:53 G	47116108.38	47116108.58	47116108.81	0.0089	0.0025
Venus	124288-01-15 15:48 G	47116333.96	47116334.16	47116334.38	0.0089	0.0035

Moon	124288-05-15 01:53 G	47116454.33	47116454.58	47116454.83	0.0089	0.0002
Earth	124288-05-15 02:50 G	47116454.36	47116454.62	47116454.88	0.0089	0.0003 *
Venus	124288-08-28 05:29 G	47116559.55	47116559.73	47116559.94	0.0089	0.0045
Venus	124289-04-10 19:38 G	47116785.15	47116785.32	47116785.50	0.0089	0.0054
Moon	124289-05-17 14:50 G	47116821.86	47116822.12	47116822.39	0.0089	0.0016
Earth	124289-05-17 15:33 G	47116821.91	47116822.15	47116822.41	0.0089	0.0021 *
Venus	124289-11-22 09:19 G	47117010.75	47117010.89	47117011.06	0.0089	0.0064
Earth	124290-05-20 04:17 G	47117189.47	47117189.68	47117189.92	0.0089	0.0044
Moon	124290-05-20 06:26 G	47117189.58	47117189.77	47117190.00	0.0089	0.0048 *
Venus	124290-07-05 23:00 G	47117236.35	47117236.46	47117236.60	0.0089	0.0074
Venus	124291-02-16 12:41 G	47117461.98	47117462.03	47117462.13	0.0089	0.0084
Moon	124291-05-22 14:07 G	47117556.92	47117557.09	47117557.30	0.0089	0.0062
Earth	124291-05-22 16:45 G	47117557.06	47117557.20	47117557.40	0.0089	0.0067 *
Mercury	124292-09-21 23:29 G	47118045.47	47118045.48	47118045.50	0.0089	0.0088
Mercury	124292-12-19 01:38 G	47118133.52	47118133.57	47118133.65	0.0089	0.0081
Mercury	124293-03-17 04:02 G	47118221.59	47118221.67	47118221.77	0.0089	0.0073
Mercury	124293-06-13 06:26 G	47118309.67	47118309.77	47118309.89	0.0089	0.0065
Mercury	124293-09-09 09:05 G	47118397.76	47118397.88	47118398.00	0.0089	0.0057
Mercury	124293-12-06 11:29 G	47118485.84	47118485.98	47118486.12	0.0089	0.0049
Mercury	124294-03-04 13:38 G	47118573.93	47118574.07	47118574.22	0.0089	0.0042
Mercury	124294-05-31 16:02 G	47118662.03	47118662.17	47118662.33	0.0089	0.0034
Mercury	124294-08-27 18:26 G	47118750.12	47118750.27	47118750.44	0.0089	0.0026
Mercury	124294-11-23 21:05 G	47118838.22	47118838.38	47118838.54	0.0089	0.0018
Mercury	124295-02-19 23:29 G	47118926.32	47118926.48	47118926.65	0.0089	0.0010
Mercury	124295-05-19 02:07 G	47119014.42	47119014.59	47119014.75	0.0089	0.0002
Mercury	124295-08-15 04:31 G	47119102.52	47119102.69	47119102.86	0.0089	0.0007
Mercury	124295-11-11 06:55 G	47119190.63	47119190.79	47119190.96	0.0089	0.0015
Mercury	124296-02-07 09:19 G	47119278.74	47119278.89	47119279.06	0.0089	0.0023
Mercury	124296-05-05 11:57 G	47119366.85	47119367.00	47119367.16	0.0089	0.0031
Mercury	124296-08-01 14:36 G	47119454.96	47119455.11	47119455.26	0.0089	0.0039

Mercury	124296-10-28 16:45 G	47119543.07	47119543.20	47119543.36	0.0089	0.0048
Mercury	124297-01-24 19:24 G	47119631.19	47119631.31	47119631.45	0.0089	0.0056
Mercury	124297-04-22 22:02 G	47119719.31	47119719.42	47119719.54	0.0089	0.0064
Mercury	124297-07-20 00:26 G	47119807.44	47119807.52	47119807.63	0.0089	0.0073
Mercury	124297-10-16 03:05 G	47119895.58	47119895.63	47119895.71	0.0089	0.0081
Jupiter	124299-04-23 17:14 G	47120449.74	47120450.22	47120450.77	0.0089	0.0038
Mars	124316-05-13 17:43 G	47126678.96	47126679.24	47126679.57	0.0090	0.0040
Venus	124361-07-11 01:24 G	47143173.49	47143173.56	47143173.64	0.0089	0.0082
Venus	124362-02-21 13:24 G	47143398.95	47143399.06	47143399.19	0.0089	0.0073
Venus	124362-10-05 01:24 G	47143624.43	47143624.56	47143624.73	0.0089	0.0064
Venus	124363-05-18 13:53 G	47143849.92	47143850.08	47143850.26	0.0089	0.0054
Venus	124363-12-30 01:53 G	47144075.42	47144075.58	47144075.79	0.0089	0.0045
Venus	124364-08-11 14:36 G	47144300.92	47144301.11	47144301.31	0.0089	0.0035
Venus	124365-03-25 02:36 G	47144526.42	47144526.61	47144526.83	0.0089	0.0026
Earth	124365-11-03 11:57 G	47144749.90	47144750.00	47144750.10	0.0089	0.0081
Moon	124365-11-03 13:09 G	47144749.99	47144750.05	47144750.18	0.0089	0.0083 *
Venus	124365-11-05 14:50 G	47144751.92	47144752.12	47144752.34	0.0089	0.0016
Venus	124366-06-19 03:05 G	47144977.42	47144977.63	47144977.85	0.0089	0.0007
Moon	124366-11-05 22:02 G	47145117.23	47145117.42	47145117.60	0.0089	0.0057
Earth	124366-11-05 22:02 G	47145117.24	47145117.42	47145117.62	0.0089	0.0059 *
Venus	124367-01-30 15:19 G	47145202.93	47145203.14	47145203.36	0.0089	0.0003
Venus	124367-09-13 03:33 G	47145428.44	47145428.65	47145428.87	0.0089	0.0013
Moon	124367-11-08 07:24 G	47145484.58	47145484.81	47145485.06	0.0089	0.0038
Earth	124367-11-08 07:53 G	47145484.62	47145484.83	47145485.08	0.0089	0.0037 *
Venus	124368-04-25 15:48 G	47145653.95	47145654.16	47145654.37	0.0089	0.0022
Earth	124368-11-09 18:26 G	47145852.02	47145852.27	47145852.53	0.0089	0.0014
Moon	124368-11-09 20:36 G	47145852.12	47145852.36	47145852.61	0.0089	0.0013 *
Venus	124368-12-07 03:48 G	47145879.47	47145879.66	47145879.87	0.0089	0.0032
Venus	124369-07-20 15:48 G	47146104.98	47146105.16	47146105.37	0.0089	0.0042
Moon	124369-11-12 01:24 G	47146219.31	47146219.56	47146219.83	0.0089	0.0006

Earth	124369-11-12 05:00 G	47146219.45	47146219.71	47146219.96	0.0089	0.0008	*
Venus	124370-03-03 04:02 G	47146330.51	47146330.67	47146330.86	0.0089	0.0051	
Venus	124370-10-14 16:31 G	47146556.03	47146556.19	47146556.35	0.0089	0.0060	
Earth	124370-11-14 14:50 G	47146586.89	47146587.12	47146587.37	0.0089	0.0031	
Moon	124370-11-14 18:12 G	47146587.04	47146587.26	47146587.51	0.0089	0.0033	*
Venus	124371-05-28 04:17 G	47146781.57	47146781.68	47146781.83	0.0089	0.0070	
Moon	124371-11-16 21:33 G	47146954.21	47146954.40	47146954.63	0.0089	0.0051	
Earth	124371-11-17 01:24 G	47146954.36	47146954.56	47146954.77	0.0089	0.0053	*
Venus	124372-01-08 16:31 G	47147007.11	47147007.19	47147007.30	0.0089	0.0079	
Venus	124372-08-21 04:45 G	47147232.70	47147232.70	47147232.74	0.0089	0.0088	
Earth	124372-11-18 11:00 G	47147321.86	47147321.96	47147322.13	0.0089	0.0076	
Moon	124372-11-18 13:53 G	47147321.97	47147322.08	47147322.22	0.0089	0.0078	*
Mercury	124373-10-20 08:07 G	47147657.81	47147657.84	47147657.90	0.0089	0.0085	
Mercury	124374-01-16 10:17 G	47147745.86	47147745.93	47147746.01	0.0089	0.0077	
Mercury	124374-04-14 12:12 G	47147833.93	47147834.01	47147834.11	0.0089	0.0069	
Mercury	124374-07-11 14:21 G	47147921.99	47147922.10	47147922.21	0.0089	0.0062	
Mercury	124374-10-07 16:02 G	47148010.07	47148010.17	47148010.31	0.0088	0.0055	
Mercury	124375-01-03 18:26 G	47148098.14	47148098.27	47148098.40	0.0088	0.0047	
Mercury	124375-04-01 20:07 G	47148186.21	47148186.34	47148186.49	0.0088	0.0040	
Mercury	124375-06-28 22:02 G	47148274.29	47148274.42	47148274.57	0.0088	0.0033	
Mercury	124375-09-25 00:12 G	47148362.36	47148362.51	47148362.66	0.0088	0.0025	
Mercury	124375-12-22 02:07 G	47148450.44	47148450.59	47148450.74	0.0088	0.0017	
Mercury	124376-03-19 04:02 G	47148538.52	47148538.67	47148538.82	0.0088	0.0010	
Mercury	124376-06-15 05:57 G	47148626.60	47148626.75	47148626.90	0.0088	0.0003	
Mercury	124376-09-11 07:53 G	47148714.68	47148714.83	47148714.98	0.0088	0.0005	
Mercury	124376-12-08 09:48 G	47148802.76	47148802.91	47148803.06	0.0088	0.0012	
Mercury	124377-03-06 11:29 G	47148890.84	47148890.98	47148891.13	0.0088	0.0019	
Mercury	124377-06-02 13:24 G	47148978.92	47148979.06	47148979.21	0.0088	0.0026	
Mercury	124377-08-29 15:05 G	47149067.00	47149067.13	47149067.28	0.0088	0.0034	
Mercury	124377-11-25 17:00 G	47149155.09	47149155.21	47149155.35	0.0088	0.0041	

Mercury	124378-02-21 18:55 G	47149243.17	47149243.29	47149243.42	0.0088	0.0047
Mercury	124378-05-20 20:36 G	47149331.26	47149331.36	47149331.49	0.0088	0.0055
Mercury	124378-08-16 22:31 G	47149419.34	47149419.44	47149419.55	0.0088	0.0062
Mercury	124378-11-13 00:26 G	47149507.43	47149507.52	47149507.62	0.0088	0.0068
Mercury	124379-02-09 02:07 G	47149595.52	47149595.59	47149595.67	0.0088	0.0076
Mercury	124379-05-08 03:48 G	47149683.62	47149683.66	47149683.72	0.0088	0.0083
Mars	124398-02-08 23:14 G	47156535.21	47156535.47	47156535.77	0.0088	0.0025
Mars	124400-01-03 11:00 G	47157228.94	47157228.96	47157229.04	0.0088	0.0087
Venus	124444-11-20 03:33 G	47173621.59	47173621.65	47173621.71	0.0088	0.0085
Venus	124445-07-03 16:45 G	47173847.11	47173847.20	47173847.34	0.0088	0.0076
Venus	124446-02-14 06:55 G	47174072.66	47174072.79	47174072.96	0.0088	0.0066
Venus	124446-09-27 21:05 G	47174298.21	47174298.38	47174298.56	0.0088	0.0056
Venus	124447-05-11 10:31 G	47174523.77	47174523.94	47174524.15	0.0088	0.0046
Venus	124447-12-23 00:26 G	47174749.33	47174749.52	47174749.74	0.0088	0.0036
Venus	124448-08-04 14:21 G	47174974.90	47174975.10	47174975.33	0.0088	0.0027
Venus	124449-03-18 04:31 G	47175200.47	47175200.69	47175200.91	0.0088	0.0016
Earth	124449-05-08 19:53 G	47175252.23	47175252.33	47175252.44	0.0088	0.0081
Moon	124449-05-08 22:31 G	47175252.40	47175252.44	47175252.54	0.0088	0.0086 *
Venus	124449-10-29 18:26 G	47175426.05	47175426.27	47175426.49	0.0089	0.0007
Moon	124450-05-11 05:29 G	47175619.53	47175619.73	47175619.95	0.0089	0.0054
Earth	124450-05-11 08:36 G	47175619.69	47175619.86	47175620.08	0.0089	0.0059 *
Venus	124450-06-12 08:21 G	47175651.62	47175651.85	47175652.07	0.0089	0.0004
Venus	124451-01-23 22:02 G	47175877.21	47175877.42	47175877.65	0.0089	0.0014
Earth	124451-05-13 21:48 G	47175987.19	47175987.41	47175987.67	0.0089	0.0036
Moon	124451-05-14 01:38 G	47175987.35	47175987.57	47175987.82	0.0089	0.0040 *
Venus	124451-09-06 11:57 G	47176102.79	47176103.00	47176103.22	0.0089	0.0023
Venus	124452-04-19 01:38 G	47176328.38	47176328.57	47176328.80	0.0089	0.0034
Moon	124452-05-15 08:50 G	47176354.62	47176354.87	47176355.13	0.0089	0.0008
Earth	124452-05-15 11:14 G	47176354.72	47176354.97	47176355.24	0.0089	0.0013 *
Venus	124452-11-30 15:19 G	47176553.97	47176554.14	47176554.36	0.0089	0.0044

Earth	124453-05-18 00:26 G	47176722.26	47176722.52	47176722.78	0.0089	0.0011
Moon	124453-05-18 02:21 G	47176722.33	47176722.60	47176722.87	0.0089	0.0007 *
Venus	124453-07-14 05:43 G	47176779.56	47176779.74	47176779.92	0.0089	0.0053
Venus	124454-02-24 19:24 G	47177005.17	47177005.31	47177005.48	0.0089	0.0063
Moon	124454-05-20 12:55 G	47177089.81	47177090.04	47177090.27	0.0089	0.0038
Earth	124454-05-20 13:09 G	47177089.82	47177090.05	47177090.31	0.0089	0.0034 *
Venus	124454-10-08 09:19 G	47177230.78	47177230.89	47177231.03	0.0089	0.0073
Venus	124455-05-21 22:45 G	47177456.40	47177456.45	47177456.56	0.0089	0.0083
Moon	124455-05-23 00:55 G	47177457.34	47177457.54	47177457.77	0.0089	0.0053
Earth	124455-05-23 02:07 G	47177457.41	47177457.59	47177457.81	0.0089	0.0057 *
Earth	124456-05-24 14:50 G	47177825.04	47177825.12	47177825.26	0.0089	0.0080
Moon	124456-05-24 17:00 G	47177825.15	47177825.21	47177825.32	0.0089	0.0084 *
Mercury	124457-06-19 23:00 G	47178216.41	47178216.46	47178216.52	0.0089	0.0083
Mercury	124457-09-16 00:55 G	47178304.48	47178304.54	47178304.64	0.0089	0.0076
Mercury	124457-12-13 03:19 G	47178392.55	47178392.64	47178392.76	0.0089	0.0068
Mercury	124458-03-11 05:57 G	47178480.64	47178480.75	47178480.88	0.0089	0.0060
Mercury	124458-06-07 08:21 G	47178568.72	47178568.85	47178568.99	0.0089	0.0052
Mercury	124458-09-03 10:45 G	47178656.81	47178656.95	47178657.10	0.0089	0.0044
Mercury	124458-11-30 12:55 G	47178744.90	47178745.04	47178745.20	0.0089	0.0037
Mercury	124459-02-26 15:33 G	47178833.00	47178833.15	47178833.31	0.0089	0.0029
Mercury	124459-05-25 17:57 G	47178921.09	47178921.25	47178921.42	0.0089	0.0021
Mercury	124459-08-21 20:21 G	47179009.19	47179009.35	47179009.52	0.0089	0.0013
Mercury	124459-11-17 23:00 G	47179097.29	47179097.46	47179097.62	0.0089	0.0005
Mercury	124460-02-14 01:24 G	47179185.39	47179185.56	47179185.73	0.0089	0.0004
Mercury	124460-05-12 03:48 G	47179273.50	47179273.66	47179273.83	0.0089	0.0012
Mercury	124460-08-08 06:12 G	47179361.60	47179361.76	47179361.93	0.0089	0.0020
Mercury	124460-11-04 08:36 G	47179449.71	47179449.86	47179450.03	0.0089	0.0028
Mercury	124461-01-31 11:14 G	47179537.82	47179537.97	47179538.13	0.0089	0.0036
Mercury	124461-04-29 13:53 G	47179625.93	47179626.08	47179626.22	0.0089	0.0044
Mercury	124461-07-26 16:02 G	47179714.05	47179714.17	47179714.32	0.0089	0.0053

Mercury	124461-10-22 18:41 G	47179802.17	47179802.28	47179802.41	0.0089	0.0061
Mercury	124462-01-18 21:19 G	47179890.29	47179890.39	47179890.50	0.0089	0.0069
Mercury	124462-04-16 23:29 G	47179978.42	47179978.48	47179978.58	0.0089	0.0078
Mercury	124462-07-14 02:21 G	47180066.57	47180066.60	47180066.65	0.0089	0.0086
Jupiter	124465-06-26 17:14 G	47181144.68	47181145.22	47181145.78	0.0089	0.0023
Mars	124481-11-21 15:05 G	47187136.85	47187137.13	47187137.45	0.0090	0.0043
Venus	124525-10-13 13:24 G	47203167.99	47203168.06	47203168.13	0.0089	0.0083
Venus	124526-05-27 01:09 G	47203393.45	47203393.55	47203393.68	0.0089	0.0074
Venus	124527-01-07 13:09 G	47203618.93	47203619.05	47203619.22	0.0089	0.0065
Venus	124527-08-21 01:53 G	47203844.42	47203844.58	47203844.76	0.0089	0.0055
Venus	124528-04-02 13:53 G	47204069.91	47204070.08	47204070.28	0.0089	0.0046
Venus	124528-11-14 02:21 G	47204295.41	47204295.60	47204295.80	0.0089	0.0036
Venus	124529-06-27 14:21 G	47204520.91	47204521.10	47204521.32	0.0089	0.0027
Venus	124530-02-08 02:50 G	47204746.41	47204746.62	47204746.84	0.0089	0.0017
Venus	124530-09-21 15:05 G	47204971.92	47204972.13	47204972.35	0.0089	0.0008
Moon	124530-11-06 07:38 G	47205017.67	47205017.82	47205018.00	0.0089	0.0064
Earth	124530-11-06 09:05 G	47205017.72	47205017.88	47205018.05	0.0089	0.0068 *
Venus	124531-05-05 03:33 G	47205197.43	47205197.65	47205197.86	0.0089	0.0003
Moon	124531-11-08 18:12 G	47205385.07	47205385.26	47205385.50	0.0089	0.0051
Earth	124531-11-08 19:09 G	47205385.10	47205385.30	47205385.53	0.0089	0.0046 *
Venus	124531-12-16 15:33 G	47205422.94	47205423.15	47205423.37	0.0089	0.0012
Venus	124532-07-29 03:33 G	47205648.45	47205648.65	47205648.87	0.0089	0.0022
Earth	124532-11-10 05:29 G	47205752.50	47205752.73	47205752.99	0.0089	0.0024
Moon	124532-11-10 07:38 G	47205752.58	47205752.82	47205753.07	0.0089	0.0019 *
Venus	124533-03-11 15:48 G	47205873.97	47205874.16	47205874.37	0.0089	0.0031
Venus	124533-10-23 03:48 G	47206099.49	47206099.66	47206099.87	0.0089	0.0041
Moon	124533-11-12 13:09 G	47206119.80	47206120.05	47206120.31	0.0089	0.0006
Earth	124533-11-12 16:02 G	47206119.92	47206120.17	47206120.43	0.0089	0.0001 *
Venus	124534-06-05 16:17 G	47206325.01	47206325.18	47206325.36	0.0089	0.0050
Earth	124534-11-15 02:07 G	47206487.35	47206487.59	47206487.85	0.0089	0.0022

Moon	124534-11-15 05:43 G	47206487.51	47206487.74	47206487.99	0.0089	0.0027	*
Venus	124535-01-17 04:02 G	47206550.53	47206550.67	47206550.85	0.0089	0.0060	
Venus	124535-08-30 16:31 G	47206776.07	47206776.19	47206776.34	0.0089	0.0069	
Moon	124535-11-17 09:19 G	47206854.67	47206854.89	47206855.12	0.0089	0.0039	
Earth	124535-11-17 12:12 G	47206854.81	47206855.01	47206855.25	0.0089	0.0044	*
Venus	124536-04-12 05:00 G	47207001.61	47207001.71	47207001.81	0.0089	0.0078	
Earth	124536-11-18 22:31 G	47207222.29	47207222.44	47207222.62	0.0089	0.0066	
Moon	124536-11-19 01:24 G	47207222.42	47207222.56	47207222.74	0.0089	0.0071	*
Venus	124536-11-23 16:31 G	47207227.18	47207227.19	47207227.25	0.0089	0.0088	
Moon	124537-11-21 07:09 G	47207589.75	47207589.80	47207589.91	0.0089	0.0084	
Earth	124537-11-21 08:50 G	47207589.87	47207589.87	47207589.91	0.0089	0.0088	*
Mercury	124538-04-21 05:29 G	47207740.73	47207740.73	47207740.77	0.0089	0.0088	
Mercury	124538-07-18 07:53 G	47207828.77	47207828.83	47207828.90	0.0089	0.0080	
Mercury	124538-10-14 09:33 G	47207916.83	47207916.90	47207917.00	0.0089	0.0073	
Mercury	124539-01-10 11:43 G	47208004.90	47208004.99	47208005.10	0.0089	0.0065	
Mercury	124539-04-08 13:38 G	47208092.97	47208093.07	47208093.20	0.0089	0.0058	
Mercury	124539-07-05 15:48 G	47208181.04	47208181.16	47208181.29	0.0089	0.0050	
Mercury	124539-10-01 17:43 G	47208269.11	47208269.24	47208269.38	0.0088	0.0043	
Mercury	124539-12-28 19:38 G	47208357.19	47208357.32	47208357.47	0.0088	0.0035	
Mercury	124540-03-25 21:48 G	47208445.26	47208445.41	47208445.55	0.0088	0.0028	
Mercury	124540-06-21 23:43 G	47208533.34	47208533.49	47208533.64	0.0088	0.0020	
Mercury	124540-09-18 01:38 G	47208621.42	47208621.57	47208621.72	0.0088	0.0013	
Mercury	124540-12-15 03:33 G	47208709.50	47208709.65	47208709.80	0.0088	0.0006	
Mercury	124541-03-13 05:29 G	47208797.58	47208797.73	47208797.88	0.0088	0.0002	
Mercury	124541-06-09 07:24 G	47208885.66	47208885.81	47208885.96	0.0088	0.0009	
Mercury	124541-09-05 09:05 G	47208973.74	47208973.88	47208974.04	0.0088	0.0017	
Mercury	124541-12-02 11:00 G	47209061.82	47209061.96	47209062.11	0.0088	0.0023	
Mercury	124542-02-28 12:55 G	47209149.90	47209150.04	47209150.18	0.0088	0.0030	
Mercury	124542-05-27 14:50 G	47209237.99	47209238.12	47209238.26	0.0088	0.0038	
Mercury	124542-08-23 16:31 G	47209326.07	47209326.19	47209326.33	0.0088	0.0045	



Mercury	124542-11-19 18:26 G	47209414.15	47209414.27	47209414.40	0.0088	0.0052
Mercury	124543-02-15 20:21 G	47209502.24	47209502.35	47209502.46	0.0088	0.0059
Mercury	124543-05-14 22:17 G	47209590.33	47209590.43	47209590.53	0.0088	0.0066
Mercury	124543-08-10 23:57 G	47209678.42	47209678.50	47209678.59	0.0088	0.0073
Mercury	124543-11-07 01:53 G	47209766.52	47209766.58	47209766.64	0.0088	0.0080
Mercury	124544-02-03 03:33 G	47209854.63	47209854.65	47209854.68	0.0088	0.0087
Mars	124561-09-25 15:33 G	47216299.01	47216299.15	47216299.36	0.0088	0.0070
Mars	124563-08-20 03:05 G	47216992.39	47216992.63	47216992.90	0.0088	0.0041
Venus	124609-02-23 13:09 G	47233616.03	47233616.05	47233616.13	0.0088	0.0087
Venus	124609-10-07 03:19 G	47233841.55	47233841.64	47233841.77	0.0088	0.0077
Venus	124610-05-20 17:14 G	47234067.09	47234067.22	47234067.38	0.0088	0.0067
Venus	124611-01-01 07:09 G	47234292.64	47234292.80	47234292.98	0.0088	0.0057
Venus	124611-08-14 20:50 G	47234518.20	47234518.37	47234518.58	0.0088	0.0047
Venus	124612-03-27 10:45 G	47234743.76	47234743.95	47234744.17	0.0088	0.0038
Venus	124612-11-08 00:40 G	47234969.33	47234969.53	47234969.75	0.0088	0.0028
Venus	124613-06-21 14:36 G	47235194.89	47235195.11	47235195.34	0.0089	0.0018
Venus	124614-02-02 04:31 G	47235420.47	47235420.69	47235420.92	0.0089	0.0008
Moon	124614-05-12 13:52 G	47235519.94	47235520.08	47235520.26	0.0089	0.0070
Earth	124614-05-12 17:28 G	47235520.09	47235520.23	47235520.42	0.0089	0.0068 *
Venus	124614-09-15 18:26 G	47235646.05	47235646.27	47235646.50	0.0089	0.0003
Venus	124615-04-29 08:07 G	47235871.63	47235871.84	47235872.07	0.0089	0.0013
Earth	124615-05-15 06:40 G	47235887.57	47235887.78	47235888.02	0.0089	0.0045
Moon	124615-05-15 09:19 G	47235887.67	47235887.89	47235888.14	0.0089	0.0043 *
Venus	124615-12-10 21:48 G	47236097.21	47236097.41	47236097.64	0.0089	0.0023
Moon	124616-05-16 17:57 G	47236255.02	47236255.25	47236255.51	0.0089	0.0024
Earth	124616-05-16 20:07 G	47236255.09	47236255.34	47236255.60	0.0089	0.0022 *
Venus	124616-07-23 11:57 G	47236322.79	47236323.00	47236323.21	0.0089	0.0032
Venus	124617-03-06 01:52 G	47236548.39	47236548.58	47236548.78	0.0089	0.0042
Earth	124617-05-19 09:04 G	47236622.62	47236622.88	47236623.14	0.0089	0.0002
Moon	124617-05-19 09:33 G	47236622.63	47236622.90	47236623.18	0.0089	0.0004 *

Venus	124617-10-17 15:33 G	47236773.98	47236774.15	47236774.35	0.0089	0.0052
Earth	124618-05-21 21:48 G	47236990.18	47236990.41	47236990.68	0.0089	0.0025
Moon	124618-05-21 23:14 G	47236990.24	47236990.47	47236990.73	0.0089	0.0022 *
Venus	124618-05-31 05:14 G	47236999.58	47236999.72	47236999.90	0.0089	0.0062
Venus	124619-01-11 19:09 G	47237225.19	47237225.30	47237225.45	0.0089	0.0072
Moon	124619-05-24 09:19 G	47237357.67	47237357.89	47237358.12	0.0089	0.0049
Earth	124619-05-24 11:14 G	47237357.76	47237357.97	47237358.20	0.0089	0.0047 *
Venus	124619-08-25 08:50 G	47237450.81	47237450.87	47237450.98	0.0089	0.0082
Earth	124620-05-25 23:57 G	47237725.36	47237725.50	47237725.68	0.0089	0.0070
Moon	124620-05-26 03:04 G	47237725.49	47237725.63	47237725.81	0.0089	0.0068 *
Mercury	124621-12-20 19:52 G	47238299.30	47238299.33	47238299.37	0.0089	0.0086
Mercury	124622-03-18 22:02 G	47238387.36	47238387.42	47238387.51	0.0089	0.0079
Mercury	124622-06-15 00:26 G	47238475.44	47238475.52	47238475.63	0.0089	0.0071
Mercury	124622-09-11 02:50 G	47238563.52	47238563.62	47238563.74	0.0089	0.0063
Mercury	124622-12-08 05:14 G	47238651.60	47238651.72	47238651.85	0.0089	0.0055
Mercury	124623-03-06 07:24 G	47238739.69	47238739.81	47238739.96	0.0089	0.0048
Mercury	124623-06-02 09:48 G	47238827.78	47238827.91	47238828.07	0.0089	0.0040
Mercury	124623-08-29 12:26 G	47238915.87	47238916.02	47238916.18	0.0089	0.0032
Mercury	124623-11-25 14:50 G	47239003.97	47239004.12	47239004.28	0.0089	0.0024
Mercury	124624-02-21 17:14 G	47239092.06	47239092.22	47239092.39	0.0089	0.0016
Mercury	124624-05-19 19:52 G	47239180.16	47239180.33	47239180.49	0.0089	0.0008
Mercury	124624-08-15 22:16 G	47239268.26	47239268.43	47239268.59	0.0089	0.0001
Mercury	124624-11-12 00:40 G	47239356.37	47239356.53	47239356.70	0.0089	0.0008
Mercury	124625-02-08 03:04 G	47239444.47	47239444.63	47239444.80	0.0089	0.0017
Mercury	124625-05-07 05:28 G	47239532.58	47239532.73	47239532.90	0.0089	0.0025
Mercury	124625-08-03 07:52 G	47239620.68	47239620.83	47239620.99	0.0089	0.0033
Mercury	124625-10-30 10:31 G	47239708.80	47239708.94	47239709.09	0.0089	0.0041
Mercury	124626-01-26 12:55 G	47239796.91	47239797.04	47239797.19	0.0089	0.0049
Mercury	124626-04-24 15:33 G	47239885.03	47239885.15	47239885.28	0.0089	0.0057
Mercury	124626-07-21 17:43 G	47239973.15	47239973.24	47239973.37	0.0089	0.0066

Mercury	124626-10-17 20:21 G	47240061.27	47240061.35	47240061.46	0.0089	0.0074
Mercury	124627-01-13 23:14 G	47240149.41	47240149.47	47240149.53	0.0089	0.0082
Jupiter	124631-09-01 22:31 G	47241841.34	47241841.44	47241841.67	0.0089	0.0086
Mars	124645-07-07 01:38 G	47246898.24	47246898.57	47246898.91	0.0090	0.0016
Venus	124690-01-16 00:40 G	47263162.50	47263162.53	47263162.62	0.0089	0.0085
Venus	124690-08-29 13:24 G	47263387.96	47263388.06	47263388.18	0.0089	0.0075
Venus	124691-04-12 01:24 G	47263613.43	47263613.56	47263613.72	0.0089	0.0066
Venus	124691-11-23 13:52 G	47263838.92	47263839.08	47263839.25	0.0089	0.0056
Venus	124692-07-06 01:38 G	47264064.41	47264064.57	47264064.77	0.0089	0.0047
Venus	124693-02-16 14:07 G	47264289.90	47264290.09	47264290.29	0.0089	0.0037
Venus	124693-09-30 02:21 G	47264515.40	47264515.60	47264515.81	0.0089	0.0028
Venus	124694-05-13 14:36 G	47264740.90	47264741.11	47264741.33	0.0089	0.0018
Earth	124694-11-06 19:38 G	47264918.21	47264918.32	47264918.45	0.0089	0.0077
Moon	124694-11-06 20:21 G	47264918.22	47264918.35	47264918.47	0.0089	0.0076 *
Venus	124694-12-25 02:50 G	47264966.41	47264966.62	47264966.84	0.0089	0.0009
Venus	124695-08-07 15:19 G	47265191.92	47265192.14	47265192.35	0.0089	0.0002
Moon	124695-11-09 04:02 G	47265285.49	47265285.67	47265285.90	0.0089	0.0056
Earth	124695-11-09 05:43 G	47265285.56	47265285.74	47265285.96	0.0089	0.0055 *
Venus	124696-03-20 03:19 G	47265417.43	47265417.64	47265417.86	0.0089	0.0011
Venus	124696-10-31 15:19 G	47265642.94	47265643.14	47265643.36	0.0089	0.0021
Earth	124696-11-10 16:16 G	47265652.96	47265653.18	47265653.43	0.0089	0.0033
Moon	124696-11-10 18:55 G	47265653.07	47265653.29	47265653.53	0.0089	0.0031 *
Venus	124697-06-14 03:33 G	47265868.46	47265868.65	47265868.86	0.0089	0.0030
Moon	124697-11-12 23:14 G	47266020.22	47266020.47	47266020.73	0.0089	0.0011
Earth	124697-11-13 03:04 G	47266020.37	47266020.63	47266020.88	0.0089	0.0010 *
Venus	124698-01-25 15:33 G	47266093.98	47266094.15	47266094.36	0.0089	0.0040
Venus	124698-09-08 04:02 G	47266319.51	47266319.67	47266319.86	0.0089	0.0049
Earth	124698-11-15 12:55 G	47266387.79	47266388.04	47266388.30	0.0089	0.0012
Moon	124698-11-15 16:16 G	47266387.93	47266388.18	47266388.44	0.0089	0.0013 *
Venus	124699-04-21 16:02 G	47266545.03	47266545.17	47266545.35	0.0089	0.0059

Moon	124699-11-17 19:52 G	47266755.12	47266755.33	47266755.58	0.0089	0.0034
Earth	124699-11-17 23:14 G	47266755.25	47266755.47	47266755.71	0.0089	0.0035 *
Venus	124699-12-03 04:16 G	47266770.56	47266770.68	47266770.84	0.0089	0.0068
Venus	124700-07-16 16:16 G	47266996.10	47266996.18	47266996.31	0.0089	0.0078
Earth	124700-11-20 09:33 G	47267122.71	47267122.90	47267123.10	0.0089	0.0057
Moon	124700-11-20 11:14 G	47267122.79	47267122.97	47267123.19	0.0089	0.0057 *
Venus	124701-02-27 04:31 G	47267221.67	47267221.69	47267221.76	0.0089	0.0087
Moon	124701-11-22 18:55 G	47267490.21	47267490.29	47267490.43	0.0089	0.0080
Earth	124701-11-22 19:52 G	47267490.23	47267490.33	47267490.45	0.0089	0.0079 *
Mercury	124703-01-18 05:14 G	47267911.68	47267911.72	47267911.78	0.0089	0.0083
Mercury	124703-04-16 07:09 G	47267999.73	47267999.80	47267999.89	0.0089	0.0076
Mercury	124703-07-13 09:19 G	47268087.80	47268087.89	47268088.00	0.0089	0.0068
Mercury	124703-10-09 11:14 G	47268175.87	47268175.97	47268176.09	0.0089	0.0061
Mercury	124704-01-05 13:24 G	47268263.94	47268264.06	47268264.19	0.0089	0.0053
Mercury	124704-04-02 15:19 G	47268352.01	47268352.14	47268352.28	0.0088	0.0045
Mercury	124704-06-29 17:28 G	47268440.09	47268440.23	47268440.36	0.0088	0.0038
Mercury	124704-09-25 19:09 G	47268528.17	47268528.30	47268528.45	0.0088	0.0031
Mercury	124704-12-22 21:04 G	47268616.24	47268616.38	47268616.54	0.0088	0.0024
Mercury	124705-03-20 23:14 G	47268704.32	47268704.47	47268704.62	0.0088	0.0016
Mercury	124705-06-17 01:09 G	47268792.40	47268792.55	47268792.70	0.0088	0.0009
Mercury	124705-09-13 03:04 G	47268880.48	47268880.63	47268880.78	0.0088	0.0001
Mercury	124705-12-10 05:00 G	47268968.56	47268968.71	47268968.86	0.0088	0.0006
Mercury	124706-03-08 06:55 G	47269056.64	47269056.79	47269056.94	0.0088	0.0013
Mercury	124706-06-04 08:50 G	47269144.72	47269144.87	47269145.01	0.0088	0.0021
Mercury	124706-08-31 10:45 G	47269232.80	47269232.95	47269233.09	0.0088	0.0028
Mercury	124706-11-27 12:12 G	47269320.89	47269321.01	47269321.16	0.0088	0.0036
Mercury	124707-02-23 14:07 G	47269408.97	47269409.09	47269409.23	0.0088	0.0043
Mercury	124707-05-22 16:02 G	47269497.06	47269497.17	47269497.30	0.0088	0.0049
Mercury	124707-08-18 17:57 G	47269585.14	47269585.25	47269585.37	0.0088	0.0056
Mercury	124707-11-14 19:38 G	47269673.23	47269673.32	47269673.44	0.0088	0.0064

Mercury	124708-02-10 21:33 G	47269761.32	47269761.40	47269761.50	0.0088	0.0070
Mercury	124708-05-08 23:14 G	47269849.42	47269849.47	47269849.56	0.0088	0.0078
Mercury	124708-08-05 01:09 G	47269937.52	47269937.55	47269937.61	0.0088	0.0084
Mars	124727-04-06 18:26 G	47276755.98	47276756.27	47276756.56	0.0088	0.0004
Venus	124773-05-28 23:14 G	47293610.46	47293610.47	47293610.53	0.0088	0.0088
Venus	124774-01-09 13:24 G	47293835.97	47293836.06	47293836.18	0.0088	0.0078
Venus	124774-08-23 03:33 G	47294061.51	47294061.65	47294061.80	0.0088	0.0068
Venus	124775-04-05 17:28 G	47294287.07	47294287.23	47294287.41	0.0088	0.0058
Venus	124775-11-17 06:55 G	47294512.62	47294512.79	47294513.00	0.0088	0.0049
Venus	124776-06-29 21:04 G	47294738.19	47294738.38	47294738.59	0.0088	0.0038
Venus	124777-02-10 11:00 G	47294963.76	47294963.96	47294964.19	0.0088	0.0029
Venus	124777-09-24 00:55 G	47295189.33	47295189.54	47295189.77	0.0088	0.0019
Venus	124778-05-07 14:50 G	47295414.90	47295415.12	47295415.35	0.0089	0.0009
Moon	124778-05-12 23:28 G	47295420.41	47295420.48	47295420.61	0.0089	0.0082
Earth	124778-05-13 02:50 G	47295420.51	47295420.62	47295420.77	0.0089	0.0077 *
Venus	124778-12-19 04:45 G	47295640.48	47295640.70	47295640.93	0.0089	0.0002
Earth	124779-05-15 16:16 G	47295787.98	47295788.18	47295788.39	0.0089	0.0054
Moon	124779-05-15 18:26 G	47295788.07	47295788.27	47295788.51	0.0089	0.0050 *
Venus	124779-08-01 18:26 G	47295866.05	47295866.27	47295866.50	0.0089	0.0012
Venus	124780-03-14 08:21 G	47296091.64	47296091.85	47296092.08	0.0089	0.0022
Moon	124780-05-17 04:16 G	47296155.45	47296155.68	47296155.92	0.0089	0.0036
Earth	124780-05-17 04:45 G	47296155.48	47296155.70	47296155.97	0.0089	0.0032 *
Venus	124780-10-25 22:02 G	47296317.23	47296317.42	47296317.65	0.0089	0.0032
Moon	124781-05-19 17:43 G	47296522.97	47296523.24	47296523.51	0.0089	0.0004
Earth	124781-05-19 18:12 G	47296523.01	47296523.26	47296523.53	0.0089	0.0009 *
Venus	124781-06-08 12:12 G	47296542.81	47296543.01	47296543.21	0.0089	0.0041
Venus	124782-01-20 01:52 G	47296768.41	47296768.58	47296768.77	0.0089	0.0051
Earth	124782-05-22 07:24 G	47296890.56	47296890.81	47296891.07	0.0089	0.0015
Moon	124782-05-22 08:50 G	47296890.62	47296890.87	47296891.12	0.0089	0.0010 *
Venus	124782-09-02 15:48 G	47296994.01	47296994.16	47296994.33	0.0089	0.0061

Venus	124783-04-16 05:28 G	47297219.62	47297219.73	47297219.88	0.0089	0.0071
Moon	124783-05-24 17:00 G	47297258.00	47297258.21	47297258.47	0.0089	0.0043
Earth	124783-05-24 20:21 G	47297258.12	47297258.35	47297258.60	0.0089	0.0038 *
Venus	124783-11-27 19:09 G	47297445.24	47297445.30	47297445.42	0.0089	0.0081
Earth	124784-05-26 09:04 G	47297625.71	47297625.88	47297626.09	0.0089	0.0061
Moon	124784-05-26 12:26 G	47297625.85	47297626.02	47297626.25	0.0089	0.0057 *
Moon	124785-05-28 18:40 G	47297993.27	47297993.28	47297993.33	0.0089	0.0088
Earth	124785-05-28 22:45 G	47297993.36	47297993.45	47297993.53	0.0089	0.0083
Mercury	124786-09-17 19:24 G	47298470.25	47298470.31	47298470.38	0.0089	0.0081
Mercury	124786-12-14 21:19 G	47298558.32	47298558.39	47298558.50	0.0089	0.0074
Mercury	124787-03-12 23:57 G	47298646.40	47298646.50	47298646.62	0.0089	0.0066
Mercury	124787-06-09 02:21 G	47298734.48	47298734.60	47298734.73	0.0089	0.0058
Mercury	124787-09-05 04:45 G	47298822.57	47298822.70	47298822.84	0.0089	0.0050
Mercury	124787-12-02 07:09 G	47298910.66	47298910.80	47298910.95	0.0089	0.0042
Mercury	124788-02-28 09:19 G	47298998.75	47298998.89	47298999.05	0.0089	0.0035
Mercury	124788-05-26 11:43 G	47299086.84	47299086.99	47299087.16	0.0089	0.0027
Mercury	124788-08-22 14:21 G	47299174.94	47299175.10	47299175.26	0.0089	0.0019
Mercury	124788-11-18 16:45 G	47299263.04	47299263.20	47299263.37	0.0089	0.0011
Mercury	124789-02-14 19:09 G	47299351.14	47299351.30	47299351.47	0.0089	0.0003
Mercury	124789-05-13 21:33 G	47299439.24	47299439.40	47299439.57	0.0089	0.0006
Mercury	124789-08-09 23:57 G	47299527.34	47299527.50	47299527.67	0.0089	0.0014
Mercury	124789-11-06 02:21 G	47299615.45	47299615.60	47299615.77	0.0089	0.0022
Mercury	124790-02-02 04:45 G	47299703.55	47299703.70	47299703.87	0.0089	0.0030
Mercury	124790-05-01 07:24 G	47299791.66	47299791.81	47299791.96	0.0089	0.0038
Mercury	124790-07-28 09:48 G	47299879.78	47299879.91	47299880.06	0.0089	0.0046
Mercury	124790-10-24 12:26 G	47299967.89	47299968.02	47299968.15	0.0089	0.0054
Mercury	124791-01-20 14:36 G	47300056.01	47300056.11	47300056.24	0.0089	0.0063
Mercury	124791-04-18 17:14 G	47300144.13	47300144.22	47300144.33	0.0089	0.0071
Mercury	124791-07-15 19:52 G	47300232.26	47300232.33	47300232.41	0.0089	0.0079
Mercury	124791-10-11 22:31 G	47300320.42	47300320.44	47300320.47	0.0089	0.0087

Mars	124809-02-18 11:00 G	47306659.78	47306659.96	47306660.15	0.0090	0.0075
Mars	124811-01-15 23:43 G	47307356.26	47307356.49	47307356.72	0.0090	0.0067
Venus	124854-04-20 13:52 G	47323157.02	47323157.08	47323157.13	0.0089	0.0086
Venus	124854-12-02 01:38 G	47323382.47	47323382.57	47323382.69	0.0089	0.0076
Venus	124855-07-15 13:38 G	47323607.95	47323608.07	47323608.23	0.0089	0.0067
Venus	124856-02-26 02:07 G	47323833.43	47323833.59	47323833.76	0.0089	0.0057
Venus	124856-10-08 13:52 G	47324058.92	47324059.08	47324059.28	0.0089	0.0048
Venus	124857-05-22 02:21 G	47324284.41	47324284.60	47324284.80	0.0089	0.0038
Venus	124858-01-02 14:21 G	47324509.91	47324510.10	47324510.32	0.0089	0.0029
Venus	124858-08-16 02:50 G	47324735.41	47324735.62	47324735.83	0.0089	0.0019
Earth	124858-11-07 06:40 G	47324818.74	47324818.78	47324818.86	0.0089	0.0086
Venus	124859-03-29 15:04 G	47324960.92	47324961.13	47324961.35	0.0089	0.0009
Moon	124859-11-09 14:36 G	47325185.95	47325186.11	47325186.33	0.0089	0.0060
Earth	124859-11-09 17:00 G	47325186.05	47325186.21	47325186.40	0.0089	0.0064 *
Venus	124859-11-10 03:19 G	47325186.42	47325186.64	47325186.85	0.0089	0.0001
Venus	124860-06-22 15:19 G	47325411.93	47325412.14	47325412.36	0.0089	0.0010
Earth	124860-11-11 03:19 G	47325553.43	47325553.64	47325553.88	0.0089	0.0042
Moon	124860-11-11 06:55 G	47325553.58	47325553.79	47325554.01	0.0089	0.0046 *
Venus	124861-02-03 03:19 G	47325637.44	47325637.64	47325637.86	0.0089	0.0020
Venus	124861-09-16 15:48 G	47325862.96	47325863.16	47325863.37	0.0089	0.0029
Moon	124861-11-13 10:31 G	47325920.69	47325920.94	47325921.20	0.0089	0.0015
Earth	124861-11-13 13:38 G	47325920.84	47325921.07	47325921.33	0.0089	0.0020 *
Venus	124862-04-30 03:48 G	47326088.48	47326088.66	47326088.87	0.0089	0.0039
Earth	124862-11-16 00:12 G	47326288.26	47326288.51	47326288.77	0.0089	0.0004
Moon	124862-11-16 03:48 G	47326288.41	47326288.66	47326288.92	0.0089	0.0002 *
Venus	124862-12-11 16:02 G	47326314.00	47326314.17	47326314.36	0.0089	0.0048
Venus	124863-07-25 04:02 G	47326539.53	47326539.67	47326539.86	0.0089	0.0058
Moon	124863-11-18 08:21 G	47326655.62	47326655.85	47326656.09	0.0089	0.0030
Earth	124863-11-18 10:31 G	47326655.71	47326655.94	47326656.19	0.0089	0.0026 *
Venus	124864-03-06 16:31 G	47326765.06	47326765.19	47326765.34	0.0089	0.0067

Venus	124864-10-18 04:31 G	47326990.60	47326990.69	47326990.82	0.0089	0.0077
Earth	124864-11-19 20:36 G	47327023.16	47327023.36	47327023.59	0.0089	0.0048
Moon	124864-11-19 22:02 G	47327023.21	47327023.42	47327023.67	0.0089	0.0044 *
Venus	124865-05-31 16:45 G	47327216.17	47327216.20	47327216.27	0.0089	0.0086
Earth	124865-11-22 06:55 G	47327390.65	47327390.79	47327390.96	0.0089	0.0070
Moon	124865-11-22 06:40 G	47327390.67	47327390.78	47327390.93	0.0089	0.0075 *
Moon	124866-11-24 14:50 G	47327758.11	47327758.12	47327758.20	0.0089	0.0088
Mercury	124867-07-19 02:50 G	47327994.59	47327994.62	47327994.66	0.0089	0.0086
Mercury	124867-10-15 04:31 G	47328082.64	47328082.69	47328082.78	0.0089	0.0079
Mercury	124868-01-11 06:55 G	47328170.70	47328170.79	47328170.89	0.0089	0.0071
Mercury	124868-04-08 08:36 G	47328258.77	47328258.86	47328258.98	0.0089	0.0064
Mercury	124868-07-05 10:45 G	47328346.84	47328346.95	47328347.08	0.0089	0.0056
Mercury	124868-10-01 12:40 G	47328434.92	47328435.03	47328435.17	0.0089	0.0049
Mercury	124868-12-28 14:50 G	47328522.99	47328523.12	47328523.26	0.0089	0.0041
Mercury	124869-03-26 16:45 G	47328611.07	47328611.20	47328611.35	0.0089	0.0034
Mercury	124869-06-22 18:40 G	47328699.14	47328699.28	47328699.43	0.0088	0.0027
Mercury	124869-09-18 20:50 G	47328787.22	47328787.37	47328787.52	0.0088	0.0019
Mercury	124869-12-15 22:45 G	47328875.30	47328875.45	47328875.60	0.0088	0.0011
Mercury	124870-03-14 00:40 G	47328963.38	47328963.53	47328963.68	0.0088	0.0004
Mercury	124870-06-10 02:36 G	47329051.46	47329051.61	47329051.76	0.0088	0.0003
Mercury	124870-09-06 04:31 G	47329139.54	47329139.69	47329139.84	0.0088	0.0010
Mercury	124870-12-03 06:26 G	47329227.62	47329227.77	47329227.92	0.0088	0.0018
Mercury	124871-03-01 08:21 G	47329315.70	47329315.85	47329315.99	0.0088	0.0025
Mercury	124871-05-28 10:02 G	47329403.79	47329403.92	47329404.07	0.0088	0.0032
Mercury	124871-08-24 11:57 G	47329491.87	47329492.00	47329492.14	0.0088	0.0039
Mercury	124871-11-20 13:52 G	47329579.96	47329580.08	47329580.21	0.0088	0.0046
Mercury	124872-02-16 15:33 G	47329668.04	47329668.15	47329668.28	0.0088	0.0054
Mercury	124872-05-14 17:28 G	47329756.13	47329756.23	47329756.35	0.0088	0.0061
Mercury	124872-08-10 19:24 G	47329844.22	47329844.31	47329844.41	0.0088	0.0068
Mercury	124872-11-06 21:04 G	47329932.31	47329932.38	47329932.47	0.0088	0.0075



Mercury	124873-02-02 23:00 G	47330020.41	47330020.46	47330020.52	0.0088	0.0082
Jupiter	124874-05-29 10:31 G	47330500.61	47330500.94	47330501.38	0.0088	0.0060
Mars	124890-11-20 11:28 G	47336519.75	47336519.98	47336520.23	0.0088	0.0049
Mars	124892-10-13 22:02 G	47337213.22	47337213.42	47337213.63	0.0088	0.0062
Venus	124937-08-31 09:48 G	47353604.91	47353604.91	47353604.92	0.0088	0.0088
Venus	124938-04-13 23:28 G	47353830.40	47353830.48	47353830.60	0.0088	0.0079
Venus	124938-11-25 13:38 G	47354055.93	47354056.07	47354056.21	0.0088	0.0069
Venus	124939-07-09 03:04 G	47354281.49	47354281.63	47354281.82	0.0088	0.0060
Venus	124940-02-19 17:14 G	47354507.05	47354507.22	47354507.43	0.0088	0.0050
Venus	124940-10-02 07:09 G	47354732.62	47354732.80	47354733.02	0.0088	0.0040
Venus	124941-05-15 21:19 G	47354958.18	47354958.39	47354958.61	0.0088	0.0029
Venus	124941-12-27 11:00 G	47355183.75	47355183.96	47355184.19	0.0088	0.0020
Moon	124942-05-13 08:36 G	47355320.83	47355320.86	47355320.94	0.0088	0.0087
Earth	124942-05-13 11:43 G	47355320.95	47355320.99	47355321.07	0.0088	0.0086
Venus	124942-08-10 01:09 G	47355409.33	47355409.55	47355409.77	0.0088	0.0010
Venus	124943-03-23 15:04 G	47355634.91	47355635.13	47355635.36	0.0089	0.0001
Earth	124943-05-16 00:26 G	47355688.37	47355688.52	47355688.73	0.0089	0.0064
Moon	124943-05-16 01:52 G	47355688.42	47355688.58	47355688.80	0.0089	0.0064 *
Venus	124943-11-04 04:45 G	47355860.48	47355860.70	47355860.93	0.0089	0.0011
Earth	124944-05-17 13:52 G	47356055.86	47356056.08	47356056.33	0.0089	0.0041
Moon	124944-05-17 13:38 G	47356055.87	47356056.07	47356056.32	0.0089	0.0041 *
Venus	124944-06-16 18:26 G	47356086.06	47356086.27	47356086.50	0.0089	0.0021
Venus	124945-01-28 08:21 G	47356311.65	47356311.85	47356312.07	0.0089	0.0030
Moon	124945-05-20 02:07 G	47356423.33	47356423.59	47356423.86	0.0089	0.0018
Earth	124945-05-20 03:04 G	47356423.38	47356423.63	47356423.89	0.0089	0.0018 *
Venus	124945-09-10 22:16 G	47356537.24	47356537.43	47356537.64	0.0089	0.0040
Venus	124946-04-24 12:12 G	47356762.83	47356763.01	47356763.20	0.0089	0.0050
Earth	124946-05-22 16:16 G	47356790.92	47356791.18	47356791.44	0.0089	0.0005
Moon	124946-05-22 18:55 G	47356791.04	47356791.29	47356791.55	0.0089	0.0006 *
Venus	124946-12-06 01:52 G	47356988.43	47356988.58	47356988.76	0.0089	0.0060

Moon	124947-05-25 02:07 G	47357158.34	47357158.59	47357158.84	0.0089	0.0027
Earth	124947-05-25 05:00 G	47357158.48	47357158.71	47357158.98	0.0089	0.0029 *
Venus	124947-07-19 15:33 G	47357214.03	47357214.15	47357214.31	0.0089	0.0070
Venus	124948-03-01 05:28 G	47357439.65	47357439.73	47357439.85	0.0089	0.0080
Earth	124948-05-26 18:12 G	47357526.05	47357526.26	47357526.48	0.0089	0.0051
Moon	124948-05-26 21:48 G	47357526.21	47357526.41	47357526.63	0.0089	0.0051 *
Moon	124949-05-29 03:33 G	47357893.53	47357893.65	47357893.82	0.0089	0.0073
Earth	124949-05-29 07:09 G	47357893.67	47357893.80	47357893.96	0.0089	0.0074 *
Mercury	124951-03-19 16:31 G	47358553.14	47358553.19	47358553.24	0.0089	0.0084
Mercury	124951-06-15 18:26 G	47358641.21	47358641.27	47358641.37	0.0089	0.0077
Mercury	124951-09-11 20:50 G	47358729.28	47358729.37	47358729.48	0.0089	0.0069
Mercury	124951-12-08 23:14 G	47358817.36	47358817.47	47358817.60	0.0089	0.0061
Mercury	124952-03-06 01:52 G	47358905.45	47358905.58	47358905.71	0.0089	0.0053
Mercury	124952-06-02 03:48 G	47358993.54	47358993.66	47358993.82	0.0089	0.0046
Mercury	124952-08-29 06:12 G	47359081.63	47359081.76	47359081.92	0.0089	0.0038
Mercury	124952-11-25 08:50 G	47359169.72	47359169.87	47359170.03	0.0089	0.0030
Mercury	124953-02-21 11:14 G	47359257.81	47359257.97	47359258.13	0.0089	0.0022
Mercury	124953-05-20 13:38 G	47359345.91	47359346.07	47359346.24	0.0089	0.0014
Mercury	124953-08-16 16:02 G	47359434.01	47359434.17	47359434.34	0.0089	0.0006
Mercury	124953-11-12 18:26 G	47359522.11	47359522.27	47359522.44	0.0089	0.0003
Mercury	124954-02-08 20:50 G	47359610.21	47359610.37	47359610.54	0.0089	0.0011
Mercury	124954-05-07 23:14 G	47359698.32	47359698.47	47359698.64	0.0089	0.0019
Mercury	124954-08-04 01:38 G	47359786.42	47359786.57	47359786.74	0.0089	0.0027
Mercury	124954-10-31 04:02 G	47359874.53	47359874.67	47359874.84	0.0089	0.0035
Mercury	124955-01-27 06:40 G	47359962.64	47359962.78	47359962.93	0.0089	0.0043
Mercury	124955-04-25 09:04 G	47360050.75	47360050.88	47360051.03	0.0089	0.0051
Mercury	124955-07-22 11:43 G	47360138.87	47360138.99	47360139.12	0.0089	0.0059
Mercury	124955-10-18 13:52 G	47360226.99	47360227.08	47360227.21	0.0089	0.0068
Mercury	124956-01-14 16:31 G	47360315.12	47360315.19	47360315.29	0.0089	0.0076
Mercury	124956-04-11 19:09 G	47360403.26	47360403.30	47360403.36	0.0089	0.0084

Mars 124974-08-30 09:33 G 47367117.57 47367117.90 47367118.25 0.0090 0.0009